

Data Path : W:\HPCHEM1\MSVOA F\DATA\VF091615\
 Data File : VF045403.D
 Acq On : 16 Sep 2015 22:00
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 9/17/2015 12:51:41 PM

Quant Time: Sep 17 08:25:57 2015
 Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 16:04:03 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.81	168	1032314	50.00	ug/l	0.00
33) 1,4-Difluorobenzene	5.54	114	1485627	50.00	ug/l	0.00
62) Chlorobenzene-d5	9.71	117	1457411	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	12.50	152	809285	50.00	ug/l	0.00

System Monitoring Compounds

32) 1,2-Dichloroethane-d4	4.77	65	550141	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
34) Dibromofluoromethane	4.04	113	591600	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
49) Toluene-d8	7.50	98	1749814	51.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.22%	
61) 4-Bromofluorobenzene	11.35	95	803950	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.93	85	444237	50.53	ug/l	93
3) Chloromethane	1.02	50	353025	46.90	ug/l	98
4) Vinyl Chloride	1.09	62	298612	46.29	ug/l	91
5) Bromomethane	1.26	94	189321	47.26	ug/l	97
6) Chloroethane	1.34	64	136226	52.99	ug/l	96
7) Trichlorofluoromethane	1.40	101	654495m	49.44	ug/l	
8) Diethyl Ether	1.59	74	132692	47.96	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.78	101	369556	48.51	ug/l	95
10) Methyl Iodide	1.81	142	744552	47.79	ug/l	93
11) Tert butyl alcohol	2.52	59	28515	228.91	ug/l	96
12) 1,1-Dichloroethene	1.71	96	314265	49.66	ug/l	81
13) Acrolein	1.96	56	127713	247.42	ug/l	97
14) Allyl chloride	2.06	41	485165	49.41	ug/l	99
15) Acrylonitrile	2.88	53	263364	221.22	ug/l	96
16) Acetone	2.18	43	467737	185.85	ug/l	98
17) Carbon Disulfide	1.72	76	1006553	46.67	ug/l	96
18) Methyl Acetate	2.30	43	445020	46.10	ug/l	99
19) Methyl tert-butyl Ether	2.38	73	248610	49.92	ug/l #	91
20) Methylene Chloride	2.13	84	305981	44.19	ug/l	96
21) trans-1,2-Dichloroethene	2.26	96	338794	47.75	ug/l	93
22) Diisopropyl ether	2.74	45	990375	47.32	ug/l	99
23) Vinyl Acetate	3.13	43	1488835	243.69	ug/l #	94
24) 1,1-Dichloroethane	2.81	63	705919	49.83	ug/l	99
25) 2-Butanone	4.26	43	711495	202.10	ug/l	98
26) 2,2-Dichloropropane	3.53	77	605814	45.92	ug/l	100
27) cis-1,2-Dichloroethene	3.41	96	561362	51.23	ug/l	98
28) Bromochloromethane	3.65	49	266542	47.91	ug/l #	93
29) Chloroform	3.79	83	1002608	50.35	ug/l	92
30) Cyclohexane	3.63	56	612352	47.90	ug/l	99
31) 1,1,1-Trichloroethane	4.04	97	823483	49.92	ug/l	99
35) 1,1-Dichloropropene	4.21	75	726713	51.56	ug/l	95
36) Ethyl Acetate	4.04	43	332773	46.66	ug/l #	43
37) Carbon Tetrachloride	3.93	117	784691	52.85	ug/l	98
38) Methylcyclohexane	5.40	83	761316	50.25	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzene	4.57	78	1672100	50.75	ug/l	99
40) Methacrylonitrile	4.68	41	156222	46.28	ug/l #	88
41) 1,2-Dichloroethane	4.87	62	669170	50.34	ug/l	92
42) Isopropyl Acetate	6.90	43	459820	48.94	ug/l #	95
43) Trichloroethene	5.44	130	597120	53.06	ug/l	98
44) 1,2-Dichloropropane	6.17	63	475954	49.58	ug/l	97
45) Dibromomethane	6.02	93	336937	49.32	ug/l	93
46) Bromodichloromethane	6.32	83	780281	51.01	ug/l	94
47) Methyl methacrylate	6.67	41	280784	49.23	ug/l	92
48) 1,4-Dioxane	6.65	88	65834	963.69	ug/l #	91
50) 4-Methyl-2-Pentanone	8.20	43	1581122	236.65	ug/l	99
51) Toluene	7.57	92	1294445	50.98	ug/l	99
52) t-1,3-Dichloropropene	8.21	75	720063	52.37	ug/l	92
53) cis-1,3-Dichloropropene	7.25	75	842648	51.90	ug/l	96
54) 1,1,2-Trichloroethane	8.43	97	430892	50.18	ug/l	95
55) Ethyl methacrylate	8.57	69	544516	48.74	ug/l	97
56) 1,3-Dichloropropane	8.78	76	702858	50.18	ug/l	98
58) 2-Hexanone	9.43	43	1200500	225.75	ug/l	97
59) Dibromochloromethane	8.64	129	618999	50.86	ug/l	95
60) 1,2-Dibromoethane	8.92	107	513192	52.66	ug/l	96
63) Tetrachloroethene	8.09	164	620720	53.61	ug/l	96
64) Chlorobenzene	9.73	112	1577636	51.60	ug/l	97
65) 1,1,1,2-Tetrachloroethane	9.87	131	574123	51.36	ug/l	97
66) Ethyl Benzene	9.84	91	2639223	49.82	ug/l	96
67) m/p-Xylenes	10.06	106	1928056	101.54	ug/l	94
68) o-Xylene	10.65	106	978501	49.64	ug/l	97
69) Styrene	10.73	104	1610642	51.19	ug/l	99
70) Bromoform	10.70	173	427492	51.54	ug/l	97
72) Isopropylbenzene	11.07	105	2842995	52.43	ug/l	97
73) N-amyl acetate	11.32	43	723222	48.12	ug/l #	90
74) 1,1,2,2-Tetrachloroethane	11.64	83	607060	49.40	ug/l	99
75) 1,2,3-Trichloropropane	11.74	75	427502	50.59	ug/l	95
76) Bromobenzene	11.44	156	768202	49.96	ug/l	85
77) n-propylbenzene	11.54	91	3433750	51.02	ug/l	100
78) 2-Chlorotoluene	11.66	91	1967886	52.27	ug/l	99
79) 1,3,5-Trimethylbenzene	11.78	105	2264393	51.25	ug/l	96
80) trans-1,4-Dichloro-2-buten	11.82	75	221162m	48.86	ug/l	
81) 4-Chlorotoluene	11.85	91	2166965	52.07	ug/l	89
82) tert-Butylbenzene	12.08	119	2212228	50.62	ug/l	98
83) 1,2,4-Trimethylbenzene	12.15	105	2340654	51.66	ug/l	96
84) sec-Butylbenzene	12.25	105	3181646	52.37	ug/l	97
85) p-Isopropyltoluene	12.41	119	2338487	49.44	ug/l	98
86) 1,3-Dichlorobenzene	12.42	146	1335404	51.08	ug/l	97
87) 1,4-Dichlorobenzene	12.51	146	1331731	51.02	ug/l	98
88) n-Butylbenzene	12.79	91	2460172	51.74	ug/l	99
89) Hexachloroethane	12.86	117	562149	50.21	ug/l	88
90) 1,2-Dichlorobenzene	12.88	146	1256416	52.25	ug/l	96
91) 1,2-Dibromo-3-Chloropropan	13.58	75	80139	49.12	ug/l	71
92) 1,2,4-Trichlorobenzene	14.13	180	774292	55.65	ug/l	99
93) Hexachlorobutadiene	14.12	225	577574	54.65	ug/l	96

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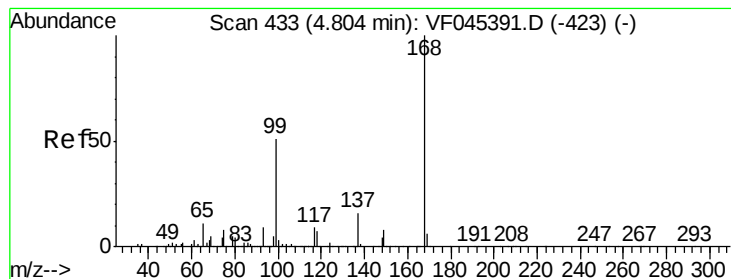
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Naphthalene	14.39	128	1342613	51.06	µg/l	99
95) 1,2,3-Trichlorobenzene	14.53	180	652736	57.10	µg/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.81 min Scan# 434

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 1032314

Ion Ratio Lower Upper

168 100

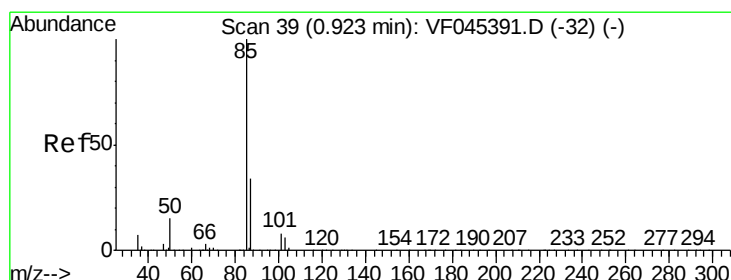
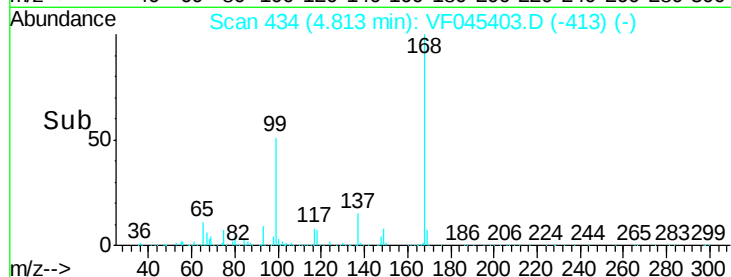
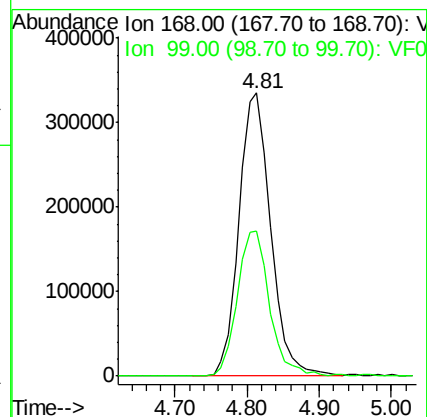
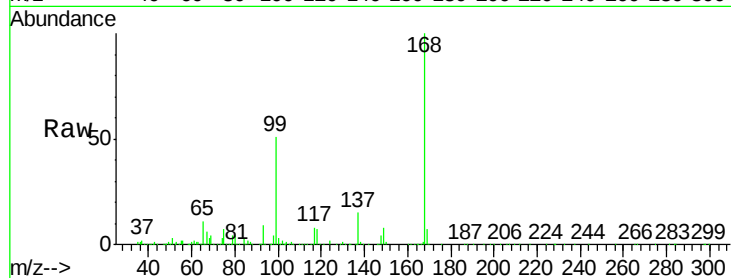
99 51.4 39.0 58.4

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#2

Dichlorodifluoromethane

Concen: 50.53 ug/l

RT: 0.93 min Scan# 40

Delta R.T. 0.01 min

Lab File: VF045403.D

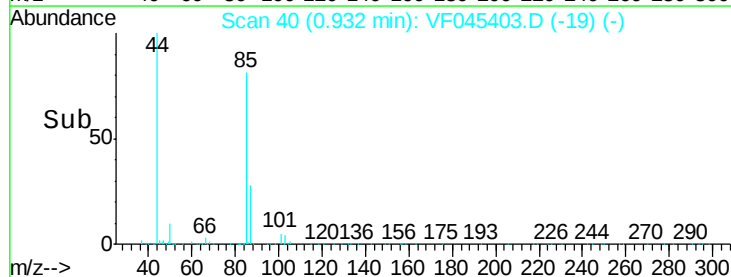
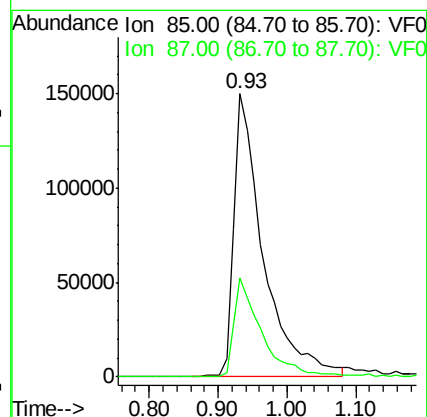
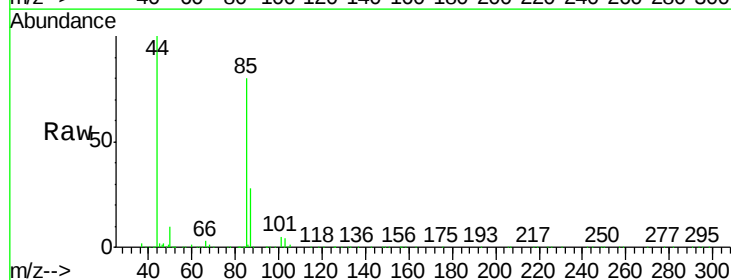
Acq: 16 Sep 2015 22:00

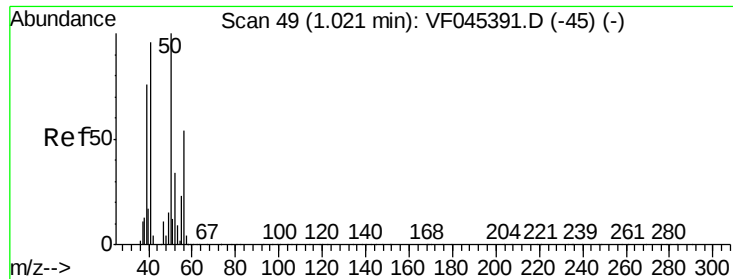
Tgt Ion: 85 Resp: 444237

Ion Ratio Lower Upper

85 100

87 34.9 15.6 46.7





#3

Chloromethane

Concen: 46.90 ug/l

RT: 1.02 min Scan# 49

Delta R.T. -0.00 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

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ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 353025

Ion Ratio Lower Upper

50 100

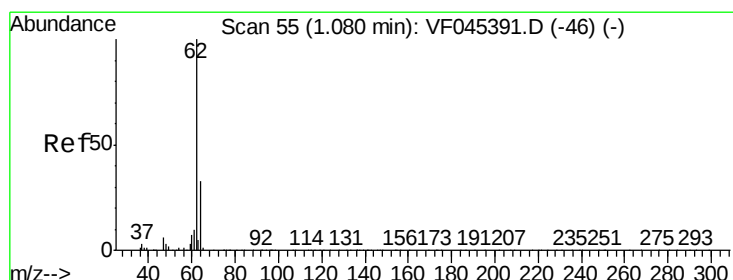
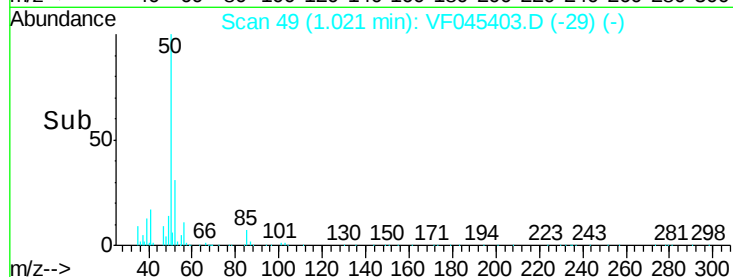
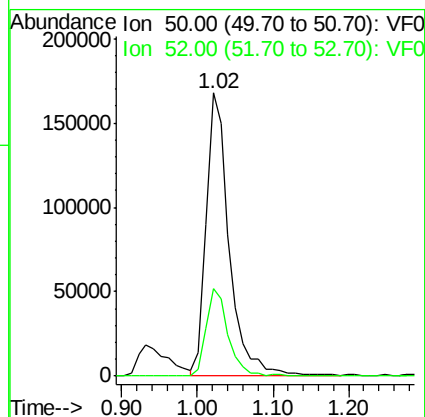
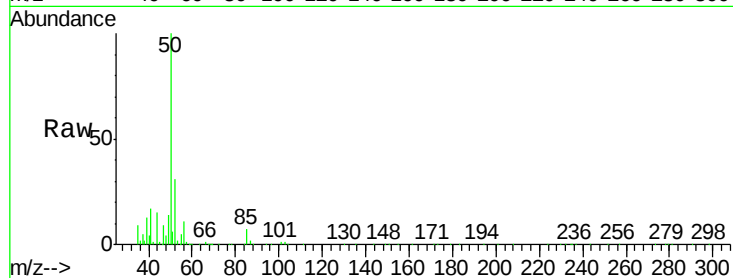
52 31.0 23.8 35.8

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#4

Vinyl Chloride

Concen: 46.29 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF045403.D

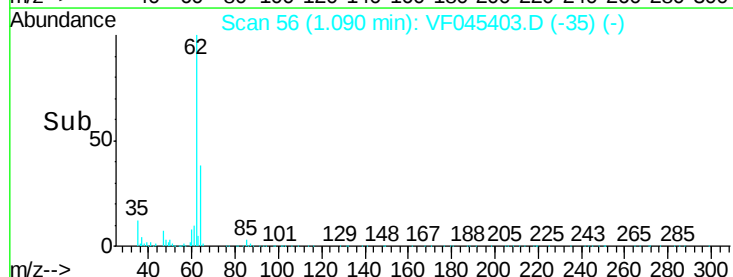
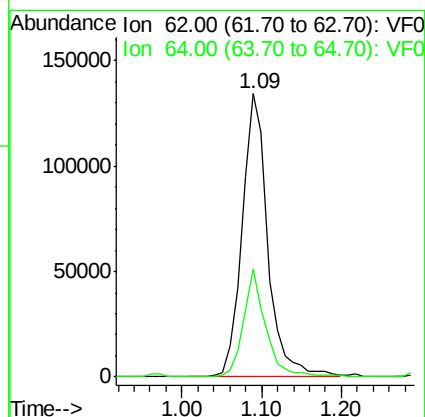
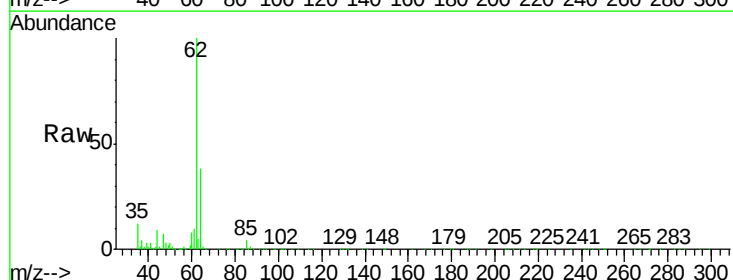
Acq: 16 Sep 2015 22:00

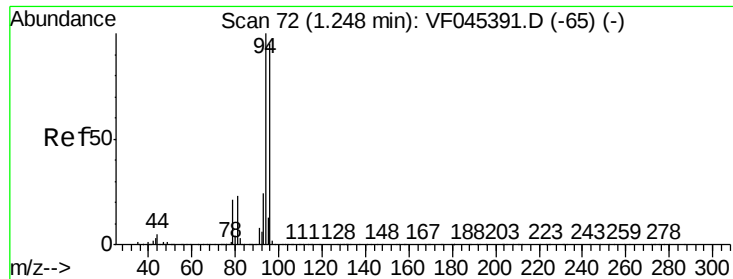
Tgt Ion: 62 Resp: 298612

Ion Ratio Lower Upper

62 100

64 38.3 26.6 39.8





#5

Bromomethane

Concen: 47.26 ug/l

RT: 1.26 min Scan# 73

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

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ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 189321

Ion Ratio Lower Upper

94 100

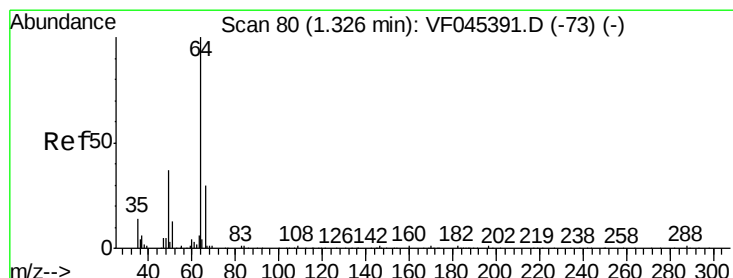
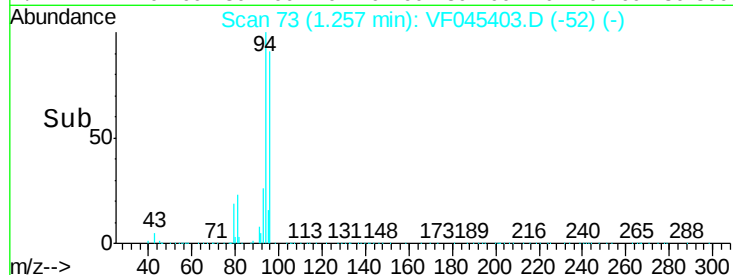
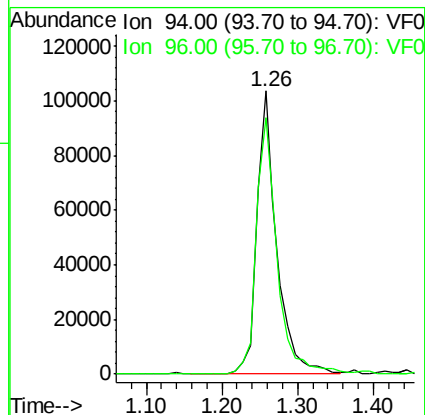
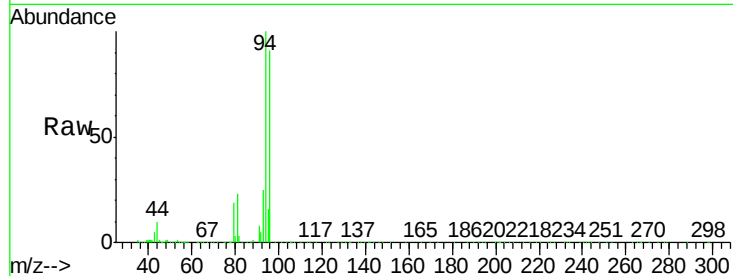
96 90.5 75.0 112.4

Manual Integrations

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#6

Chloroethane

Concen: 52.99 ug/l

RT: 1.34 min Scan# 81

Delta R.T. 0.01 min

Lab File: VF045403.D

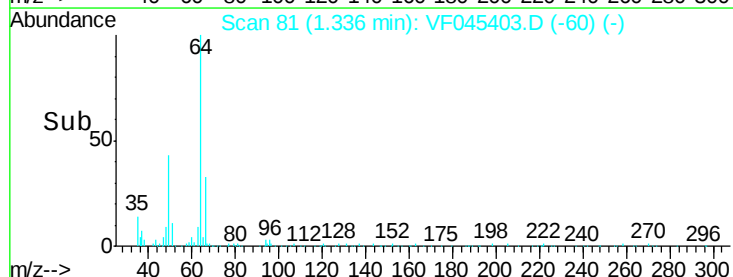
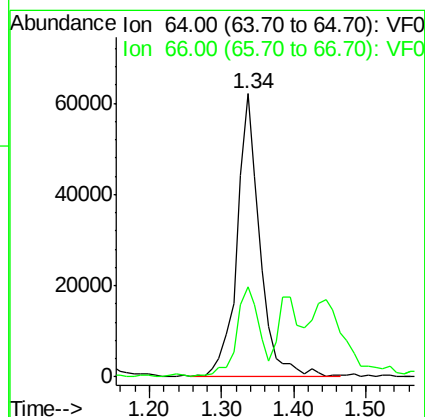
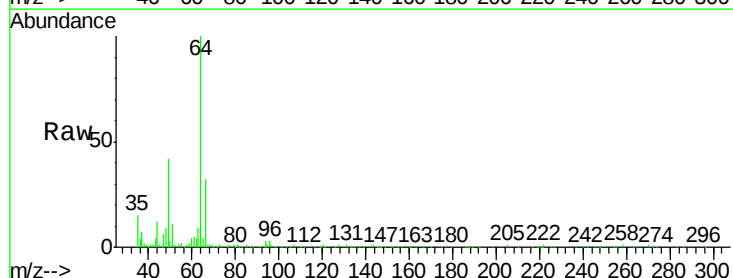
Acq: 16 Sep 2015 22:00

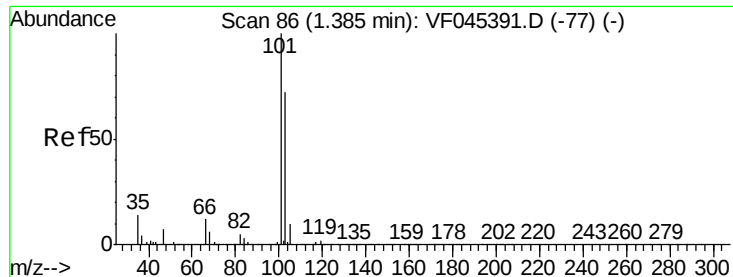
Tgt Ion: 64 Resp: 136226

Ion Ratio Lower Upper

64 100

66 31.9 27.3 40.9





#7

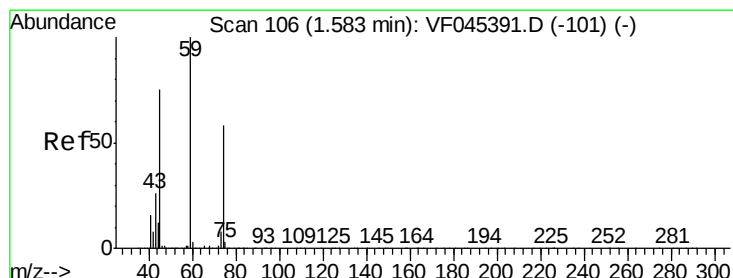
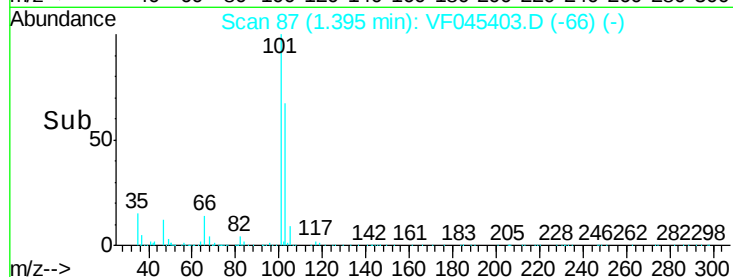
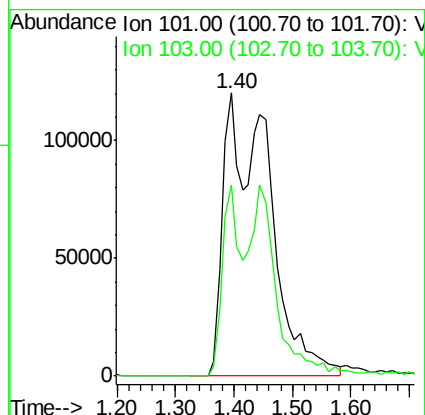
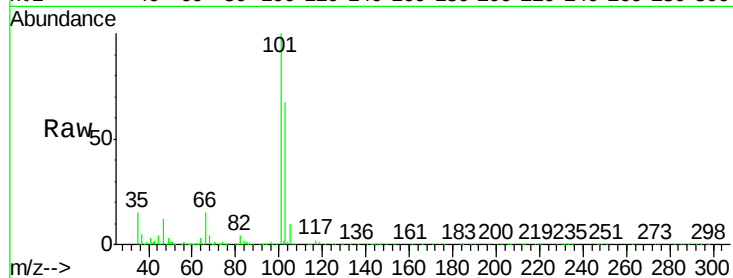
Trichlorofluoromethane
 Concen: 49.44 ug/l m
 RT: 1.40 min Scan# 87
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	67.4	50.8	76.2

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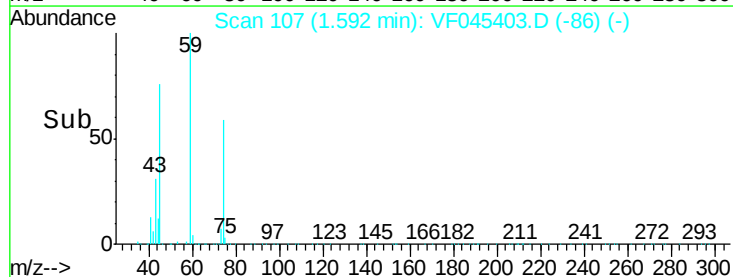
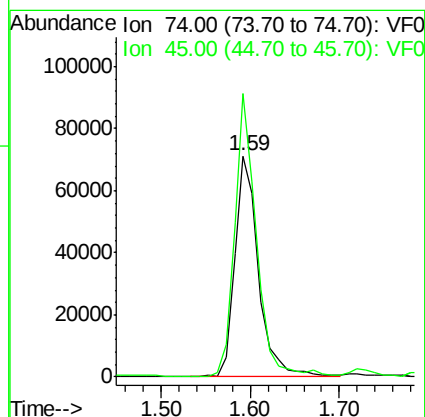
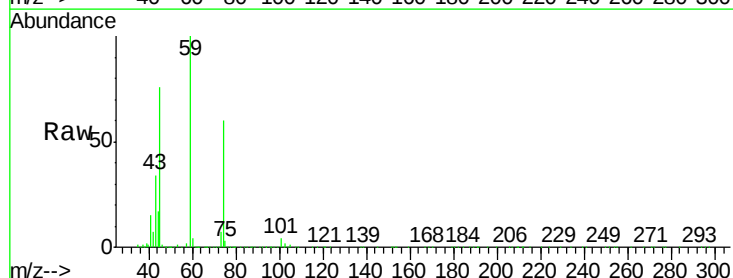
MMDadoda
 9/17/2015 12:51:41 PM

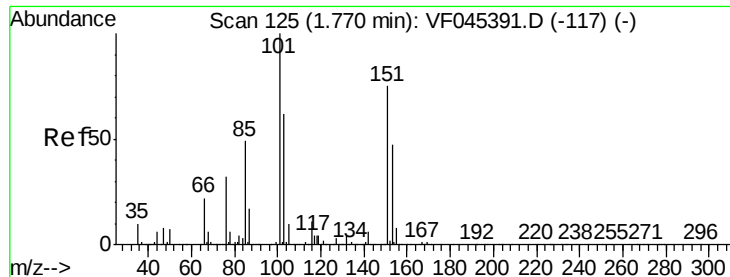


#8

Diethyl Ether
 Concen: 47.96 ug/l
 RT: 1.59 min Scan# 107
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
74	100		
45	127.9	60.9	182.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.51 ug/l

RT: 1.78 min Scan# 126

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

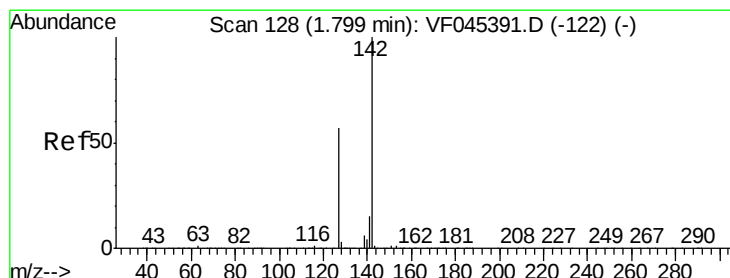
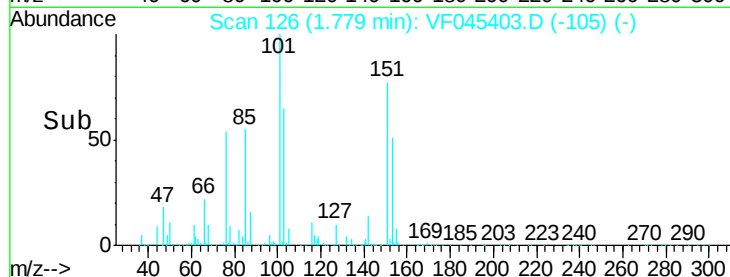
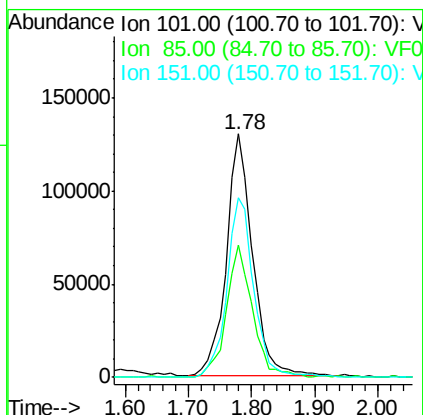
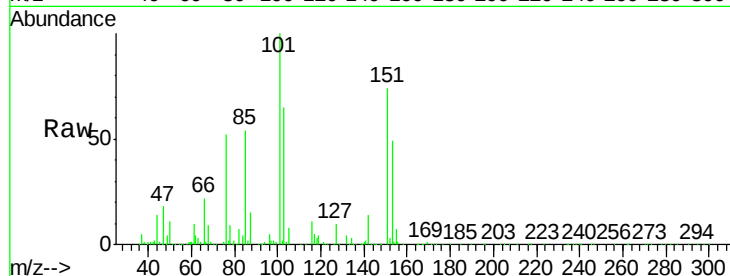
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	369556
Ion Ratio	Lower	Upper	
101	100		
85	54.1	40.0	60.0
151	74.0	62.8	94.2

