

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\
 Data File : VF060972.D
 Acq On : 11 Dec 2018 12:54
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 1:28:32 PM

Quant Time: Dec 12 06:35:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	189253	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	311096	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	287136	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	139737	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	112394	50.41	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	100.82%	
35) Dibromofluoromethane	4.11	113	125832	50.99	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	101.98%	
50) Toluene-d8	7.55	98	344797	47.43	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	94.86%	
62) 4-Bromofluorobenzene	11.41	95	157381	47.63	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	95.26%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	116860	41.297	ug/l	97
3) Chloromethane	1.09	50	78829	42.810	ug/l	98
4) Vinyl Chloride	1.14	62	79124	46.067	ug/l	95
5) Bromomethane	1.33	94	55938	46.187	ug/l	98
6) Chloroethane	1.39	64	38099	51.315	ug/l	96
7) Trichlorofluoromethane	1.48	101	171564	46.555	ug/l	91
8) Diethyl Ether	1.63	74	24694	46.599	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.83	101	90708	48.688	ug/l	94
10) Methyl Iodide	1.91	142	139308m	49.194	ug/l	
11) Tert butyl alcohol	2.57	59	21342	233.524	ug/l #	85
12) 1,1-Dichloroethene	1.79	96	69777	46.564	ug/l	98
13) Acrolein	2.01	56	18012	208.015	ug/l	85
14) Allyl chloride	2.10	41	81888	43.843	ug/l	99
15) Acrylonitrile	2.95	53	48728	237.823	ug/l	94
16) Acetone	2.24	43	118930	289.279	ug/l	95
17) Carbon Disulfide	1.82	76	171368m	42.651	ug/l	
18) Methyl Acetate	2.34	43	35712	51.837	ug/l	95
19) Methyl tert-butyl Ether	2.43	73	156298	46.309	ug/l	96
20) Methylene Chloride	2.25	84	68798m	45.615	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	58296	40.352	ug/l	96
22) Diisopropyl ether	2.80	45	255200	50.196	ug/l	99
23) Vinyl Acetate	3.18	43	605632	260.602	ug/l	99
24) 1,1-Dichloroethane	2.87	63	153861	50.866	ug/l	99
25) 2-Butanone	4.34	43	183405	257.916	ug/l	100
26) 2,2-Dichloropropane	3.60	77	94595	48.238	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	117102	49.789	ug/l	99
28) Bromochloromethane	3.71	49	72268	49.782	ug/l	93
29) Tetrahydrofuran	4.08	42	70209	232.922	ug/l	96
30) Chloroform	3.86	83	226903	48.740	ug/l	98
31) Cyclohexane	3.69	56	139088m	44.307	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	138195	42.803	ug/l	98
36) 1,1-Dichloropropene	4.28	75	162752	47.167	ug/l	97
37) Ethyl Acetate	4.11	43	64224	45.802	ug/l #	97
38) Carbon Tetrachloride	3.98	117	127231	41.746	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	147591	40.815	ug/l	97
40) Benzene	4.63	78	354923	46.559	ug/l	100
41) Methacrylonitrile	4.74	41	34690	47.596	ug/l	95
42) 1,2-Dichloroethane	4.94	62	130268	46.808	ug/l	99
43) Isopropyl Acetate	6.96	43	76392	43.819	ug/l #	95
44) Trichloroethene	5.50	130	112932	45.309	ug/l	99
45) 1,2-Dichloropropane	6.23	63	100824	50.926	ug/l	96
46) Dibromomethane	6.08	93	62502	46.538	ug/l	94
47) Bromodichloromethane	6.39	83	168320	47.187	ug/l	99
48) Methyl methacrylate	6.71	41	53751	42.348	ug/l	96
49) 1,4-Dioxane	6.70	88	8757	942.699	ug/l #	88
51) 4-Methyl-2-Pentanone	8.26	43	293615	227.068	ug/l	98
52) Toluene	7.62	92	229147	42.795	ug/l	94
53) t-1,3-Dichloropropene	8.28	75	134093	46.215	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	175369	48.822	ug/l	97
55) 1,1,2-Trichloroethane	8.49	97	74427	47.702	ug/l	96
56) Ethyl methacrylate	8.62	69	80193	46.268	ug/l	96
57) 1,3-Dichloropropane	8.85	76	129244	47.347	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.30	63	67497	380.728	ug/l	94
59) 2-Hexanone	9.50	43	218310	240.650	ug/l	97
60) Dibromochloromethane	8.72	129	100299	43.145	ug/l	93
61) 1,2-Dibromoethane	8.98	107	77460	45.957	ug/l	95
64) Tetrachloroethene	8.15	164	99264	45.261	ug/l	96
65) Chlorobenzene	9.80	112	264570	47.364	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.93	131	108585	45.218	ug/l	96
67) Ethyl Benzene	9.90	91	483758	46.519	ug/l	98
68) m/p-Xylenes	10.13	106	337153	90.143	ug/l	100
69) o-Xylene	10.72	106	195946	47.509	ug/l	96
70) Styrene	10.79	104	263452	46.080	ug/l	98
71) Bromoform	10.78	173	51574	44.463	ug/l	96
73) Isopropylbenzene	11.12	105	580894	52.604	ug/l	100
74) N-amyl acetate	11.37	43	122314	47.967	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.69	83	93309	51.342	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	65455	49.549	ug/l	94
77) Bromobenzene	11.50	156	116115	47.962	ug/l	87
78) n-propylbenzene	11.60	91	663861	51.335	ug/l	97
79) 2-Chlorotoluene	11.71	91	381537	51.455	ug/l	97
80) 1,3,5-Trimethylbenzene	11.82	105	446774	49.837	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.87	75	34810m	53.782	ug/l	
82) 4-Chlorotoluene	11.90	91	390124	49.994	ug/l	92
83) tert-Butylbenzene	12.13	119	468410	51.295	ug/l	100
84) 1,2,4-Trimethylbenzene	12.21	105	450518	50.354	ug/l	99
85) sec-Butylbenzene	12.31	105	624239	49.936	ug/l	100
86) p-Isopropyltoluene	12.46	119	518529	49.475	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	222282	48.269	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	211075	47.033	ug/l	97
89) n-Butylbenzene	12.85	91	534231	50.411	ug/l	100
90) Hexachloroethane	12.92	117	125562	49.752	ug/l	91
91) 1,2-Dichlorobenzene	12.95	146	209853	48.120	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	17061	48.555	ug/l	98

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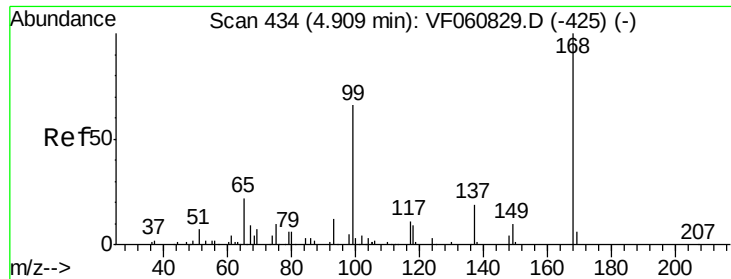
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	151872	49.841	ug/l	98
94) Hexachlorobutadiene	14.19	225	104711	51.549	ug/l	96
95) Naphthalene	14.46	128	267955	44.953	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	138560	48.973	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 189253

Ion Ratio Lower Upper

168 100

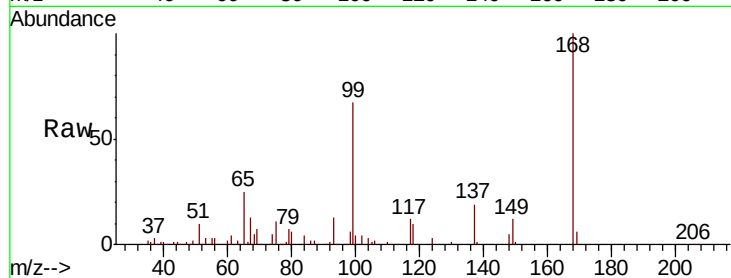
99 67.4 52.6 79.0

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

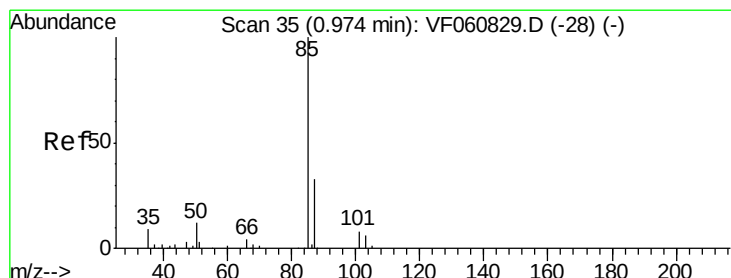
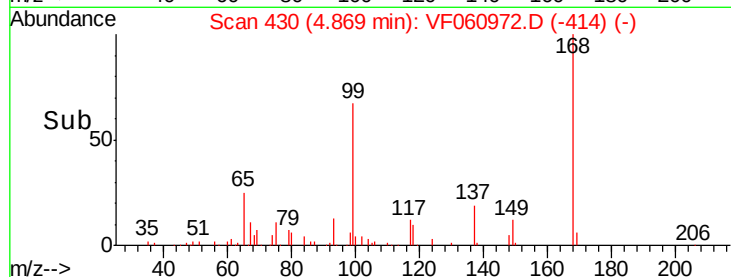
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 41.297 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060972.D

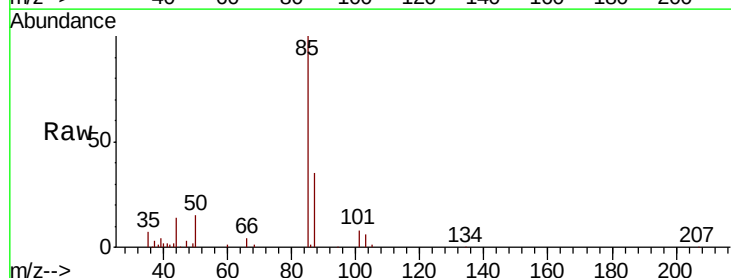
Acq: 11 Dec 2018 12:54

Tgt Ion: 85 Resp: 116860

Ion Ratio Lower Upper

85 100

87 35.2 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

30000

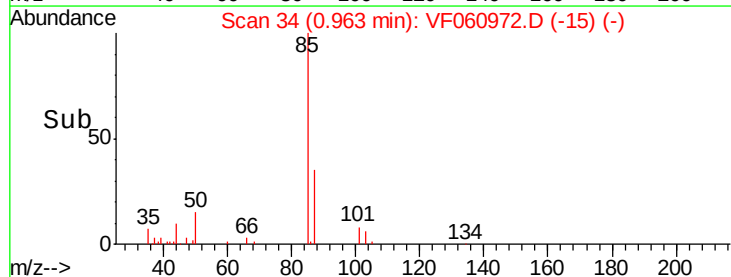
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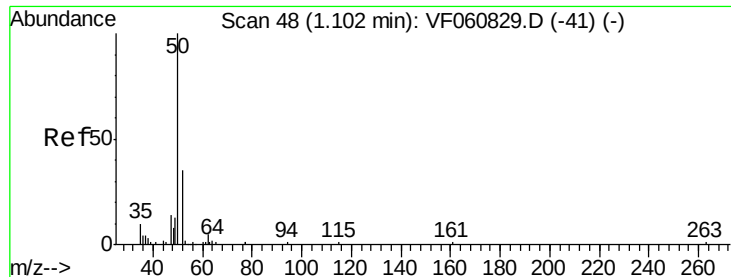
10000

0

Time-->

0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 42.810 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 78829

Ion Ratio Lower Upper

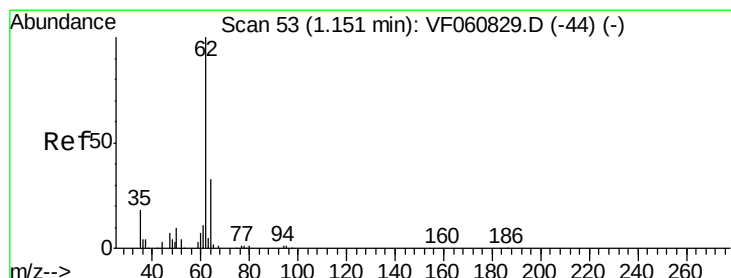
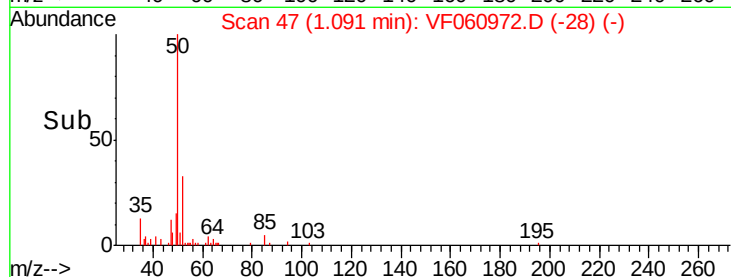
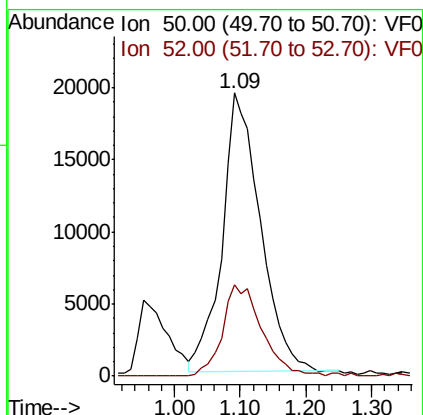
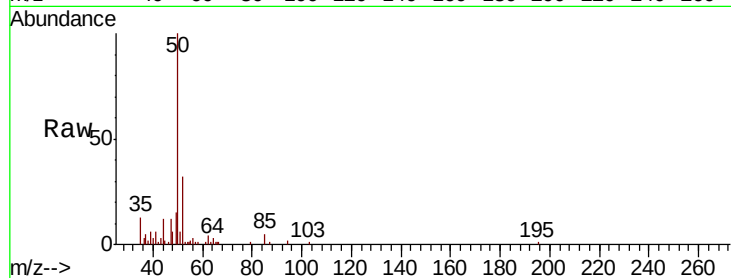
50 100

52 32.4 27.0 40.4

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#4

Vinyl Chloride

Concen: 46.067 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060972.D

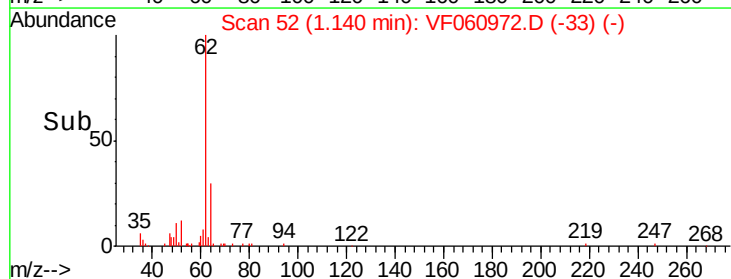
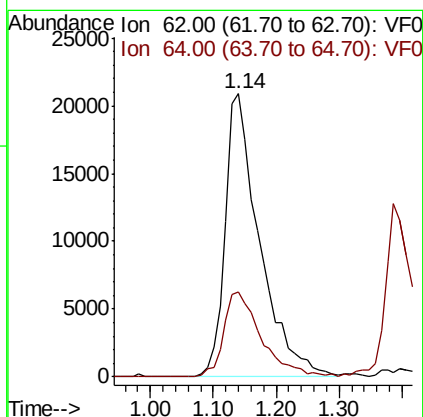
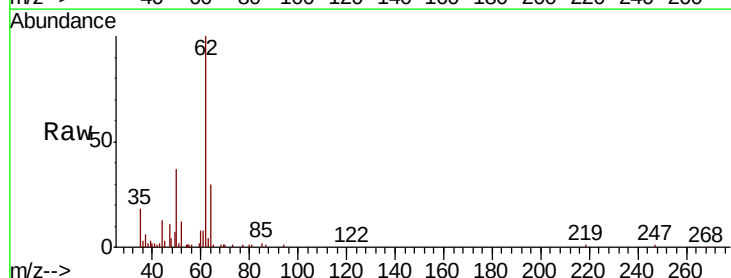
Acq: 11 Dec 2018 12:54

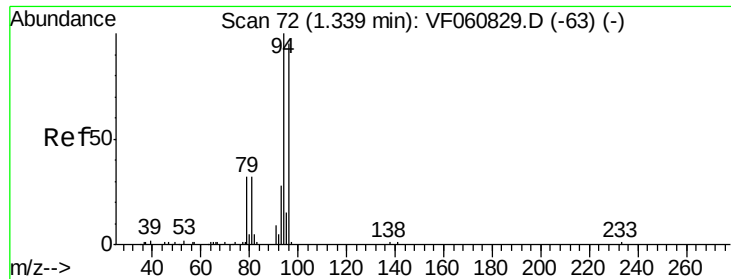
Tgt Ion: 62 Resp: 79124

Ion Ratio Lower Upper

62 100

64 30.2 26.4 39.6





#5

Bromomethane

Concen: 46.187 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 55938

Ion Ratio Lower Upper

94 100

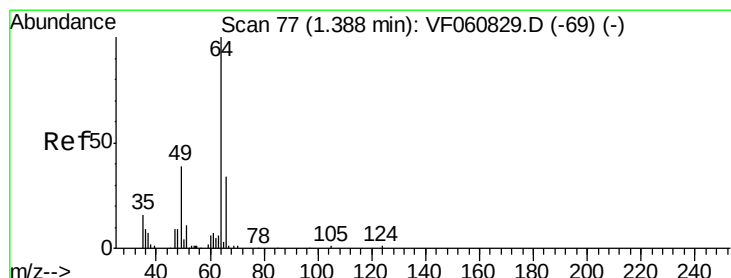
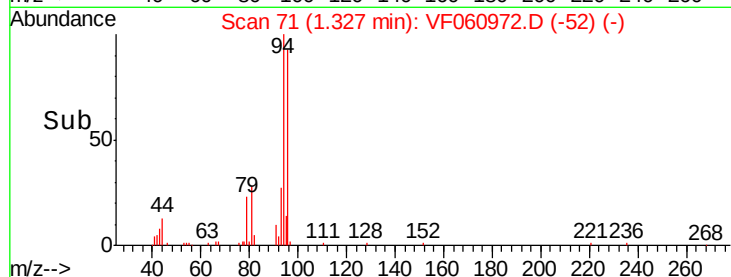
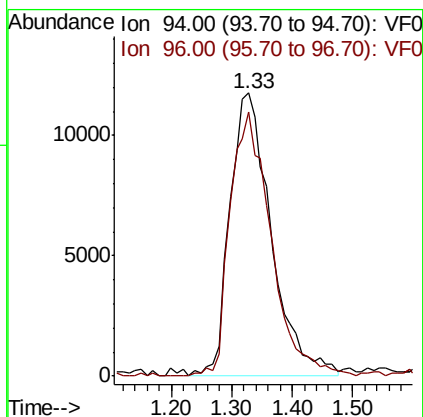
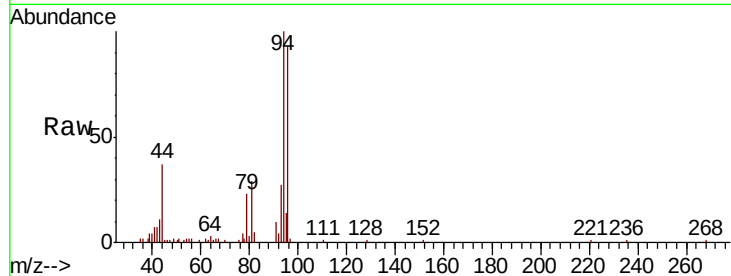
96 93.2 75.9 113.9

Manual Integrations

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#6

Chloroethane

Concen: 51.315 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF060972.D

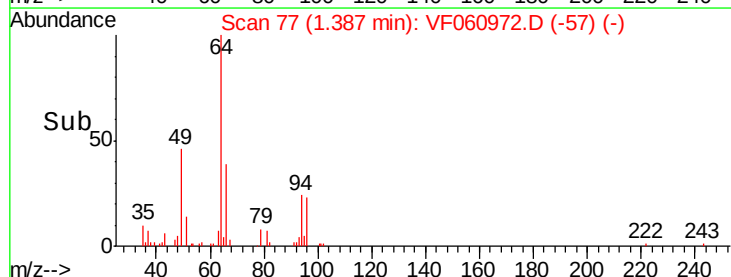
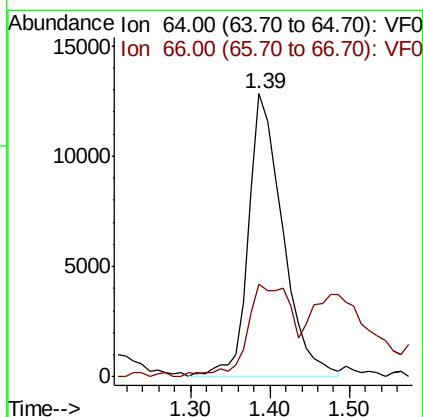
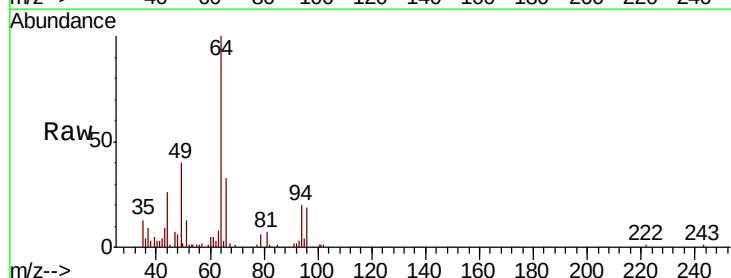
Acq: 11 Dec 2018 12:54

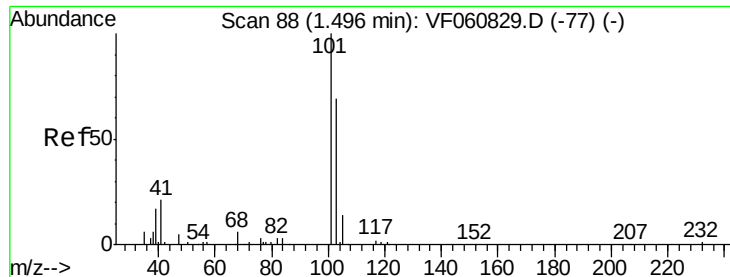
Tgt Ion: 64 Resp: 38099

Ion Ratio Lower Upper

64 100

66 32.6 28.1 42.1





#7

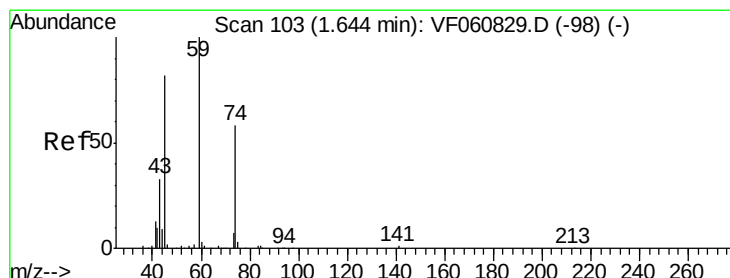
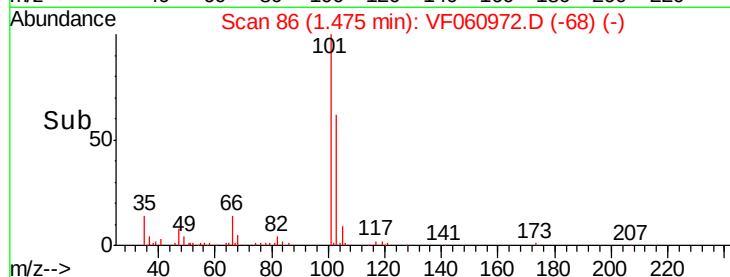
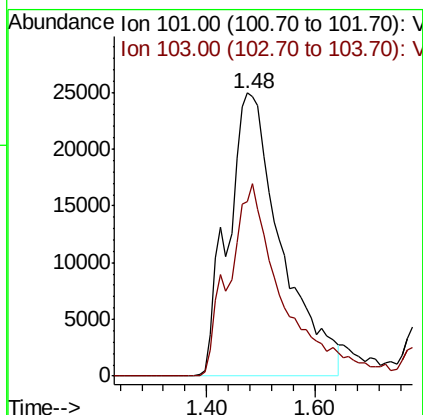
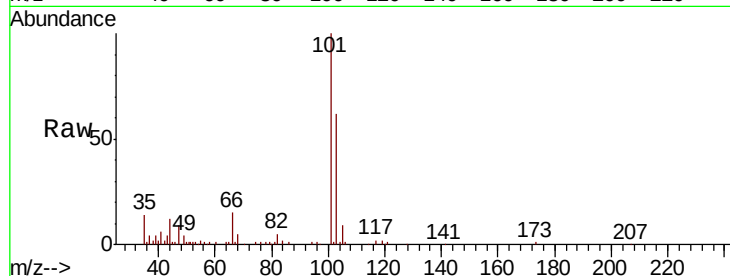
Trichlorofluoromethane
Concen: 46.555 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 171564
Ion Ratio Lower Upper
101 100
103 61.6 55.4 83.0

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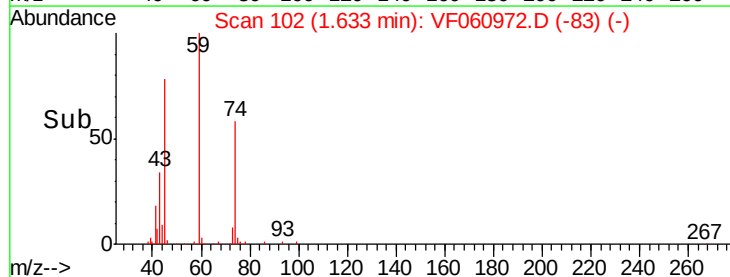
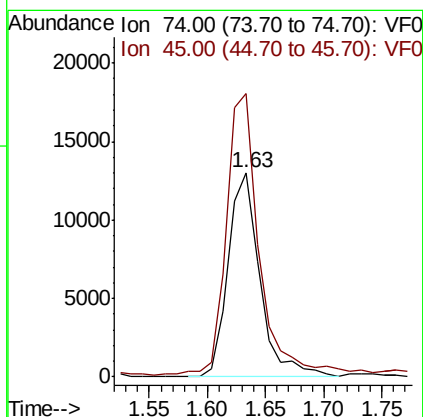
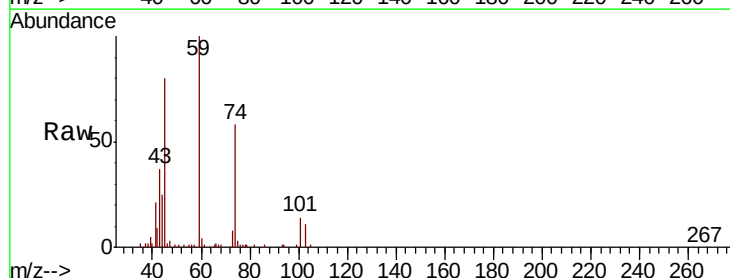
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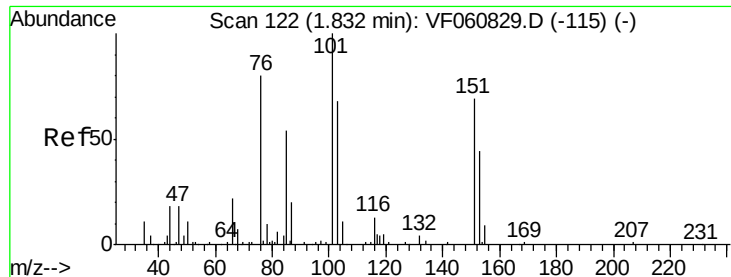


#8

Diethyl Ether
Concen: 46.599 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.01 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 74 Resp: 24694
Ion Ratio Lower Upper
74 100
45 138.8 71.0 212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.688 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

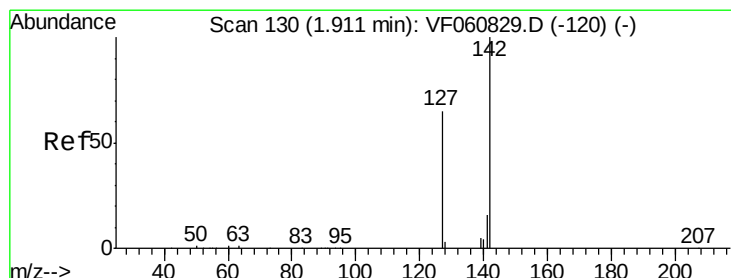
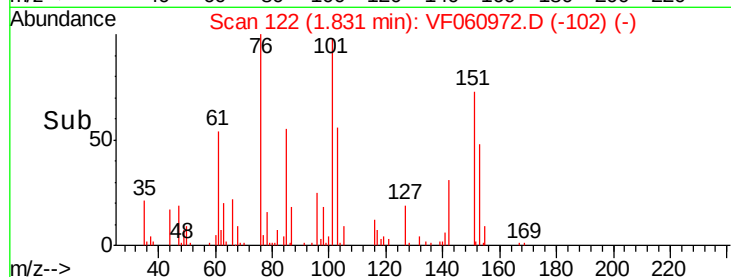
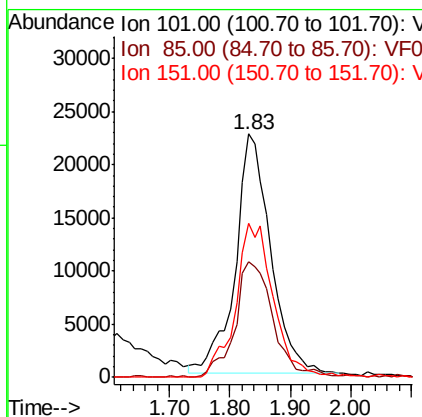
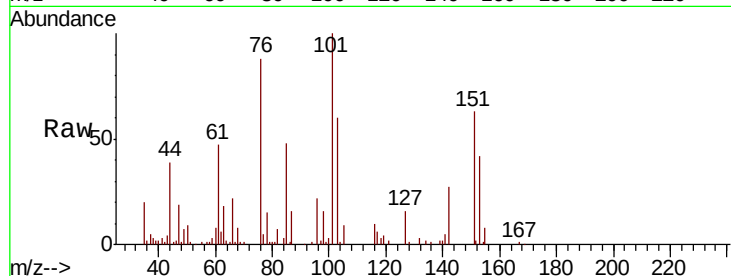
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	90708
Ion Ratio	Lower	Upper	
101	100		
85	47.7	42.8	64.2
151	65.2	54.4	81.6

Manual Integrations
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#10

Methyl Iodide

Concen: 49.194 ug/l m

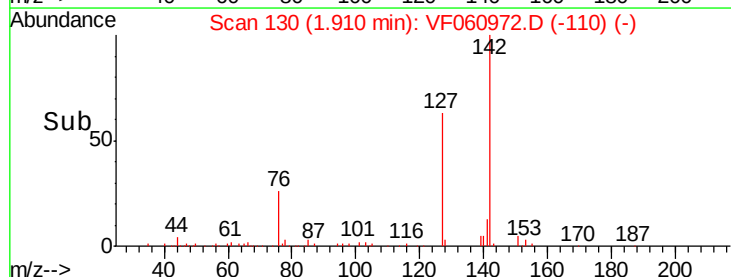
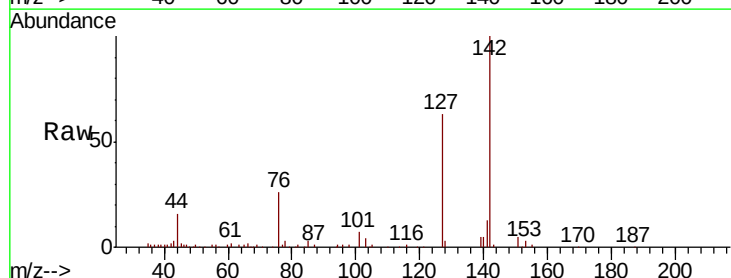
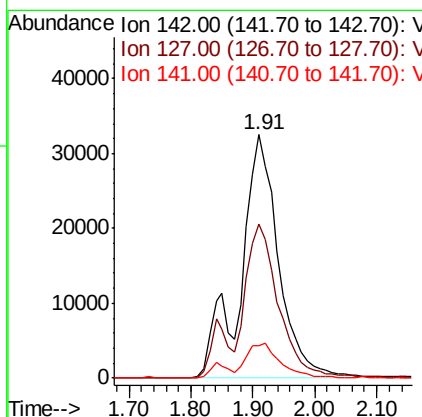
RT: 1.91 min Scan# 130

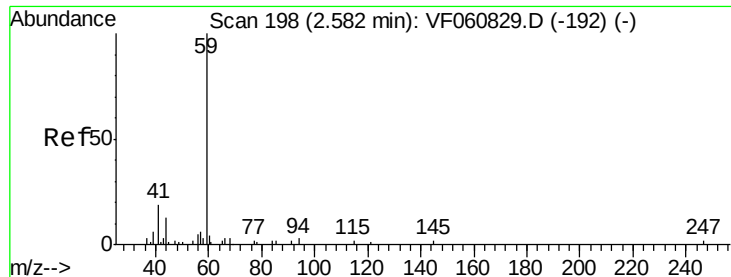
Delta R.T. -0.00 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	142	Resp:	139308
Ion Ratio	Lower	Upper	
142	100		
127	63.0	51.9	77.9
141	13.4	12.7	19.1





