

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF112718\
 Data File : VF060838.D
 Acq On : 27 Nov 2018 15:01
 Operator : VA/AP
 Sample : VF1127SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1127SBS01

Manual Integrations
 APPROVED

apatel
 11/28/2018 2:12:27 PM

Quant Time: Nov 28 09:31:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	214589	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.63	114	368070	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	359023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.58	152	184901	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.88	65	135571	53.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.26%	
35) Dibromofluoromethane	4.14	113	145779	49.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.84%	
50) Toluene-d8	7.59	98	445892	51.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.68%	
62) 4-Bromofluorobenzene	11.43	95	197670	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	74759	23.30	ug/l	93
3) Chloromethane	1.11	50	49924	23.91	ug/l	91
4) Vinyl Chloride	1.15	62	46669	23.96	ug/l	94
5) Bromomethane	1.35	94	28683	20.89	ug/l	89
6) Chloroethane	1.40	64	20325	24.14	ug/l	93
7) Trichlorofluoromethane	1.50	101	89503	21.42	ug/l	95
8) Diethyl Ether	1.65	74	13357	22.23	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.86	101	45988	21.77	ug/l	96
10) Methyl Iodide	1.91	142	55734	17.36	ug/l	97
11) Tert butyl alcohol	2.59	59	13417	129.48	ug/l	96
12) 1,1-Dichloroethene	1.81	96	36069	21.23	ug/l	88
13) Acrolein	2.01	56	10506	107.01	ug/l	94
14) Allyl chloride	2.11	41	45279	21.38	ug/l	94
15) Acrylonitrile	2.97	53	26869	115.65	ug/l	94
16) Acetone	2.26	43	57575	123.51	ug/l	96
17) Carbon Disulfide	1.85	76	101126m	22.20	ug/l	
18) Methyl Acetate	2.37	43	22005	27.39	ug/l	99
19) Methyl tert-butyl Ether	2.45	73	86671	22.65	ug/l	100
20) Methylene Chloride	2.27	84	36392m	21.28	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	36192	22.09	ug/l	93
22) Diisopropyl ether	2.82	45	136653	23.71	ug/l	98
23) Vinyl Acetate	3.22	43	331954	125.97	ug/l	99
24) 1,1-Dichloroethane	2.90	63	73326	21.38	ug/l	99
25) 2-Butanone	4.37	43	97829	121.33	ug/l	97
26) 2,2-Dichloropropane	3.63	77	47919	21.55	ug/l	91
27) cis-1,2-Dichloroethene	3.50	96	62435	23.41	ug/l	97
28) Bromochloromethane	3.75	49	38463	23.37	ug/l	99
29) Tetrahydrofuran	4.11	42	39702	116.16	ug/l	96
30) Chloroform	3.90	83	118733	22.49	ug/l	95
31) Cyclohexane	3.72	56	83606m	23.49	ug/l	
32) 1,1,1-Trichloroethane	4.13	97	72974	19.93	ug/l	95
36) 1,1-Dichloropropene	4.31	75	85548	20.95	ug/l	95
37) Ethyl Acetate	4.14	43	37151	22.39	ug/l	94
38) Carbon Tetrachloride	4.03	117	68682	19.05	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF112718\
 Data File : VF060838.D
 Acq On : 27 Nov 2018 15:01
 Operator : VA/AP
 Sample : VF1127SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF1127SBS01

Manual Integrations
 APPROVED

apatel
 11/28/2018 2:12:27 PM

Quant Time: Nov 28 09:31:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.49	83	88105	20.59	ug/l	95
40) Benzene	4.67	78	198193	21.97	ug/l	99
41) Methacrylonitrile	4.77	41	21342	22.73	ug/l	96
42) 1,2-Dichloroethane	4.97	62	67479	20.49	ug/l	94
43) Isopropyl Acetate	6.99	43	50639	23.29	ug/l #	97
44) Trichloroethene	5.53	130	63769	21.62	ug/l	95
45) 1,2-Dichloropropane	6.26	63	54862	23.42	ug/l	100
46) Dibromomethane	6.12	93	33924	21.35	ug/l	94
47) Bromodichloromethane	6.42	83	87561	20.75	ug/l	96
48) Methyl methacrylate	6.75	41	32851	21.88	ug/l	96
49) 1,4-Dioxane	6.75	88	4635	421.73	ug/l	89
51) 4-Methyl-2-Pentanone	8.29	43	181641	118.73	ug/l	98
52) Toluene	7.66	92	133507	21.07	ug/l	94
53) t-1,3-Dichloropropene	8.32	75	75732	22.06	ug/l	90
54) cis-1,3-Dichloropropene	7.33	75	93390	21.97	ug/l	97
55) 1,1,2-Trichloroethane	8.52	97	40602	21.99	ug/l	97
56) Ethyl methacrylate	8.65	69	46714	22.78	ug/l	94
57) 1,3-Dichloropropane	8.88	76	71546	22.15	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.33	63	21568	102.83	ug/l #	83
59) 2-Hexanone	9.52	43	133584	124.46	ug/l	99
60) Dibromochloromethane	8.75	129	55667	20.24	ug/l	96
61) 1,2-Dibromoethane	9.02	107	43860	21.99	ug/l	95
64) Tetrachloroethene	8.19	164	53949	19.67	ug/l	94
65) Chlorobenzene	9.84	112	150115	21.49	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.96	131	60327	20.09	ug/l	98
67) Ethyl Benzene	9.93	91	270873	20.83	ug/l	97
68) m/p-Xylenes	10.16	106	194359	41.56	ug/l	95
69) o-Xylene	10.74	106	112181	21.75	ug/l	96
70) Styrene	10.81	104	153308	21.45	ug/l	98
71) Bromoform	10.80	173	30291	20.89	ug/l #	96
73) Isopropylbenzene	11.15	105	311521	21.32	ug/l	99
74) N-amyl acetate	11.39	43	80306	23.80	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.72	83	53977	22.45	ug/l	98
76) 1,2,3-Trichloropropane	11.82	75	40411	23.12	ug/l	88
77) Bromobenzene	11.52	156	65572	20.47	ug/l	86
78) n-propylbenzene	11.62	91	367313	21.47	ug/l	99
79) 2-Chlorotoluene	11.75	91	209856	21.39	ug/l	96
80) 1,3,5-Trimethylbenzene	11.85	105	255254	21.52	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.90	75	17083m	19.95	ug/l	
82) 4-Chlorotoluene	11.93	91	214148	20.74	ug/l	92
83) tert-Butylbenzene	12.15	119	267159	22.11	ug/l	99
84) 1,2,4-Trimethylbenzene	12.22	105	252887	21.36	ug/l	98
85) sec-Butylbenzene	12.33	105	358474	21.67	ug/l	100
86) p-Isopropyltoluene	12.48	119	297533	21.45	ug/l	98
87) 1,3-Dichlorobenzene	12.50	146	130816	21.47	ug/l	99
88) 1,4-Dichlorobenzene	12.59	146	125346	21.11	ug/l	98
89) n-Butylbenzene	12.86	91	304786	21.74	ug/l	96
90) Hexachloroethane	12.94	117	69559	20.83	ug/l	83
91) 1,2-Dichlorobenzene	12.96	146	124349	21.55	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.66	75	10310	22.17	ug/l	74

