

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110218\
 Data File : VF060560.D
 Acq On : 2 Nov 2018 12:59
 Operator : VA/AP
 Sample : VSTDIC075
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 3:55:36 PM

Quant Time: Nov 03 03:56:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 04:25:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	240406	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	405766	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	362923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	198920	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	170866	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
35) Dibromofluoromethane	4.11	113	221099	58.03	ug/l	0.00
Spiked Amount			Recovery	=	116.06%	
50) Toluene-d8	7.56	98	640303	68.13	ug/l	0.00
Spiked Amount			Recovery	=	136.26%	
62) 4-Bromofluorobenzene	11.42	95	270285	62.90	ug/l	0.00
Spiked Amount			Recovery	=	125.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	173183	38.690	ug/l	98
3) Chloromethane	1.10	50	136386	50.555	ug/l	94
4) Vinyl Chloride	1.14	62	126013	45.348	ug/l	92
5) Bromomethane	1.32	94	74688	35.449	ug/l	94
6) Chloroethane	1.37	64	50820	35.890	ug/l	97
7) Trichlorofluoromethane	1.50	101	247614	38.236	ug/l	92
8) Diethyl Ether	1.63	74	43397	51.587	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.82	101	137237	42.575	ug/l	96
10) Methyl Iodide	1.89	142	229243	45.581	ug/l	96
11) Tert butyl alcohol	2.58	59	44936	267.351	ug/l #	89
12) 1,1-Dichloroethene	1.78	96	110464	42.557	ug/l	98
13) Acrolein	2.01	56	28449	197.323	ug/l	89
14) Allyl chloride	2.10	41	205911	49.406	ug/l	98
15) Acrylonitrile	2.95	53	97225	269.282	ug/l	93
16) Acetone	2.25	43	185760	243.497	ug/l	99
17) Carbon Disulfide	1.83	76	323624	44.708	ug/l	98
18) Methyl Acetate	2.35	43	63705	57.396	ug/l	99
19) Methyl tert-butyl Ether	2.43	73	276116	48.477	ug/l	97
20) Methylene Chloride	2.23	84	118701m	43.714	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	122159	45.964	ug/l	94
22) Diisopropyl ether	2.81	45	402545	53.309	ug/l	98
23) Vinyl Acetate	3.19	43	1231939	413.931	ug/l	98
24) 1,1-Dichloroethane	2.88	63	239034	44.235	ug/l	98
25) 2-Butanone	4.34	43	378406	340.267	ug/l	99
26) 2,2-Dichloropropane	3.60	77	174864	52.412	ug/l	99
27) cis-1,2-Dichloroethene	3.48	96	243787	72.659	ug/l	98
28) Bromochloromethane	3.72	49	143573	69.997	ug/l	100
29) Tetrahydrofuran	4.08	42	159424	462.312	ug/l	99
30) Chloroform	3.86	83	390752	56.759	ug/l	99
31) Cyclohexane	3.70	56	312283	74.975	ug/l	94
32) 1,1,1-Trichloroethane	4.11	97	290245	52.113	ug/l	97
36) 1,1-Dichloropropene	4.28	75	302801	60.878	ug/l	100
37) Ethyl Acetate	4.11	43	142829	84.088	ug/l	99
38) Carbon Tetrachloride	3.99	117	280017m	49.273	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	365216	69.984	ug/l	97
40) Benzene	4.63	78	694926	68.356	ug/l	98
41) Methacrylonitrile	4.75	41	78152	80.337	ug/l	93
42) 1,2-Dichloroethane	4.95	62	228448	52.122	ug/l	97
43) Isopropyl Acetate	6.96	43	196887	97.155	ug/l	99
44) Trichloroethene	5.51	130	222672	68.144	ug/l	99
45) 1,2-Dichloropropane	6.24	63	195048	76.800	ug/l	98
46) Dibromomethane	6.09	93	121480	63.402	ug/l	93
47) Bromodichloromethane	6.39	83	294222	60.606	ug/l	97
48) Methyl methacrylate	6.72	41	118980	86.871	ug/l	97
49) 1,4-Dioxane	6.70	88	26897	2012.803	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	607681	416.011	ug/l	97
52) Toluene	7.63	92	472241	72.383	ug/l	98
53) t-1,3-Dichloropropene	8.28	75	239756	62.750	ug/l	98
54) cis-1,3-Dichloropropene	7.31	75	330637	71.415	ug/l	99
55) 1,1,2-Trichloroethane	8.49	97	142631	74.567	ug/l	96
56) Ethyl methacrylate	8.62	69	183745	84.843	ug/l	96
57) 1,3-Dichloropropane	8.85	76	250677	77.373	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.63	63	60595	278.432	ug/l	100
59) 2-Hexanone	9.50	43	448748	424.136	ug/l	99
60) Dibromochloromethane	8.72	129	194901	64.050	ug/l	100
61) 1,2-Dibromoethane	8.99	107	153488	69.618	ug/l	97
64) Tetrachloroethene	8.15	164	172149	57.002	ug/l	96
65) Chlorobenzene	9.80	112	506183	69.747	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.94	131	198685	60.248	ug/l	98
67) Ethyl Benzene	9.90	91	874206	63.280	ug/l	99
68) m/p-Xylenes	10.14	106	649242	136.031	ug/l	96
69) o-Xylene	10.72	106	359563	67.174	ug/l	96
70) Styrene	10.80	104	517698	68.334	ug/l	99
71) Bromoform	10.78	173	109210	65.033	ug/l	99
73) Isopropylbenzene	11.13	105	1018529	66.199	ug/l	99
74) N-amyl acetate	11.37	43	281717	87.405	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.70	83	188435	73.182	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	92605	52.386	ug/l	100
77) Bromobenzene	11.50	156	231198	68.664	ug/l	94
78) n-propylbenzene	11.60	91	1139343	62.840	ug/l	97
79) 2-Chlorotoluene	11.72	91	671865	62.235	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	809387	61.668	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.87	75	73663m	85.349	ug/l	
82) 4-Chlorotoluene	11.90	91	698748	62.689	ug/l	97
83) tert-Butylbenzene	12.14	119	834393	64.700	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	784218	58.816	ug/l	98
85) sec-Butylbenzene	12.31	105	1132450	62.645	ug/l	99
86) p-Isopropyltoluene	12.46	119	924143	62.341	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	418589	62.199	ug/l	99
88) 1,4-Dichlorobenzene	12.57	146	424510	66.747	ug/l	97
89) n-Butylbenzene	12.85	91	934842	60.151	ug/l	99
90) Hexachloroethane	12.92	117	242672	63.516	ug/l	80
91) 1,2-Dichlorobenzene	12.95	146	395512	62.659	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	33790	64.814	ug/l	91

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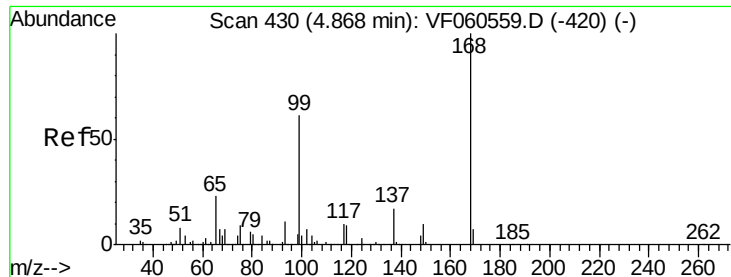
Manual Integrations
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Quant Time: Nov 03 03:56:55 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	269512	57.701	ug/l	97
94) Hexachlorobutadiene	14.19	225	178865	54.715	ug/l	96
95) Naphthalene	14.46	128	570035	68.616	ug/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	260472	58.747	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:168 Resp: 240406

Ion Ratio Lower Upper

168 100

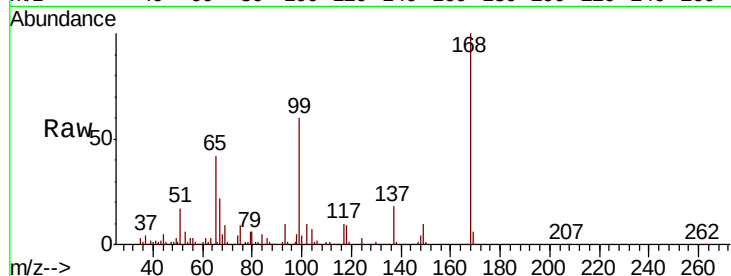
99 59.9 48.6 72.8

Manual Integrations

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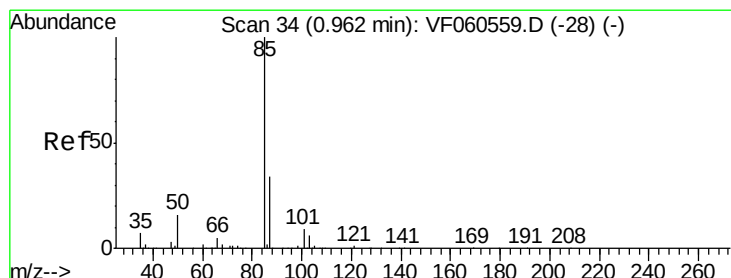
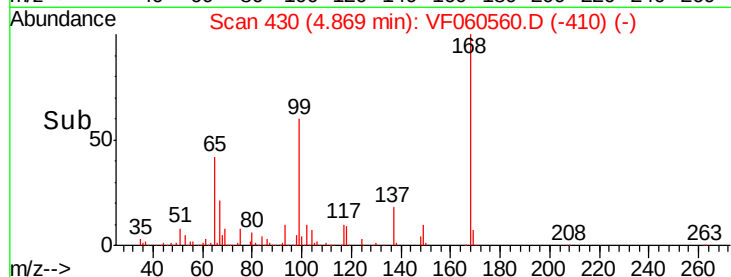
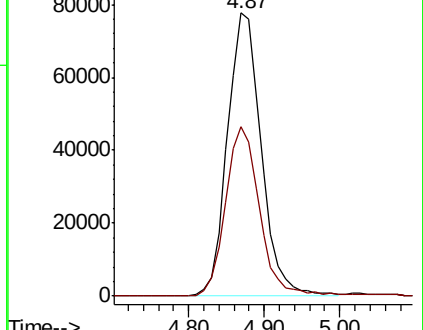
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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 38.690 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060560.D

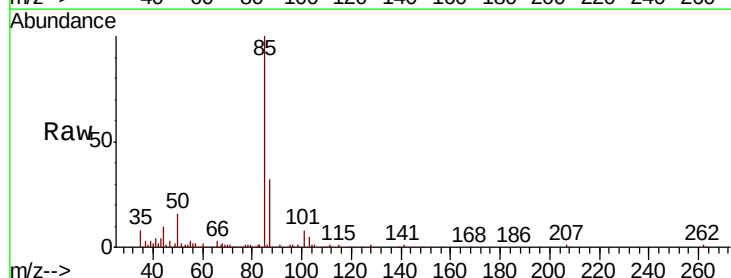
Acq: 2 Nov 2018 12:59

Tgt Ion: 85 Resp: 173183

Ion Ratio Lower Upper

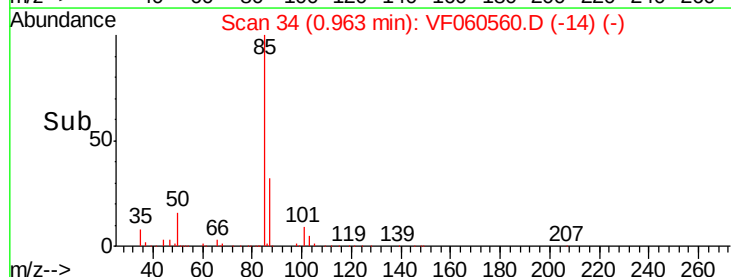
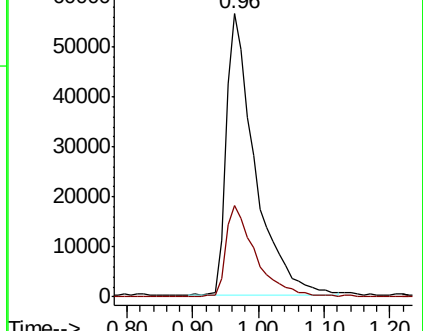
85 100

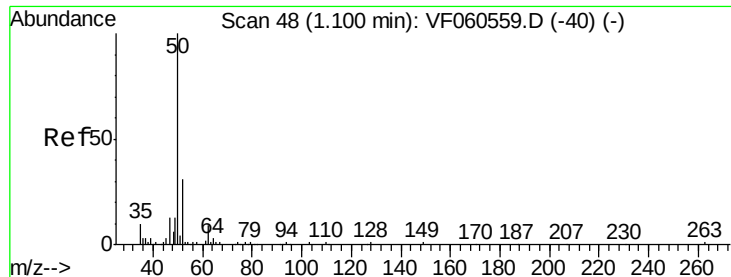
87 32.5 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 50.555 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 50 Resp: 136386

Ion Ratio Lower Upper

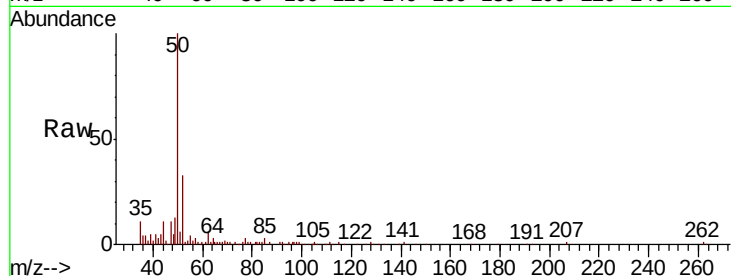
50 100

52 33.2 24.0 36.0

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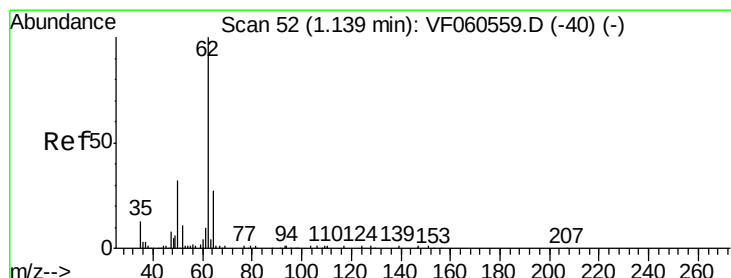
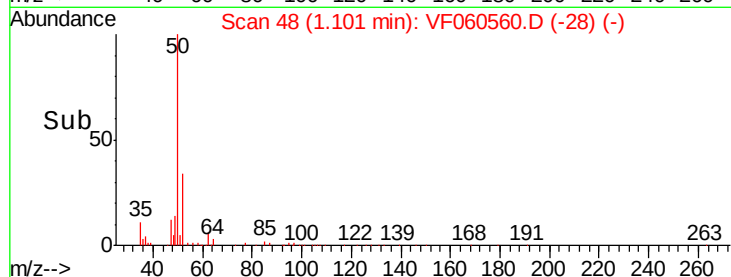
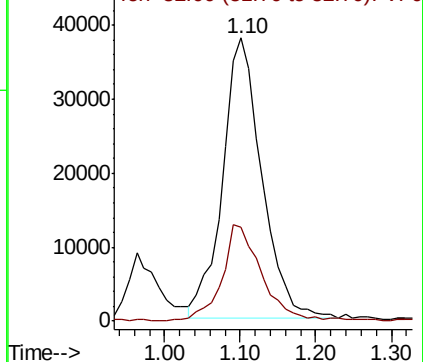
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 45.348 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF060560.D

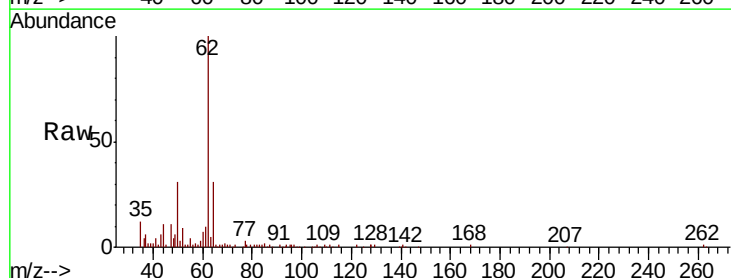
Acq: 2 Nov 2018 12:59

Tgt Ion: 62 Resp: 126013

Ion Ratio Lower Upper

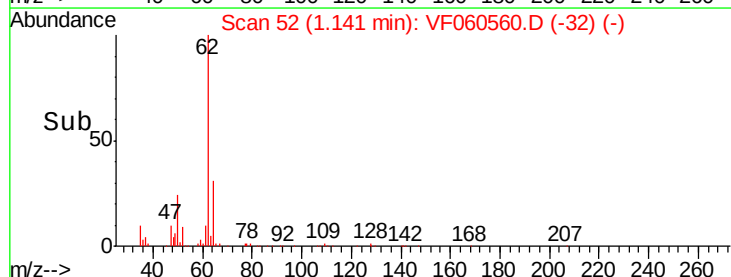
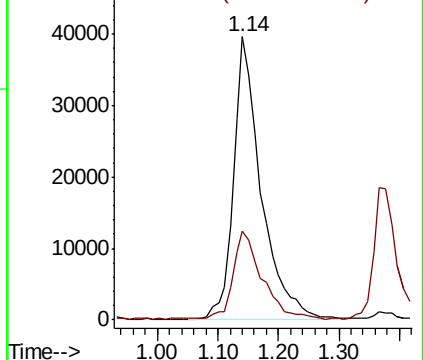
62 100

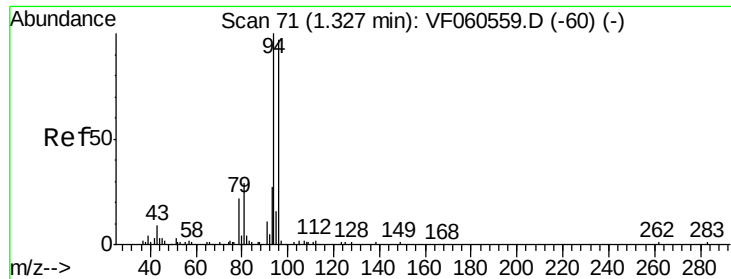
64 31.3 21.8 32.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 35.449 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 94 Resp: 74688

Ion Ratio Lower Upper

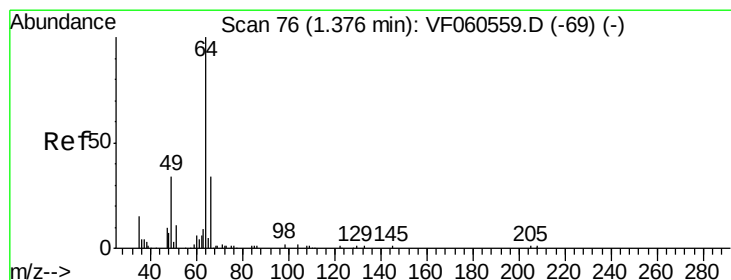
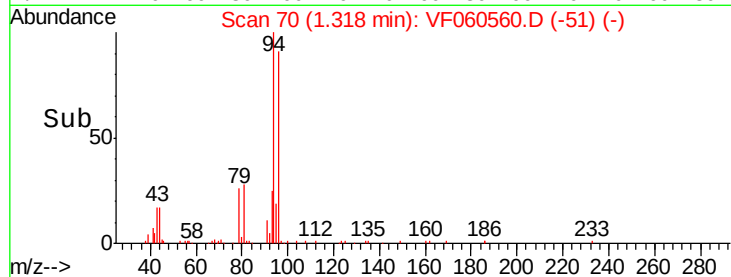
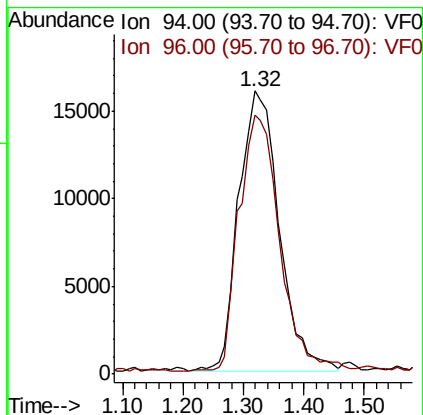
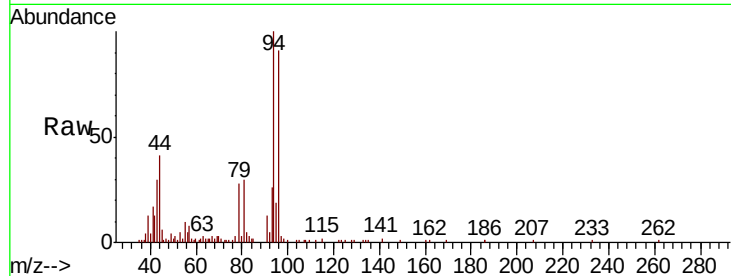
94 100

96 91.3 77.9 116.9

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#6

Chloroethane

Concen: 35.890 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060560.D

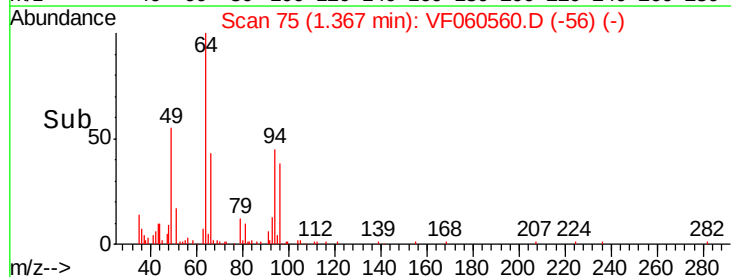
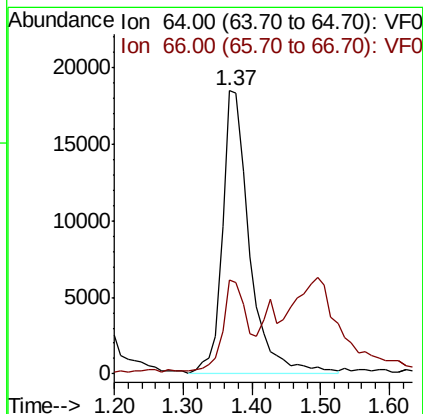
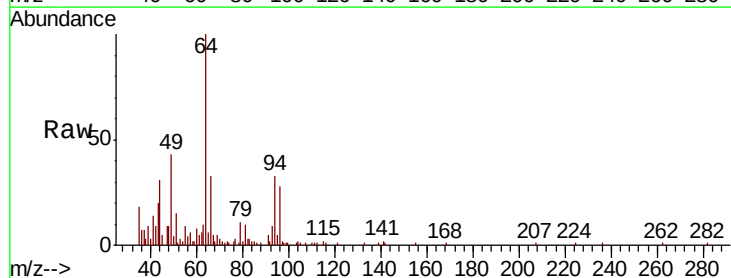
Acq: 2 Nov 2018 12:59

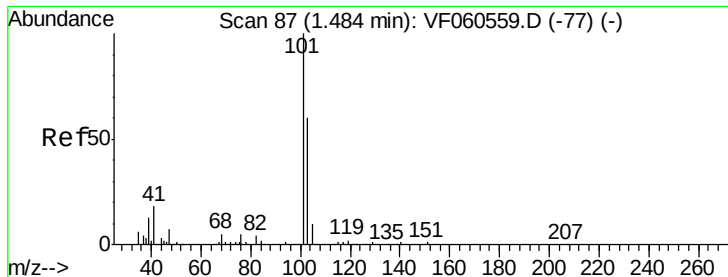
Tgt Ion: 64 Resp: 50820

Ion Ratio Lower Upper

64 100

66 33.0 27.8 41.8





#7

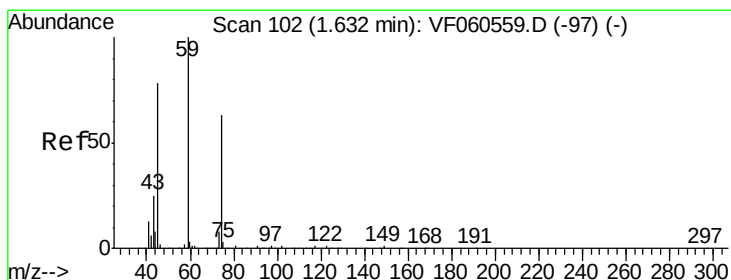
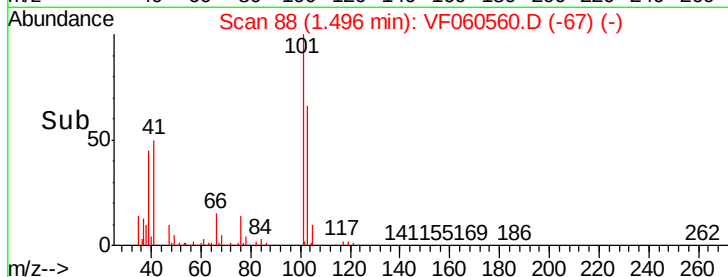
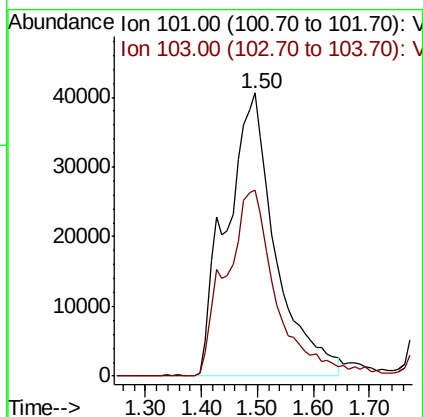
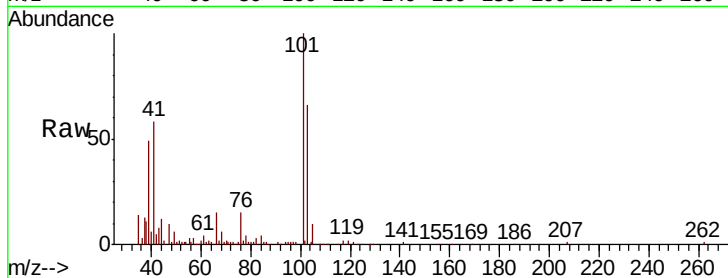
Trichlorofluoromethane
Concen: 38.236 ug/l
RT: 1.50 min Scan# 88
Delta R.T. 0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	48.0	72.0

Manual Integrations
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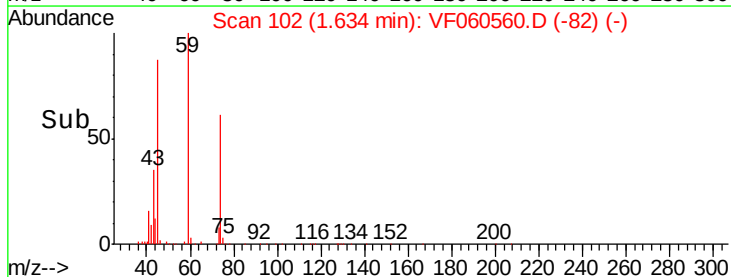
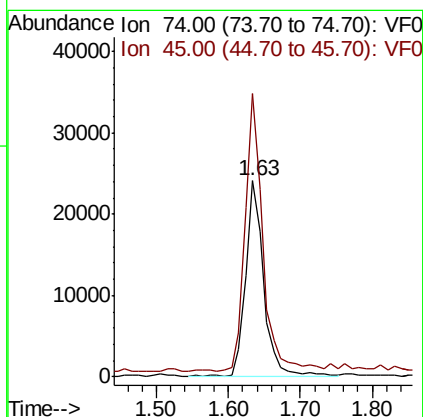
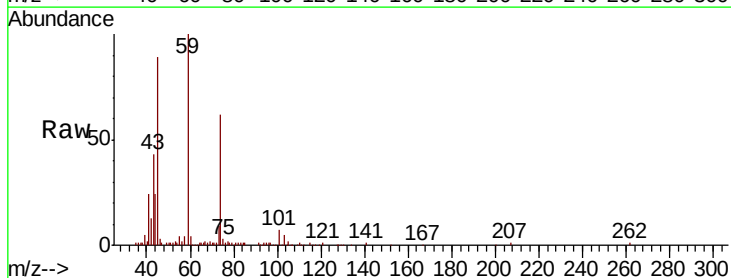
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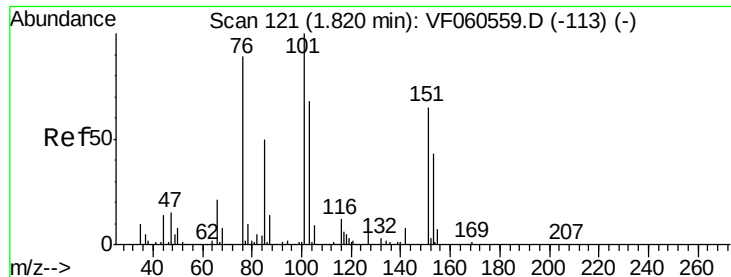


#8

Diethyl Ether
Concen: 51.587 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
74	100		
45	144.5	63.8	191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 42.575 ug/l

RT: 1.82 min Scan# 121

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

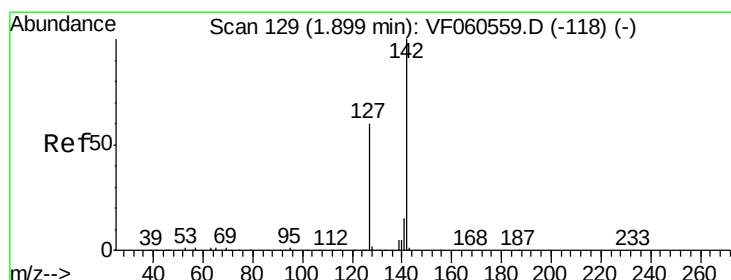
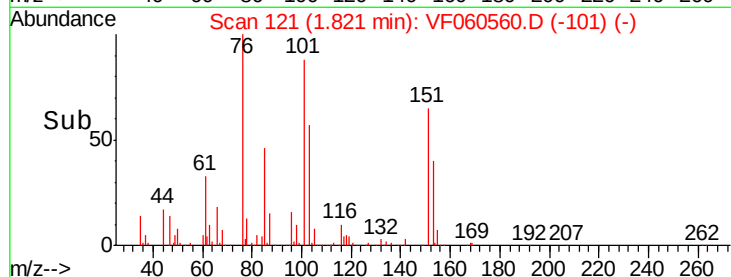
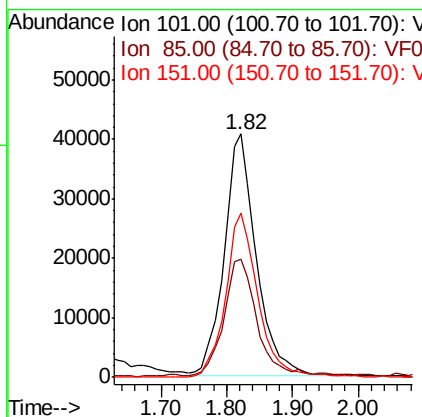
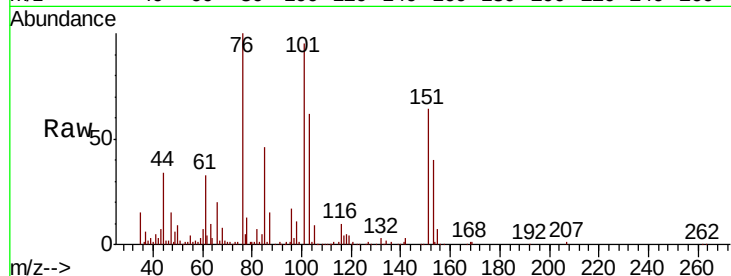
ClientSampleId :

VSTDIC075

Tot Ion:	101	Resp:	137237
Ion Ratio	Lower	Upper	
101	100		
85	48.4	39.8	59.6
151	67.6	50.8	76.2

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#10

Methyl Iodide

Concen: 45.581 ug/l

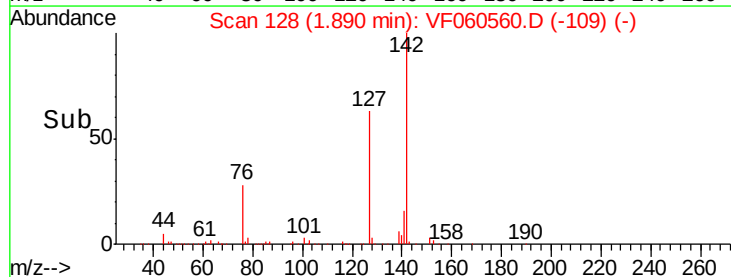
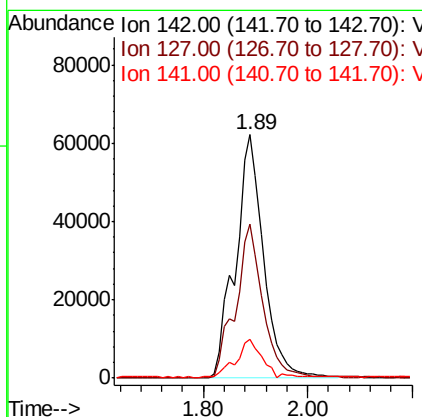
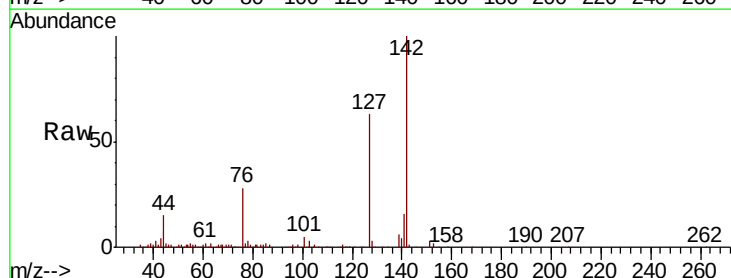
RT: 1.89 min Scan# 128