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#10

Methyl Iodide

Concen: 47.79 ug/l

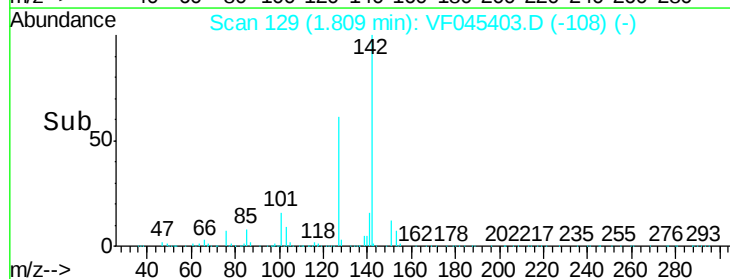
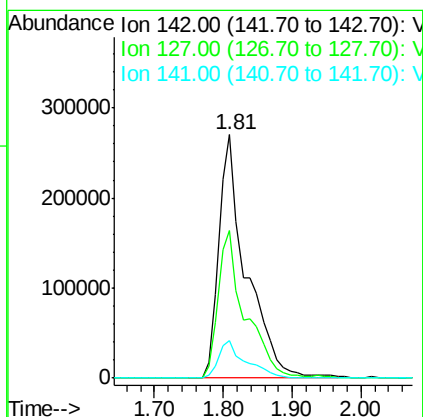
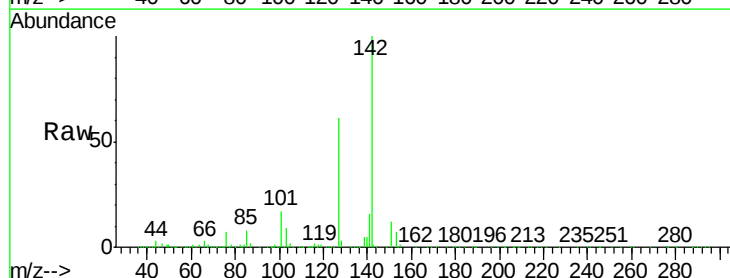
RT: 1.81 min Scan# 129

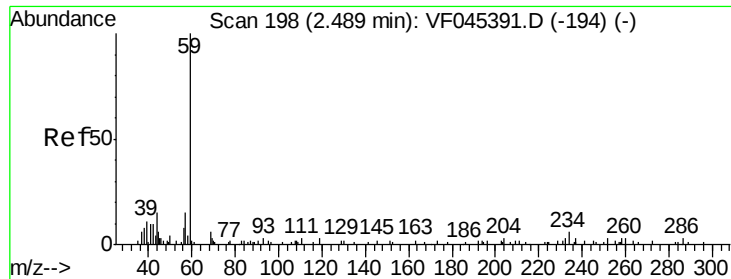
Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion:	142	Resp:	744552
Ion Ratio	Lower	Upper	
142	100		
127	60.5	43.3	64.9
141	15.6	12.1	18.1





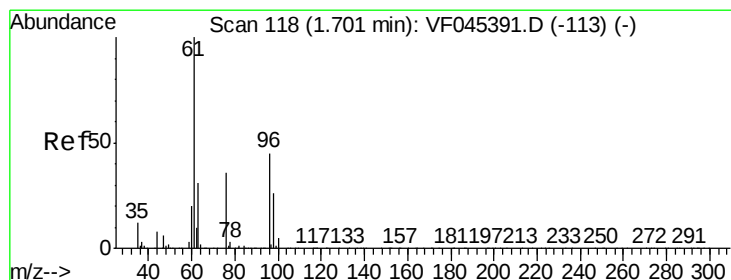
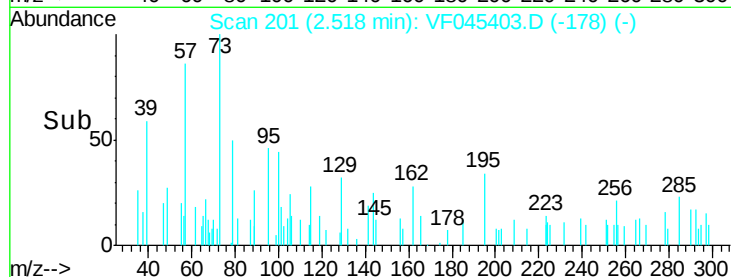
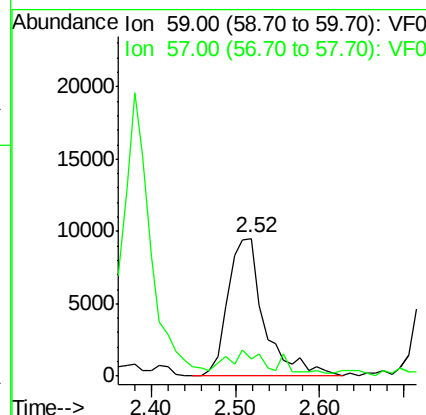
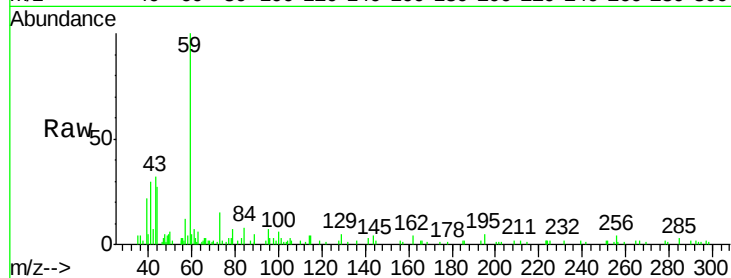
#11
Tert butyl alcohol
Concen: 228.91 ug/l
RT: 2.52 min Scan# 201
Delta R.T. 0.03 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
59	100	28515		
57	12.5		8.6	13.0

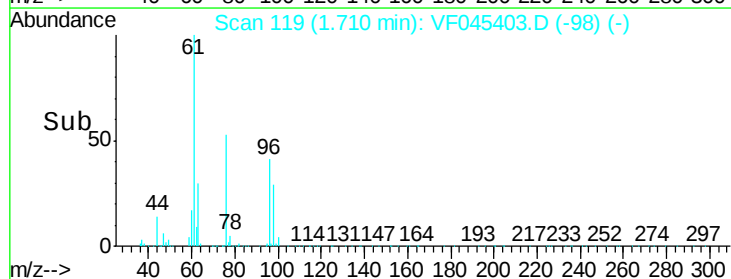
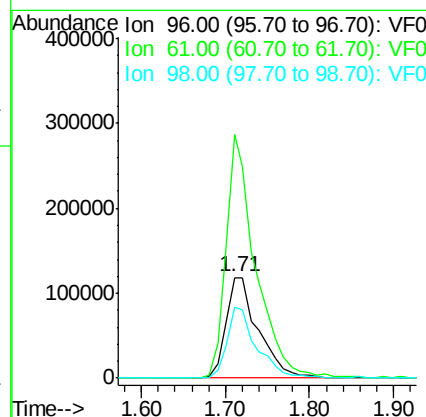
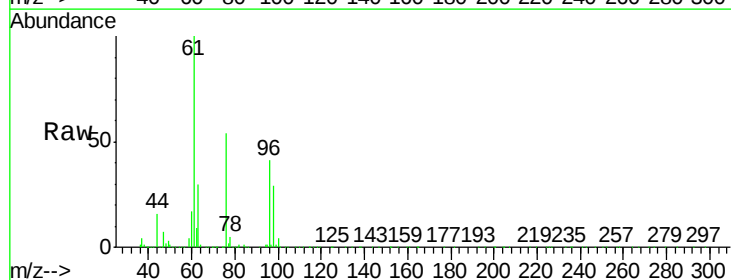
Manual Integrations
APPROVED

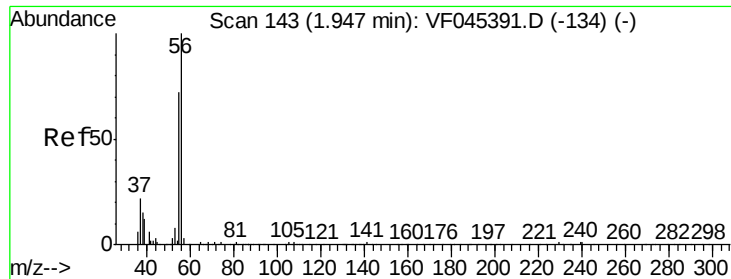
MMDadoda
9/17/2015 12:51:41 PM



#12
1,1-Dichloroethene
Concen: 49.66 ug/l
RT: 1.71 min Scan# 119
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	314265		
61	242.4		165.8	248.8
98	70.5		51.2	76.8





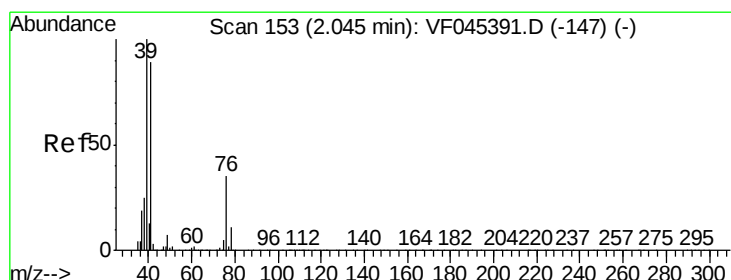
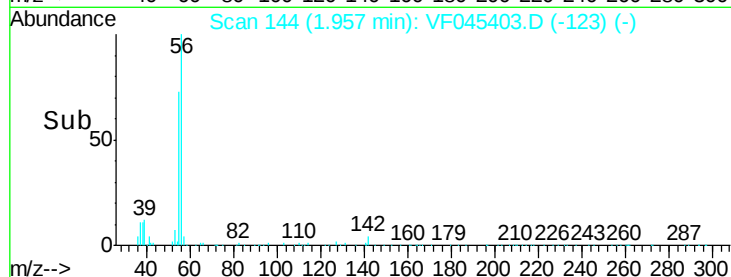
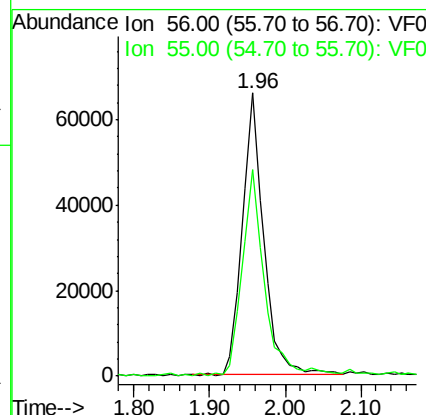
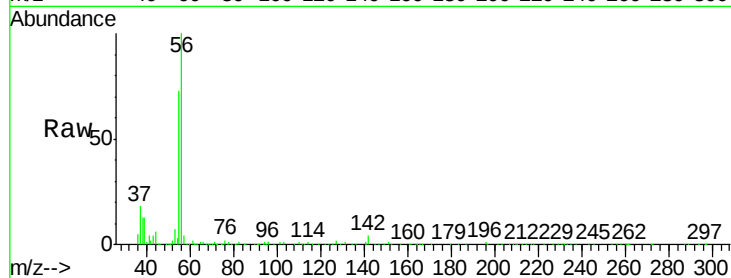
#13
Acrolein
Concen: 247.42 ug/l
RT: 1.96 min Scan# 144
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
55	73.0	60.5	90.7

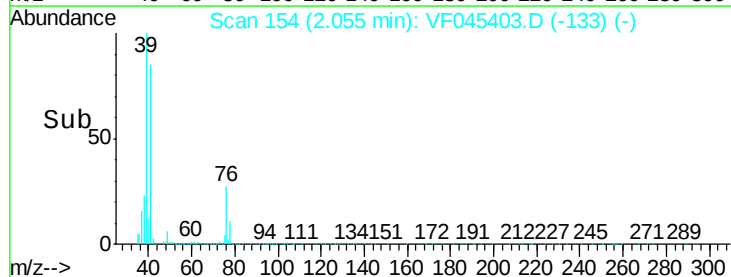
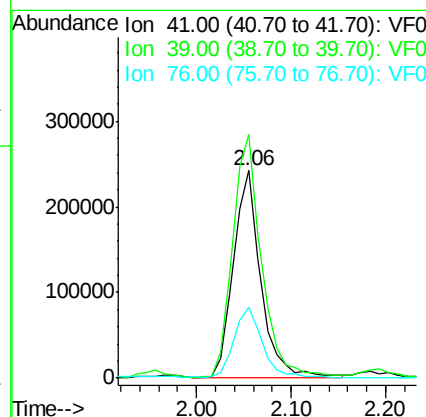
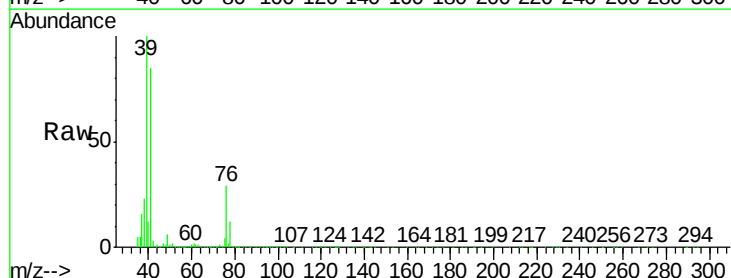
Manual Integrations
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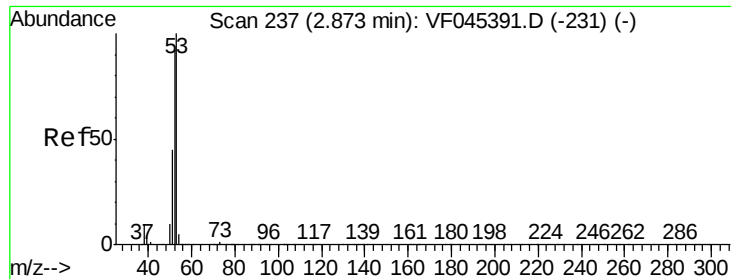
MMDadoda
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#14
Allyl chloride
Concen: 49.41 ug/l
RT: 2.06 min Scan# 154
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
41	100		
39	117.4	92.8	139.2
76	34.1	27.7	41.5





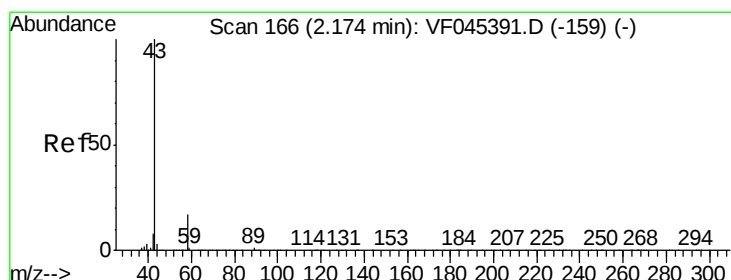
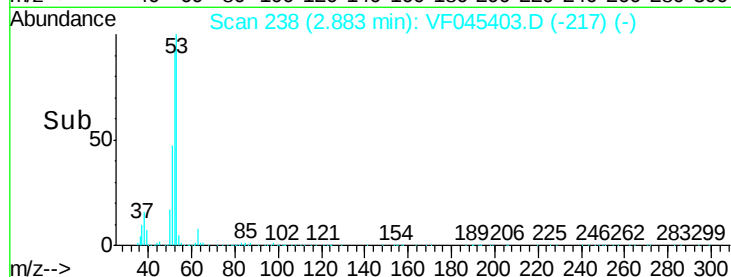
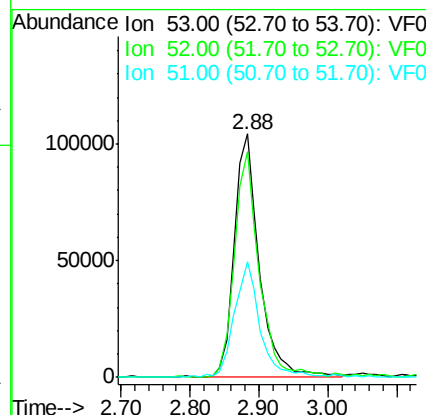
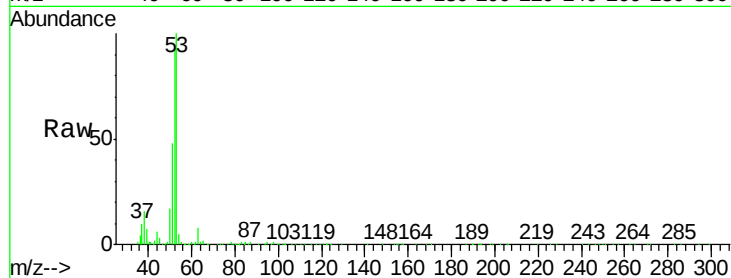
#15
 Acrylonitrile
 Concen: 221.22 ug/l
 RT: 2.88 min Scan# 238
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
53	100		
52	92.8	72.7	109.1
51	47.5	42.2	63.2

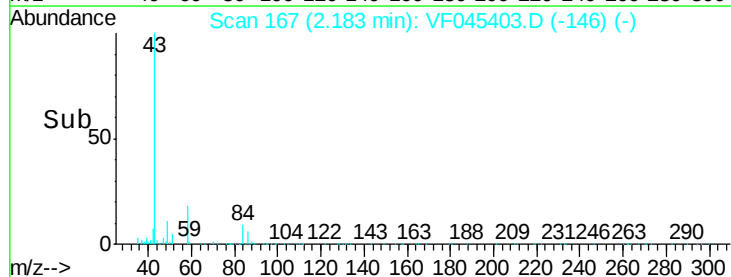
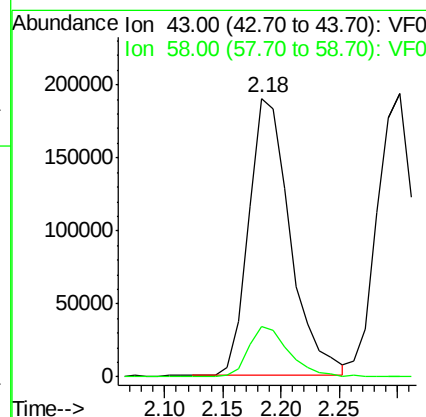
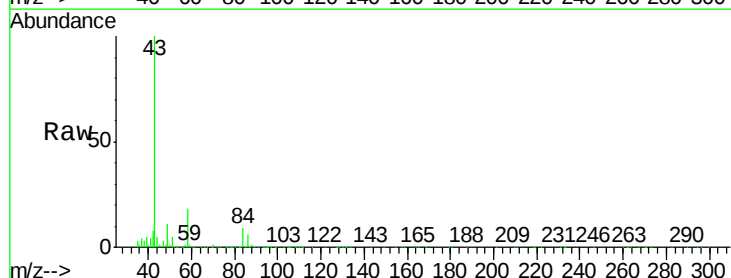
Manual Integrations
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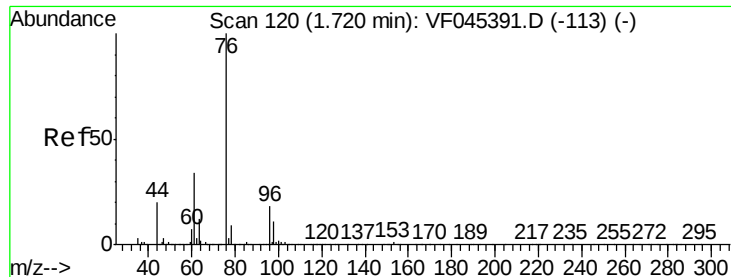
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#16
 Acetone
 Concen: 185.85 ug/l
 RT: 2.18 min Scan# 167
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	18.3	13.9	20.9





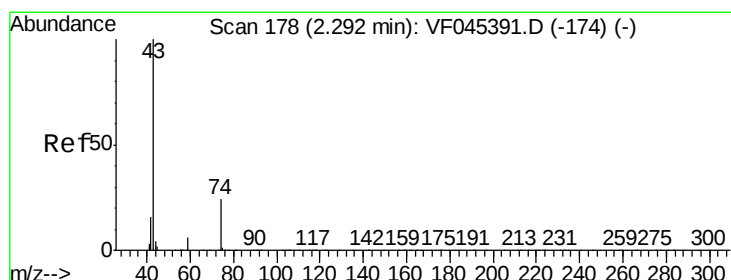
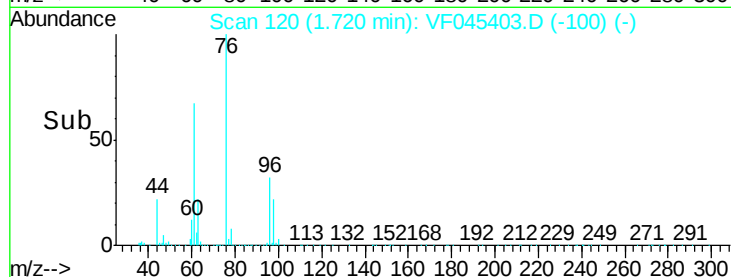
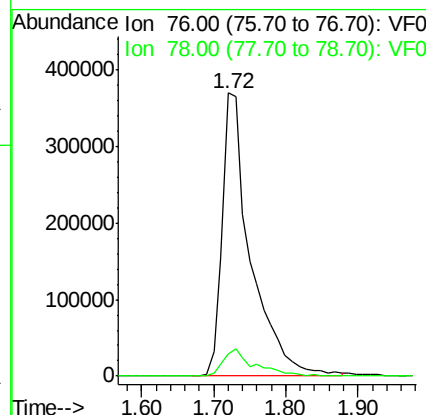
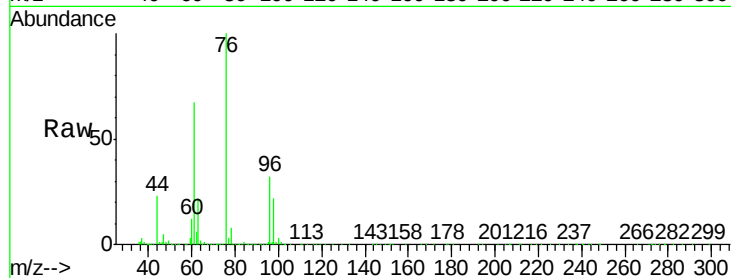
#17
Carbon Disulfide
Concen: 46.67 ug/l
RT: 1.72 min Scan# 120
Delta R.T. -0.00 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 76 Resp: 1006553
Ion Ratio Lower Upper
76 100
78 7.9 7.6 11.4

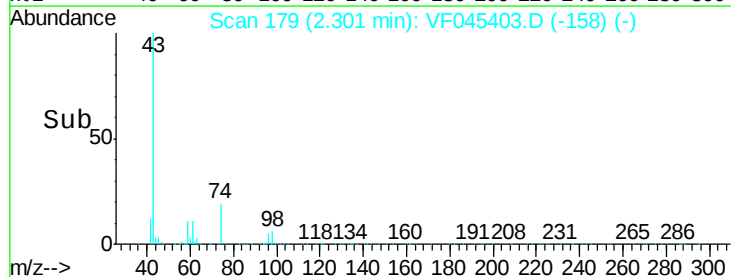
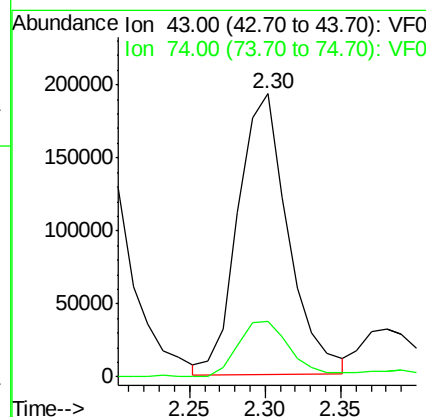
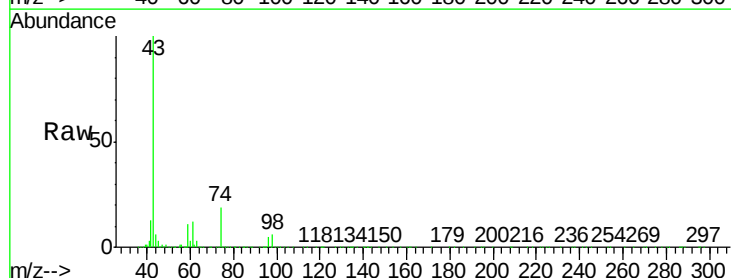
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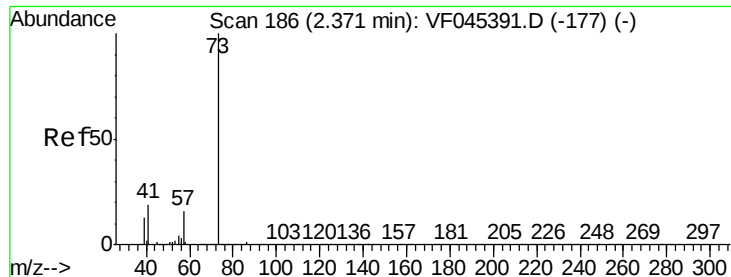
MMDadoda
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#18
Methyl Acetate
Concen: 46.10 ug/l
RT: 2.30 min Scan# 179
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion: 43 Resp: 445020
Ion Ratio Lower Upper
43 100
74 19.4 15.1 22.7





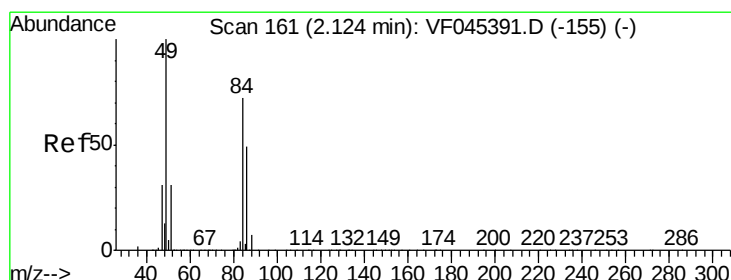
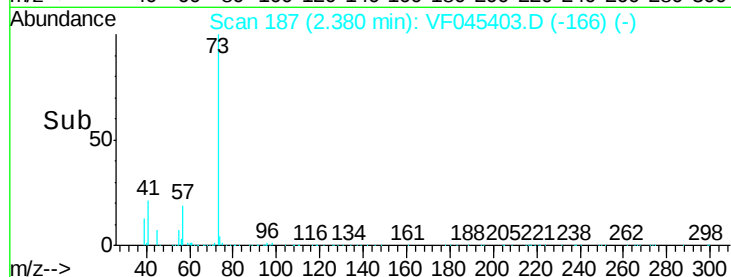
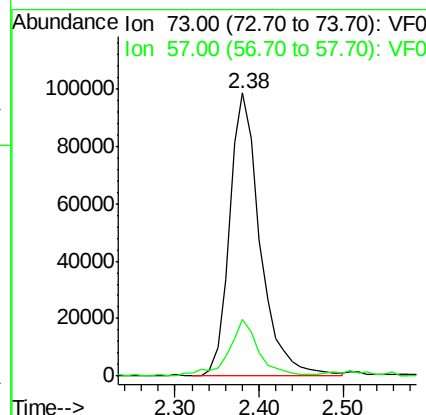
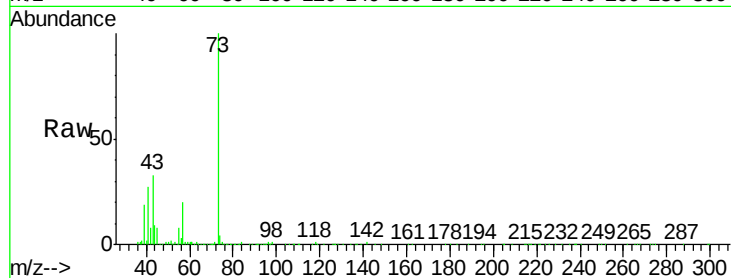
#19
Methvl tert-butvl Ether
Concen: 49.92 ug/l
RT: 2.38 min Scan# 187
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.9	12.9	19.3#

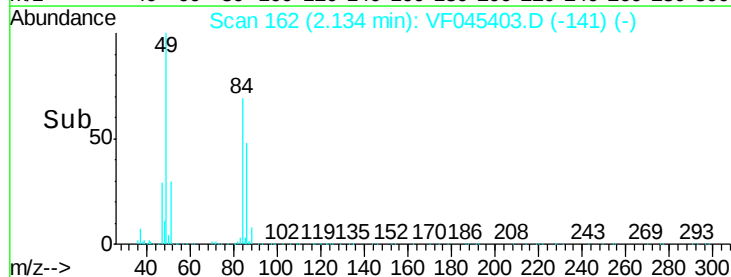
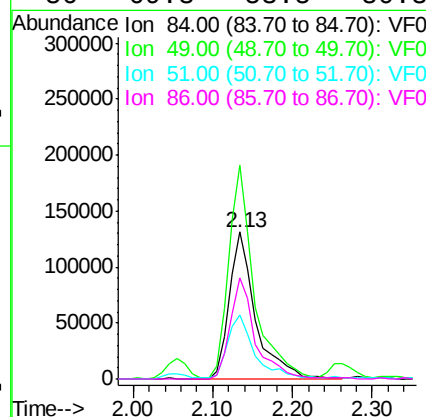
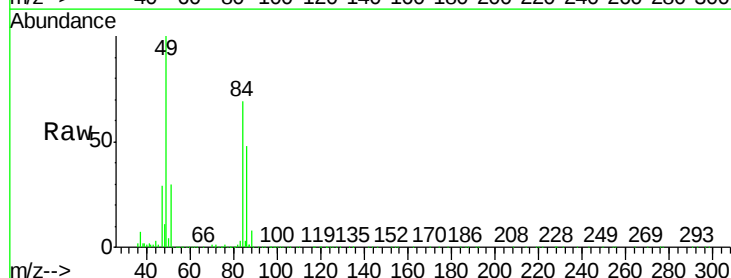
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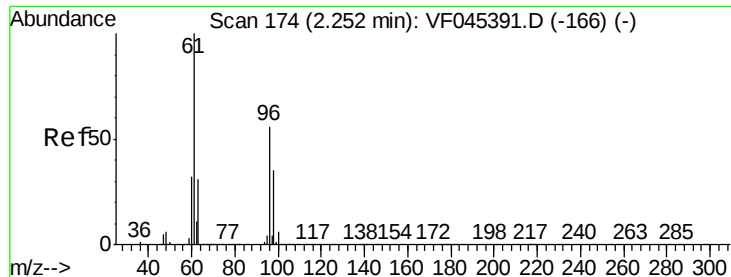
MMDadoda
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#20
Methylene Chloride
Concen: 44.19 ug/l
RT: 2.13 min Scan# 162
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.5	122.8	184.2
51	44.0	35.4	53.2
86	69.3	53.5	80.3





#21

trans-1,2-Dichloroethene

Concen: 47.75 ug/l

RT: 2.26 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

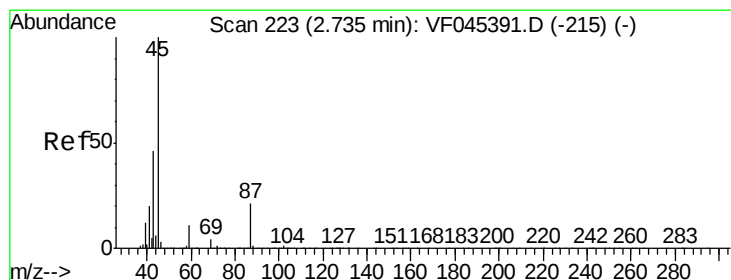
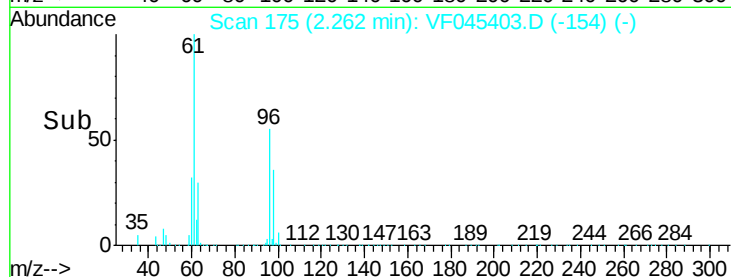
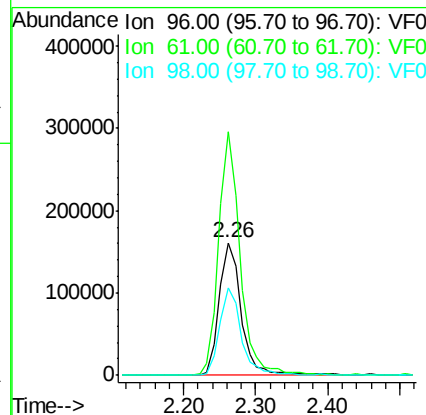
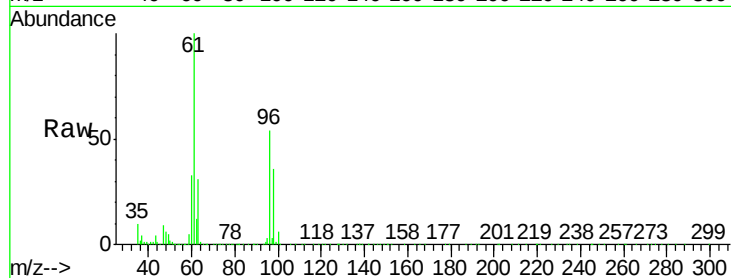
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	338794
Ion Ratio	Lower	Upper	
96	100		
61	183.7	136.8	205.2
98	65.6	51.0	76.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 47.32 ug/l