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF112718\
Data File : VF060838.D
Acq On : 27 Nov 2018 15:01
Operator : VA/AP
Sample : VF1127SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBSD01

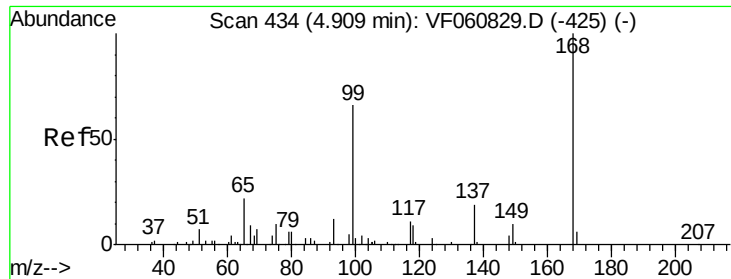
Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM

Quant Time: Nov 28 09:31:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	87313	21.66	ug/l	94
94) Hexachlorobutadiene	14.22	225	51460	19.15	ug/l	98
95) Naphthalene	14.48	128	173298	20.05	ug/l	99
96) 1,2,3-Trichlorobenzene	14.63	180	77551	20.71	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 168 Resp: 214589

Ion Ratio Lower Upper

168 100

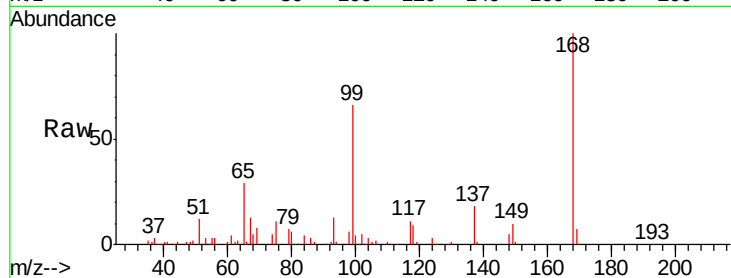
99 66.4 52.6 79.0

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

60000

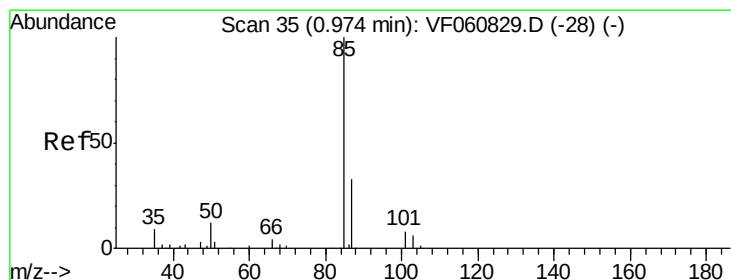
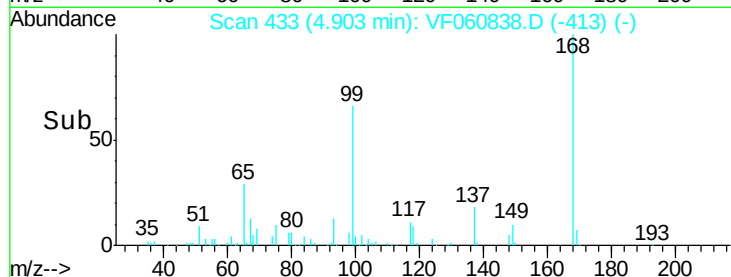
40000

20000

0

4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 23.30 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060838.D

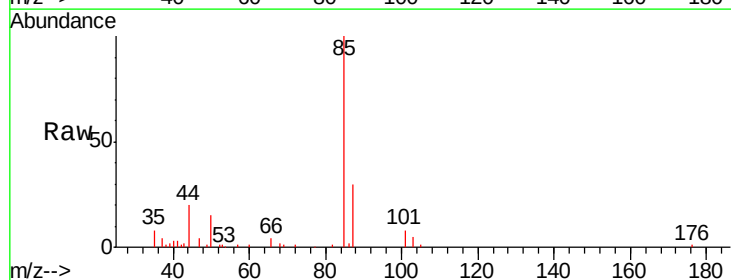
Acq: 27 Nov 2018 15:01

Tgt Ion: 85 Resp: 74759

Ion Ratio Lower Upper

85 100

87 29.5 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

20000

15000

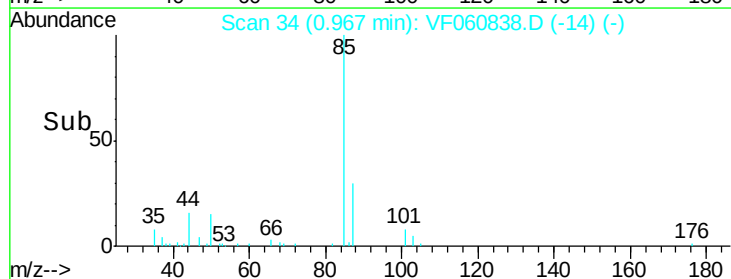
10000

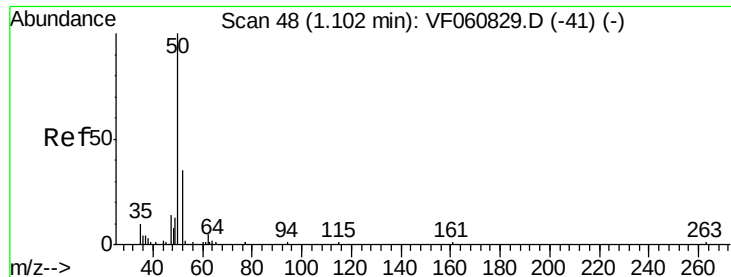
5000

0

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 23.91 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 50 Resp: 49924