#11

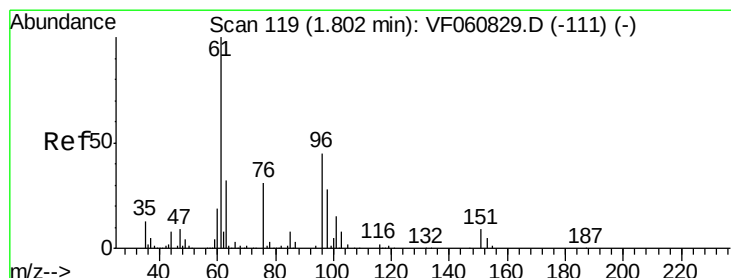
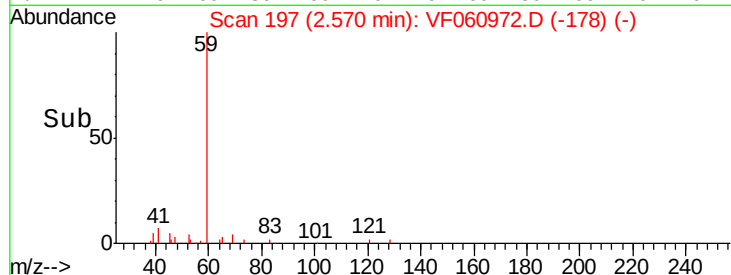
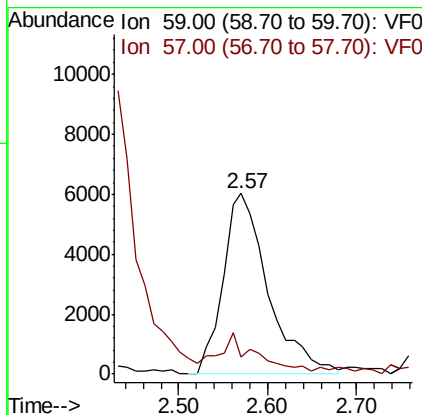
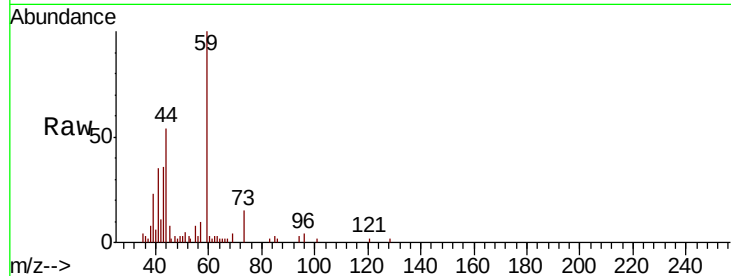
Tert butyl alcohol
 Concen: 233.524 ug/l
 RT: 2.57 min Scan# 197
 Delta R.T. -0.01 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	59	Resp	21342
Ion Ratio	100	Lower	Upper
59	100		
57	9.6	12.7	19.1#

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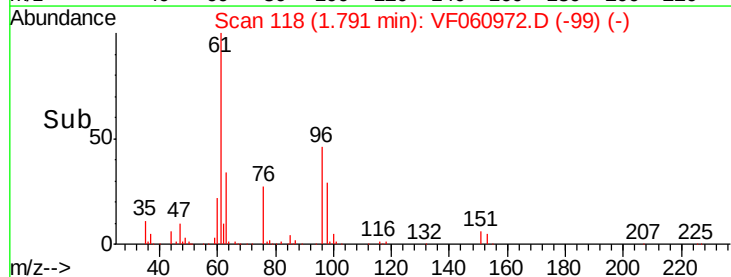
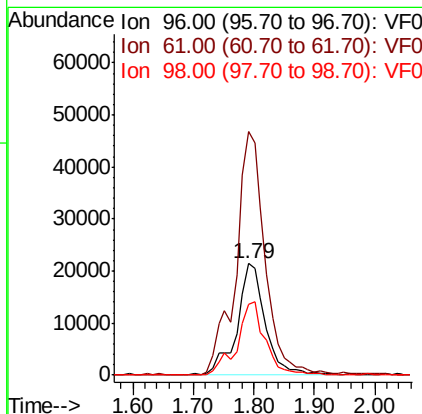
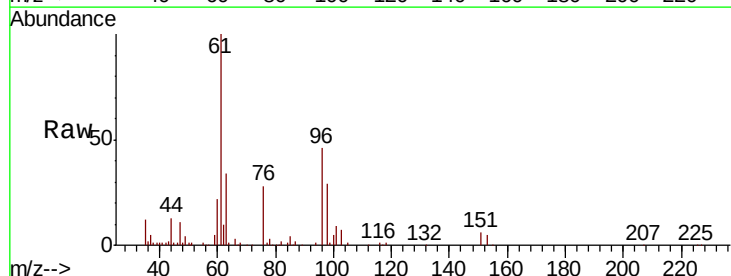
MMDadoda
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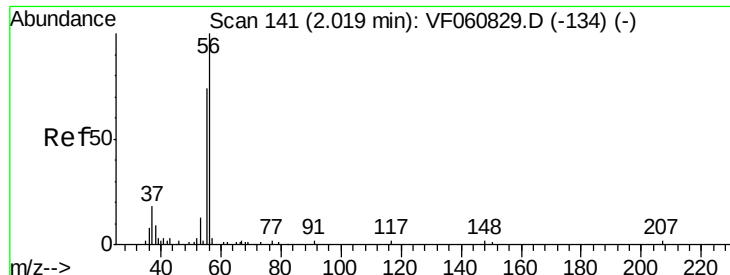


#12

1,1-Dichloroethene
 Concen: 46.564 ug/l
 RT: 1.79 min Scan# 118
 Delta R.T. -0.01 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion	96	Resp	69777
Ion Ratio	100	Lower	Upper
96	100		
61	218.2	177.3	265.9
98	63.2	49.6	74.4





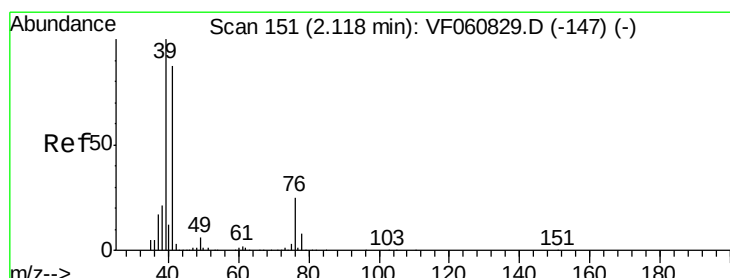
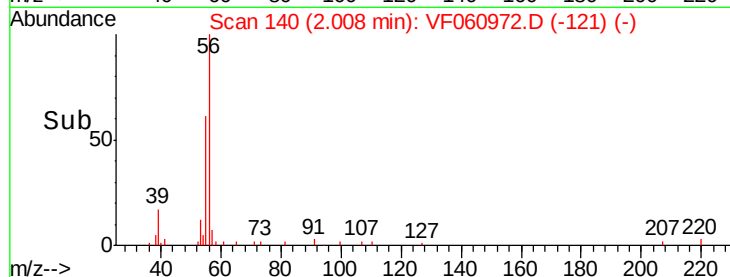
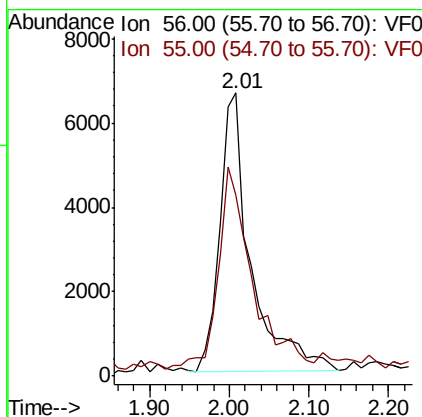
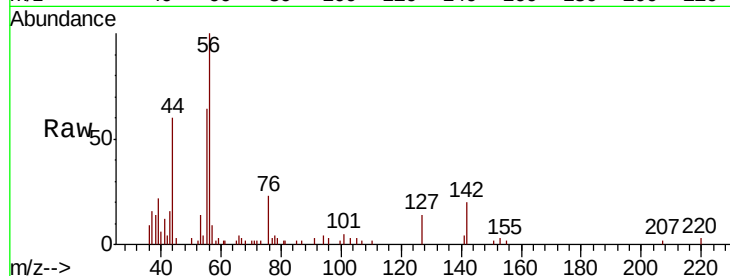
#13
Acrolein
Concen: 208.015 ug/l
RT: 2.01 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	64.0	61.2	91.8

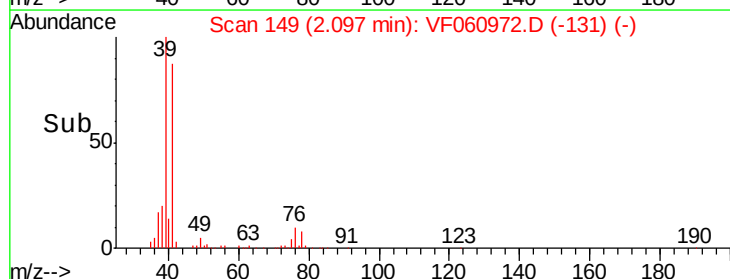
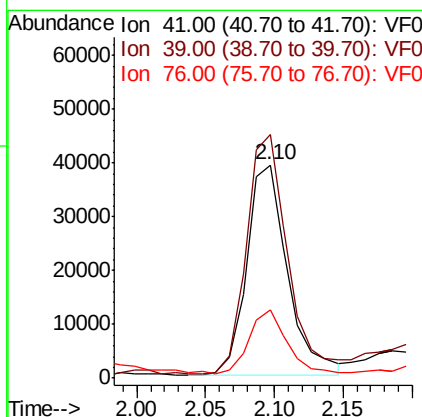
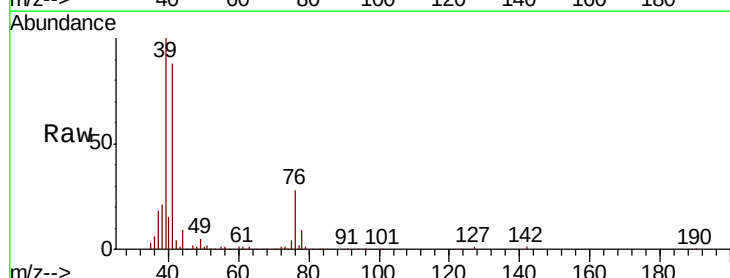
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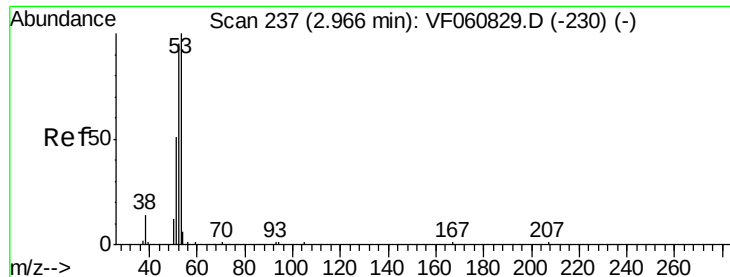
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#14
Allyl chloride
Concen: 43.843 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Lower	Upper
41	100		
39	114.0	91.7	137.5
76	31.9	23.5	35.3





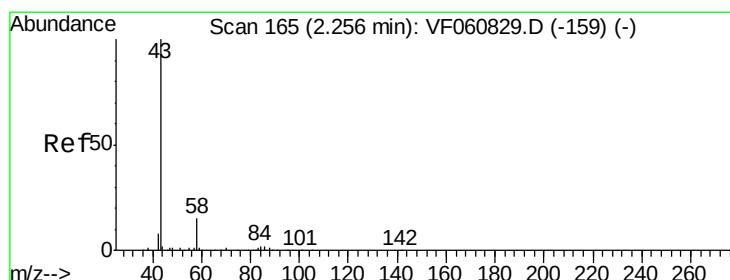
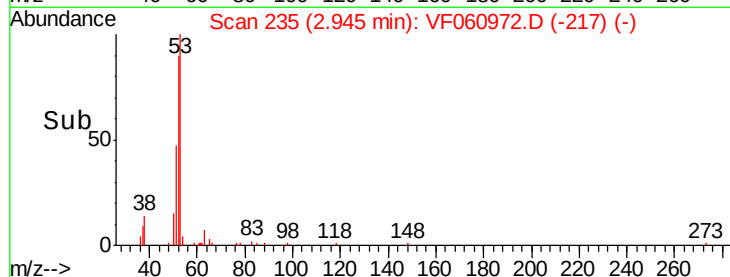
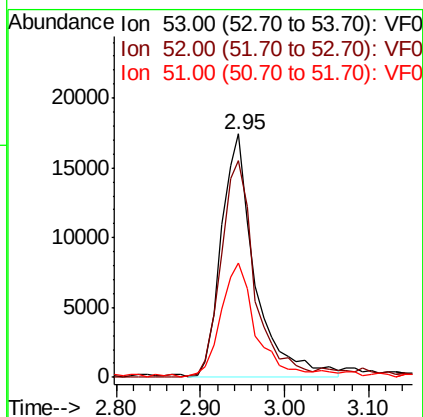
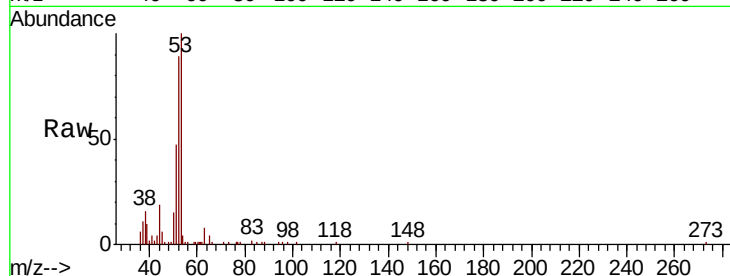
#15
 Acrylonitrile
 Concen: 237.823 ug/l
 RT: 2.95 min Scan# 235
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:	53	Resp:	48728
Ion	Ratio	Lower	Upper
53	100		
52	89.1	76.5	114.7
51	47.0	40.7	61.1

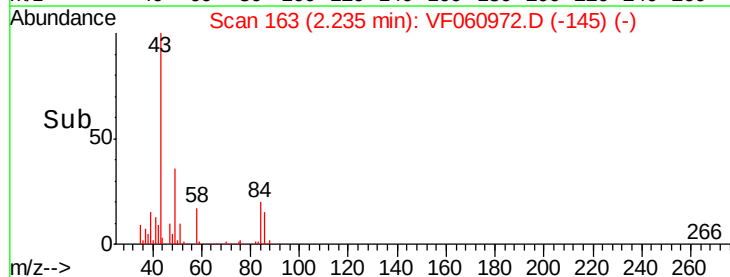
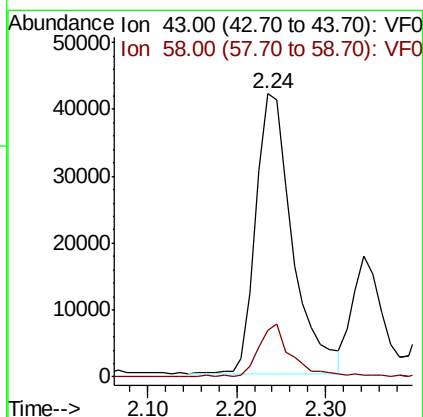
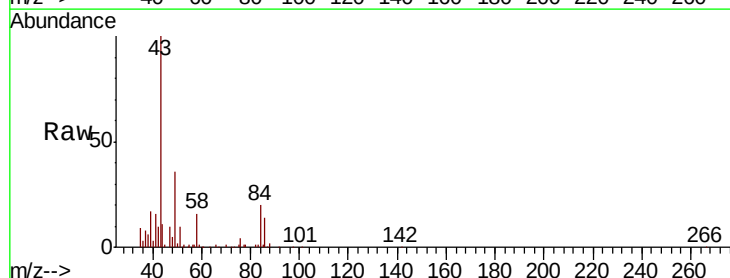
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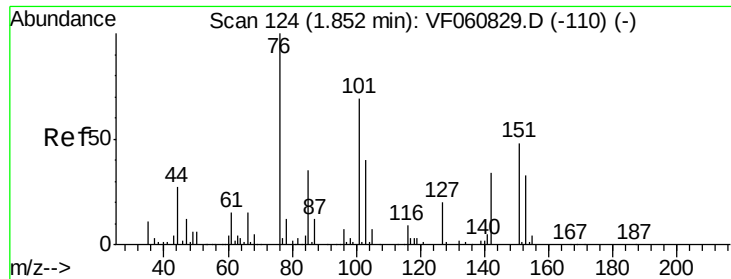
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#16
 Acetone
 Concen: 289.279 ug/l
 RT: 2.24 min Scan# 163
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion:	43	Resp:	118930
Ion	Ratio	Lower	Upper
43	100		
58	16.4	11.4	17.2





#17

Carbon Disulfide

Concen: 42.651 ug/l m

RT: 1.82 min Scan# 121

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tot Ion: 76 Resp: 171368

Ion Ratio Lower Upper

76 100

78 12.3 10.2 15.2

Instrument :

MSVOA_F

ClientSampleId :

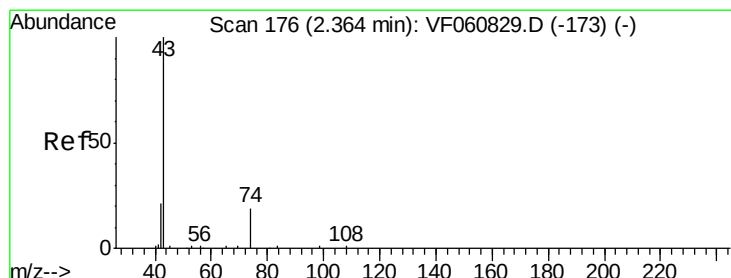
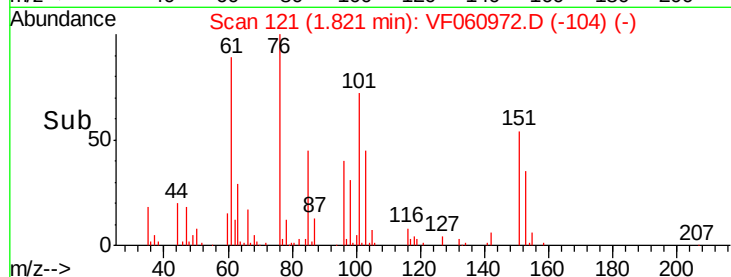
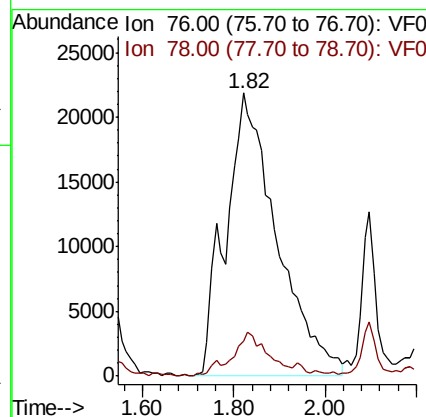
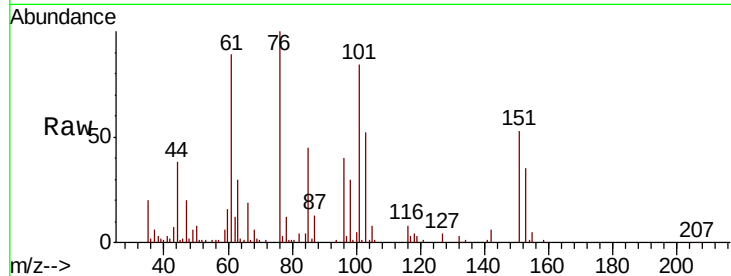
VSTDCCC050

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#18

Methyl Acetate

Concen: 51.837 ug/l

RT: 2.34 min Scan# 174

Delta R.T. -0.02 min

Lab File: VF060972.D

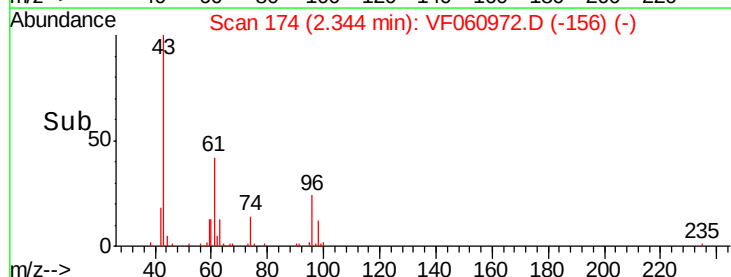
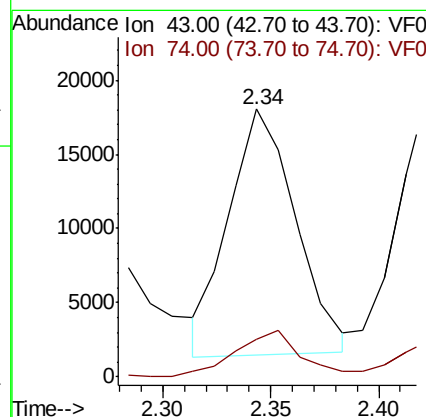
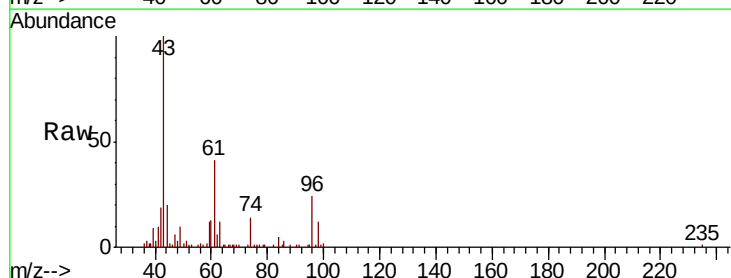
Acq: 11 Dec 2018 12:54

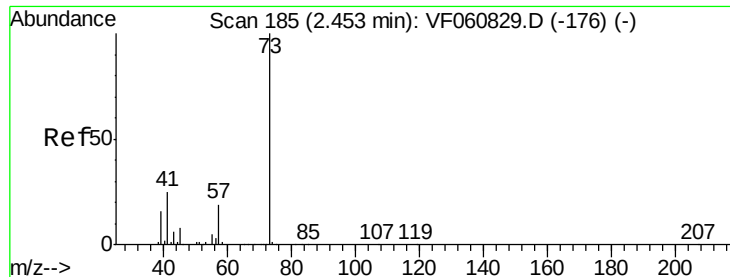
Tgt Ion: 43 Resp: 35712

Ion Ratio Lower Upper

43 100

74 14.3 13.3 19.9





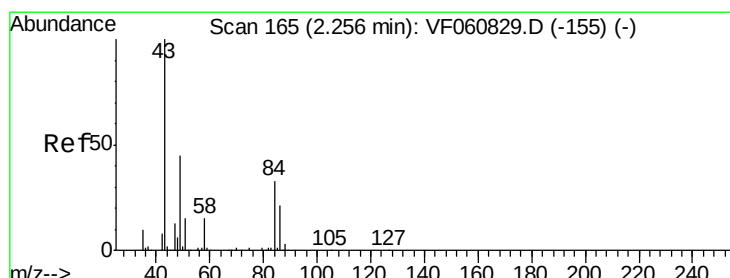
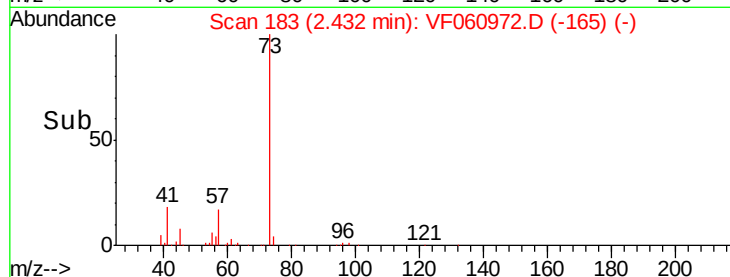
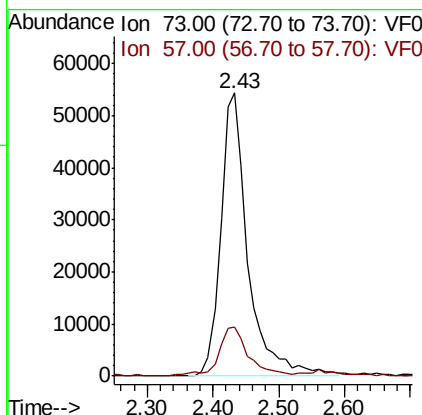
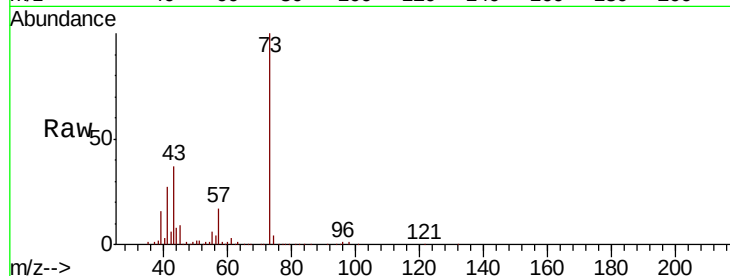
#19
Methyl tert-butyl Ether
Concen: 46.309 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 156298
Ion Ratio Lower Upper
73 100
57 17.4 15.3 22.9

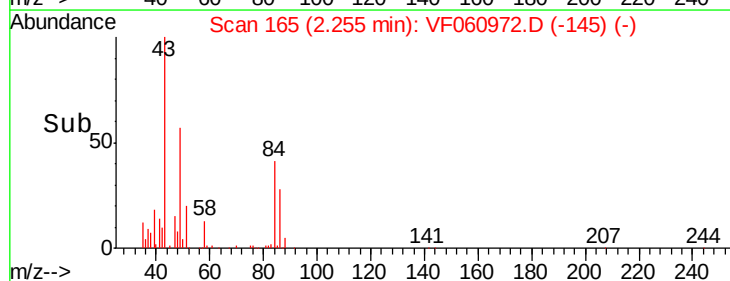
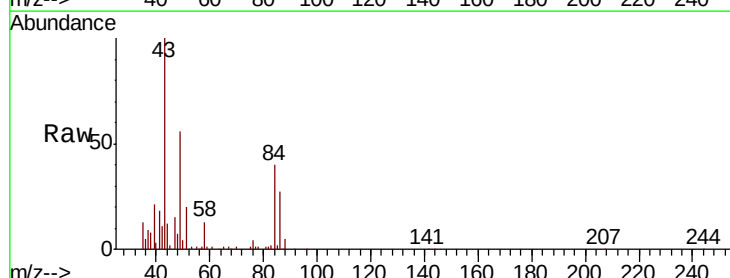
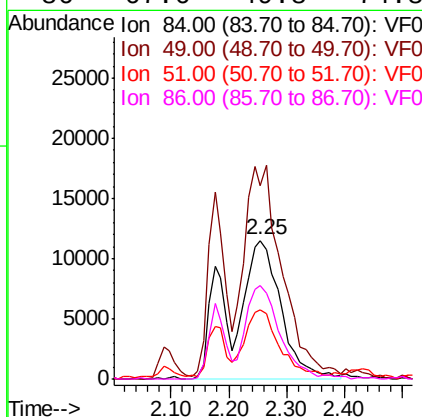
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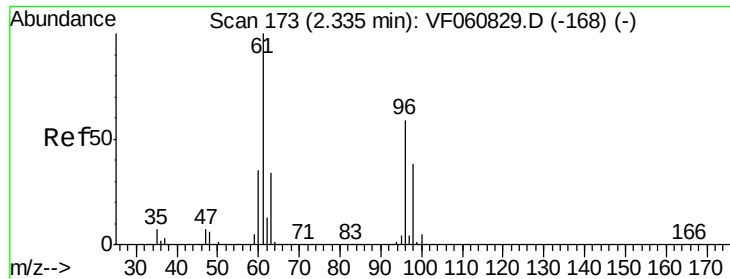
MMDadoda
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#20
Methylene Chloride
Concen: 45.615 ug/l m
RT: 2.25 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion: 84 Resp: 68798
Ion Ratio Lower Upper
84 100
49 139.4 111.3 166.9
51 49.5 38.0 57.0
86 67.6 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 40.352 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

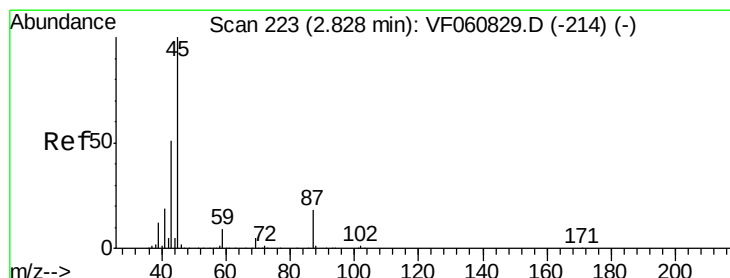
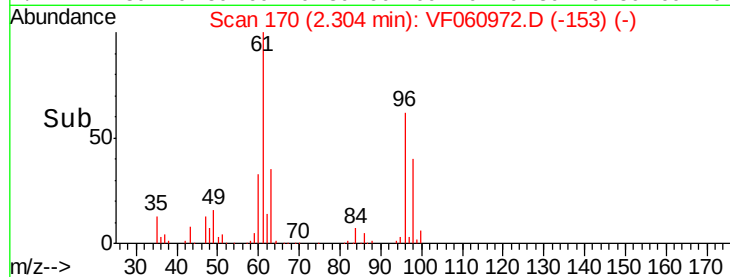
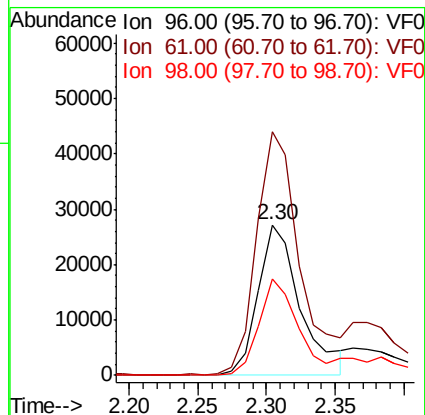
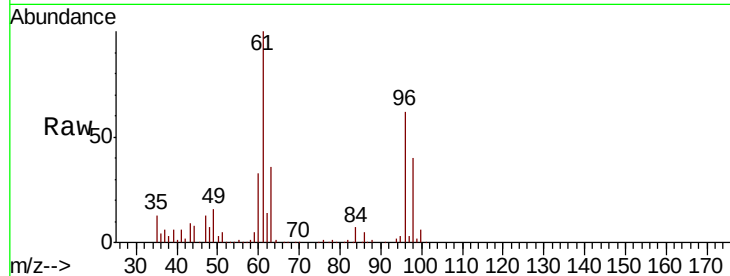
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	58296
Ion Ratio	Lower	Upper	
96	100		
61	161.8	134.5	201.7
98	64.0	51.6	77.4

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#22

Diisopropyl ether

Concen: 50.196 ug/l

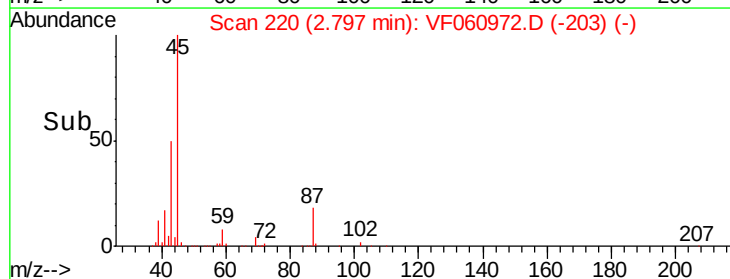
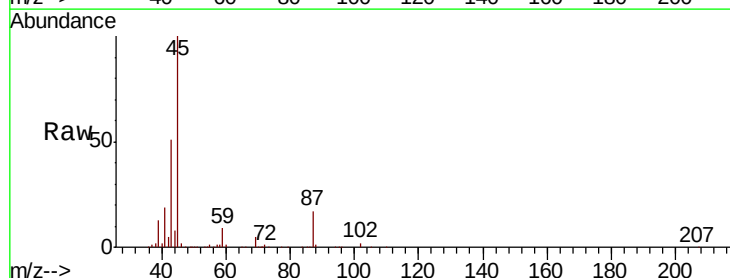
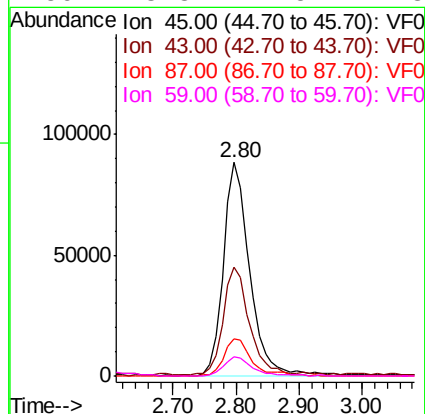
RT: 2.80 min Scan# 220