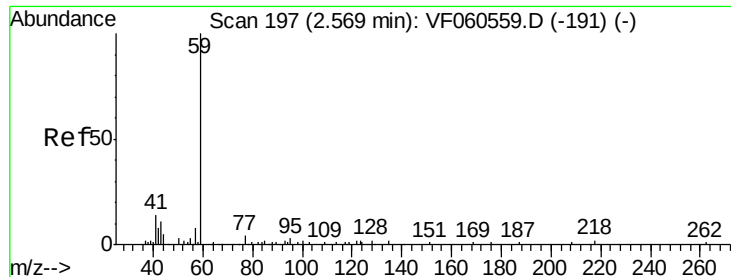
Delta R.T. -0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	142	Resp:	229243
Ion Ratio	Lower	Upper	
142	100		
127	63.2	47.8	71.6
141	16.2	12.7	19.1





#11

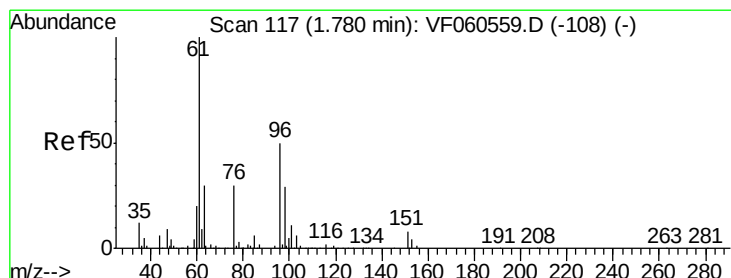
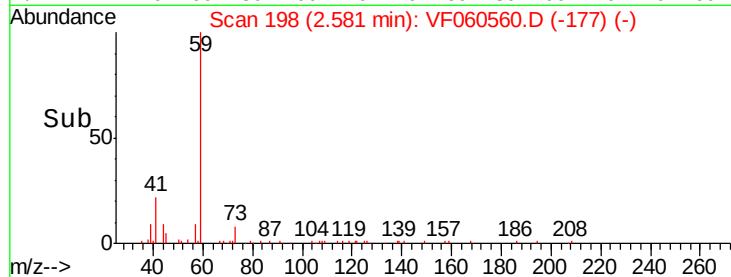
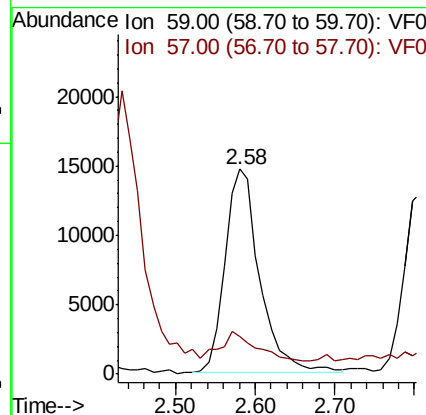
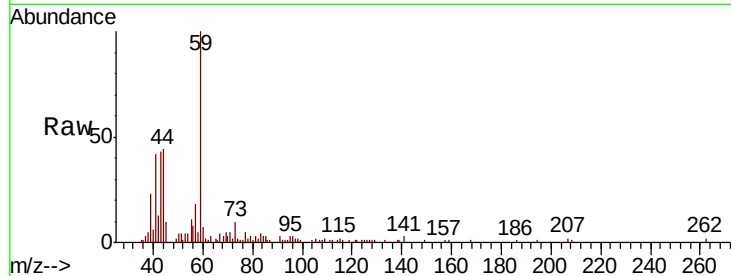
Tert butyl alcohol
Concen: 267.351 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
59	100		
57	18.3	19.0	28.4#

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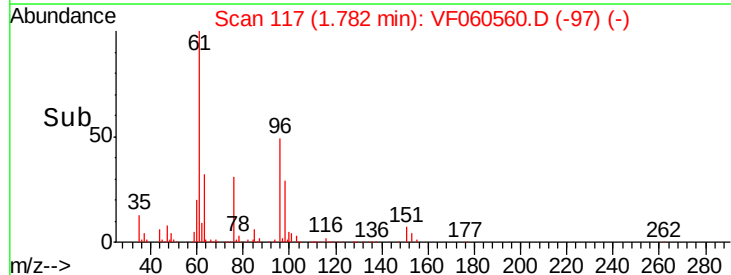
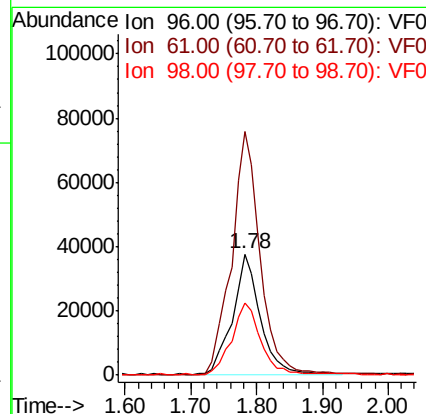
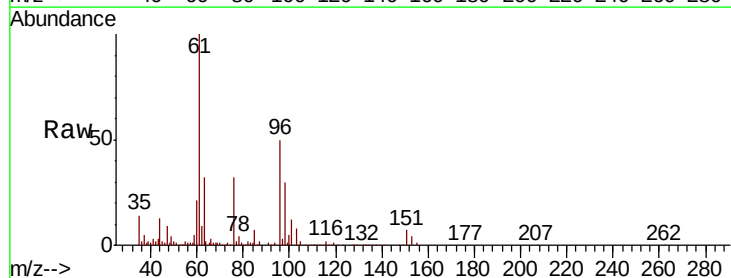
MMDadoda
11/5/2018 3:55:36 PM

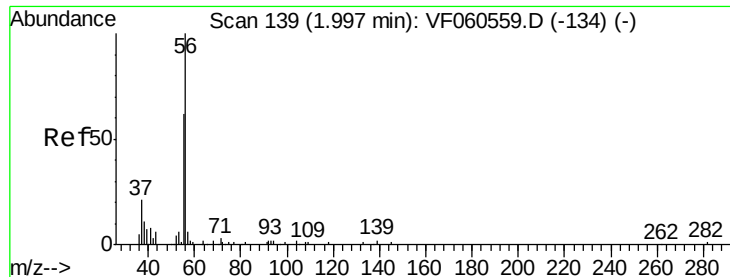


#12

1,1-Dichloroethene
Concen: 42.557 ug/l
RT: 1.78 min Scan# 117
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	201.1	158.1	237.1
98	59.6	47.0	70.6





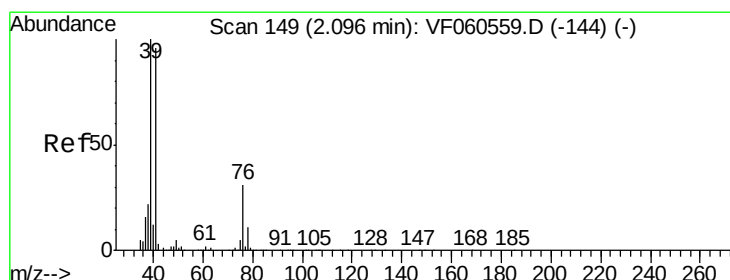
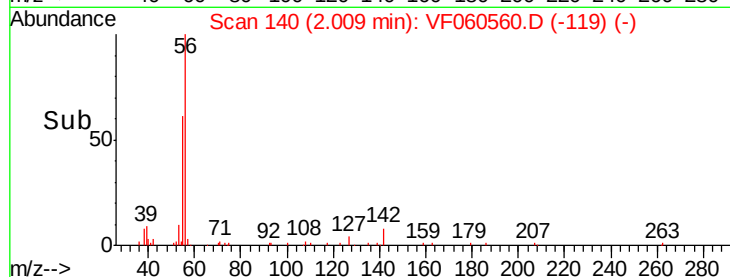
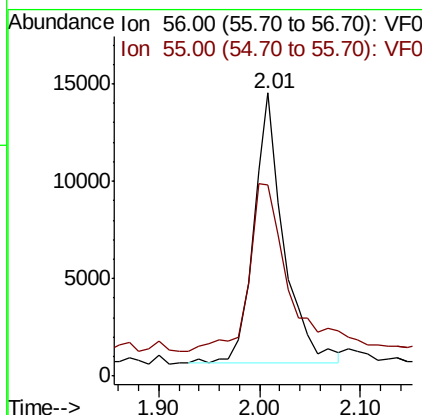
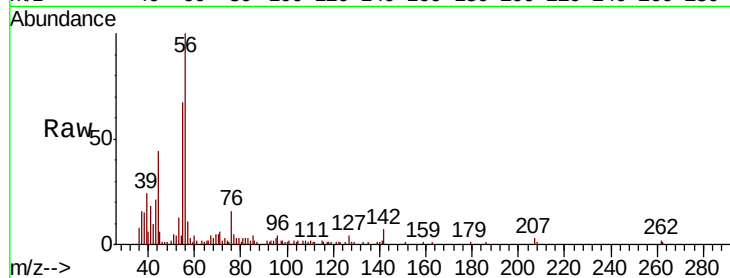
#13
Acrolein
Concen: 197.323 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	56	Resp	28449
Ion Ratio	100	Lower	Upper
55	67.5	61.8	92.6

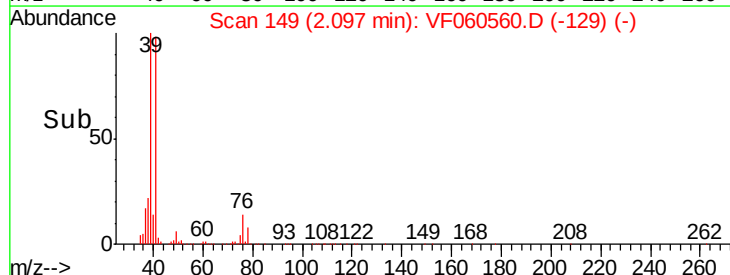
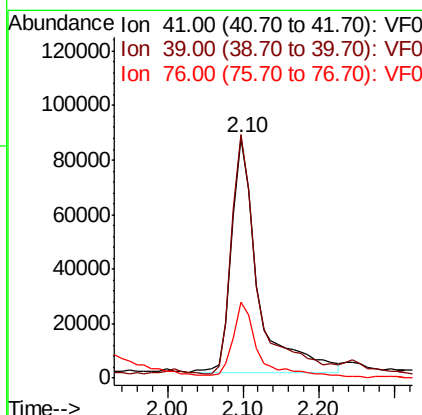
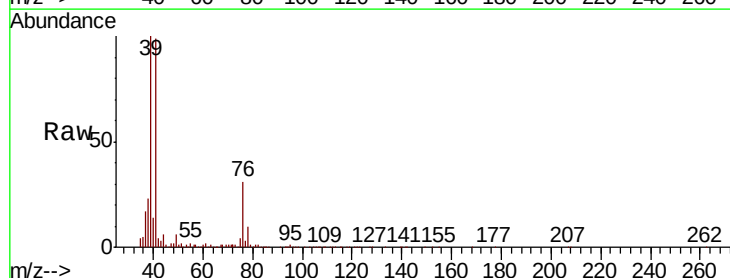
Manual Integrations
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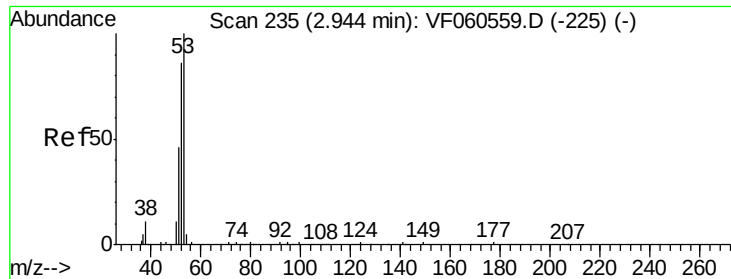
MMDadoda
11/5/2018 3:55:36 PM



#14
Allyl chloride
Concen: 49.406 ug/l
RT: 2.10 min Scan# 149
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	41	Resp	205911
Ion Ratio	100	Lower	Upper
39	101.3	82.6	124.0
76	31.5	26.7	40.1





#15

Acrylonitrile

Concen: 269.282 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

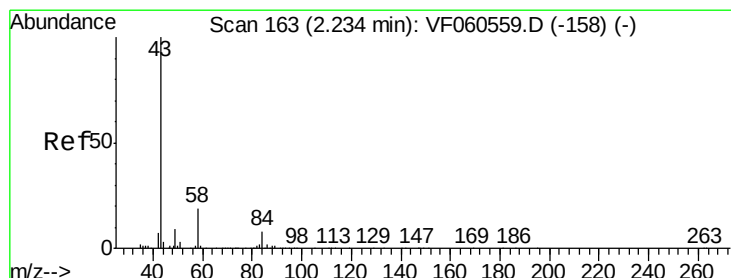
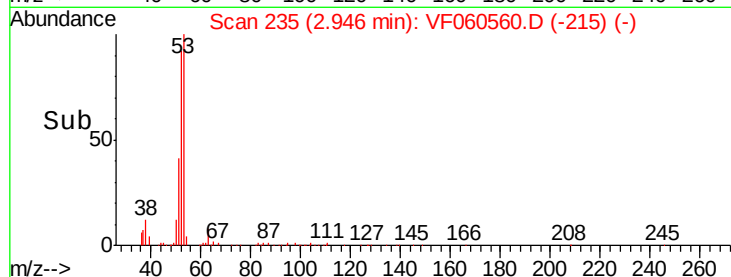
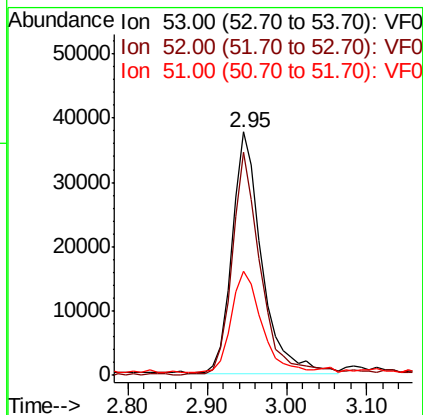
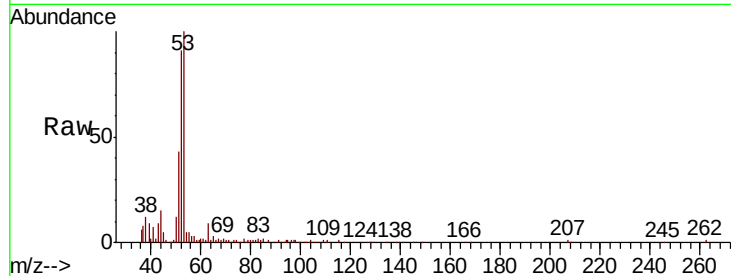
ClientSampleId :

VSTDIC075

Tot Ion:	53	Resp:	97225
Ion	Ratio	Lower	Upper
53	100		
52	91.4	68.5	102.7
51	42.7	38.2	57.2

Manual Integrations
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#16

Acetone

Concen: 243.497 ug/l

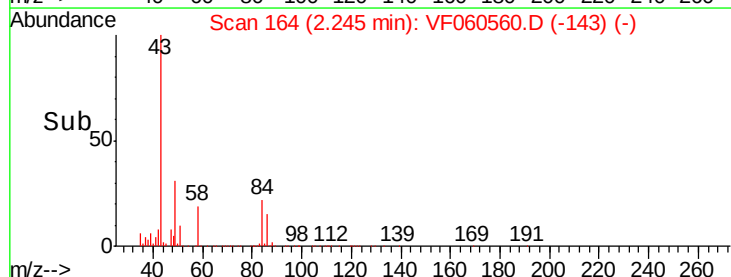
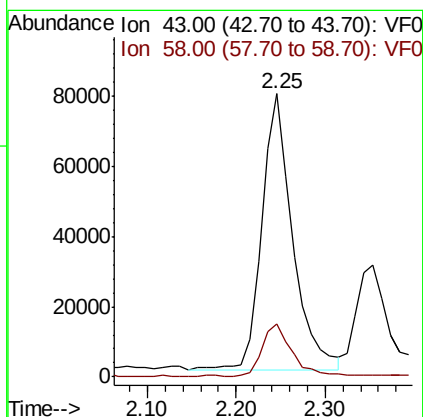
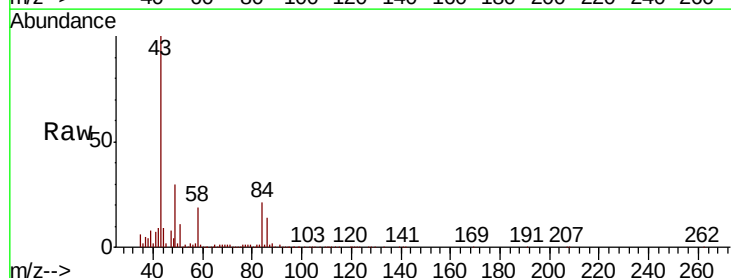
RT: 2.25 min Scan# 164

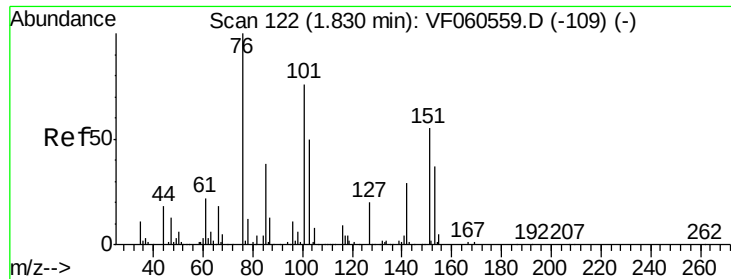
Delta R.T. 0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	43	Resp:	185760
Ion	Ratio	Lower	Upper
43	100		
58	18.8	14.6	22.0





#17

Carbon Disulfide

Concen: 44.708 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 76 Resp: 323624

Ion Ratio Lower Upper

76 100

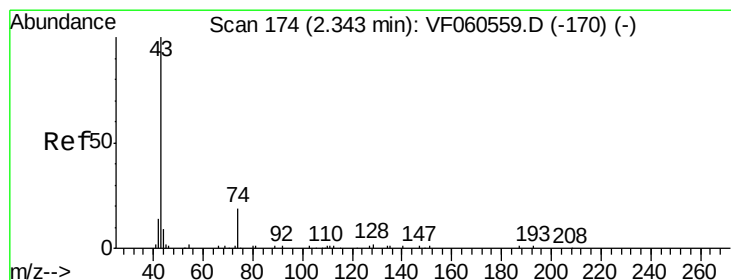
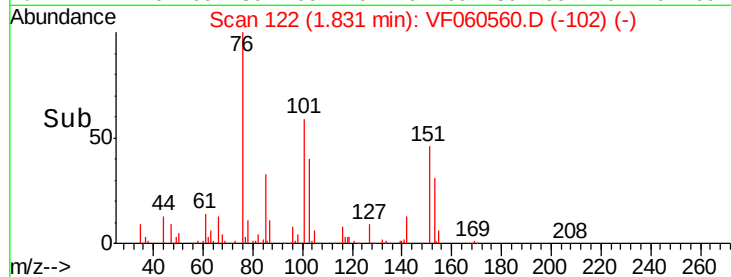
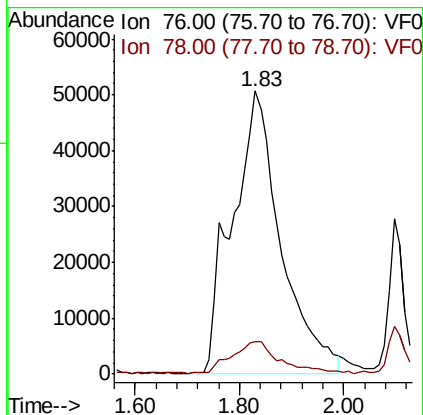
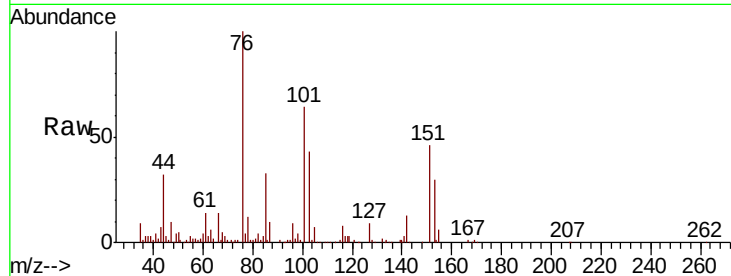
78 11.6 9.9 14.9

Manual Integrations

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#18

Methyl Acetate

Concen: 57.396 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF060560.D

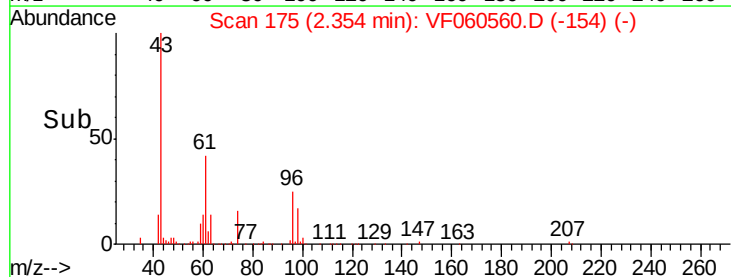
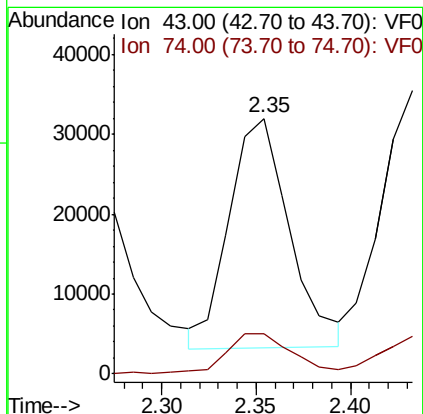
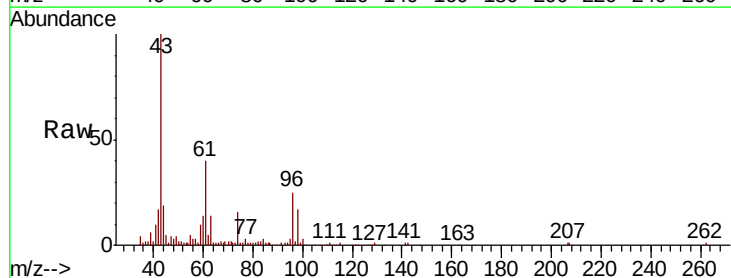
Acq: 2 Nov 2018 12:59

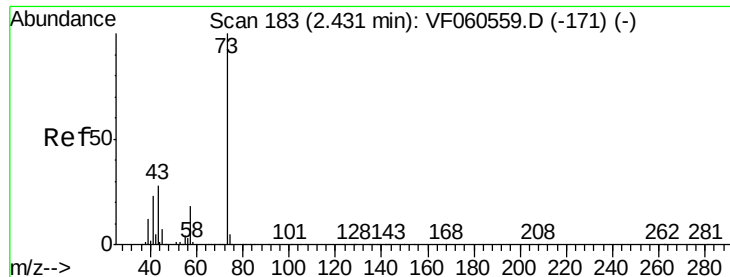
Tgt Ion: 43 Resp: 63705

Ion Ratio Lower Upper

43 100

74 15.7 12.1 18.1





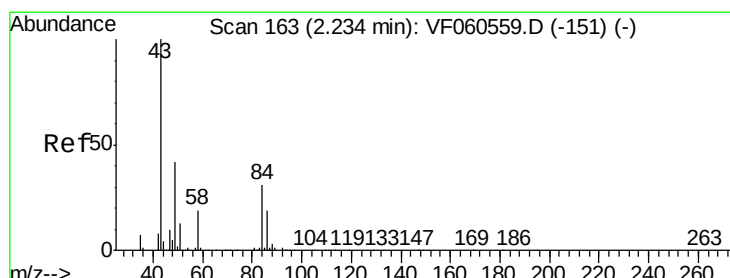
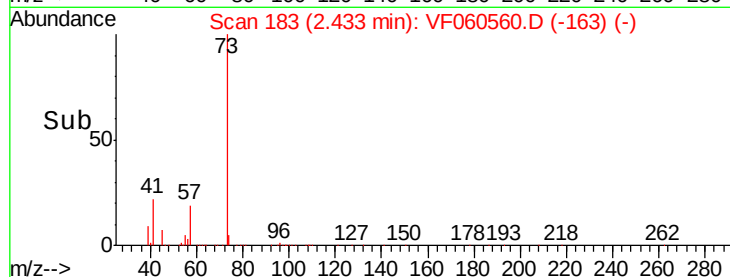
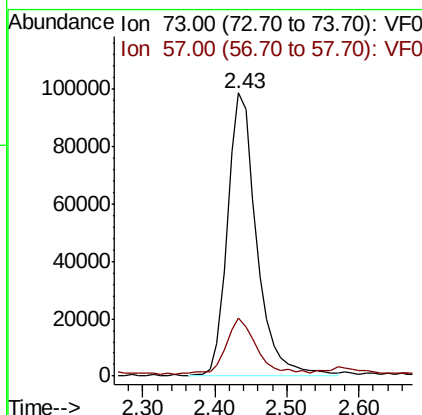
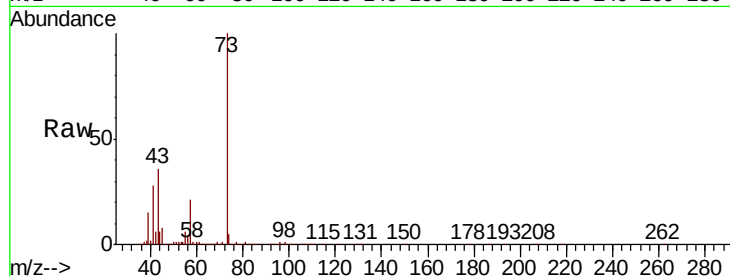
#19
Methyl tert-butyl Ether
Concen: 48.477 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.7	15.4	23.0

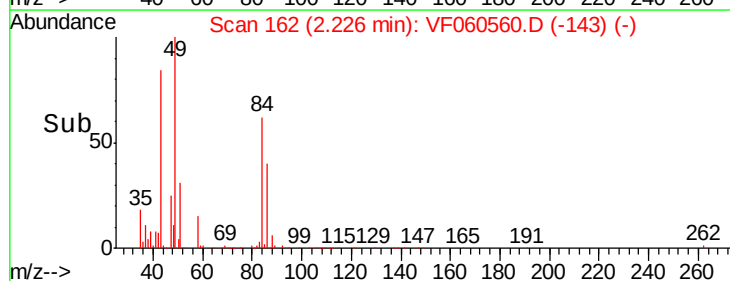
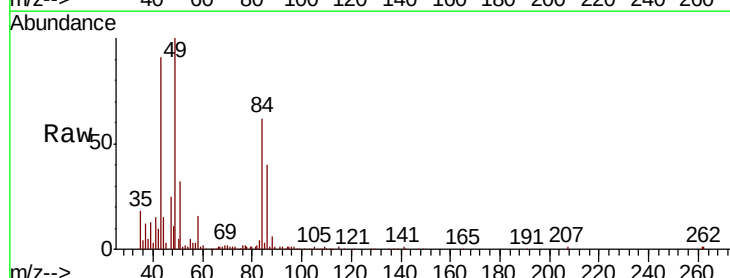
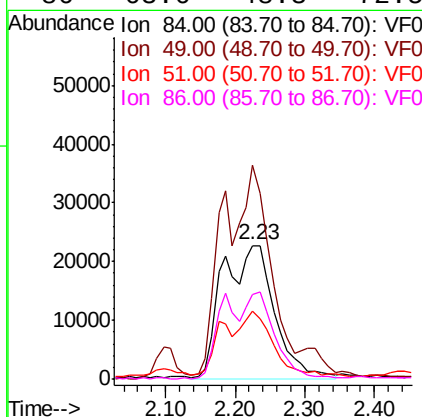
Manual Integrations
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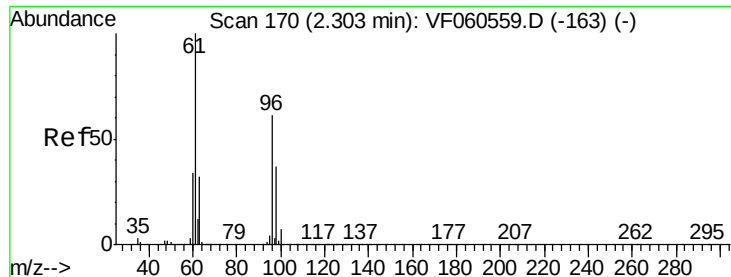
MMDadoda
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#20
Methylene Chloride
Concen: 43.714 ug/l m
RT: 2.23 min Scan# 162
Delta R.T. -0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
84	100		
49	160.2	109.9	164.9
51	50.9	35.8	53.8
86	63.6	48.3	72.5





#21

trans-1,2-Dichloroethene

Concen: 45.964 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

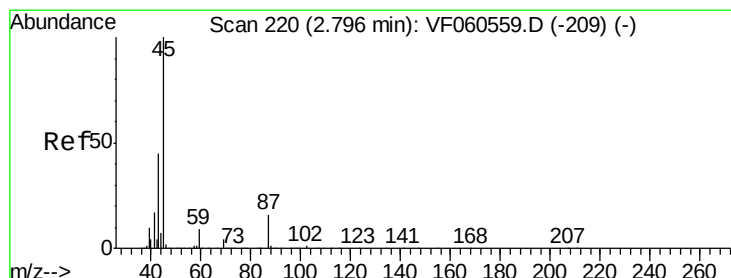
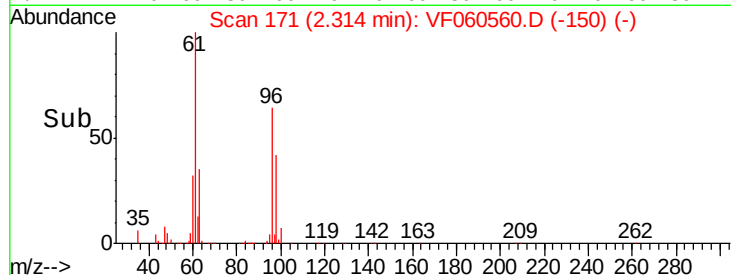
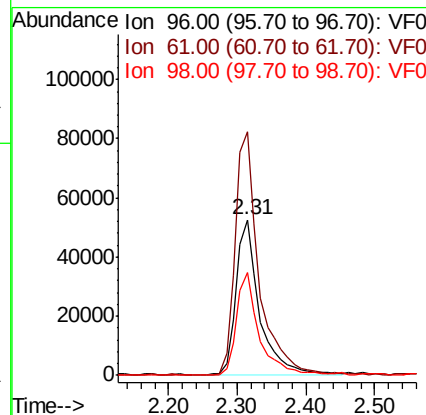
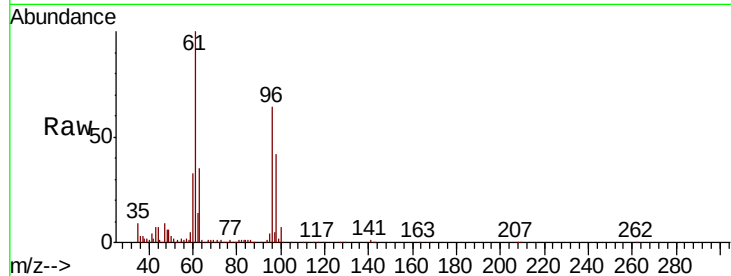
ClientSampleId :

VSTDIC075

Tot Ion:	96	Resp:	122159
Ion	Ratio	Lower	Upper
96	100		
61	156.4	131.3	196.9
98	65.7	48.6	73.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 53.309 ug/l

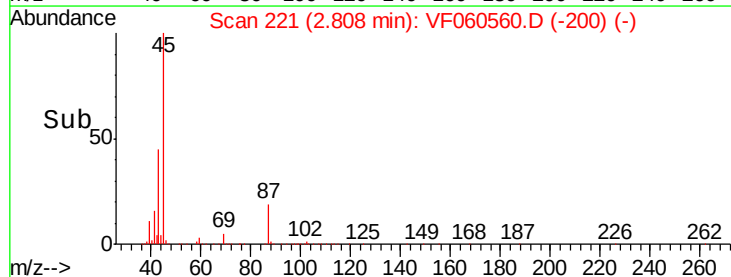
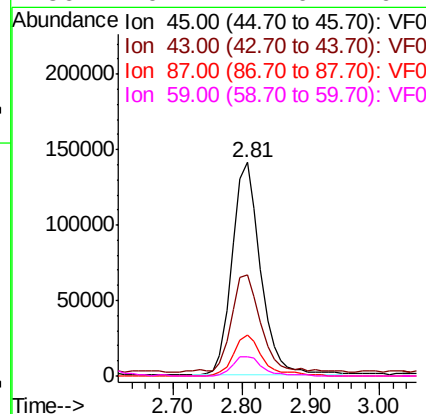
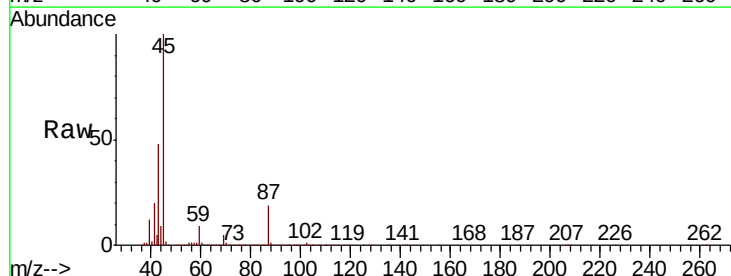
RT: 2.81 min Scan# 221