Ion Ratio Lower Upper

50 100

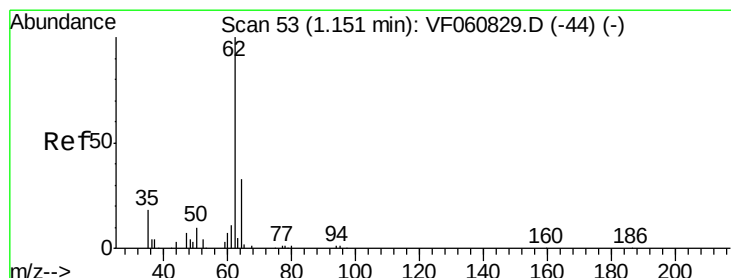
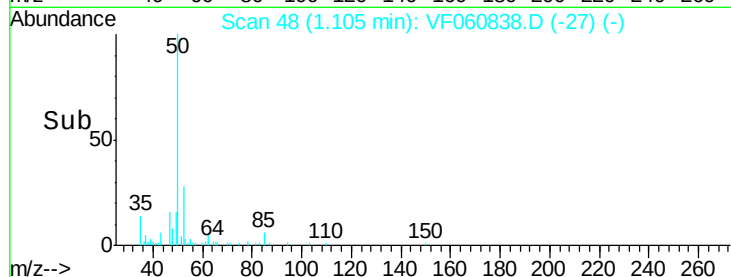
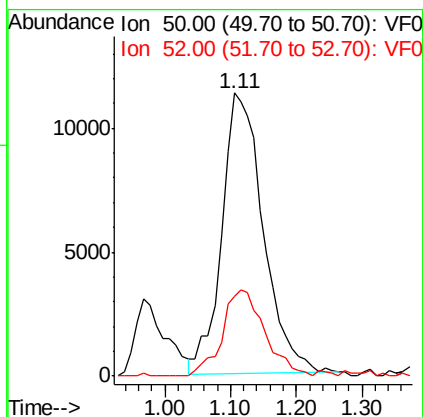
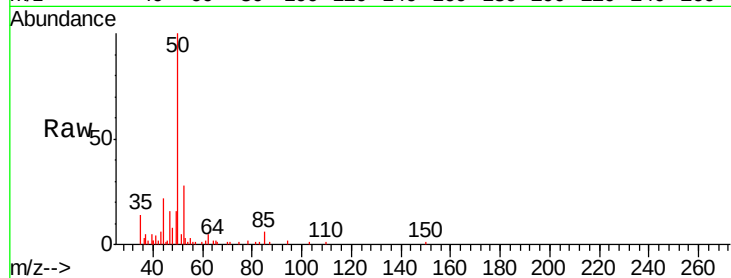
52 28.3 27.0 40.4

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#4

Vinyl Chloride

Concen: 23.96 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.00 min

Lab File: VF060838.D

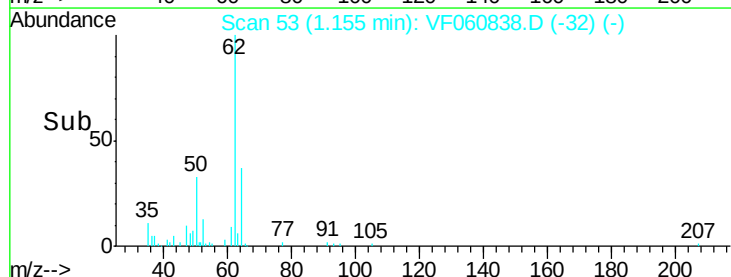
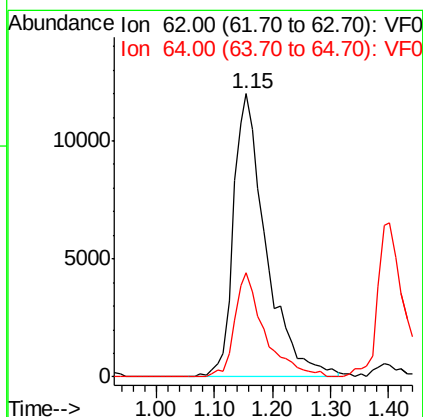
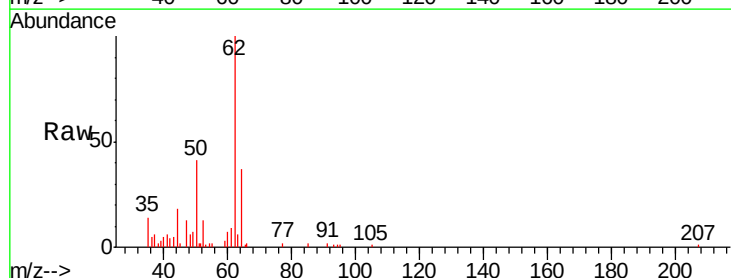
Acq: 27 Nov 2018 15:01

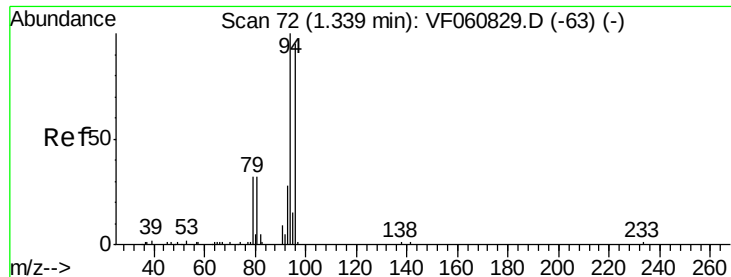
Tgt Ion: 62 Resp: 46669

Ion Ratio Lower Upper

62 100

64 36.6 26.4 39.6





#5

Bromomethane

Concen: 20.89 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 94 Resp: 28683