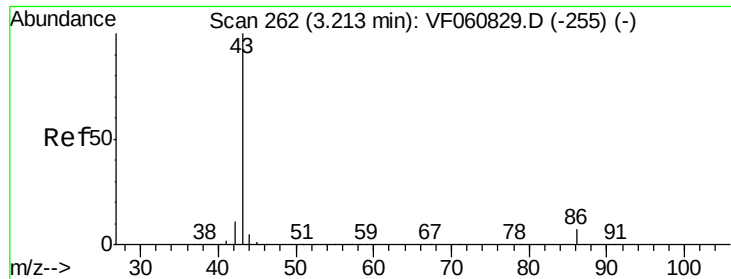
Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	45	Resp:	255200
Ion Ratio	Lower	Upper	
45	100		
43	51.0	41.0	61.6
87	17.5	14.6	22.0
59	8.8	7.5	11.3





#23

Vinyl Acetate

Concen: 260.602 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 605632

Ion Ratio Lower Upper

43 100

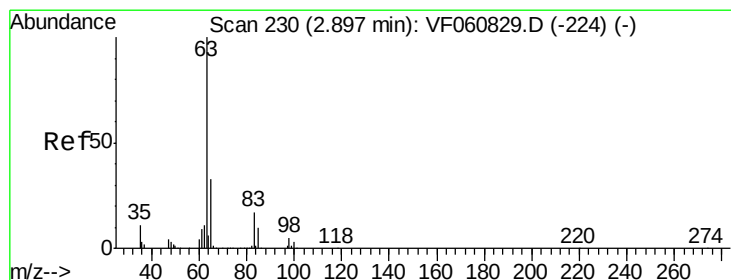
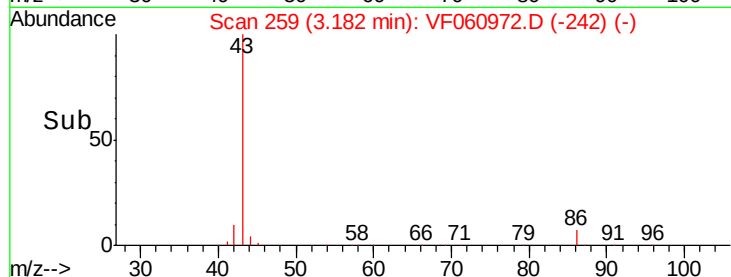
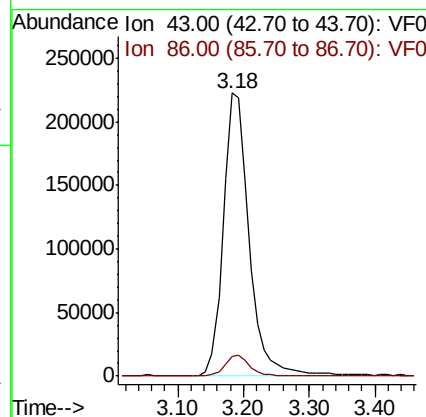
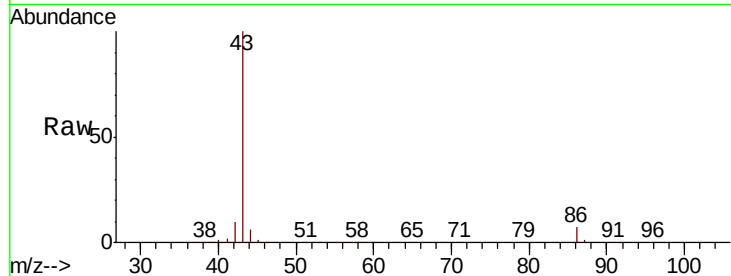
86 7.1 5.4 8.0

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#24

1,1-Dichloroethane

Concen: 50.866 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

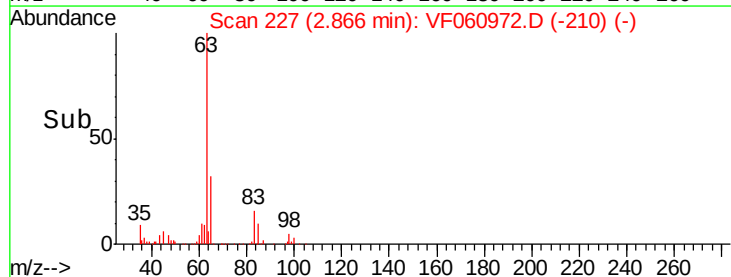
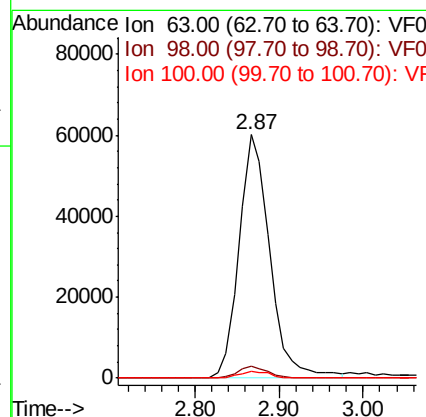
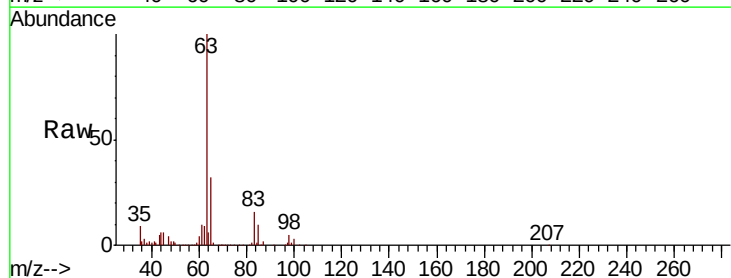
Tgt Ion: 63 Resp: 153861

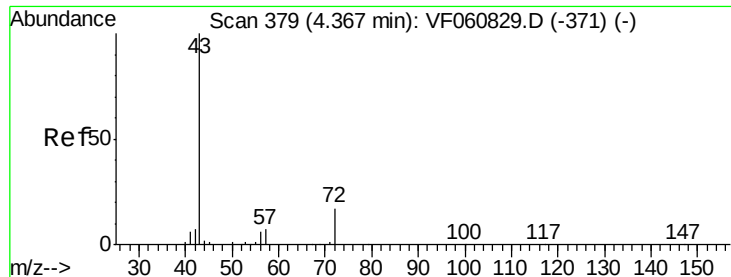
Ion Ratio Lower Upper

63 100

98 4.8 2.7 8.1

100 2.8 1.5 4.5





#25

2-Butanone

Concen: 257.916 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 183405

Ion Ratio Lower Upper

43 100

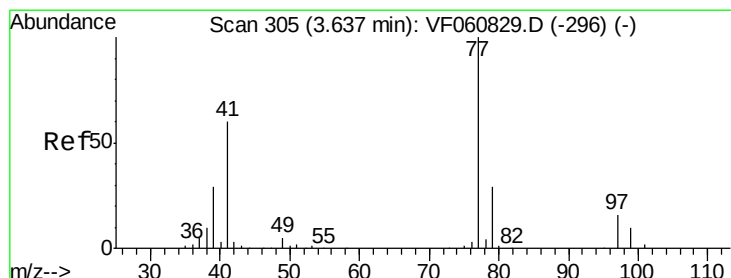
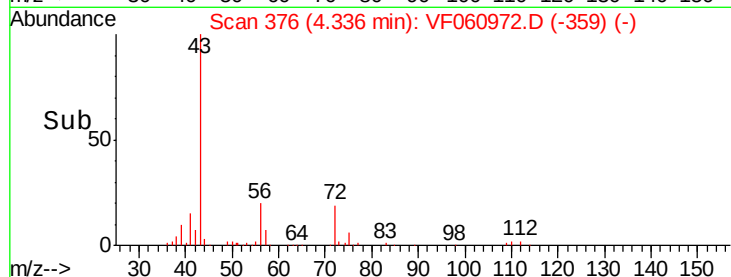
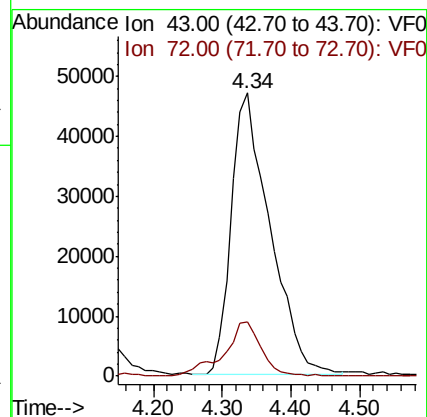
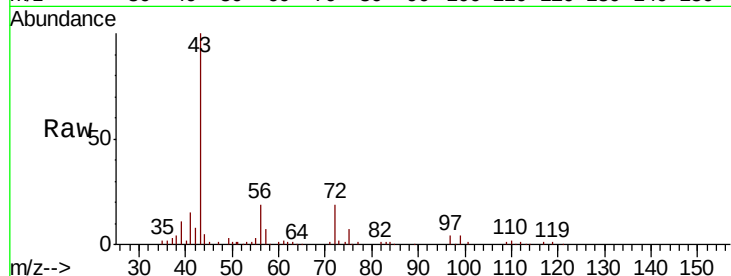
72 19.1 15.4 23.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 48.238 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.04 min

Lab File: VF060972.D

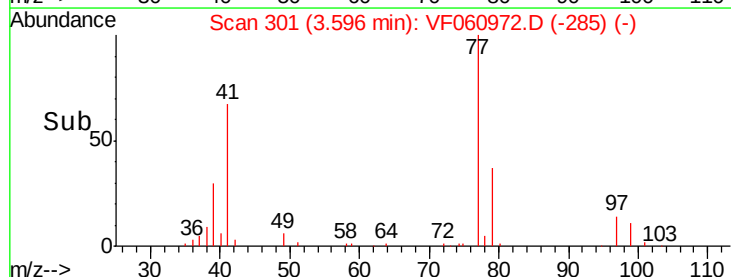
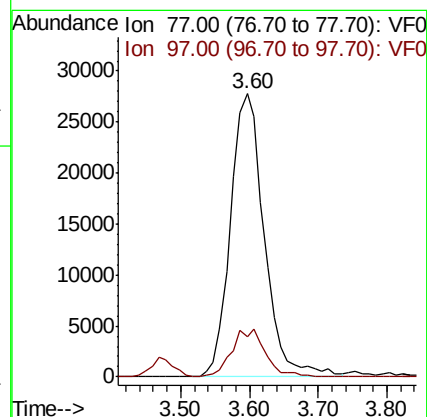
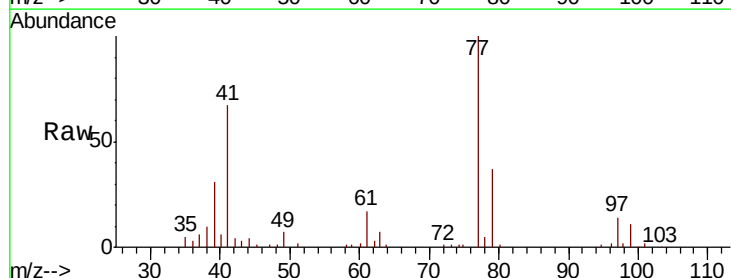
Acq: 11 Dec 2018 12:54

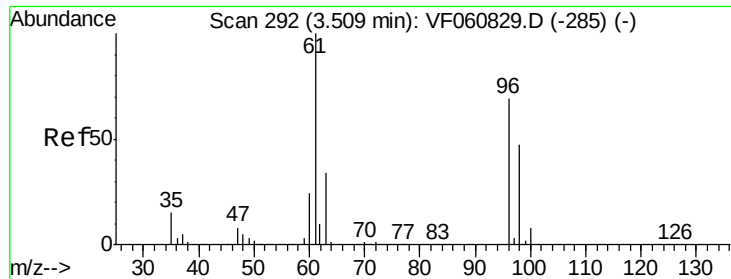
Tgt Ion: 77 Resp: 94595

Ion Ratio Lower Upper

77 100

97 14.4 8.6 25.8





#27

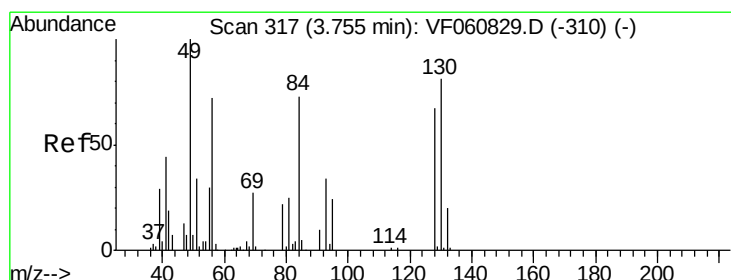
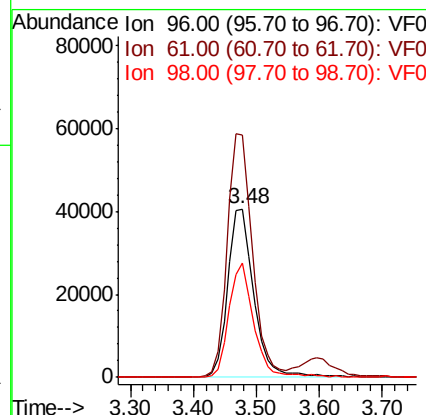
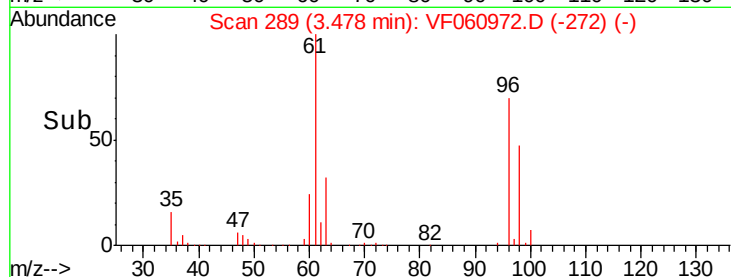
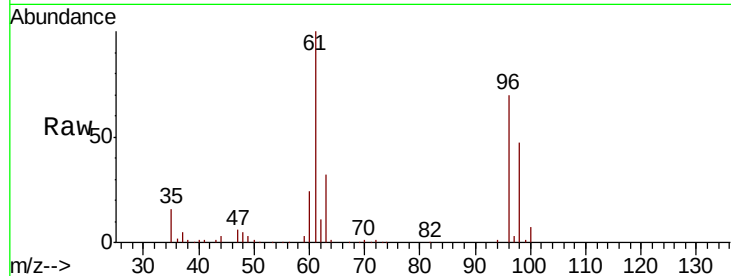
cis-1,2-Dichloroethene
Concen: 49.789 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	117102		
61	143.6	0.0	290.6	
98	68.1	0.0	137.8	

Manual Integrations
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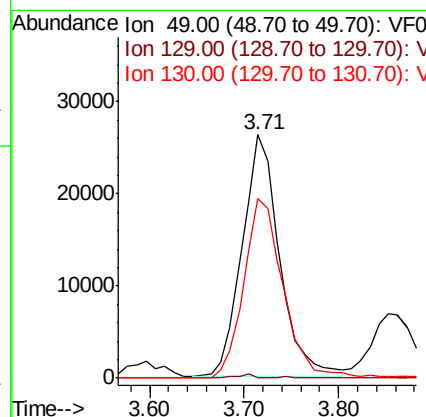
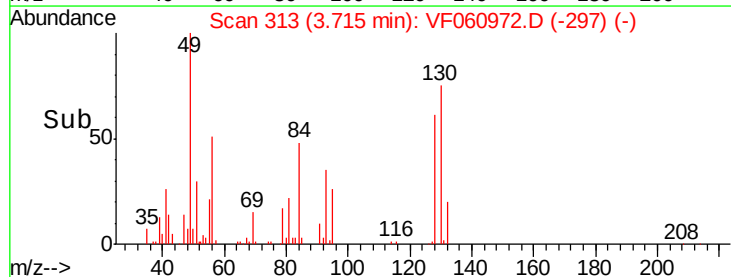
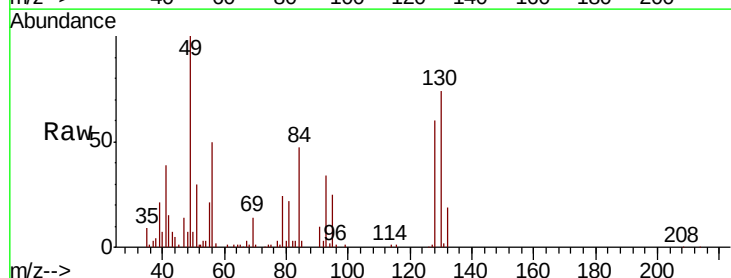
MMDadoda
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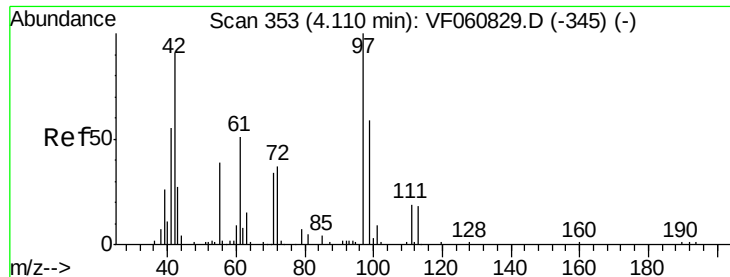


#28

Bromochloromethane
Concen: 49.782 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	72268		
129	0.0	0.0	4.4	
130	73.8	64.2	96.4	





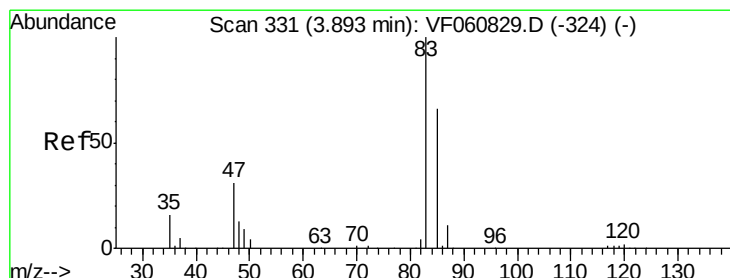
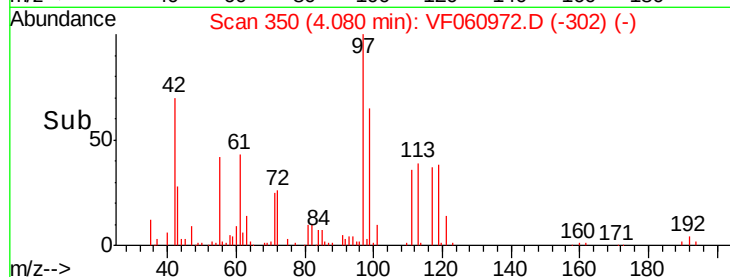
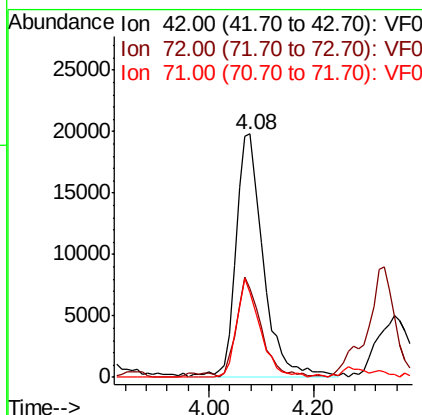
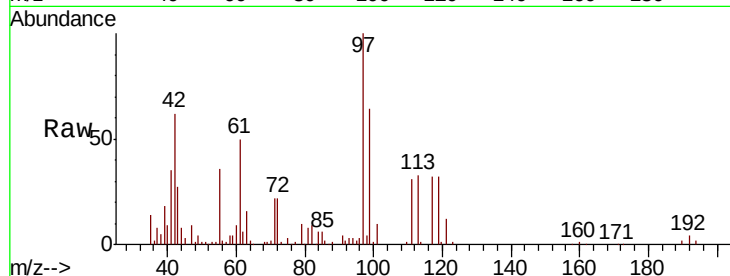
#29
Tetrahydrofuran
Concen: 232.922 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.8	31.9	47.9
71	34.6	28.7	43.1

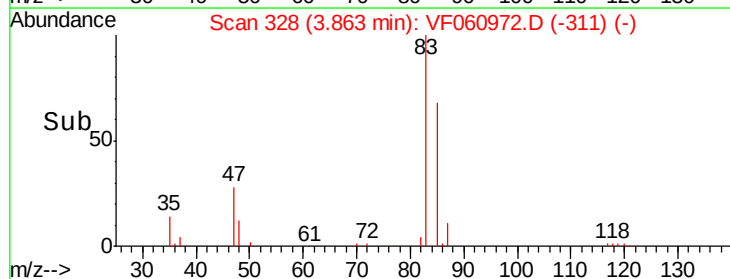
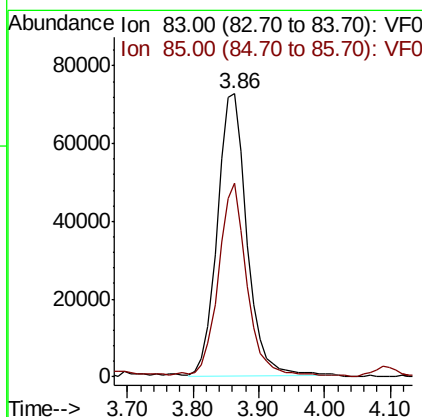
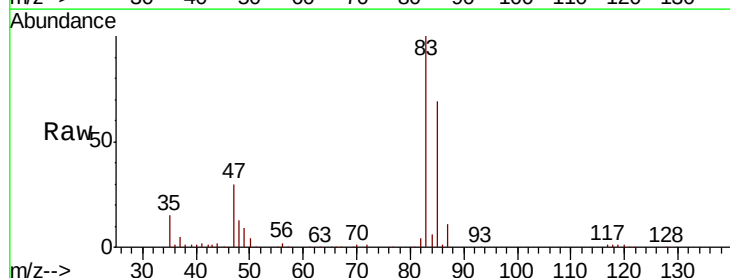
Manual Integrations
APPROVED

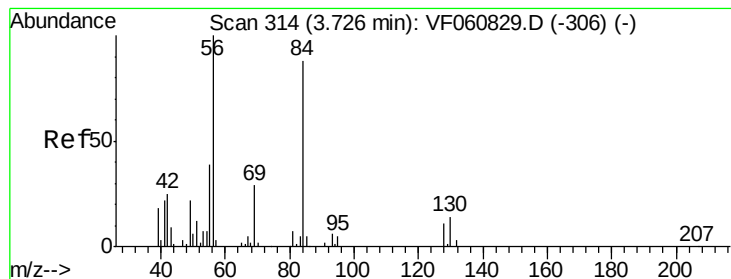
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#30
Chloroform
Concen: 48.740 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.5	53.4	80.2





#31

Cyclohexane

Concen: 44.307 ug/l m

RT: 3.69 min Scan# 310

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

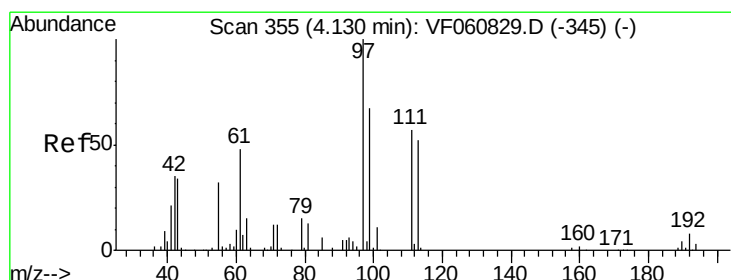
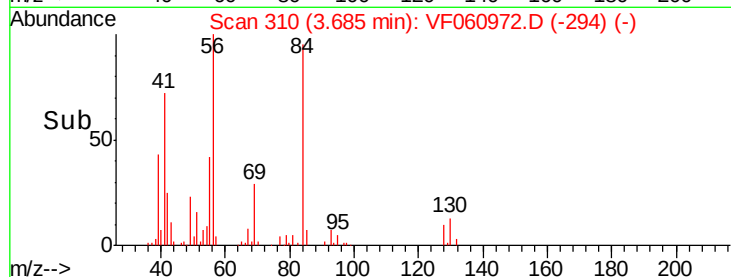
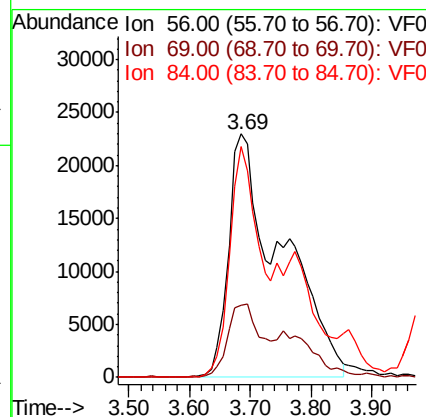
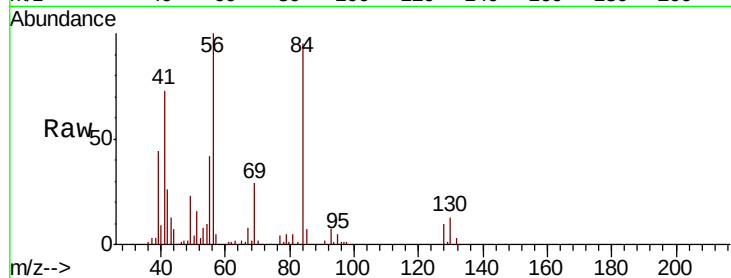
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	139088
Ion Ratio	Lower	Upper	
56	100		
69	29.5	23.0	34.4
84	94.9	70.4	105.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 42.803 ug/l

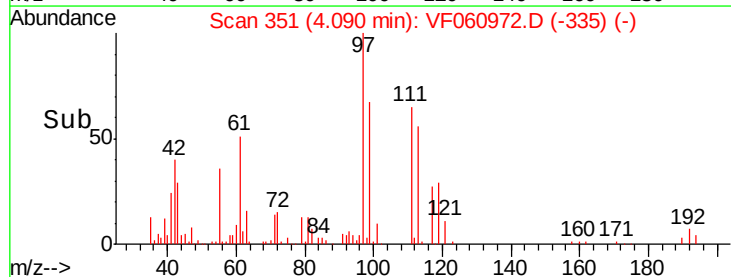
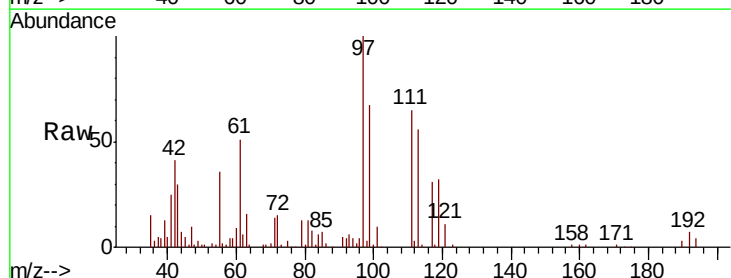
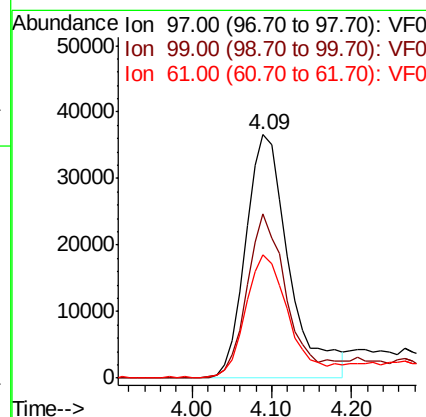
RT: 4.09 min Scan# 351

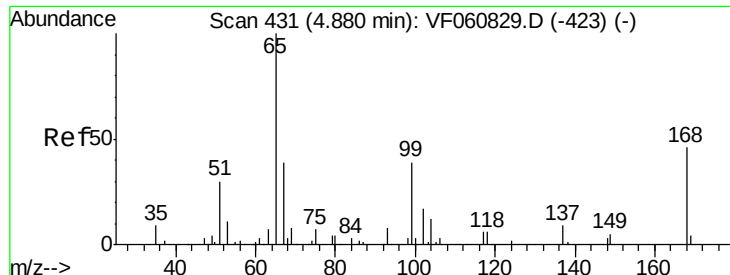
Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	97	Resp:	138195
Ion Ratio	Lower	Upper	
97	100		
99	67.4	53.5	80.3
61	50.5	38.6	58.0





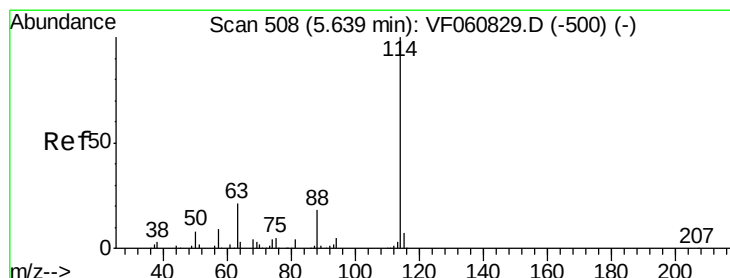
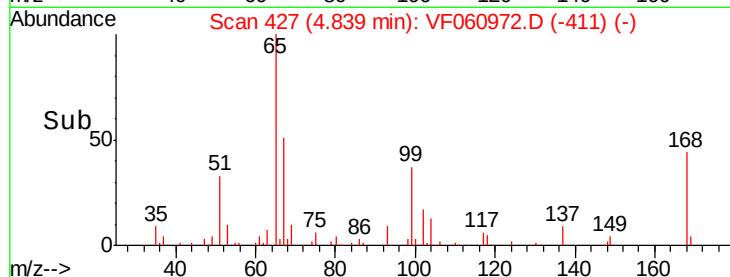
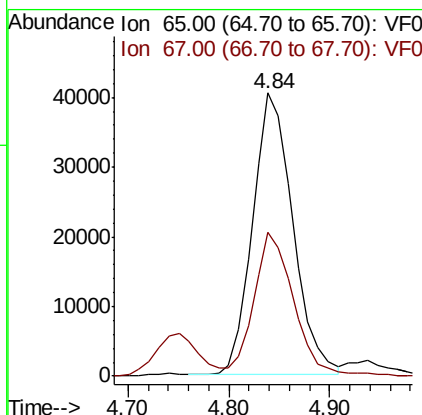
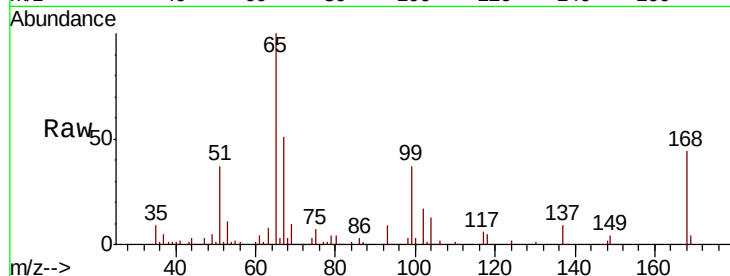
#33
 1,2-Dichloroethane-d4
 Concen: 50.413 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	112394		
67	50.9	0.0	96.4	

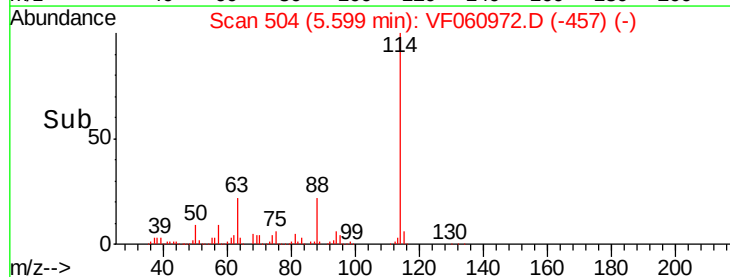
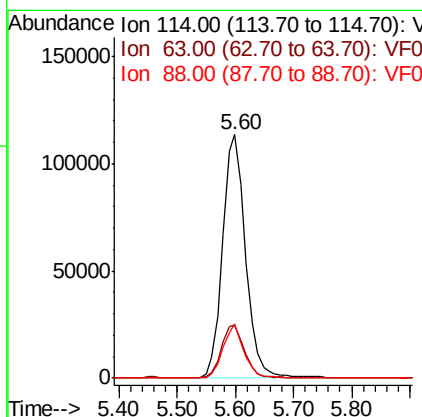
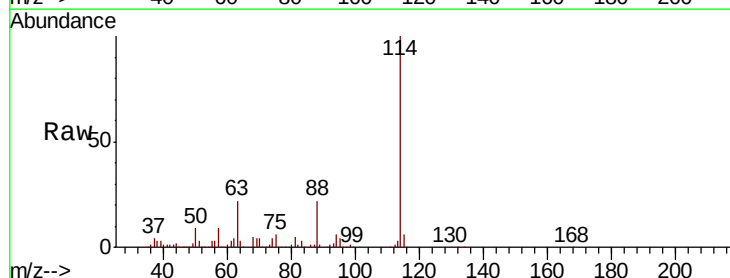
Manual Integrations
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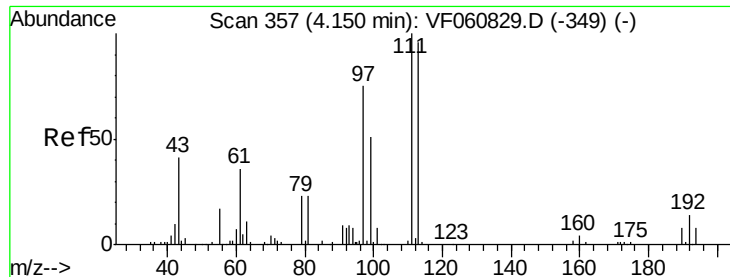
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	311096		
63	21.8	0.0	41.6	
88	22.2	0.0	36.6	