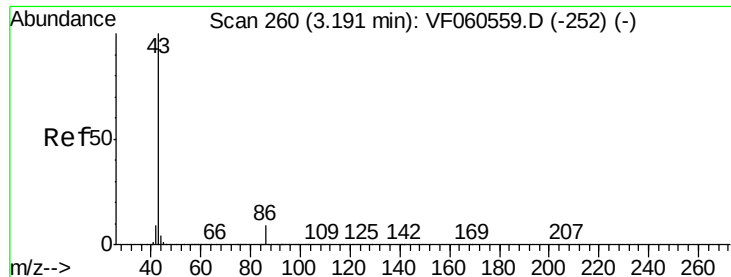
Delta R.T. 0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	45	Resp:	402545
Ion	Ratio	Lower	Upper
45	100		
43	47.6	38.1	57.1
87	18.9	12.7	19.1
59	9.2	7.0	10.4





#23

Vinyl Acetate

Concen: 413.931 ug/l

RT: 3.19 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 1231939

Ion Ratio Lower Upper

43 100

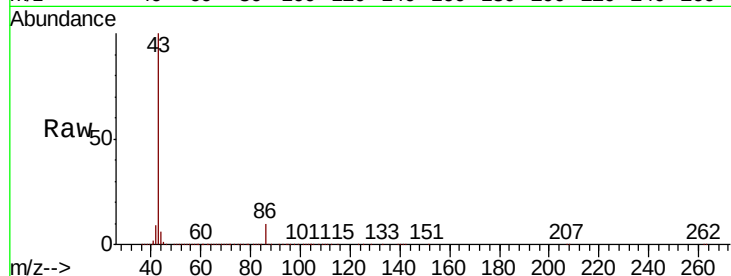
86 9.6 7.1 10.7

Manual Integrations

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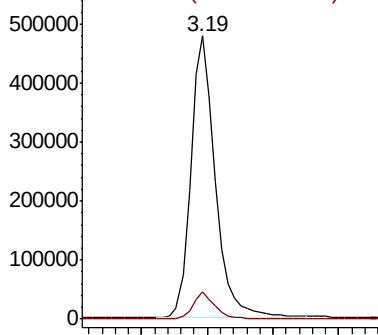
MMDadoda

11/5/2018 3:55:36 PM

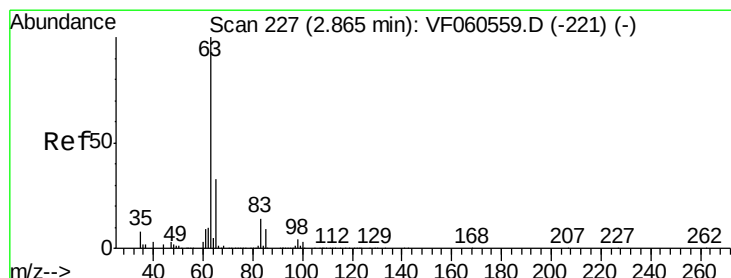
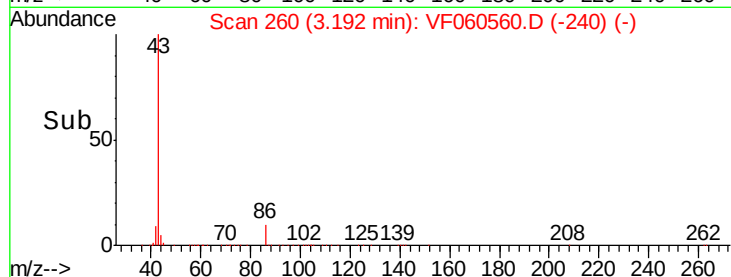


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#24

1,1-Dichloroethane

Concen: 44.235 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

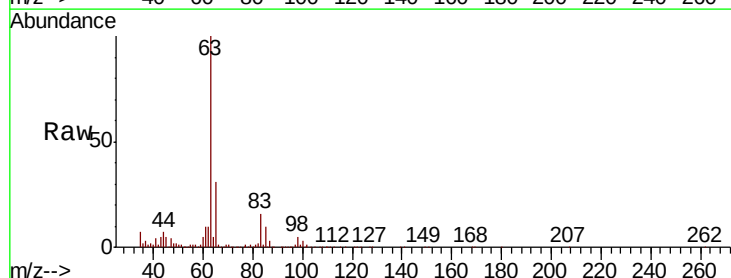
Tgt Ion: 63 Resp: 239034

Ion Ratio Lower Upper

63 100

98 5.3 2.2 6.6

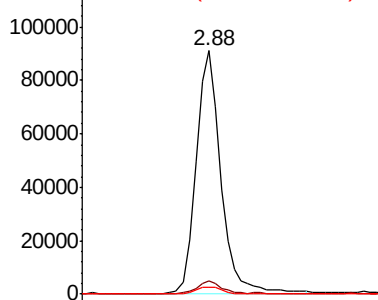
100 3.0 1.4 4.0



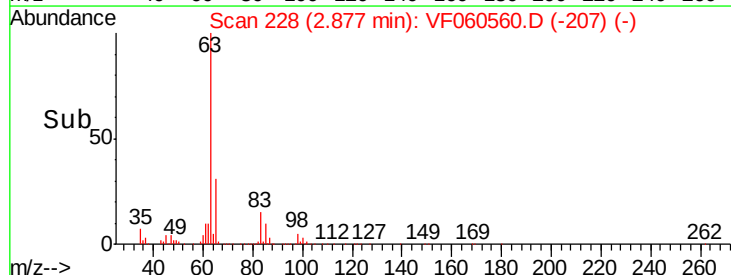
Abundance Ion 63.00 (62.70 to 63.70): VF0

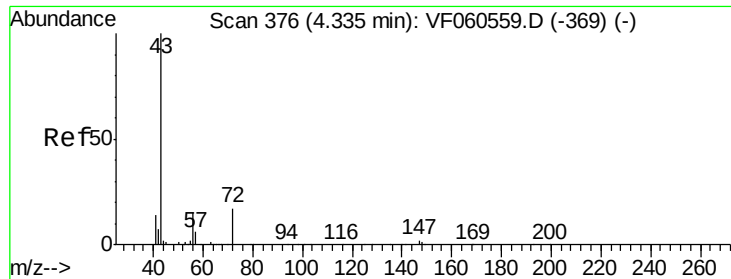
Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#25

2-Butanone

Concen: 340.267 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 378406

Ion Ratio Lower Upper

43 100

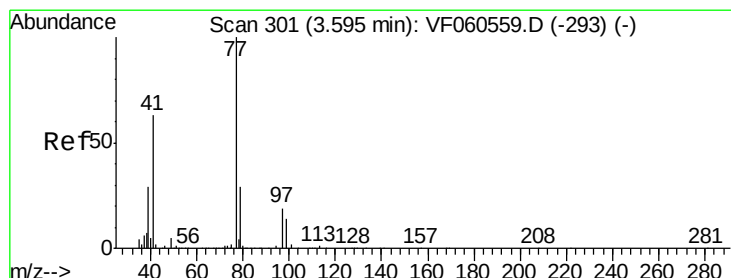
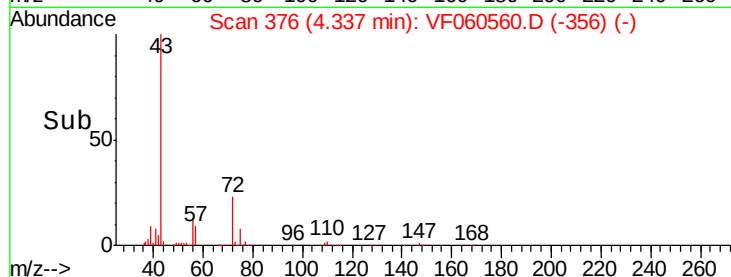
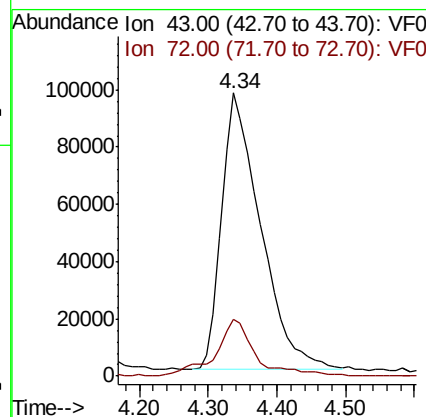
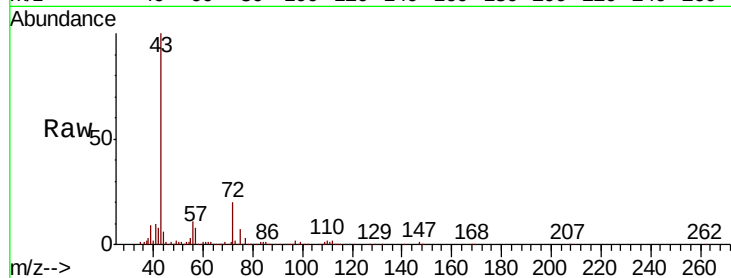
72 19.9 16.2 24.2

Manual Integrations

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MMDadoda

11/5/2018 3:55:36 PM



#26

2,2-Dichloropropane

Concen: 52.412 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.00 min

Lab File: VF060560.D

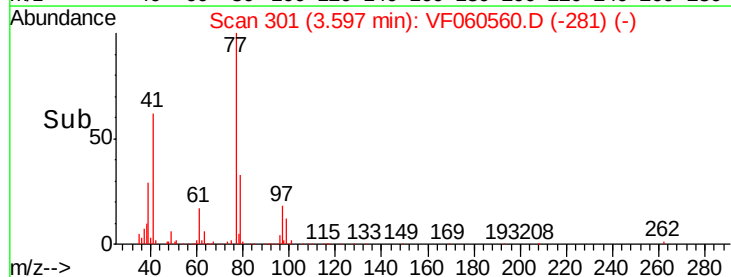
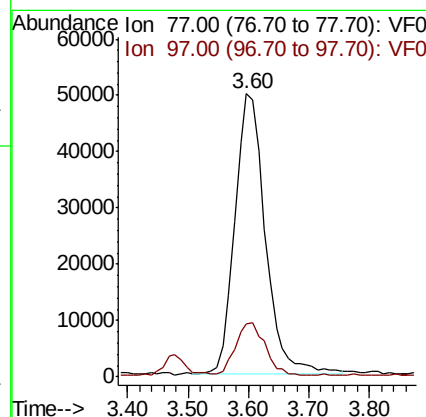
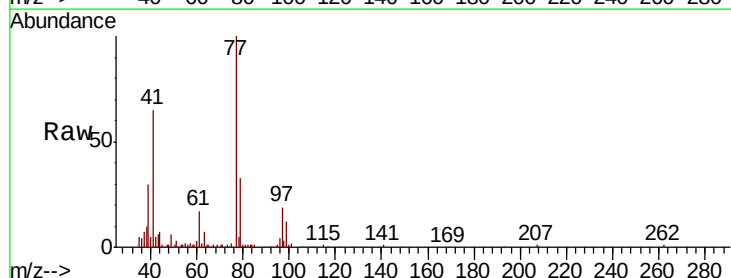
Acq: 2 Nov 2018 12:59

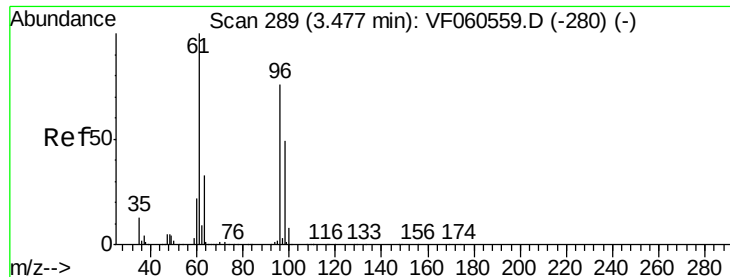
Tgt Ion: 77 Resp: 174864

Ion Ratio Lower Upper

77 100

97 18.9 9.8 29.3





#27

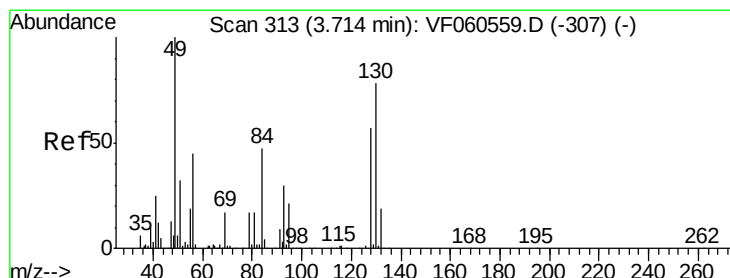
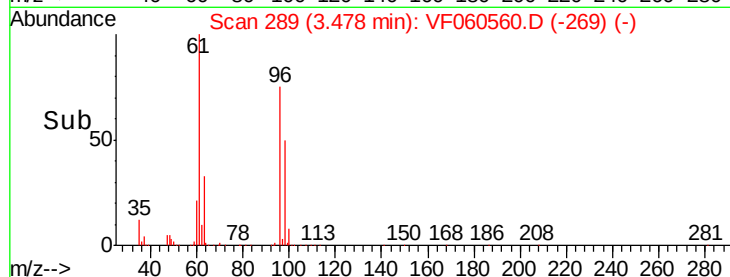
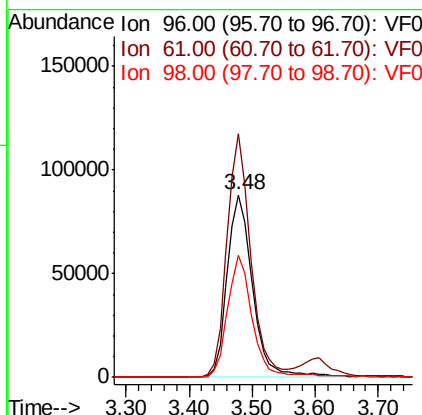
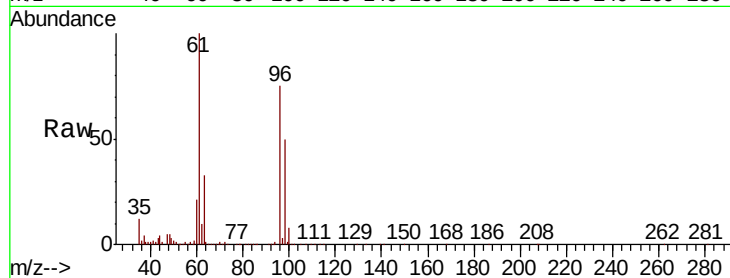
cis-1,2-Dichloroethene
 Concen: 72.659 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
96	100	243787		
61	133.2		0.0	263.0
98	67.0		0.0	130.6

Manual Integrations
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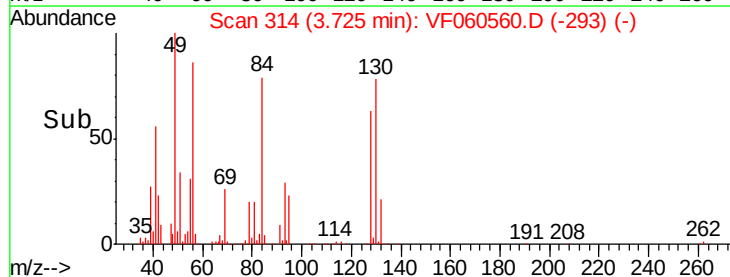
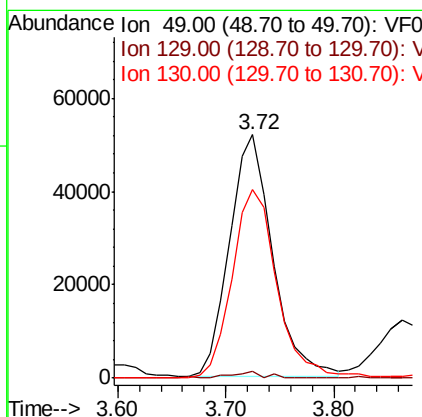
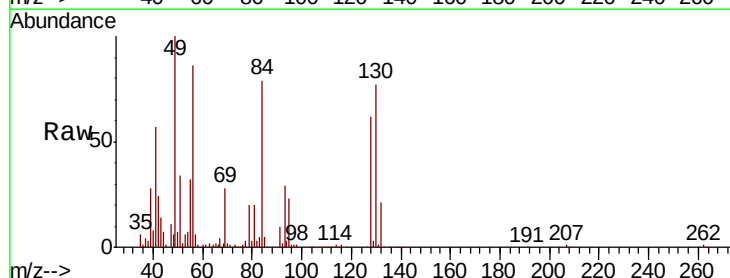
MMDadoda
 11/5/2018 3:55:36 PM

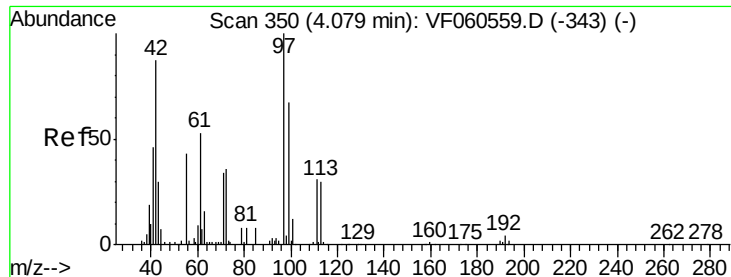


#28

Bromochloromethane
 Concen: 69.997 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. 0.01 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	143573		
129	2.6		0.0	4.6
130	77.2		61.8	92.8





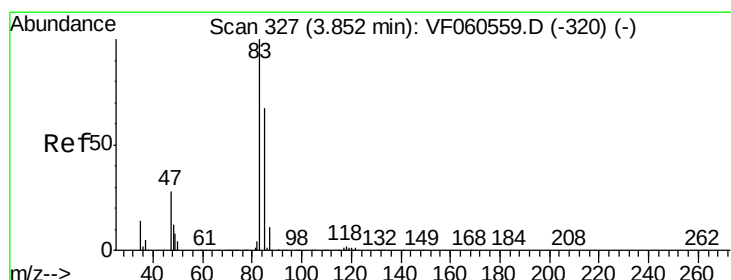
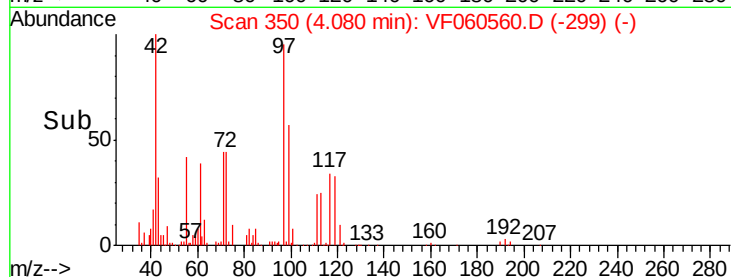
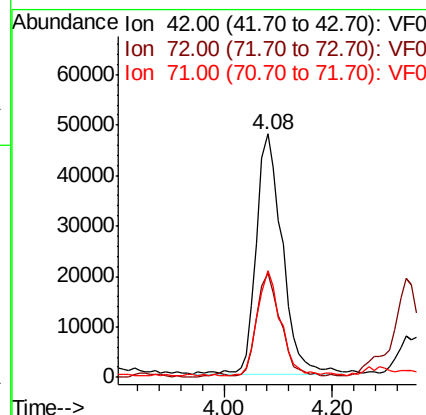
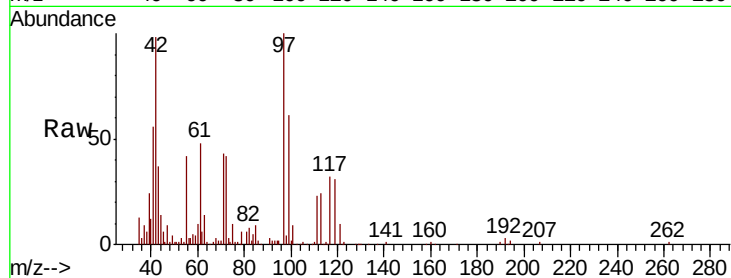
#29
Tetrahydrofuran
Concen: 462.312 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.6	31.4	47.0
71	40.3	31.8	47.6

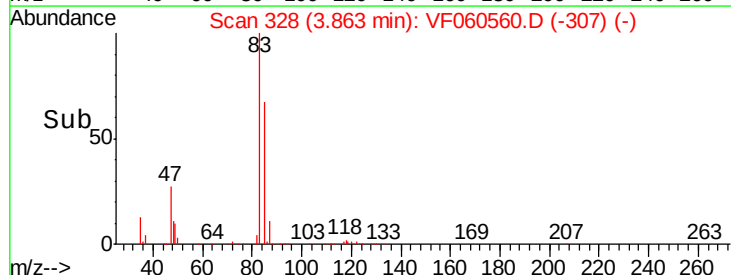
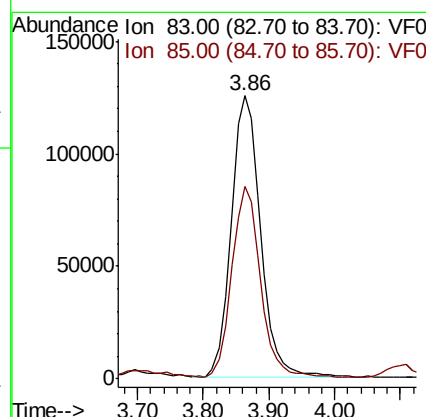
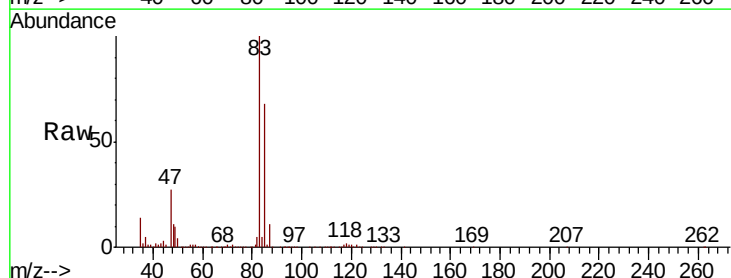
Manual Integrations
APPROVED

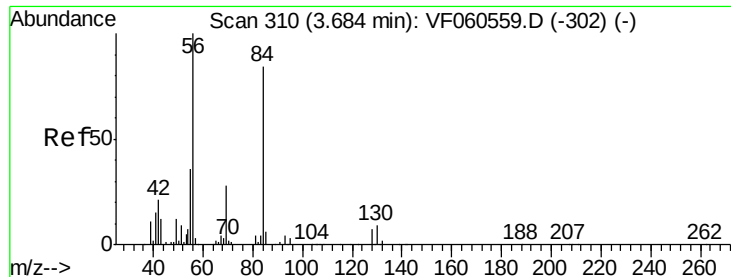
MMDadoda
11/5/2018 3:55:36 PM



#30
Chloroform
Concen: 56.759 ug/l
RT: 3.86 min Scan# 328
Delta R.T. 0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.9	53.7	80.5





#31

Cyclohexane

Concen: 74.975 ug/l

RT: 3.70 min Scan# 311

Delta R.T. 0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

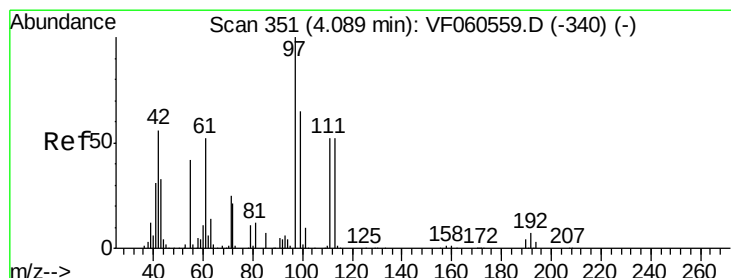
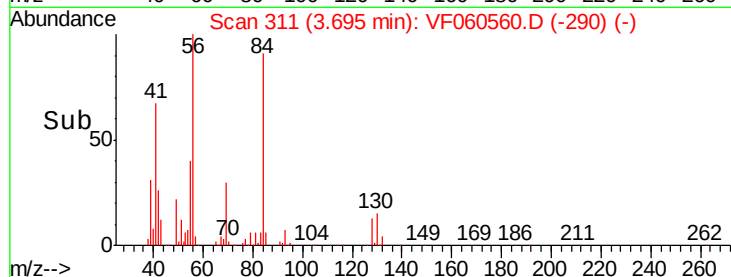
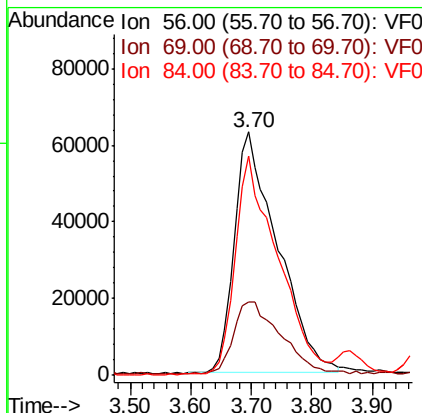
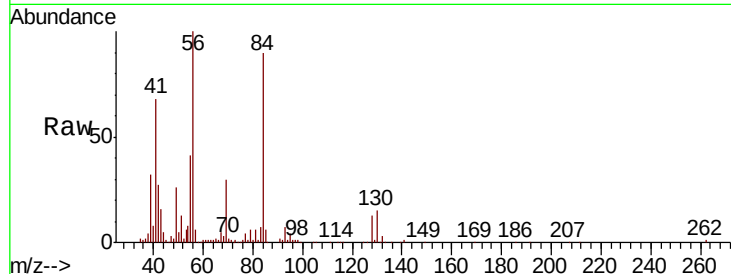
ClientSampleId :

VSTDIC075

Tot Ion:	56	Resp:	312283
Ion Ratio	Lower	Upper	
56	100		
69	30.2	23.0	34.4
84	90.0	67.1	100.7

Manual Integrations
APPROVED

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11/5/2018 3:55:36 PM



#32

1,1,1-Trichloroethane

Concen: 52.113 ug/l

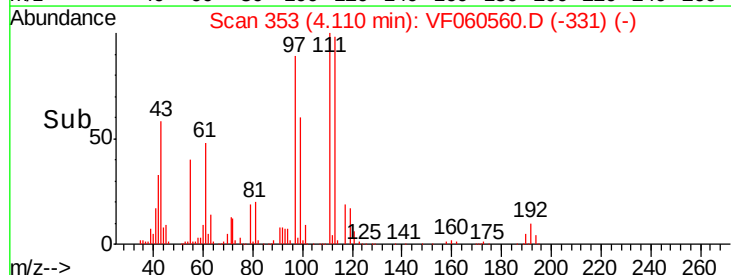
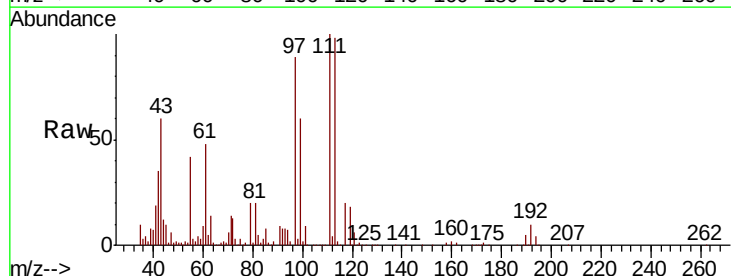
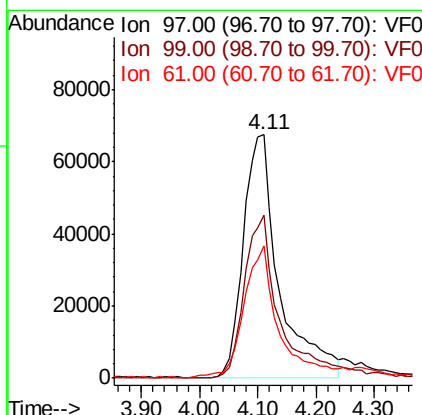
RT: 4.11 min Scan# 353

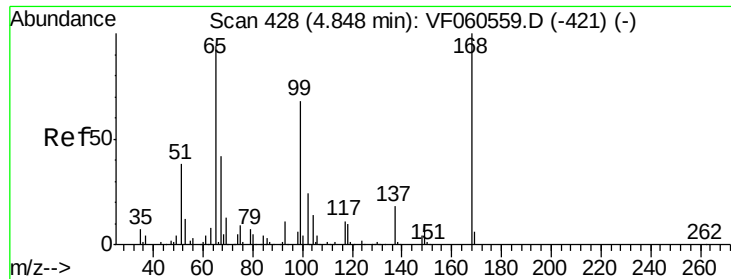
Delta R.T. 0.02 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	97	Resp:	290245
Ion Ratio	Lower	Upper	
97	100		
99	67.1	52.4	78.6
61	54.3	41.5	62.3





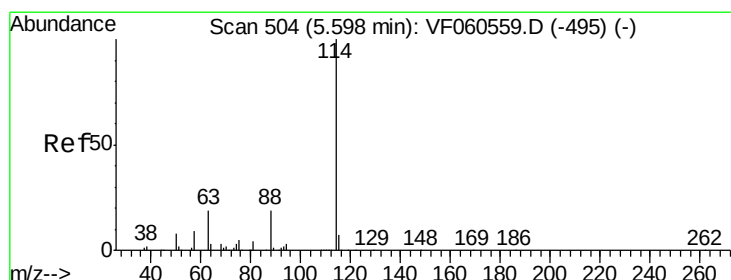
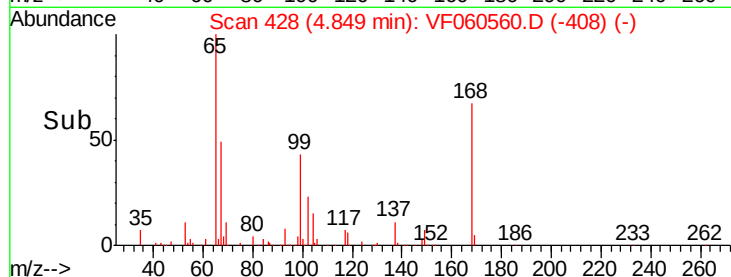
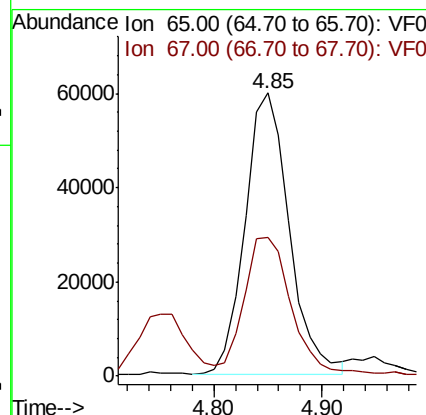
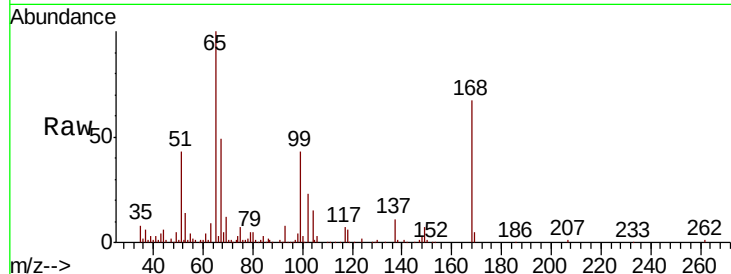
#33
 1,2-Dichloroethane-d4
 Concen: 48.758 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	101.8

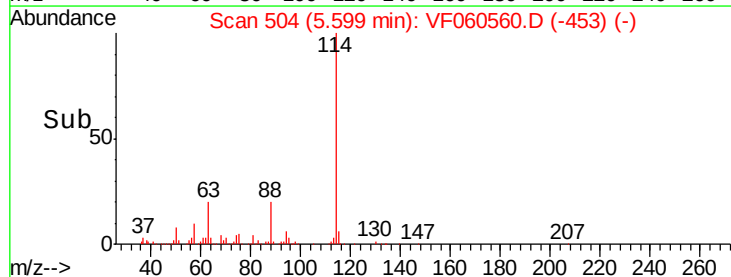
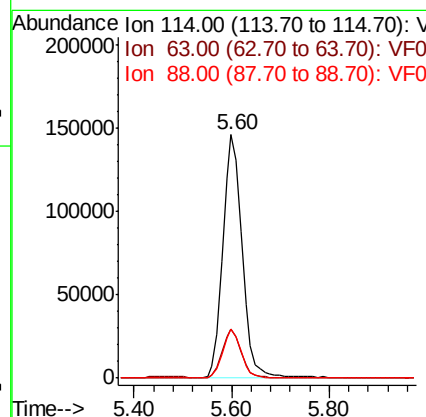
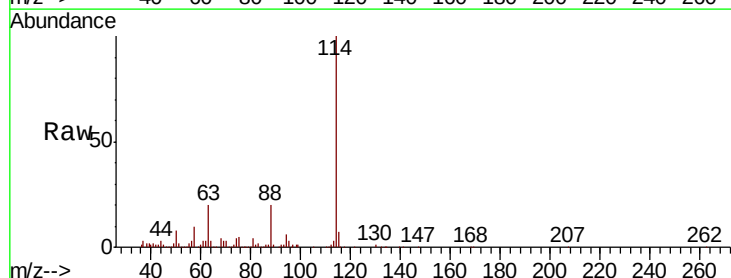
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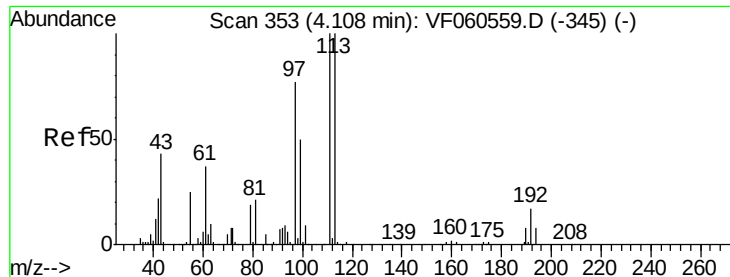
MMDadoda
 11/5/2018 3:55:36 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.0
88	20.0	0.0	38.2