Ion Ratio Lower Upper

94 100

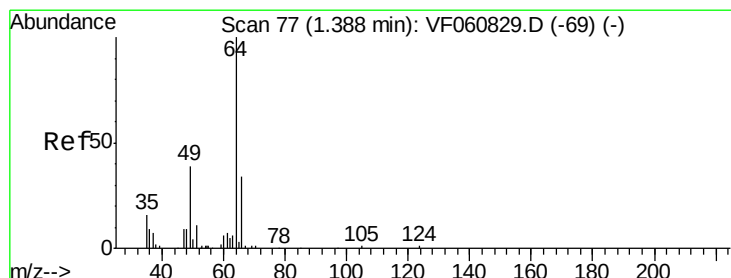
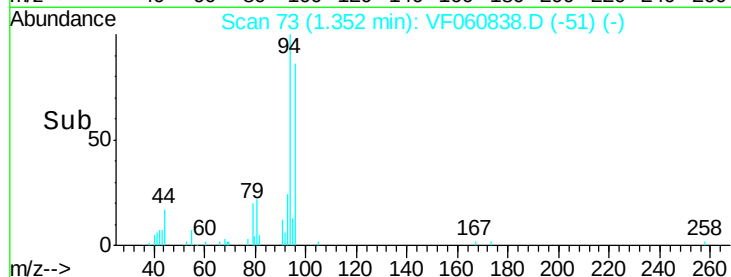
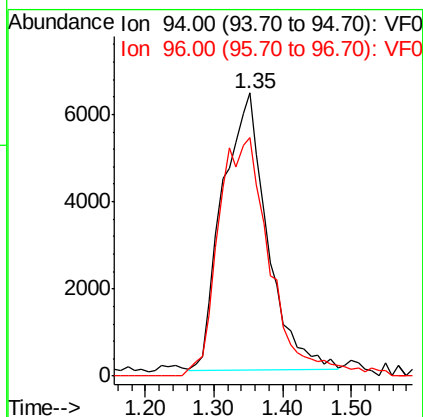
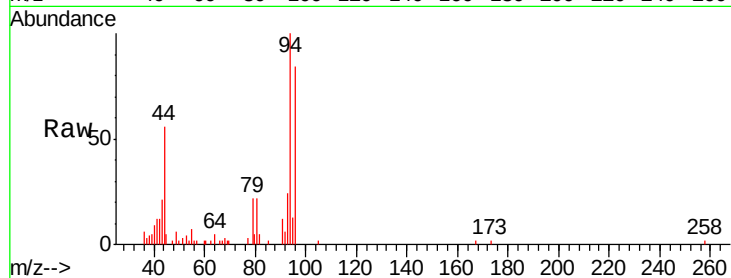
96 84.2 75.9 113.9

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#6

Chloroethane

Concen: 24.14 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.01 min

Lab File: VF060838.D

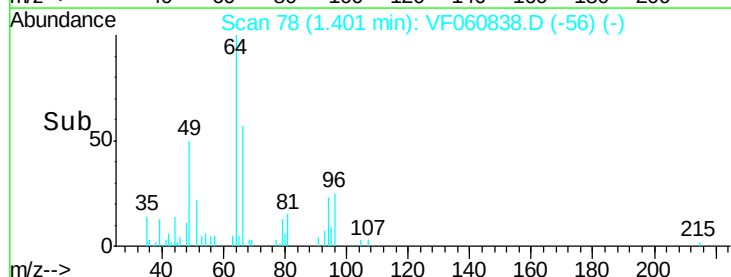
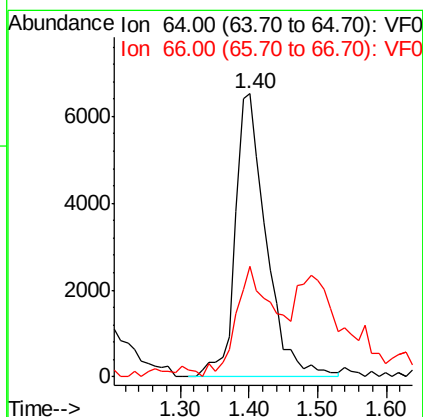
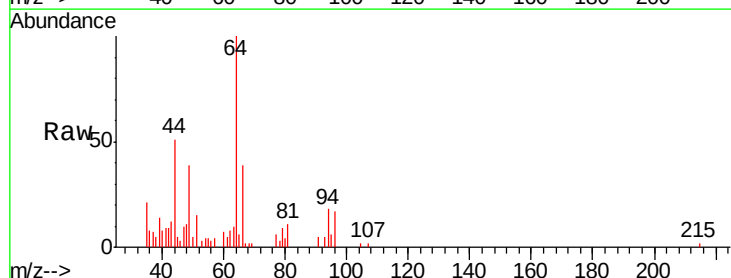
Acq: 27 Nov 2018 15:01

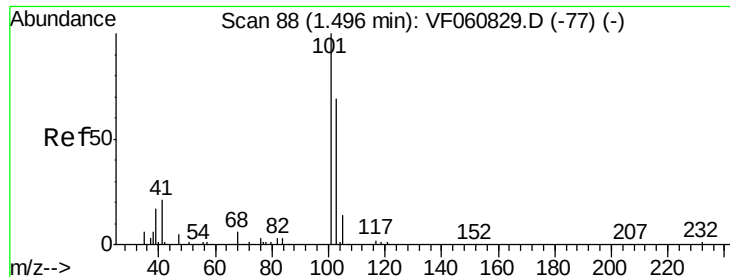
Tgt Ion: 64 Resp: 20325

Ion Ratio Lower Upper

64 100

66 39.1 28.1 42.1





#7

Trichlorofluoromethane

Concen: 21.42 ug/l

RT: 1.50 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 101 Resp: 89503

Ion Ratio Lower Upper

101 100

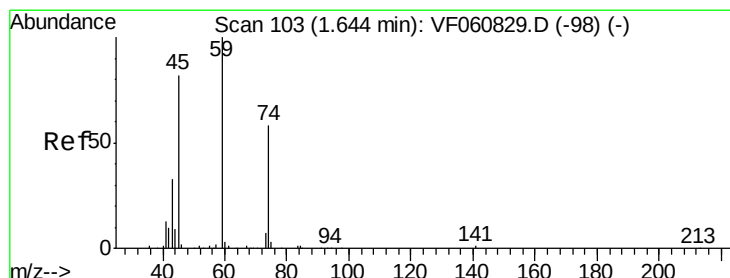
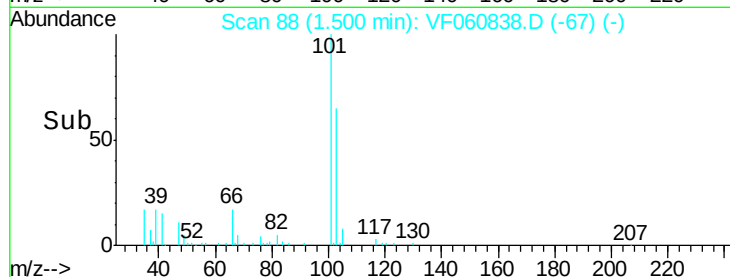
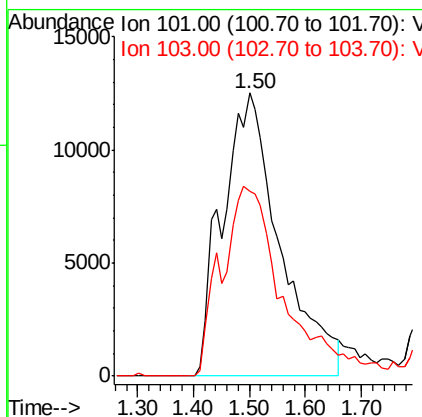
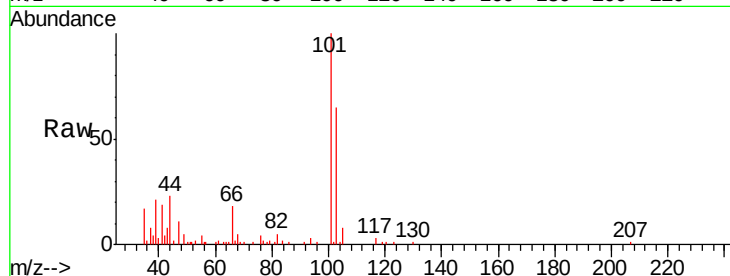
103 65.2 55.4 83.0