#35

Dibromofluoromethane

Concen: 50.985 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

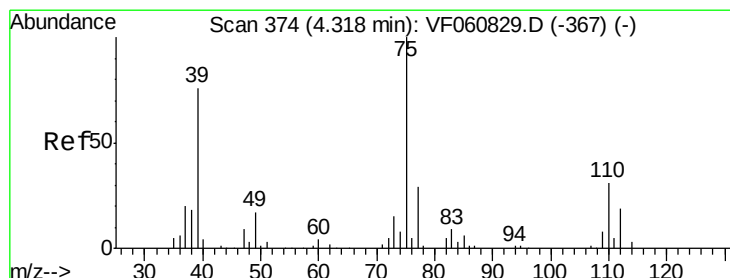
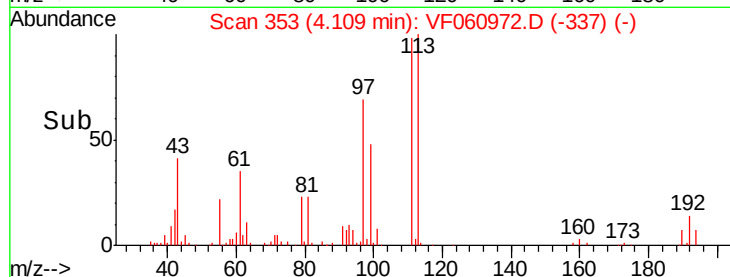
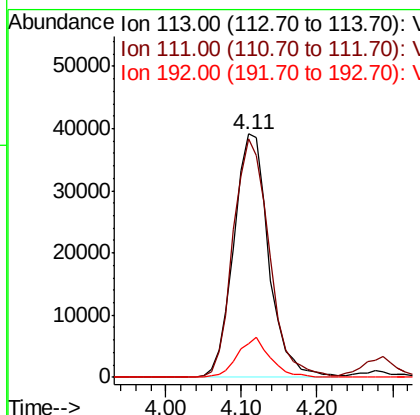
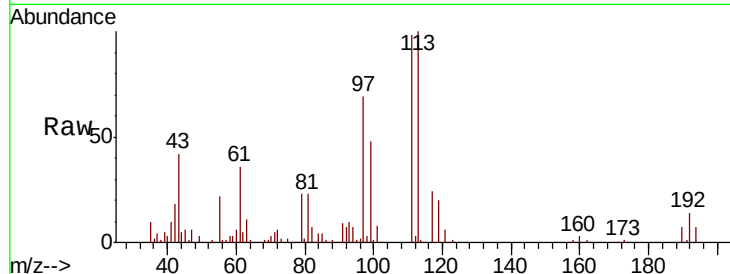
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	125832
Ion Ratio	Lower	Upper	
113	100		
111	97.9	83.0	124.6
192	13.7	12.3	18.5

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 47.167 ug/l

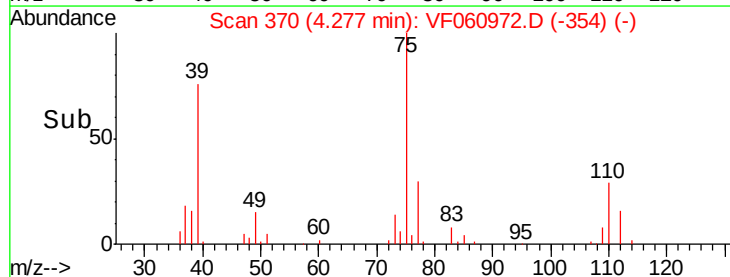
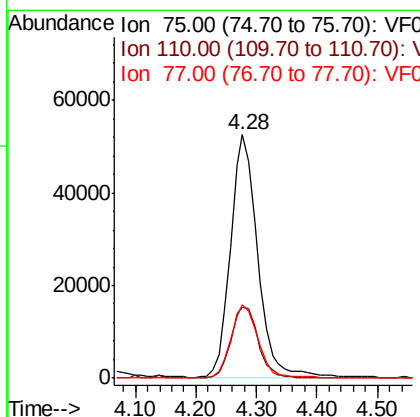
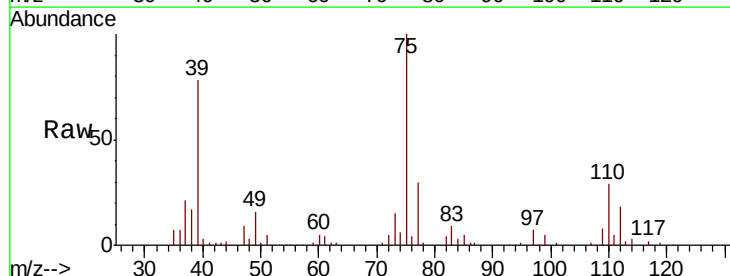
RT: 4.28 min Scan# 370

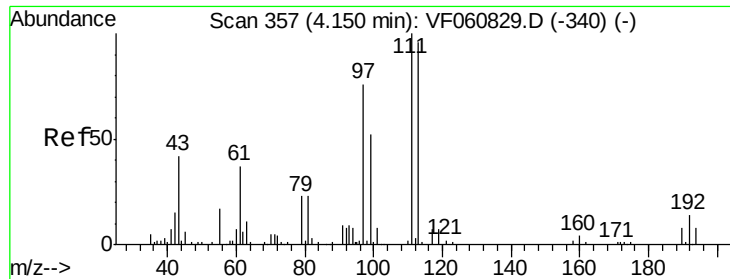
Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	75	Resp:	162752
Ion Ratio	Lower	Upper	
75	100		
110	29.1	15.6	46.8
77	30.1	23.4	35.0





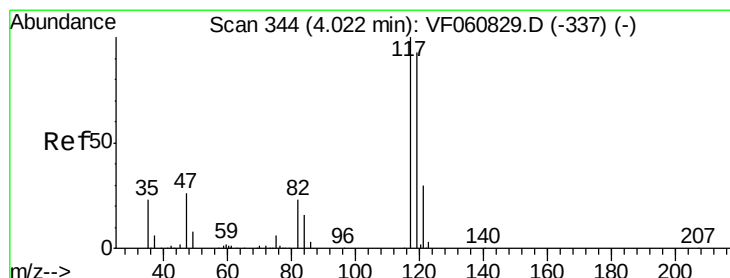
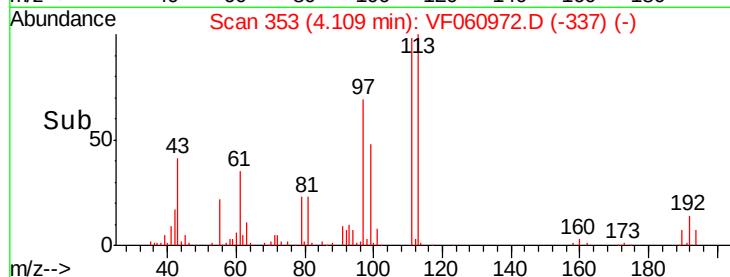
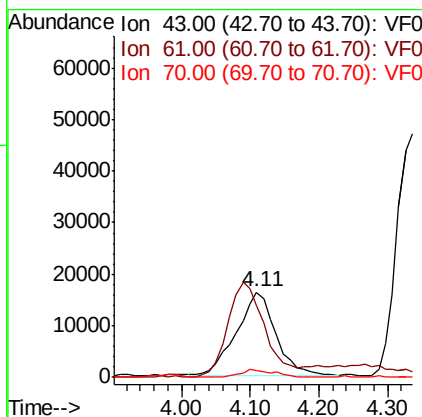
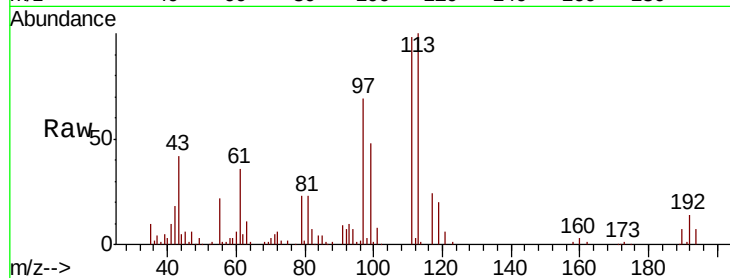
#37
Ethyl Acetate
Concen: 45.802 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	84.1	68.6	103.0			
70	7.6	9.0	13.4			

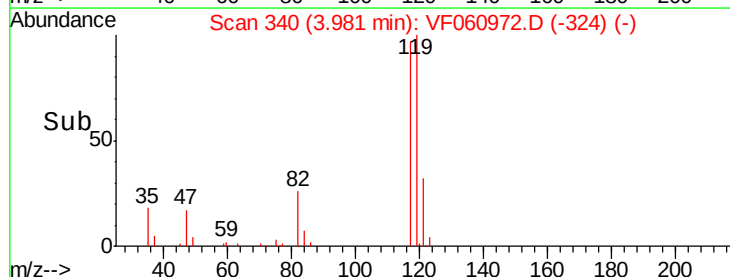
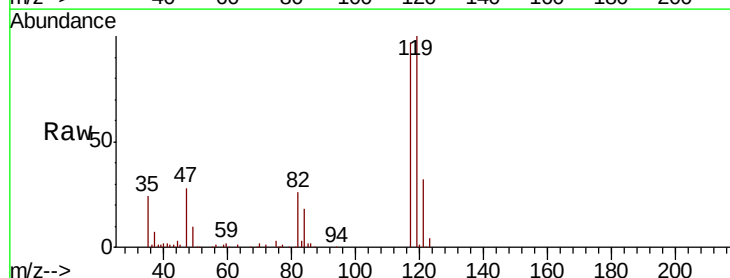
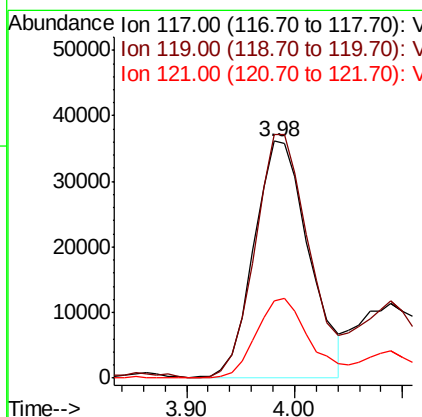
Manual Integrations
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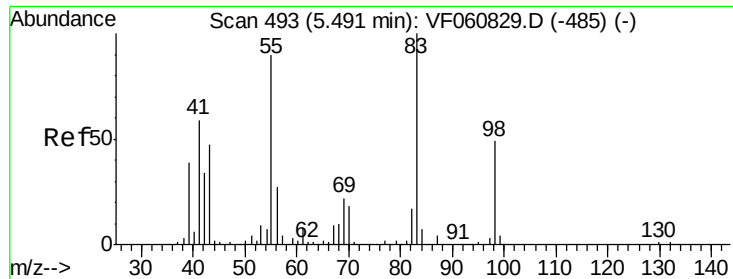
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#38
Carbon Tetrachloride
Concen: 41.746 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	102.9	74.4	111.6			
121	33.0	23.5	35.3			





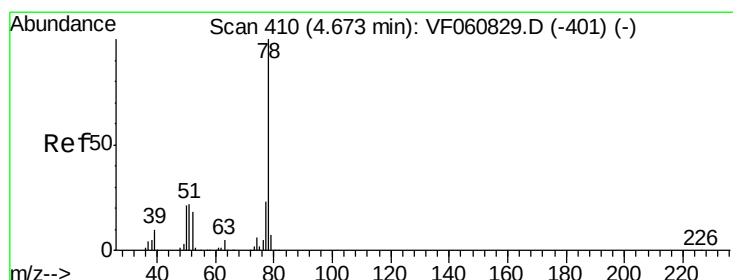
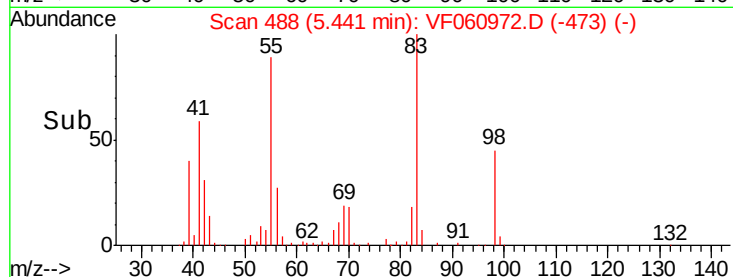
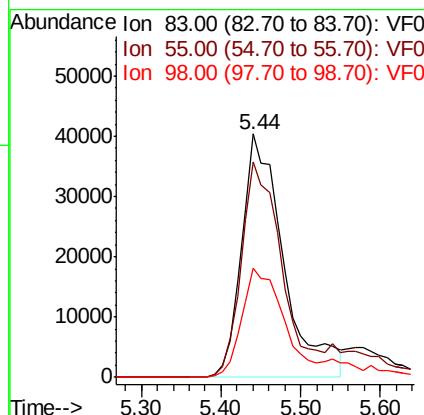
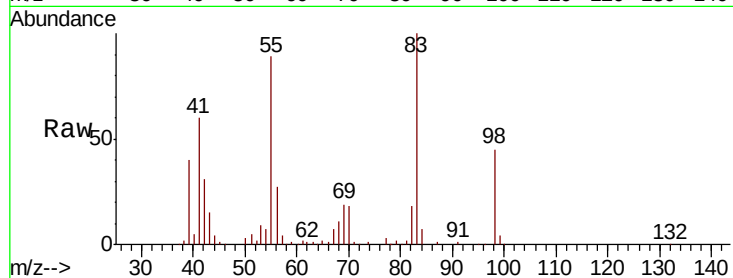
#39
Methylvlcyclohexane
Concen: 40.815 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.05 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	83.00	Resp	147591
Ion Ratio	100	Lower	Upper
83	100		
55	88.6	72.1	108.1
98	45.1	39.1	58.7

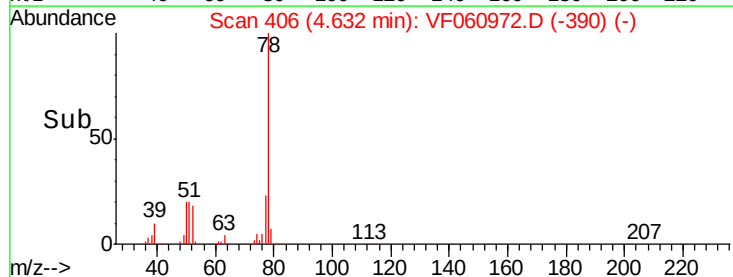
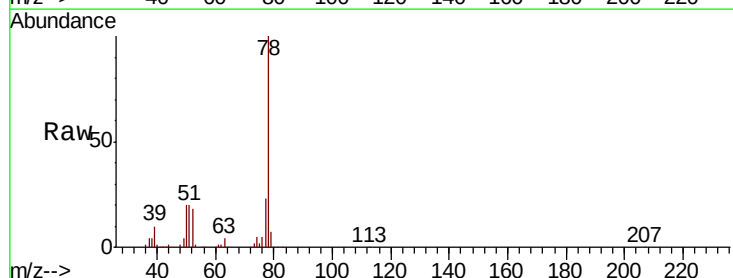
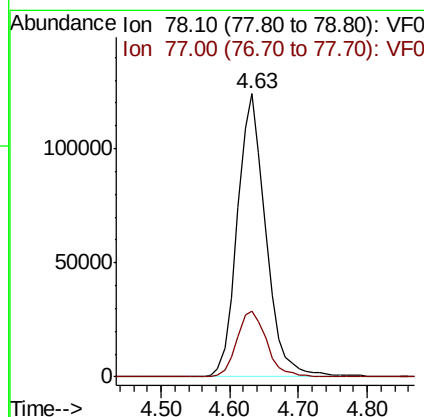
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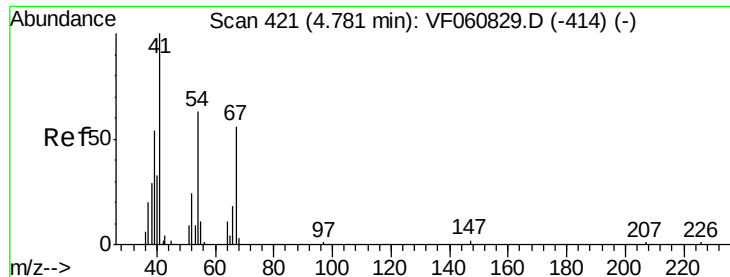
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#40
Benzene
Concen: 46.559 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	78	Resp	354923
Ion Ratio	100	Lower	Upper
78	100		
77	23.4	18.7	28.1





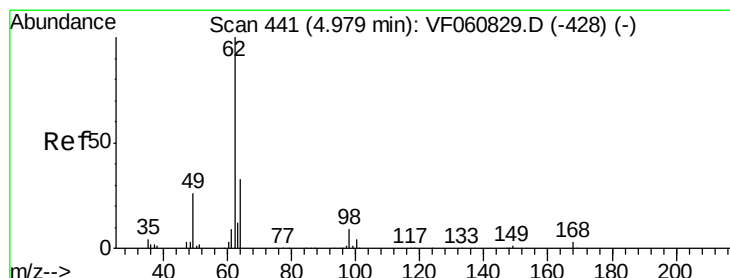
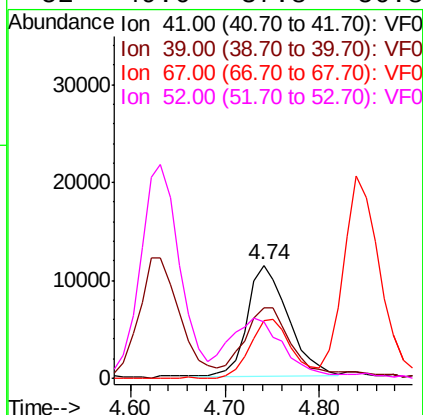
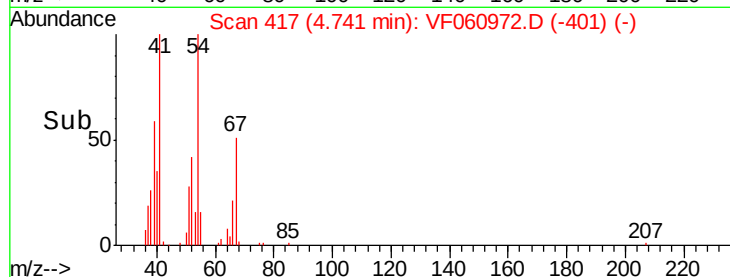
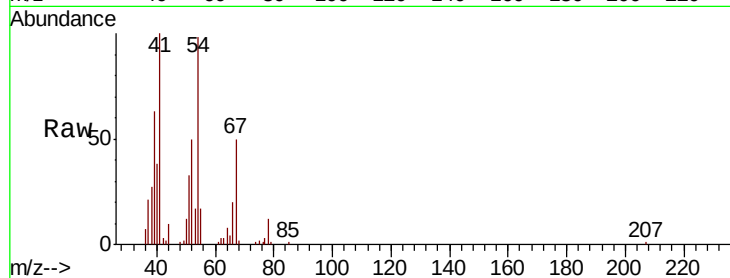
#41
Methacrylonitrile
Concen: 47.596 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	62.6	53.0	79.6	
67	50.4	43.8	65.6	
52	49.6	37.8	56.8	

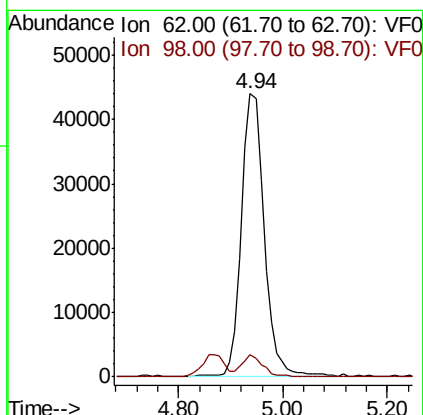
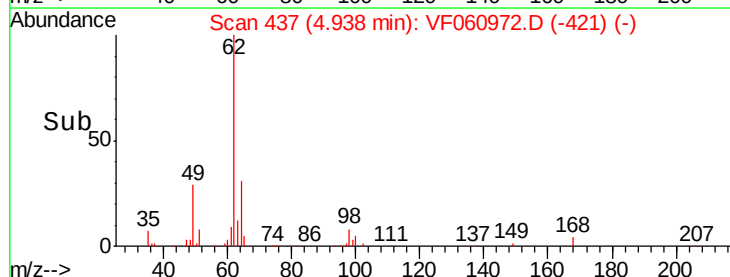
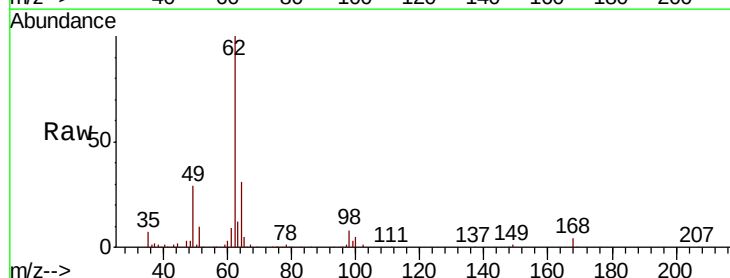
Manual Integrations
APPROVED

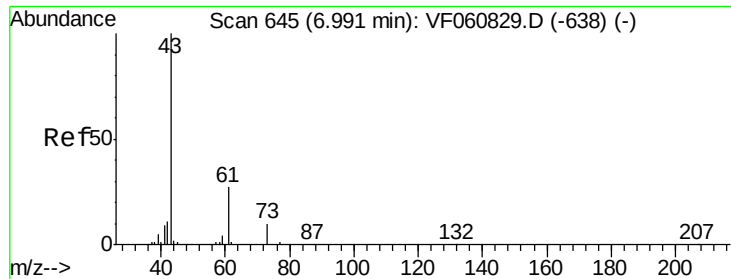
MMDadoda
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#42
1,2-Dichloroethane
Concen: 46.808 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.1	0.0	17.2	





#43

Isopropyl Acetate

Concen: 43.819 ug/l

RT: 6.96 min Scan# 642

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

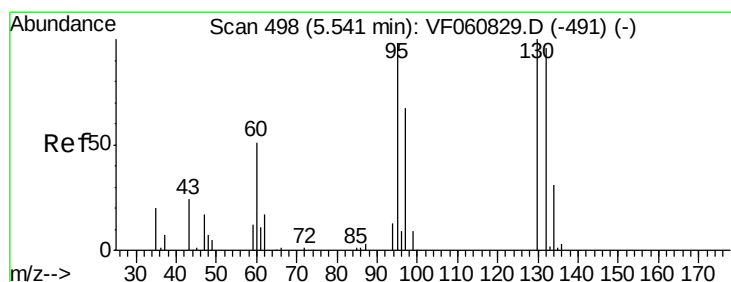
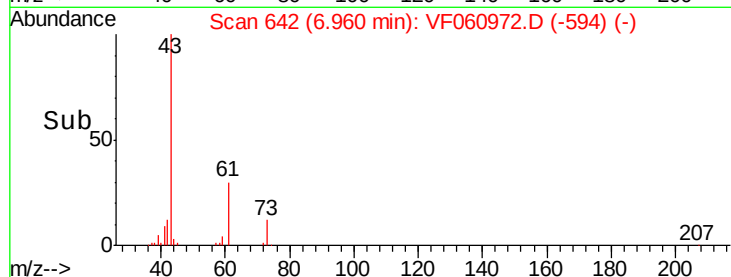
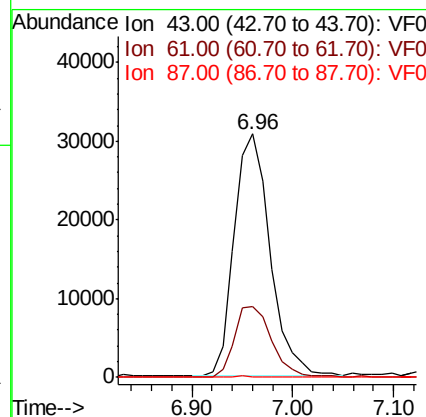
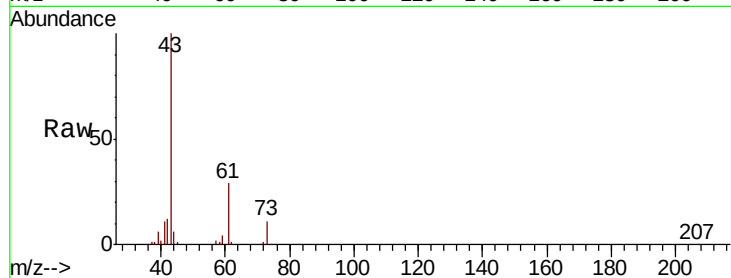
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	76392
Ion	Ratio	Lower	Upper
43	100		
61	29.1	21.4	32.0
87	0.0	0.2	0.4

Manual Integrations
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#44

Trichloroethene

Concen: 45.309 ug/l

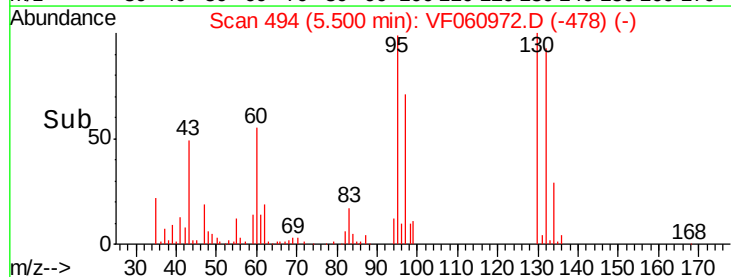
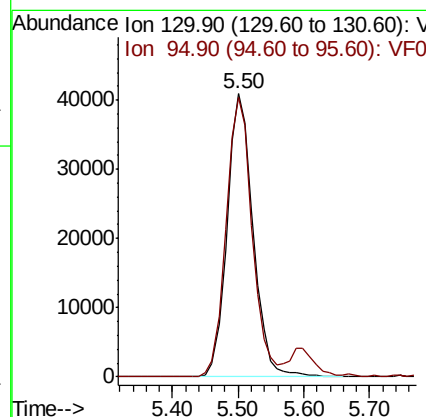
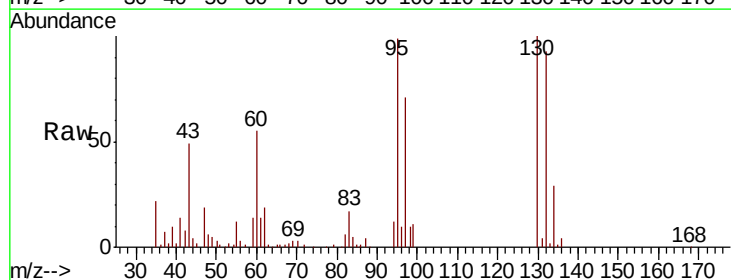
RT: 5.50 min Scan# 494

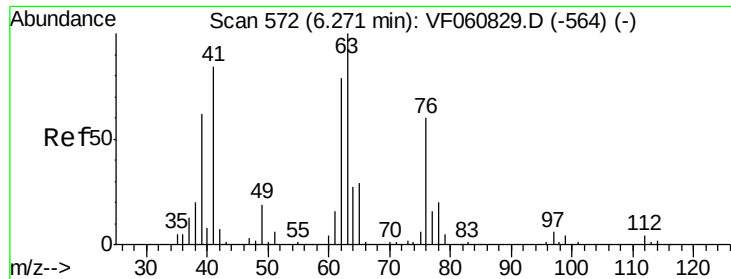
Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	130	Resp:	112932
Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	195.6





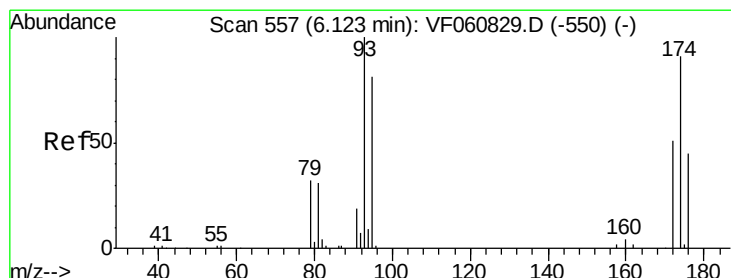
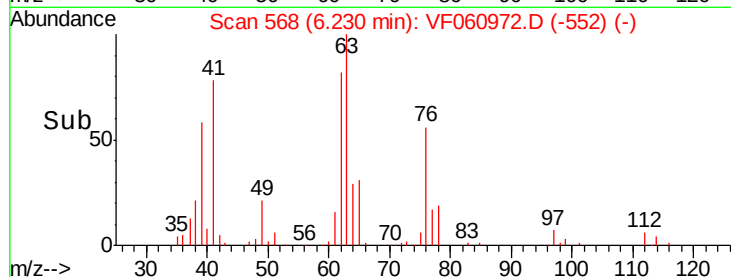
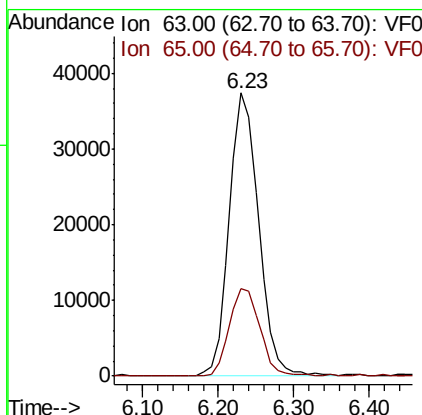
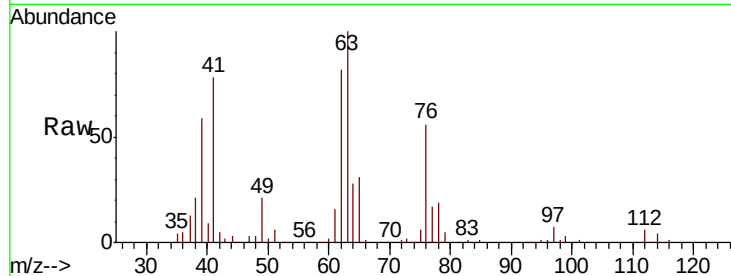
#45
 1,2-Dichloropropane
 Concen: 50.926 ug/l
 RT: 6.23 min Scan# 568
 Delta R.T. -0.04 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 100824
 Ion Ratio Lower Upper
 63 100
 65 31.1 23.2 34.8

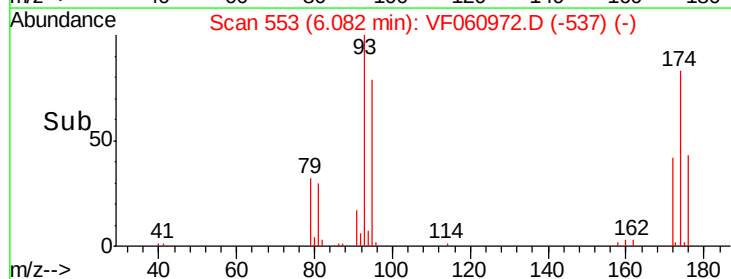
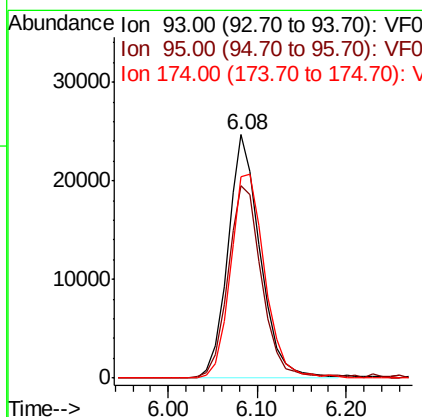
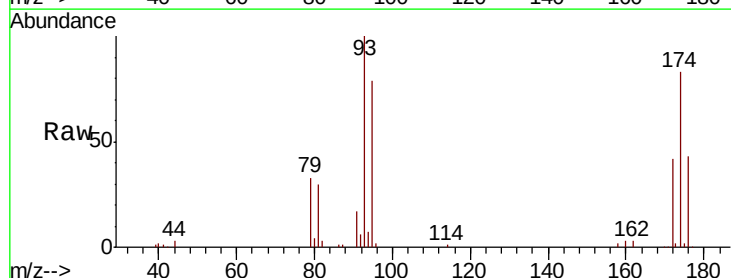
Manual Integrations
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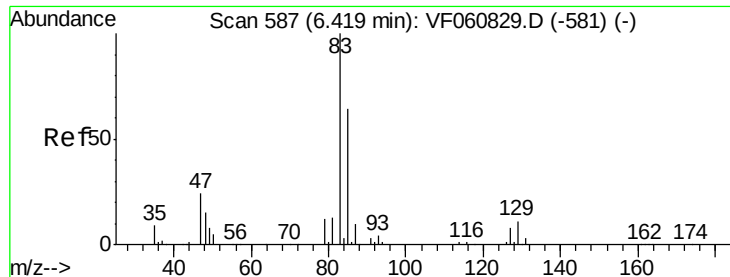
MMDadoda
 12/12/2018 1:28:32 PM