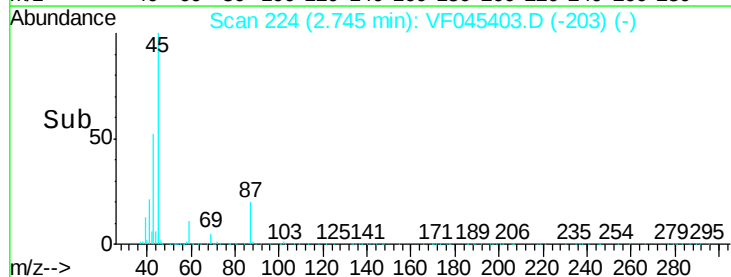
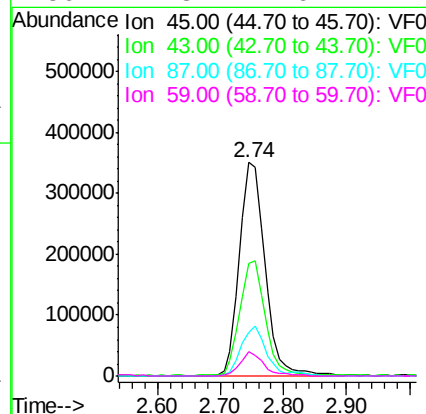
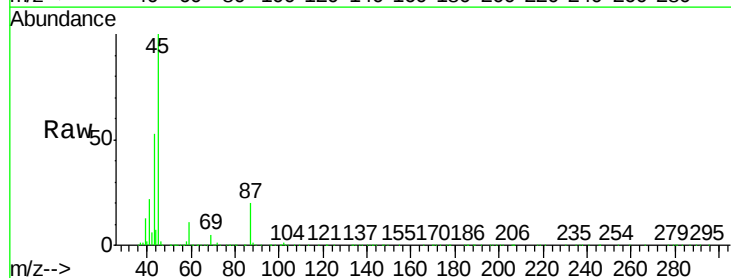
RT: 2.74 min Scan# 224

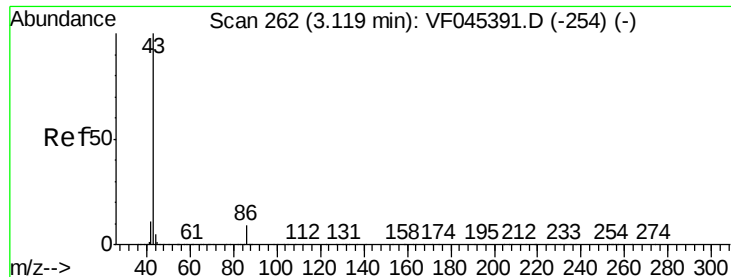
Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion:	45	Resp:	990375
Ion Ratio	Lower	Upper	
45	100		
43	52.5	42.2	63.4
87	20.4	16.6	25.0
59	11.3	7.6	11.4





#23

Vinyl Acetate

Concen: 243.69 ug/l

RT: 3.13 min Scan# 263

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1488835

Ion Ratio Lower Upper

43 100

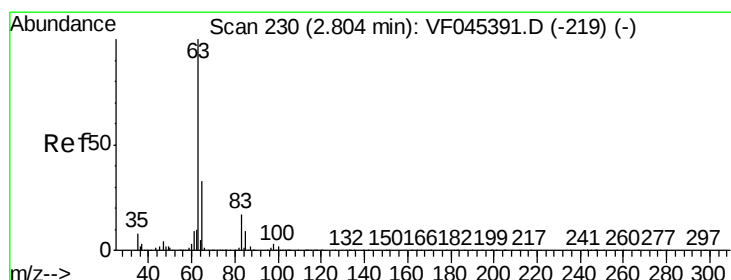
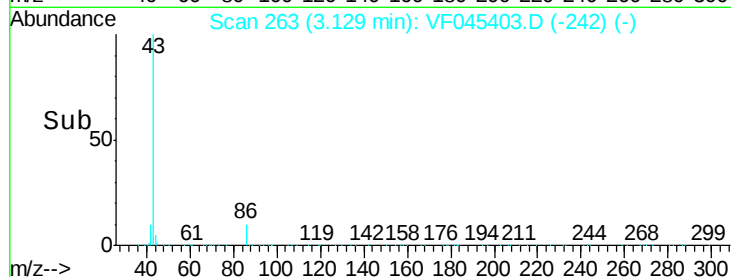
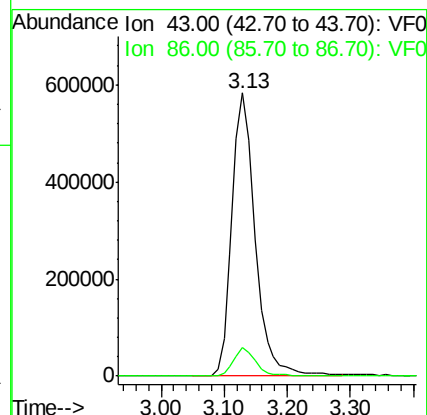
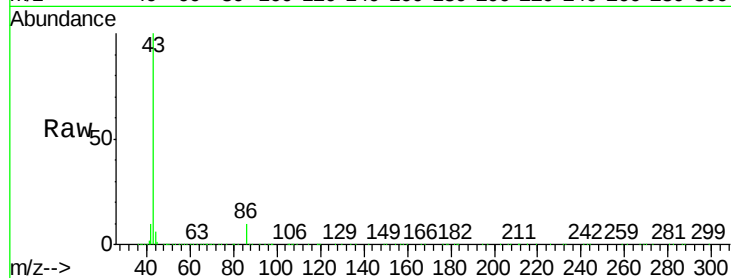
86 9.9 6.3 9.5#

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#24

1,1-Dichloroethane

Concen: 49.83 ug/l

RT: 2.81 min Scan# 231

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

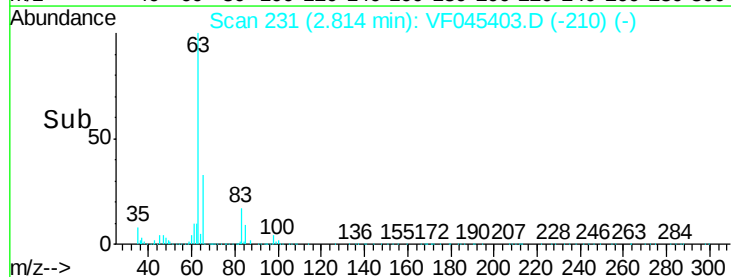
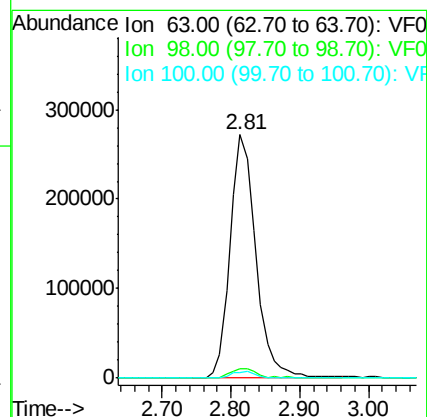
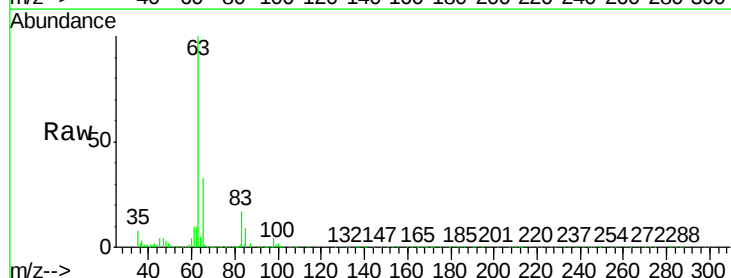
Tgt Ion: 63 Resp: 705919

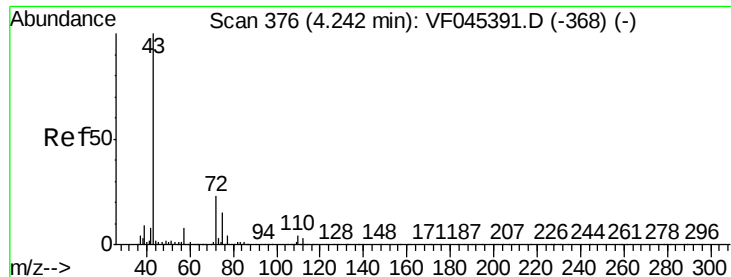
Ion Ratio Lower Upper

63 100

98 4.1 2.2 6.6

100 2.1 1.1 3.5





#25

2-Butanone

Concen: 202.10 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 711495

Ion Ratio Lower Upper

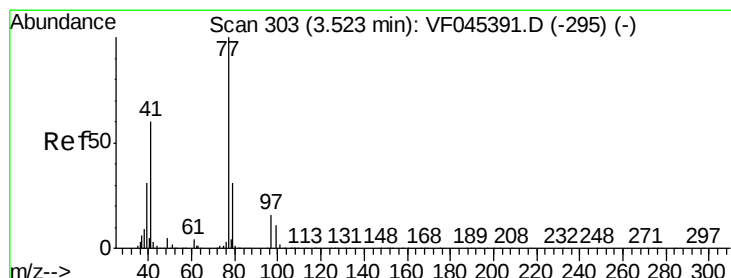
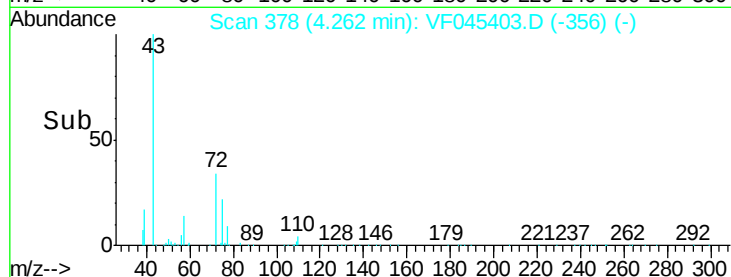
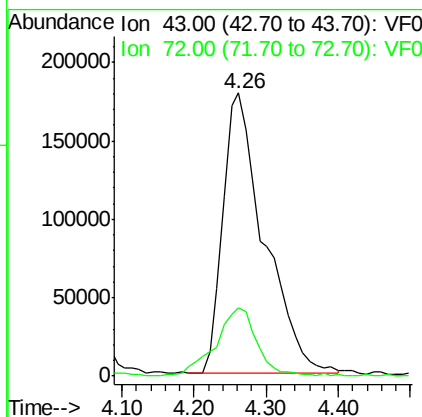
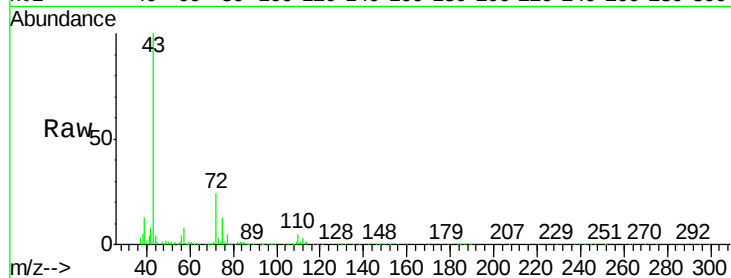
43 100

72 24.1 20.2 30.2

Manual Integrations
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#26

2,2-Dichloropropane

Concen: 45.92 ug/l

RT: 3.53 min Scan# 304

Delta R.T. 0.01 min

Lab File: VF045403.D

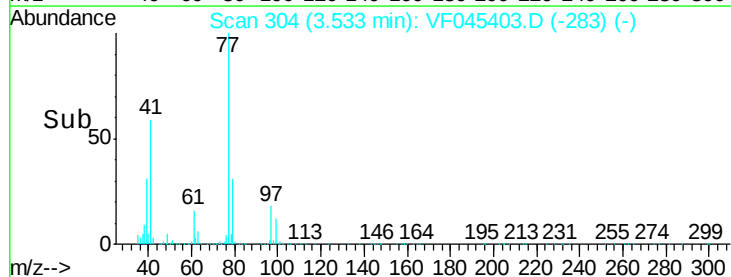
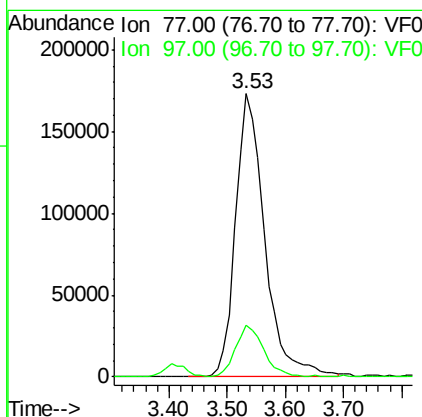
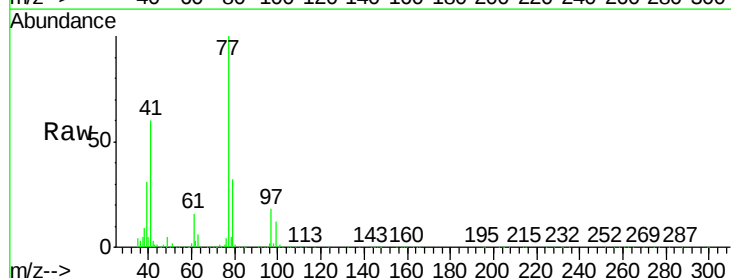
Acq: 16 Sep 2015 22:00

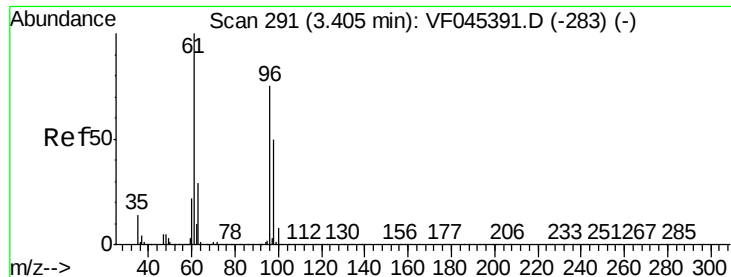
Tgt Ion: 77 Resp: 605814

Ion Ratio Lower Upper

77 100

97 18.4 9.2 27.4





#27

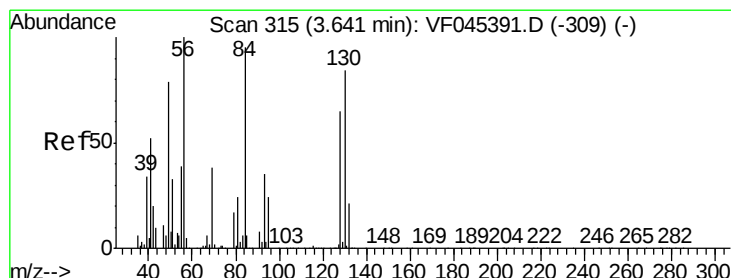
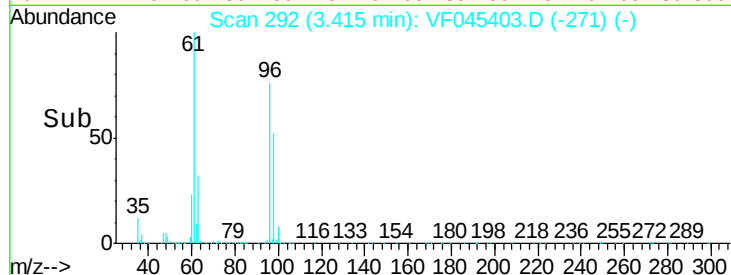
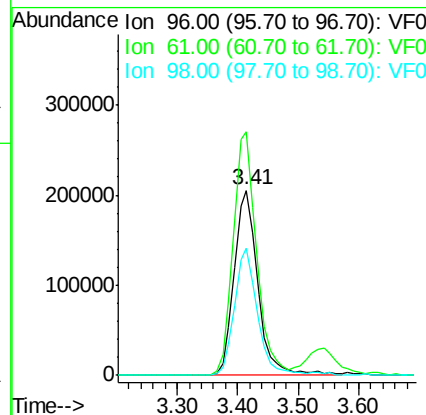
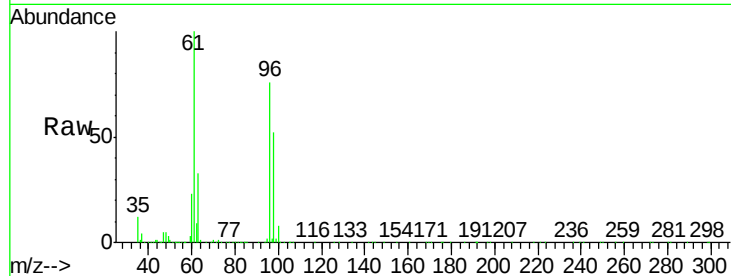
cis-1,2-Dichloroethene
Concen: 51.23 ug/l
RT: 3.41 min Scan# 292
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp Lower	Upper
96	100		
61	131.6	0.0	268.6
98	69.0	0.0	135.8

Manual Integrations
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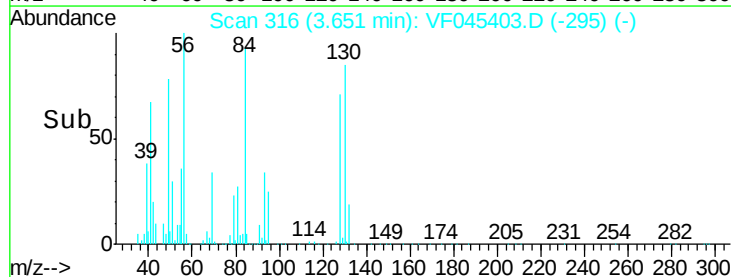
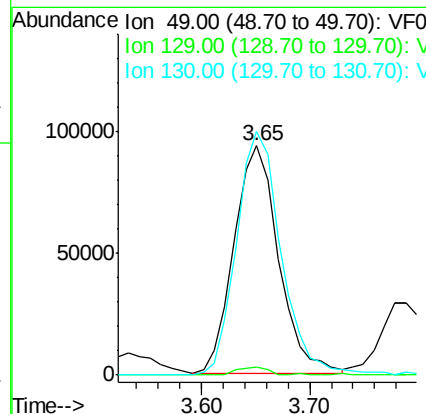
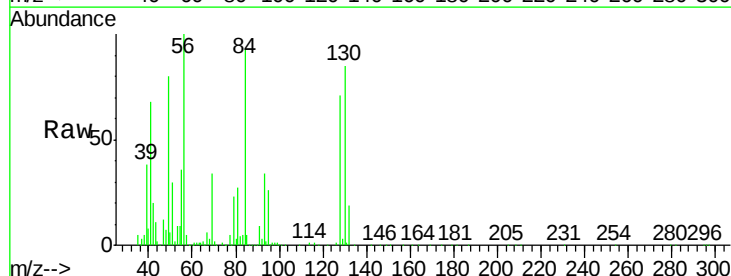
MMDadoda
9/17/2015 12:51:41 PM

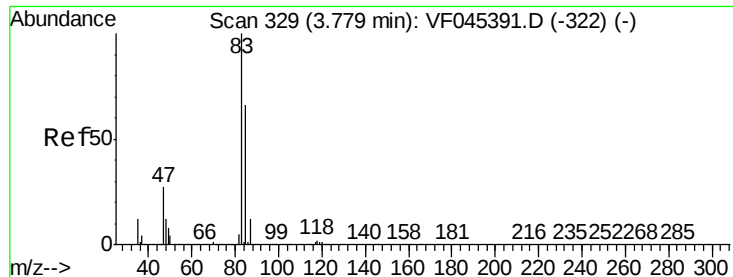


#28

Bromochloromethane
Concen: 47.91 ug/l
RT: 3.65 min Scan# 316
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Resp Lower	Upper
49	100		
129	3.3	0.0	0.0#
130	106.2	79.6	119.4





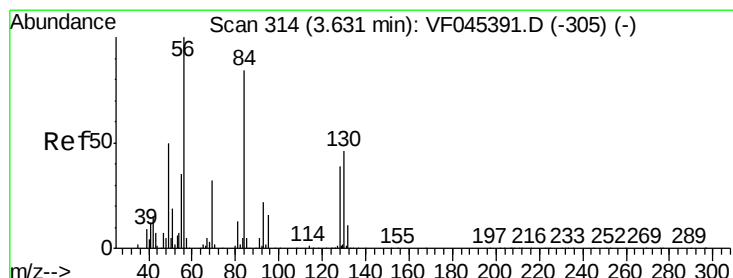
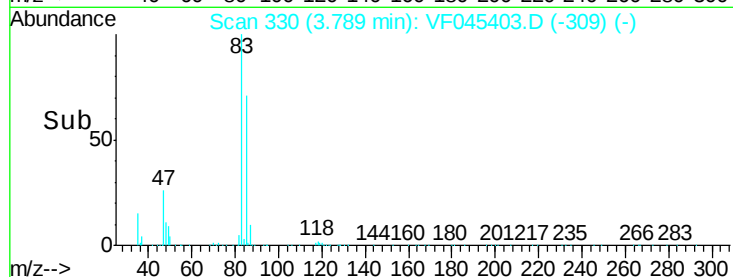
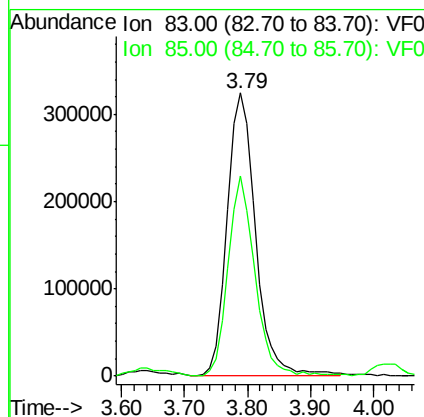
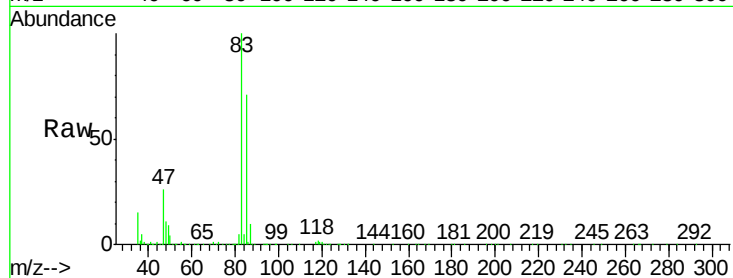
#29
Chloroform
Concen: 50.35 ug/l
RT: 3.79 min Scan# 330
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 83 Resp: 1002608
Ion Ratio Lower Upper
83 100
85 70.7 51.6 77.4

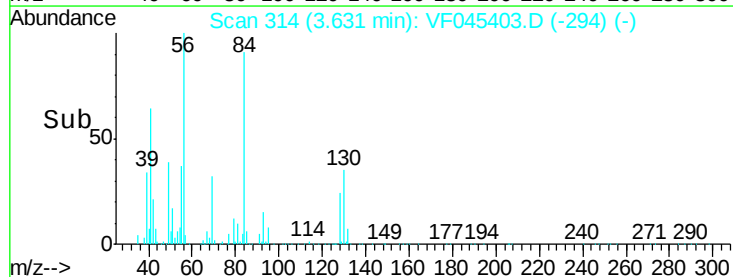
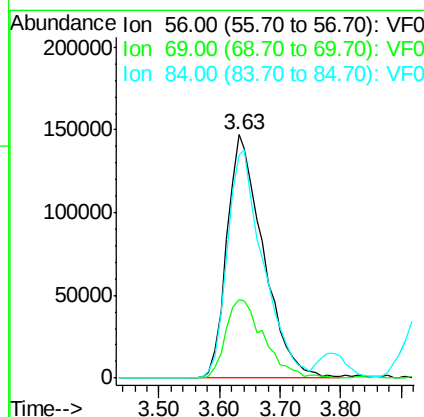
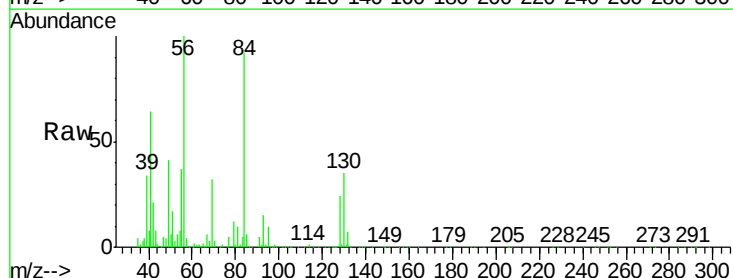
Manual Integrations
APPROVED

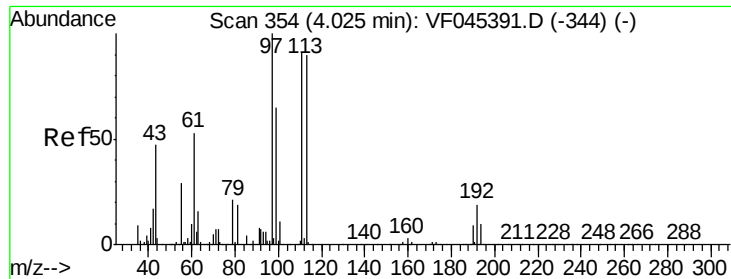
MMDadoda
9/17/2015 12:51:41 PM



#30
Cyclohexane
Concen: 47.90 ug/l
RT: 3.63 min Scan# 314
Delta R.T. -0.00 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion: 56 Resp: 612352
Ion Ratio Lower Upper
56 100
69 32.1 26.1 39.1
84 91.5 72.2 108.4





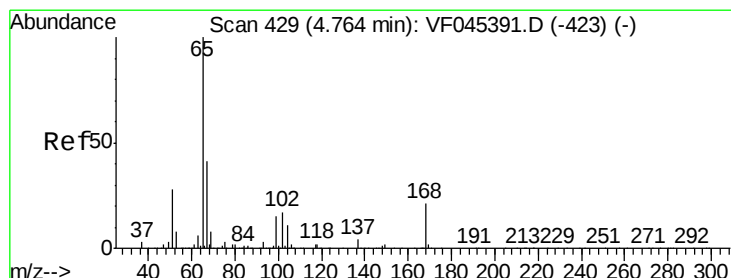
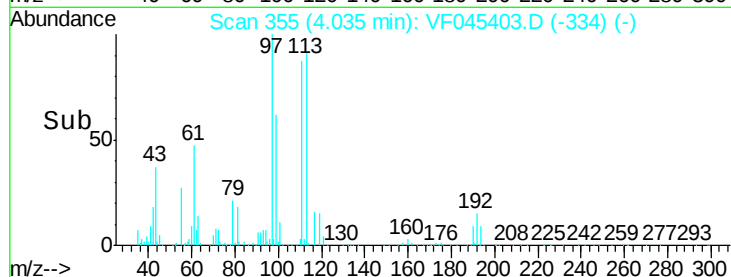
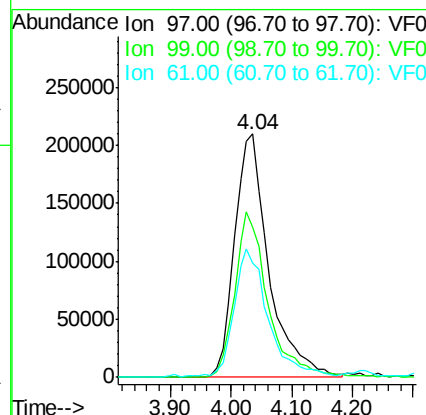
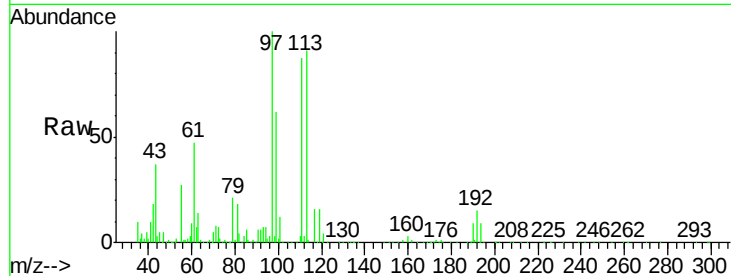
#31
 1,1,1-Trichloroethane
 Concen: 49.92 ug/l
 RT: 4.04 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
97	100		
99	61.9	51.1	76.7
61	47.2	37.8	56.6

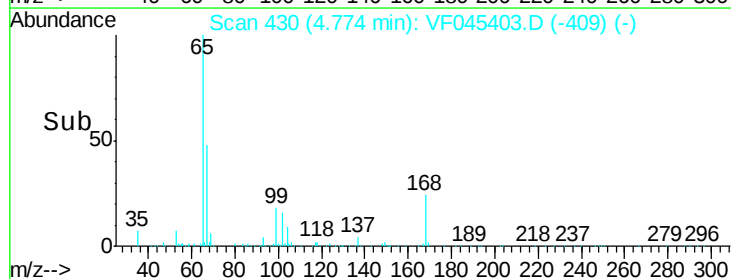
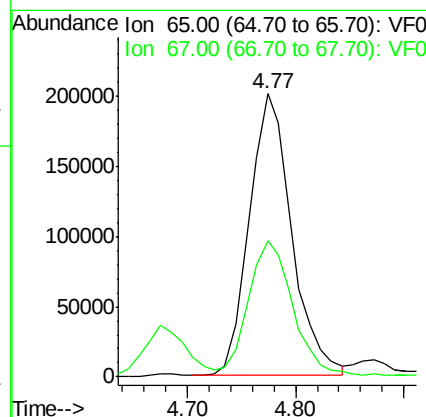
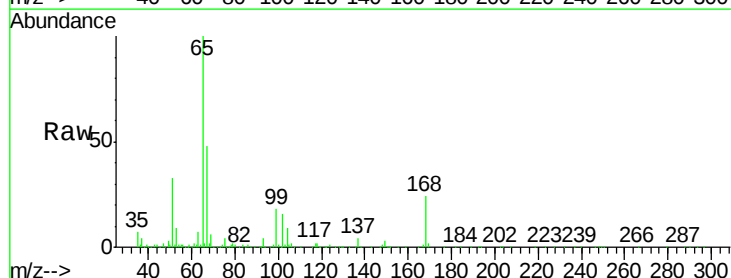
Manual Integrations
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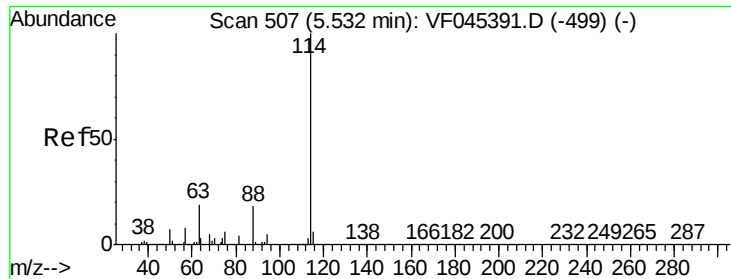
MMDadoda
 9/17/2015 12:51:41 PM



#32
 1,2-Dichloroethane-d4
 Concen: 49.63 ug/l
 RT: 4.77 min Scan# 430
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
65	100		
67	48.0	0.0	102.2





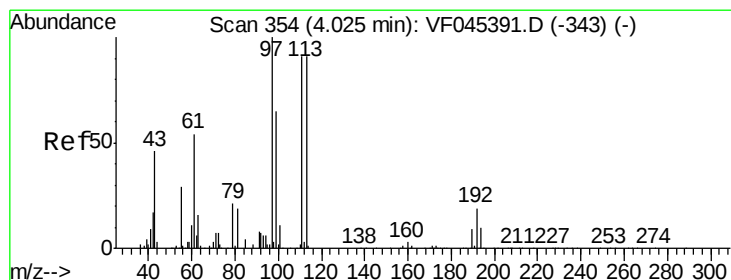
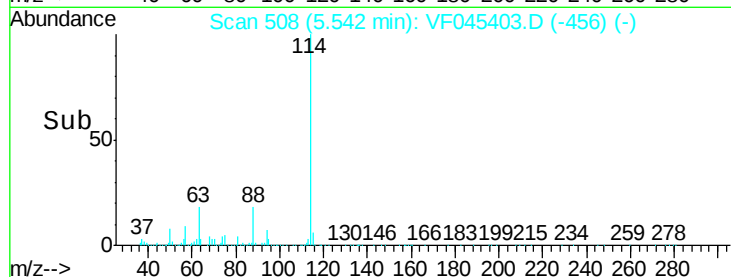
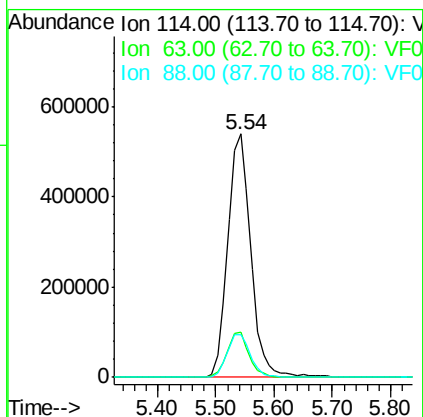
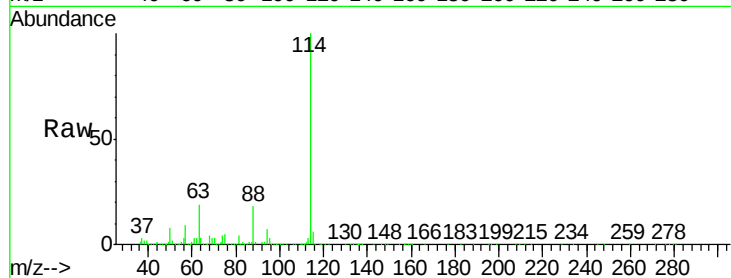
#33
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.54 min Scan# 508
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	39.2
88	17.6	0.0	37.0