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#8

Diethyl Ether

Concen: 22.23 ug/l

RT: 1.65 min Scan# 103

Delta R.T. 0.00 min

Lab File: VF060838.D

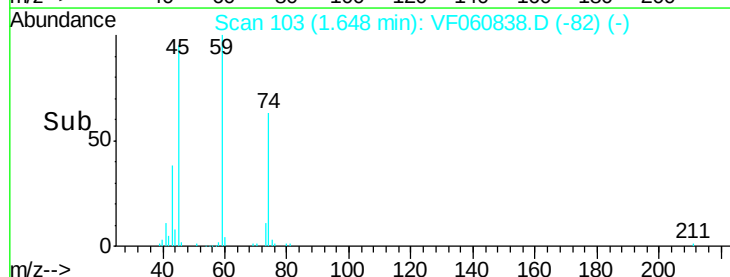
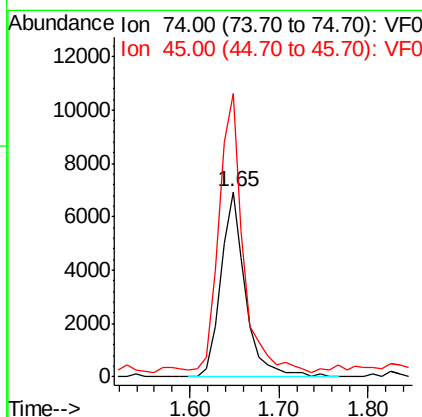
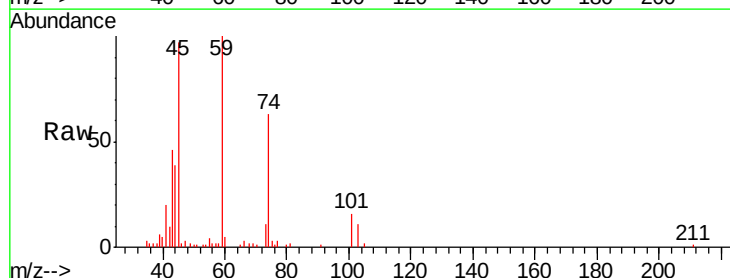
Acq: 27 Nov 2018 15:01

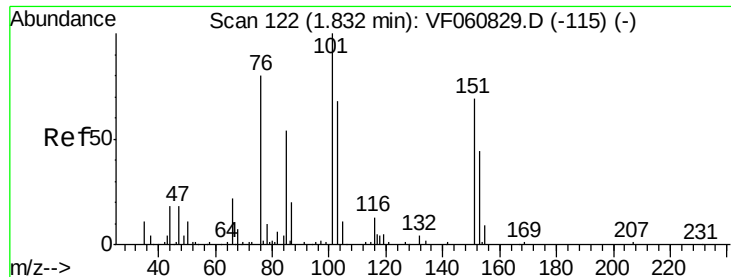
Tgt Ion: 74 Resp: 13357

Ion Ratio Lower Upper

74 100

45 152.8 71.0 212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.77 ug/l

RT: 1.86 min Scan# 124

Delta R.T. 0.02 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

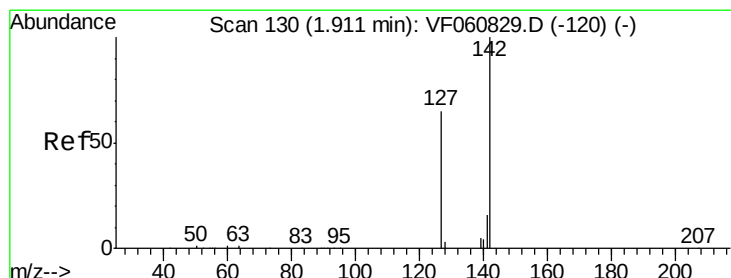
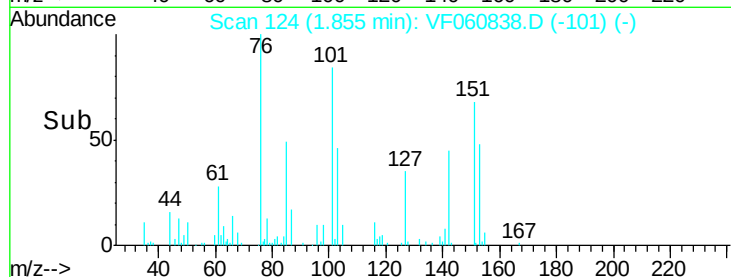
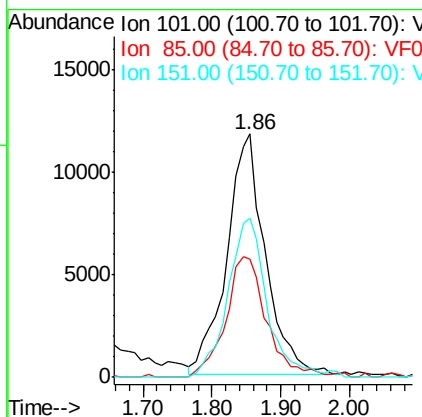
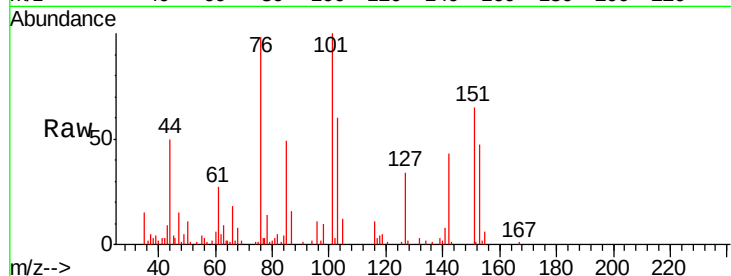
ClientSampleId :