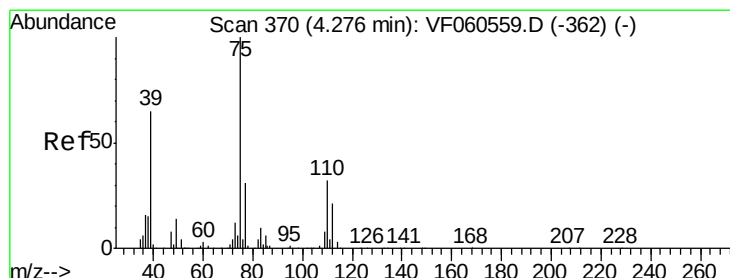
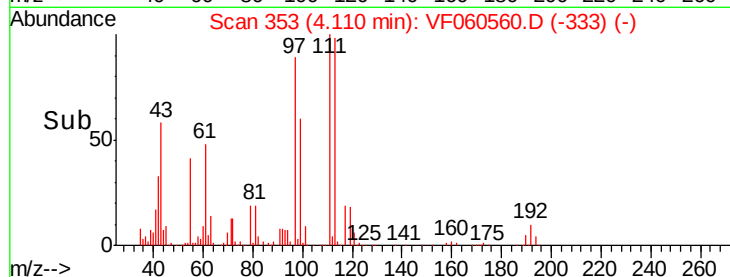
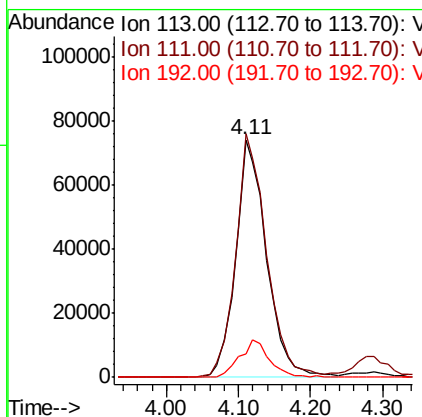
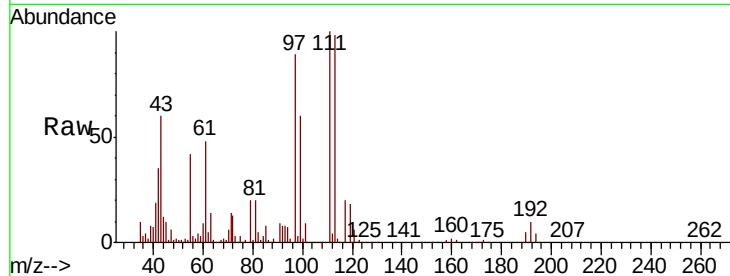
#35
 Dibromofluoromethane
 Concen: 58.034 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	79.9	119.9
192	10.0	13.3	19.9

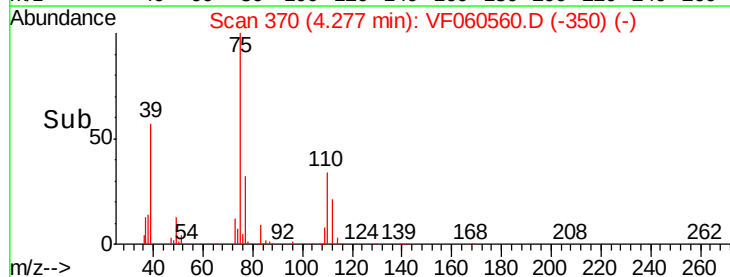
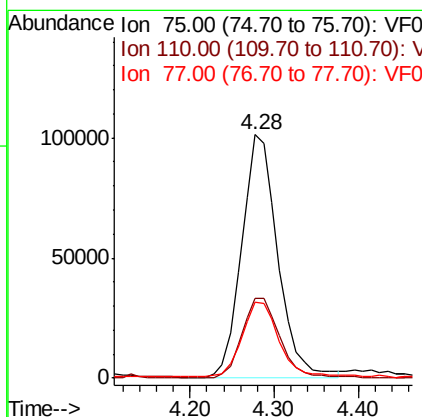
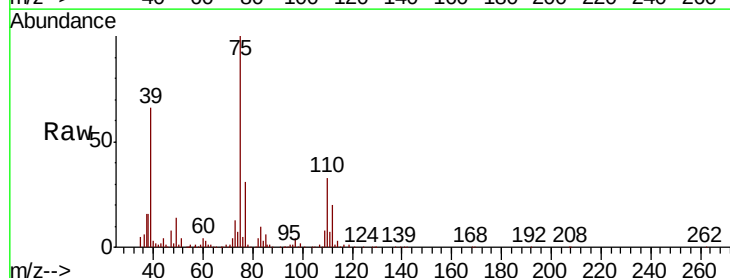
Manual Integrations
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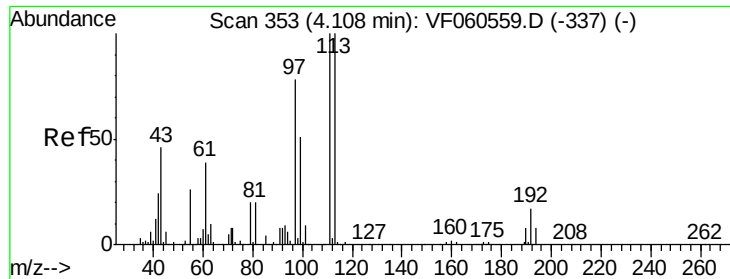
MMDadoda
 11/5/2018 3:55:36 PM



#36
 1,1-Dichloropropene
 Concen: 60.878 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. 0.00 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.2	48.6
77	31.2	25.0	37.6





#37

Ethyl Acetate

Concen: 84.088 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

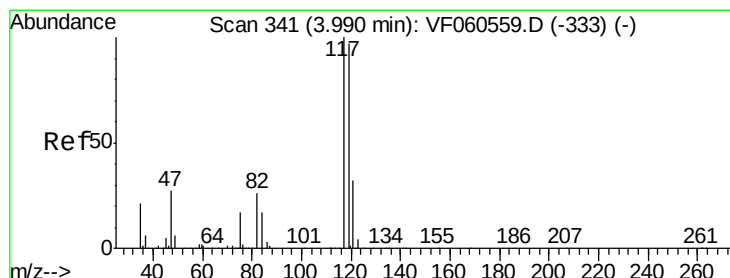
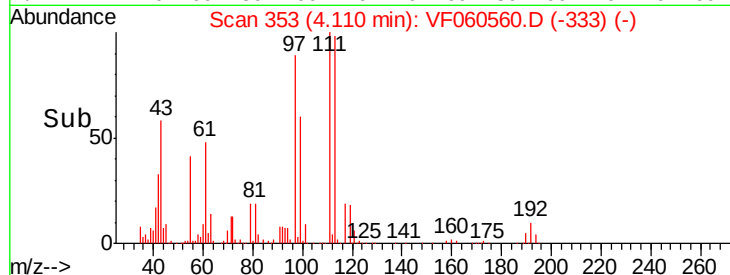
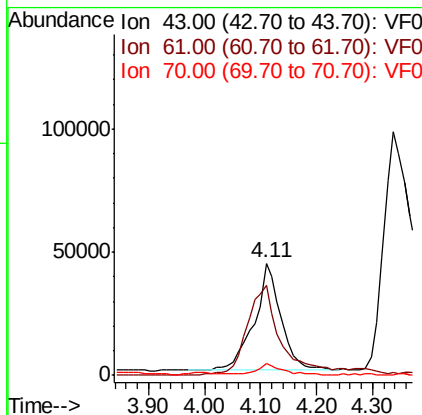
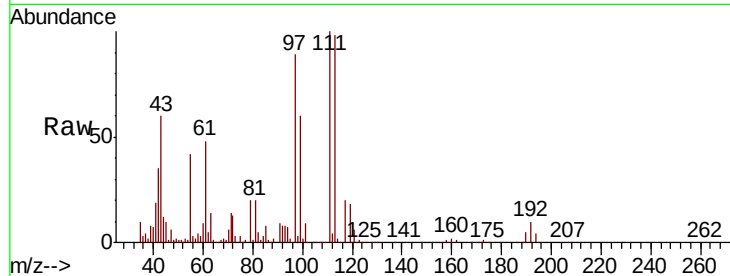
ClientSampleId :

VSTDIC075

Tot Ion	43	Resp	142829
Ion Ratio	Lower	Upper	
43	100		
61	80.4	63.4	95.2
70	10.8	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:36 PM



#38

Carbon Tetrachloride

Concen: 49.273 ug/l m

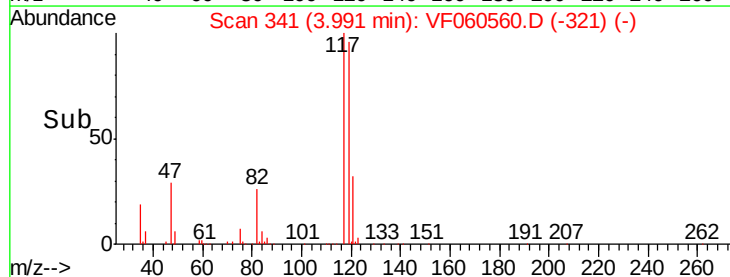
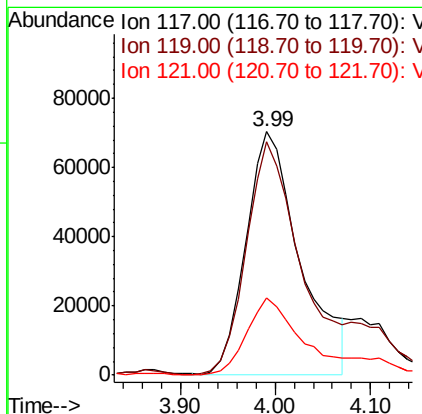
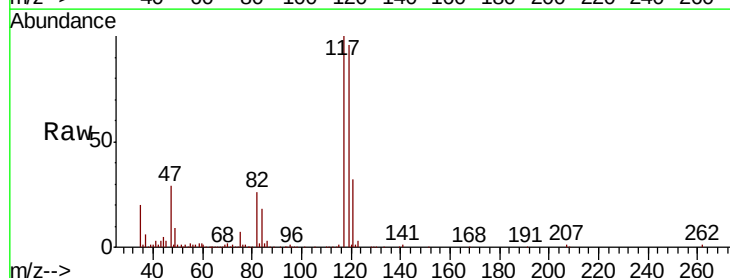
RT: 3.99 min Scan# 341

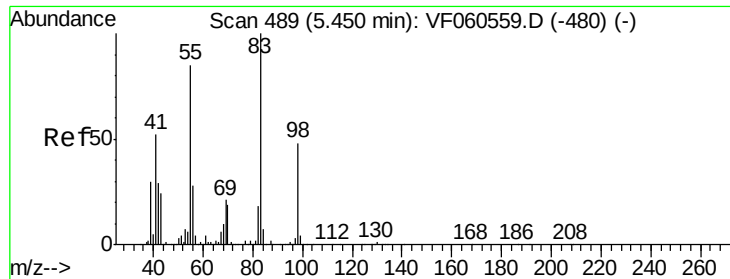
Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion	117	Resp	280017
Ion Ratio	Lower	Upper	
117	100		
119	96.0	77.8	116.6
121	31.9	25.6	38.4





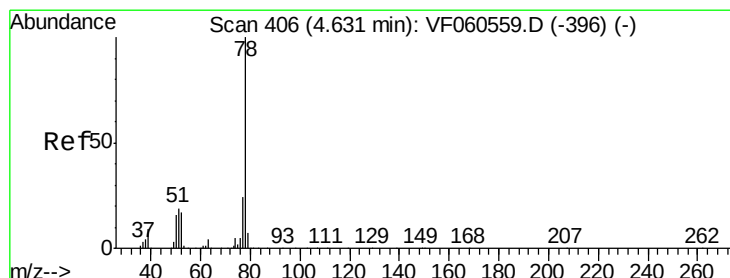
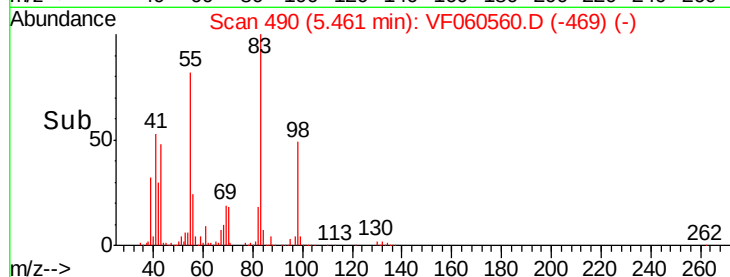
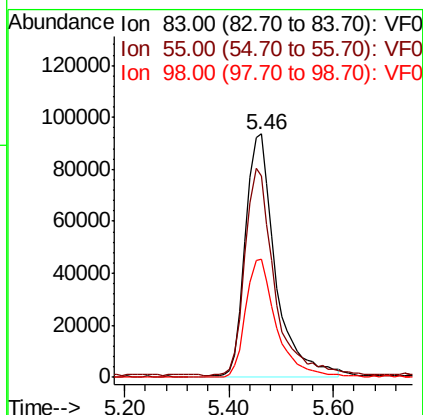
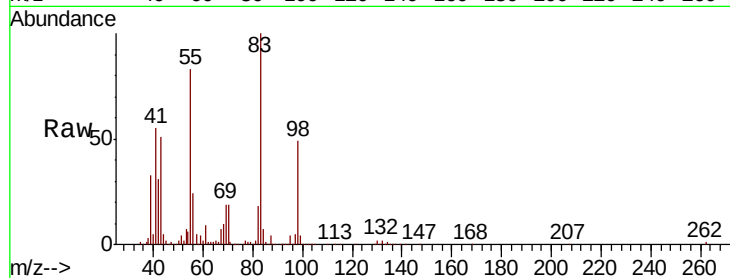
#39
Methylvlcyclohexane
Concen: 69.984 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	83	Resp	365216
Ion Ratio	Lower	Upper	
83	100		
55	82.7	69.1	103.7
98	48.5	38.6	57.8

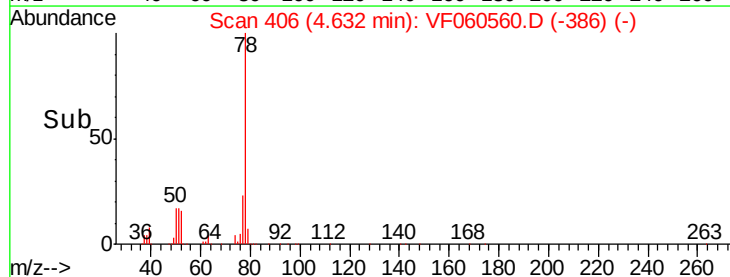
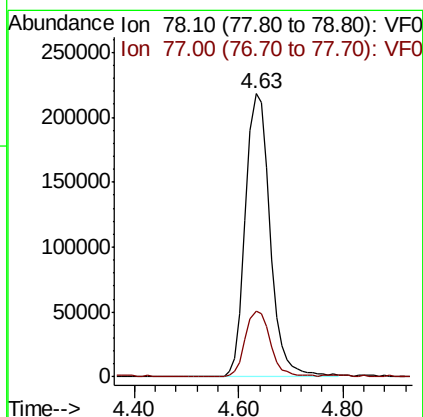
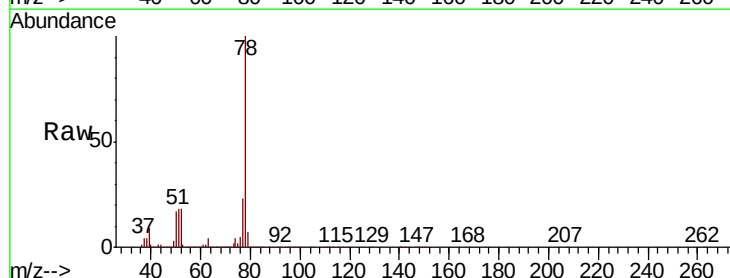
Manual Integrations
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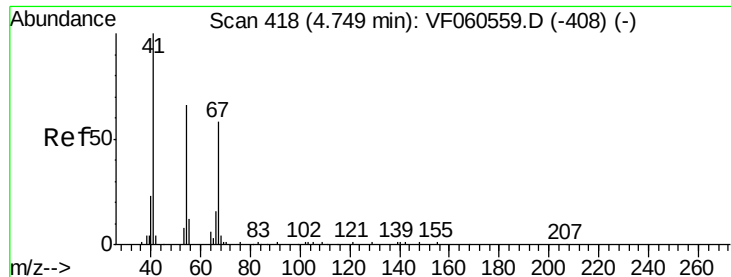
MMDadoda
11/5/2018 3:55:36 PM



#40
Benzene
Concen: 68.356 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	78	Resp	694926
Ion Ratio	Lower	Upper	
78	100		
77	23.1	19.3	28.9





#41

Methacrylonitrile

Concen: 80.337 ug/l

RT: 4.75 min Scan# 418

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

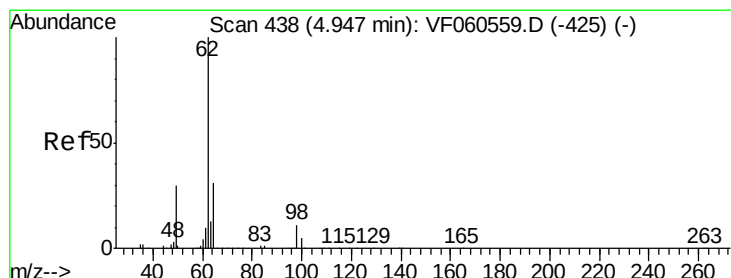
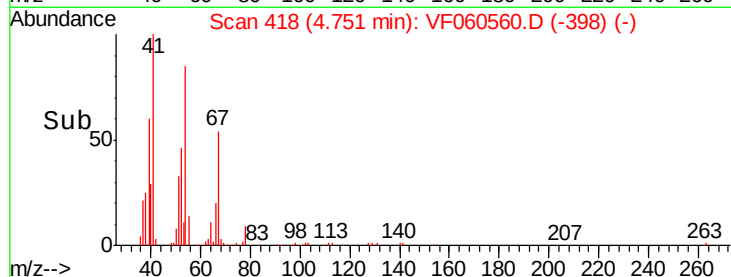
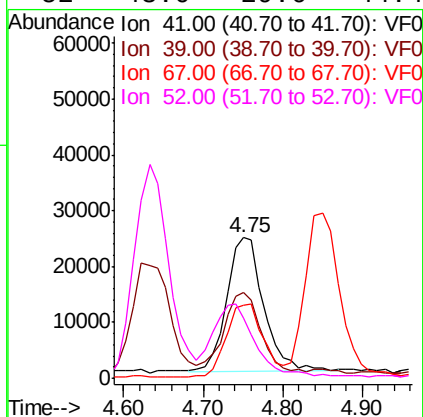
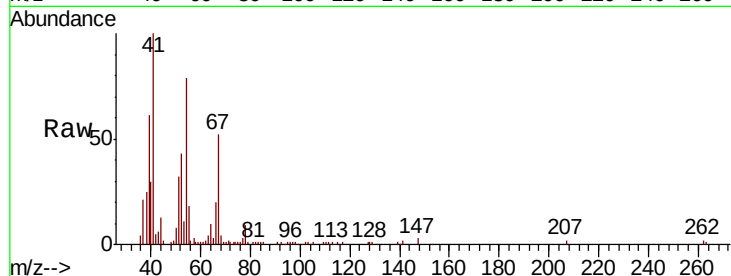
ClientSampled :

VSTDIC075

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	61.2	45.6	68.4	
67	52.1	45.3	67.9	
52	43.0	29.6	44.4	

Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:36 PM



#42

1,2-Dichloroethane

Concen: 52.122 ug/l

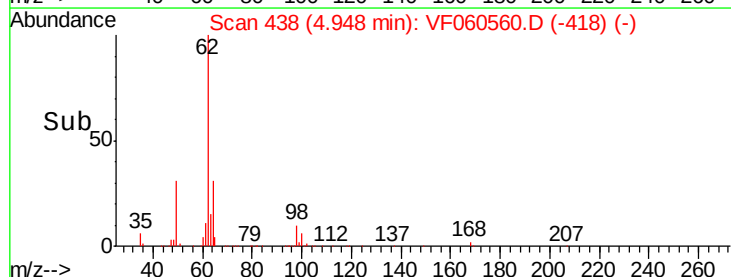
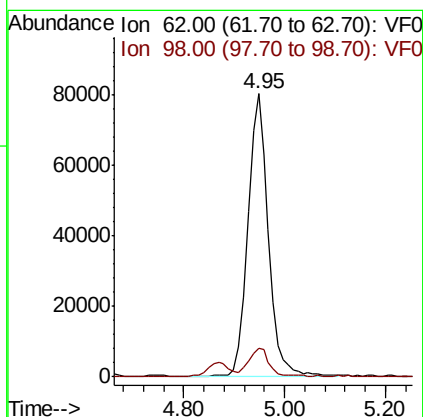
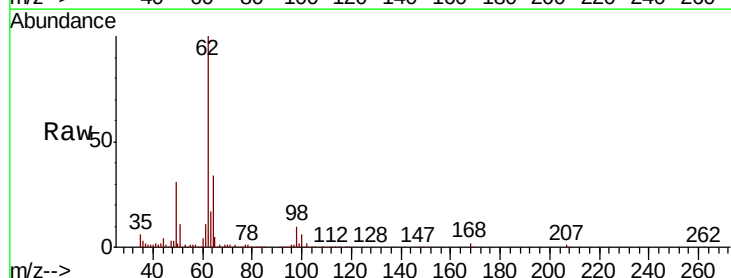
RT: 4.95 min Scan# 438

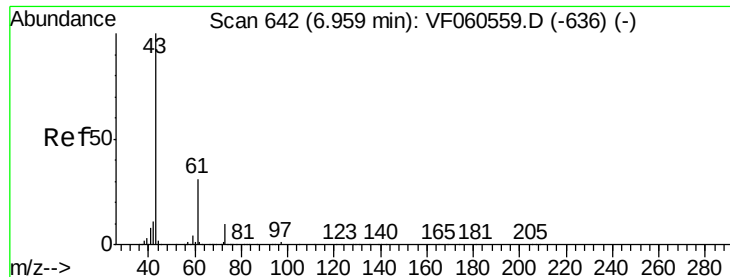
Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.2	0.0	22.4	





#43

Isopropyl Acetate

Concen: 97.155 ug/l

RT: 6.96 min Scan# 642

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

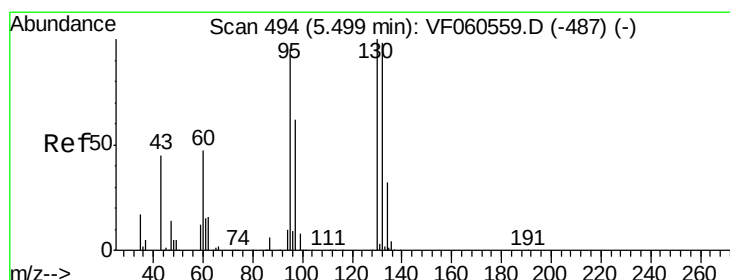
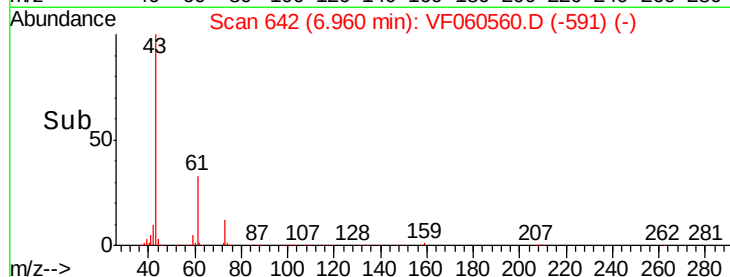
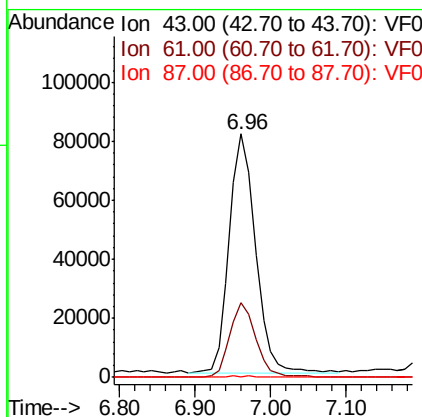
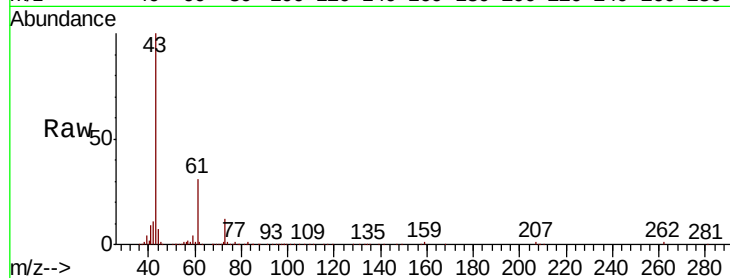
ClientSampleId :

VSTDIC075

Tot Ion:	43	Resp:	196887
Ion	Ratio	Lower	Upper
43	100		
61	30.7	24.2	36.2
87	0.3	0.2	0.4

Manual Integrations
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#44

Trichloroethene

Concen: 68.144 ug/l

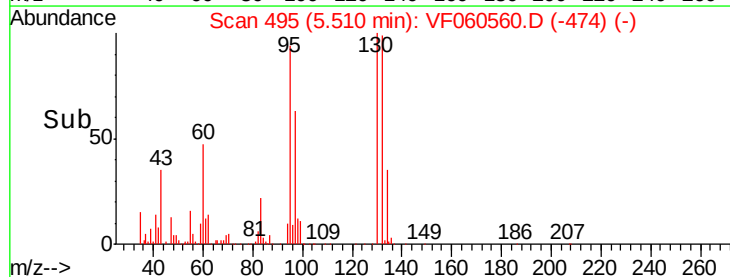
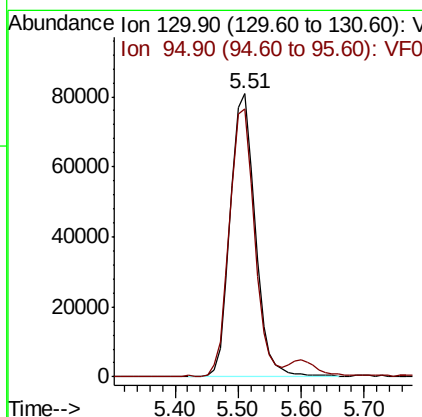
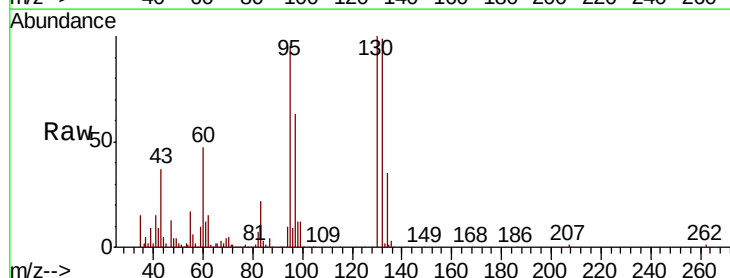
RT: 5.51 min Scan# 495

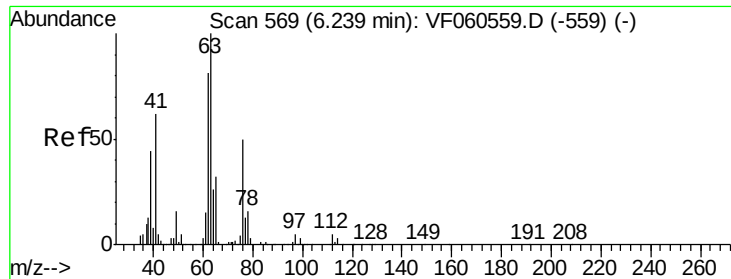
Delta R.T. 0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	130	Resp:	222672
Ion	Ratio	Lower	Upper
130	100		
95	94.5	0.0	191.0





#45

1,2-Dichloropropane

Concen: 76.800 ug/l

RT: 6.24 min Scan# 569

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 63 Resp: 195048

Ion Ratio Lower Upper

63 100

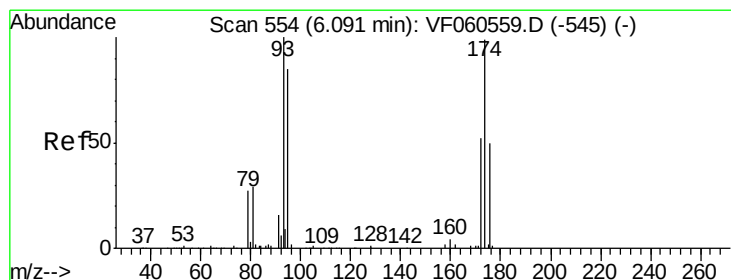
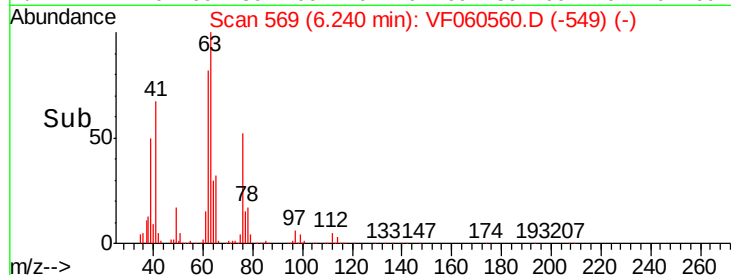
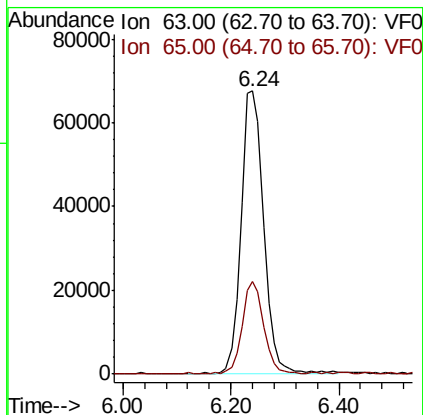
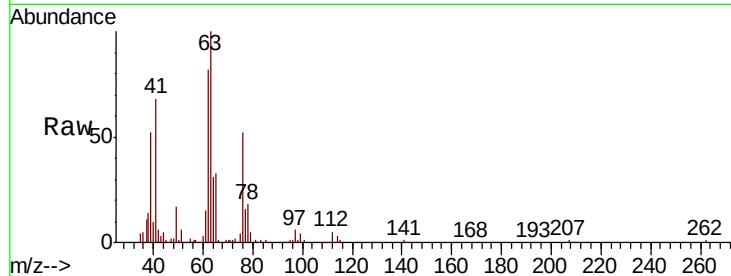
65 32.7 25.4 38.0

Manual Integrations

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11/5/2018 3:55:36 PM



#46

Dibromomethane

Concen: 63.402 ug/l

RT: 6.09 min Scan# 554

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

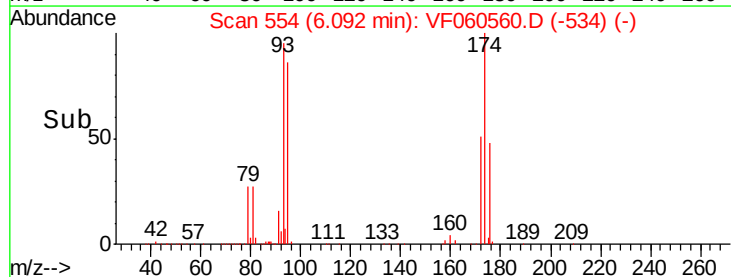
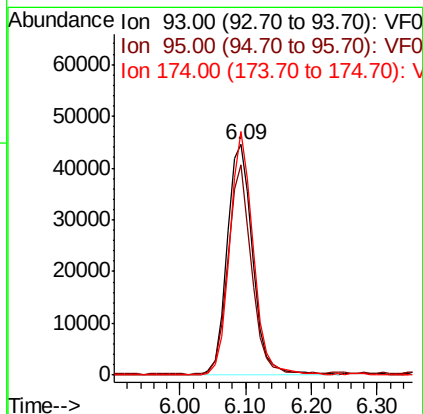
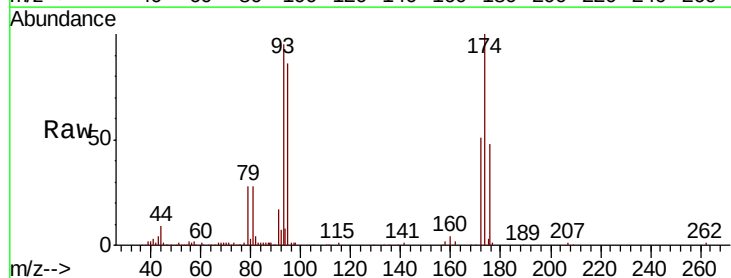
Tgt Ion: 93 Resp: 121480