#46
 Dibromomethane
 Concen: 46.538 ug/l
 RT: 6.08 min Scan# 553
 Delta R.T. -0.04 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion: 93 Resp: 62502
 Ion Ratio Lower Upper
 93 100
 95 79.1 64.7 97.1
 174 82.8 73.0 109.6





#47

Bromodichloromethane

Concen: 47.187 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

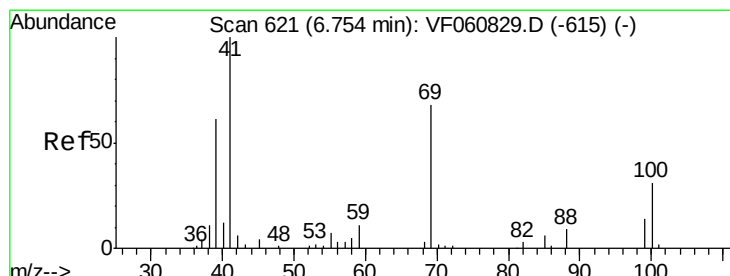
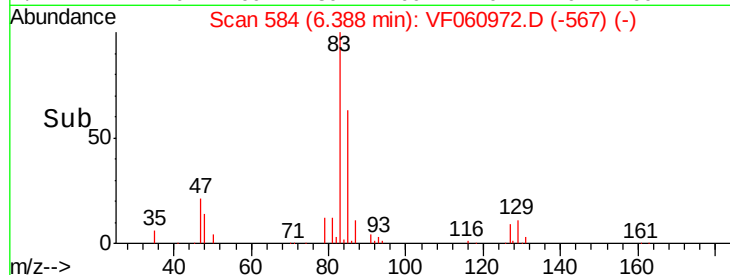
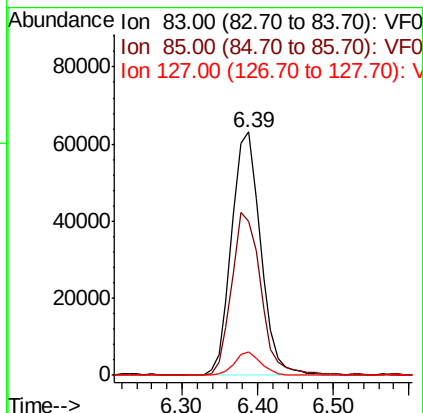
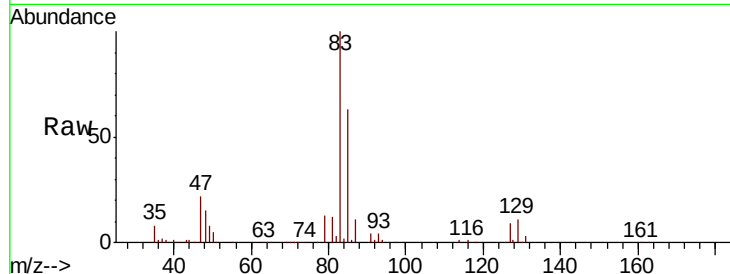
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	168320
Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.1	76.7
127	9.8	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 42.348 ug/l

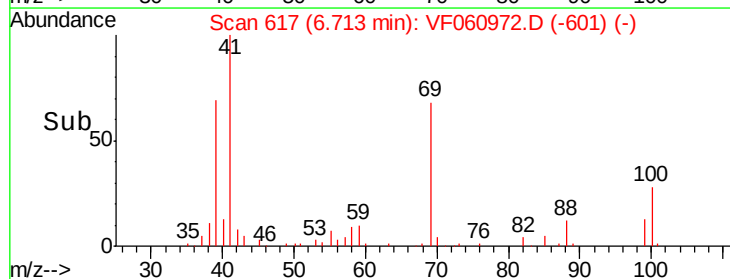
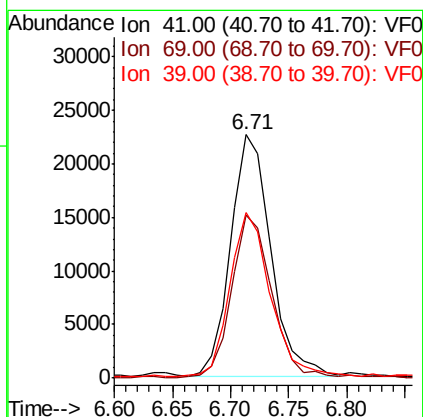
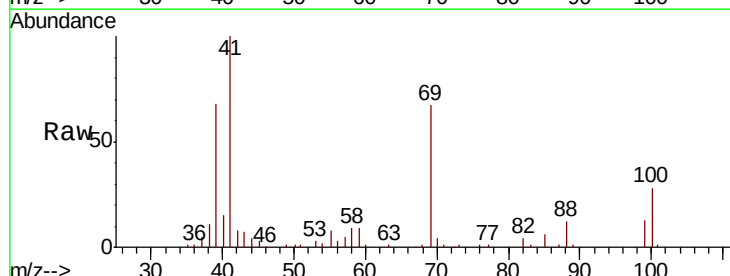
RT: 6.71 min Scan# 617

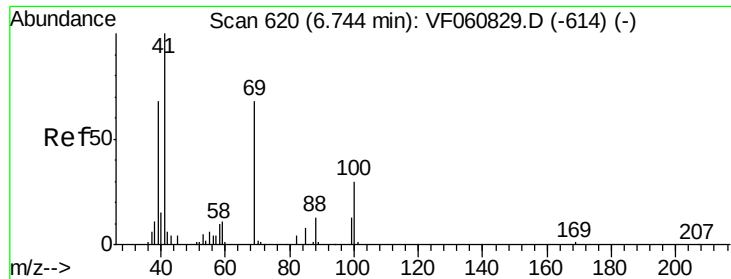
Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	41	Resp:	53751
Ion	Ratio	Lower	Upper
41	100		
69	67.0	53.9	80.9
39	68.1	49.0	73.6





#49

1,4-Dioxane

Concen: 942.699 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

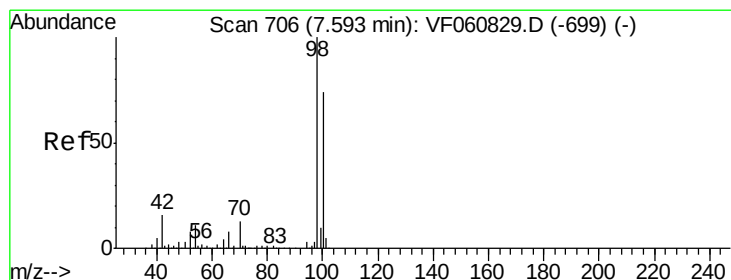
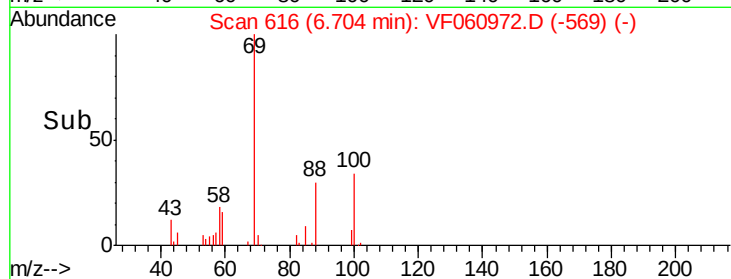
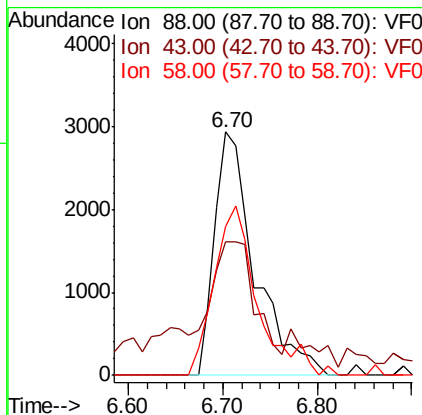
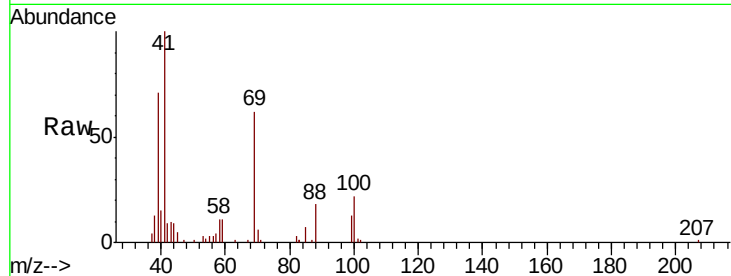
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	8757
Ion	Ratio	Lower	Upper
88	100		
43	54.7	42.0	63.0
58	61.4	61.8	92.8#

Manual Integrations
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#50

Toluene-d8

Concen: 47.427 ug/l

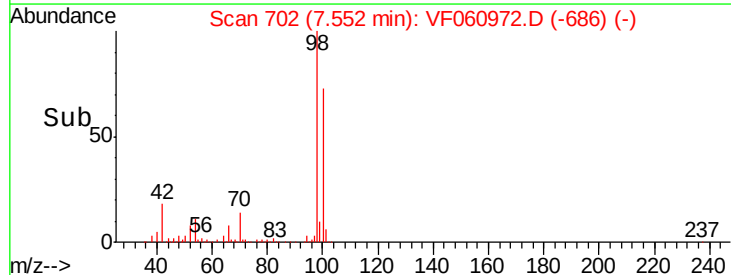
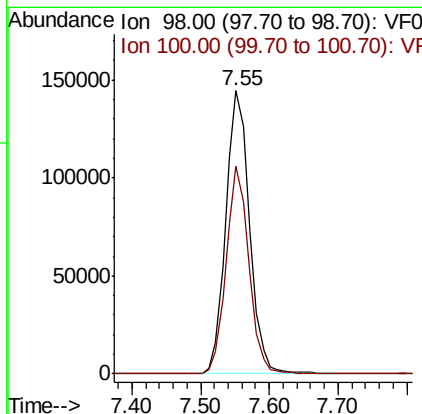
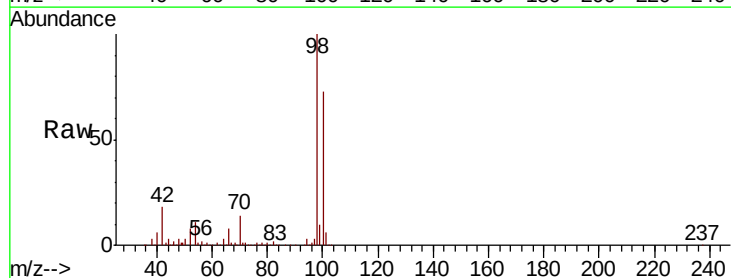
RT: 7.55 min Scan# 702

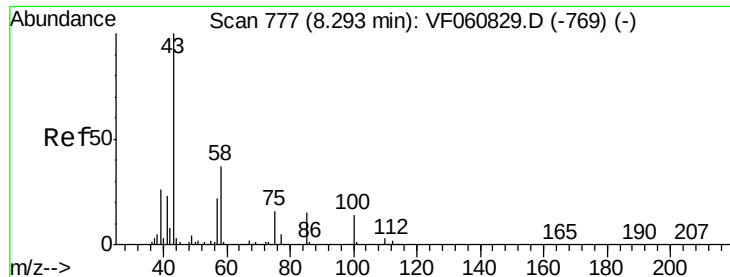
Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	98	Resp:	344797
Ion	Ratio	Lower	Upper
98	100		
100	73.4	59.3	88.9





#51

4-Methyl-2-Pentanone

Concen: 227.068 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 293615

Ion Ratio Lower Upper

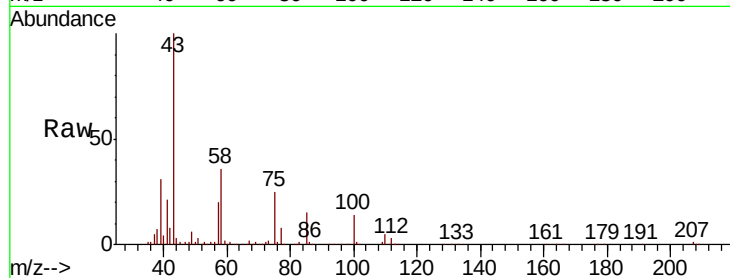
43 100

58 35.9 29.7 44.5

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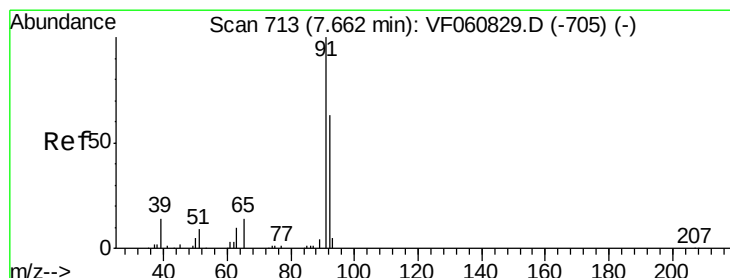
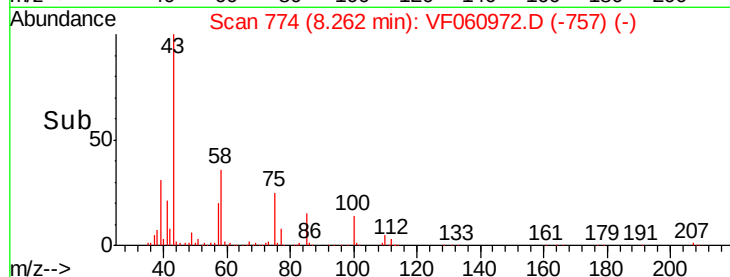
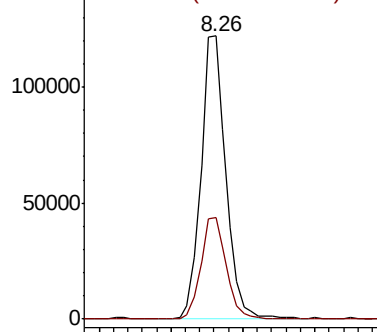
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 42.795 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF060972.D

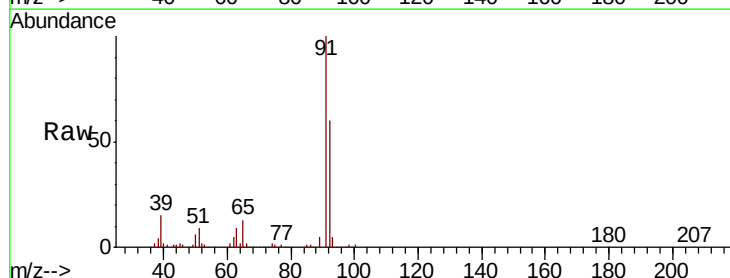
Acq: 11 Dec 2018 12:54

Tgt Ion: 92 Resp: 229147

Ion Ratio Lower Upper

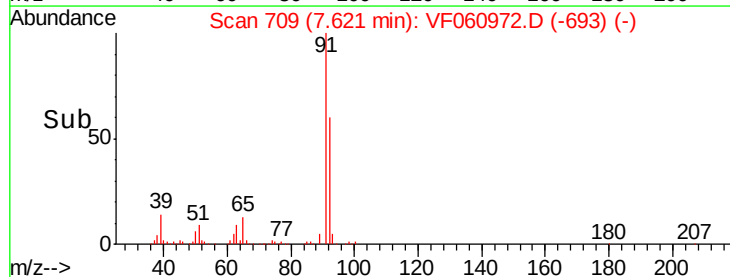
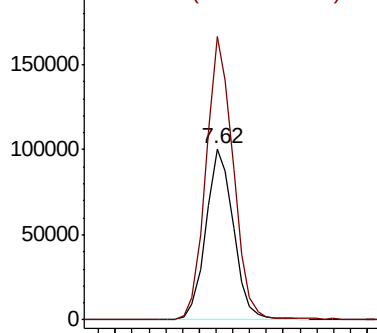
92 100

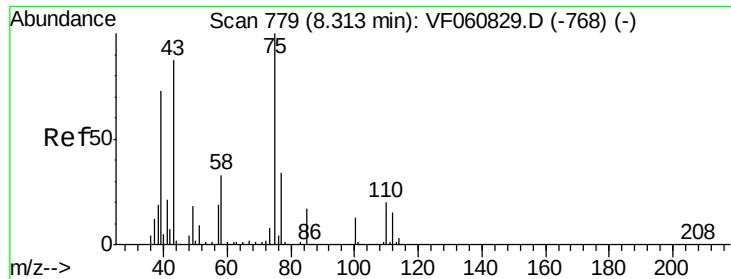
91 165.5 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 46.215 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 134093

Ion Ratio Lower Upper

75 100

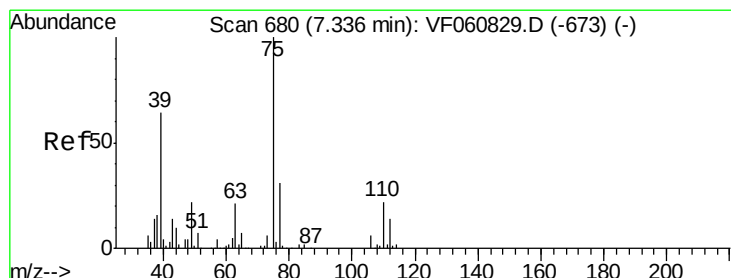
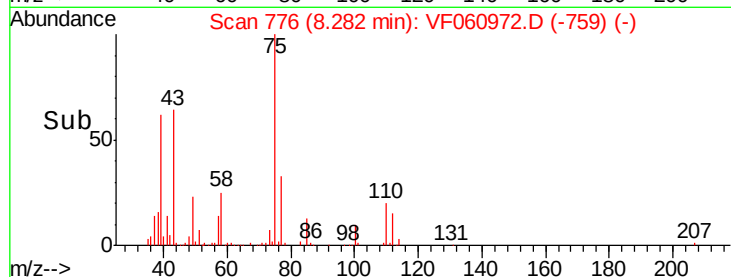
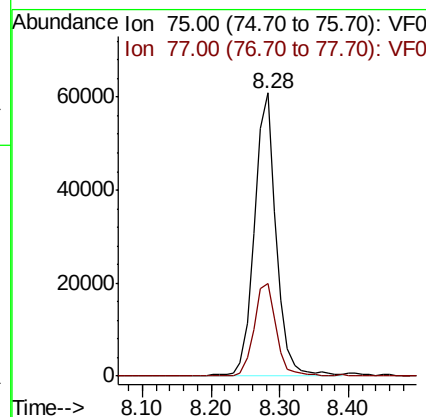
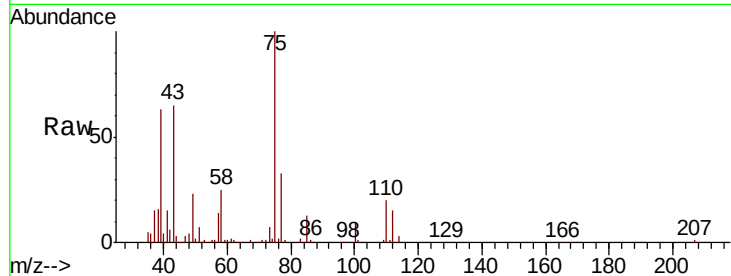
77 32.6 27.4 41.2

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 48.822 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

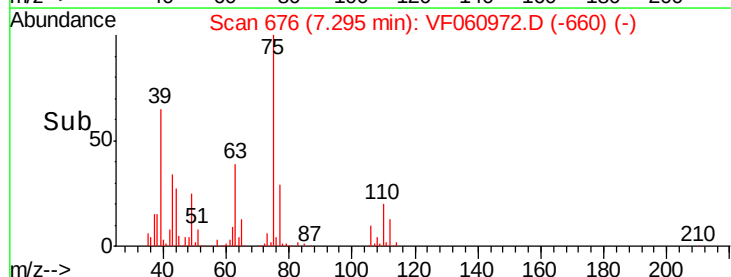
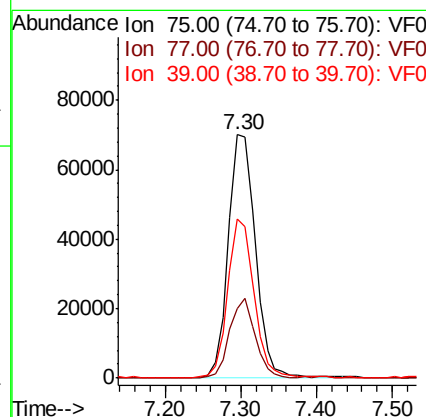
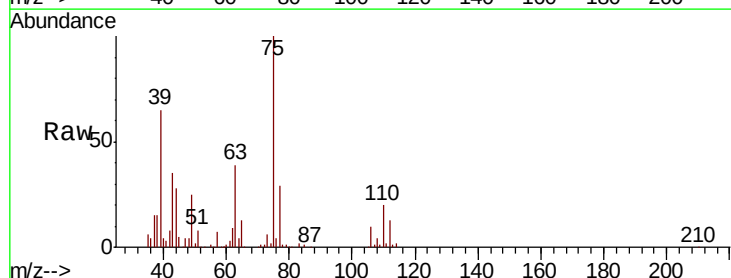
Tgt Ion: 75 Resp: 175369

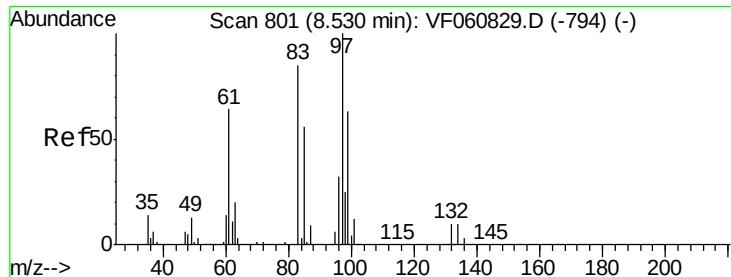
Ion Ratio Lower Upper

75 100

77 28.8 25.0 37.6

39 65.5 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 47.702 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

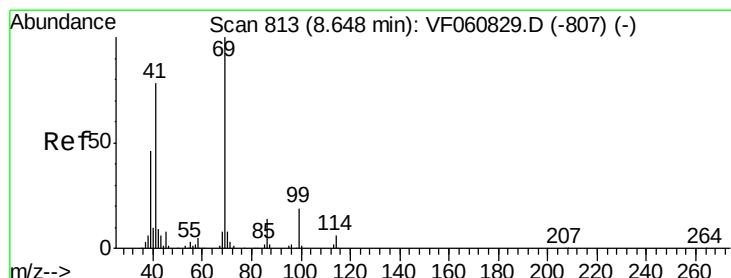
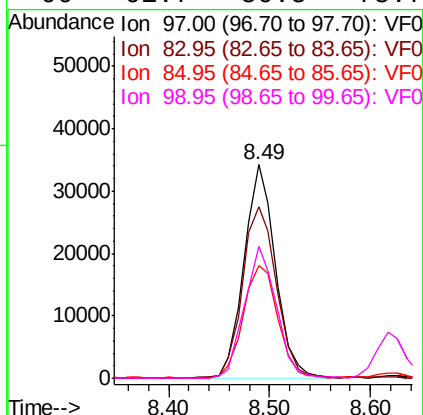
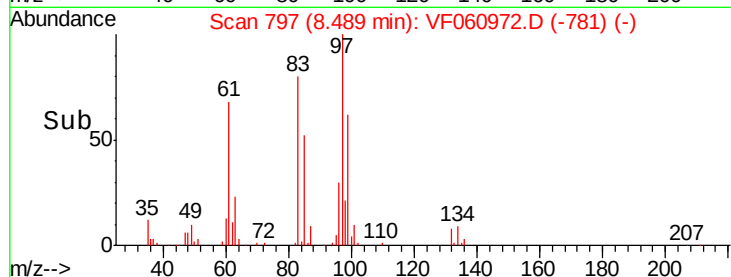
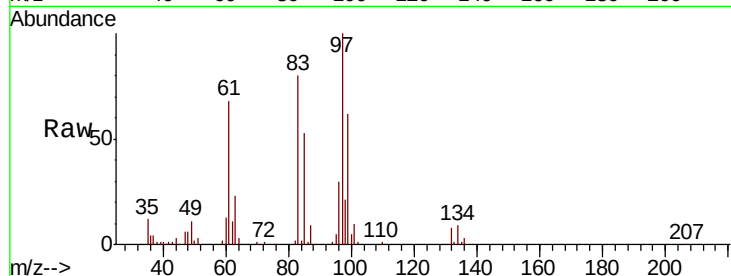
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	74427
Ion	Ratio	Lower	Upper
97	100		
83	80.1	67.8	101.6
85	52.8	45.0	67.6
99	61.7	50.5	75.7

Manual Integrations
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#56

Ethyl methacrylate

Concen: 46.268 ug/l

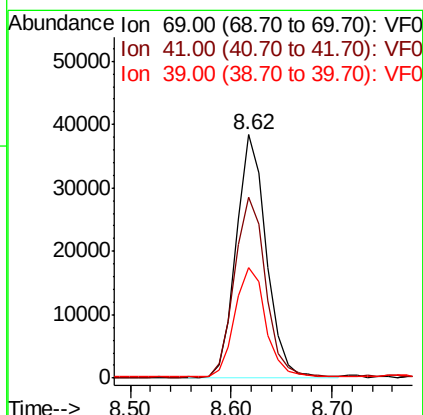
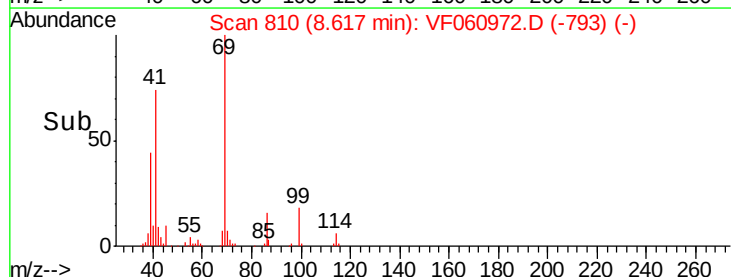
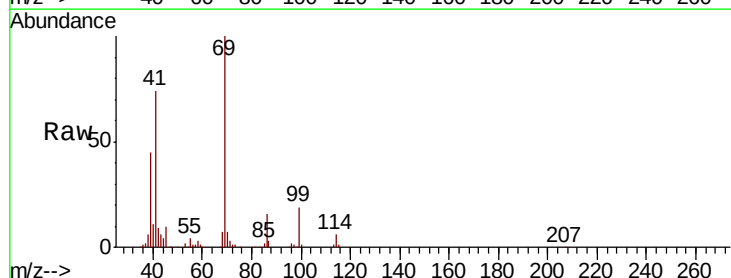
RT: 8.62 min Scan# 810

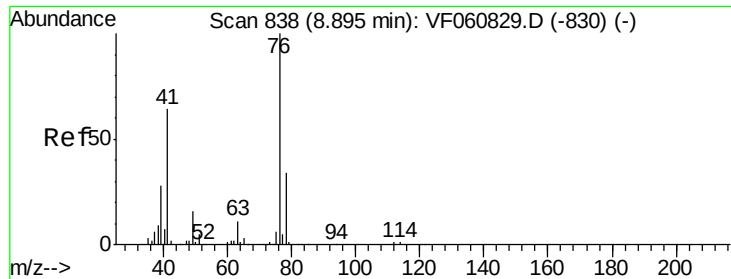
Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	69	Resp:	80193
Ion	Ratio	Lower	Upper
69	100		
41	74.3	62.6	94.0
39	45.2	37.8	56.6





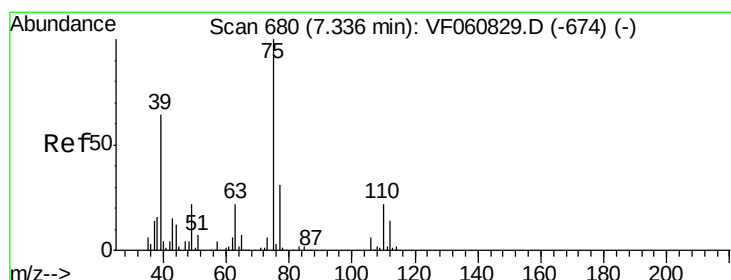
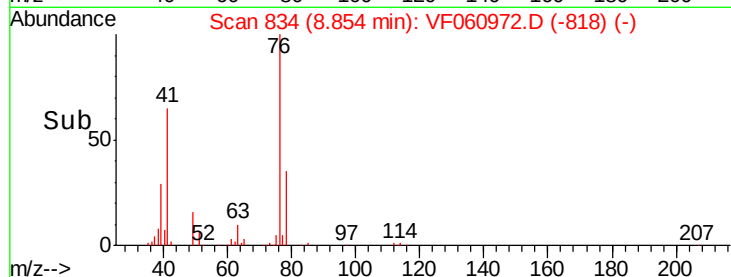
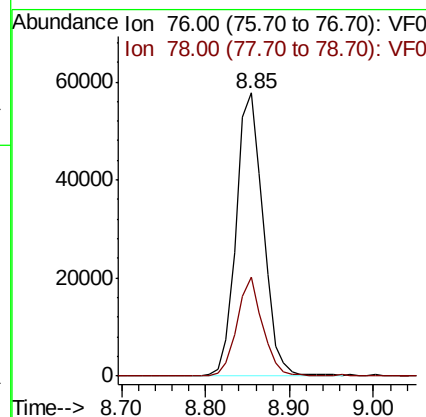
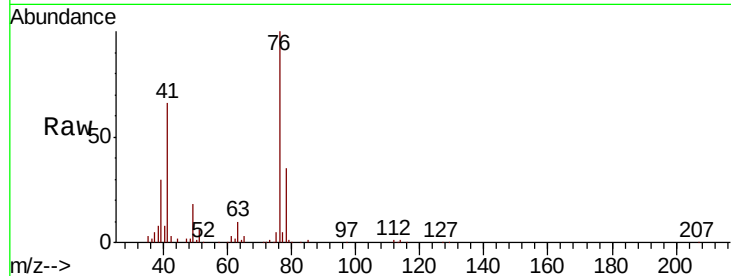
#57
 1,3-Dichloropropane
 Concen: 47.347 ug/l
 RT: 8.85 min Scan# 834
 Delta R.T. -0.04 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 129244
 Ion Ratio Lower Upper
 76 100
 78 34.8 27.0 40.4

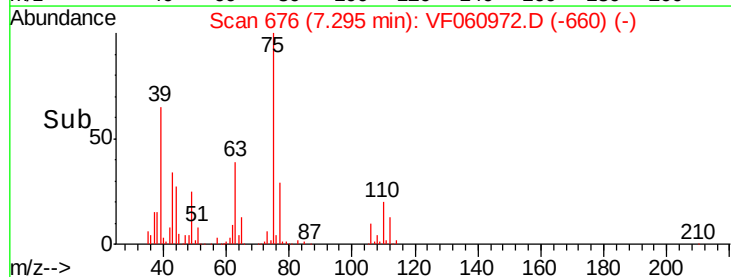
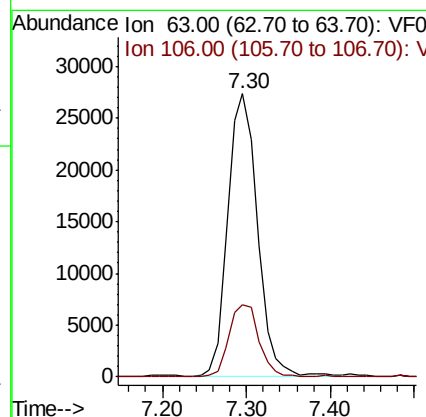
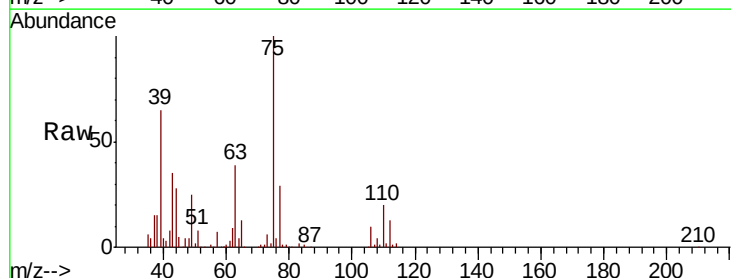
Manual Integrations
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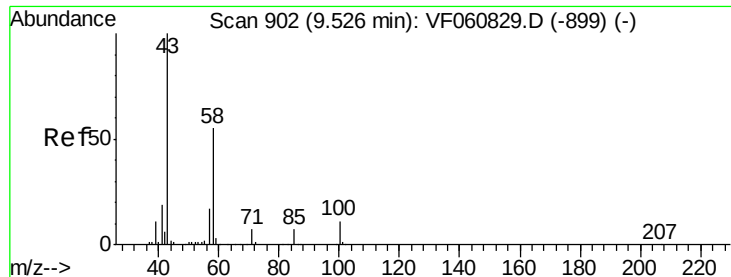
MMDadoda
 12/12/2018 1:28:32 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 380.728 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. -0.04 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion: 63 Resp: 67497
 Ion Ratio Lower Upper
 63 100
 106 25.7 23.0 34.6