VF1127SBS01

Tgt Ion:	101	Resp:	45988
Ion Ratio	Lower	Upper	
101	100		
85	48.7	42.8	64.2
151	66.3	54.4	81.6

Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM



#10

Methyl Iodide

Concen: 17.36 ug/l

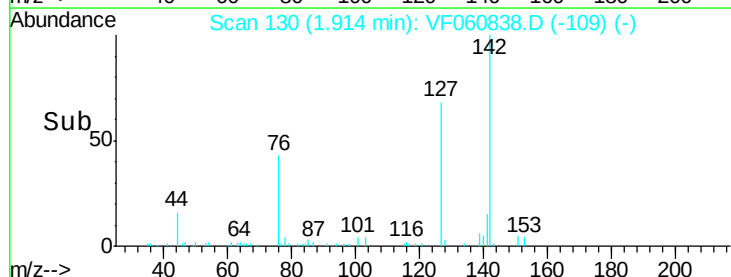
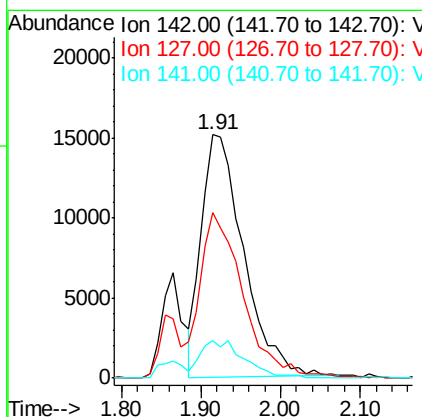
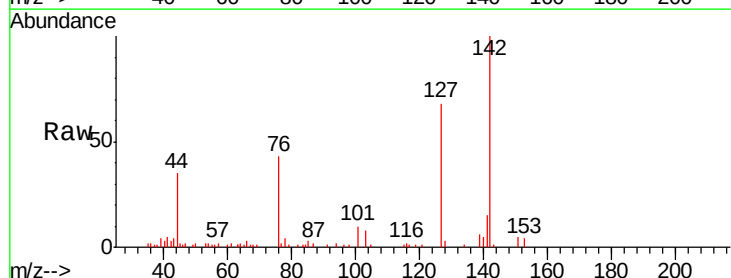
RT: 1.91 min Scan# 130

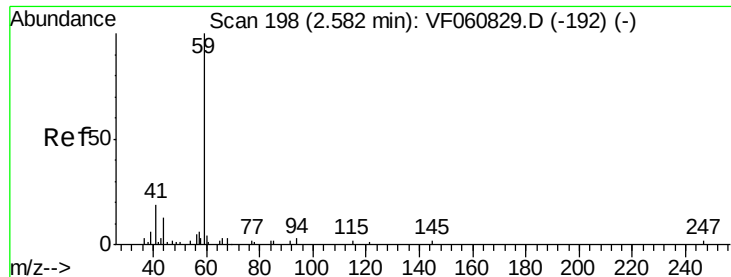
Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion:	142	Resp:	55734
Ion Ratio	Lower	Upper	
142	100		
127	67.9	51.9	77.9
141	15.4	12.7	19.1





#11

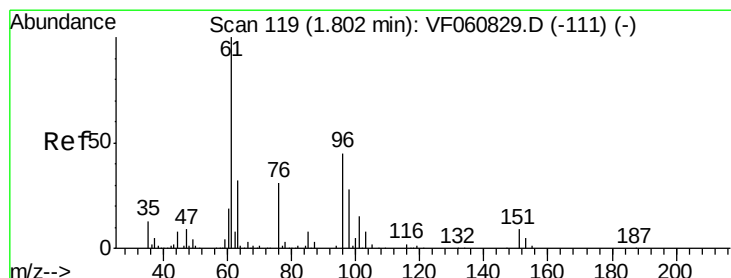
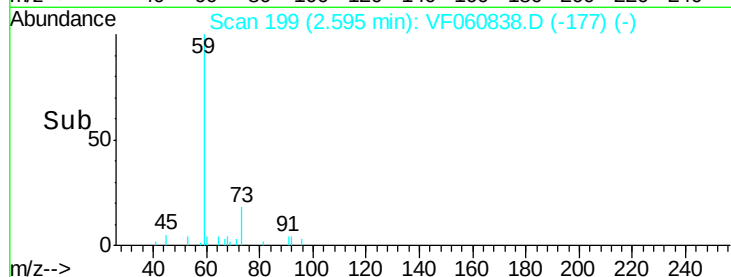
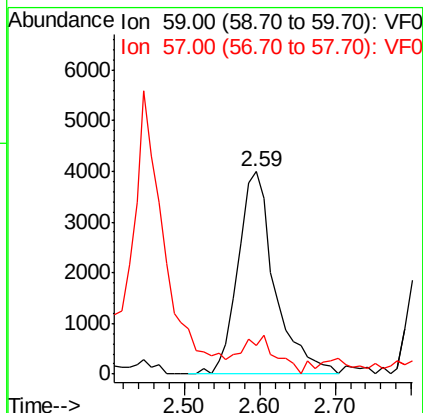
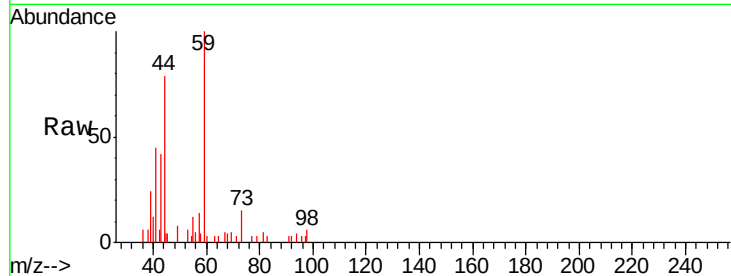
Tert butyl alcohol
 Concen: 129.48 ug/l
 RT: 2.59 min Scan# 199
 Delta R.T. 0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1127SBS01