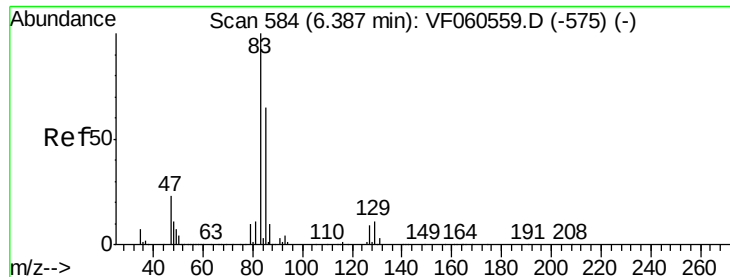
Ion Ratio Lower Upper

93 100

95 91.3 68.6 102.8

174 105.5 79.0 118.4





#47

Bromodichloromethane

Concen: 60.606 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

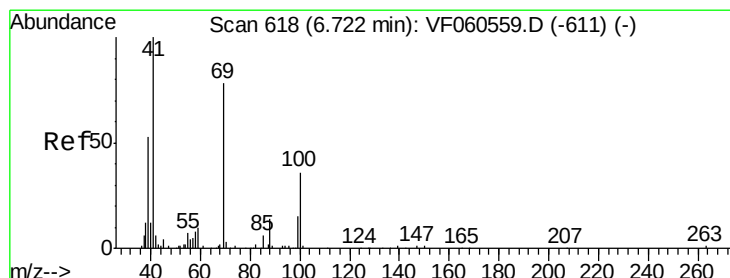
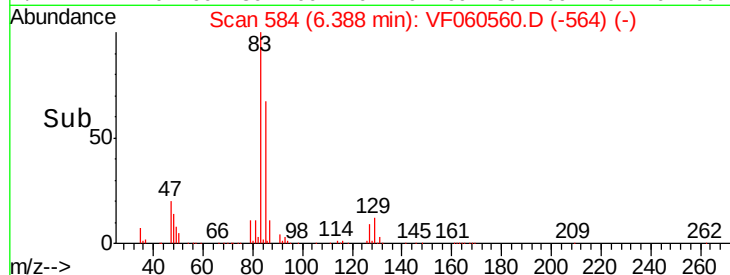
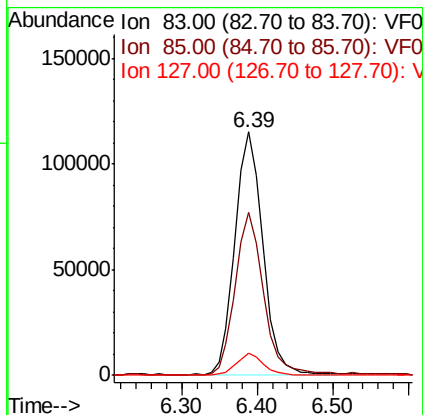
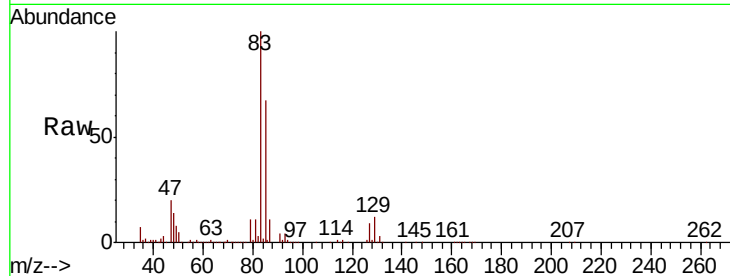
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	294222
Ion	Ratio	Lower	Upper
83	100		
85	67.1	51.8	77.6
127	8.9	7.0	10.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 86.871 ug/l

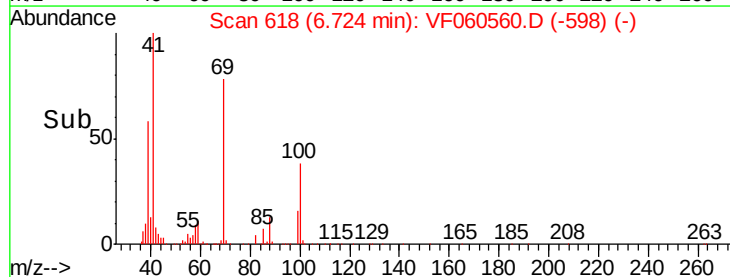
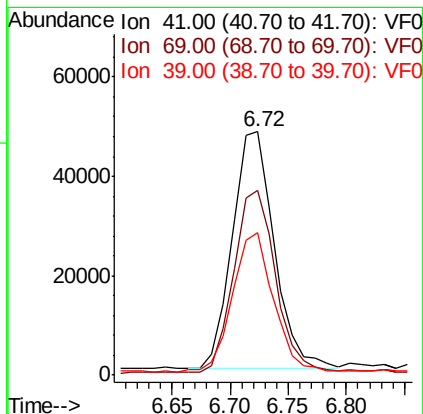
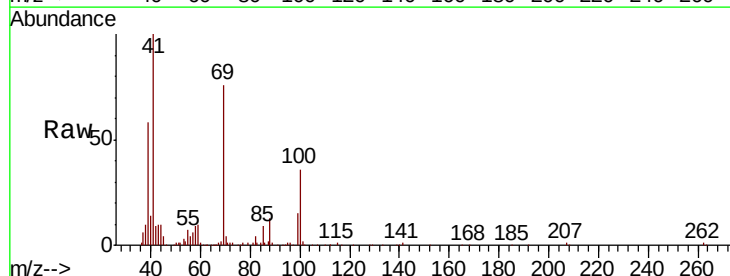
RT: 6.72 min Scan# 618

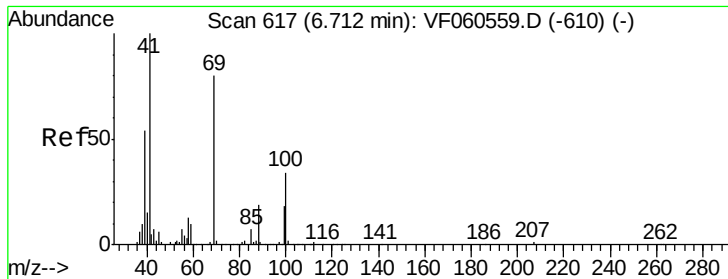
Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	41	Resp:	118980
Ion	Ratio	Lower	Upper
41	100		
69	75.6	61.1	91.7
39	58.3	43.0	64.6





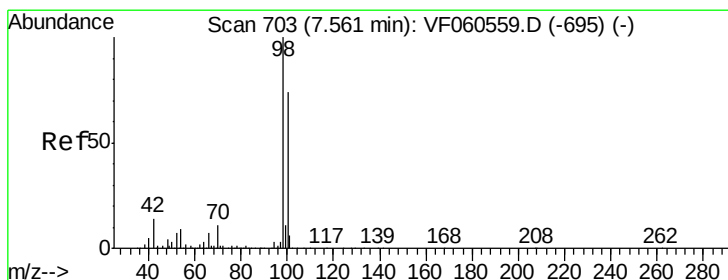
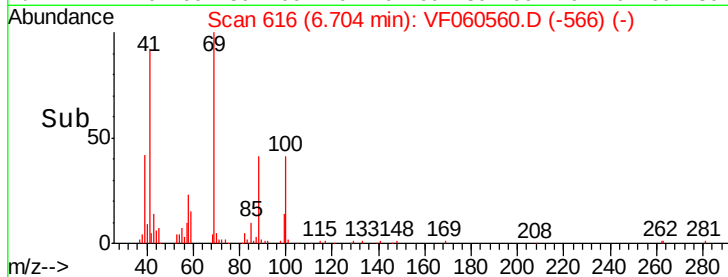
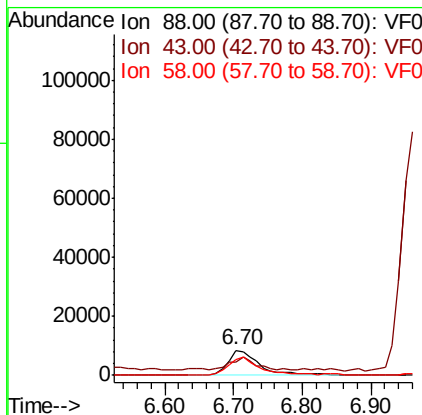
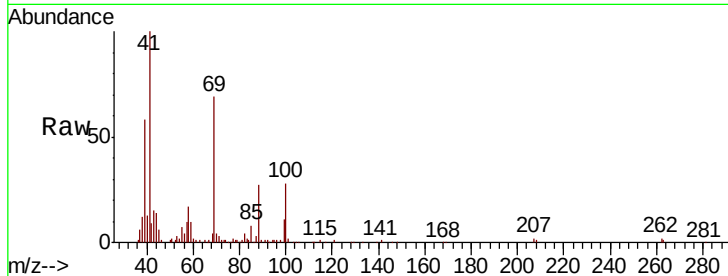
#49
1,4-Dioxane
Concen: 2012.803 ug/l
RT: 6.70 min Scan# 616
Delta R.T. -0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
88	100	26897		
43	54.7		61.2	91.8#
58	60.9		56.9	85.3

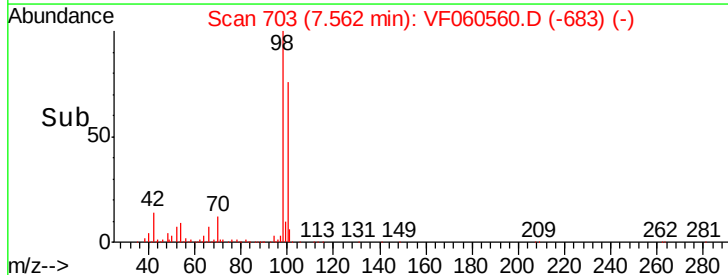
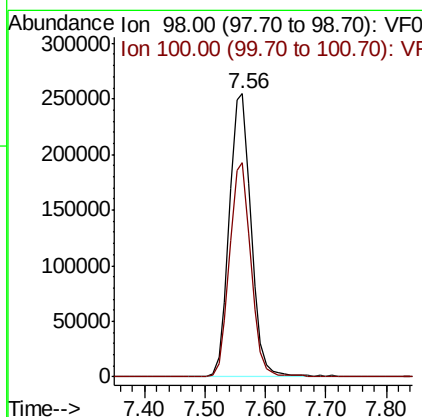
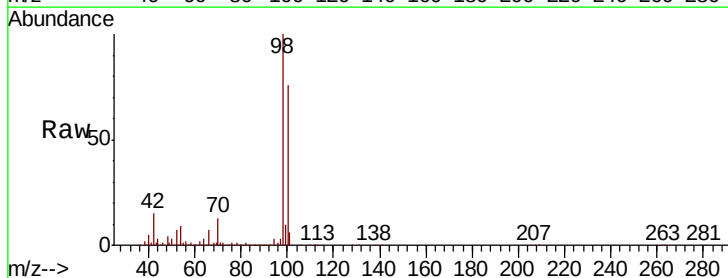
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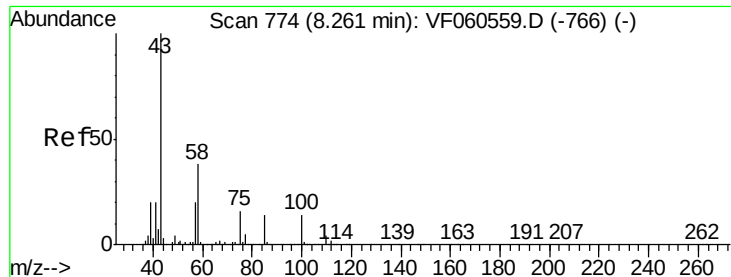
MMDadoda
11/5/2018 3:55:36 PM



#50
Toluene-d8
Concen: 68.129 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	640303		
100	75.6		59.4	89.2





#51

4-Methyl-2-Pentanone

Concen: 416.011 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 607681

Ion Ratio Lower Upper

43 100

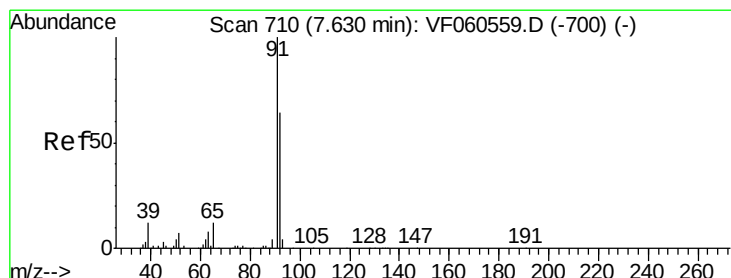
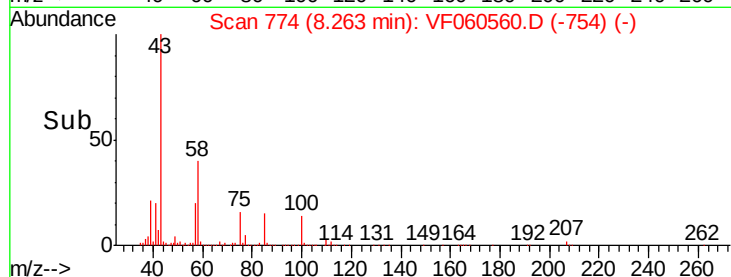
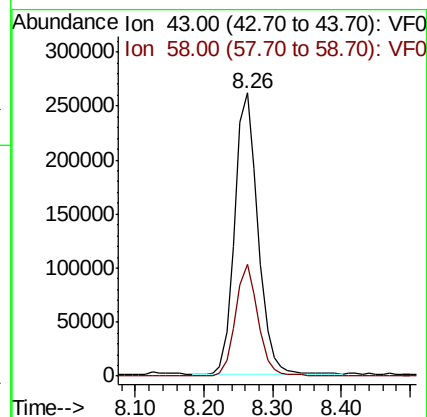
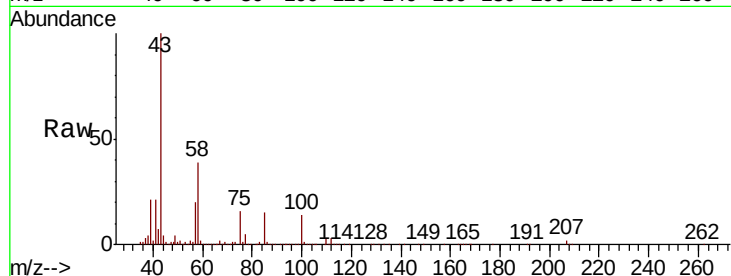
58 39.4 30.1 45.1

Manual Integrations

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#52

Toluene

Concen: 72.383 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060560.D

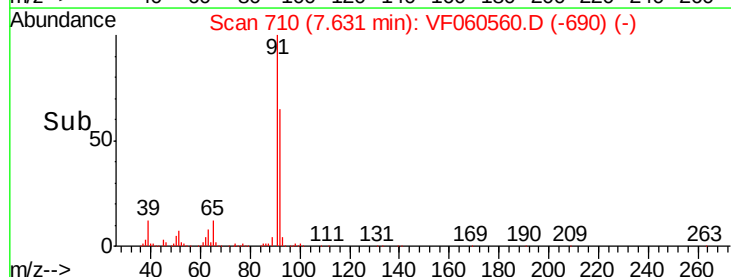
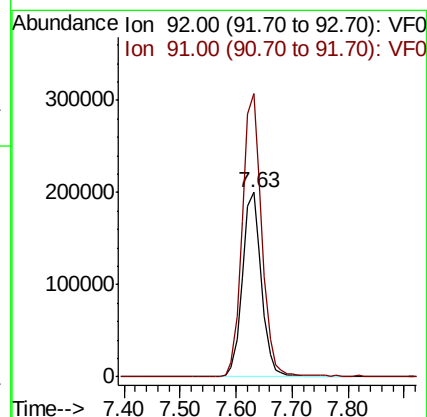
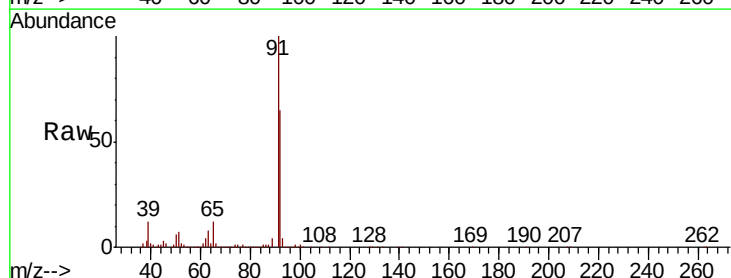
Acq: 2 Nov 2018 12:59

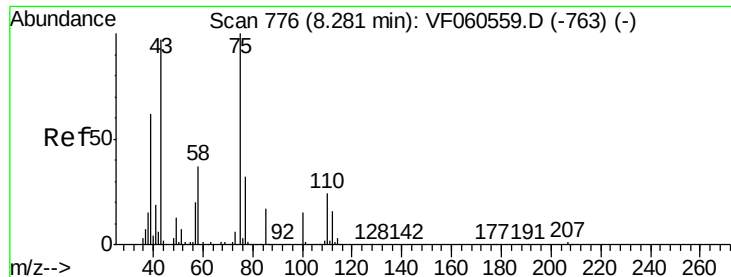
Tgt Ion: 92 Resp: 472241

Ion Ratio Lower Upper

92 100

91 153.3 124.5 186.7





#53

t-1,3-Dichloropropene

Concen: 62.750 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 75 Resp: 239756

Ion Ratio Lower Upper

75 100

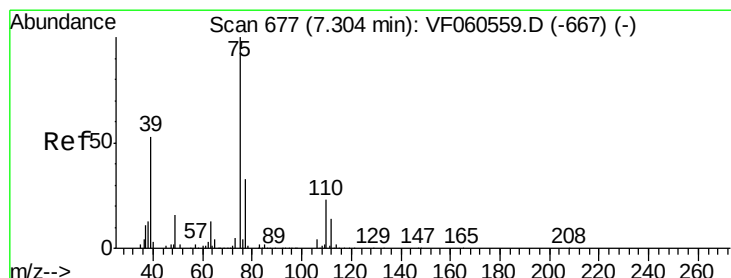
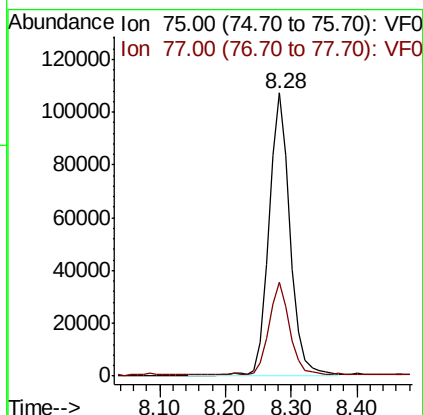
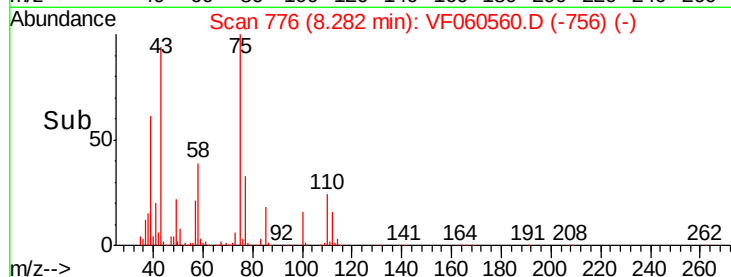
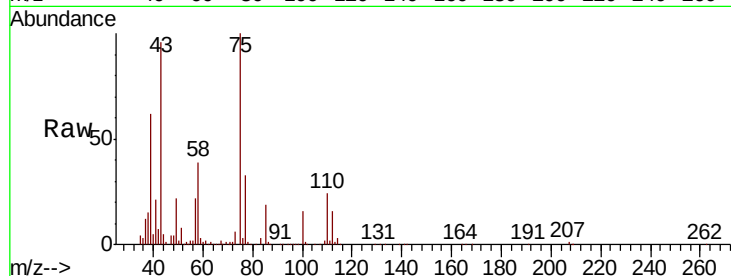
77 33.4 25.7 38.5

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 71.415 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

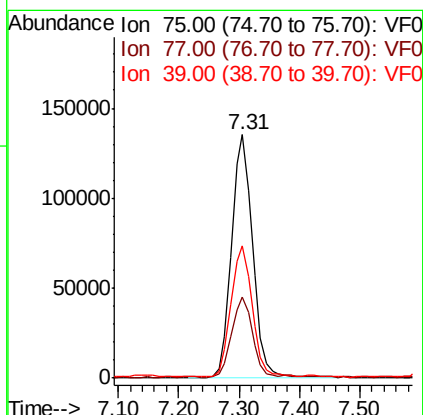
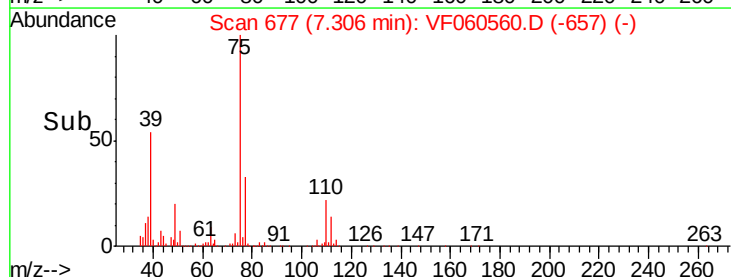
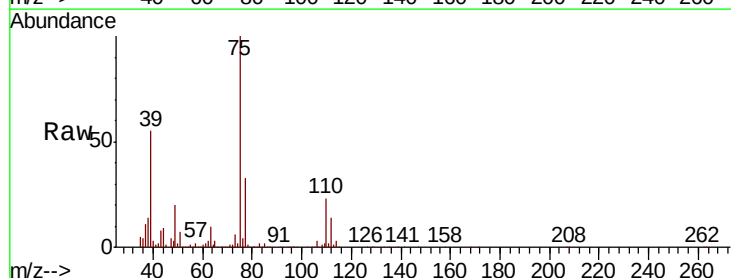
Tgt Ion: 75 Resp: 330637

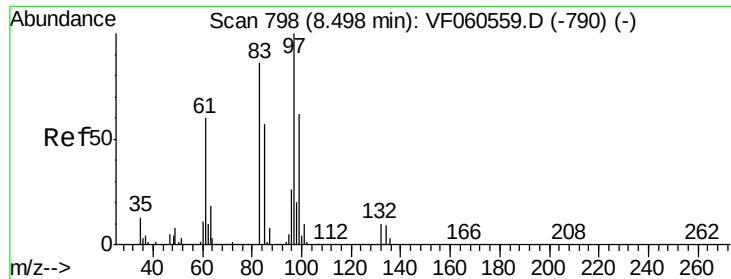
Ion Ratio Lower Upper

75 100

77 33.3 26.7 40.1

39 54.5 43.0 64.4





#55

1,1,2-Trichloroethane

Concen: 74.567 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

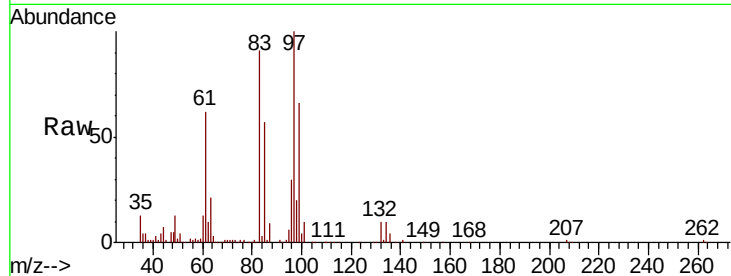
ClientSampleId :

VSTDIC075

Tot Ion:	97	Resp:	142631
Ion	Ratio	Lower	Upper
97	100		
83	90.6	69.4	104.0
85	57.4	46.6	69.8
99	66.4	50.0	75.0

Manual Integrations
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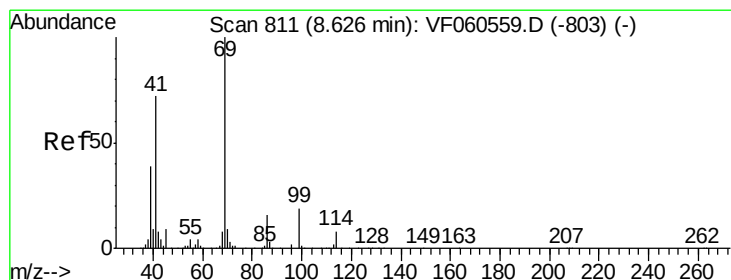
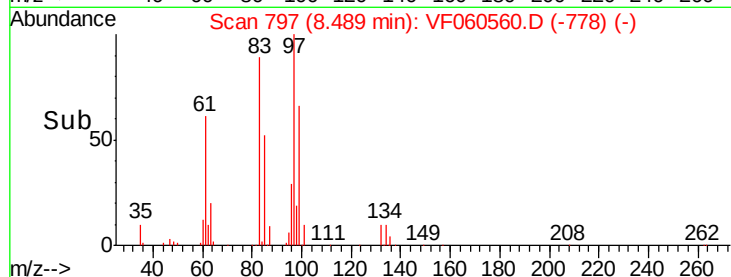
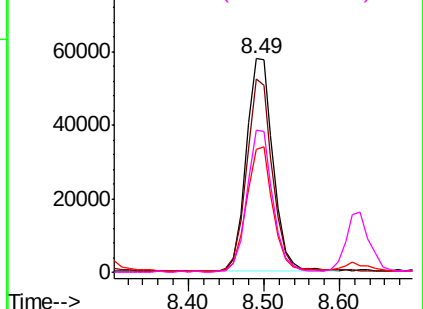


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 84.843 ug/l

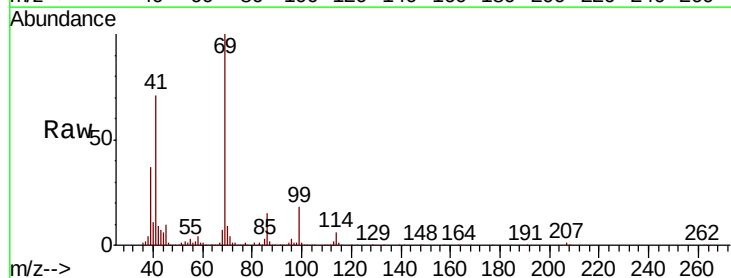
RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

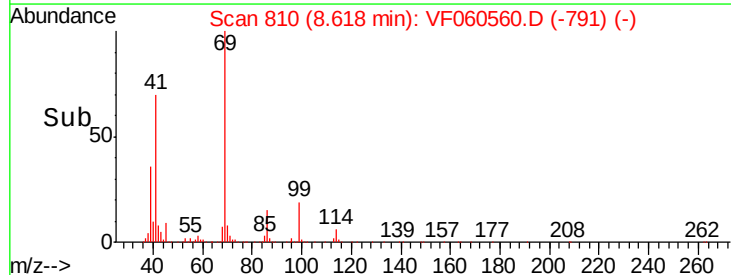
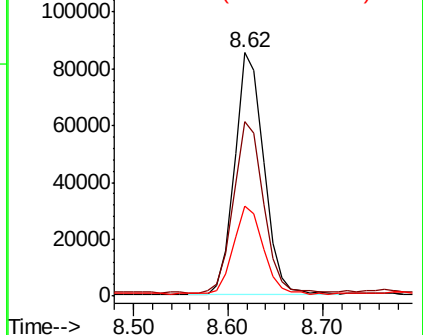
Tgt Ion:	69	Resp:	183745
Ion	Ratio	Lower	Upper
69	100		
41	71.5	59.2	88.8
39	37.0	32.3	48.5

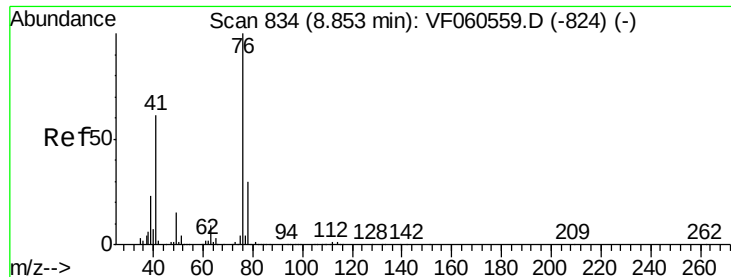


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 77.373 ug/l

RT: 8.85 min Scan# 834

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 76 Resp: 250677

Ion Ratio Lower Upper

76 100

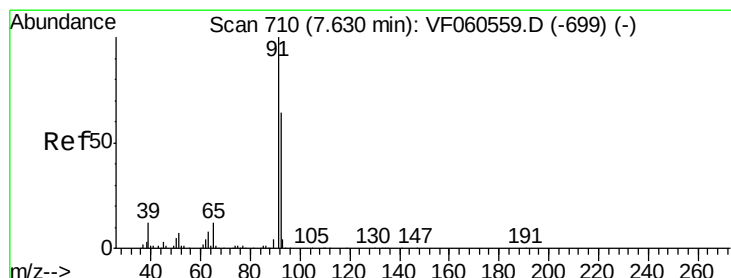
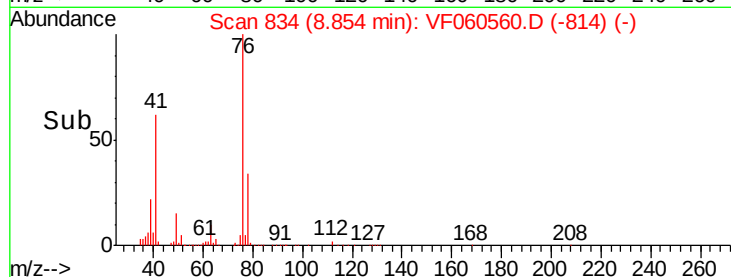
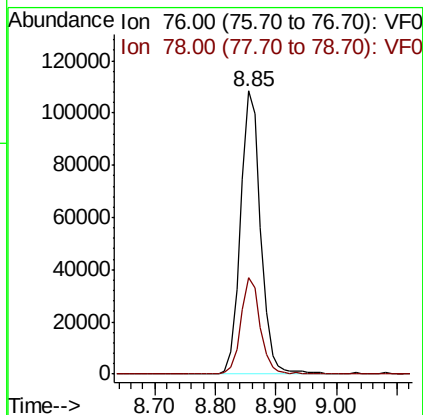
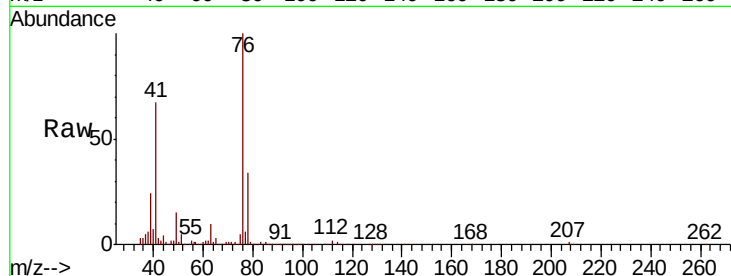
78 34.3 24.2 36.4

Manual Integrations

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11/5/2018 3:55:36 PM



#58

2-Chloroethyl Vinyl ether

Concen: 278.432 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060560.D

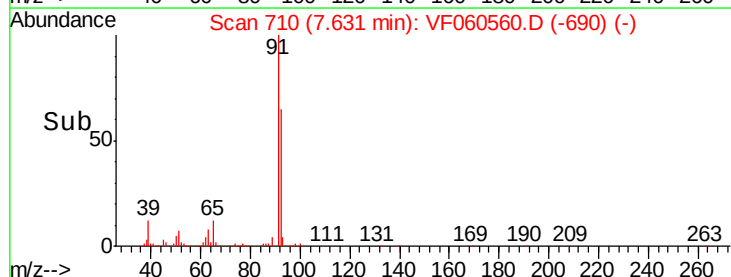
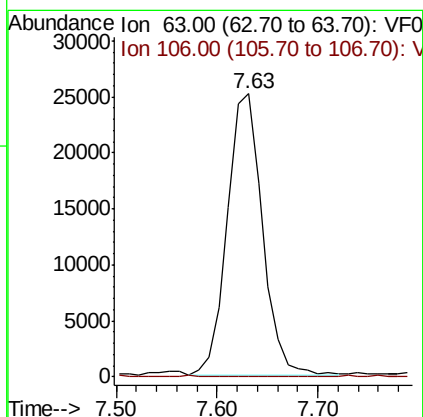
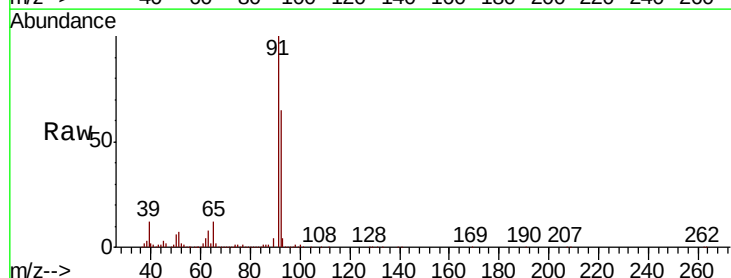
Acq: 2 Nov 2018 12:59