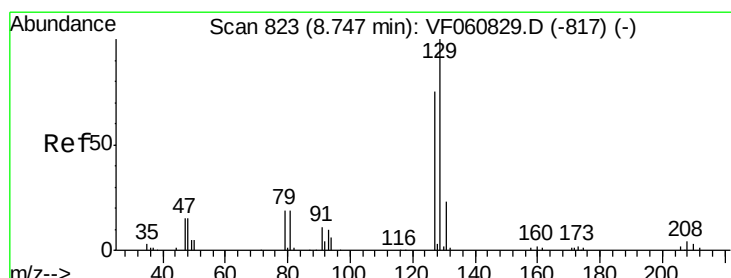
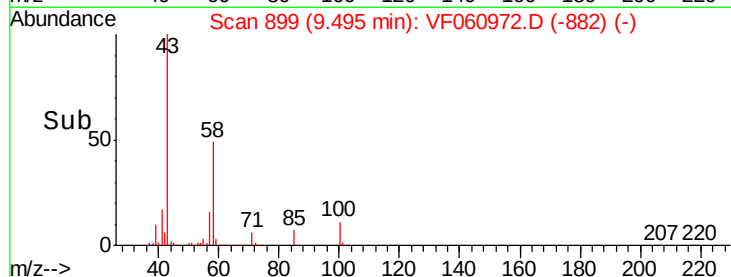
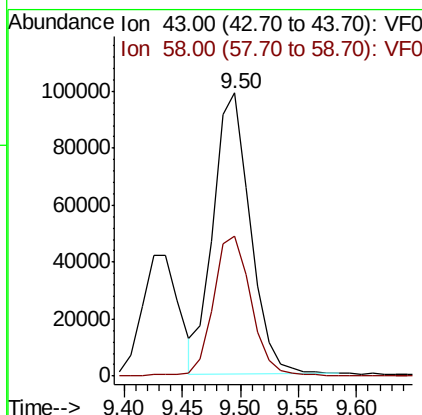
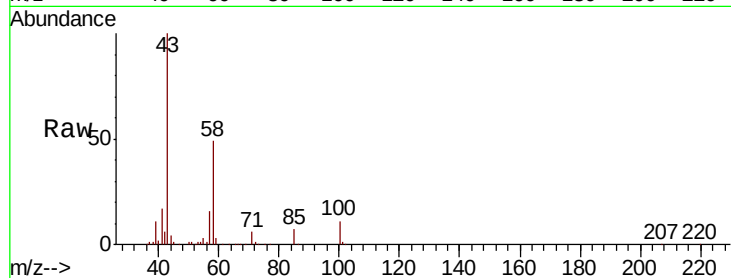
#59
2-Hexanone
Concen: 240.650 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.3	25.6	76.6

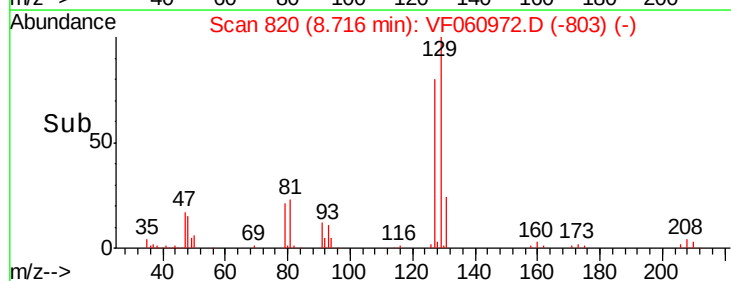
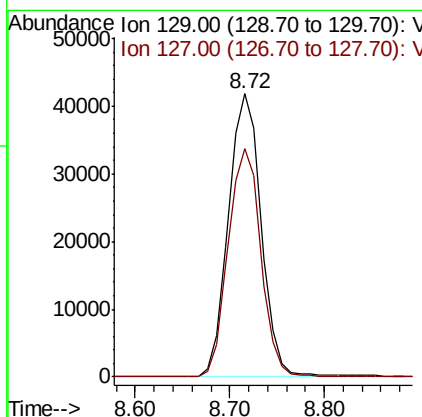
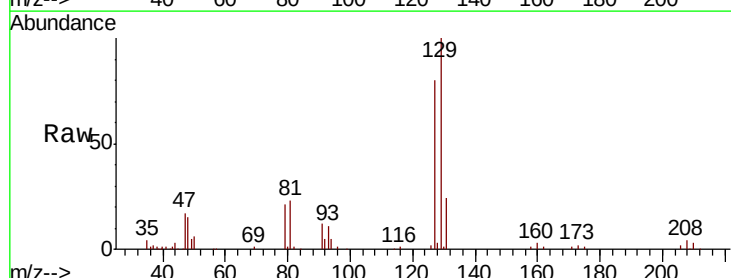
Manual Integrations
APPROVED

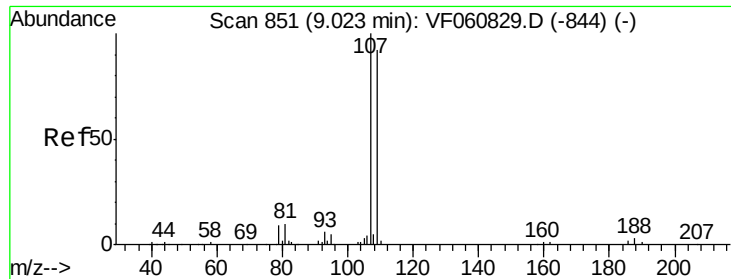
MMDadoda
12/12/2018 1:28:32 PM



#60
Dibromochloromethane
Concen: 43.145 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.5	37.3	111.9





#61

1,2-Dibromoethane

Concen: 45.957 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 77460

Ion Ratio Lower Upper

107 100

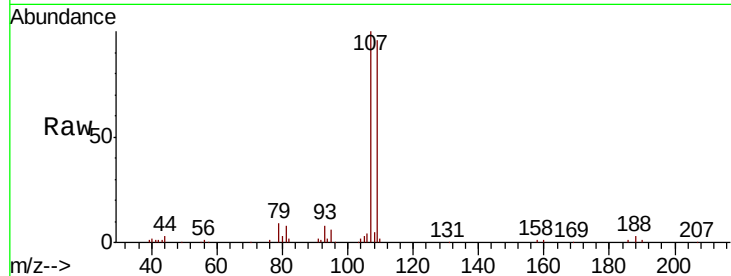
109 96.4 73.6 110.4

Manual Integrations

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.98

40000

30000

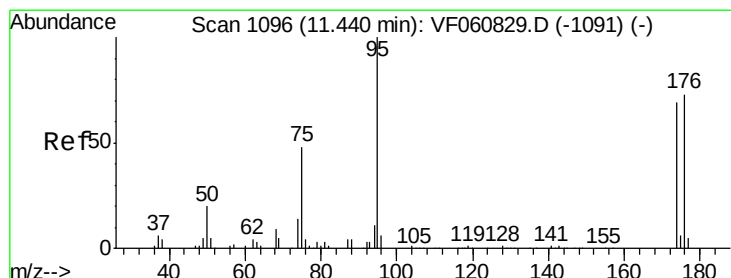
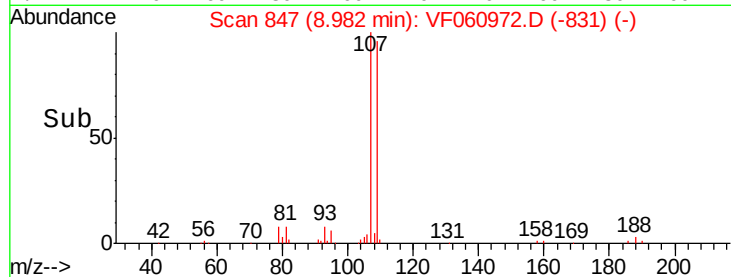
20000

10000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 47.632 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

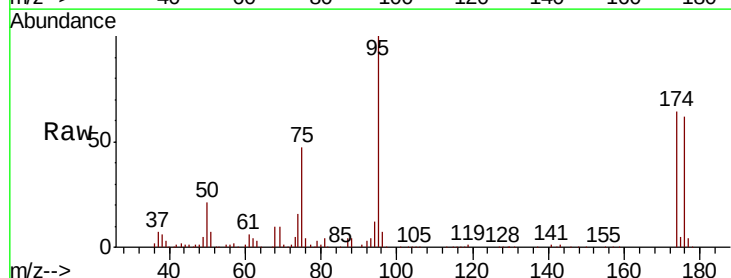
Tgt Ion: 95 Resp: 157381

Ion Ratio Lower Upper

95 100

174 64.3 0.0 138.2

176 61.9 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.41

120000

100000

80000

60000

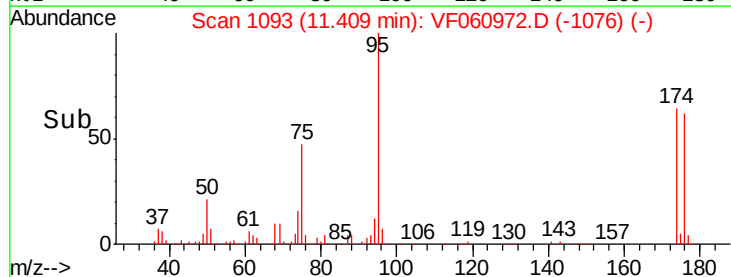
40000

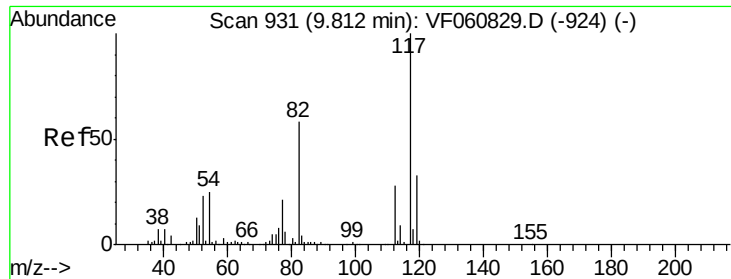
20000

0

Time-->

11.30 11.40 11.50





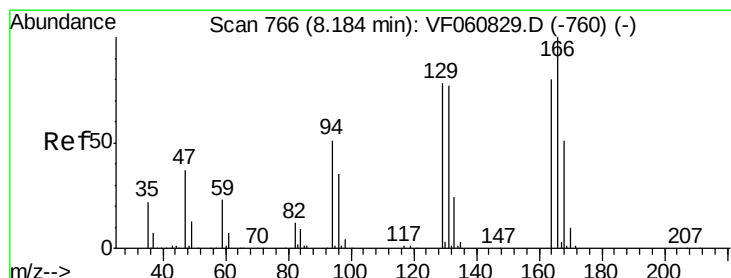
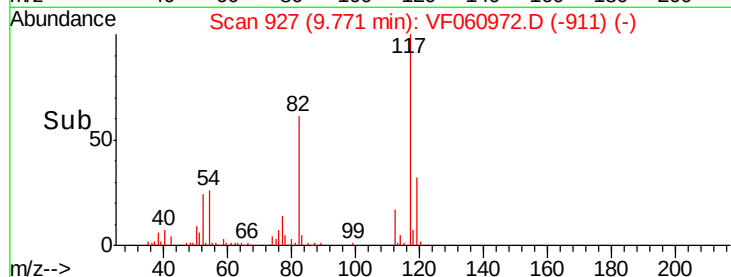
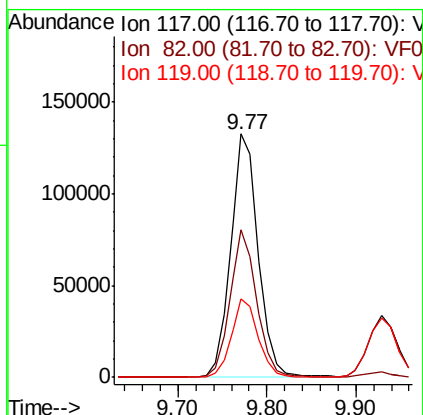
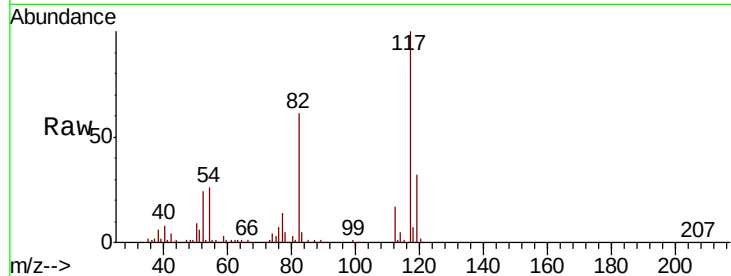
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	287136		
82	60.7	46.6	69.8	
119	32.4	26.4	39.6	

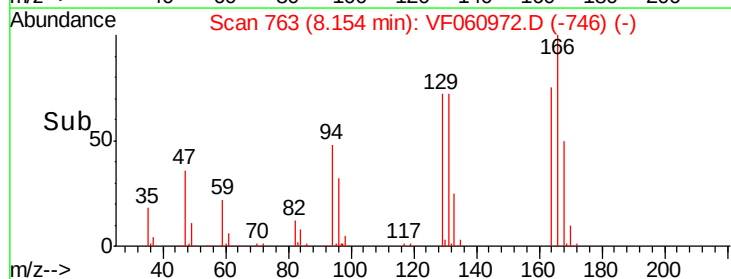
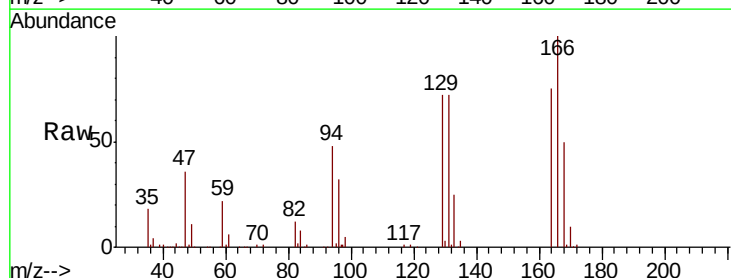
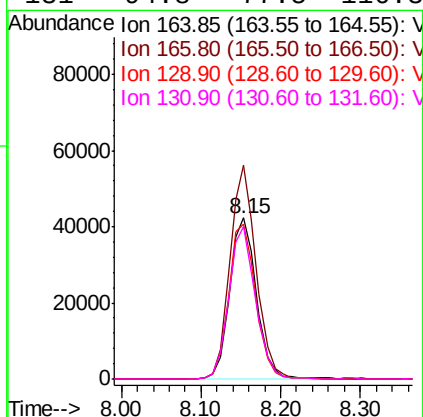
Manual Integrations
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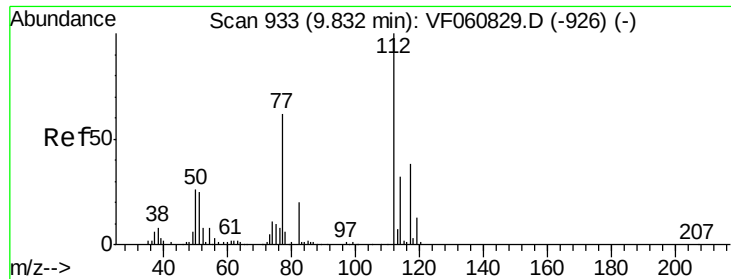
MMDadoda
12/12/2018 1:28:32 PM



#64
Tetrachloroethene
Concen: 45.261 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	99264		
166	132.5	100.3	150.5	
129	95.9	77.9	116.9	
131	94.8	77.5	116.3	





#65

Chlorobenzene

Concen: 47.364 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 264570

Ion Ratio Lower Upper

112 100

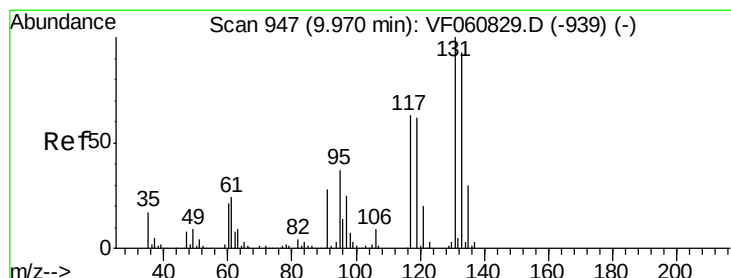
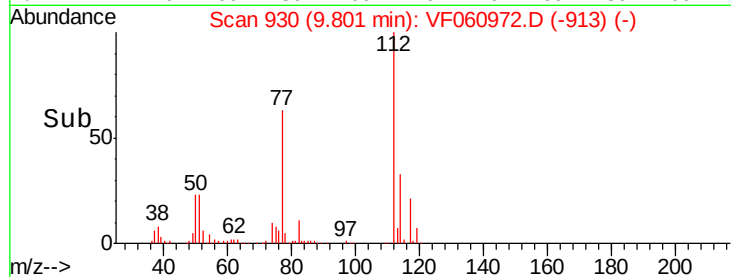
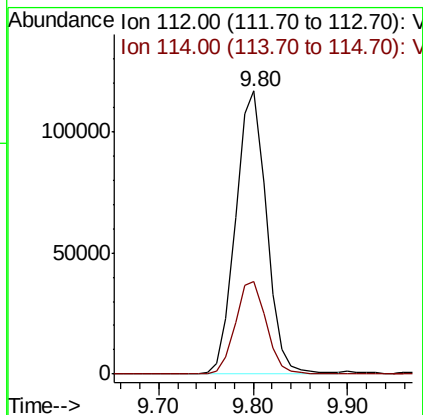
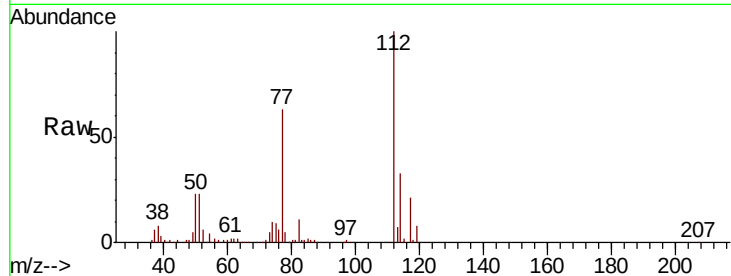
114 32.6 26.0 39.0

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 45.218 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.04 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

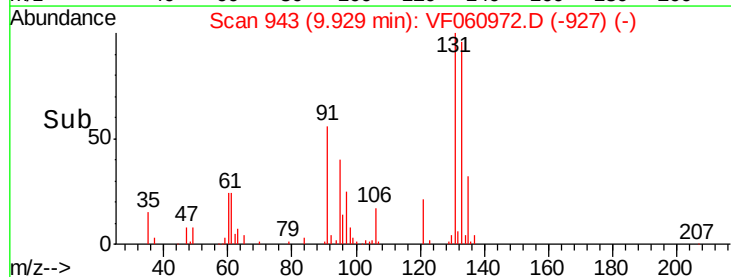
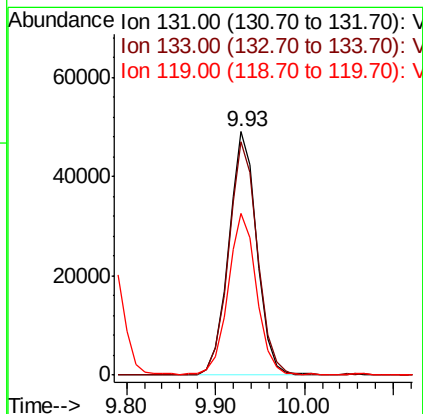
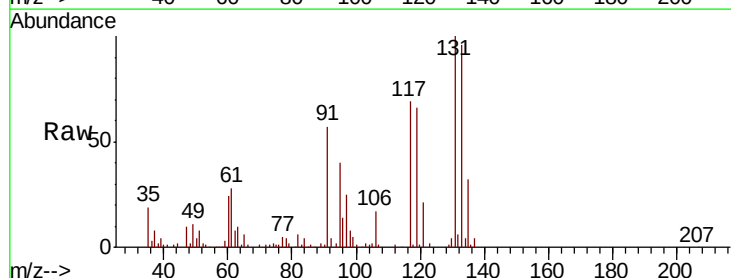
Tgt Ion:131 Resp: 108585

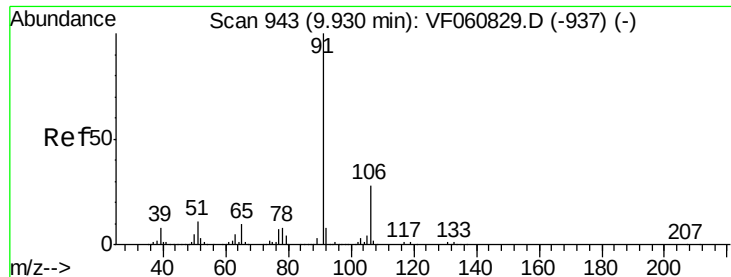
Ion Ratio Lower Upper

131 100

133 96.0 46.5 139.3

119 66.5 31.1 93.3





#67

Ethyl Benzene

Concen: 46.519 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 483758

Ion Ratio Lower Upper

91 100

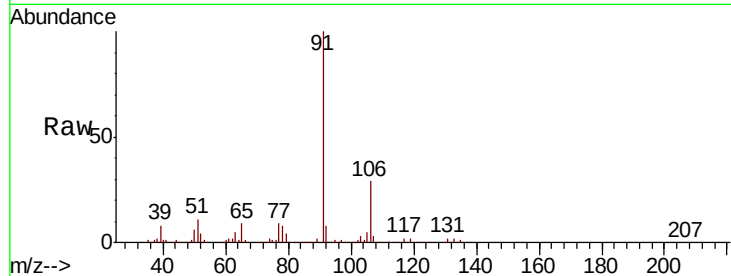
106 28.5 22.2 33.2

Manual Integrations

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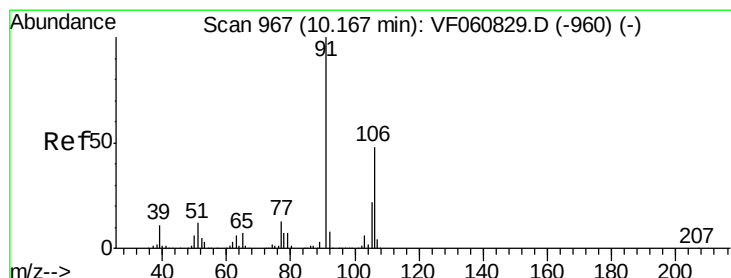
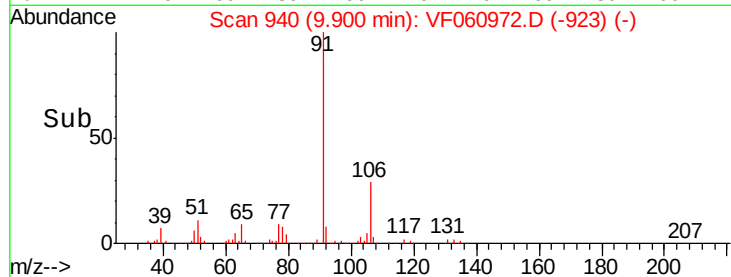
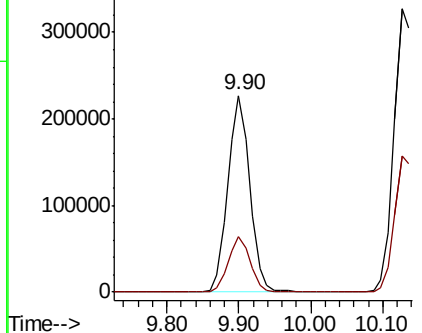
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 90.143 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.04 min

Lab File: VF060972.D

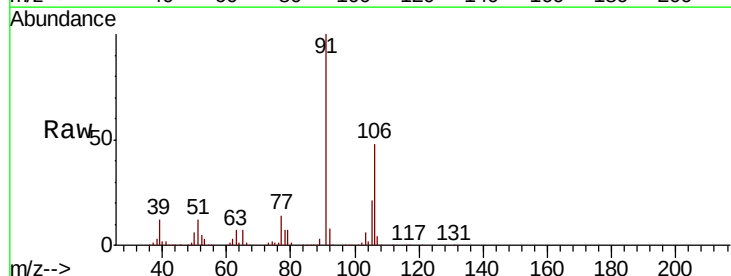
Acq: 11 Dec 2018 12:54

Tgt Ion: 106 Resp: 337153

Ion Ratio Lower Upper

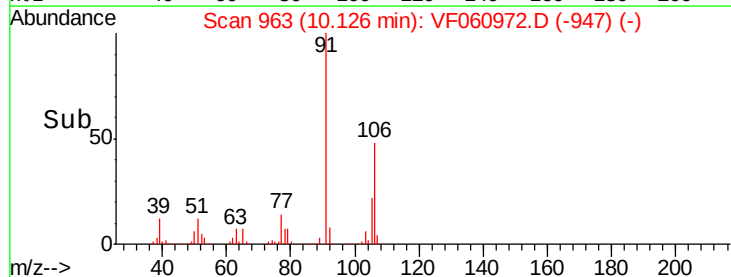
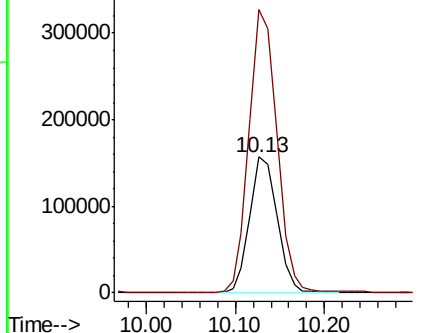
106 100

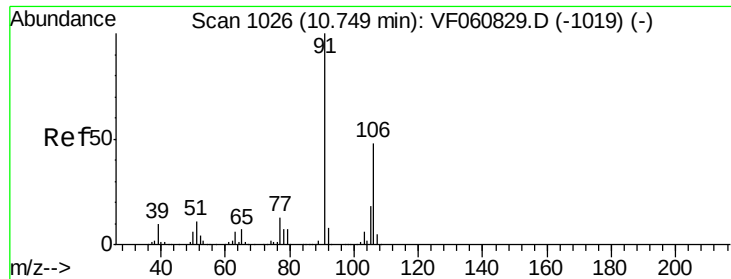
91 208.7 166.7 250.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





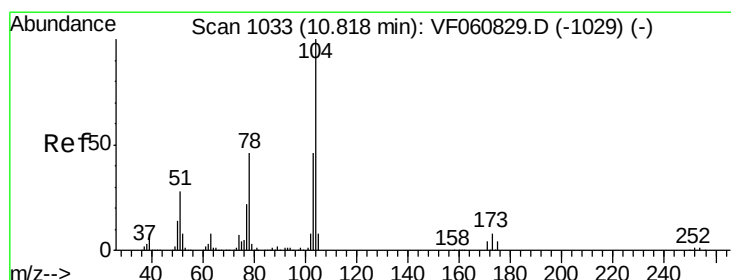
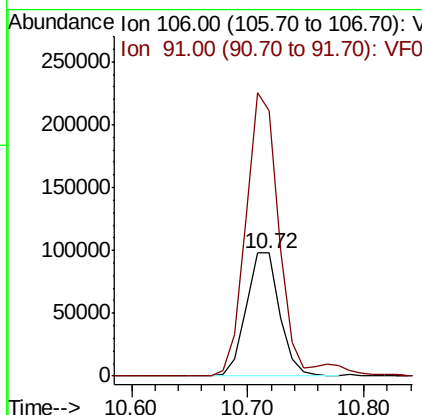
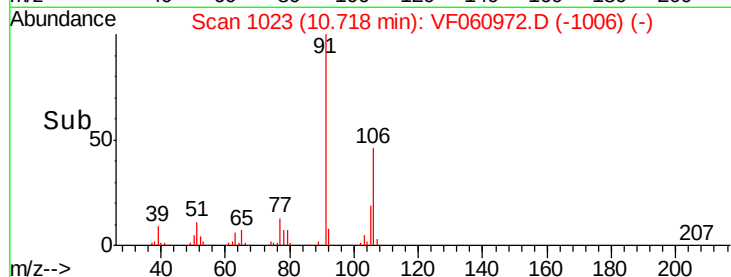
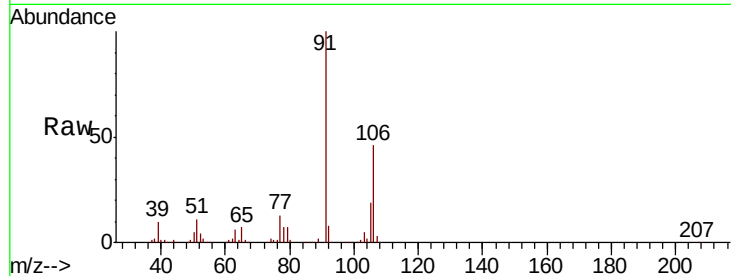
#69
o-Xylene
Concen: 47.509 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 195946
Ion Ratio Lower Upper
106 100
91 215.3 104.8 314.6

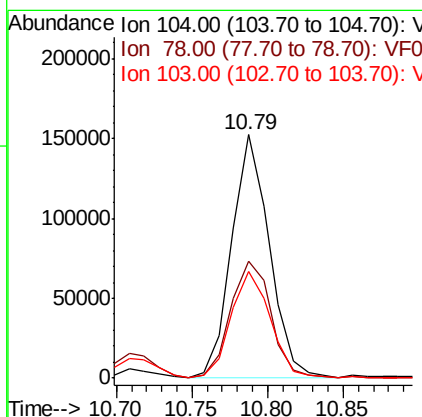
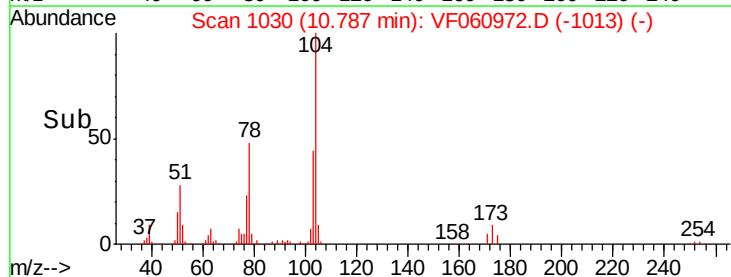
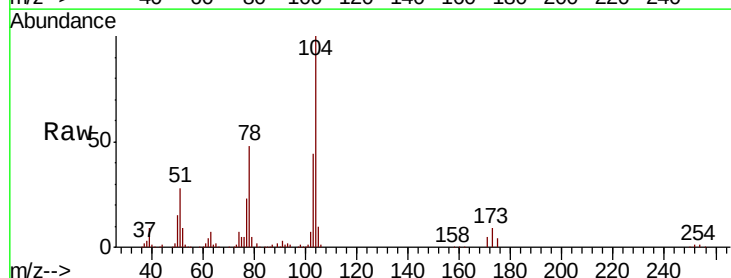
Manual Integrations
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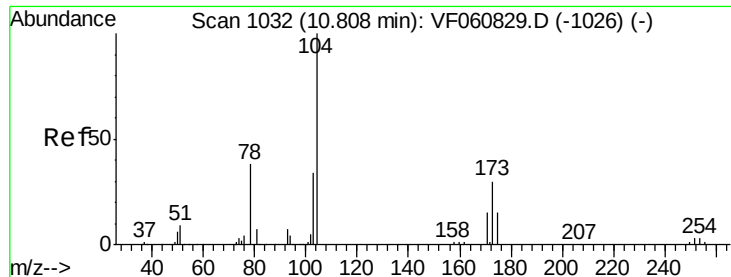
MMDadoda
12/12/2018 1:28:32 PM



#70
Styrene
Concen: 46.080 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion:104 Resp: 263452
Ion Ratio Lower Upper
104 100
78 47.8 37.3 55.9
103 43.9 36.8 55.2





#71

Bromoform

Concen: 44.463 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

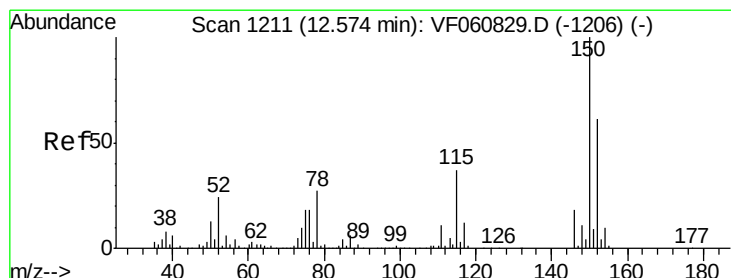
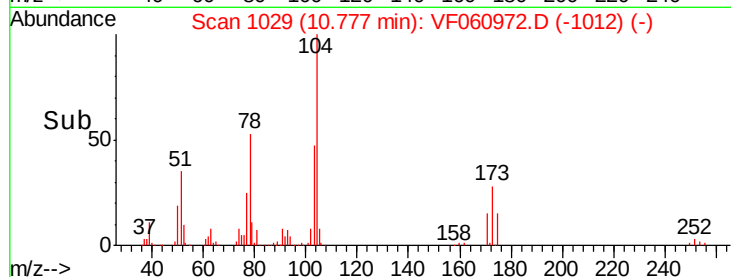
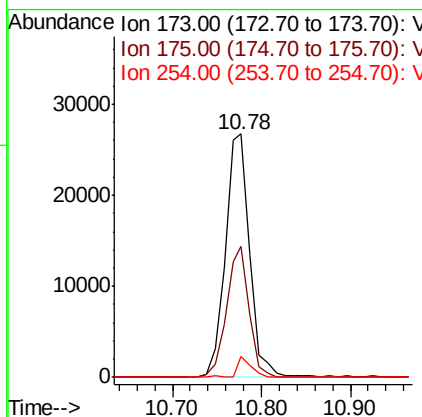
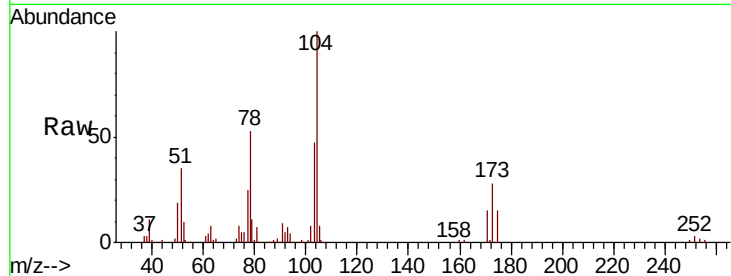
ClientSampleId :