Tgt Ion: 59 Resp: 13417
 Ion Ratio Lower Upper
 59 100
 57 14.3 12.7 19.1

Manual Integrations
 APPROVED

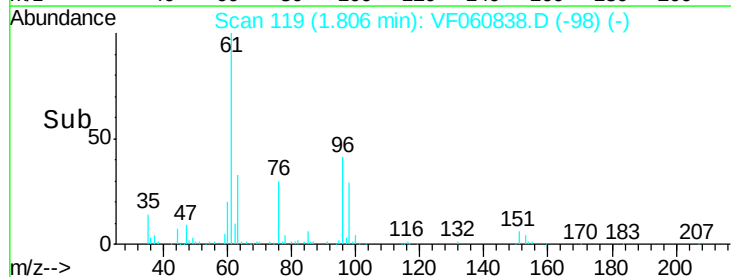
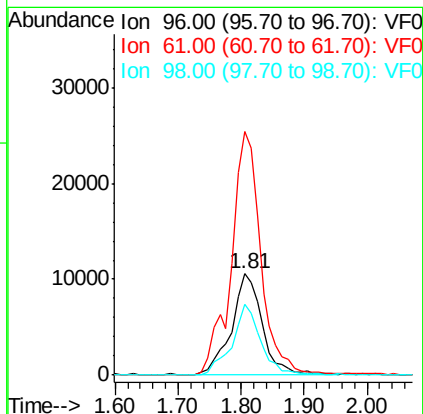
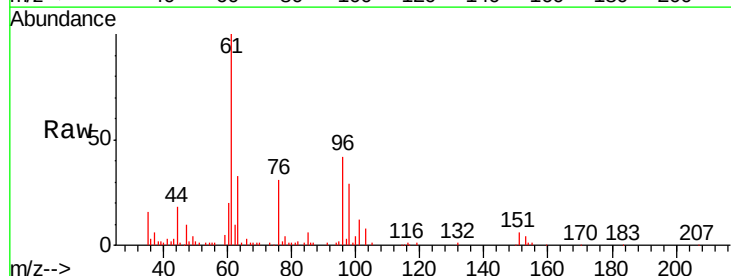
apatel
 11/28/2018 2:12:27 PM

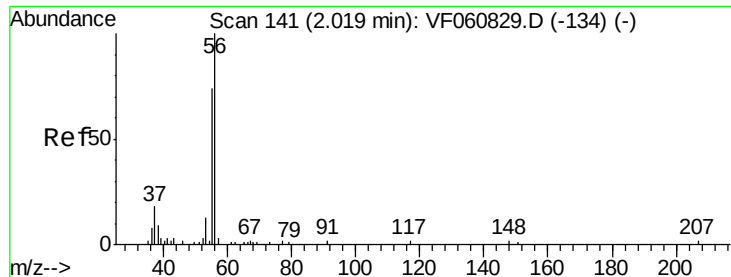


#12

1,1-Dichloroethene
 Concen: 21.23 ug/l
 RT: 1.81 min Scan# 119
 Delta R.T. 0.00 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Tgt Ion: 96 Resp: 36069
 Ion Ratio Lower Upper
 96 100
 61 240.5 177.3 265.9
 98 70.4 49.6 74.4





#13

Acrolein

Concen: 107.01 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 56 Resp: 10506

Ion Ratio Lower Upper

56 100

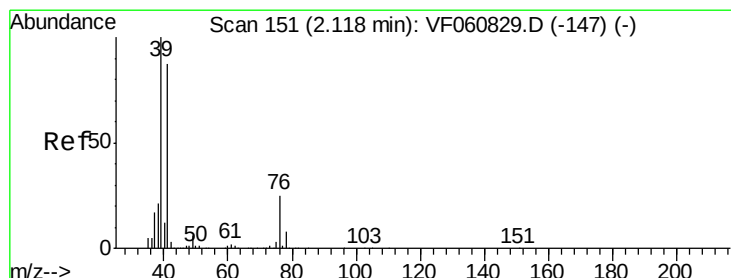
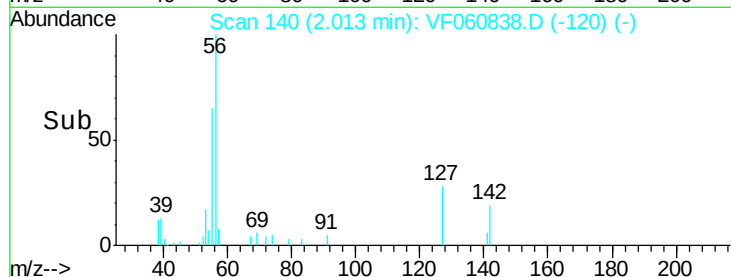
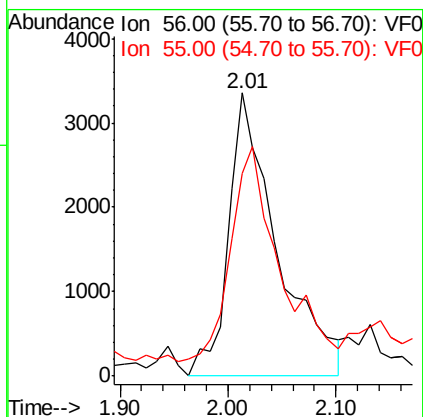
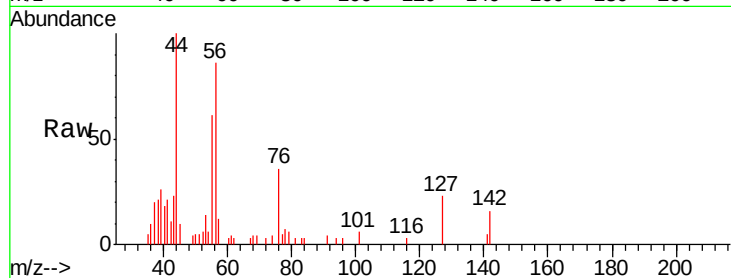
55 71.5 61.2 91.8