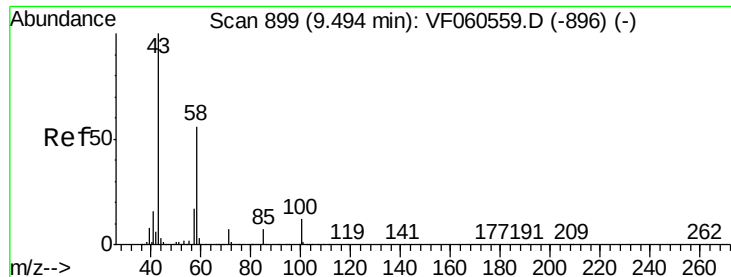
Tgt Ion: 63 Resp: 60595

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





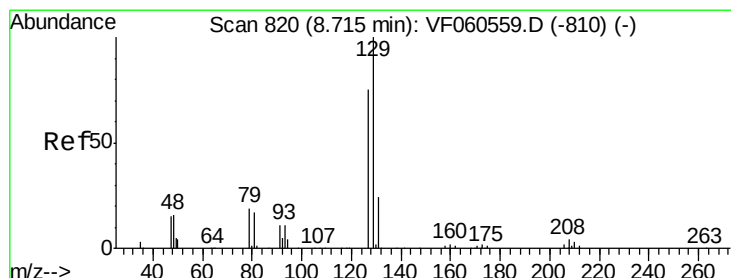
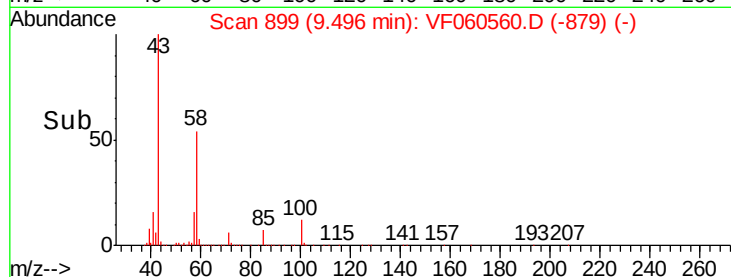
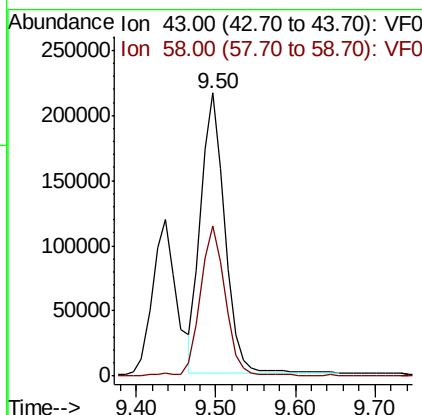
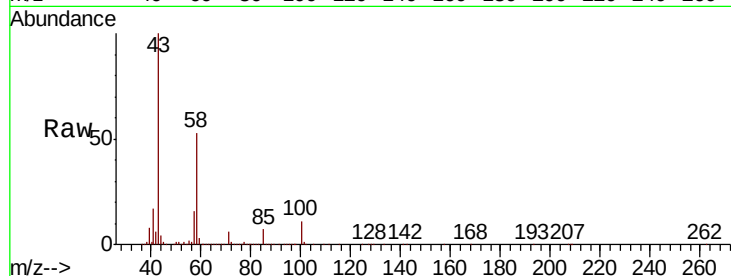
#59
2-Hexanone
Concen: 424.136 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 43 Resp: 448748
Ion Ratio Lower Upper
43 100
58 53.2 26.1 78.3

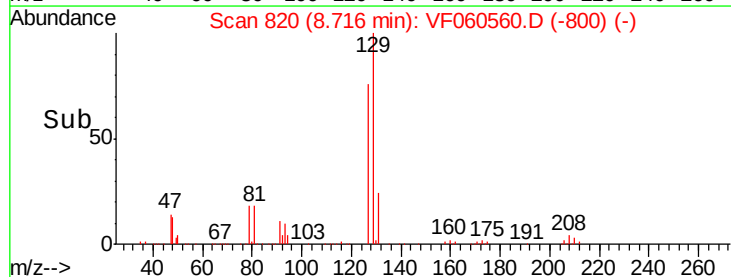
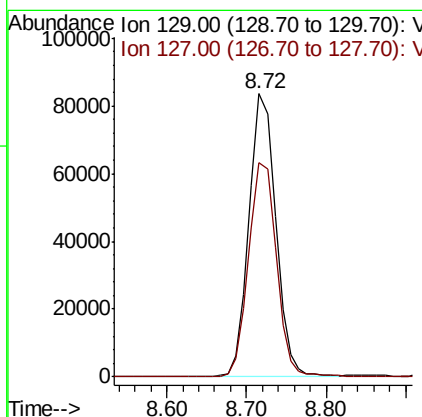
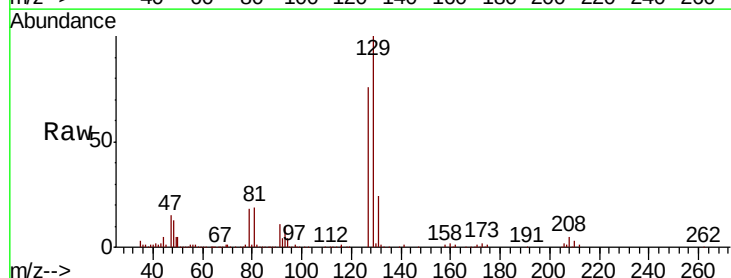
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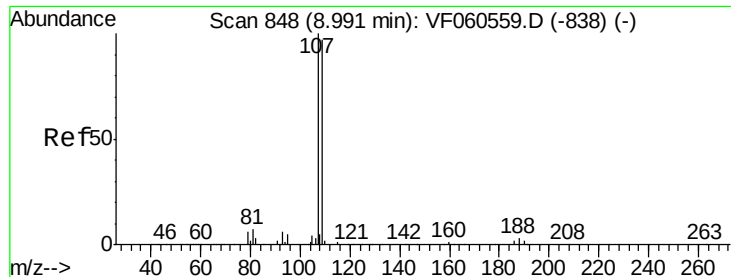
MMDadoda
11/5/2018 3:55:36 PM



#60
Dibromochloromethane
Concen: 64.050 ug/l
RT: 8.72 min Scan# 820
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion: 129 Resp: 194901
Ion Ratio Lower Upper
129 100
127 75.5 37.8 113.3





#61

1,2-Dibromoethane

Concen: 69.618 ug/l

RT: 8.99 min Scan# 848

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:107 Resp: 153488

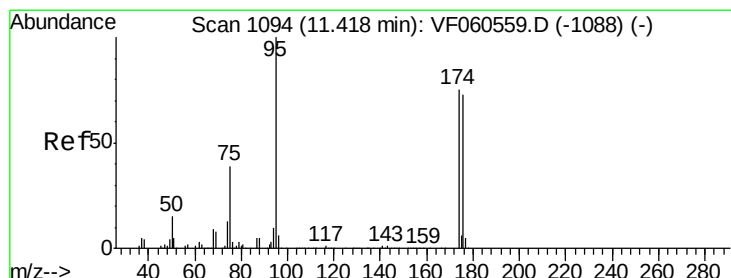
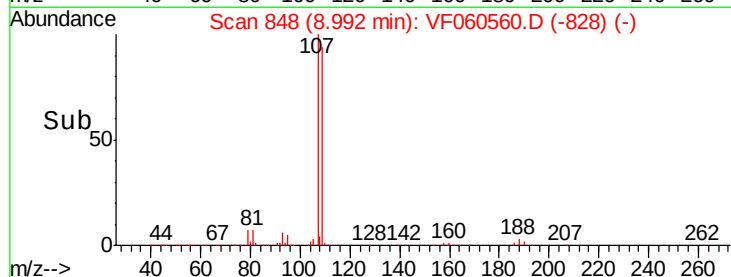
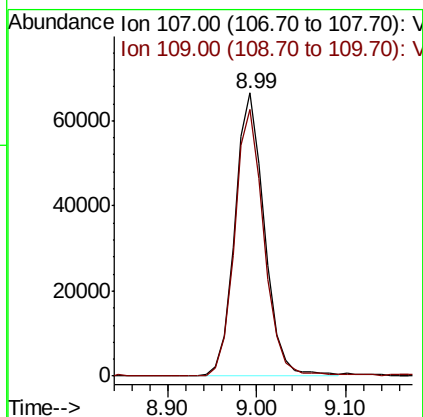
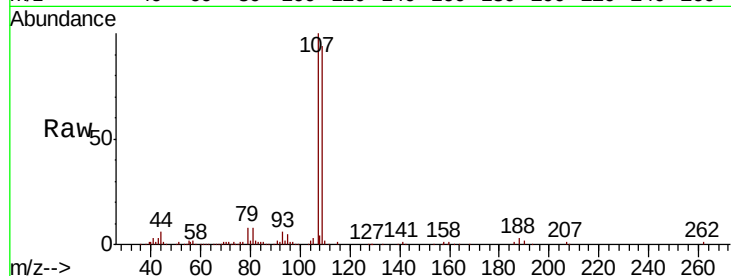
Ion Ratio Lower Upper

107 100

109 94.2 77.5 116.3

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 62.905 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

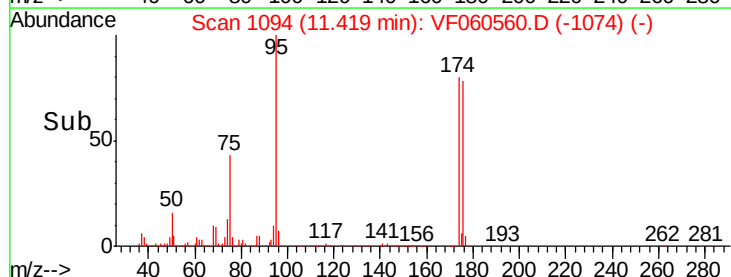
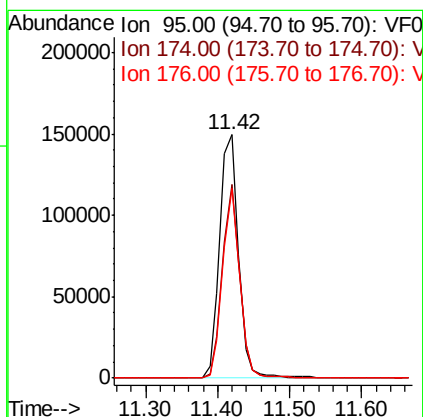
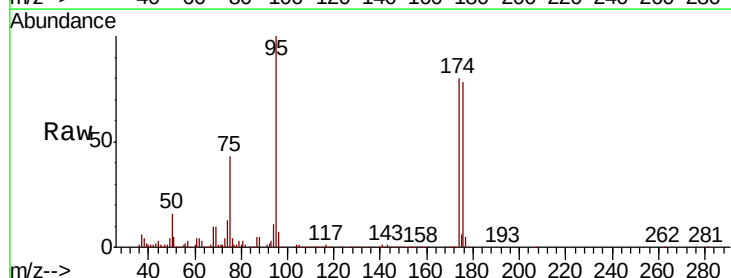
Tgt Ion: 95 Resp: 270285

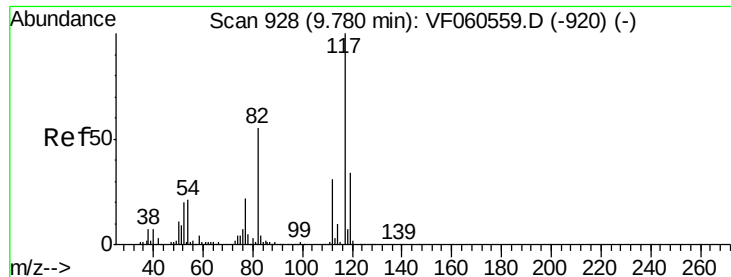
Ion Ratio Lower Upper

95 100

174 79.7 0.0 149.0

176 78.1 0.0 145.6





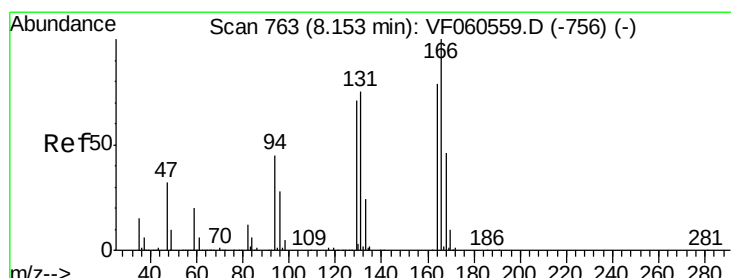
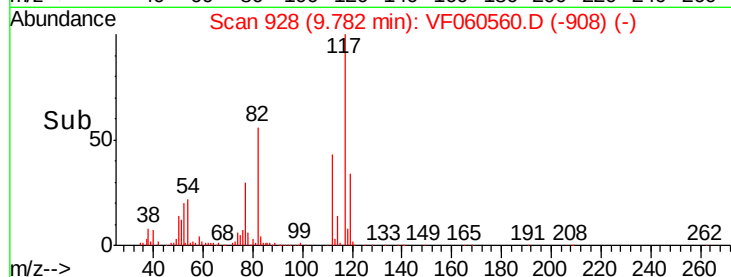
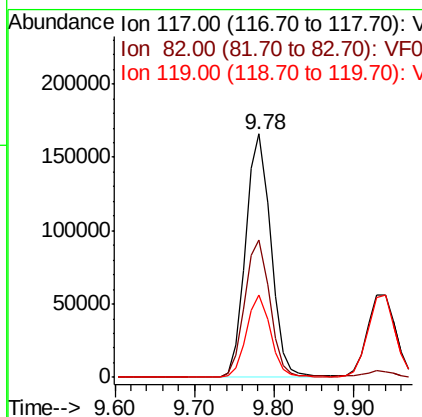
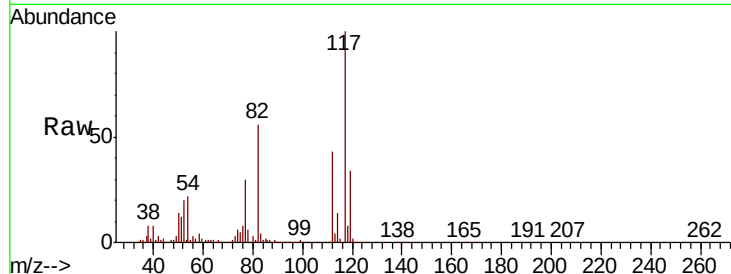
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
117	100	362923		
82	56.2		43.9	65.9
119	33.6		27.4	41.0

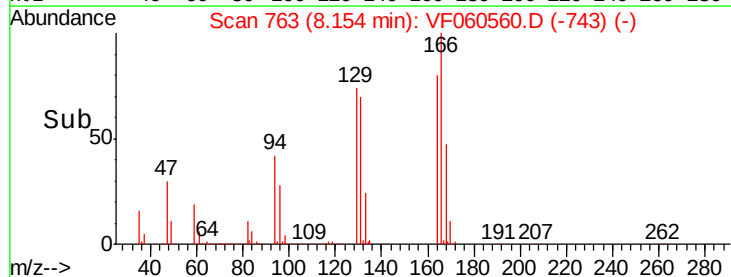
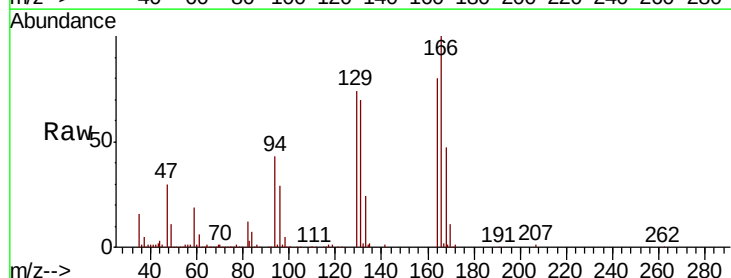
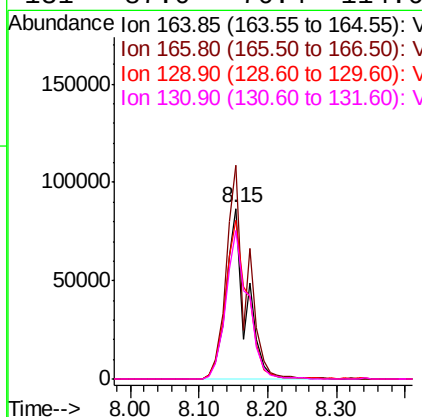
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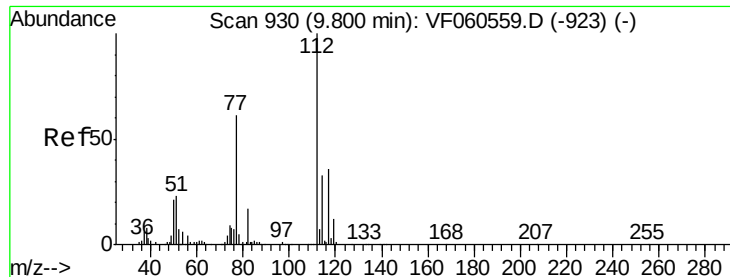
MMDadoda
11/5/2018 3:55:36 PM



#64
Tetrachloroethene
Concen: 57.002 ug/l
RT: 8.15 min Scan# 763
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	172149		
166	125.2		101.5	152.3
129	92.7		72.5	108.7
131	87.0		76.4	114.6





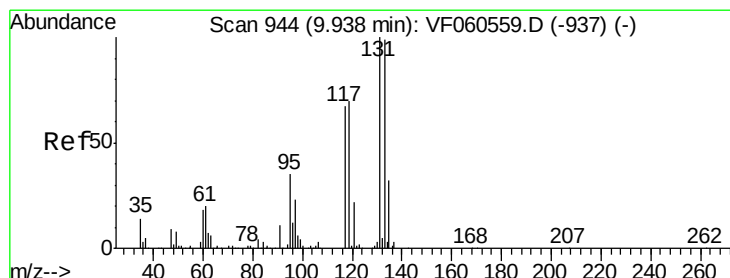
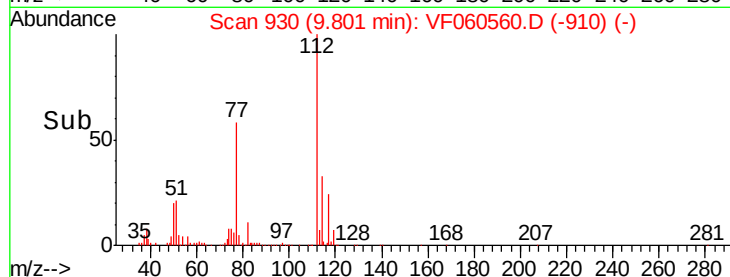
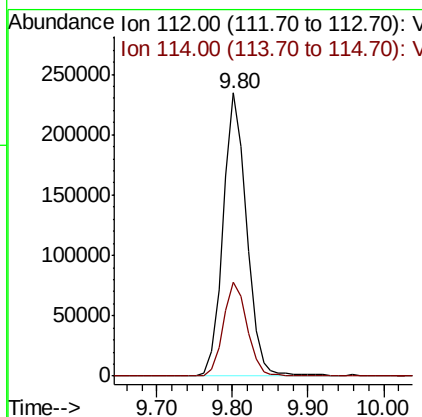
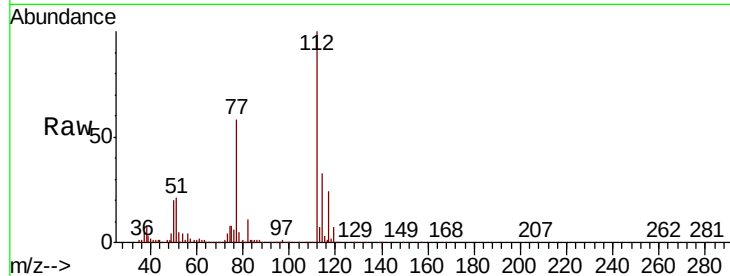
#65
Chlorobenzene
Concen: 69.747 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.1	26.6	40.0

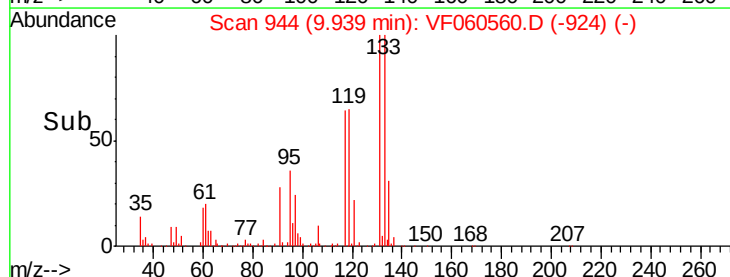
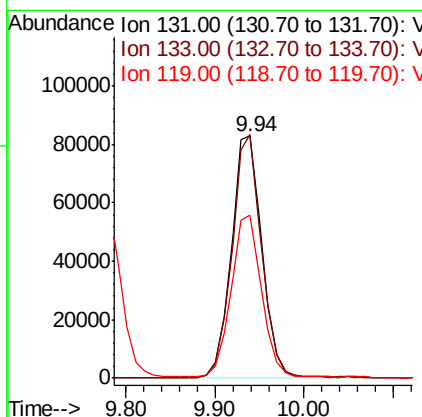
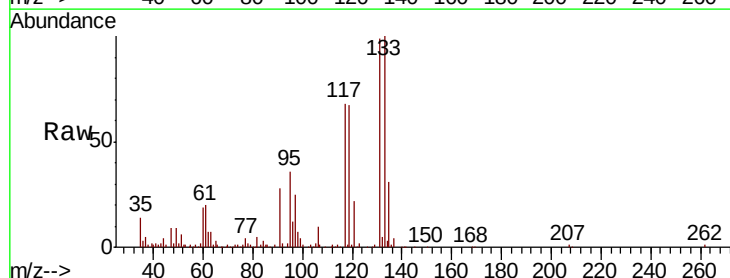
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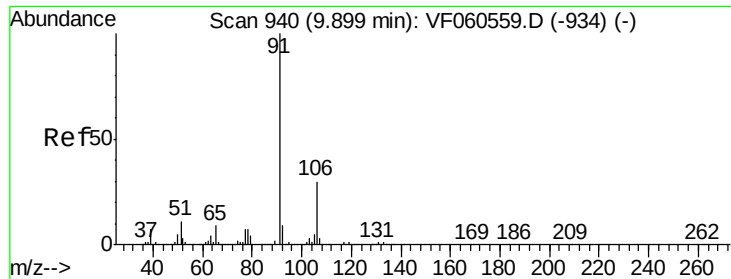
MMDadoda
11/5/2018 3:55:36 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 60.248 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	100.6	49.5	148.7
119	67.2	35.2	105.6





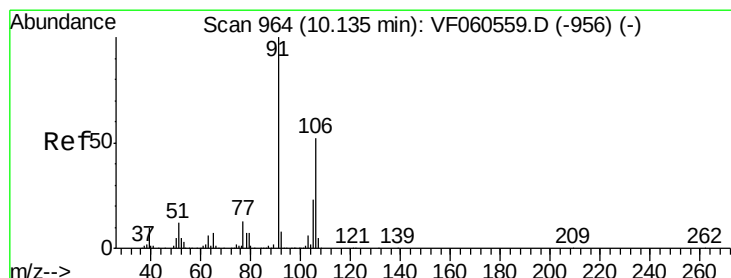
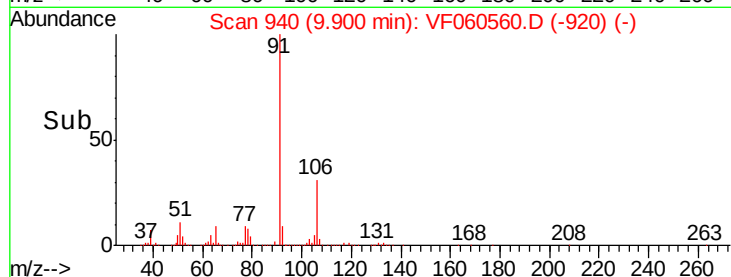
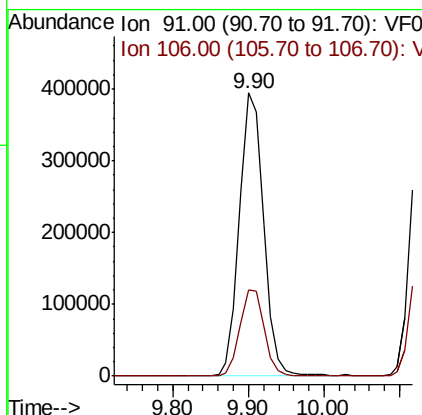
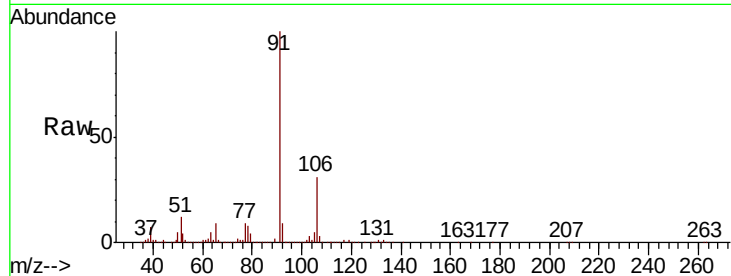
#67
Ethyl Benzene
Concen: 63.280 ug/l
RT: 9.90 min Scan# 940
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 91 Resp: 874206
Ion Ratio Lower Upper
91 100
106 30.7 24.2 36.4

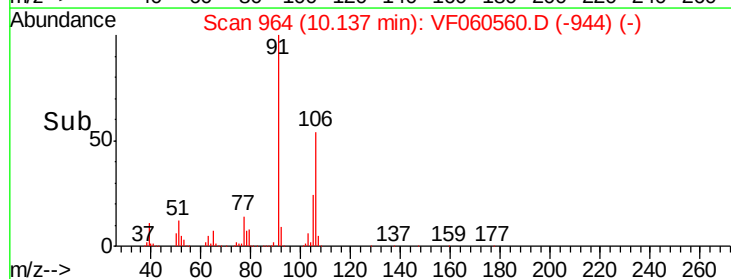
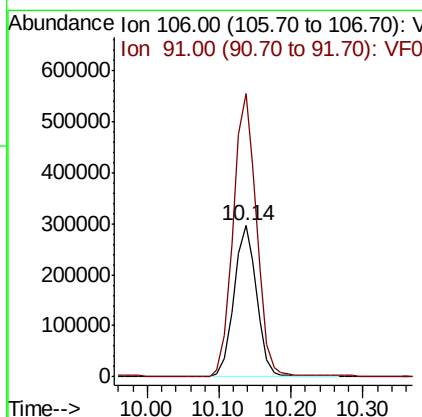
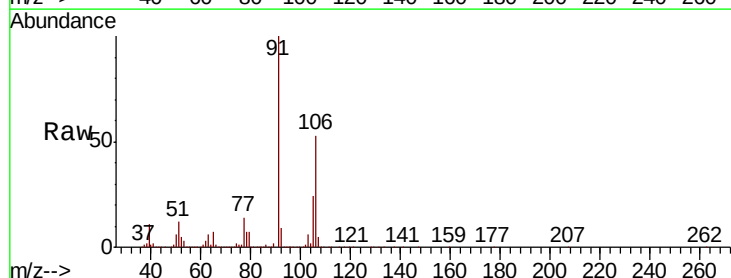
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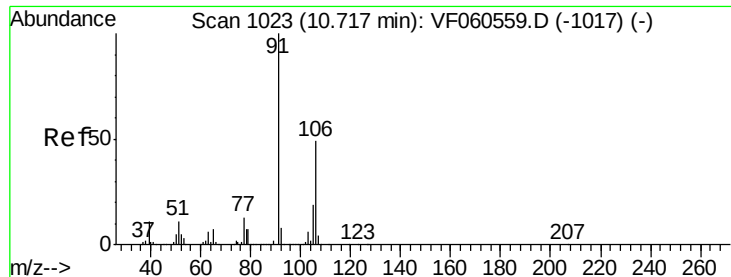
MMDadoda
11/5/2018 3:55:36 PM



#68
m/p-Xylenes
Concen: 136.031 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion: 106 Resp: 649242
Ion Ratio Lower Upper
106 100
91 187.1 153.9 230.9





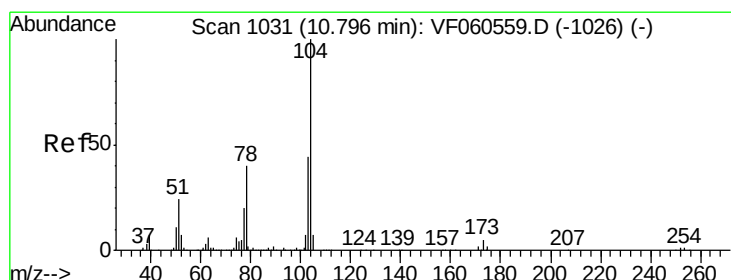
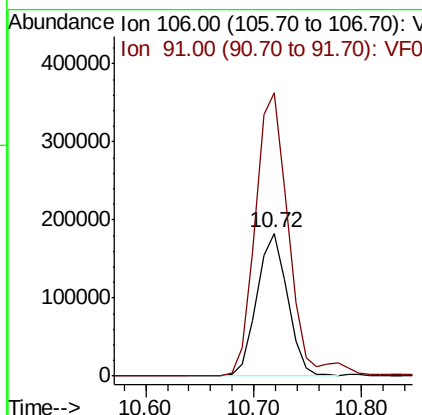
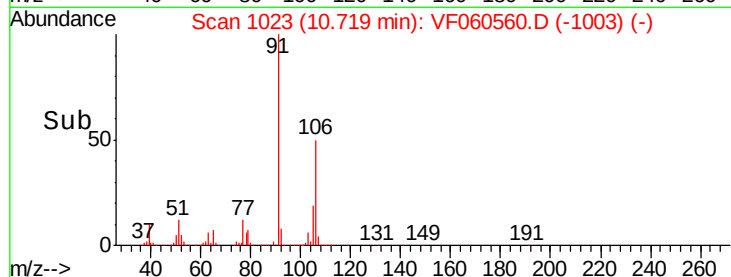
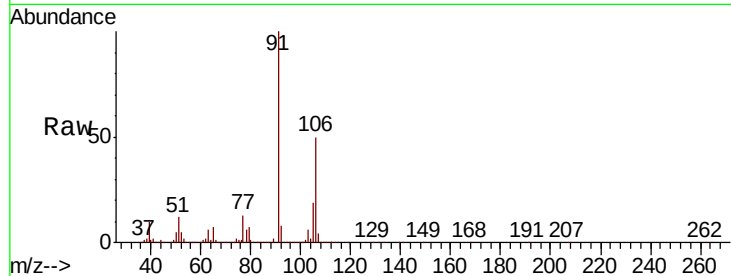
#69
o-Xylene
Concen: 67.174 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	198.1	101.8	359563	305.3	

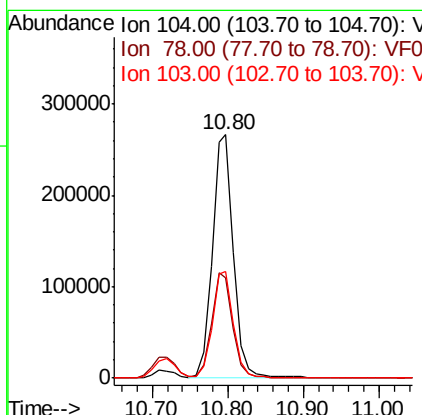
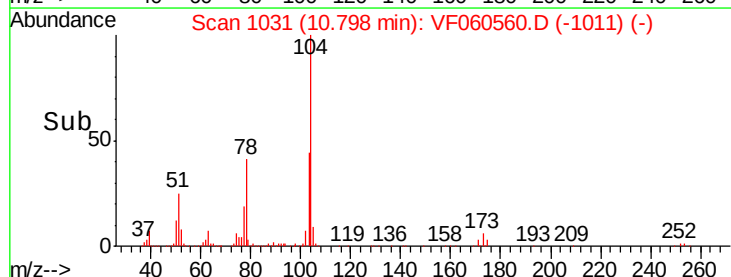
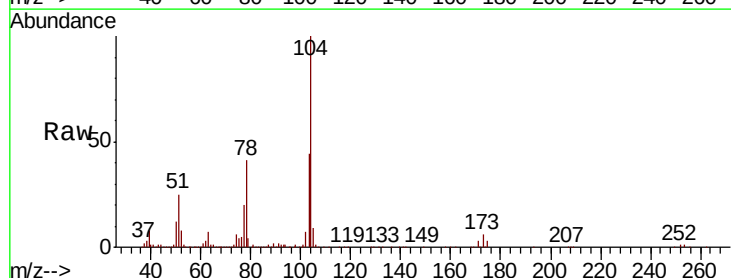
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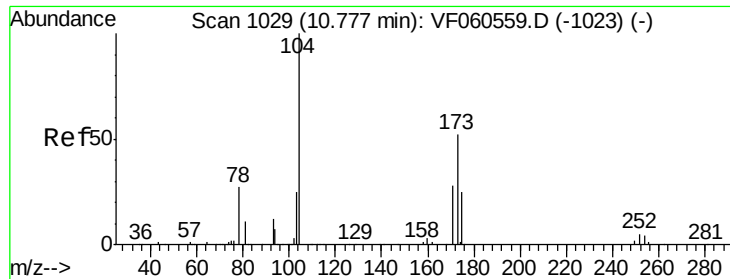
MMDadoda
11/5/2018 3:55:36 PM



#70
Styrene
Concen: 68.334 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	41.4	32.6	517698	49.0	
103	43.7	35.2	517698	52.8	