VSTDCCC050

Tot Ion:	173	Resp:	51574
Ion Ratio	Lower	Upper	
173	100		
175	53.8	25.5	76.5
254	8.4	7.5	11.3

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

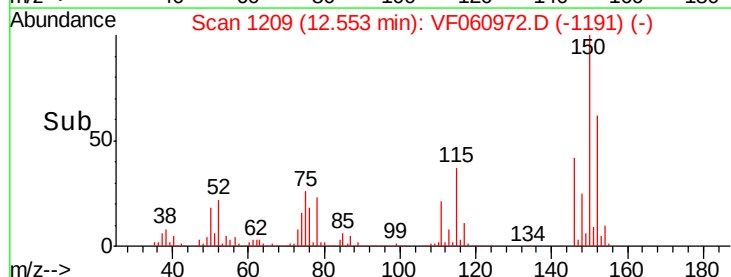
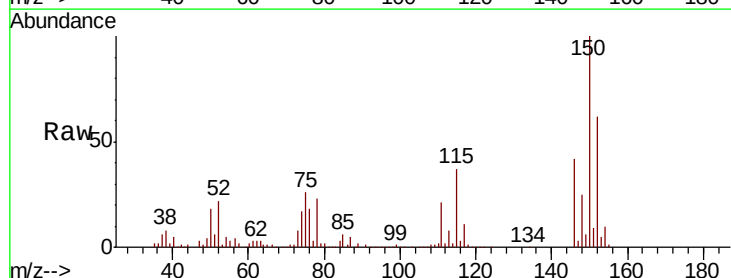
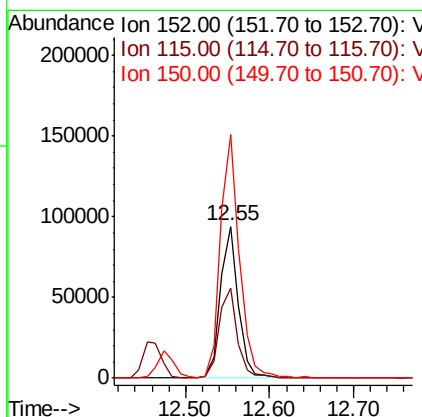
RT: 12.55 min Scan# 1209

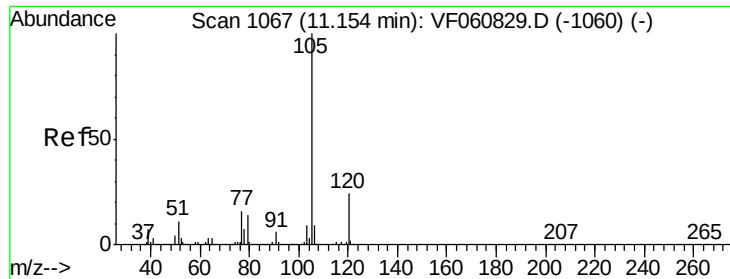
Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	152	Resp:	139737
Ion Ratio	Lower	Upper	
152	100		
115	58.9	30.1	90.5
150	160.2	0.0	327.6





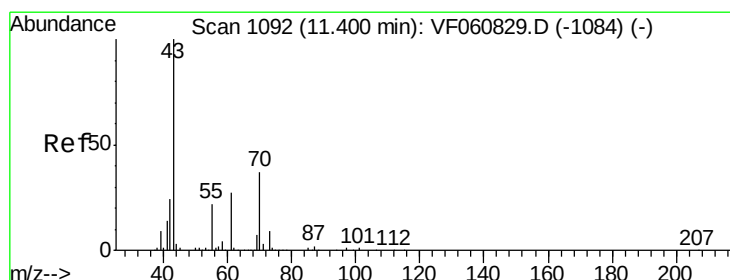
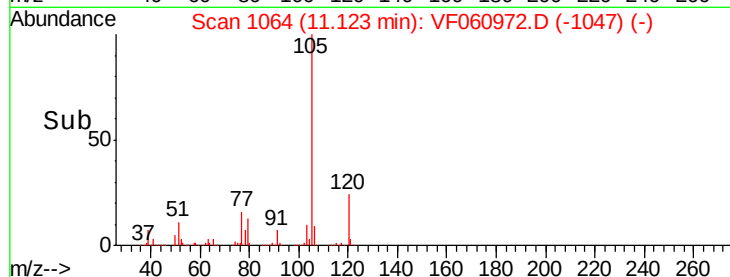
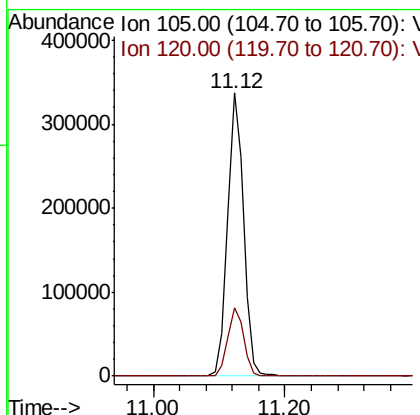
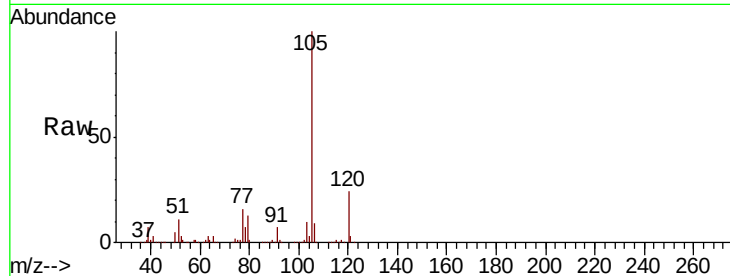
#73
Isopropylbenzene
Concen: 52.604 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
120	24.1	12.2	36.4

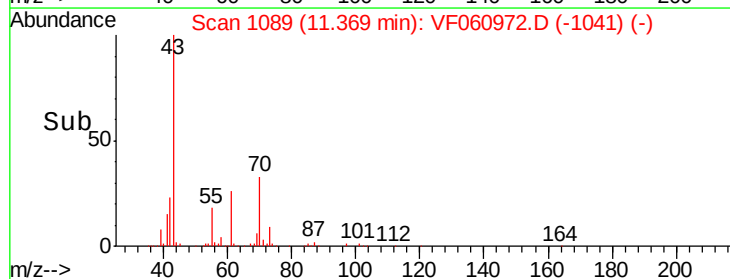
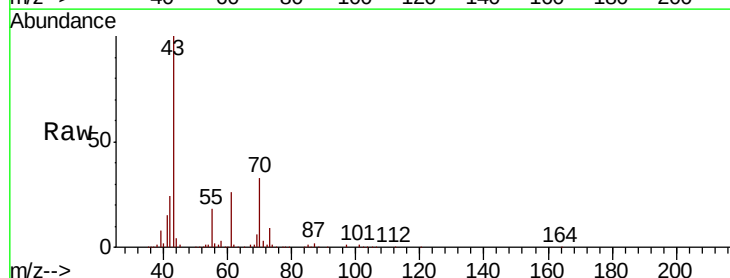
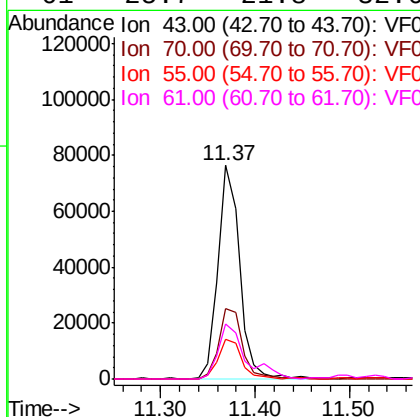
Manual Integrations
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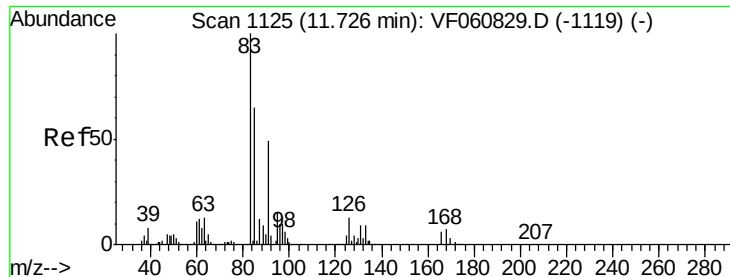
MMDadoda
12/12/2018 1:28:32 PM



#74
N-ethyl acetate
Concen: 47.967 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Lower	Upper
43	100		
70	33.0	29.6	44.4
55	18.3	17.2	25.8
61	25.7	21.8	32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 51.342 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

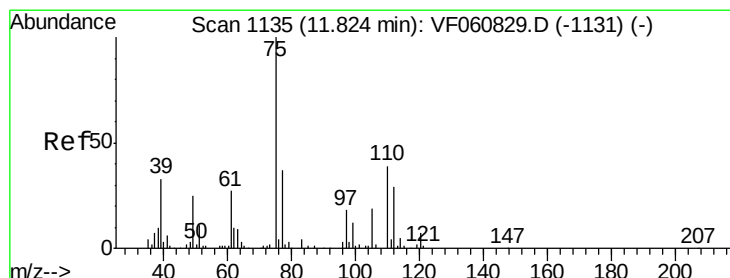
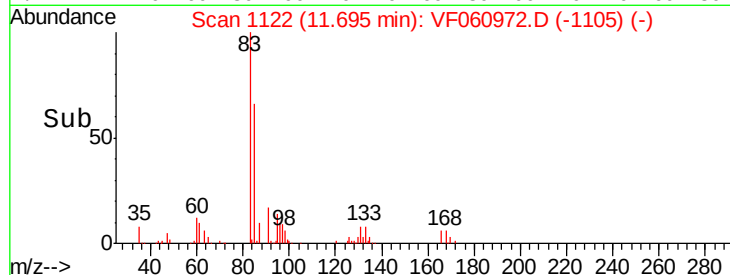
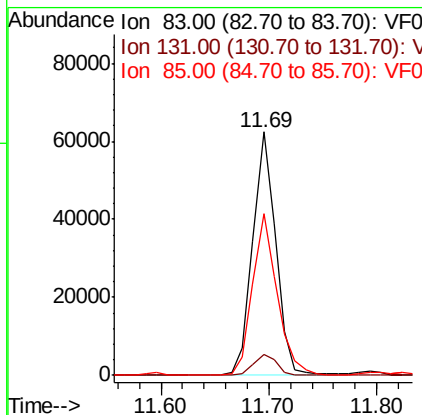
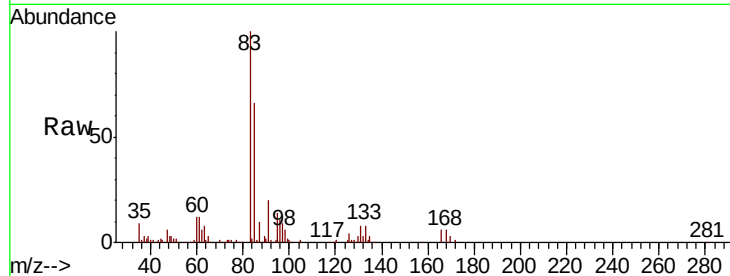
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	93309
Ion Ratio	Lower	Upper	
83	100		
131	8.4	4.7	14.1
85	66.2	32.6	97.8

Manual Integrations
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12/12/2018 1:28:32 PM



#76

1,2,3-Trichloropropane

Concen: 49.549 ug/l

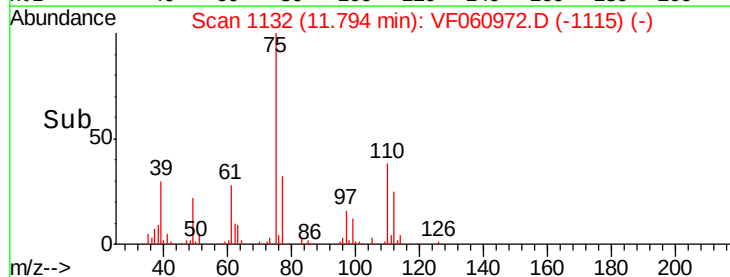
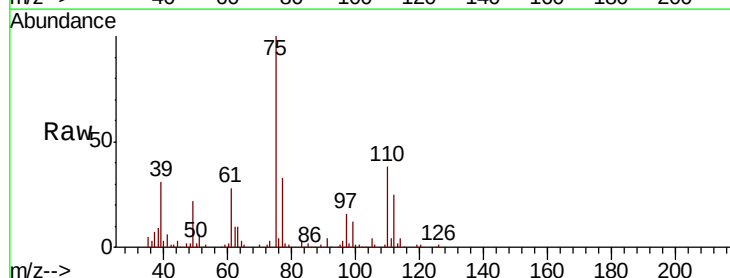
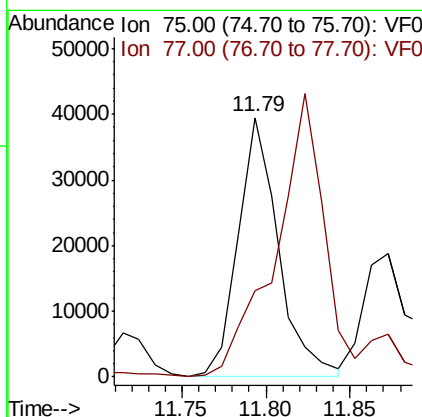
RT: 11.79 min Scan# 1132

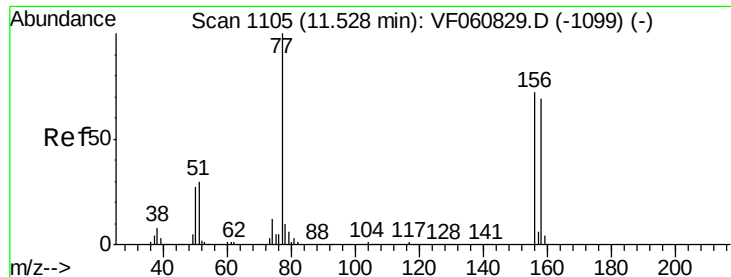
Delta R.T. -0.03 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Tgt Ion:	75	Resp:	65455
Ion Ratio	Lower	Upper	
75	100		
77	33.5	18.4	55.4





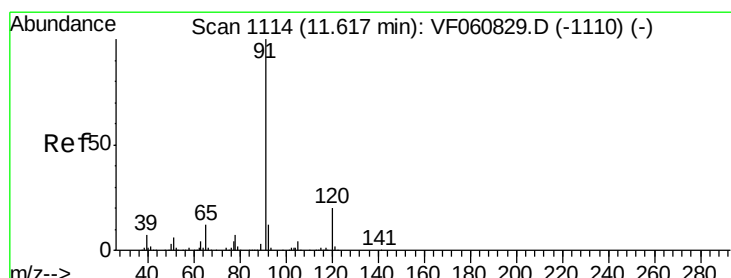
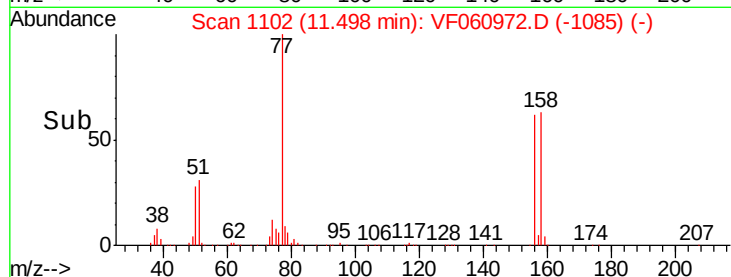
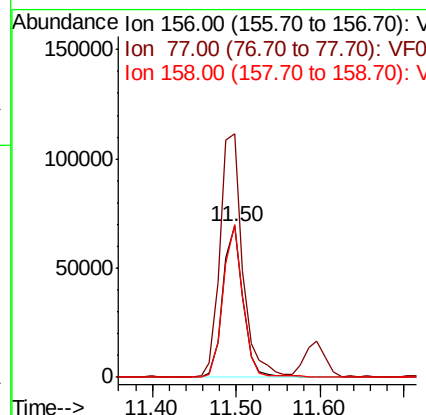
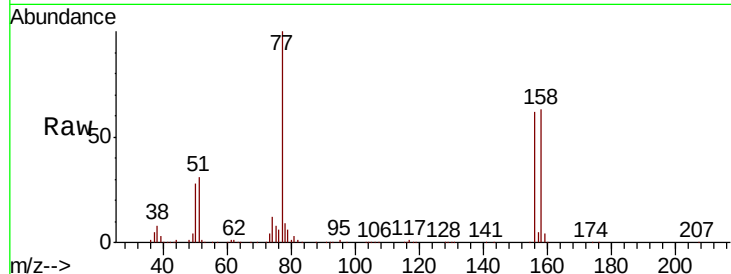
#77
Bromobenzene
Concen: 47.962 ug/l
RT: 11.50 min Scan# 1102
Delta R.T. -0.03 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
156	100	116115		
77	160.9	69.7	209.0	
158	101.1	47.8	143.4	

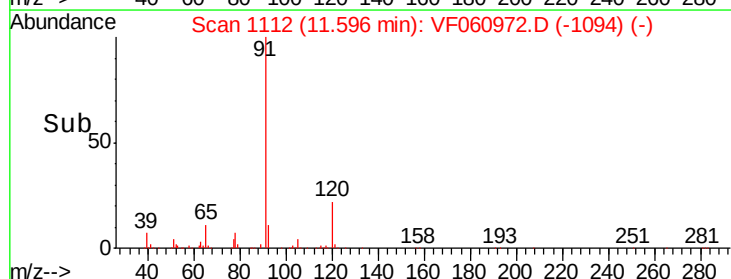
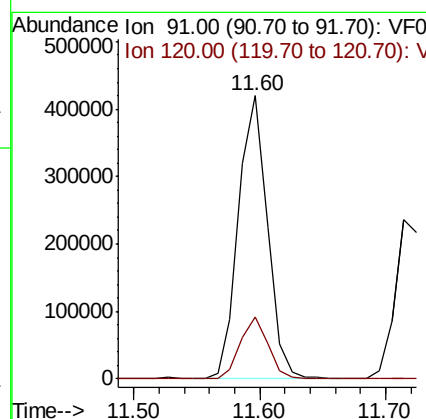
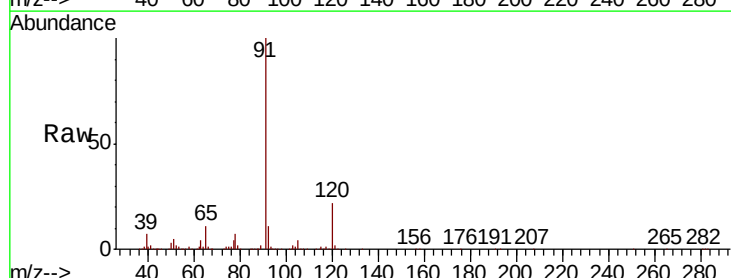
Manual Integrations
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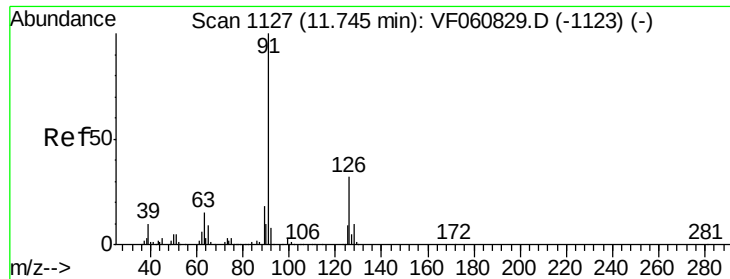
MMDadoda
12/12/2018 1:28:32 PM



#78
n-propylbenzene
Concen: 51.335 ug/l
RT: 11.60 min Scan# 1112
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	663861		
120	21.7	10.3	30.8	





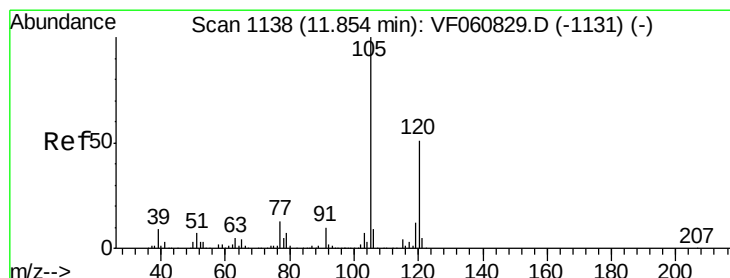
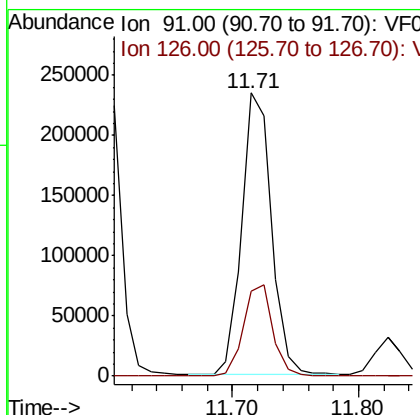
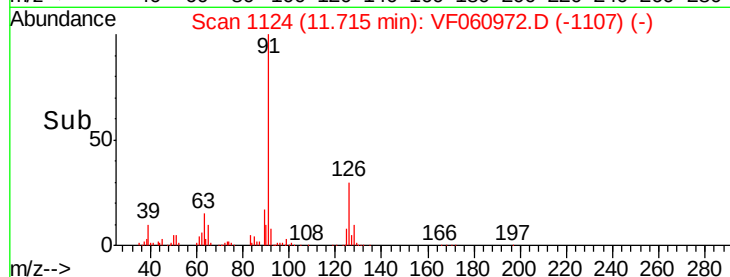
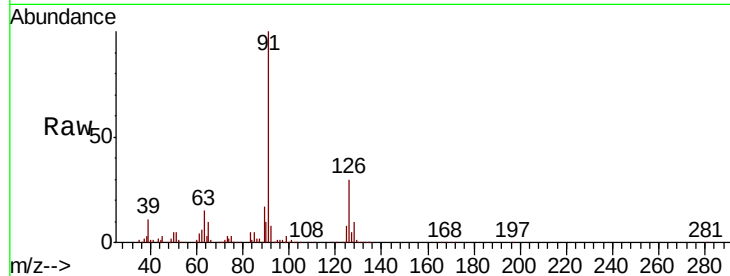
#79
 2-Chlorotoluene
 Concen: 51.455 ug/l
 RT: 11.71 min Scan# 1124
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 381537
 Ion Ratio Lower Upper
 91 100
 126 29.9 15.9 47.6

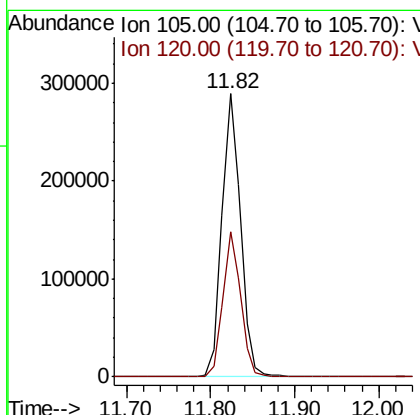
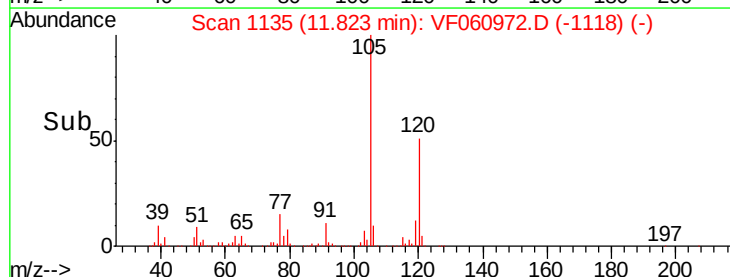
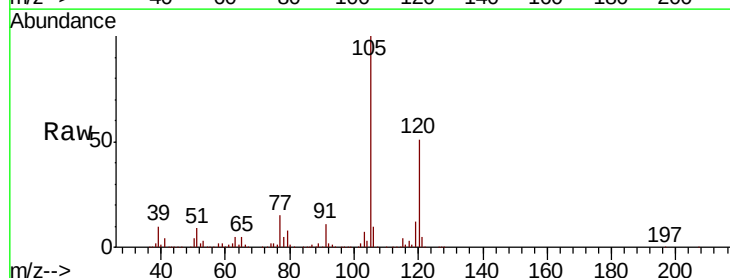
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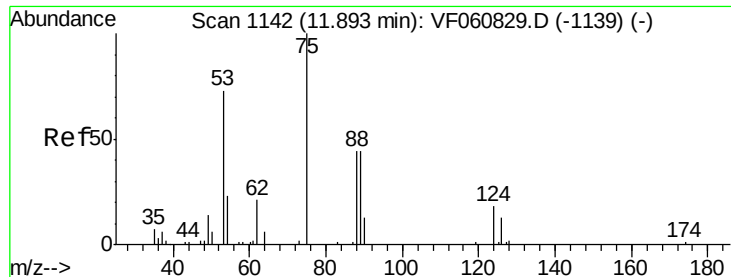
MMDadoda
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#80
 1,3,5-Trimethylbenzene
 Concen: 49.837 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion: 105 Resp: 446774
 Ion Ratio Lower Upper
 105 100
 120 51.2 25.8 77.3





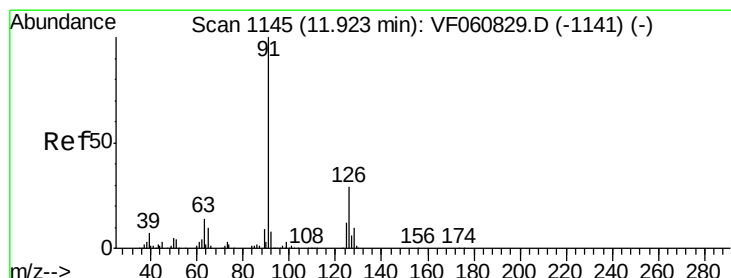
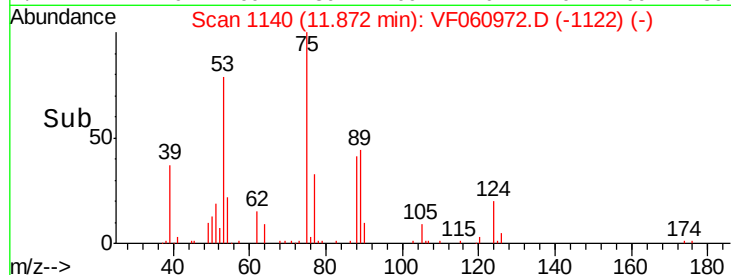
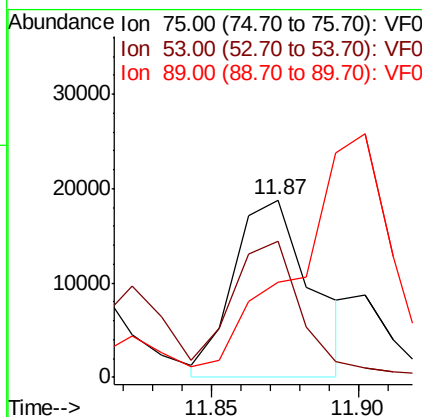
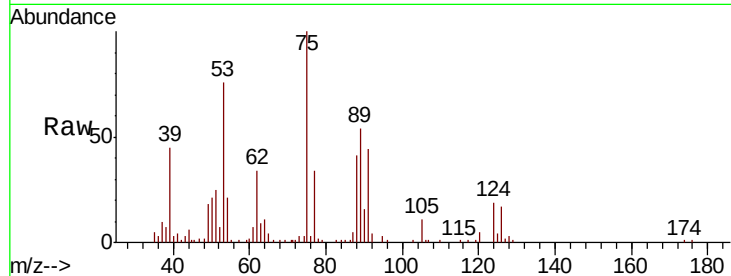
#81
trans-1,4-Dichloro-2-butene
Concen: 53.782 ug/l m
RT: 11.87 min Scan# 1140
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	76.5	65.9	98.9
89	53.6	38.8	58.2

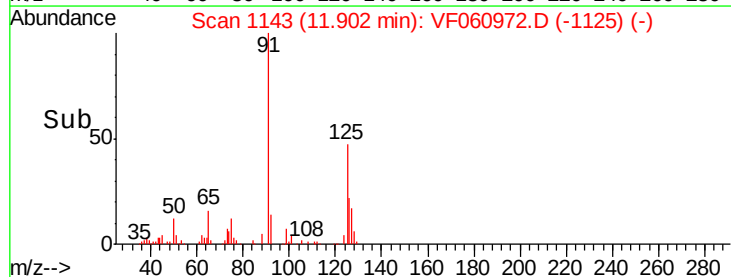
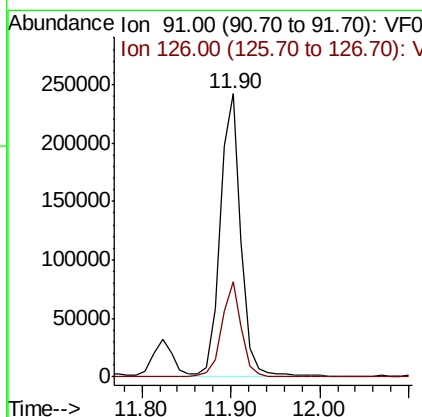
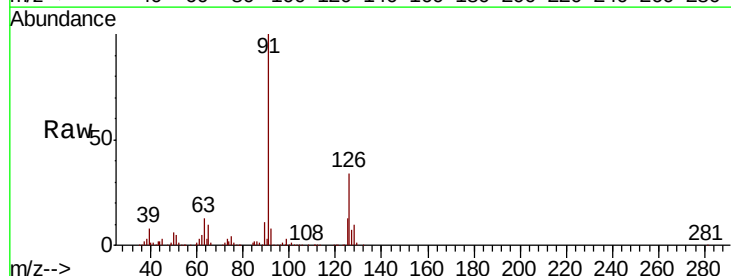
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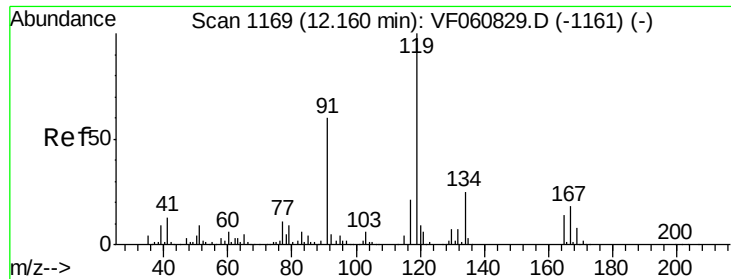
MMDadoda
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#82
4-Chlorotoluene
Concen: 49.994 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.8	14.8	44.4





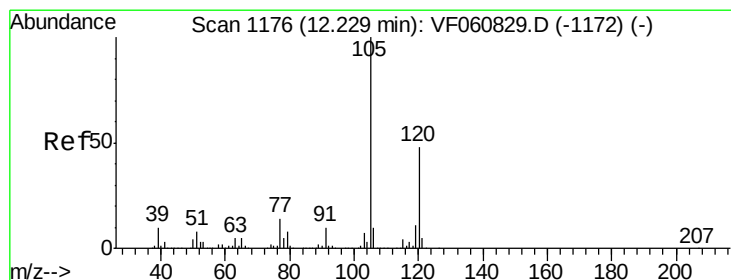
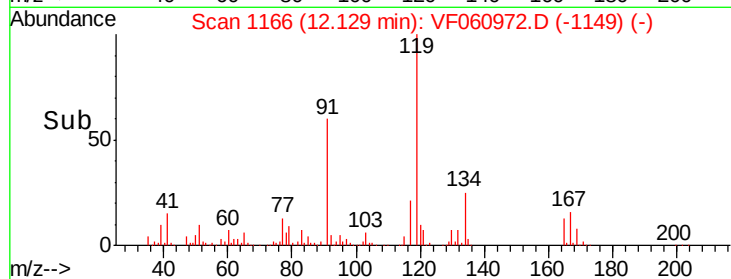
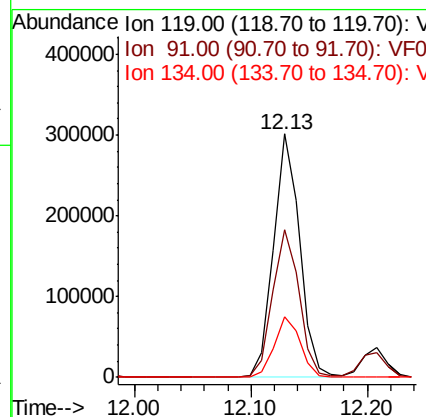
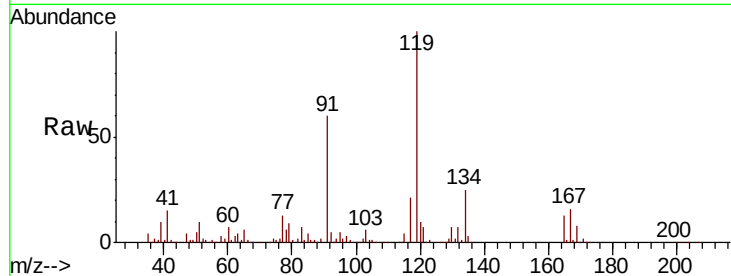
#83
 tert-Butylbenzene
 Concen: 51.295 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	468410		
91	60.4	30.1	90.3	
134	25.0	12.6	37.8	