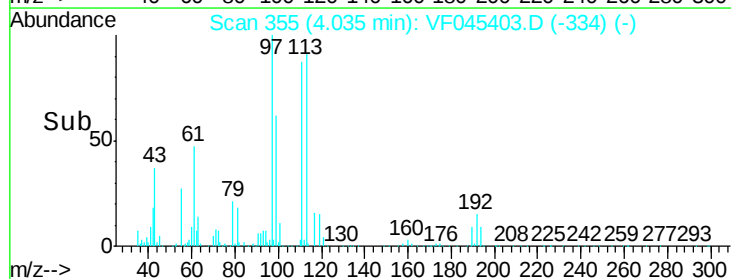
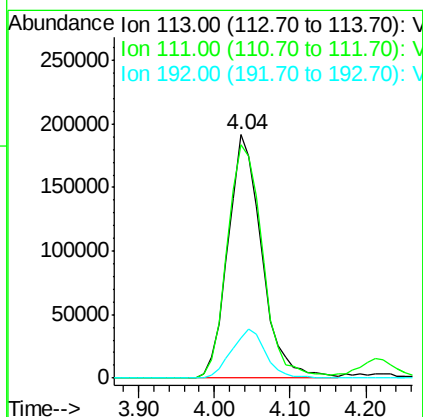
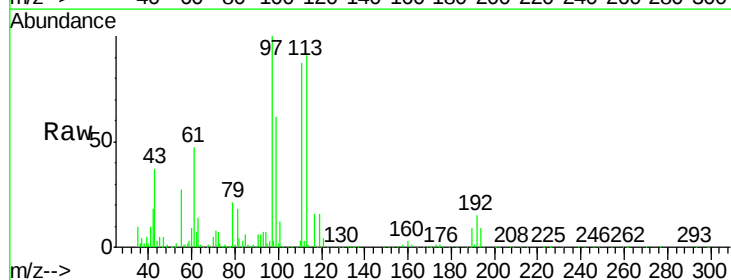
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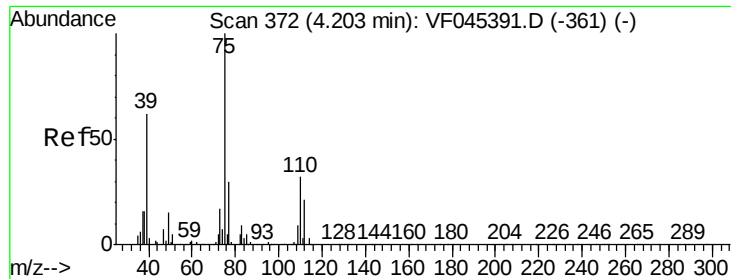
MMDadoda
 9/17/2015 12:51:41 PM



#34
 Dibromofluoromethane
 Concen: 51.41 ug/l
 RT: 4.04 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
113	100		
111	95.6	75.5	113.3
192	16.4	15.6	23.4





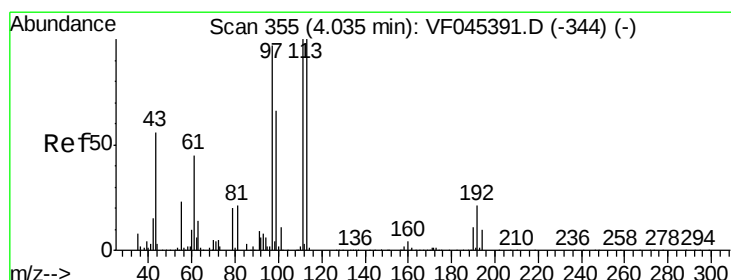
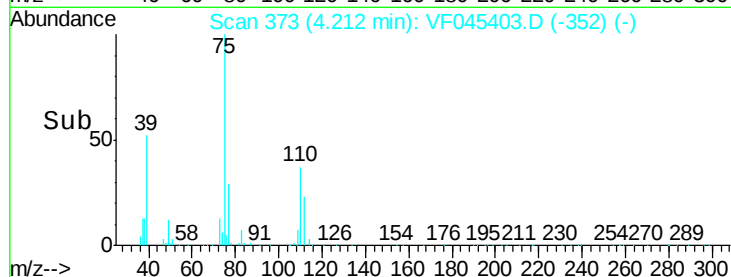
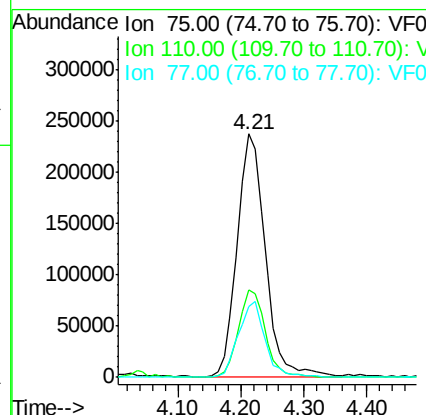
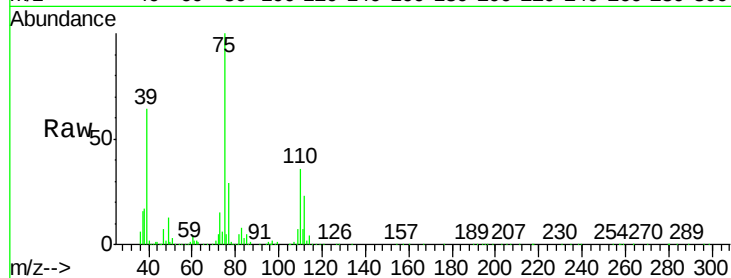
#35
 1,1-Dichloropropene
 Concen: 51.56 ug/l
 RT: 4.21 min Scan# 373
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
110	36.1	15.9	47.6
77	29.2	24.2	36.4

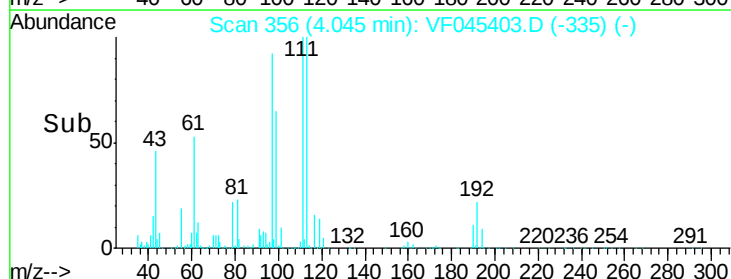
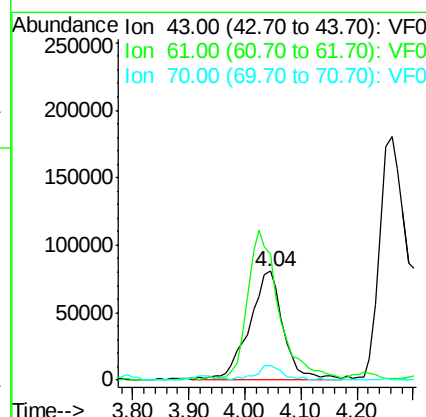
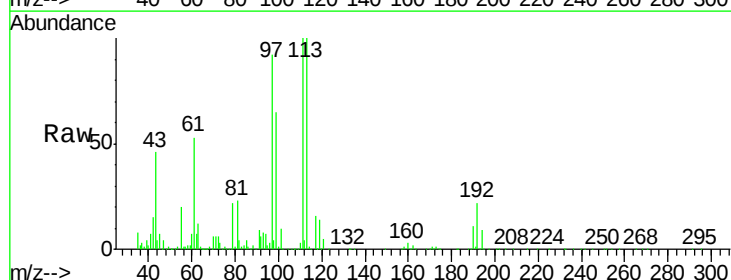
Manual Integrations
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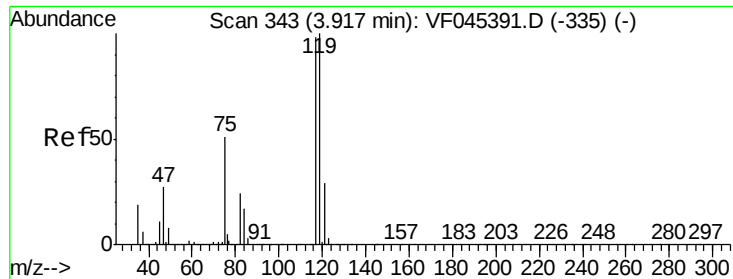
MMDadoda
 9/17/2015 12:51:41 PM



#36
 Ethyl Acetate
 Concen: 46.66 ug/l
 RT: 4.04 min Scan# 356
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
43	100		
61	115.0	49.4	74.0#
70	13.4	10.8	16.2





#37

Carbon Tetrachloride

Concen: 52.85 ug/l

RT: 3.93 min Scan# 344

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

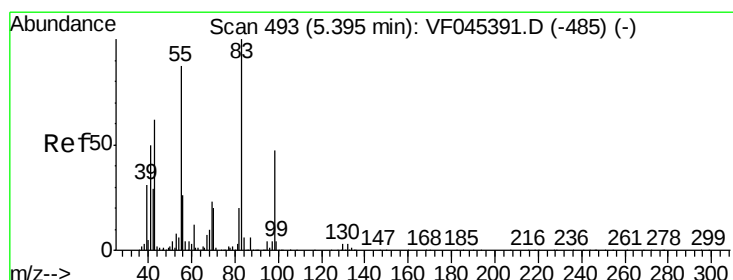
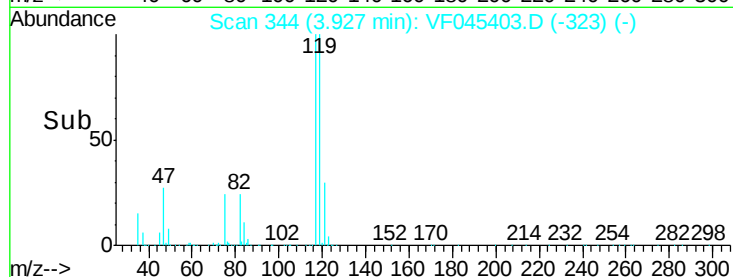
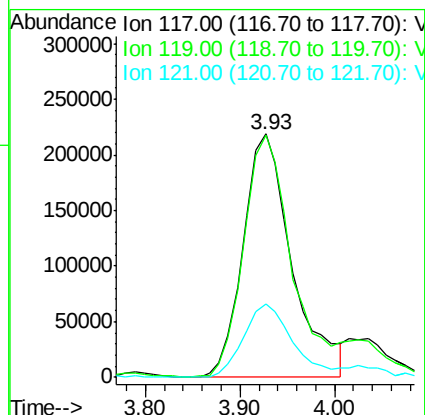
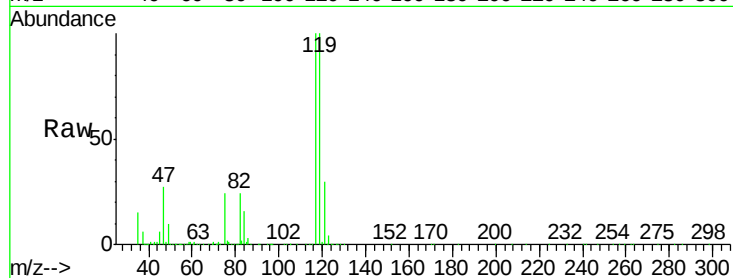
ClientSampleId :

VSTDCCC050EC

Tot Ion:	117	Resp:	784691
Ion Ratio	Lower	Upper	
117	100		
119	99.5	77.8	116.8
121	30.3	25.4	38.0

Manual Integrations
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#38

Methylcyclohexane

Concen: 50.25 ug/l

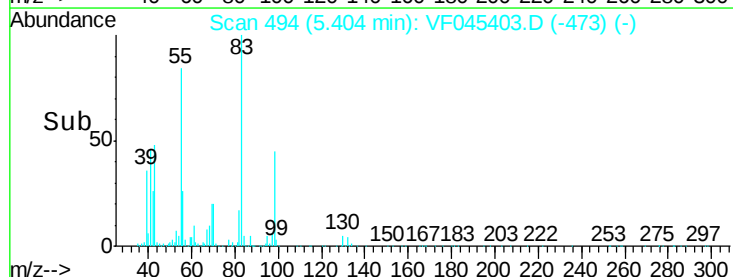
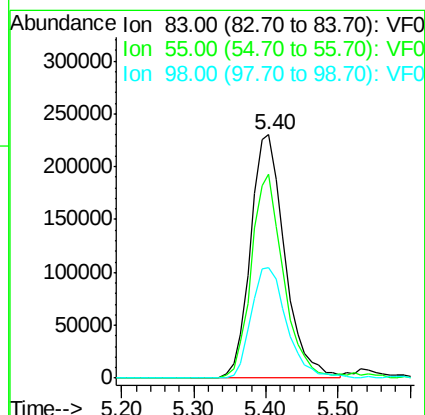
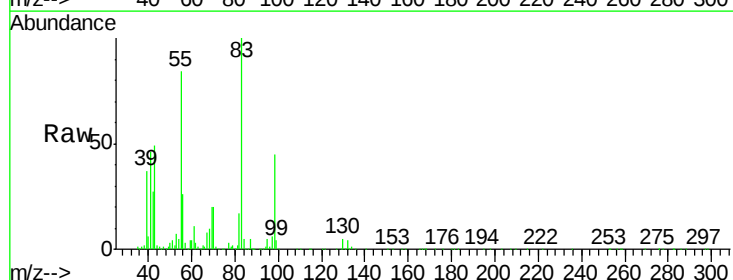
RT: 5.40 min Scan# 494

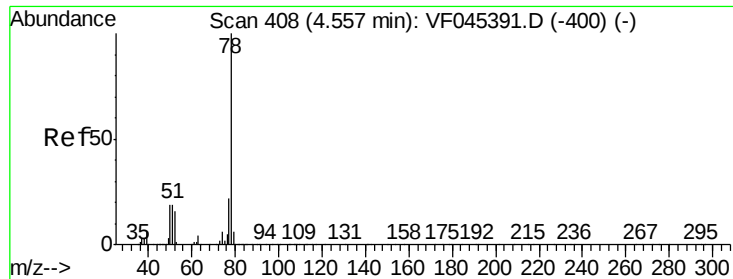
Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion:	83	Resp:	761316
Ion Ratio	Lower	Upper	
83	100		
55	83.8	60.5	90.7
98	45.2	38.1	57.1





#39

Benzene

Concen: 50.75 ug/l

RT: 4.57 min Scan# 409

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 78 Resp: 1672100

Ion Ratio Lower Upper

78 100

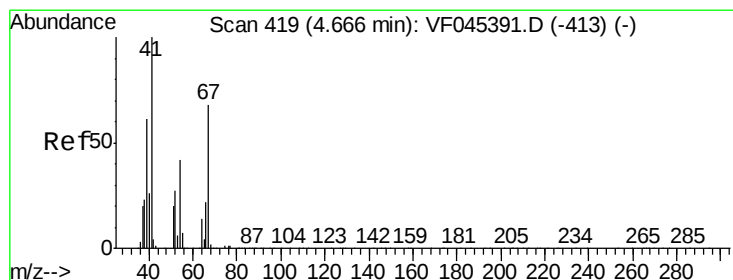
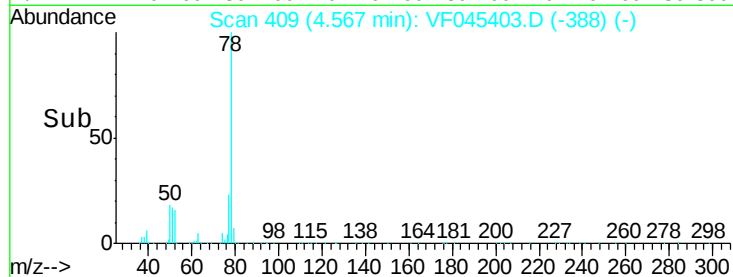
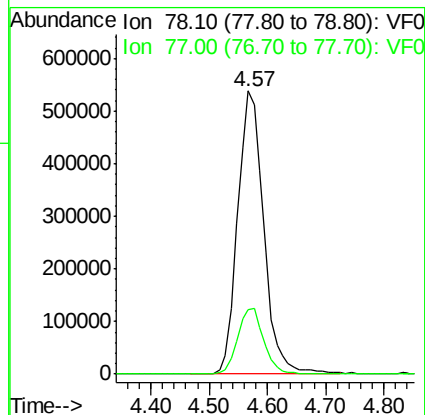
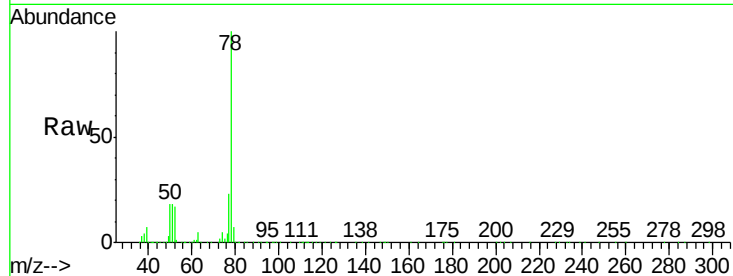
77 23.0 18.6 28.0

Manual Integrations

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#40

Methacrylonitrile

Concen: 46.28 ug/l

RT: 4.68 min Scan# 420

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion: 41 Resp: 156222

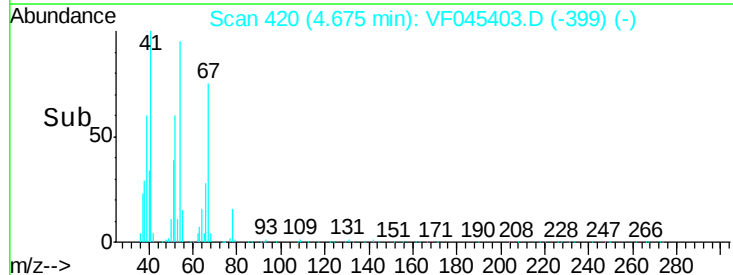
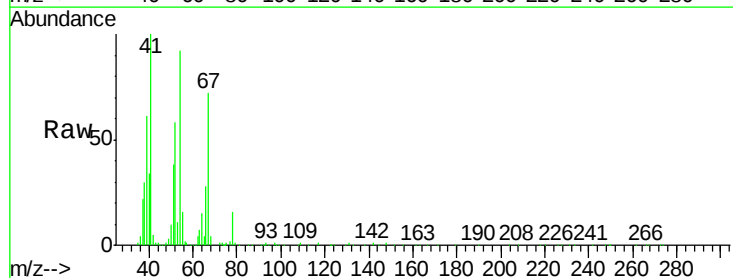
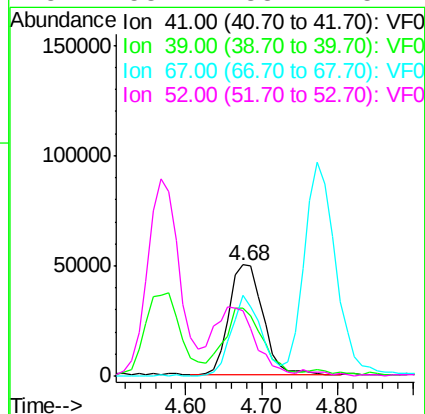
Ion Ratio Lower Upper

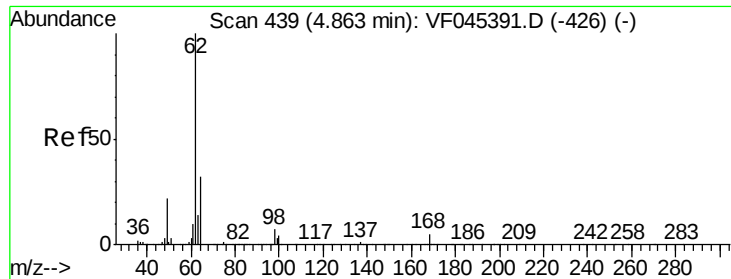
41 100

39 61.2 44.9 67.3

67 72.3 49.0 73.4

52 58.1 38.2 57.2#





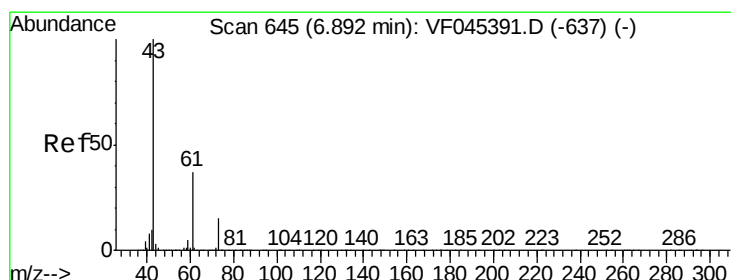
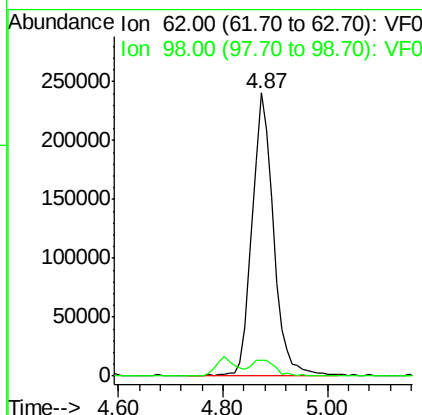
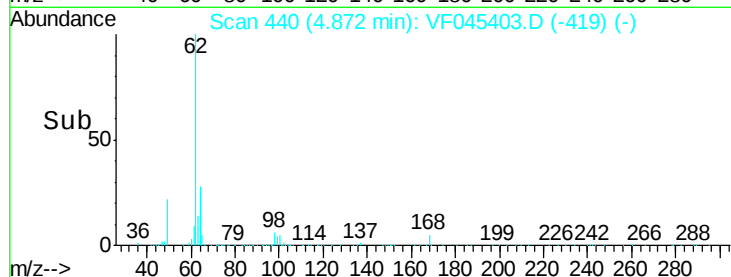
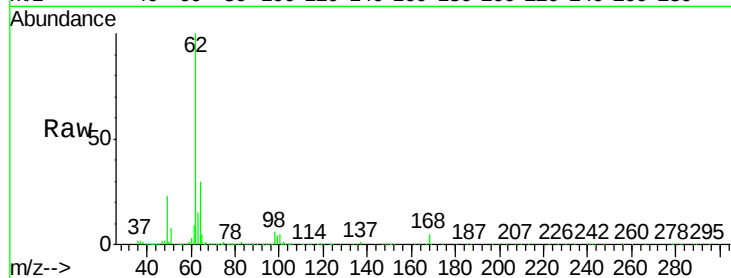
#41
 1,2-Dichloroethane
 Concen: 50.34 ug/l
 RT: 4.87 min Scan# 440
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.8	0.0	17.0

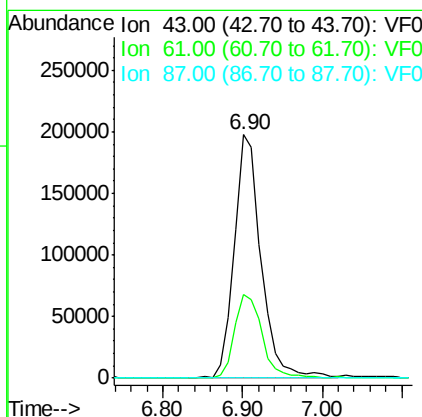
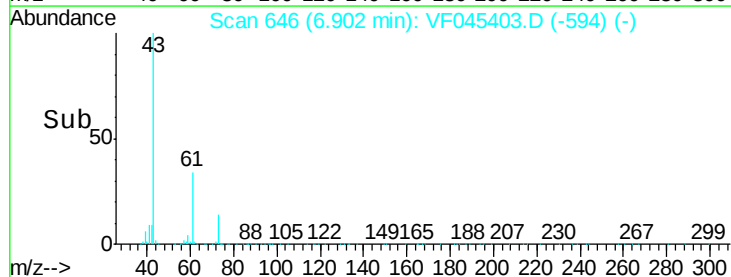
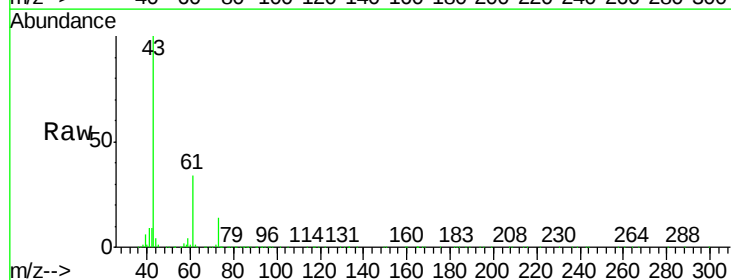
Manual Integrations
 APPROVED

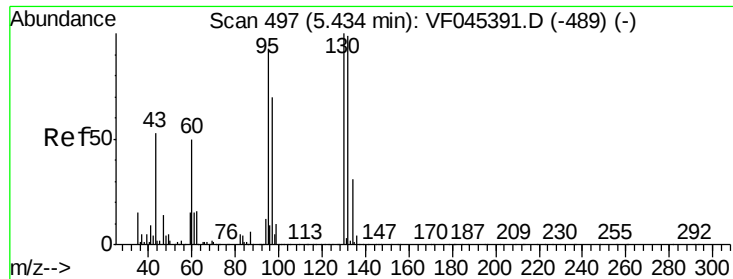
MMDadoda
 9/17/2015 12:51:41 PM



#42
 Isopropyl Acetate
 Concen: 48.94 ug/l
 RT: 6.90 min Scan# 646
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
43	100		
61	34.5	29.8	44.6
87	0.3	0.2	0.2#





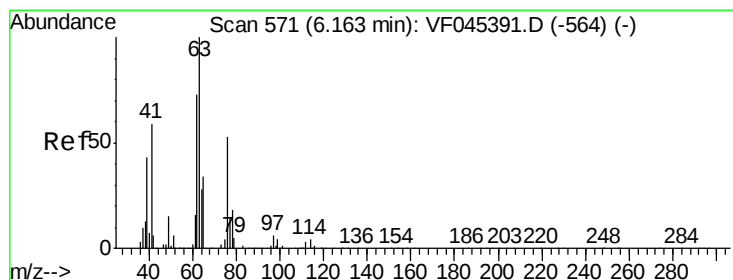
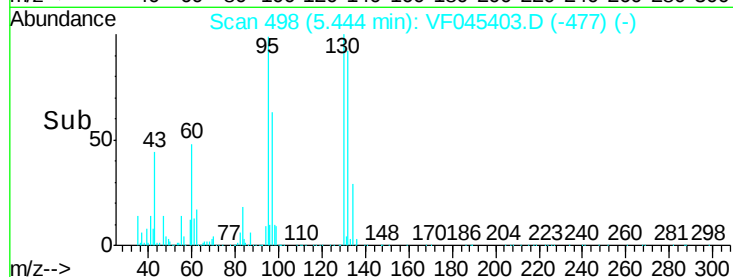
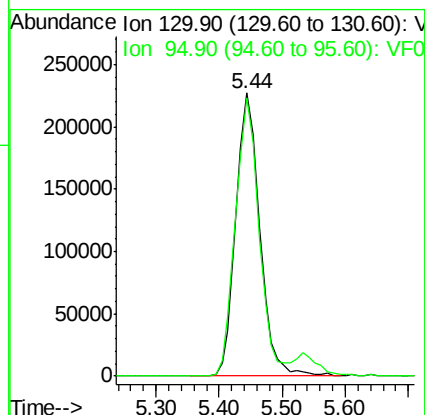
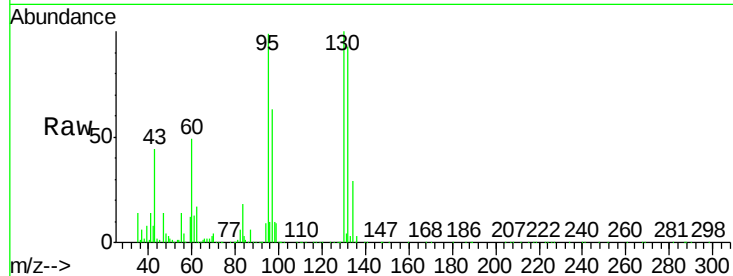
#43
 Trichloroethene
 Concen: 53.06 ug/l
 RT: 5.44 min Scan# 498
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
130	100		597120		
95	98.5	0.0	192.2		

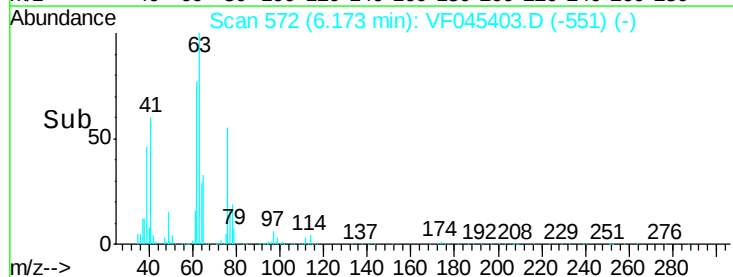
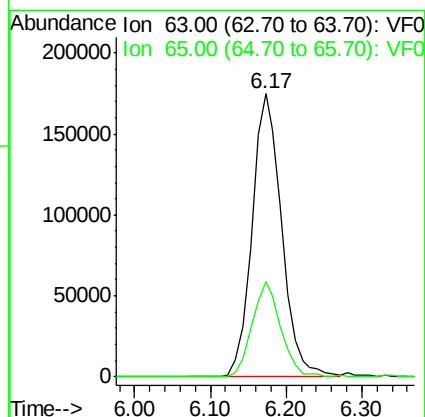
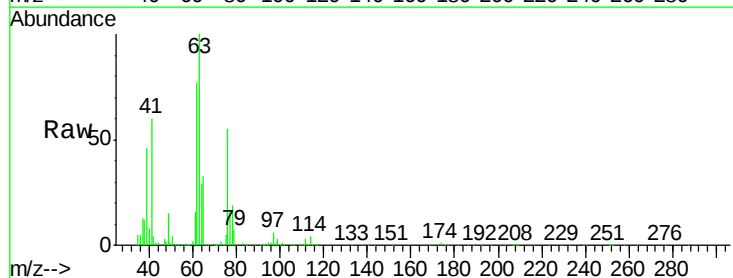
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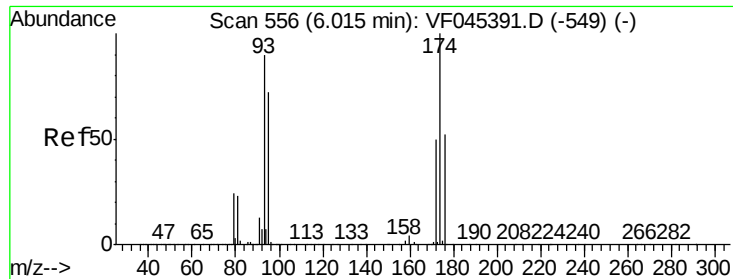
MMDadoda
 9/17/2015 12:51:41 PM



#44
 1,2-Dichloropropane
 Concen: 49.58 ug/l
 RT: 6.17 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		475954		
65	33.5	25.6	38.4		





#45

Dibromomethane

Concen: 49.32 ug/l

RT: 6.02 min Scan# 557

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

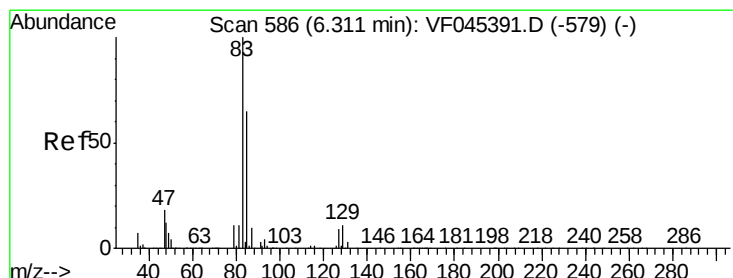
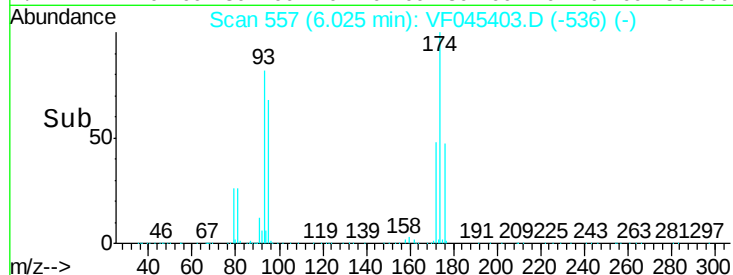
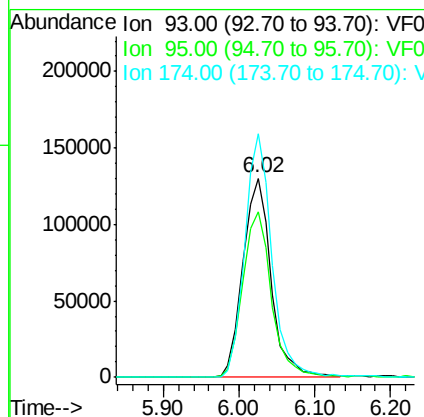
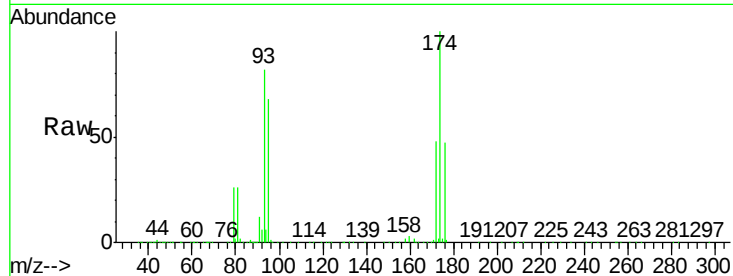
ClientSampleId :

VSTDCCC050EC

Tot Ion:	93	Resp:	336937
Ion Ratio	Lower	Upper	
93	100		
95	83.2	69.8	104.6
174	122.3	90.5	135.7