#71

Bromoform

Concen: 65.033 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

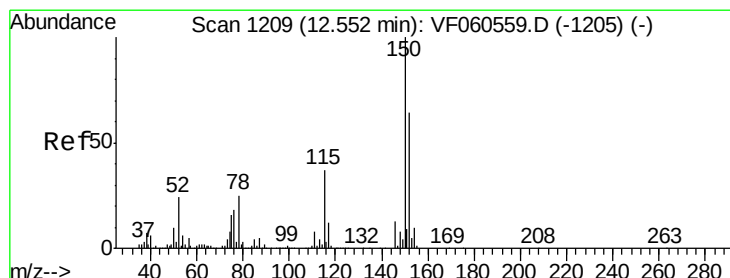
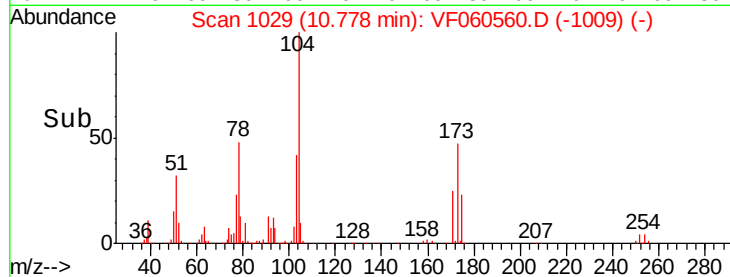
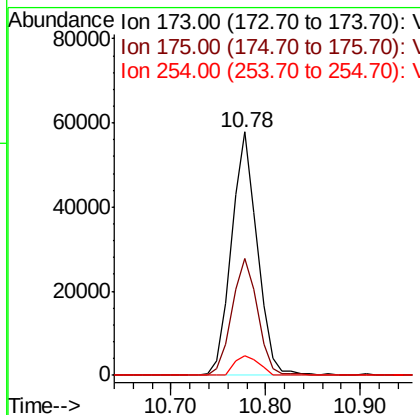
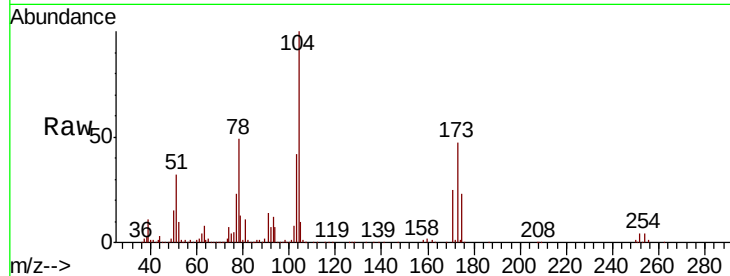
ClientSampleId :

VSTDIC075

Tot Ion:	173	Resp:	109210
Ion Ratio	Lower	Upper	
173	100		
175	49.0	24.3	72.9
254	7.9	6.7	10.1

Manual Integrations
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11/5/2018 3:55:36 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

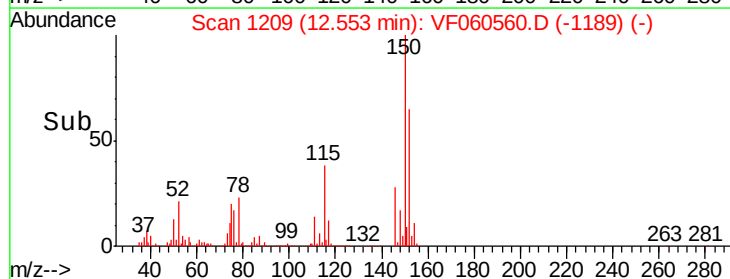
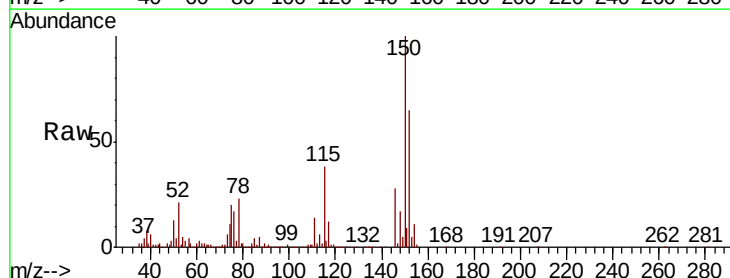
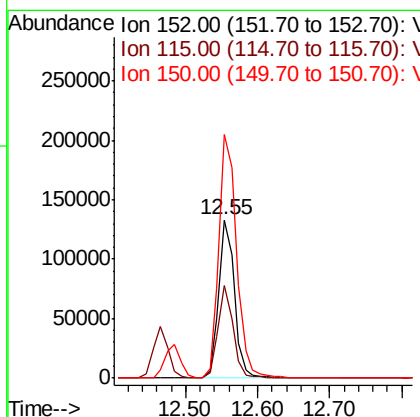
RT: 12.55 min Scan# 1209

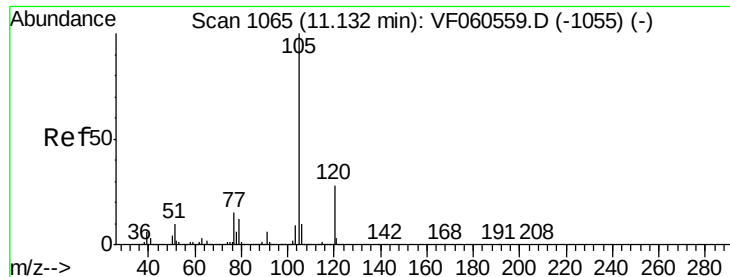
Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	152	Resp:	198920
Ion Ratio	Lower	Upper	
152	100		
115	58.2	29.6	88.8
150	153.8	0.0	315.6





#73

Isopropylbenzene

Concen: 66.199 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 1018529

Ion Ratio Lower Upper

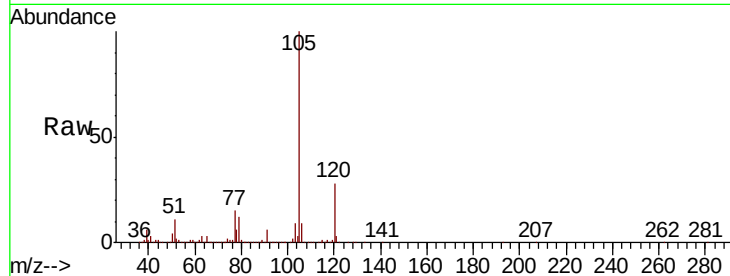
105 100

120 28.0 13.9 41.6

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.13

600000

500000

400000

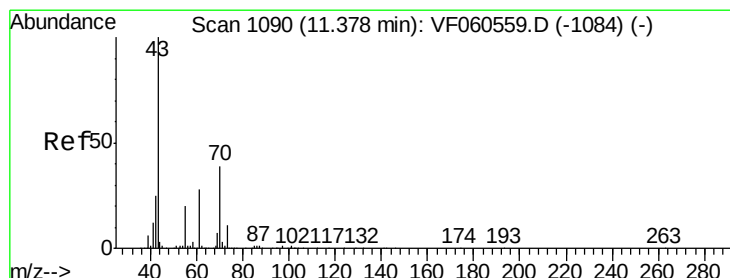
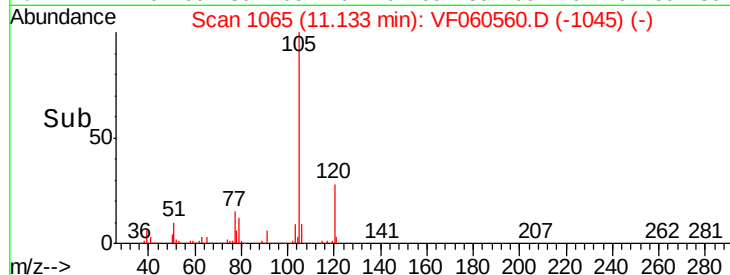
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 87.405 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion: 43 Resp: 281717

Ion Ratio Lower Upper

43 100

70 34.1 30.9 46.3

55 19.8 16.6 24.8

61 26.1 22.0 33.0

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

250000

200000

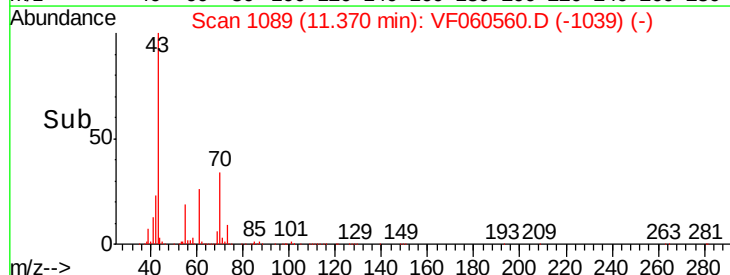
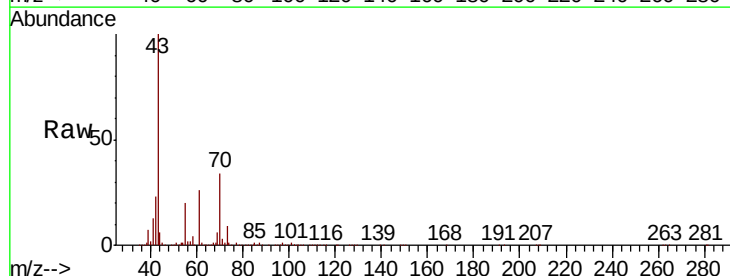
150000

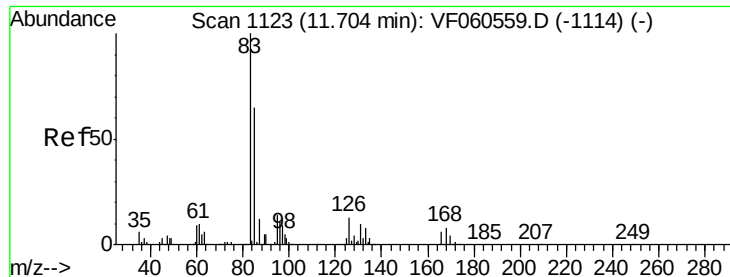
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 73.182 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

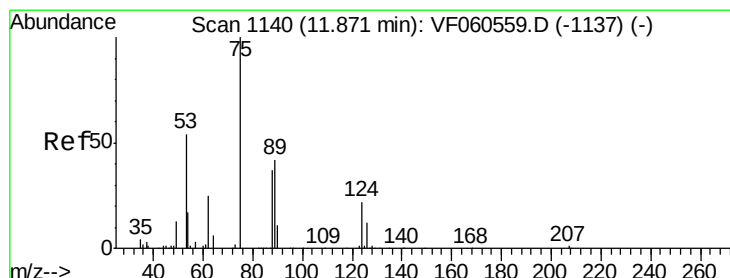
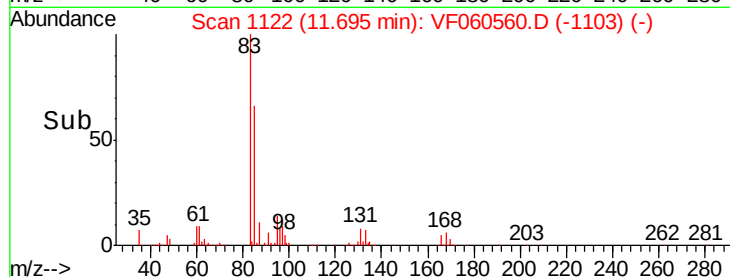
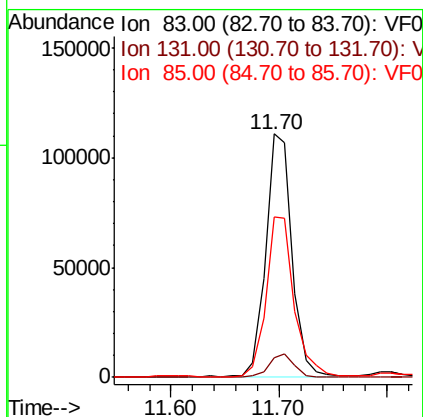
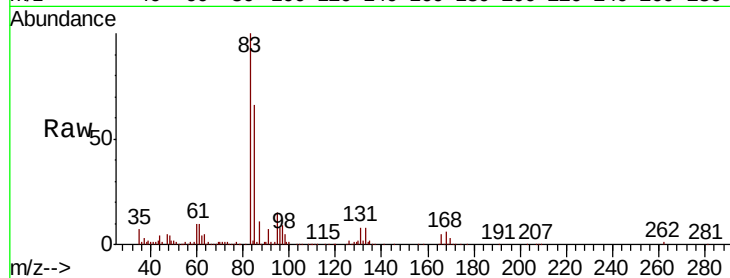
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	188435
Ion Ratio	Lower	Upper	
83	100		
131	8.1	5.0	14.9
85	65.8	32.9	98.7

Manual Integrations
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11/5/2018 3:55:36 PM



#76

1,2,3-Trichloropropane

Concen: 52.386 ug/l

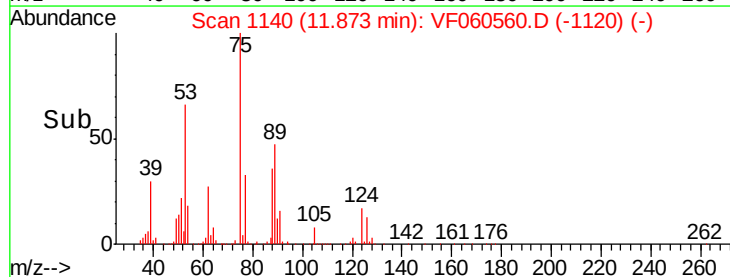
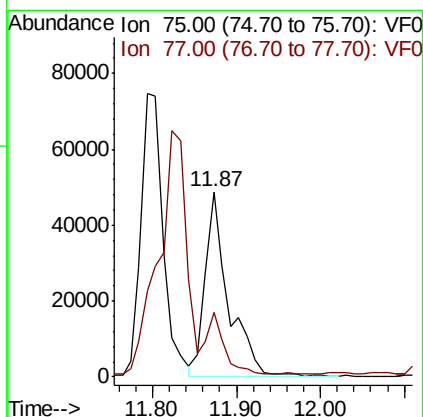
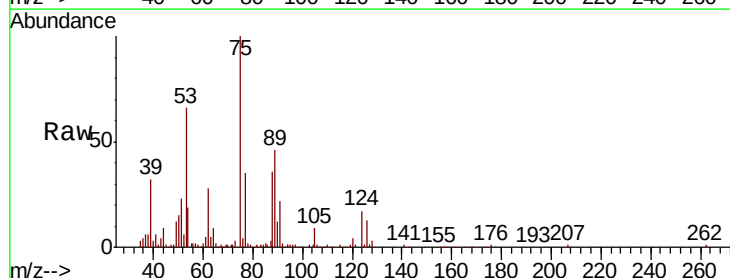
RT: 11.87 min Scan# 1140

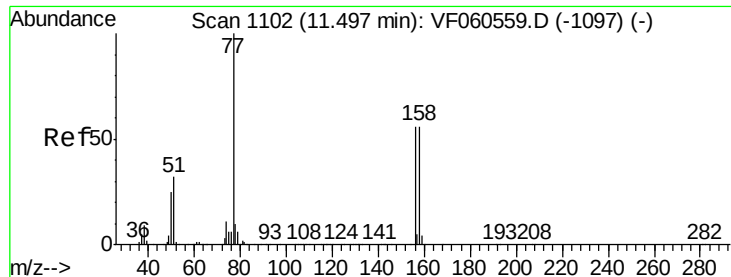
Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	75	Resp:	92605
Ion Ratio	Lower	Upper	
75	100		
77	35.1	17.4	52.3





#77

Bromobenzene

Concen: 68.664 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

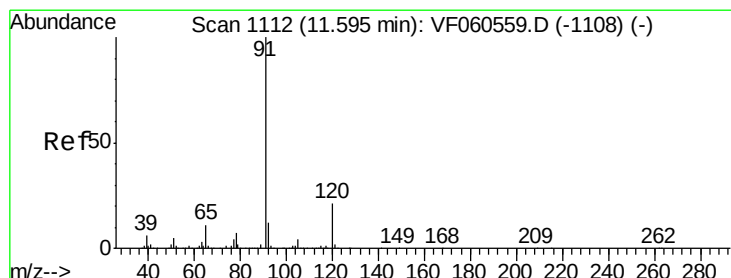
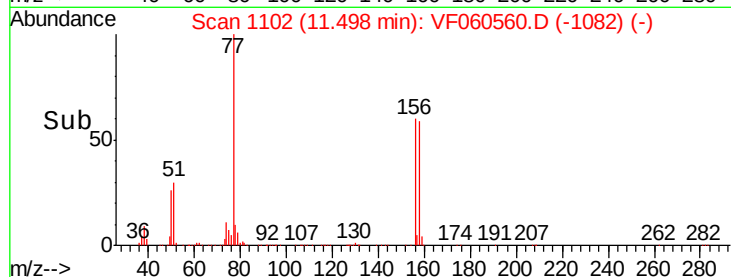
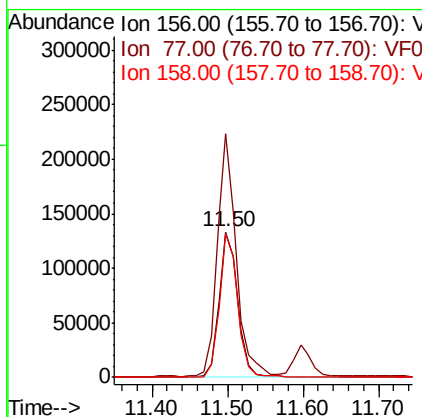
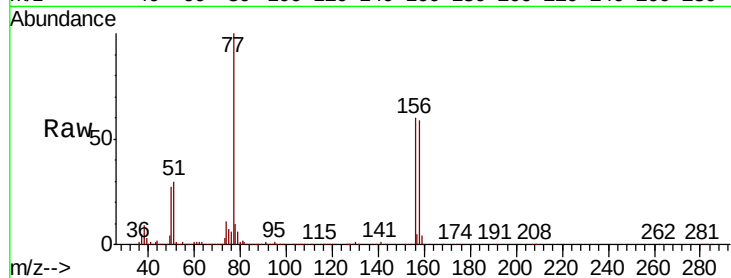
ClientSampleId :

VSTDIC075

Tot Ion:	156	Resp:	231198
Ion Ratio	Lower	Upper	
156	100		
77	167.2	89.3	268.1
158	98.9	50.0	150.1

Manual Integrations
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#78

n-propylbenzene

Concen: 62.840 ug/l

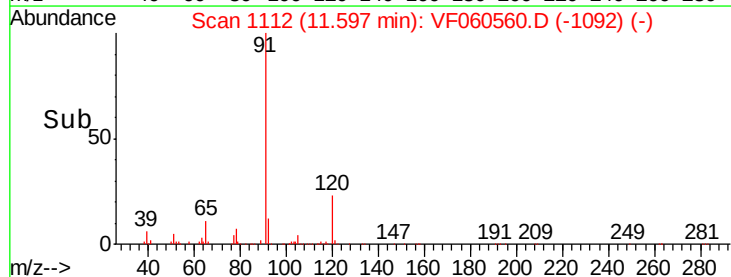
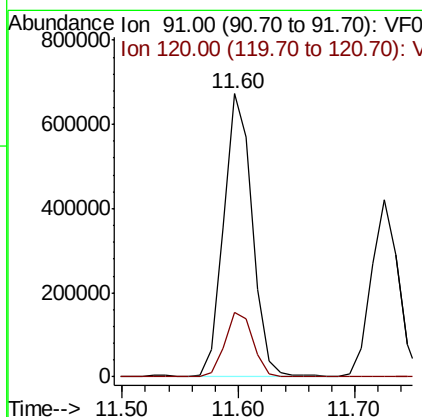
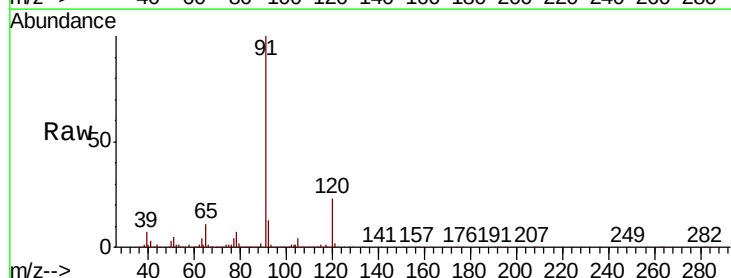
RT: 11.60 min Scan# 1112

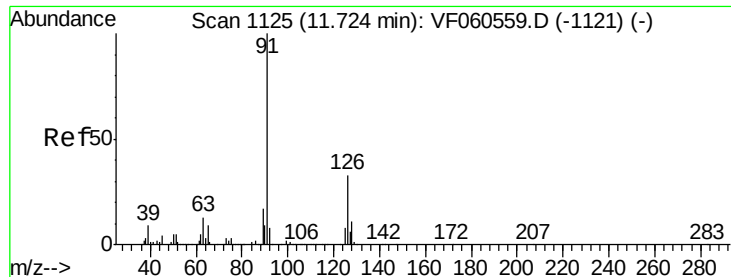
Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	91	Resp:	1139343
Ion Ratio	Lower	Upper	
91	100		
120	22.7	10.5	31.6





#79

2-Chlorotoluene

Concen: 62.235 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 671865

Ion Ratio Lower Upper

91 100

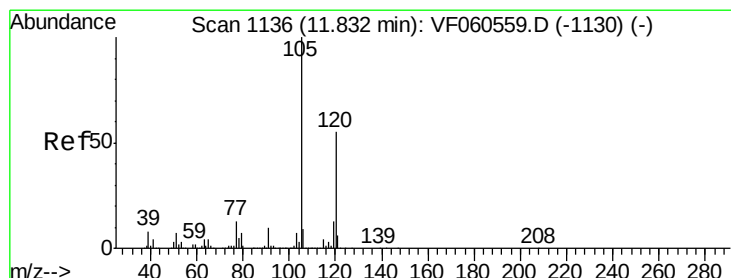
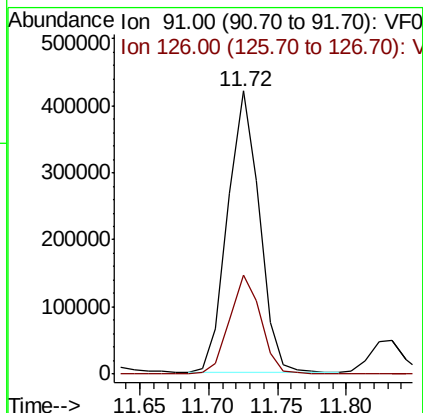
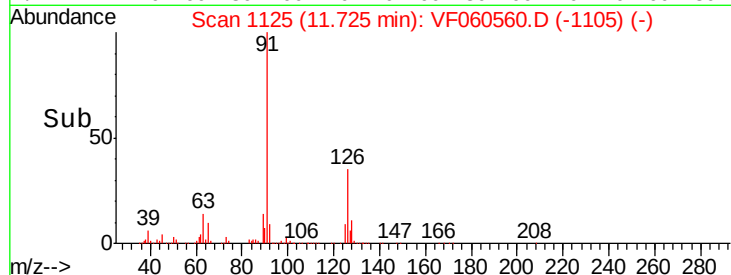
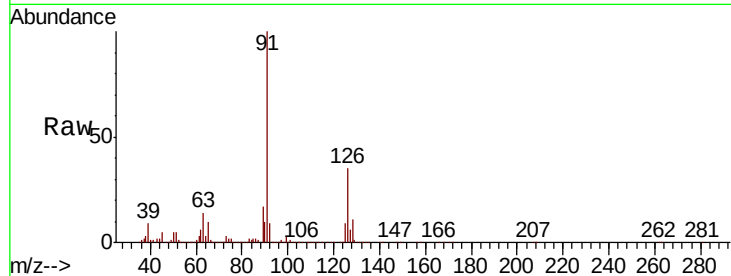
126 35.1 16.5 49.5

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 61.668 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF060560.D

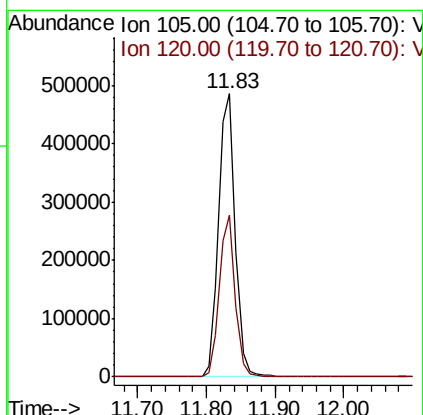
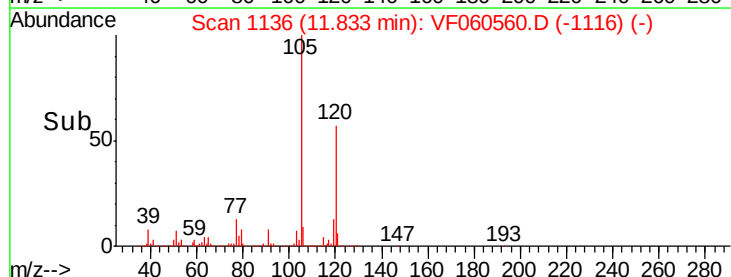
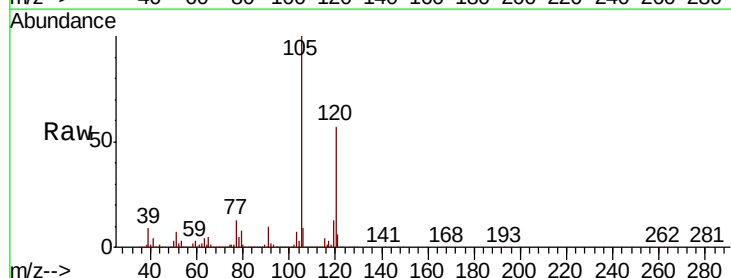
Acq: 2 Nov 2018 12:59

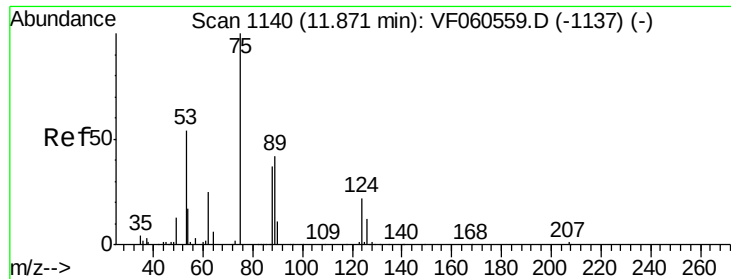
Tgt Ion: 105 Resp: 809387

Ion Ratio Lower Upper

105 100

120 56.9 27.6 82.8





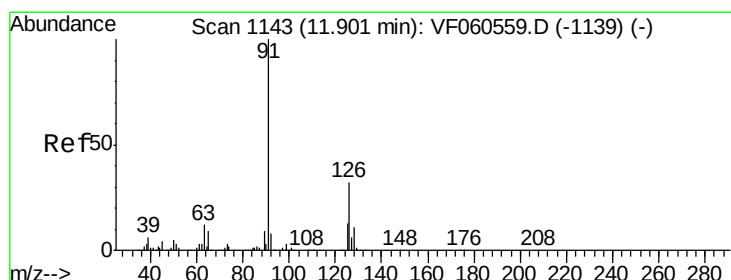
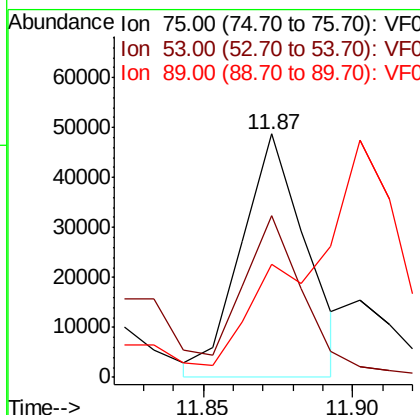
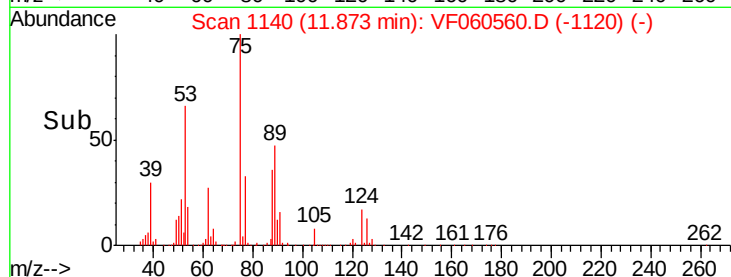
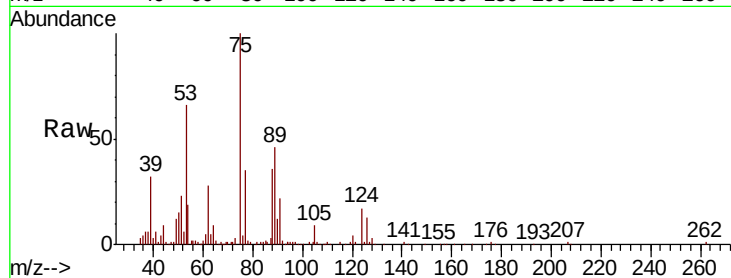
#81
trans-1,4-Dichloro-2-butene
Concen: 85.349 ug/l m
RT: 11.87 min Scan# 1140
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
75	100		
53	66.3	51.6	77.4
89	46.4	36.7	55.1

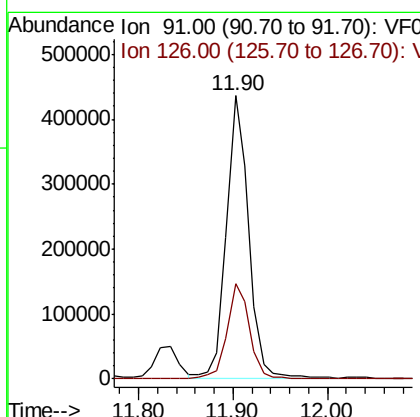
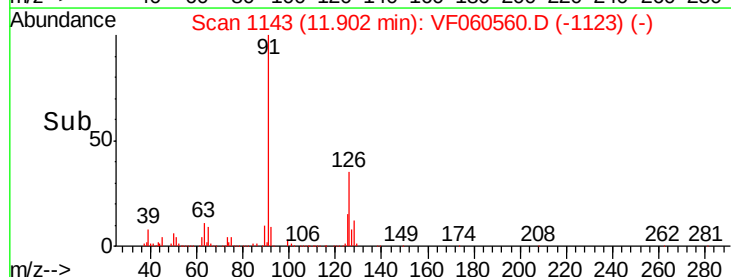
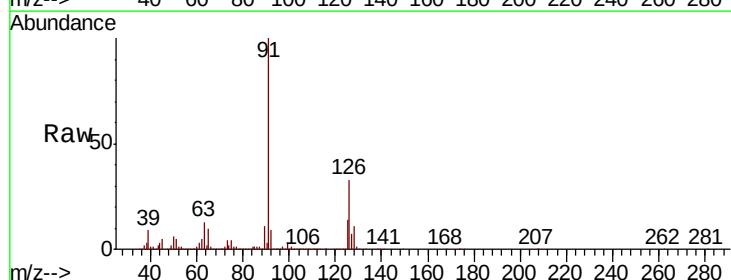
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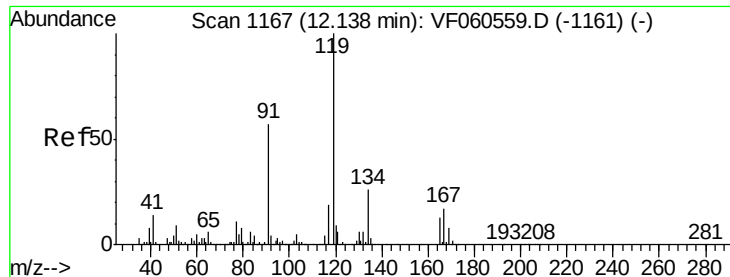
MMDadoda
11/5/2018 3:55:36 PM



#82
4-Chlorotoluene
Concen: 62.689 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.5	15.9	47.7





#83

tert-Butylbenzene

Concen: 64.700 ug/l

RT: 12.14 min Scan# 1167

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:119 Resp: 834393

Ion Ratio Lower Upper

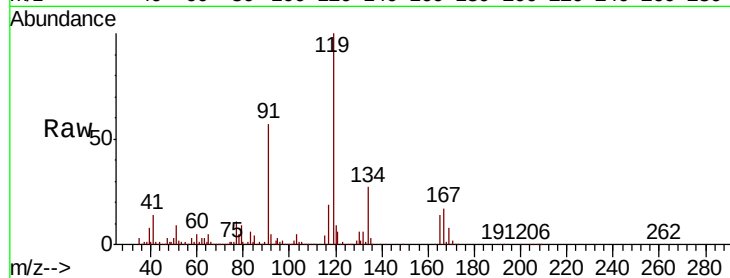
119 100

91 57.4 28.8 86.4

134 27.2 13.2 39.6

Manual Integrations
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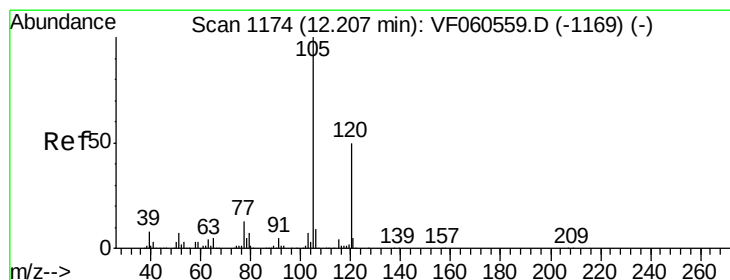
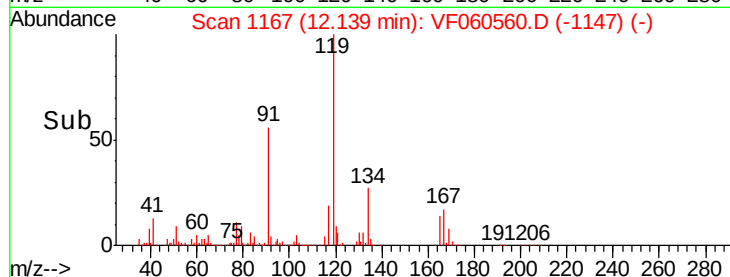
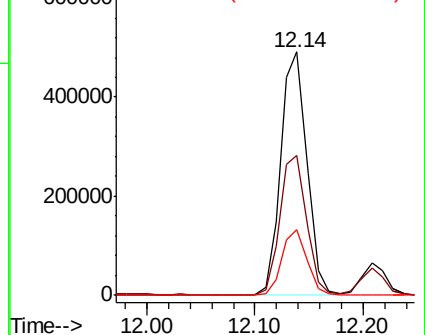
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 58.816 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VF060560.D