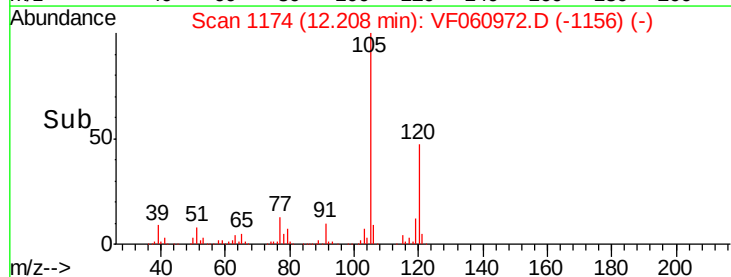
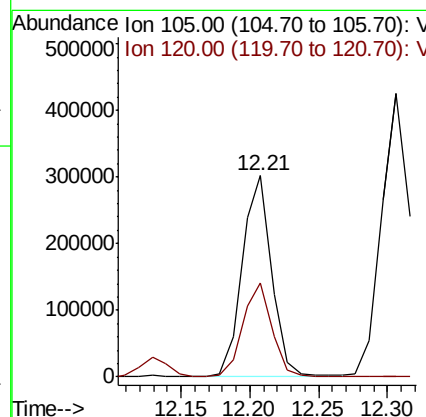
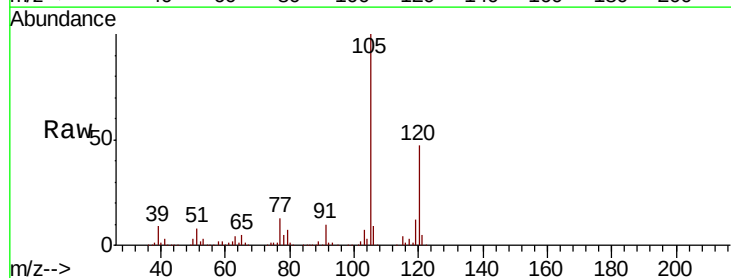
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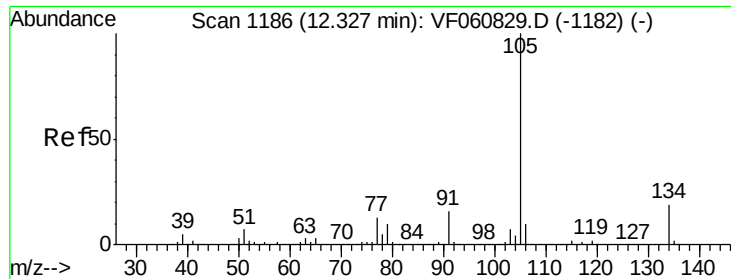
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.354 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	450518		
120	47.0	23.8	71.5	





#85

sec-Butylbenzene

Concen: 49.936 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 624239

Ion Ratio Lower Upper

105 100

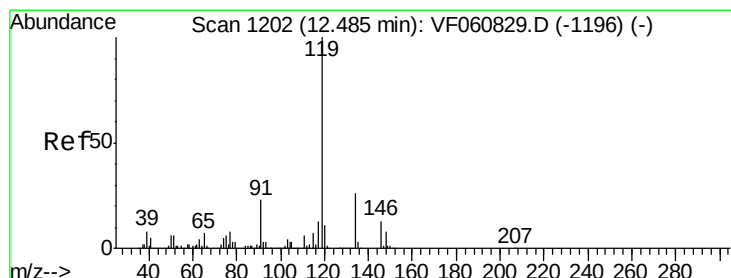
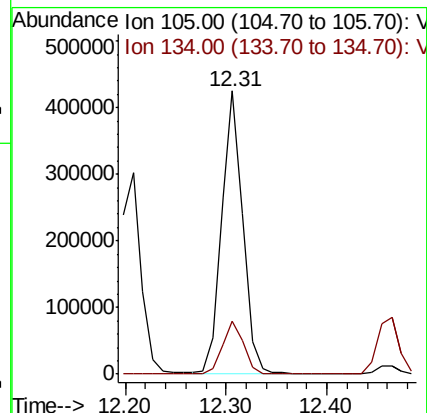
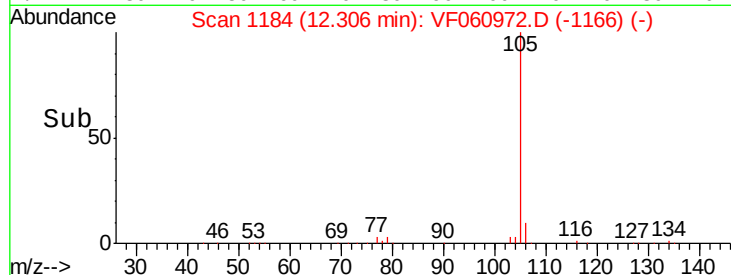
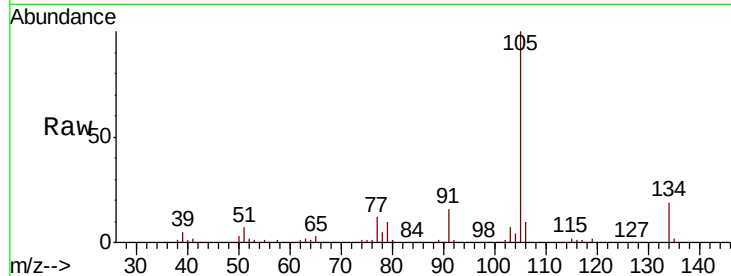
134 18.9 9.5 28.5

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 49.475 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VF060972.D

Acq: 11 Dec 2018 12:54

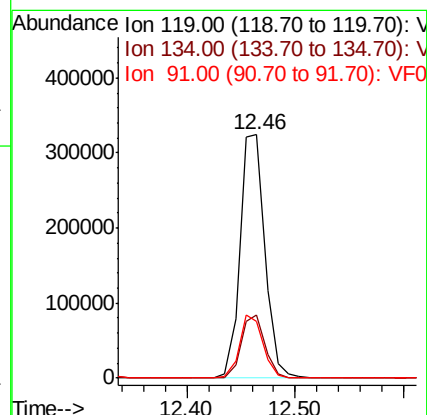
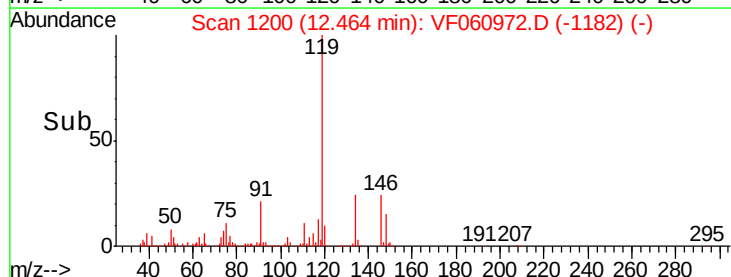
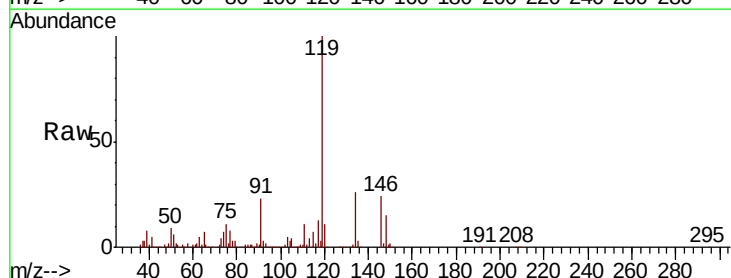
Tgt Ion:119 Resp: 518529

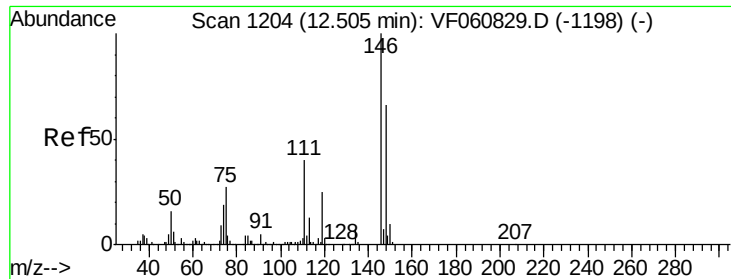
Ion Ratio Lower Upper

119 100

134 26.1 12.9 38.6

91 23.3 11.8 35.3





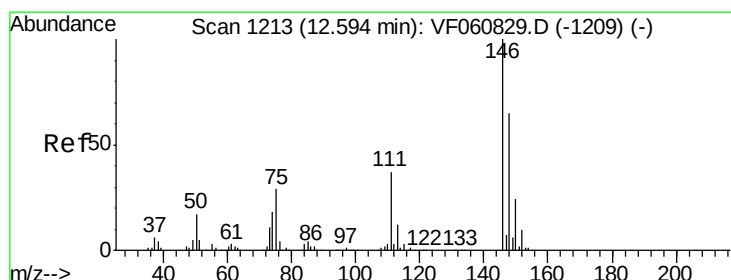
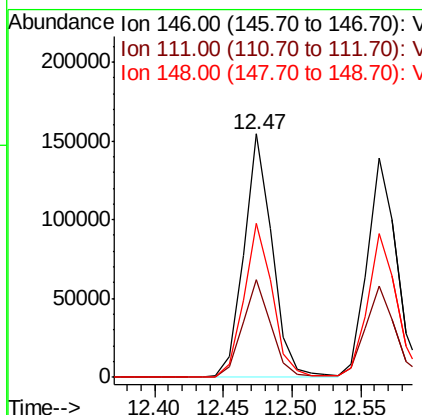
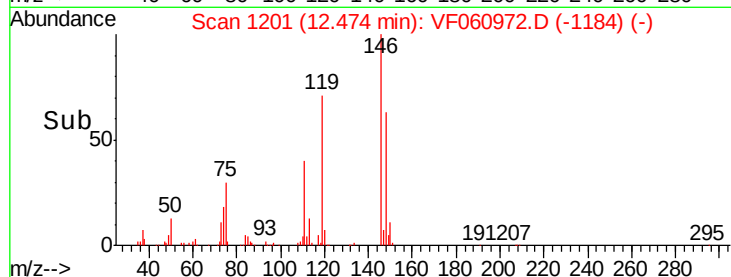
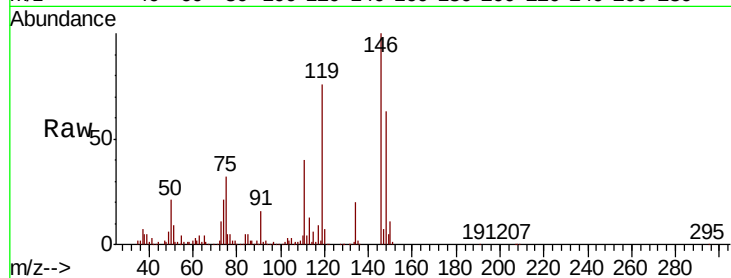
#87
 1,3-Dichlorobenzene
 Concen: 48.269 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.0	59.9
148	63.1	32.9	98.6

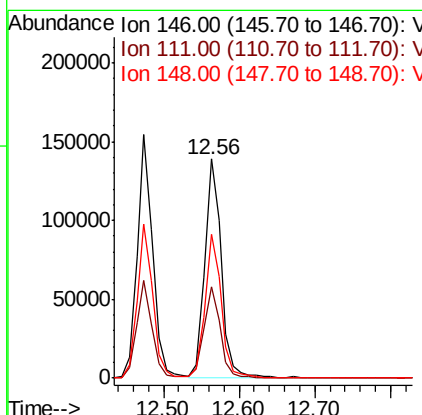
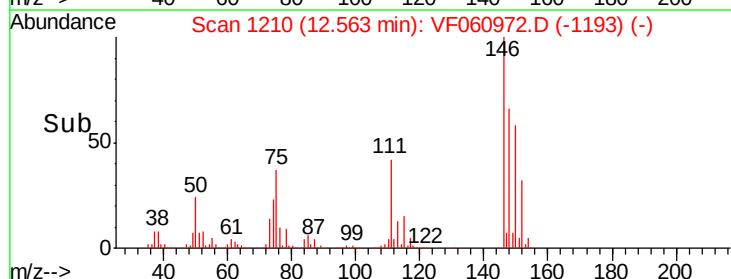
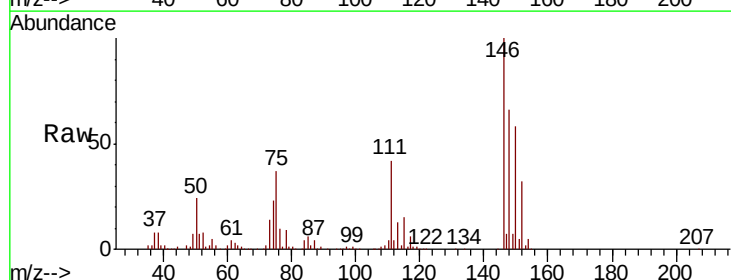
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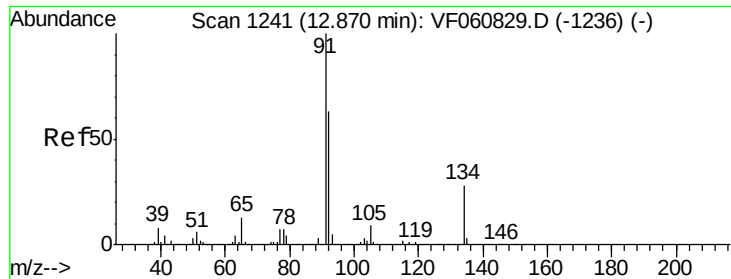
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 47.033 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.03 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	18.9	56.7
148	65.6	32.3	96.9





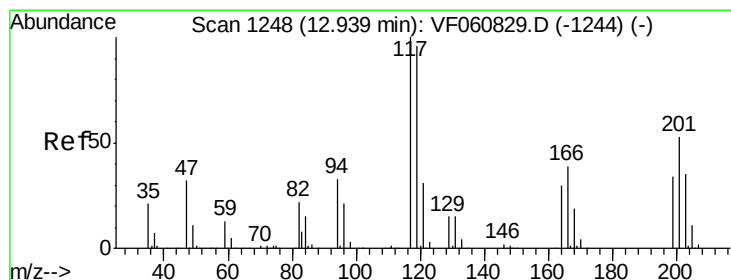
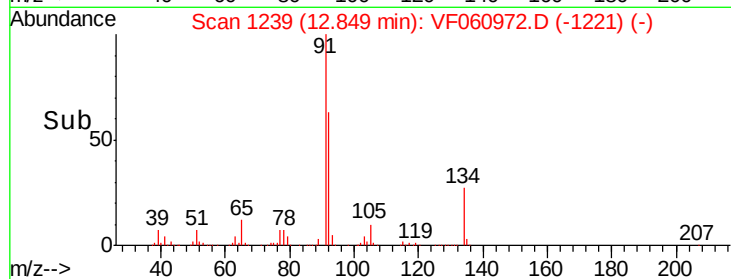
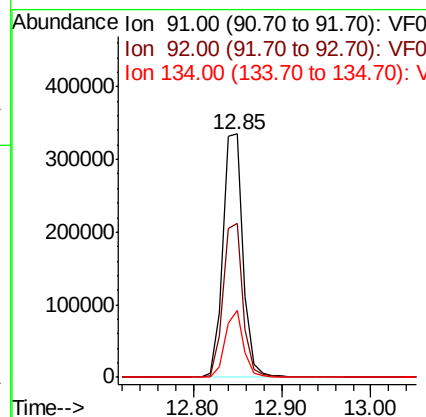
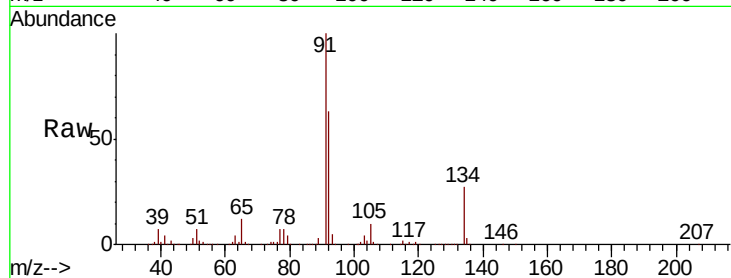
#89
n-Butylbenzene
Concen: 50.411 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	63.2	31.6	94.7	
134	27.3	13.8	41.4	

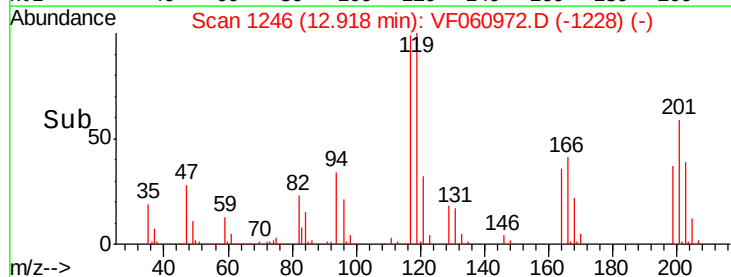
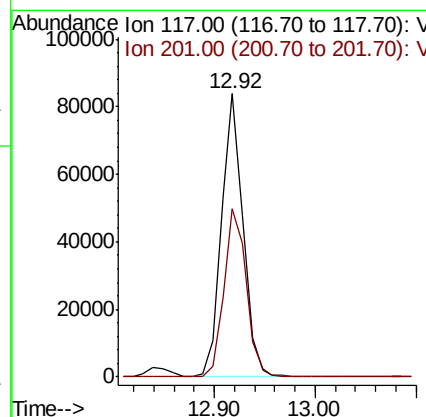
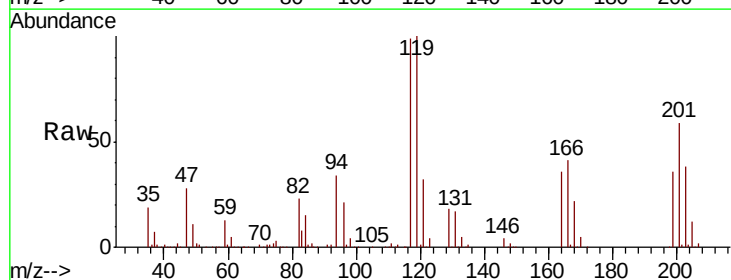
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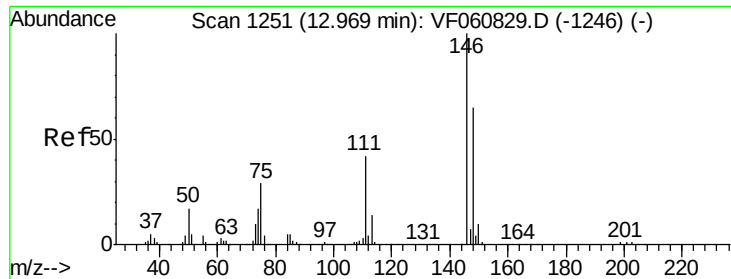
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#90
Hexachloroethane
Concen: 49.752 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	59.6	26.7	80.1	





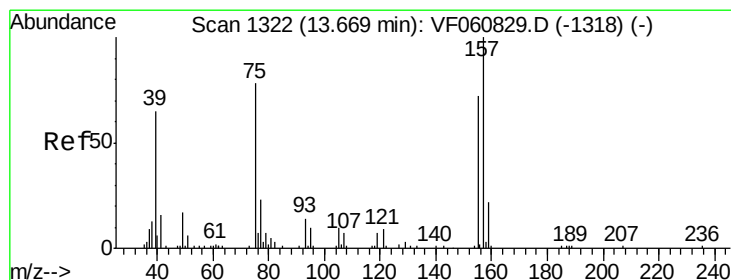
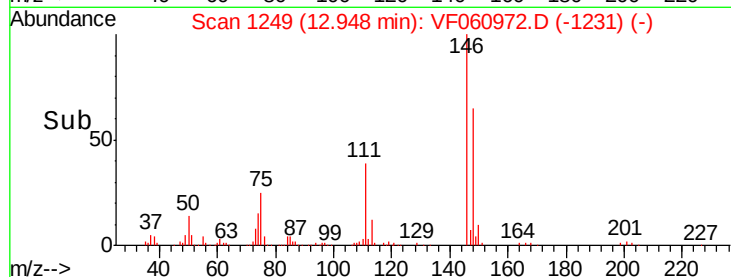
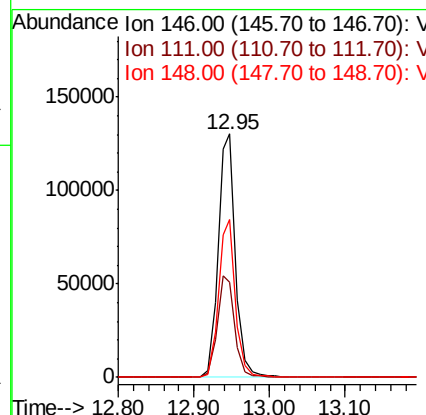
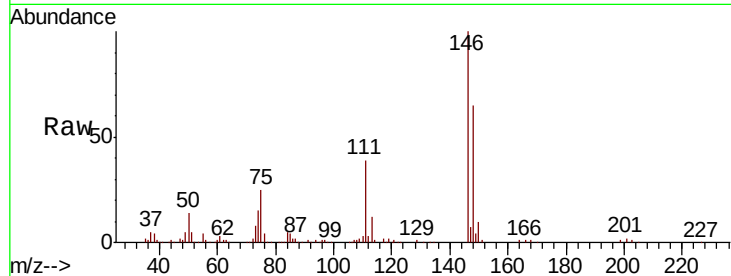
#91
 1,2-Dichlorobenzene
 Concen: 48.120 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	21.2	63.6
148	64.9	32.5	97.5

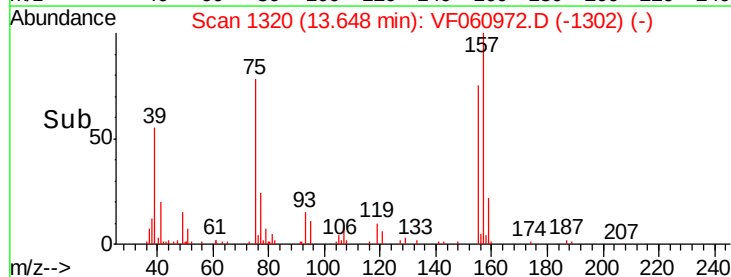
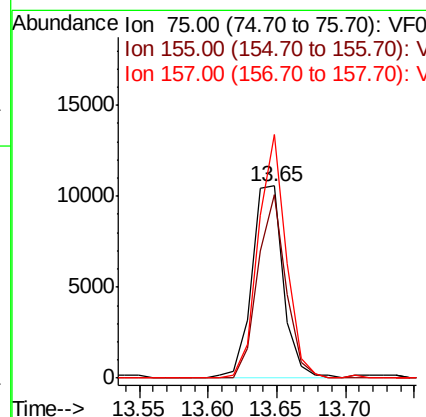
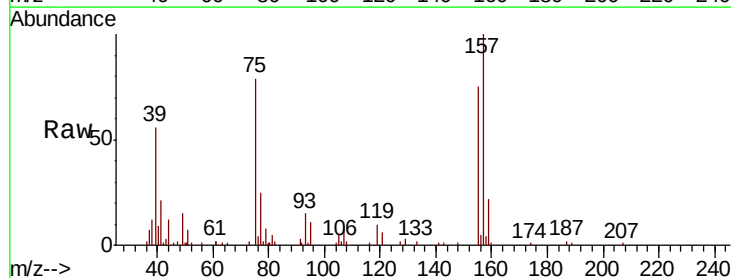
Manual Integrations
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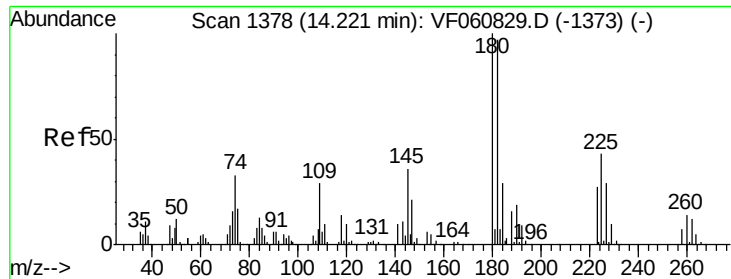
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 12/12/2018 1:28:32 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.555 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.02 min
 Lab File: VF060972.D
 Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.6	45.6	136.9
157	126.7	63.8	191.5





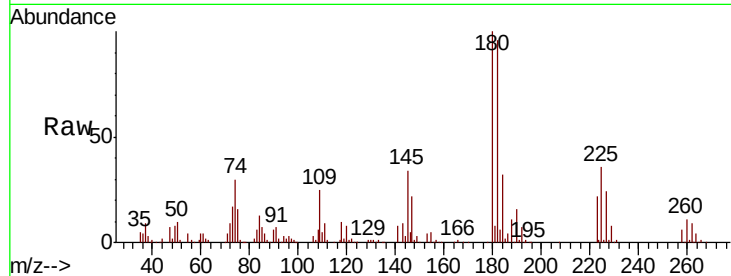
#93
1,2,4-Trichlorobenzene
Concen: 49.841 ug/l
RT: 14.20 min Scan# 1376
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	151872		
182	96.1	48.5	145.5	
145	34.0	18.1	54.3	

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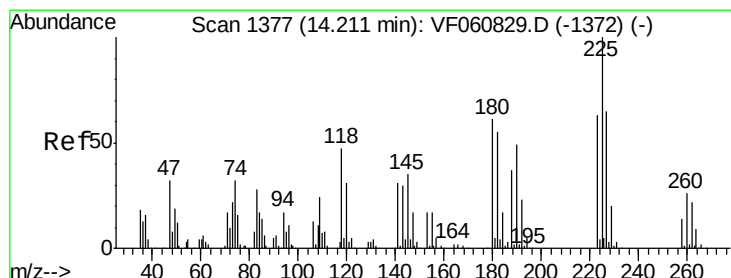
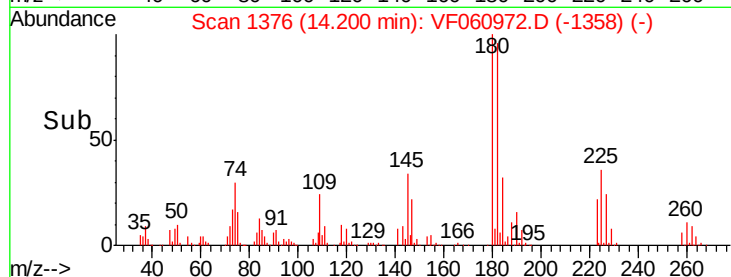
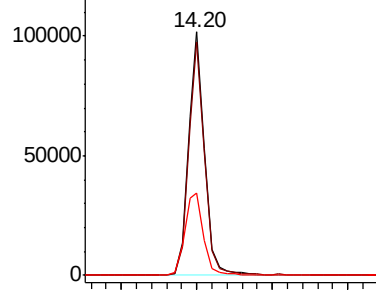


Abundance

Ion 180.00 (179.70 to 180.70): V

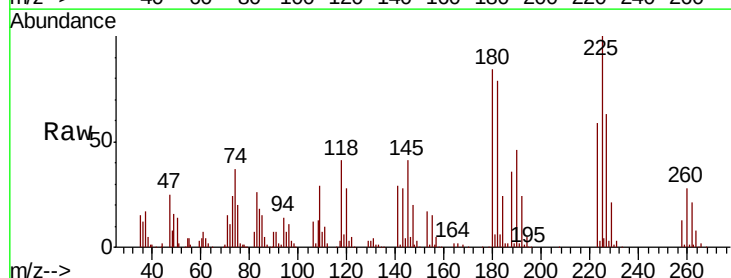
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
Hexachlorobutadiene
Concen: 51.549 ug/l
RT: 14.19 min Scan# 1375
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	104711		
223	58.7	31.4	94.3	
227	62.7	32.5	97.5	

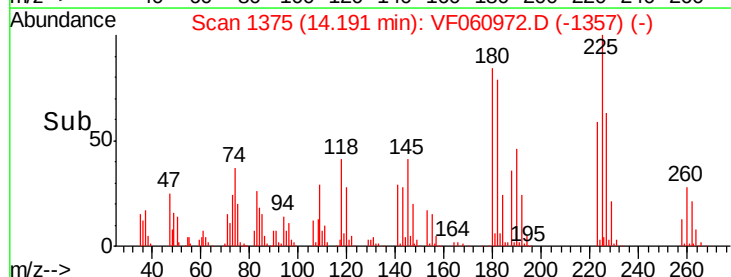
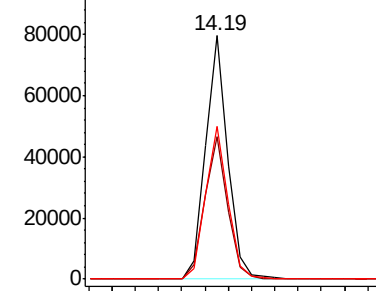


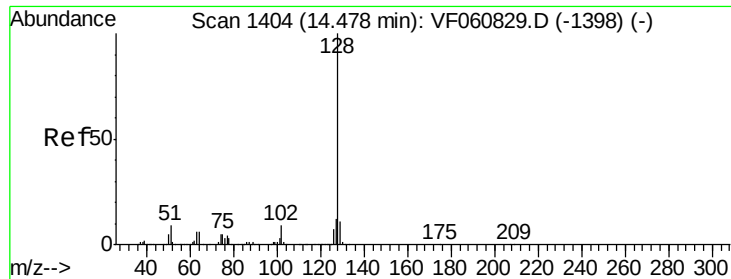
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





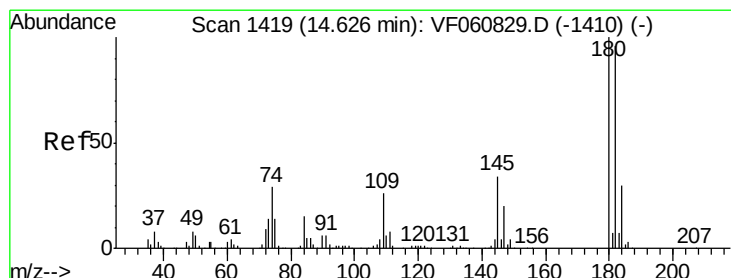
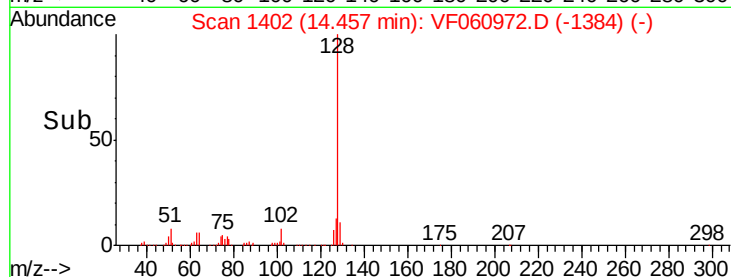
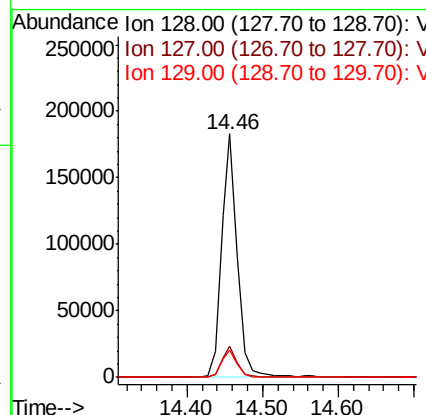
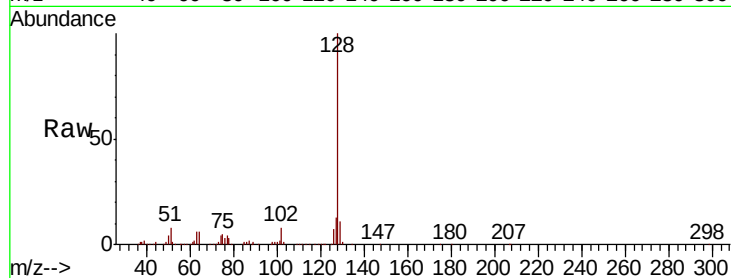
#95
Naphthalene
Concen: 44.953 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:	128	Resp:	267955
Ion Ratio	Lower	Upper	
128	100		
127	12.8	9.9	14.9
129	11.5	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
12/12/2018 1:28:32 PM



#96
1,2,3-Trichlorobenzene
Concen: 48.973 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.02 min
Lab File: VF060972.D
Acq: 11 Dec 2018 12:54

Tgt Ion:	180	Resp:	138560
Ion Ratio	Lower	Upper	
180	100		
182	96.6	47.9	143.8
145	32.9	17.2	51.5