Manual Integrations
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#46

Bromodichloromethane

Concen: 51.01 ug/l

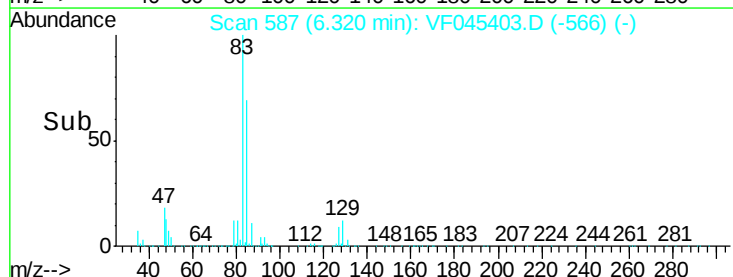
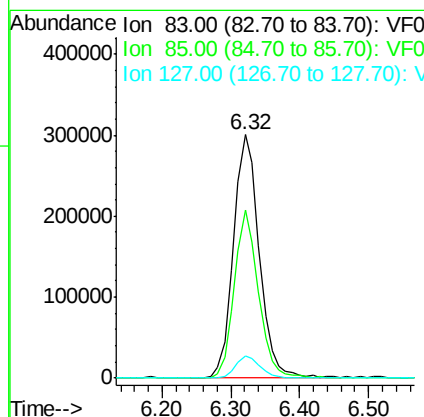
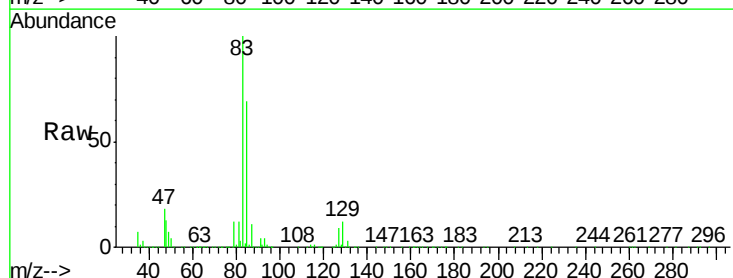
RT: 6.32 min Scan# 587

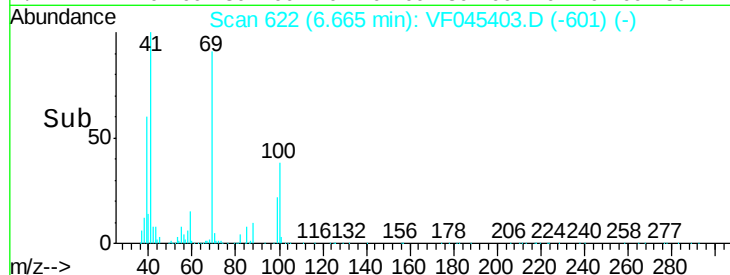
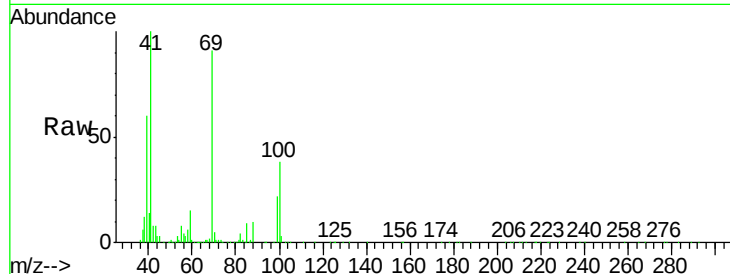
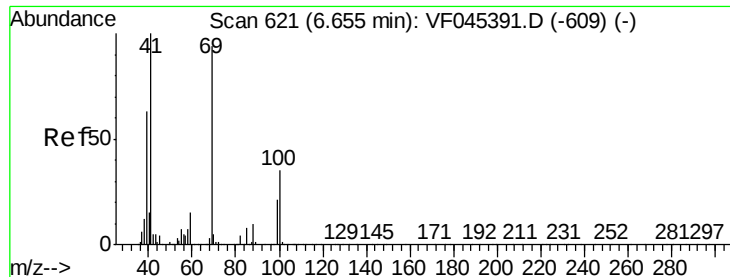
Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion:	83	Resp:	780281
Ion Ratio	Lower	Upper	
83	100		
85	68.8	50.6	75.8
127	9.2	7.7	11.5





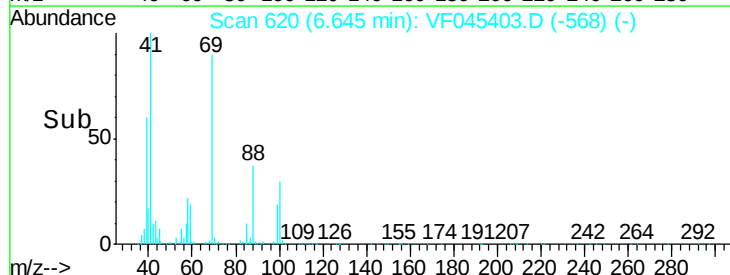
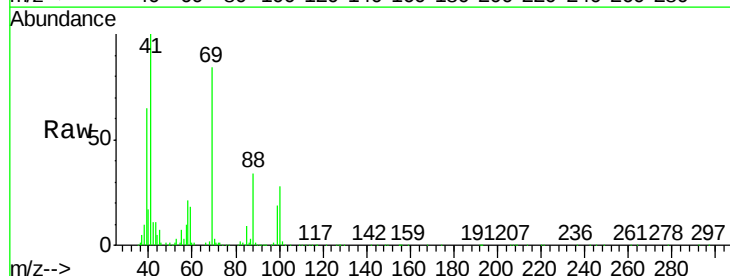
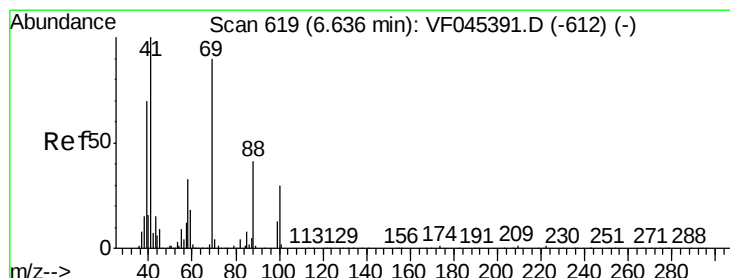
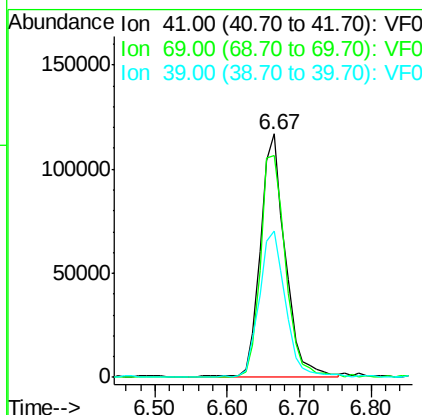
#47
Methvl methacrvlate
Concen: 49.23 ug/l
RT: 6.67 min Scan# 622
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tot Ion	Ratio	Resp	Lower	Upper
41	100	280784		
69	91.0	63.3	94.9	
39	60.2	48.9	73.3	

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

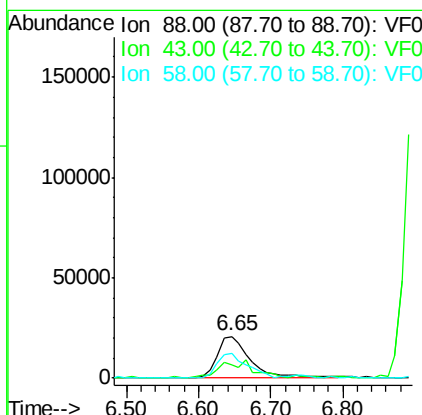
Manual Integrations
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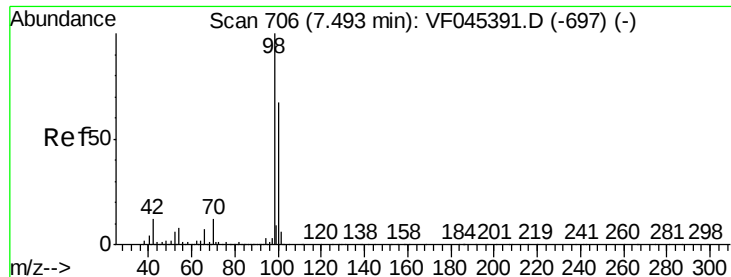
MMDadoda
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#48
1,4-Dioxane
Concen: 963.69 ug/l
RT: 6.65 min Scan# 620
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	65834		
43	32.1	34.5	51.7#	
58	59.9	46.5	69.7	





#49

Toluene-d8

Concen: 51.61 ug/l

RT: 7.50 min Scan# 707

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 98 Resp: 1749814

Ion Ratio Lower Upper

98 100

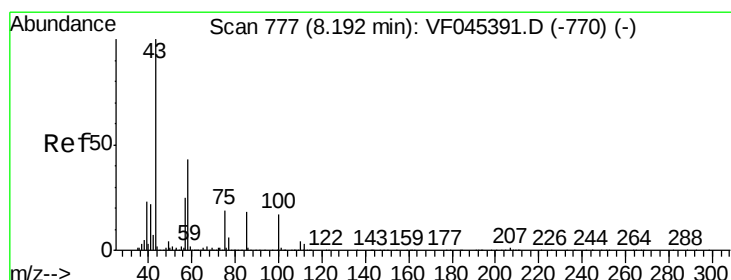
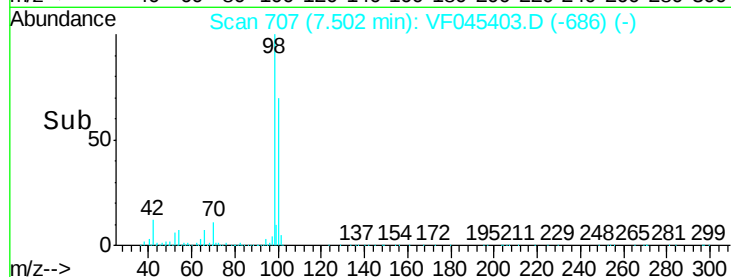
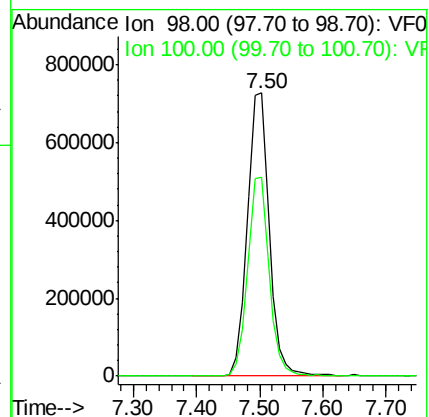
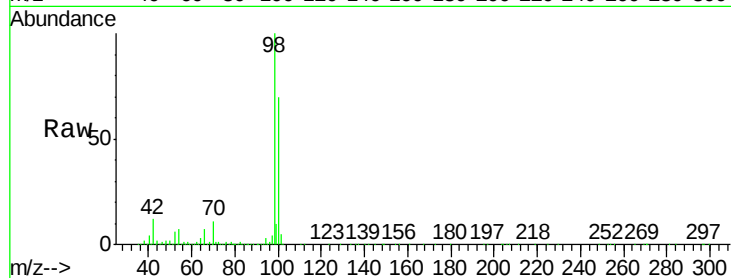
100 70.4 54.4 81.6

Manual Integrations

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#50

4-Methyl-2-Pentanone

Concen: 236.65 ug/l

RT: 8.20 min Scan# 778

Delta R.T. 0.01 min

Lab File: VF045403.D

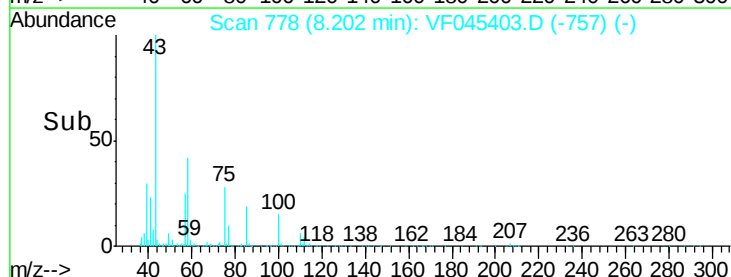
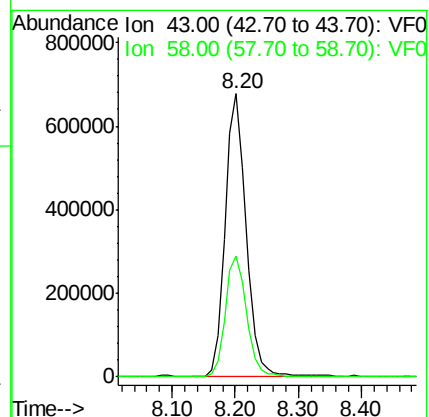
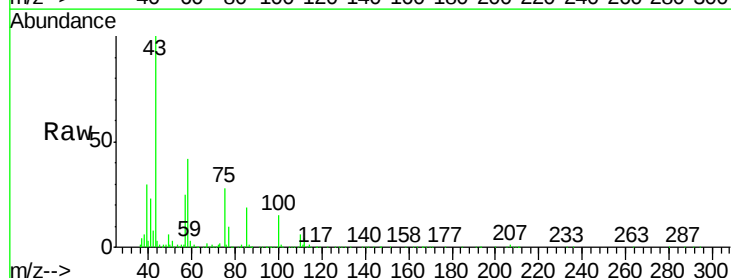
Acq: 16 Sep 2015 22:00

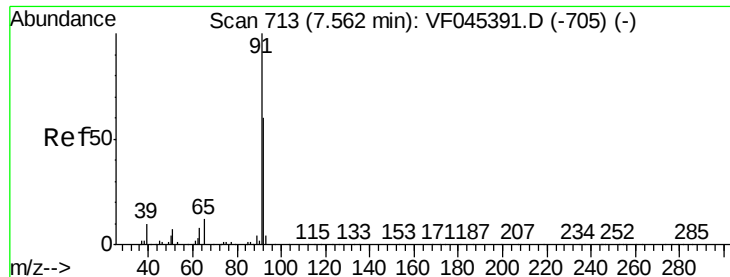
Tgt Ion: 43 Resp: 1581122

Ion Ratio Lower Upper

43 100

58 42.5 33.6 50.4





#51

Toluene

Concen: 50.98 ug/l

RT: 7.57 min Scan# 714

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 92 Resp: 1294445

Ion Ratio Lower Upper

92 100

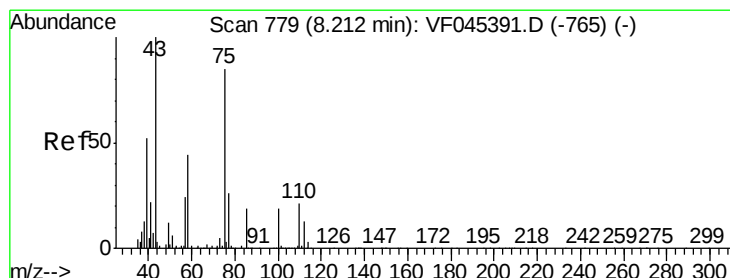
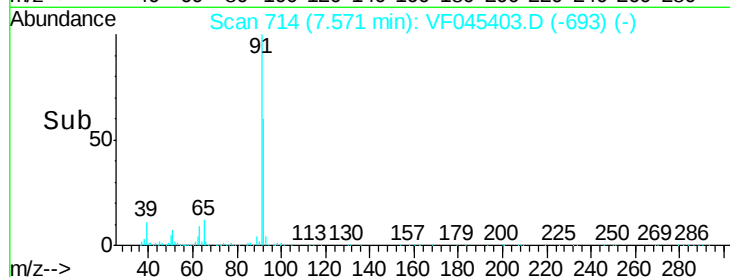
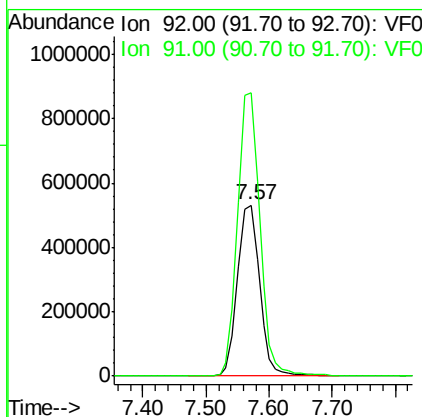
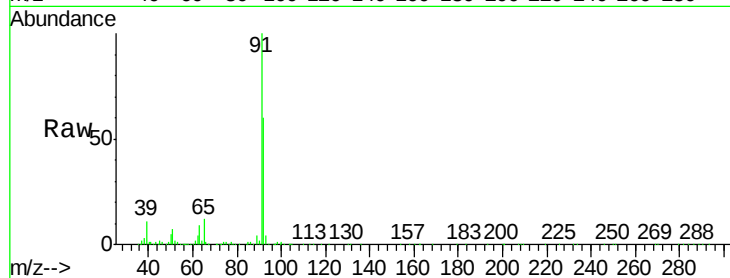
91 165.7 133.4 200.0

Manual Integrations

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#52

t-1,3-Dichloropropene

Concen: 52.37 ug/l

RT: 8.21 min Scan# 779

Delta R.T. -0.00 min

Lab File: VF045403.D

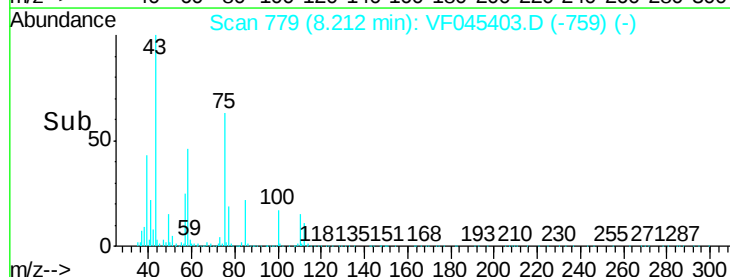
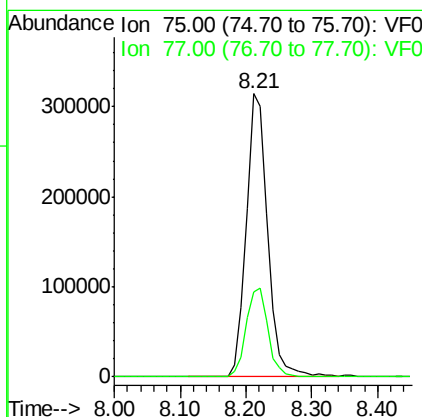
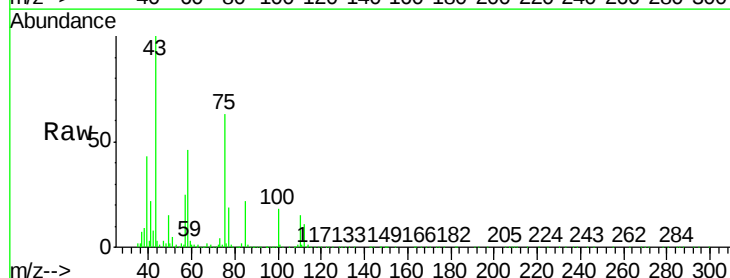
Acq: 16 Sep 2015 22:00

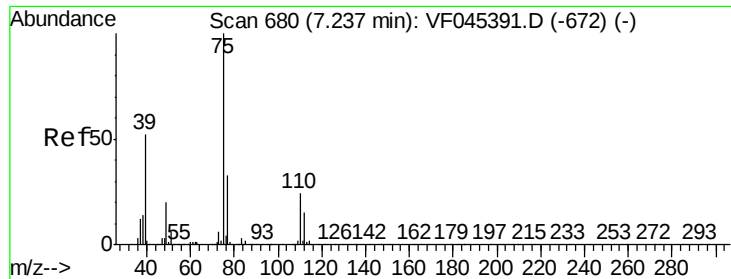
Tgt Ion: 75 Resp: 720063

Ion Ratio Lower Upper

75 100

77 30.2 28.1 42.1





#53

cis-1,3-Dichloropropene

Concen: 51.90 ug/l

RT: 7.25 min Scan# 681

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

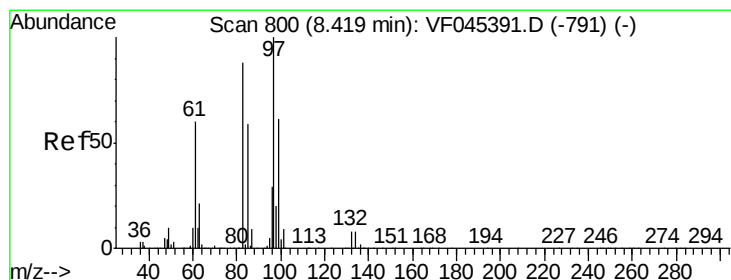
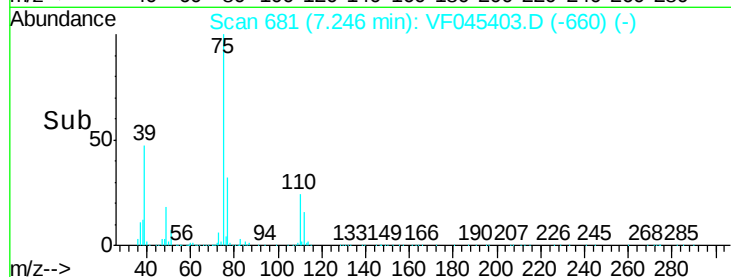
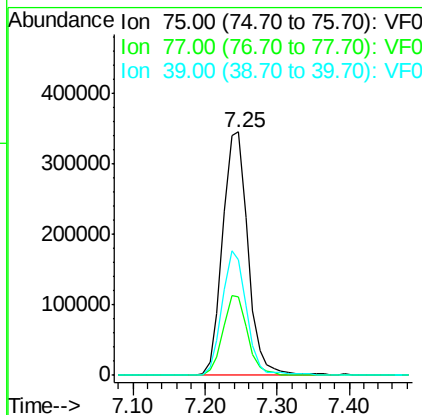
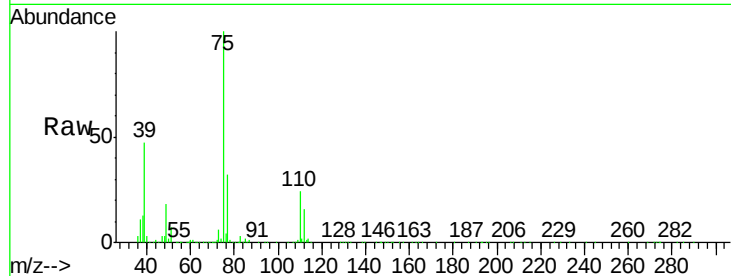
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	842648
Ion Ratio		Lower	Upper
75	100		
77	32.3	25.5	38.3
39	47.4	41.6	62.4

Manual Integrations
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#54

1,1,2-Trichloroethane

Concen: 50.18 ug/l

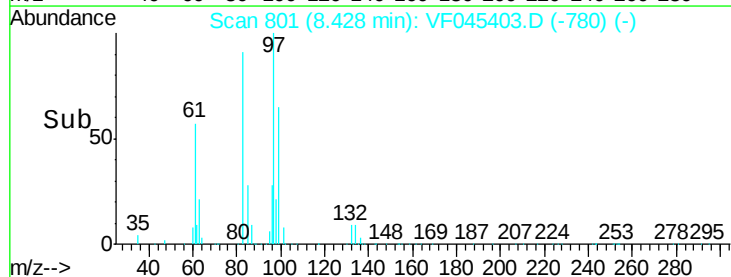
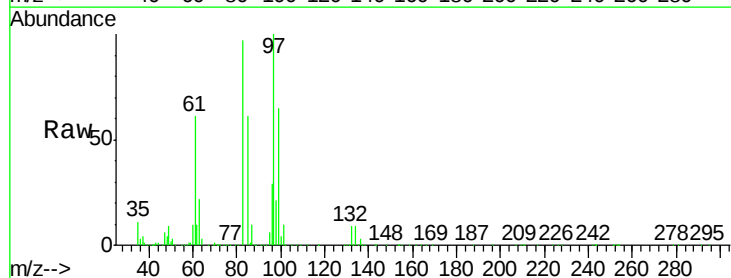
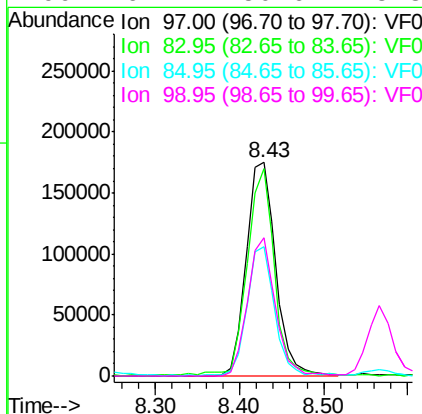
RT: 8.43 min Scan# 801

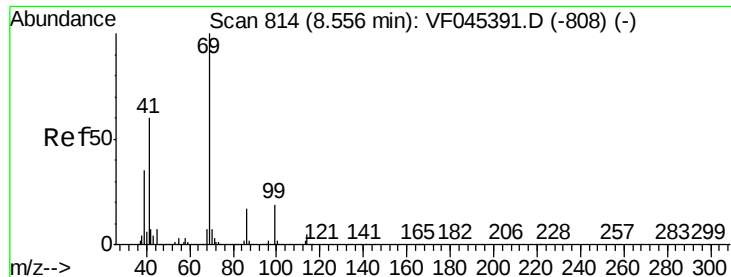
Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion:	97	Resp:	430892
Ion Ratio		Lower	Upper
97	100		
83	96.9	70.1	105.1
85	60.8	47.4	71.2
99	64.7	50.6	75.8





#55

Ethyl methacrylate

Concen: 48.74 ug/l

RT: 8.57 min Scan# 815

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

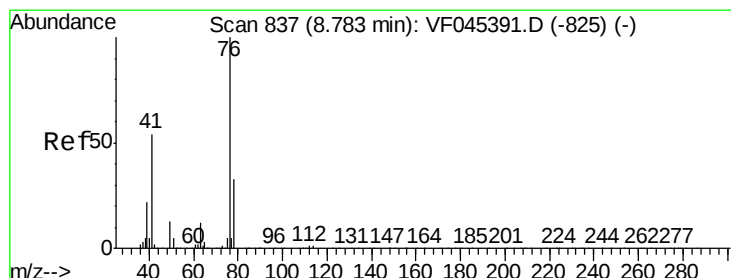
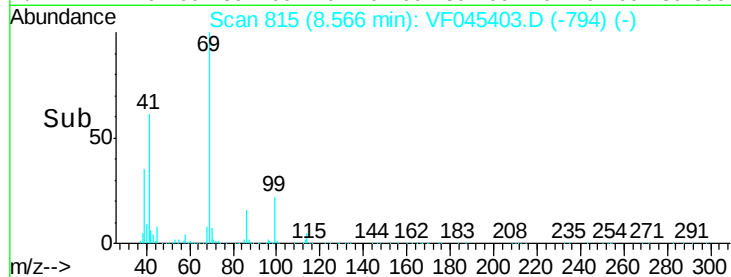
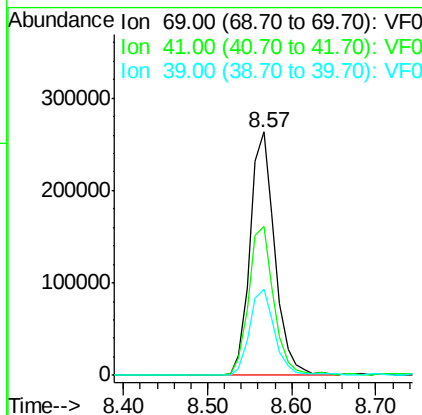
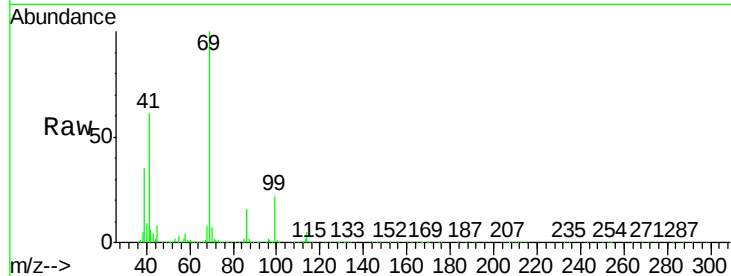
ClientSampleId :

VSTDCCC050EC

Tot Ion:	69	Resp:	544516
Ion Ratio	Lower	Upper	
69	100		
41	61.0	51.0	76.4
39	35.3	29.1	43.7

Manual Integrations
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#56

1,3-Dichloropropane

Concen: 50.18 ug/l

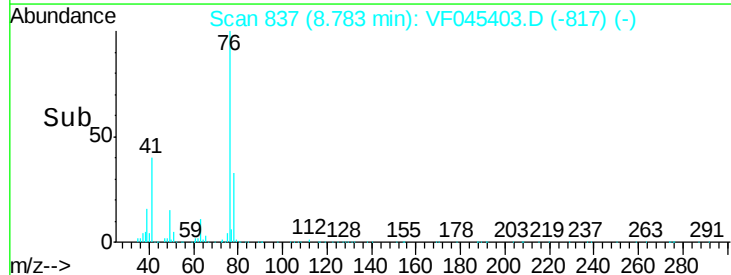
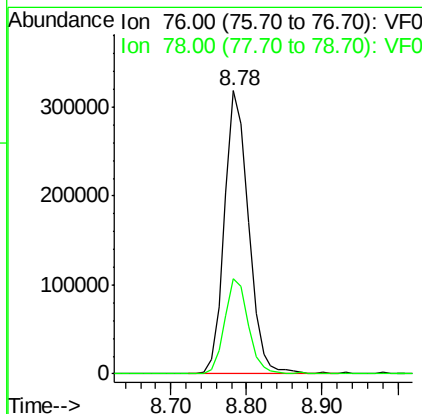
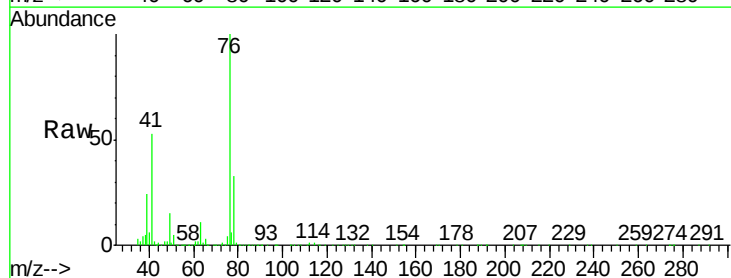
RT: 8.78 min Scan# 837

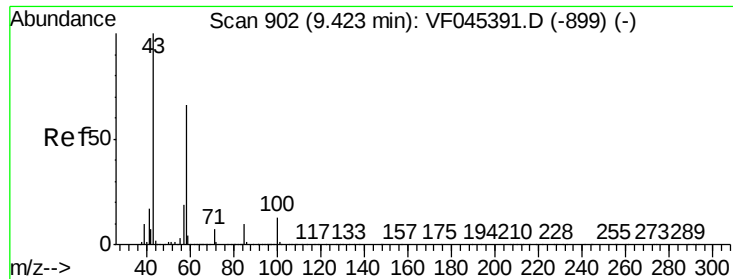
Delta R.T. -0.00 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion:	76	Resp:	702858
Ion Ratio	Lower	Upper	
76	100		
78	33.5	26.1	39.1





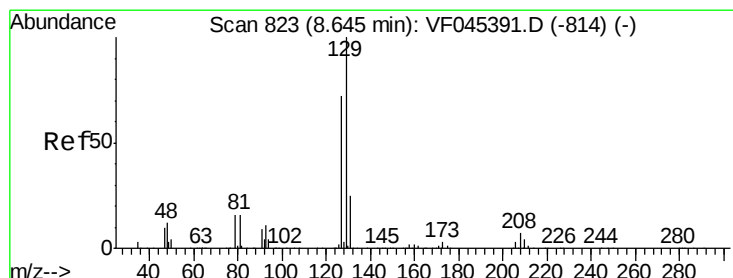
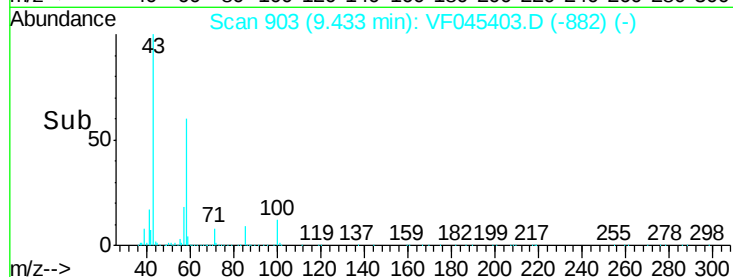
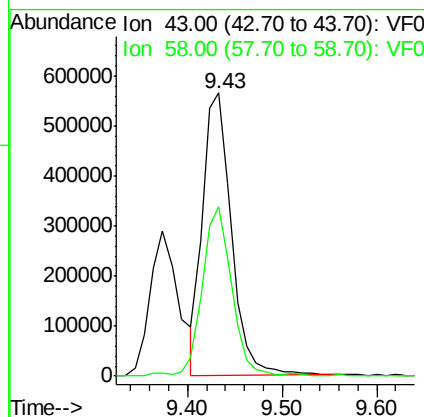
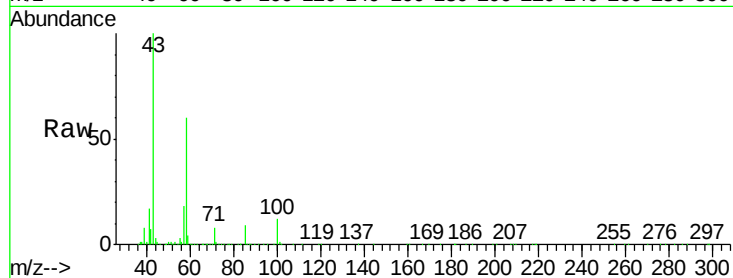
#58
2-Hexanone
Concen: 225.75 ug/l
RT: 9.43 min Scan# 903
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1200500
Ion Ratio Lower Upper
43 100
58 59.9 28.8 86.5