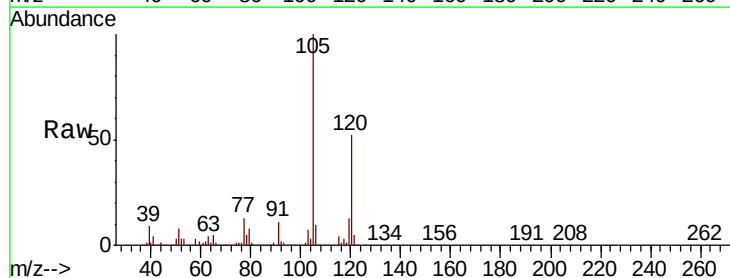
Acq: 2 Nov 2018 12:59

Tgt Ion:105 Resp: 784218

Ion Ratio Lower Upper

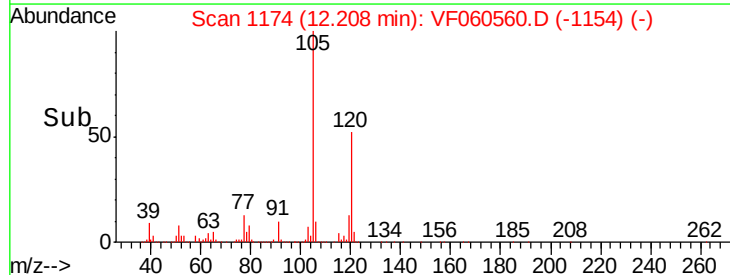
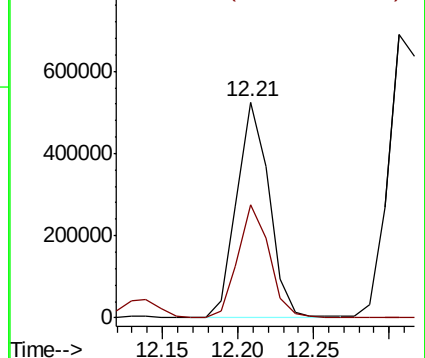
105 100

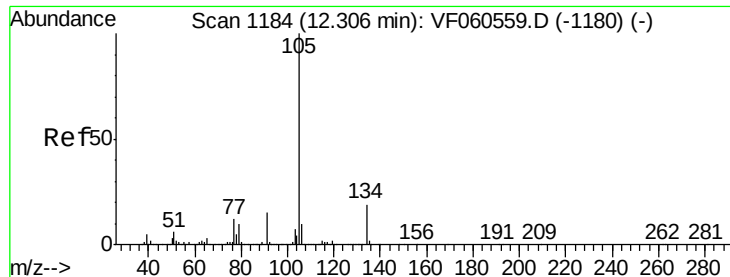
120 52.4 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 62.645 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 1132450

Ion Ratio Lower Upper

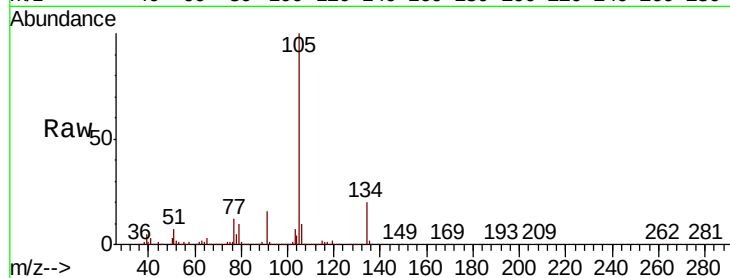
105 100

134 19.8 9.7 29.1

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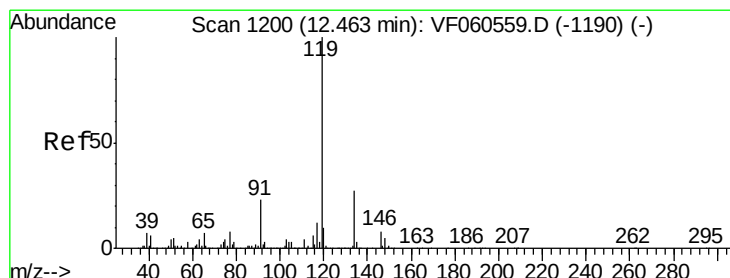
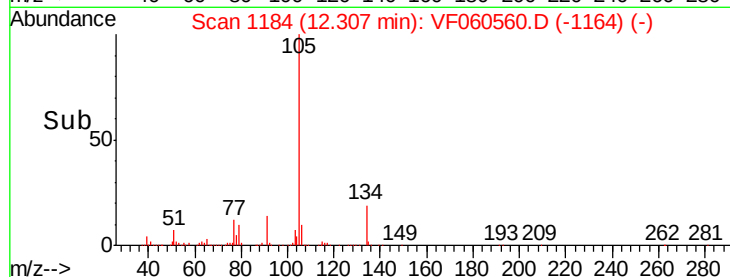
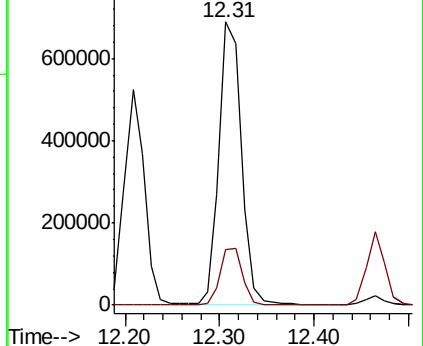
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 62.341 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

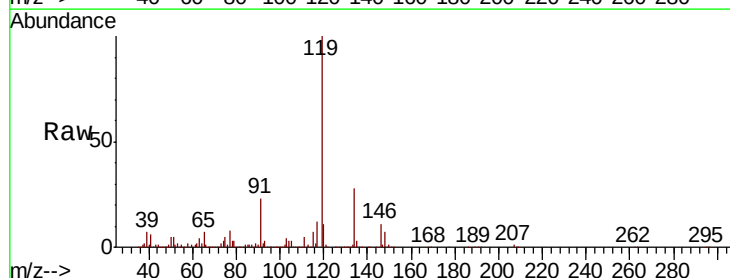
Tgt Ion:119 Resp: 924143

Ion Ratio Lower Upper

119 100

134 27.7 13.6 40.7

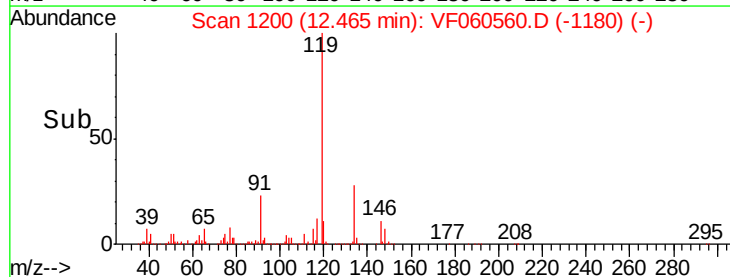
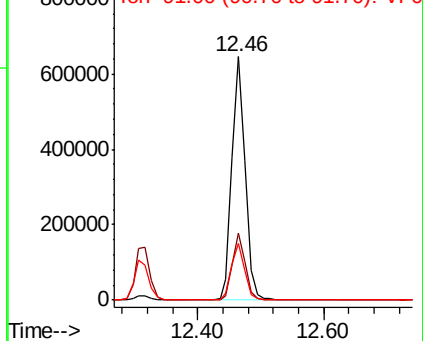
91 23.4 11.4 34.2

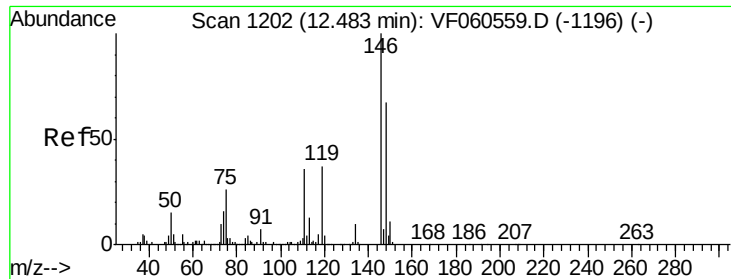


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





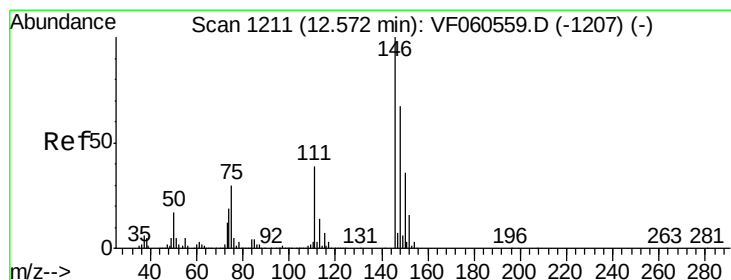
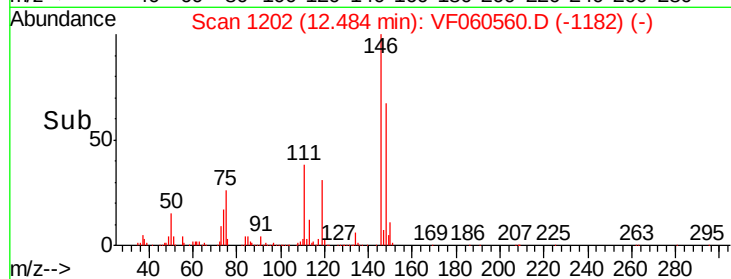
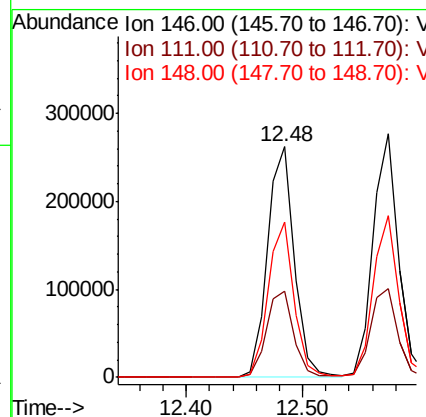
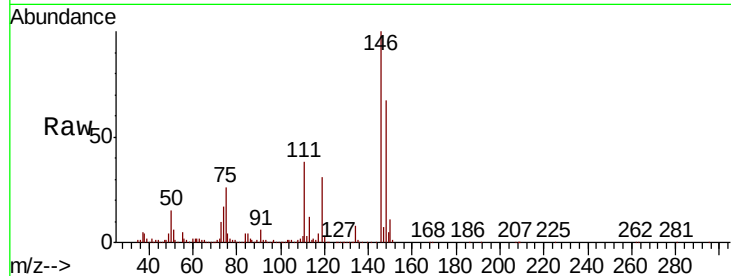
#87
 1,3-Dichlorobenzene
 Concen: 62.199 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.3	54.8
148	67.4	33.5	100.4

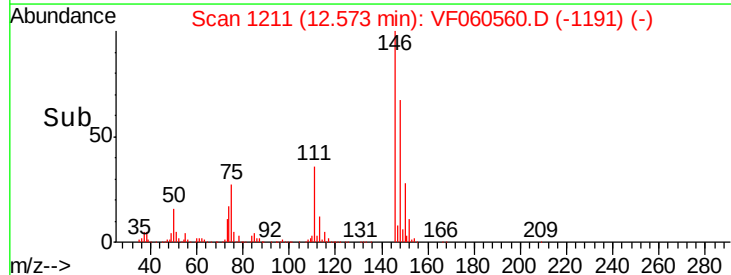
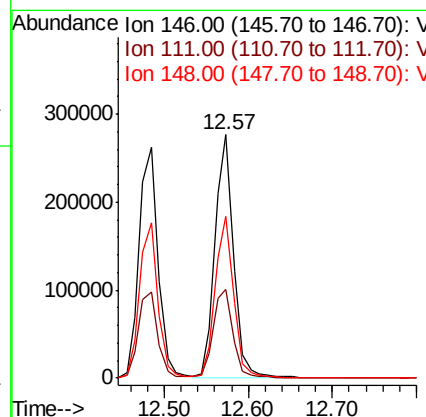
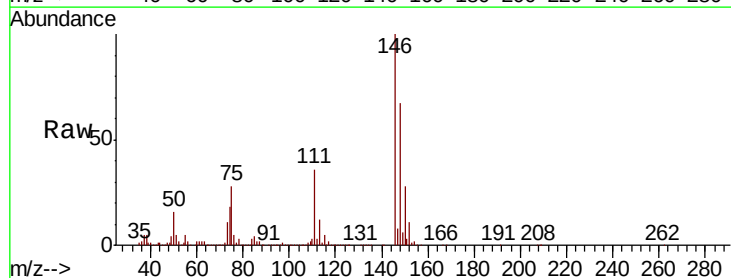
Manual Integrations
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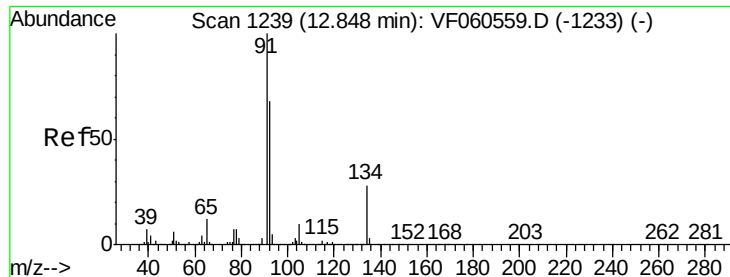
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 11/5/2018 3:55:36 PM



#88
 1,4-Dichlorobenzene
 Concen: 66.747 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	19.7	59.1
148	66.6	33.7	101.1





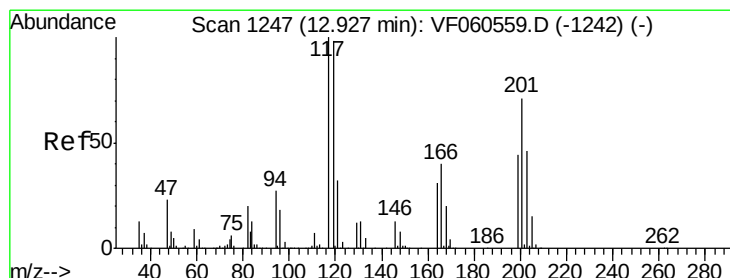
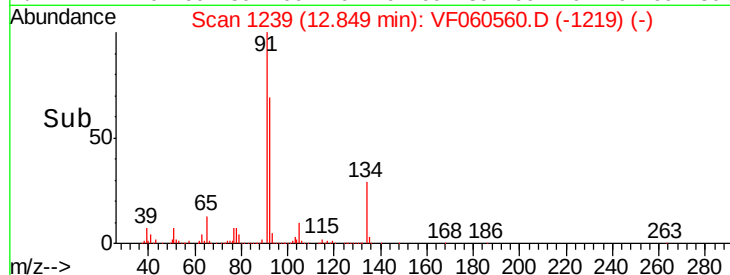
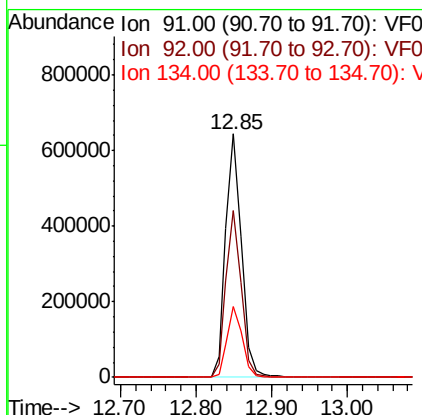
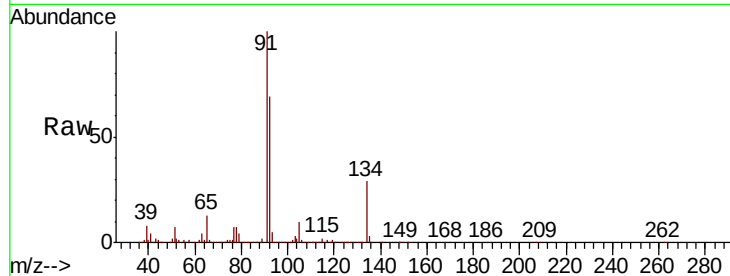
#89
n-Butylbenzene
Concen: 60.151 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
91	100		
92	68.7	34.1	102.2
134	29.2	13.9	41.6

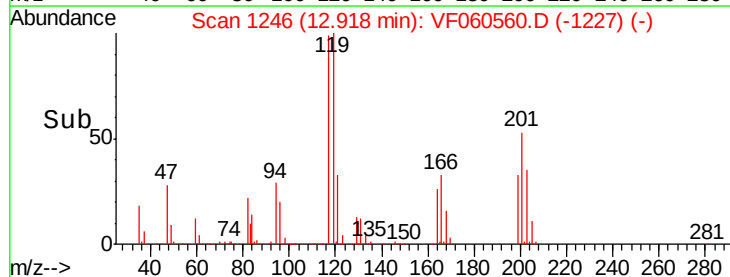
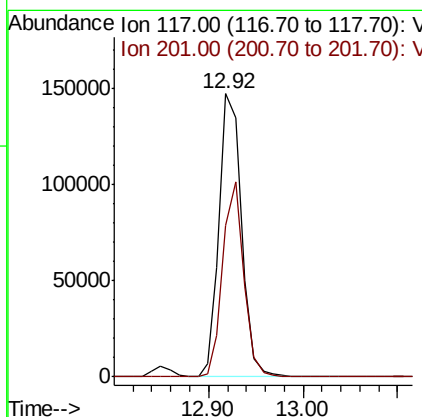
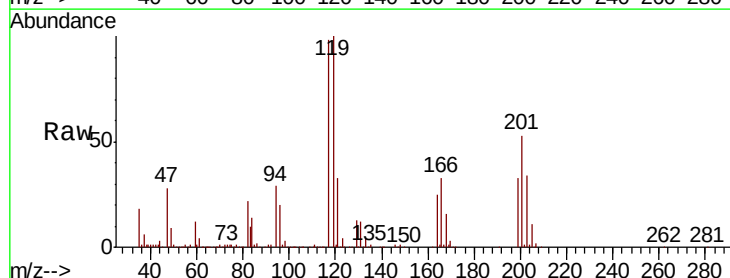
Manual Integrations
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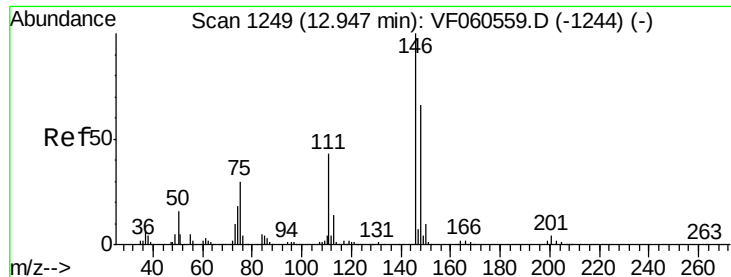
MMDadoda
11/5/2018 3:55:36 PM



#90
Hexachloroethane
Concen: 63.516 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	53.6	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 62.659 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Instrument :

MSVOA_F

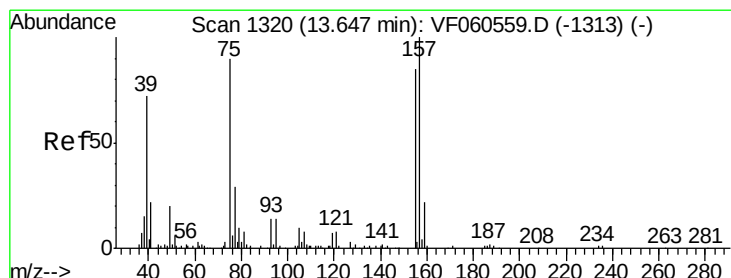
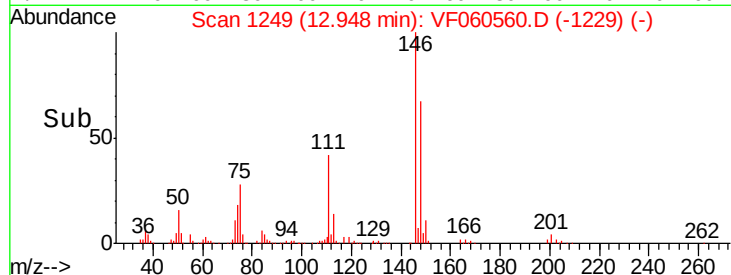
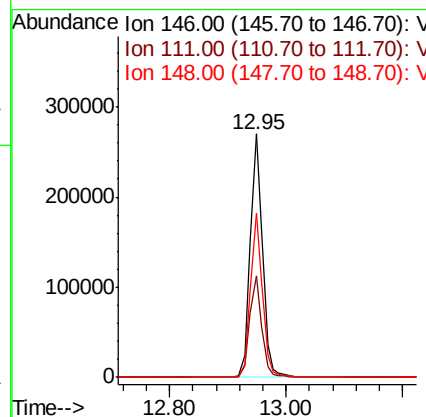
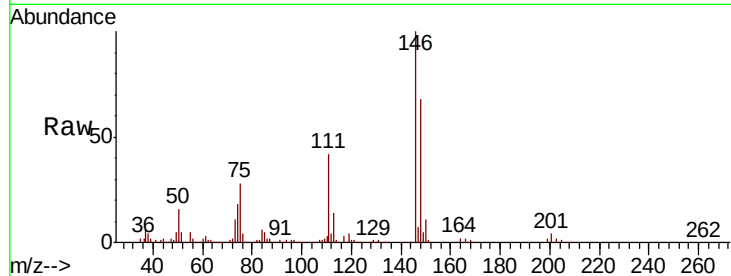
ClientSampleId :

VSTDIC075

Tot Ion:	146	Resp:	395512
Ion Ratio	Lower	Upper	
146	100		
111	41.7	21.3	64.0
148	67.5	32.9	98.7

Manual Integrations
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11/5/2018 3:55:36 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 64.814 ug/l

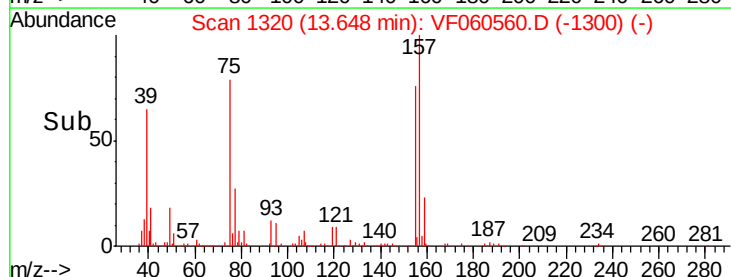
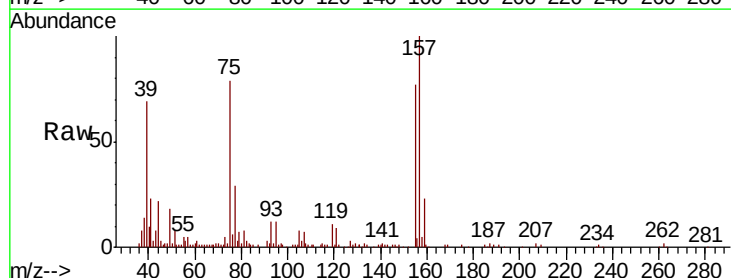
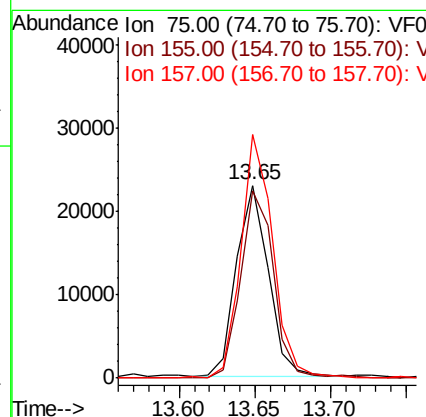
RT: 13.65 min Scan# 1320

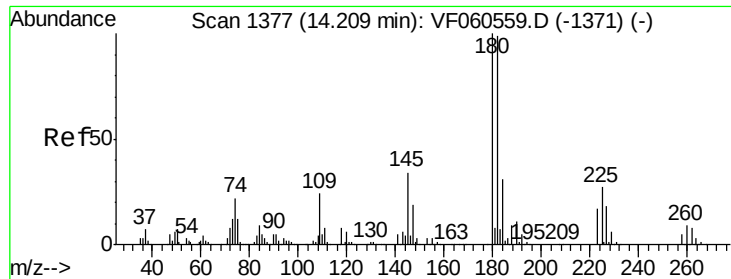
Delta R.T. 0.00 min

Lab File: VF060560.D

Acq: 2 Nov 2018 12:59

Tgt Ion:	75	Resp:	33790
Ion Ratio	Lower	Upper	
75	100		
155	97.2	47.3	141.8
157	126.5	55.3	165.9





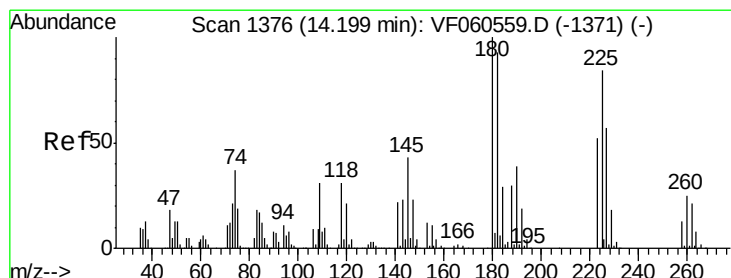
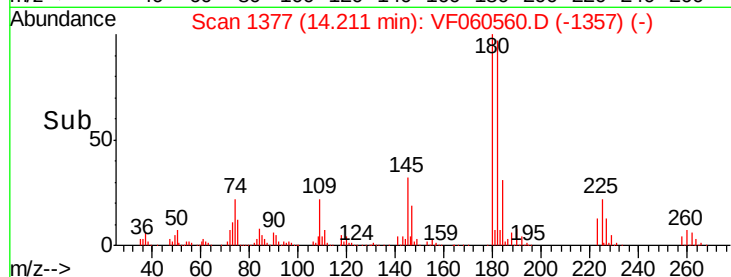
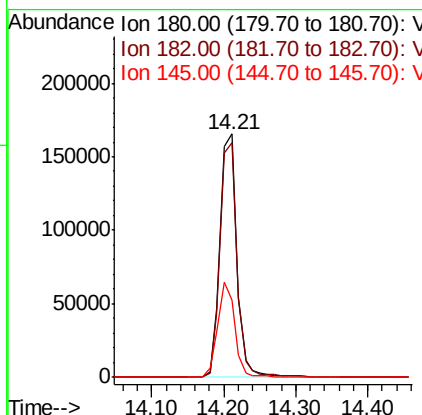
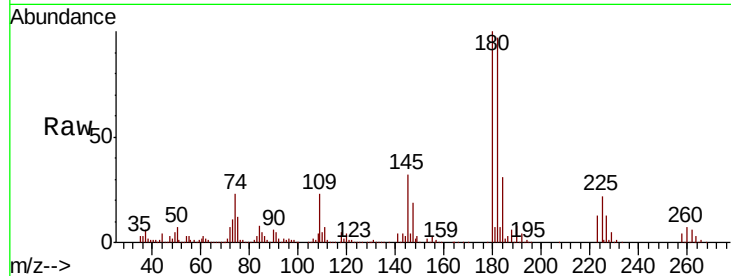
#93
 1,2,4-Trichlorobenzene
 Concen: 57.701 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
180	100	269512		
182	96.6	49.7	149.1	
145	31.7	16.9	50.7	

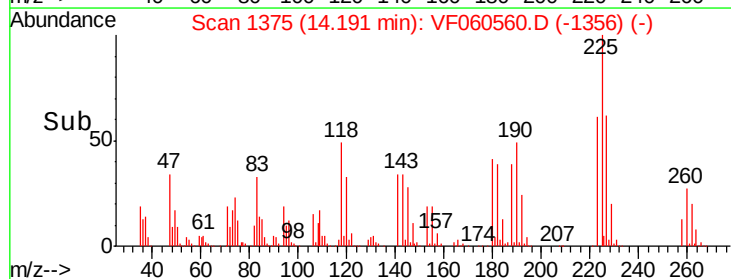
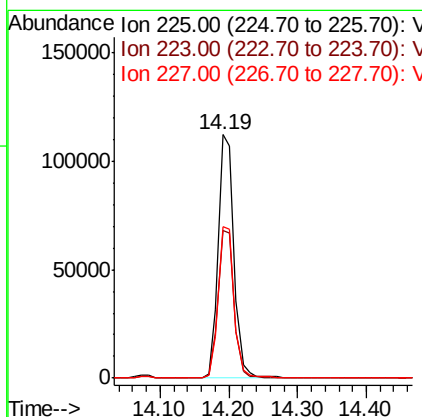
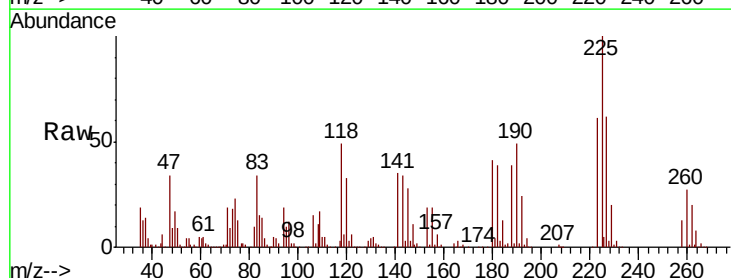
Manual Integrations
 APPROVED

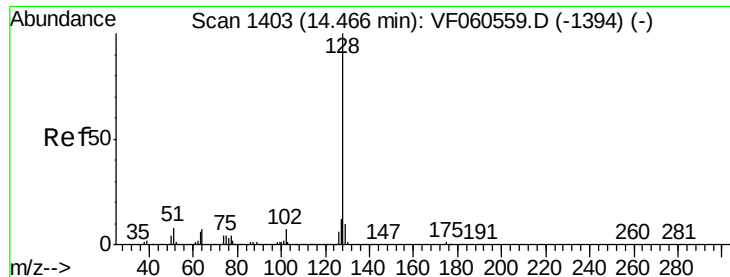
MMDadoda
 11/5/2018 3:55:36 PM



#94
 Hexachlorobutadiene
 Concen: 54.715 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF060560.D
 Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	178865		
223	60.6	30.9	92.5	
227	62.1	33.9	101.6	





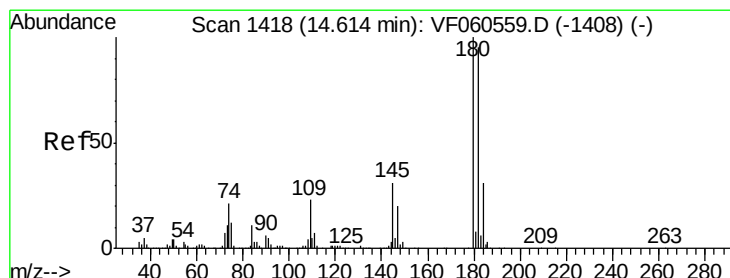
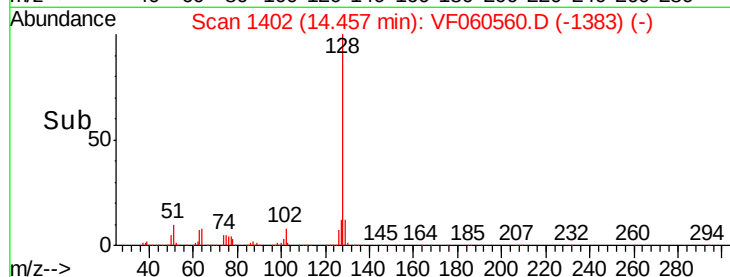
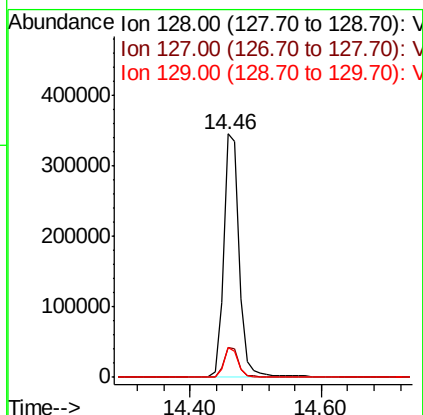
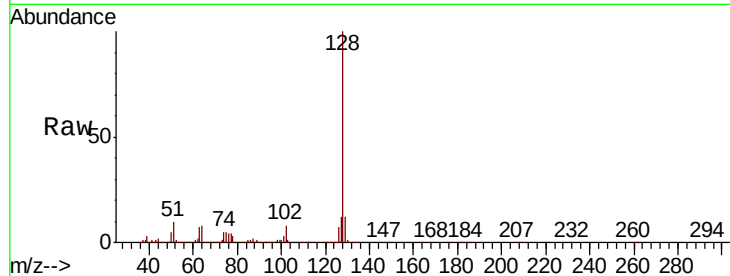
#95
Naphthalene
Concen: 68.616 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
128	100	570035		
127	12.4		9.4	14.0
129	12.2		8.4	12.6

Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:36 PM



#96
1,2,3-Trichlorobenzene
Concen: 58.747 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF060560.D
Acq: 2 Nov 2018 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	260472		
182	95.6		47.3	142.0
145	36.3		15.6	46.8