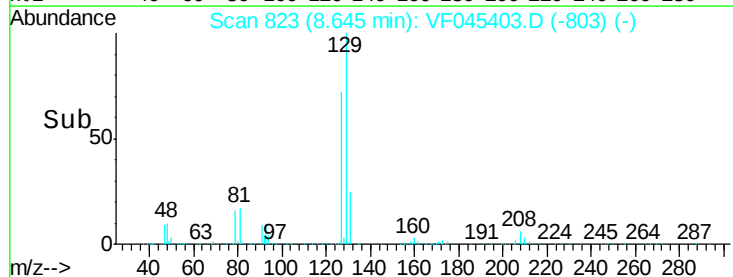
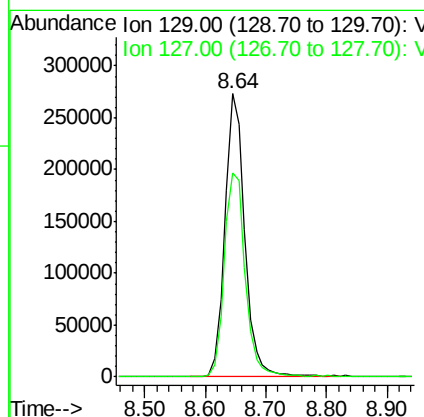
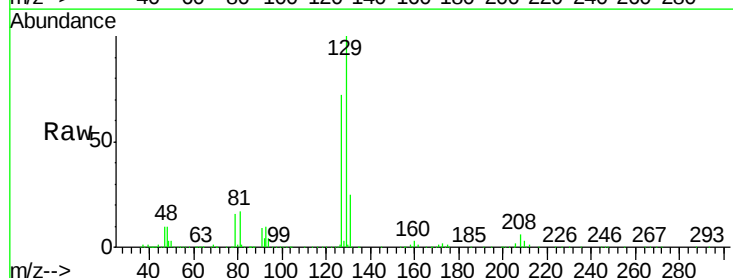
Manual Integrations
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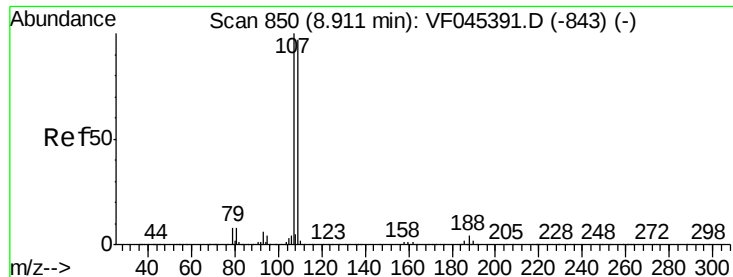
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#59
Dibromochloromethane
Concen: 50.86 ug/l
RT: 8.64 min Scan# 823
Delta R.T. -0.00 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion: 129 Resp: 618999
Ion Ratio Lower Upper
129 100
127 72.2 38.2 114.6





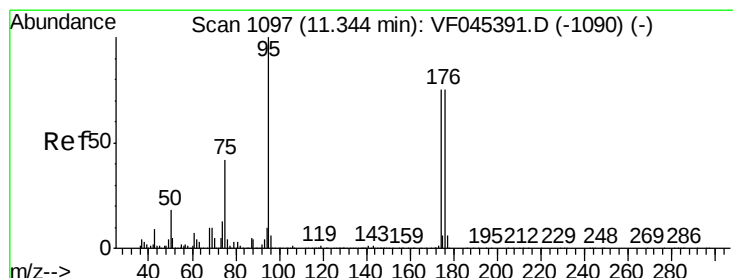
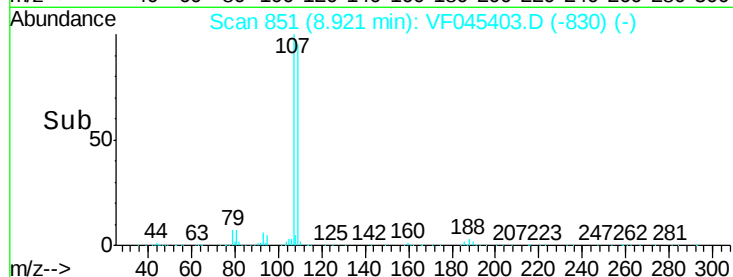
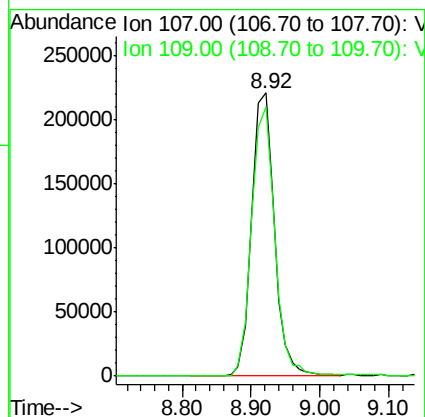
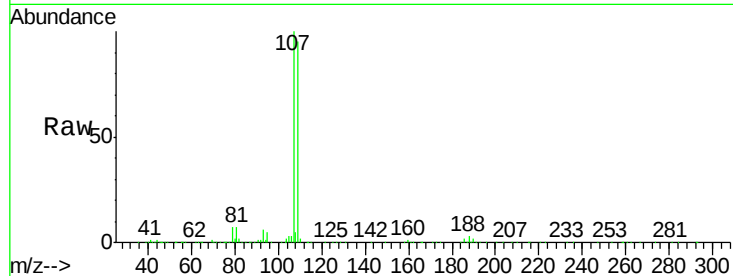
#60
 1,2-Dibromoethane
 Concen: 52.66 ug/l
 RT: 8.92 min Scan# 851
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	79.4	119.0

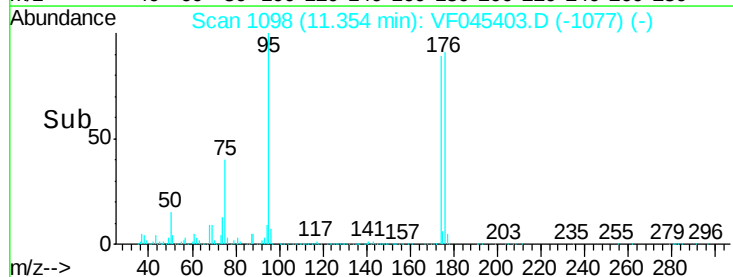
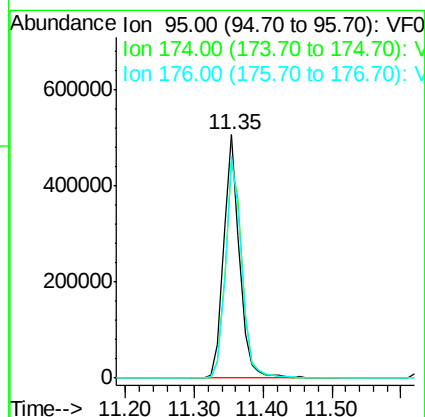
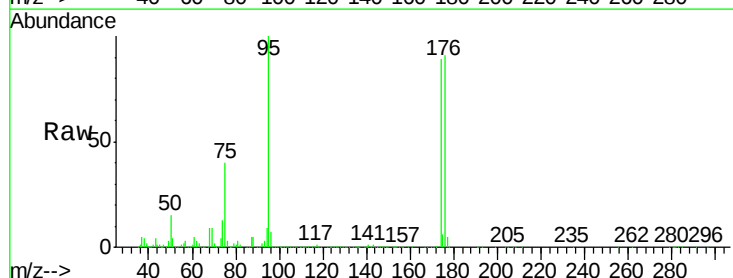
Manual Integrations
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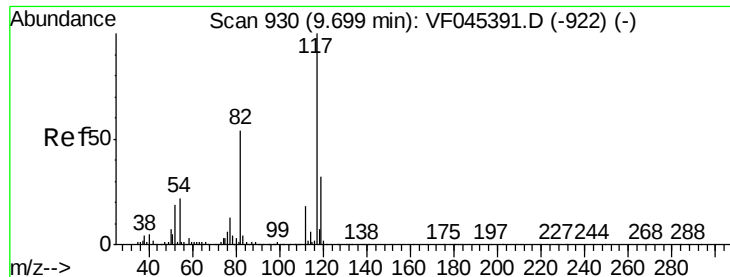
MMDadoda
 9/17/2015 12:51:41 PM



#61
 4-Bromofluorobenzene
 Concen: 49.33 ug/l
 RT: 11.35 min Scan# 1098
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.0	0.0	177.8
176	91.3	0.0	176.2





#62

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.71 min Scan# 931

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:117 Resp: 1457411

Ion Ratio Lower Upper

117 100

82 52.0 45.0 67.6

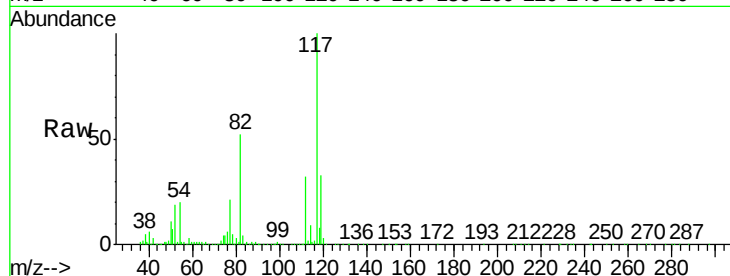
119 32.7 26.2 39.4

Manual Integrations

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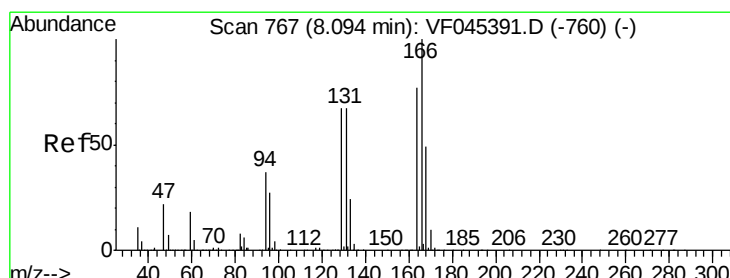
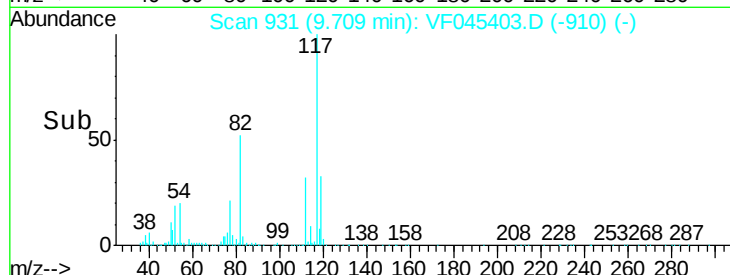
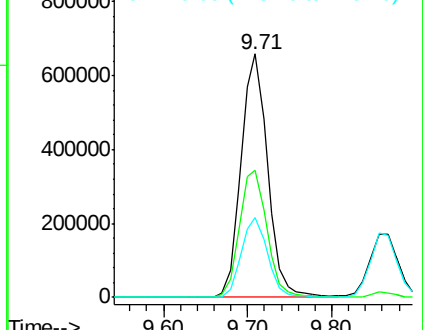
9/17/2015 12:51:41 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#63

Tetrachloroethene

Concen: 53.61 ug/l

RT: 8.09 min Scan# 767

Delta R.T. -0.00 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion:164 Resp: 620720

Ion Ratio Lower Upper

164 100

166 123.9 106.0 159.0

129 84.2 69.8 104.6

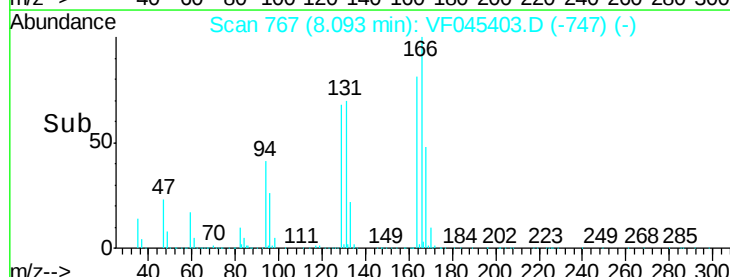
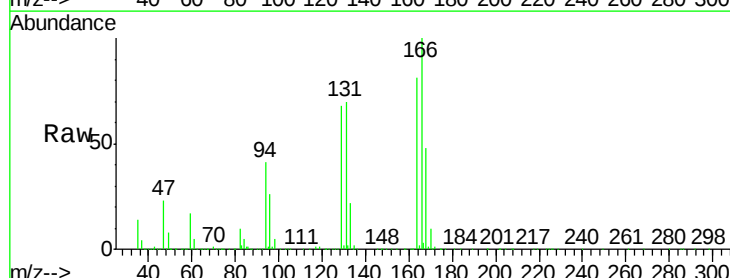
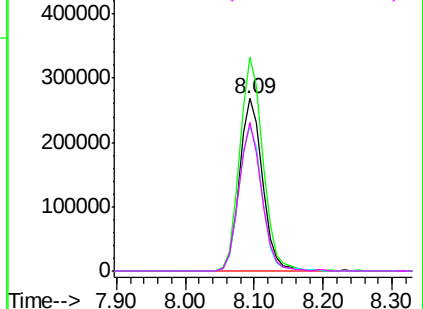
131 86.2 68.2 102.4

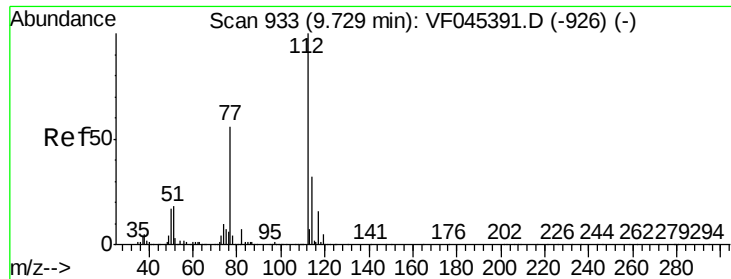
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





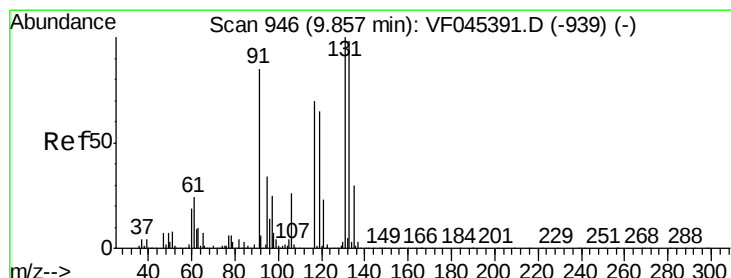
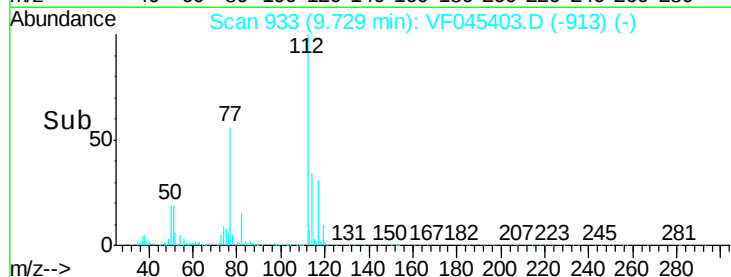
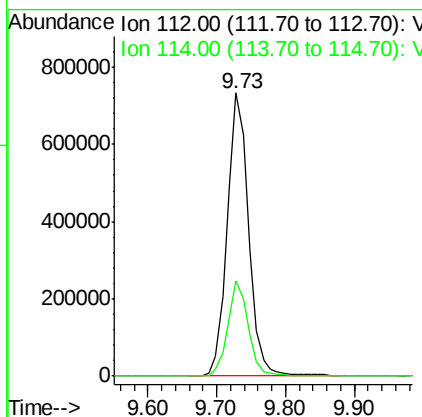
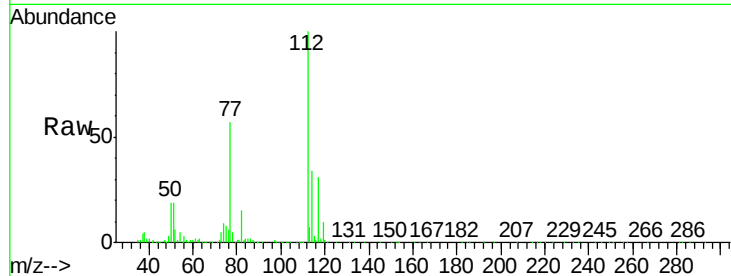
#64
Chlorobenzene
Concen: 51.60 ug/l
RT: 9.73 min Scan# 933
Delta R.T. -0.00 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 1577636
Ion Ratio Lower Upper
112 100
114 33.6 25.6 38.4

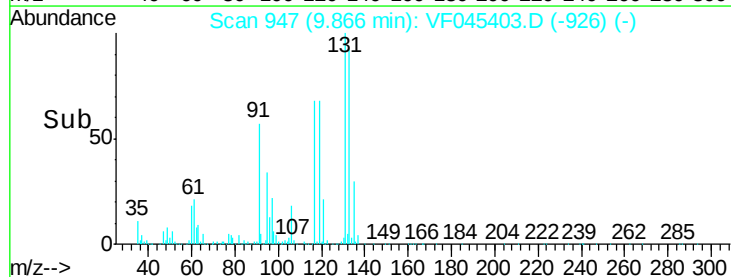
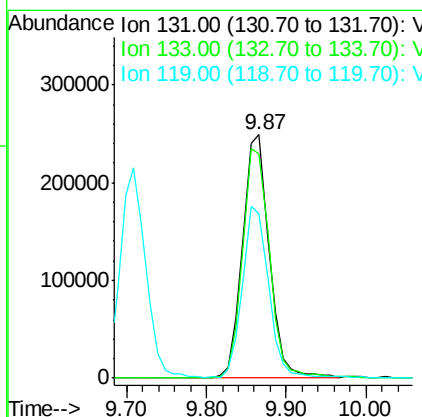
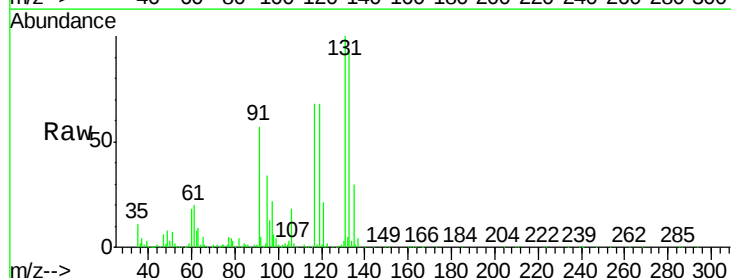
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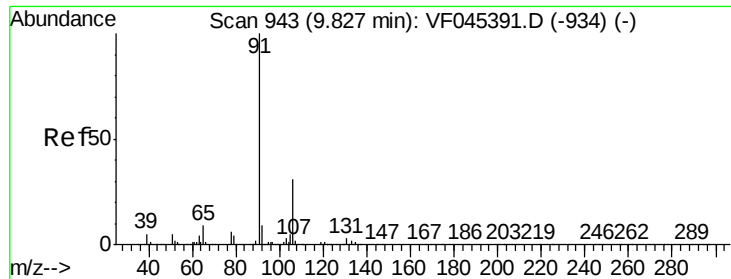
MMDadoda
9/17/2015 12:51:41 PM



#65
1,1,1,2-Tetrachloroethane
Concen: 51.36 ug/l
RT: 9.87 min Scan# 947
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion:131 Resp: 574123
Ion Ratio Lower Upper
131 100
133 92.4 48.1 144.4
119 67.7 34.8 104.5





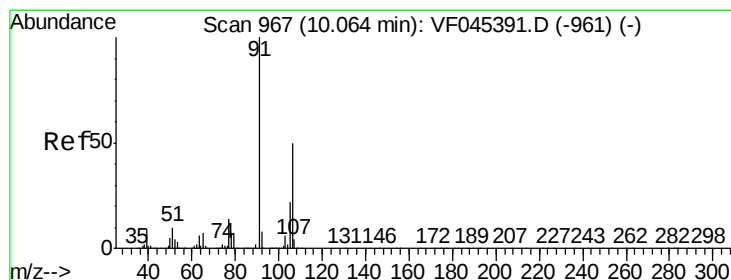
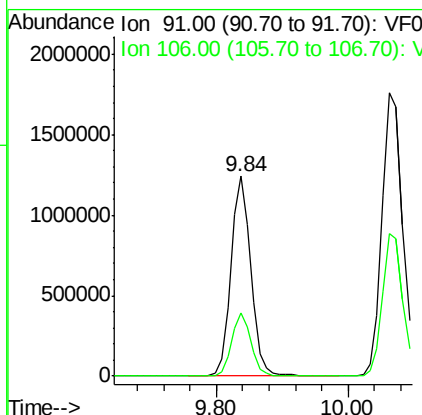
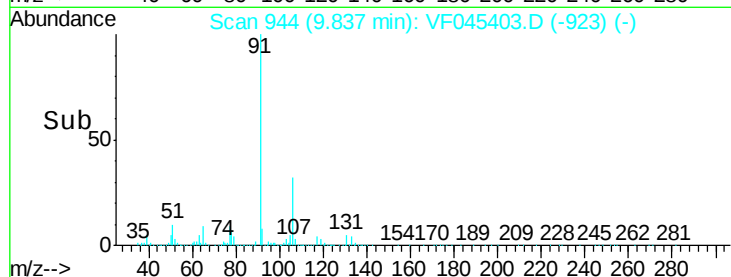
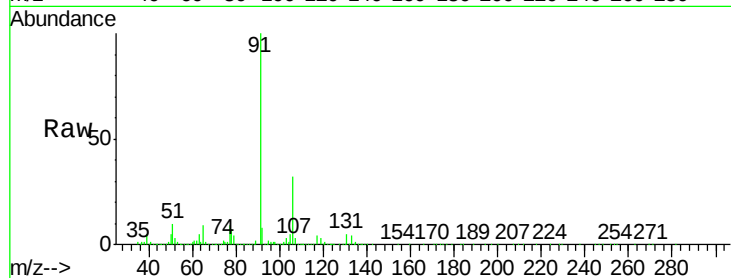
#66
Ethyl Benzene
Concen: 49.82 ug/l
RT: 9.84 min Scan# 944
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 2639223
Ion Ratio Lower Upper
91 100
106 31.9 23.6 35.4

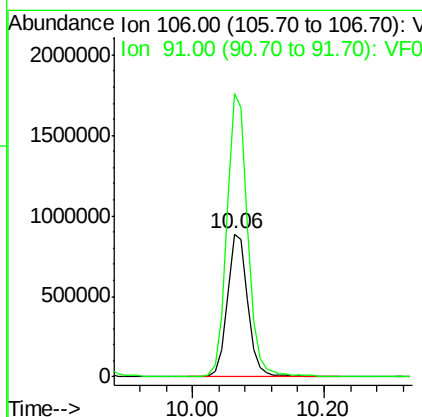
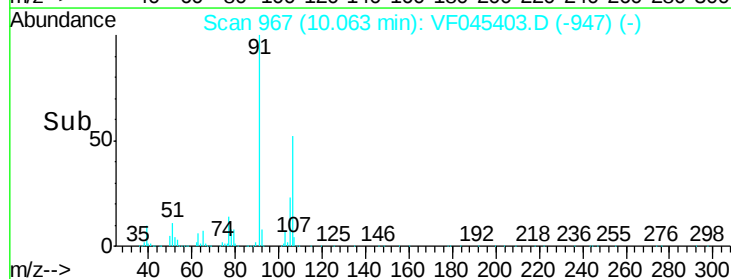
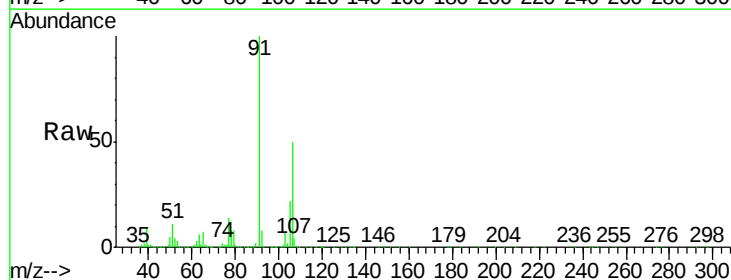
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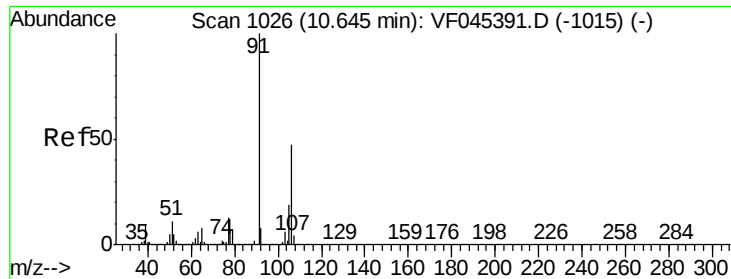
MMDadoda
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#67
m/p-Xylenes
Concen: 101.54 ug/l
RT: 10.06 min Scan# 967
Delta R.T. -0.00 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion:106 Resp: 1928056
Ion Ratio Lower Upper
106 100
91 198.4 166.1 249.1





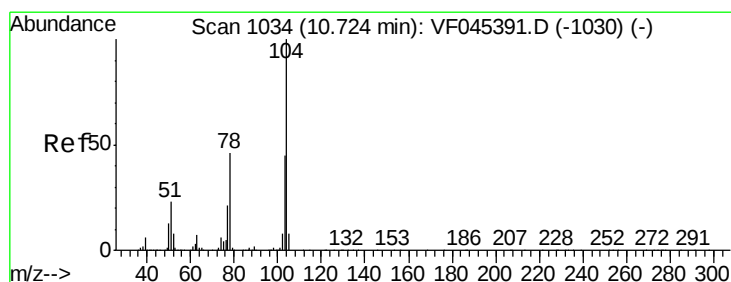
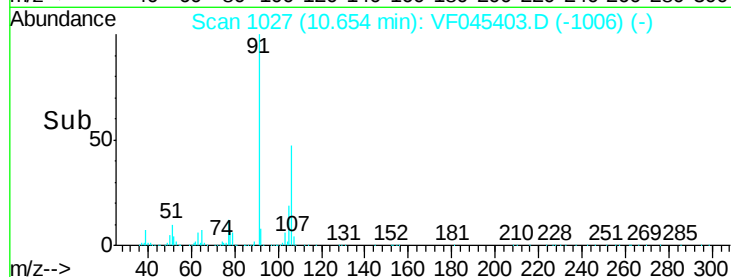
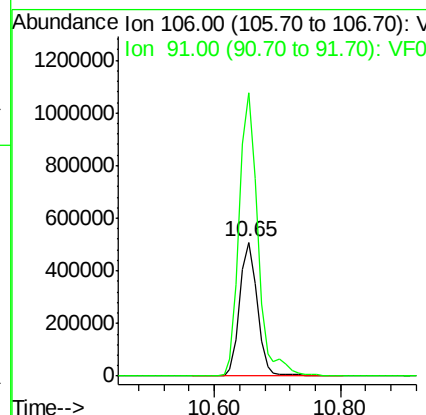
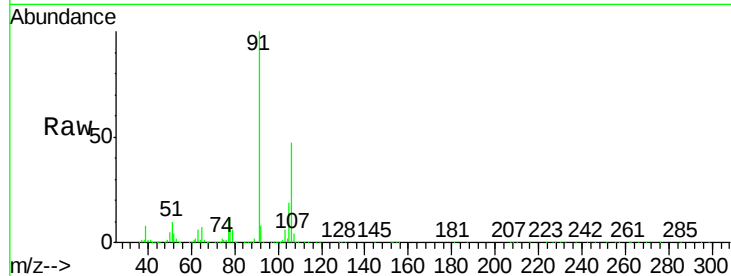
#68
o-Xylene
Concen: 49.64 ug/l
RT: 10.65 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
106	100		
91	211.4	108.1	324.2

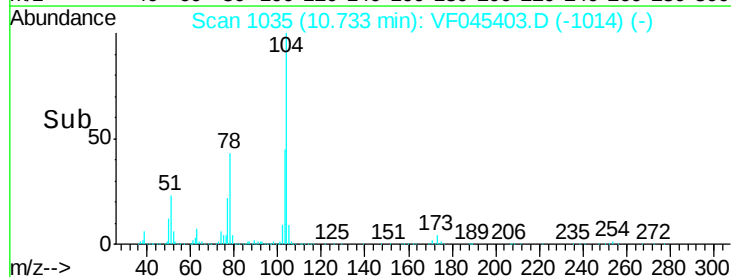
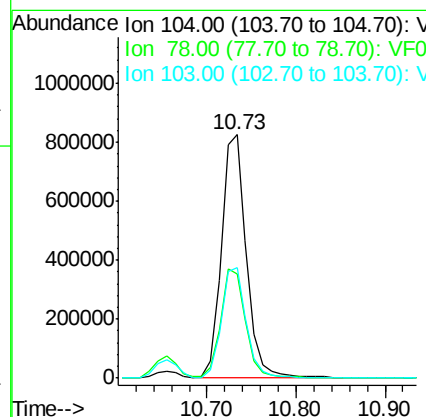
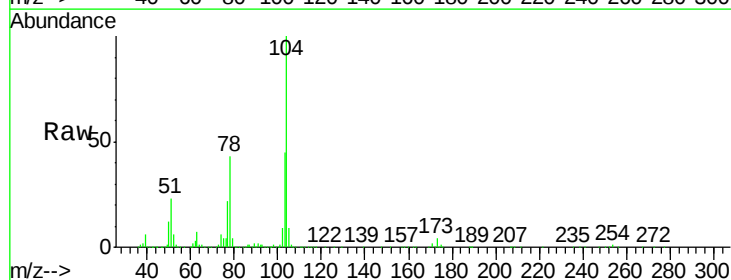
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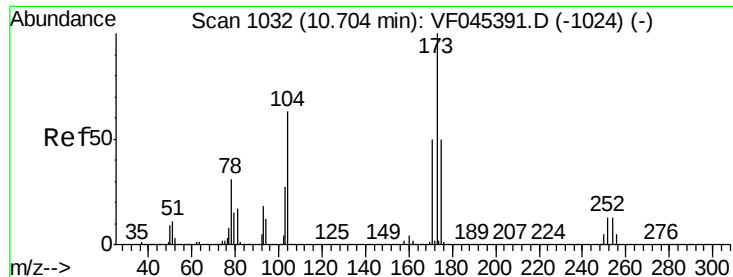
MMDadoda
9/17/2015 12:51:41 PM



#69
Styrene
Concen: 51.19 ug/l
RT: 10.73 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
104	100		
78	42.9	34.2	51.4
103	45.2	36.7	55.1





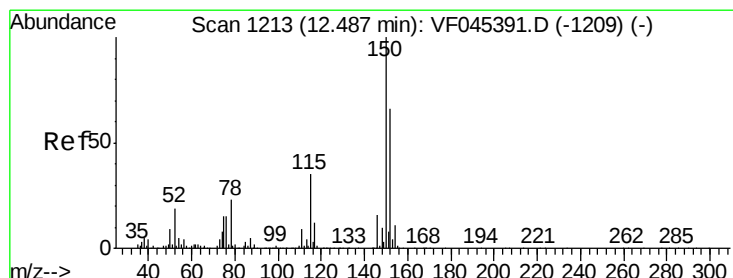
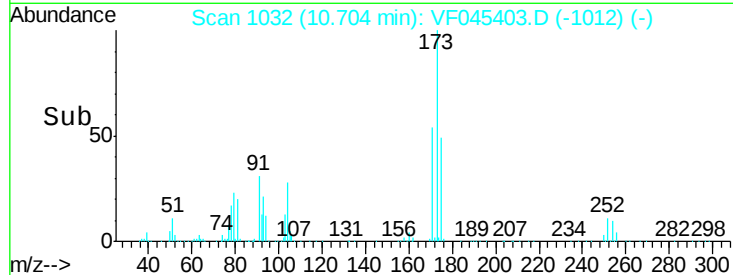
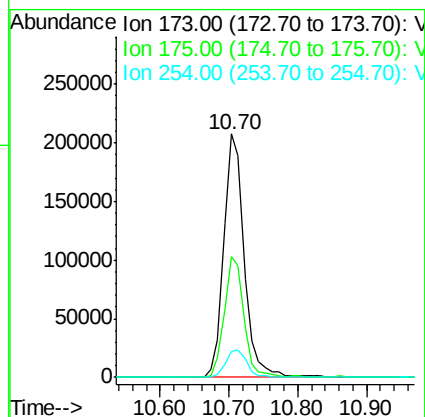
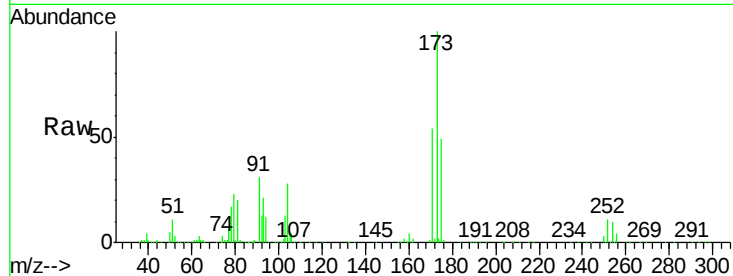
#70
Bromoform
Concen: 51.54 ug/l
RT: 10.70 min Scan# 1032
Delta R.T. -0.00 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	25.7	77.0
254	10.5	9.8	14.6

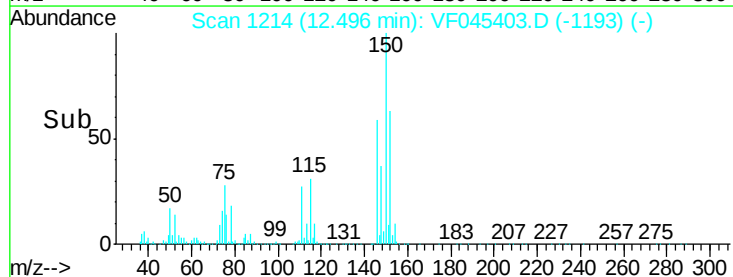
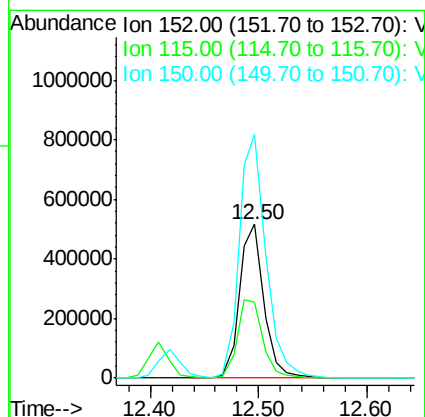
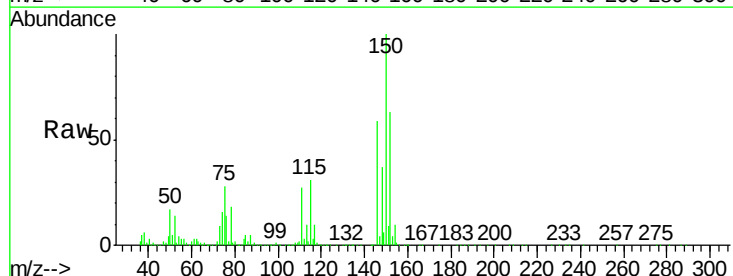
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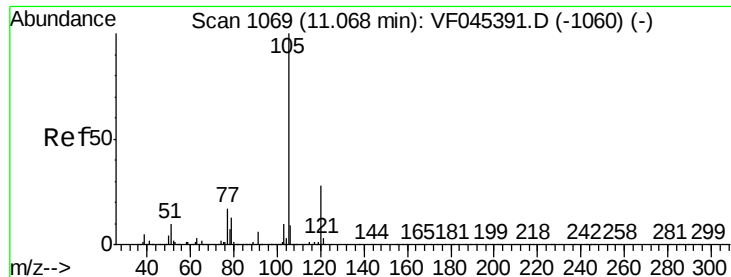
MMDadoda
9/17/2015 12:51:41 PM



#71
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.50 min Scan# 1214
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
152	100		
115	49.1	28.3	85.0
150	158.4	0.0	324.2





#72

Isopropylbenzene

Concen: 52.43 ug/l

RT: 11.07 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 2842995

Ion Ratio Lower Upper

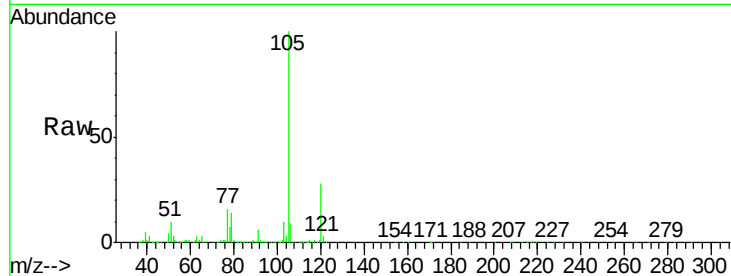
105 100

120 27.6 13.0 39.0

Manual Integrations
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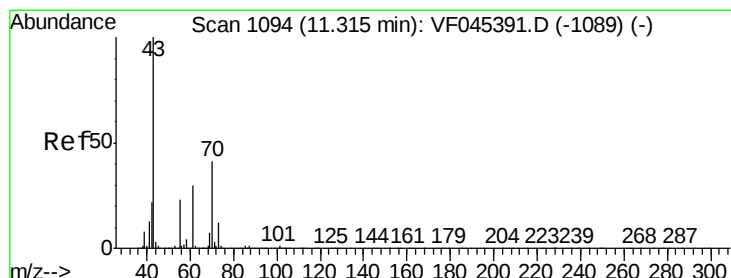
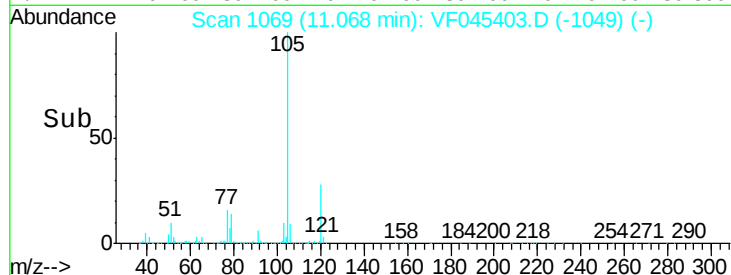
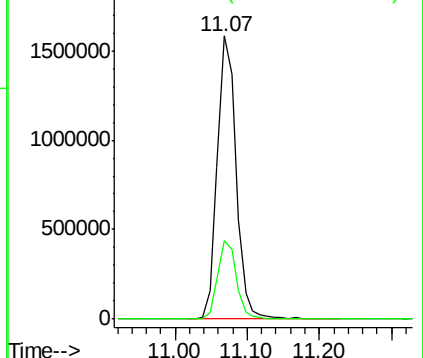
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#73

N-ethyl acetate

Concen: 48.12 ug/l

RT: 11.32 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion: 43 Resp: 723222

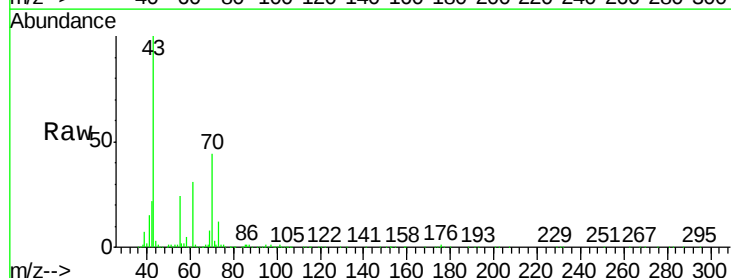
Ion Ratio Lower Upper

43 100

70 44.3 30.0 45.0

55 24.3 16.8 25.2

61 30.9 20.6 30.8#

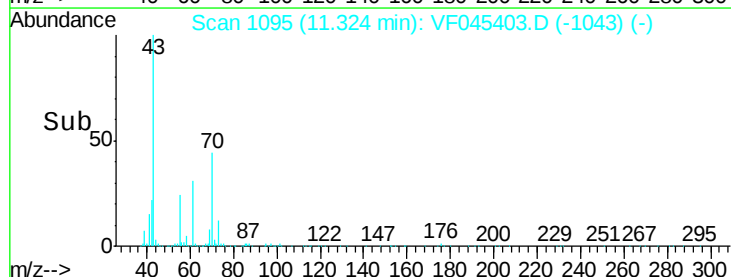
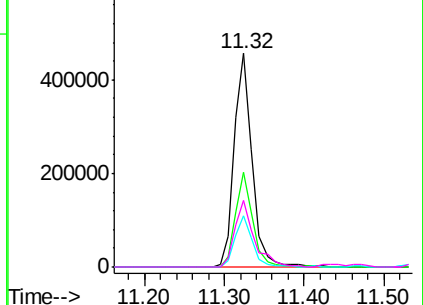


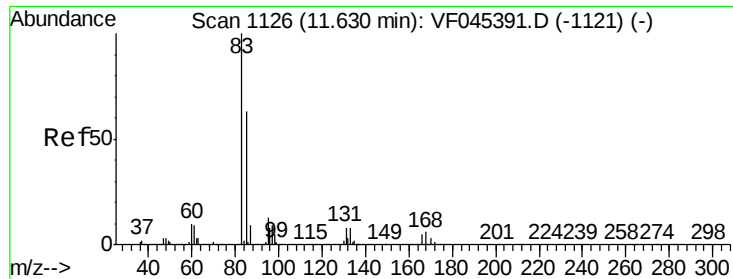
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#74

1,1,2,2-Tetrachloroethane

Concen: 49.40 ug/l

RT: 11.64 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

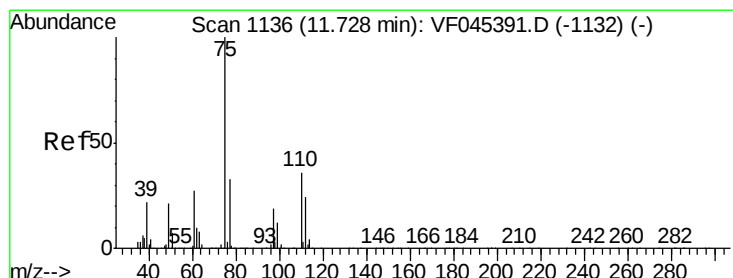
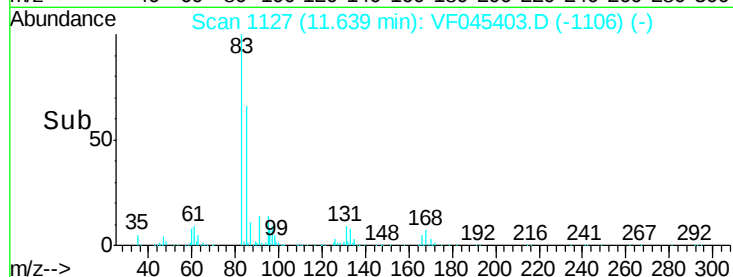
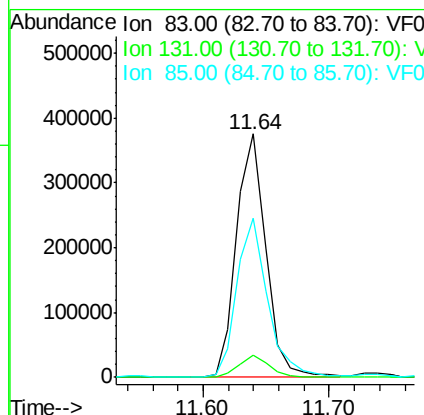
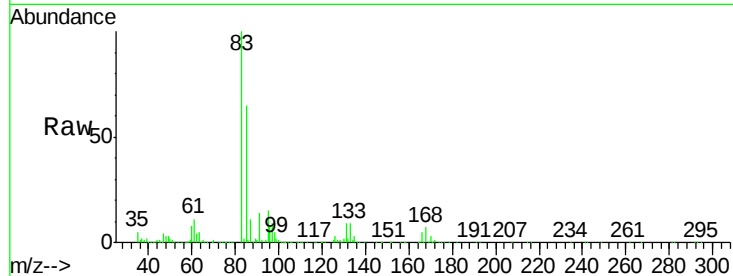
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	607060
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.2	12.6
85	65.2	32.5	97.5

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#75

1,2,3-Trichloropropane

Concen: 50.59 ug/l

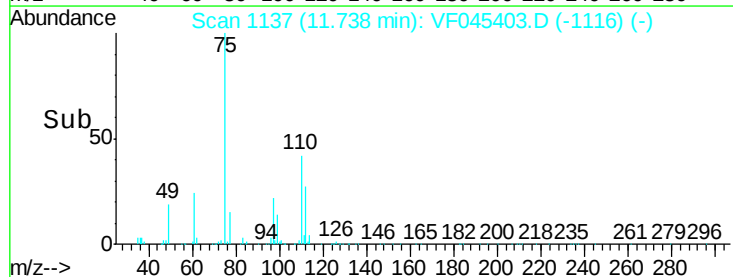
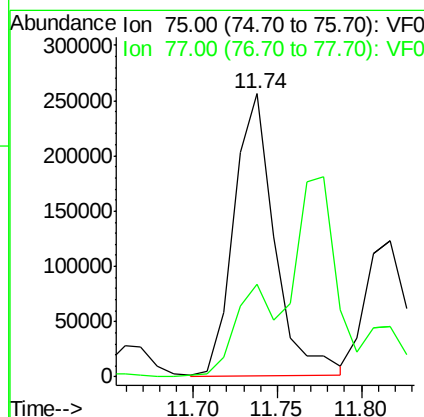
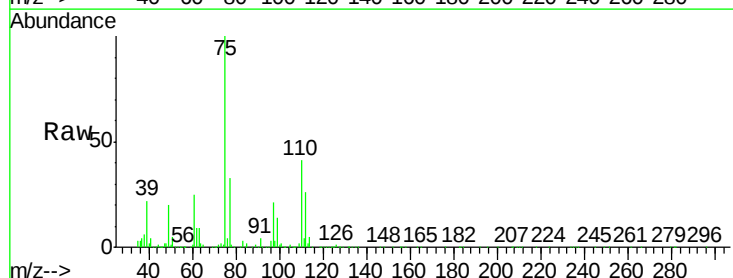
RT: 11.74 min Scan# 1137

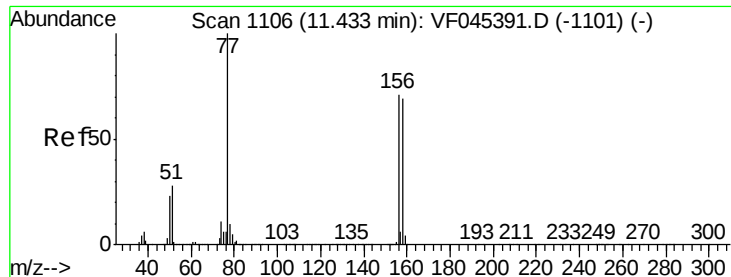
Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion:	75	Resp:	427502
Ion Ratio	Lower	Upper	
75	100		
77	32.6	15.0	45.1





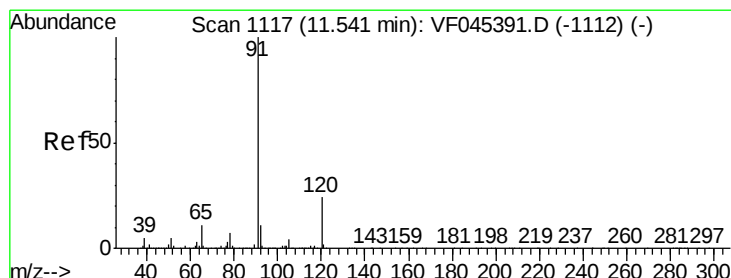
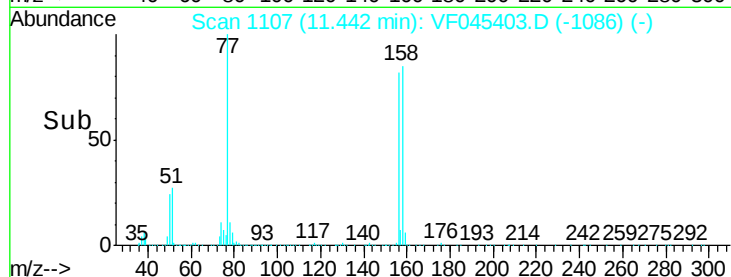
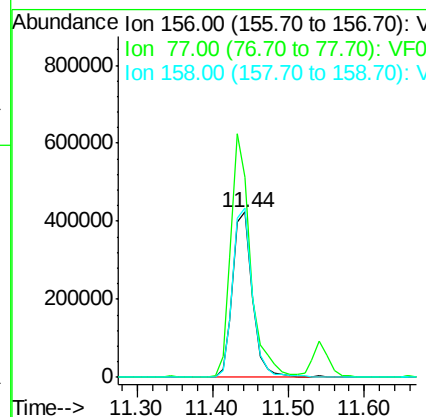
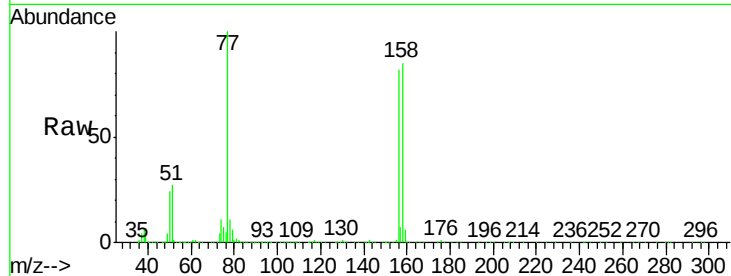
#76
Bromobenzene
Concen: 49.96 ug/l
RT: 11.44 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	121.3	74.8	224.3
158	102.7	49.5	148.7

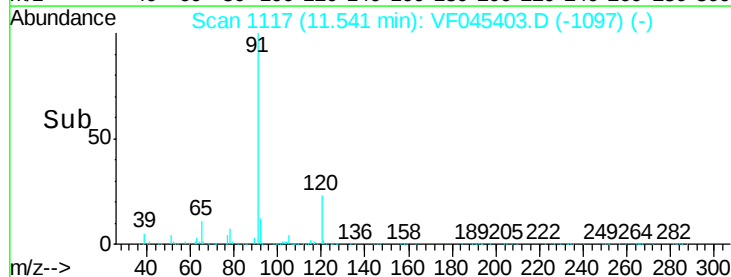
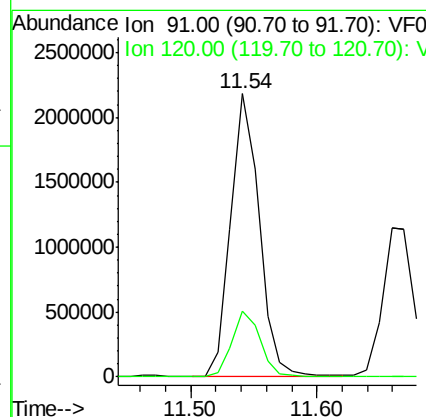
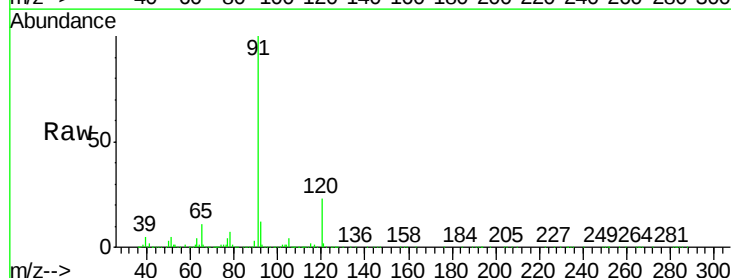
Manual Integrations
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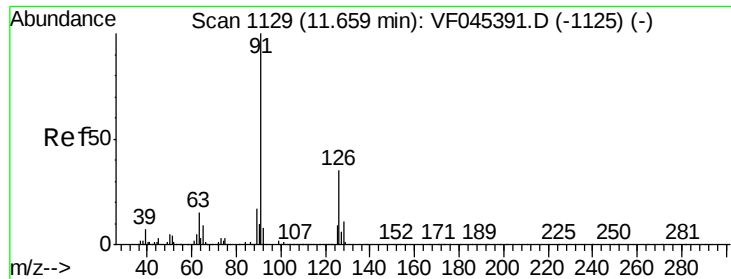
MMDadoda
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#77
n-propylbenzene
Concen: 51.02 ug/l
RT: 11.54 min Scan# 1117
Delta R.T. -0.00 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.6	34.7





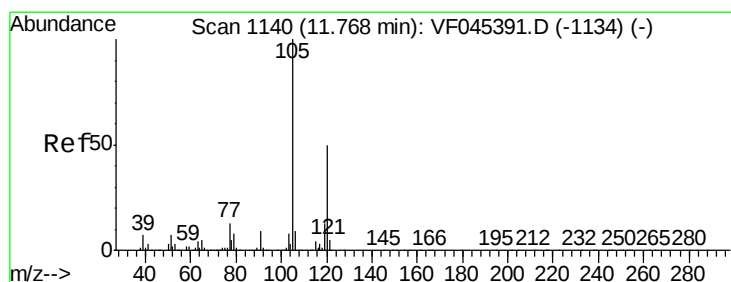
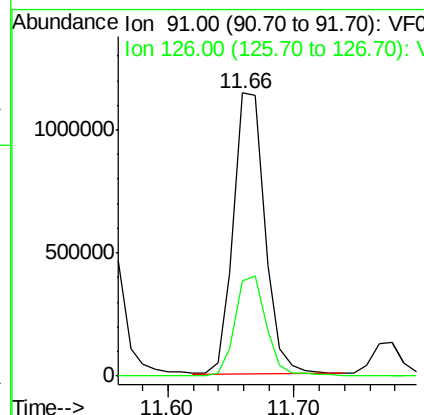
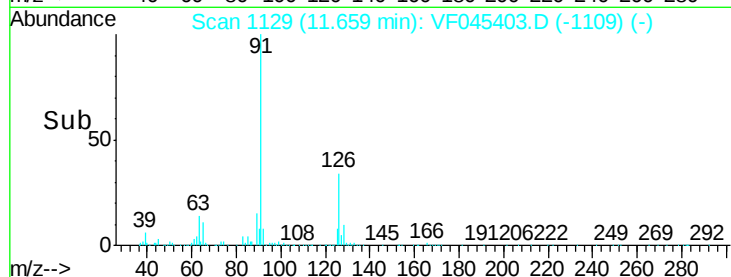
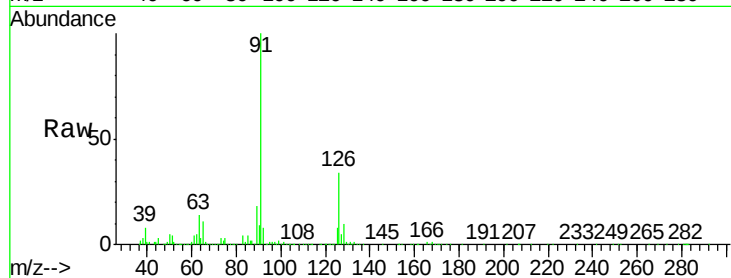
#78
2-Chlorotoluene
Concen: 52.27 ug/l
RT: 11.66 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1967886
Ion Ratio Lower Upper
91 100
126 33.5 16.9 50.7

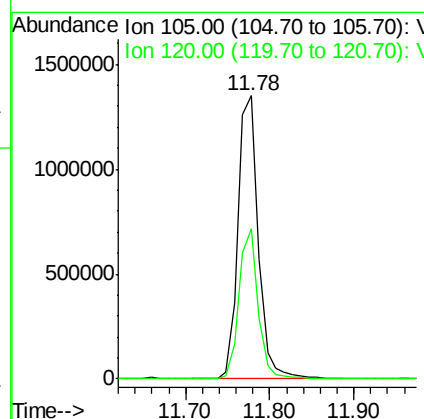
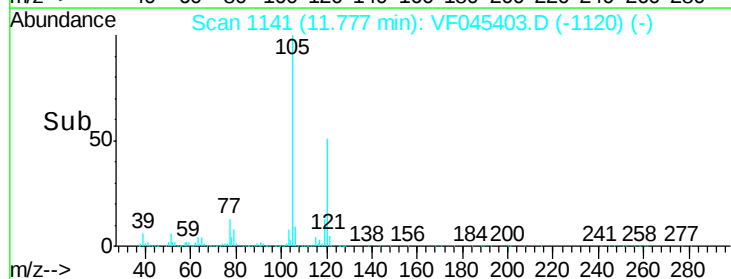
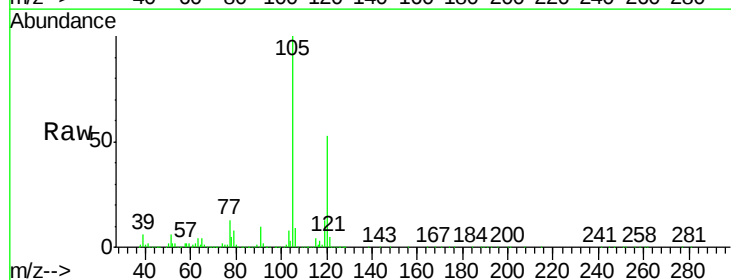
Manual Integrations
APPROVED

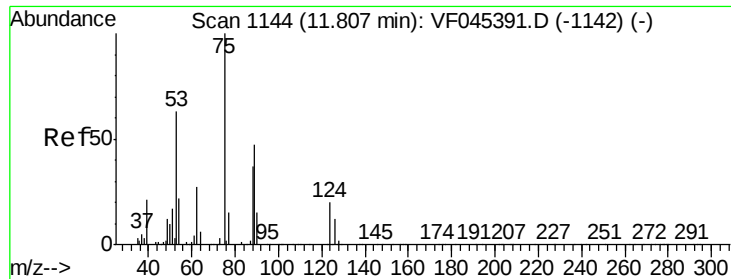
MMDadoda
9/17/2015 12:51:41 PM



#79
1,3,5-Trimethylbenzene
Concen: 51.25 ug/l
RT: 11.78 min Scan# 1141
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion: 105 Resp: 2264393
Ion Ratio Lower Upper
105 100
120 53.2 25.2 75.6





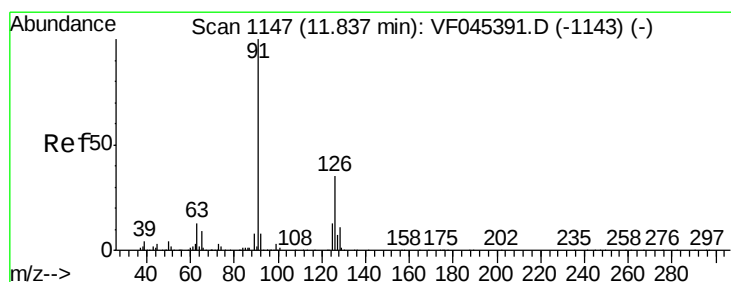
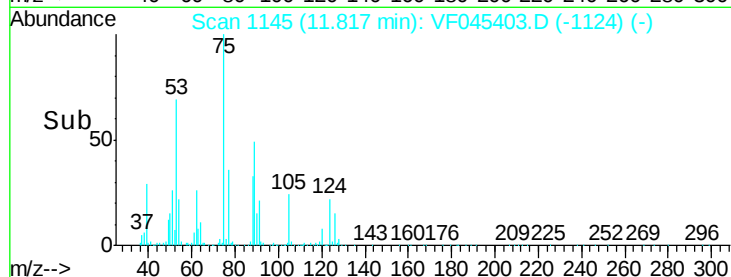
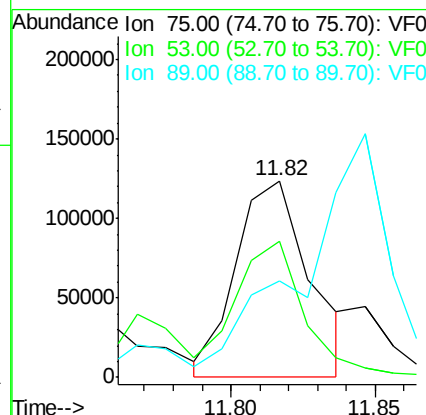
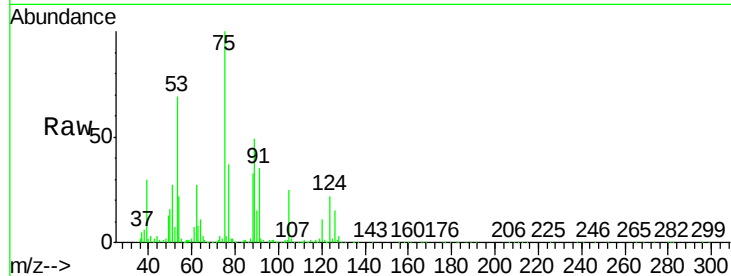
#80
trans-1,4-Dichloro-2-butene
Concen: 48.86 ug/l m
RT: 11.82 min Scan# 1145
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	69.4	51.0	76.6
89	49.0	38.6	57.8

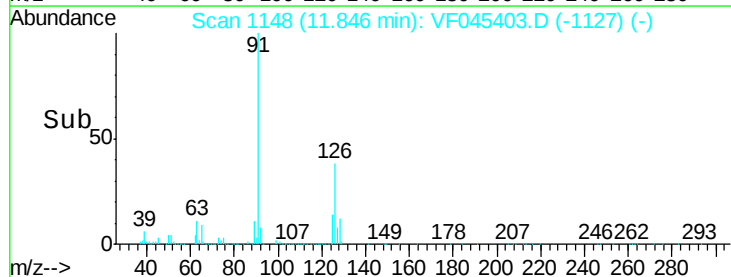
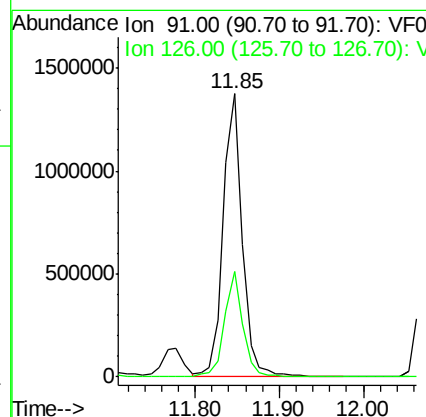
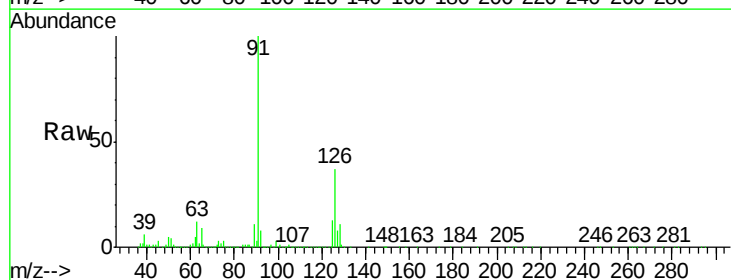
Manual Integrations
APPROVED

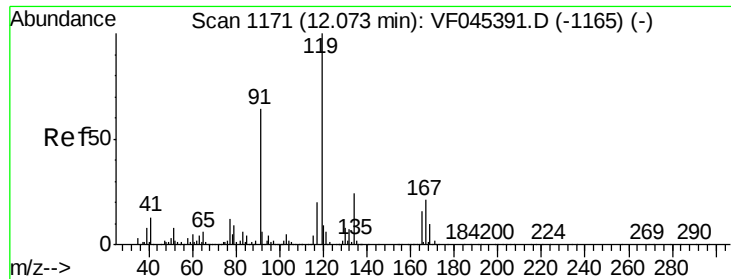
MMDadoda
9/17/2015 12:51:41 PM



#81
4-Chlorotoluene
Concen: 52.07 ug/l
RT: 11.85 min Scan# 1148
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.5	15.8	47.4





#82

tert-Butylbenzene

Concen: 50.62 ug/l

RT: 12.08 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:119 Resp: 2212228

Ion Ratio Lower Upper

119 100

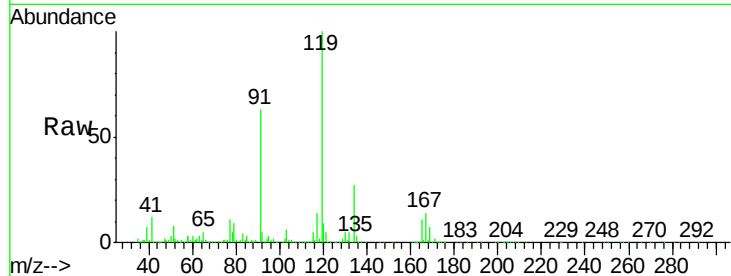
91 62.5 31.1 93.2

134 26.8 12.2 36.6

Manual Integrations
APPROVED

MMDadoda

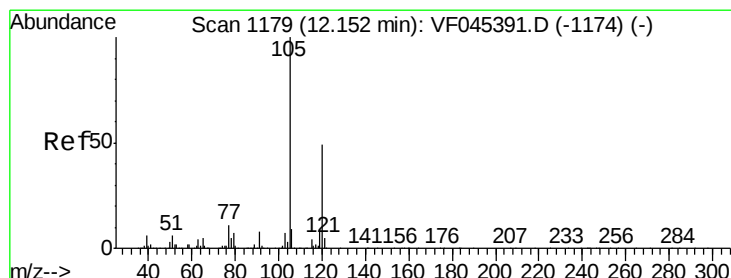
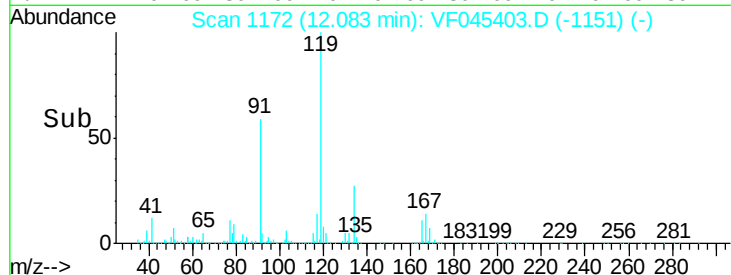
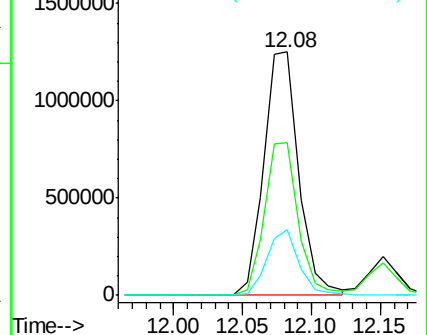
9/17/2015 12:51:41 PM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#83

1,2,4-Trimethylbenzene

Concen: 51.66 ug/l

RT: 12.15 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VF045403.D

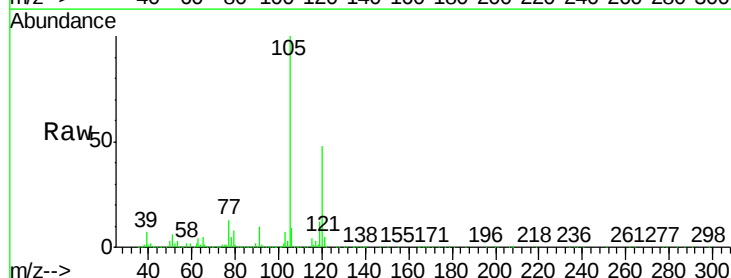
Acq: 16 Sep 2015 22:00

Tgt Ion:105 Resp: 2340654

Ion Ratio Lower Upper

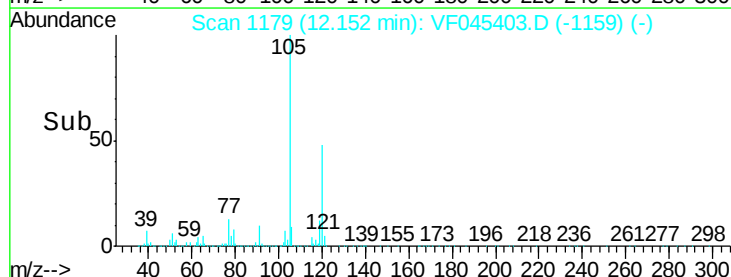
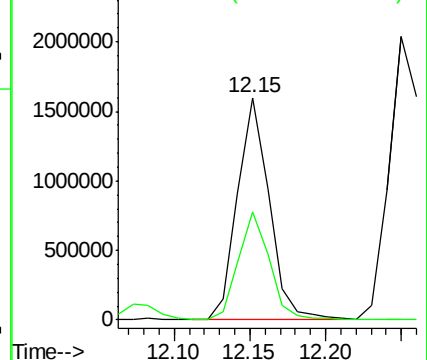
105 100

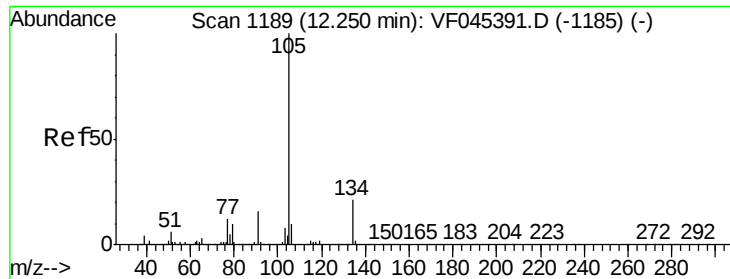
120 48.4 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





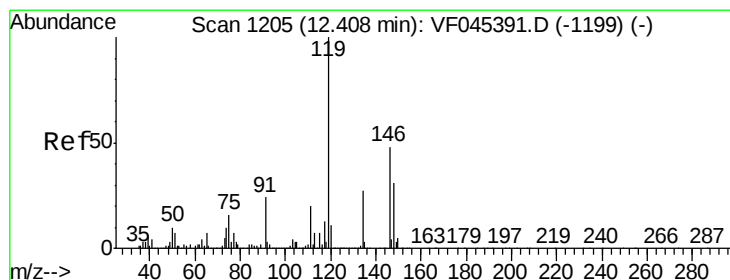
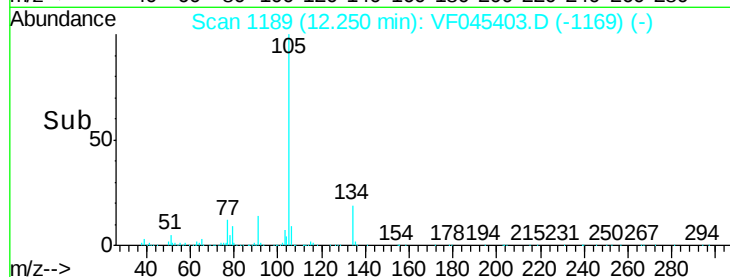
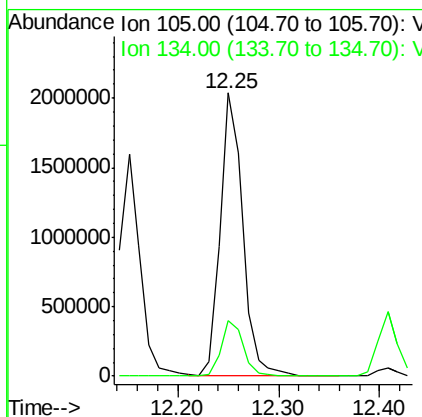
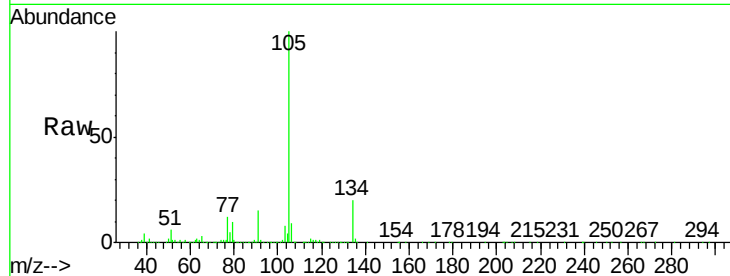
#84
 sec-Butylbenzene
 Concen: 52.37 ug/l
 RT: 12.25 min Scan# 1189
 Delta R.T. -0.00 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:105 Resp: 3181646
 Ion Ratio Lower Upper
 105 100
 134 19.7 10.5 31.6

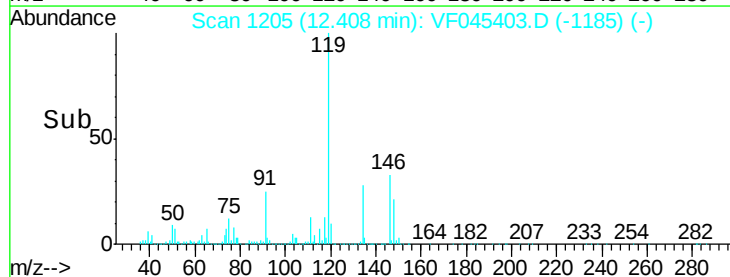
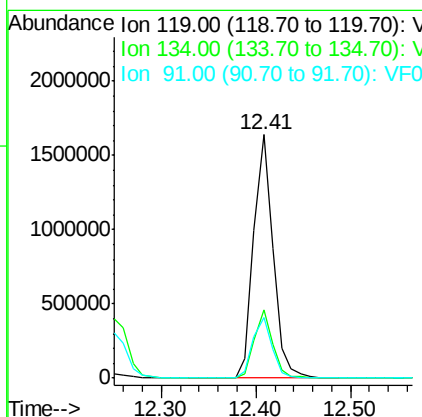
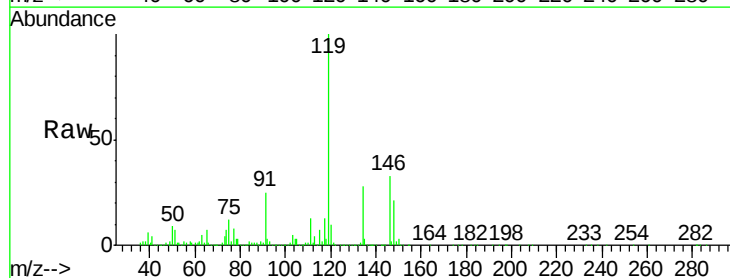
Manual Integrations
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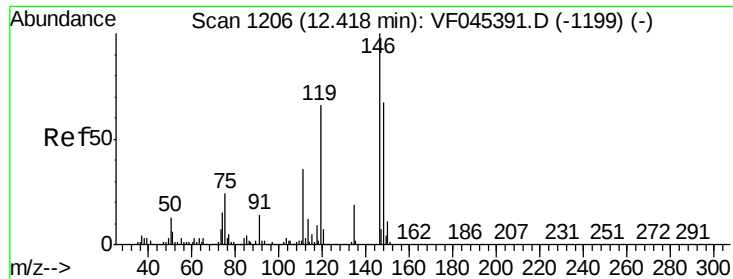
MMDadoda
 9/17/2015 12:51:41 PM



#85
 p-Isopropyltoluene
 Concen: 49.44 ug/l
 RT: 12.41 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion:119 Resp: 2338487
 Ion Ratio Lower Upper
 119 100
 134 28.1 13.0 38.9
 91 24.6 12.2 36.6





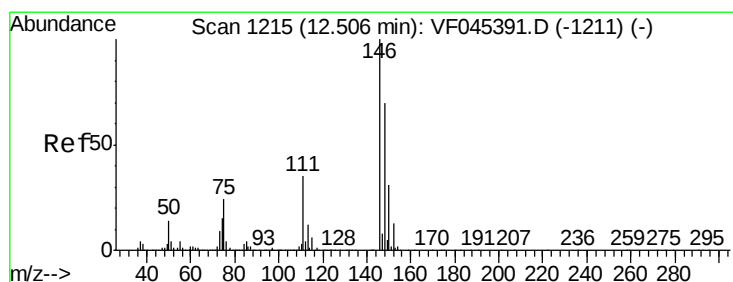
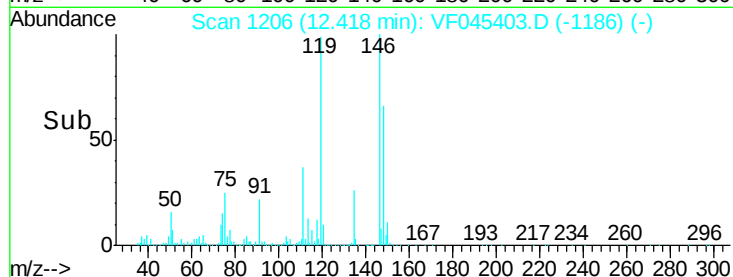
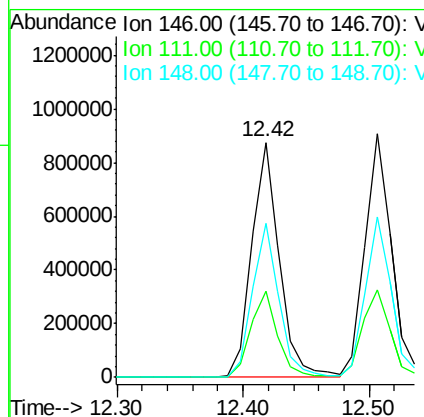
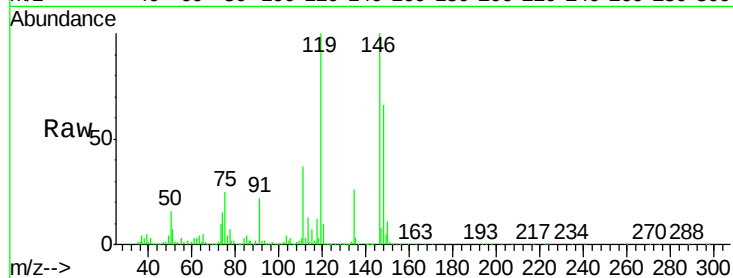
#86
 1,3-Dichlorobenzene
 Concen: 51.08 ug/l
 RT: 12.42 min Scan# 1206
 Delta R.T. -0.00 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.7	19.9	59.7
148	65.8	32.5	97.4

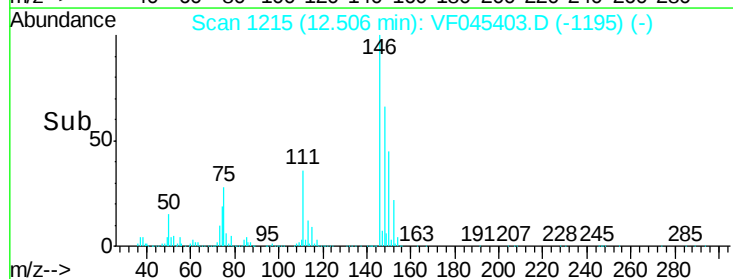
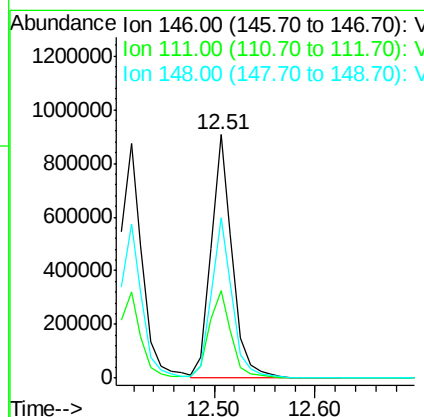
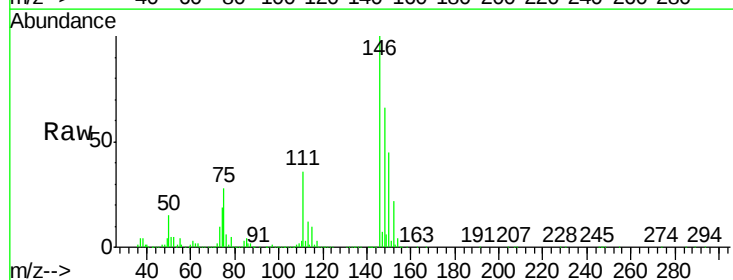
Manual Integrations
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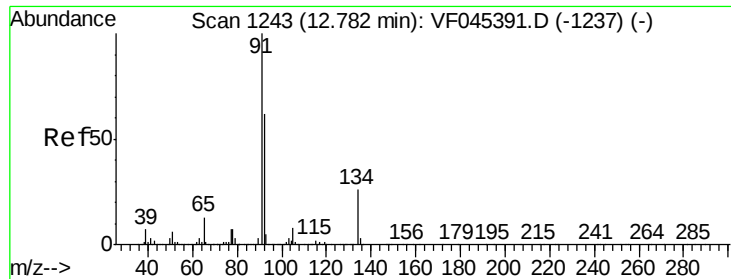
MMDadoda
 9/17/2015 12:51:41 PM



#87
 1,4-Dichlorobenzene
 Concen: 51.02 ug/l
 RT: 12.51 min Scan# 1215
 Delta R.T. -0.00 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	17.3	52.0
148	66.1	32.4	97.0





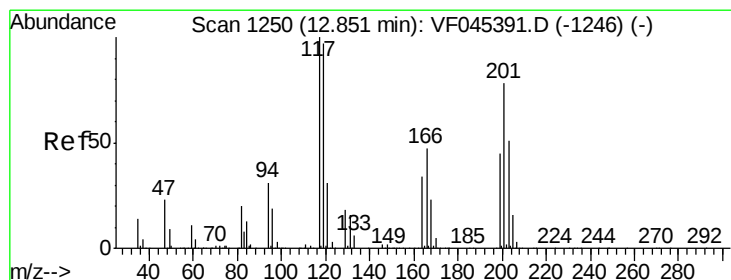
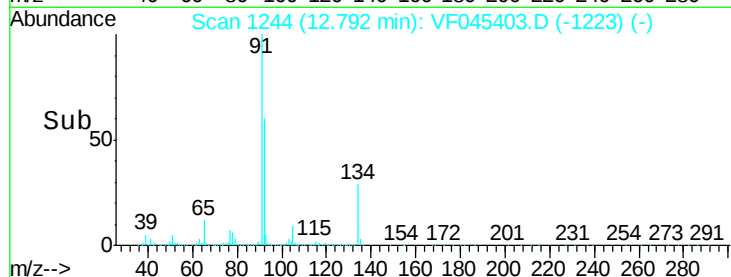
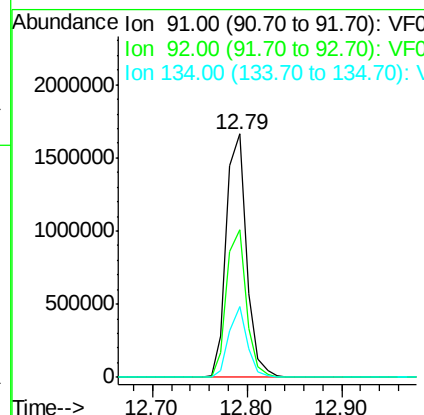
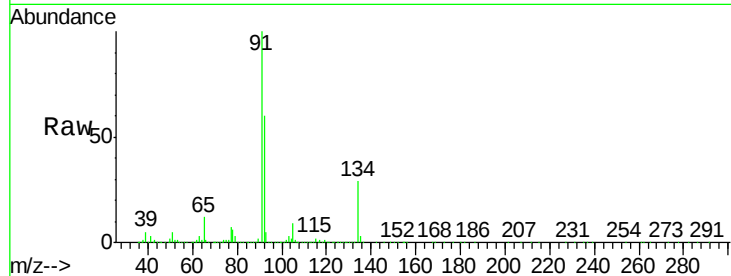
#88
n-Butylbenzene
Concen: 51.74 ug/l
RT: 12.79 min Scan# 1244
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.4	30.1	90.5
134	28.9	13.8	41.4

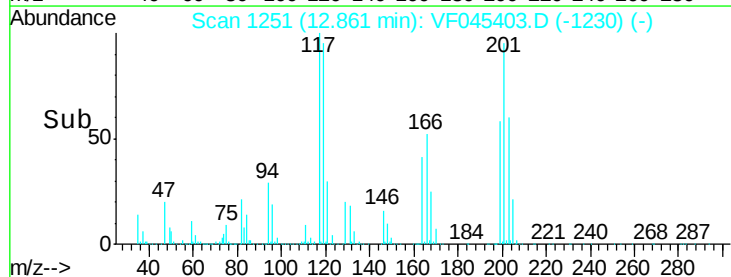
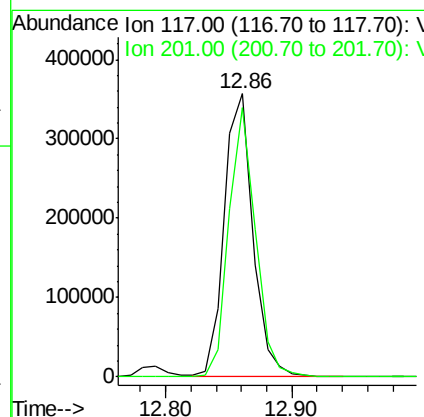
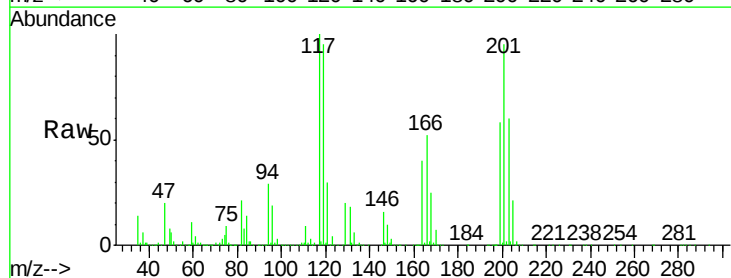
Manual Integrations
APPROVED

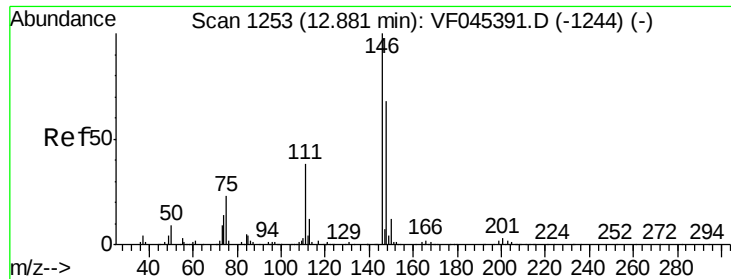
MMDadoda
9/17/2015 12:51:41 PM



#89
Hexachloroethane
Concen: 50.21 ug/l
RT: 12.86 min Scan# 1251
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
117	100		
201	94.9	42.0	126.1





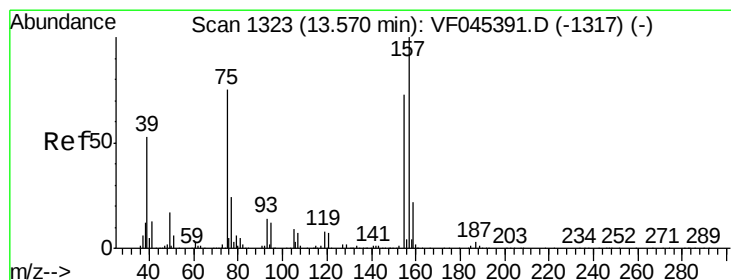
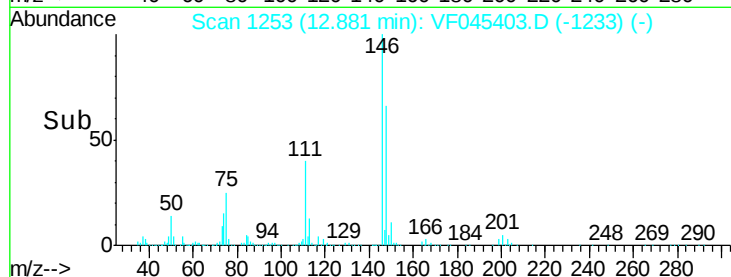
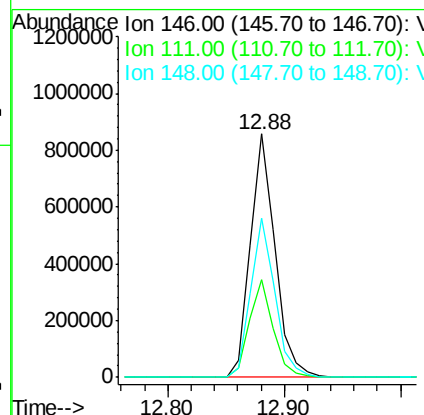
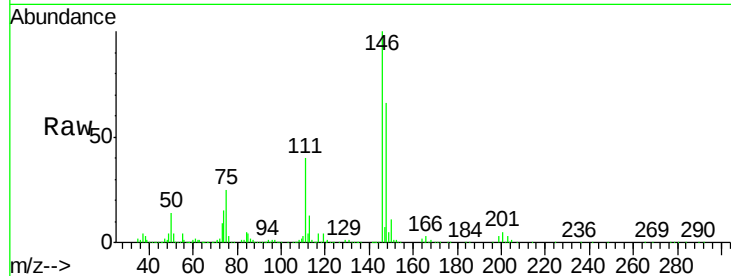
#90
 1,2-Dichlorobenzene
 Concen: 52.25 ug/l
 RT: 12.88 min Scan# 1253
 Delta R.T. -0.00 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.4	64.3
148	65.5	31.4	94.3

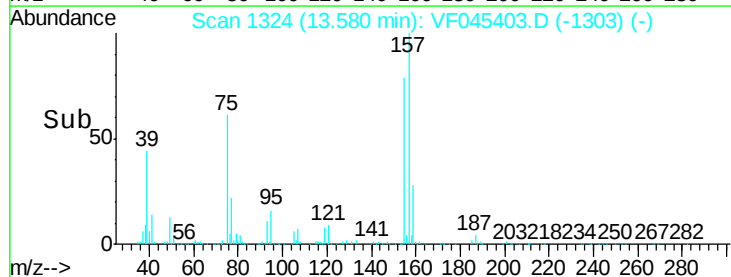
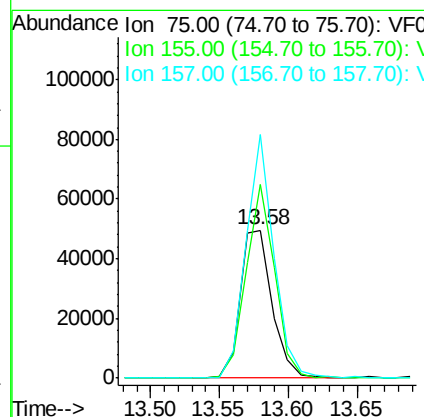
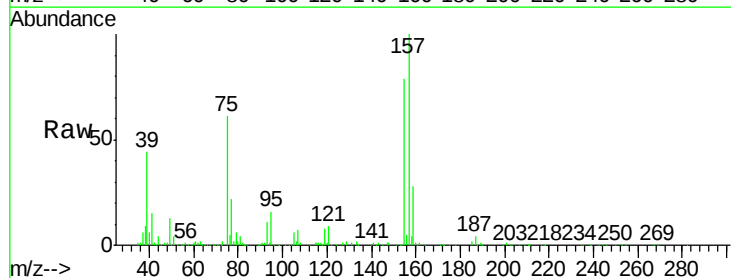
Manual Integrations
 APPROVED

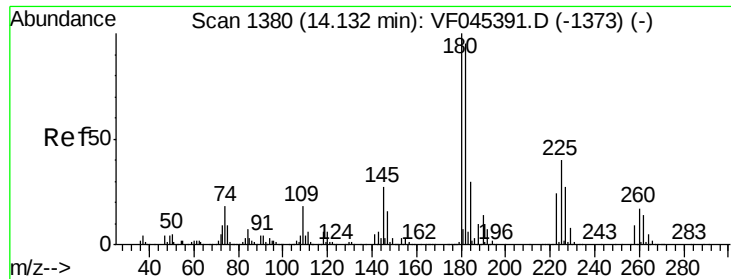
MMDadoda
 9/17/2015 12:51:41 PM



#91
 1,2-Dibromo-3-Chloropropane
 Concen: 49.12 ug/l
 RT: 13.58 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VF045403.D
 Acq: 16 Sep 2015 22:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	130.5	49.2	147.6
157	164.4	66.8	200.4





#92

1,2,4-Trichlorobenzene

Concen: 55.65 ug/l

RT: 14.13 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Instrument :

MSVOA_F

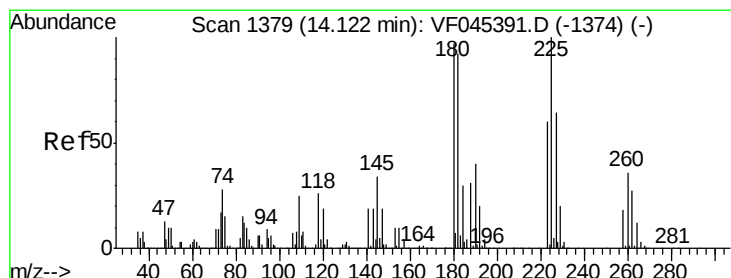
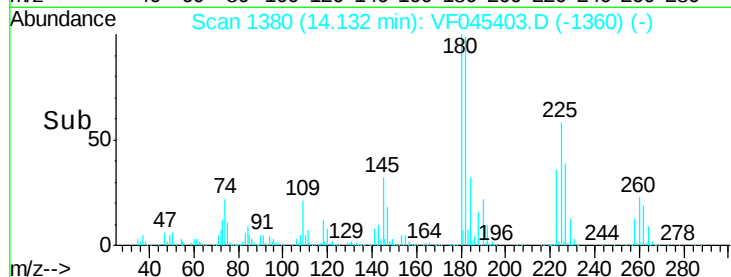
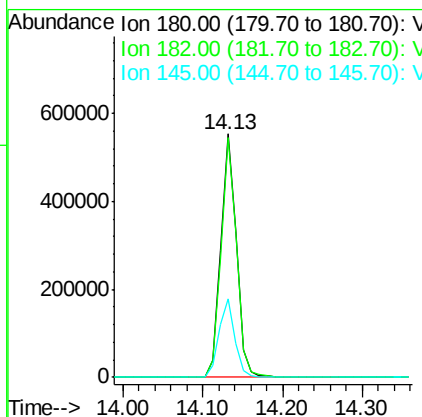
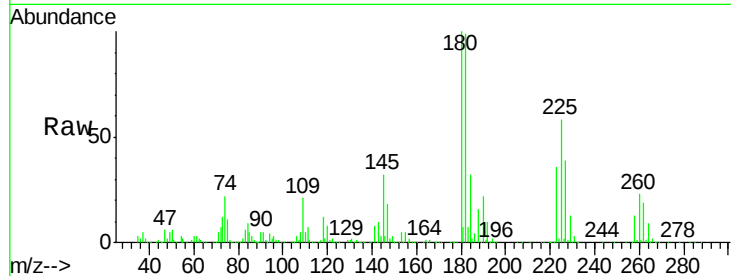
ClientSampleId :

VSTDCCC050EC

Tot Ion:	180	Resp:	774292
Ion Ratio	Lower	Upper	
180	100		
182	98.7	49.4	148.0
145	32.0	16.7	50.1

Manual Integrations
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#93

Hexachlorobutadiene

Concen: 54.65 ug/l

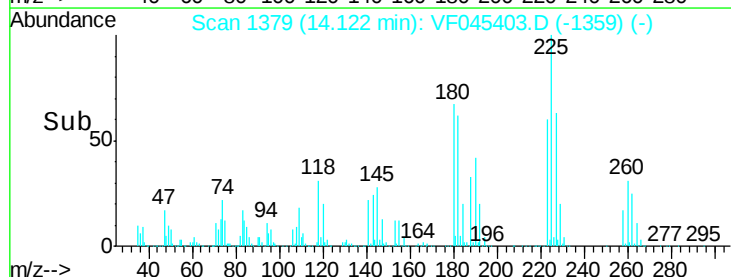
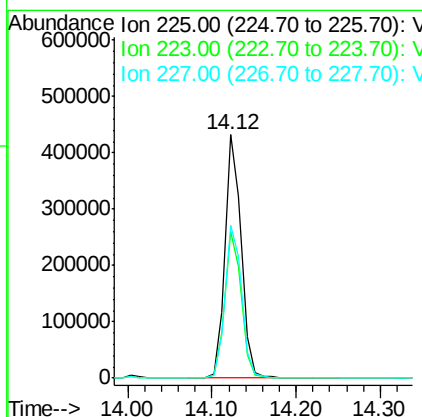
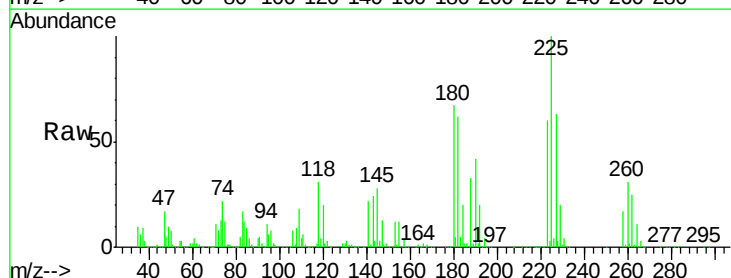
RT: 14.12 min Scan# 1379

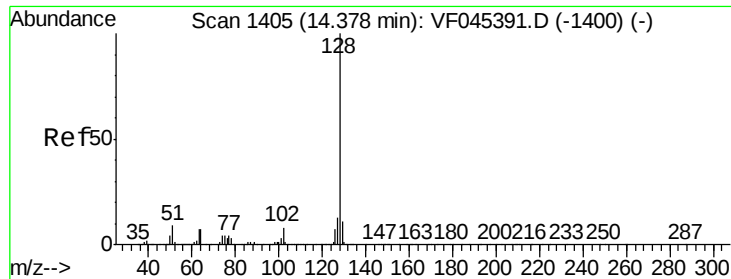
Delta R.T. -0.00 min

Lab File: VF045403.D

Acq: 16 Sep 2015 22:00

Tgt Ion:	225	Resp:	577574
Ion Ratio	Lower	Upper	
225	100		
223	60.0	31.9	95.5
227	62.9	32.9	98.7





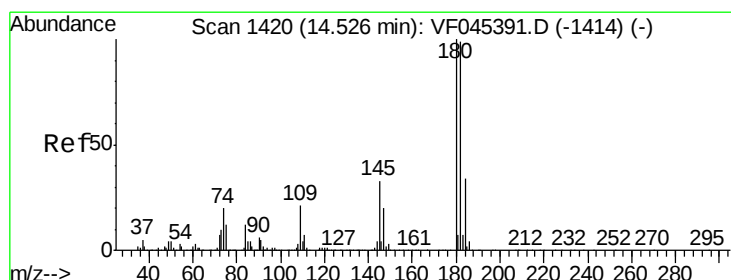
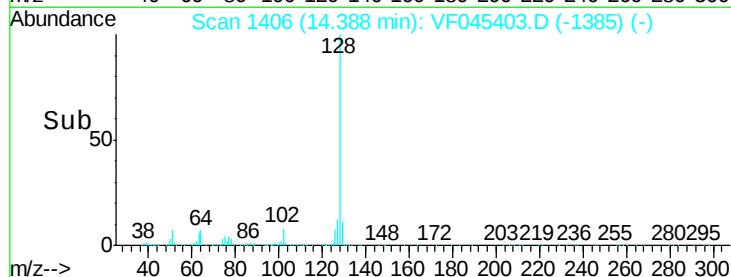
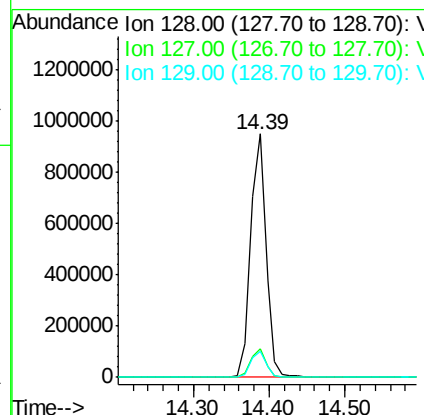
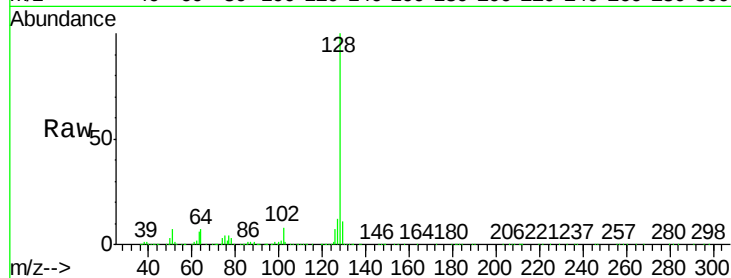
#94
Naphthalene
Concen: 51.06 ug/l
RT: 14.39 min Scan# 1406
Delta R.T. 0.01 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion:128 Resp: 1342613
Ion Ratio Lower Upper
128 100
127 11.7 9.8 14.8
129 10.9 8.8 13.2

Manual Integrations
APPROVED

MMDadoda
9/17/2015 12:51:41 PM



#95
1,2,3-Trichlorobenzene
Concen: 57.10 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.00 min
Lab File: VF045403.D
Acq: 16 Sep 2015 22:00

Tgt Ion:180 Resp: 652736
Ion Ratio Lower Upper
180 100
182 94.1 47.6 142.8
145 32.4 14.5 43.6