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#14

Allyl chloride

Concen: 21.38 ug/l

RT: 2.11 min Scan# 150

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

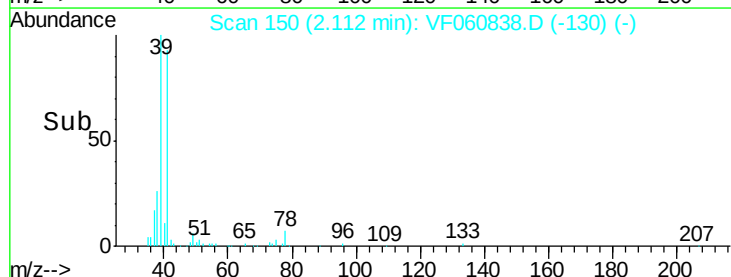
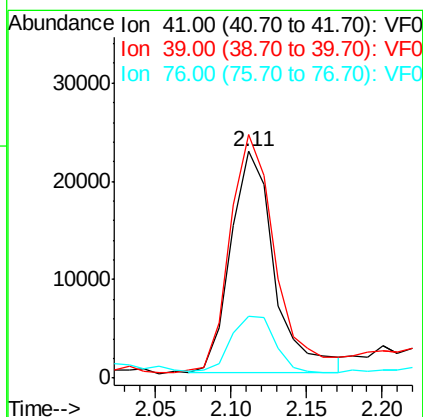
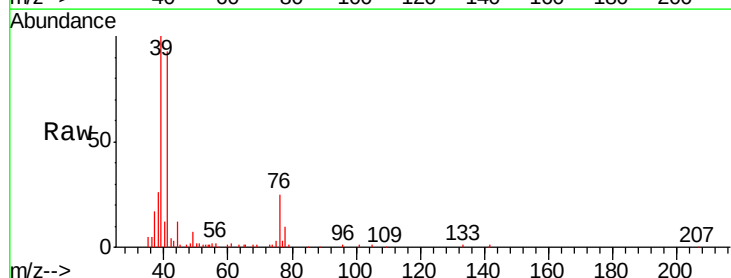
Tgt Ion: 41 Resp: 45279

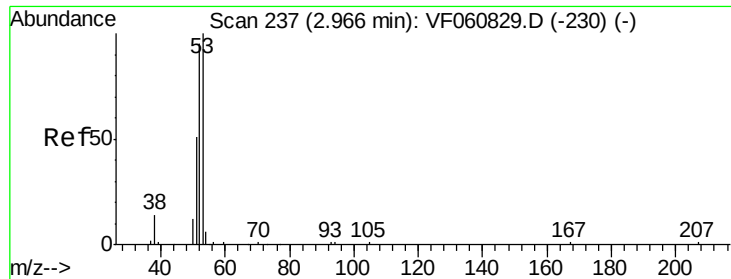
Ion Ratio Lower Upper

41 100

39 107.5 91.7 137.5

76 27.2 23.5 35.3





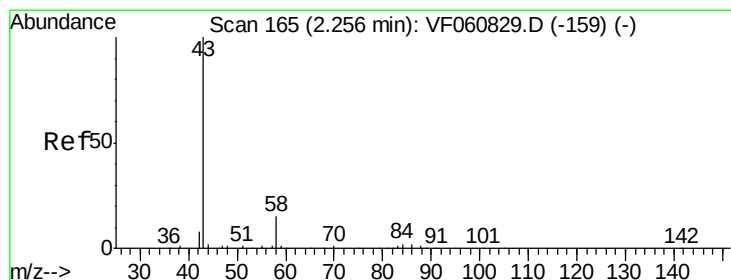
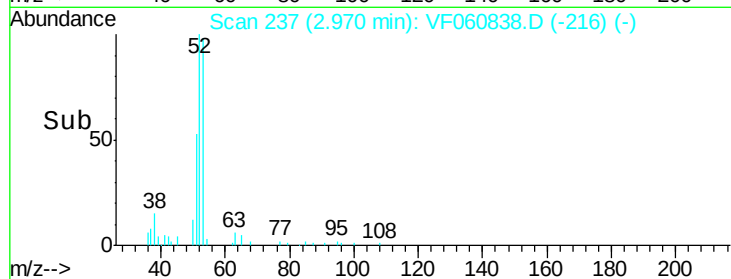
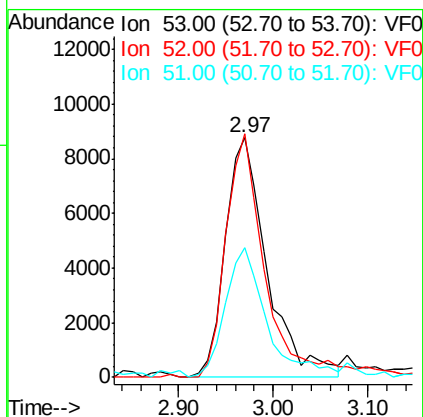
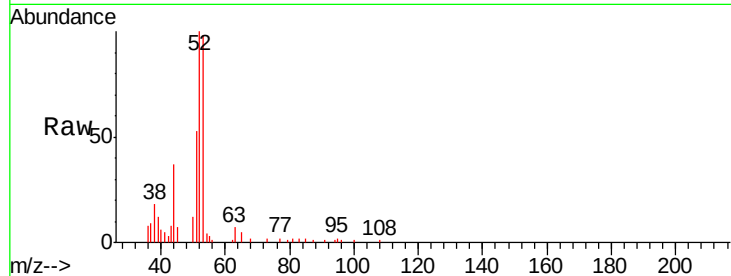
#15
 Acrylonitrile
 Concen: 115.65 ug/l
 RT: 2.97 min Scan# 237
 Delta R.T. 0.00 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1127SBS01

Tgt Ion	Ratio	Lower	Upper
53	100		
52	101.7	76.5	114.7
51	54.3	40.7	61.1

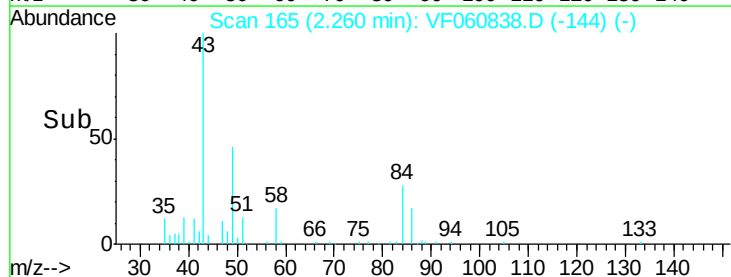
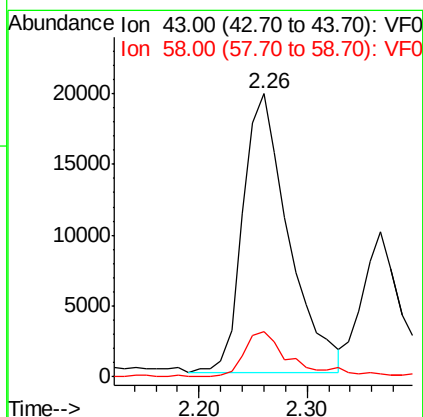
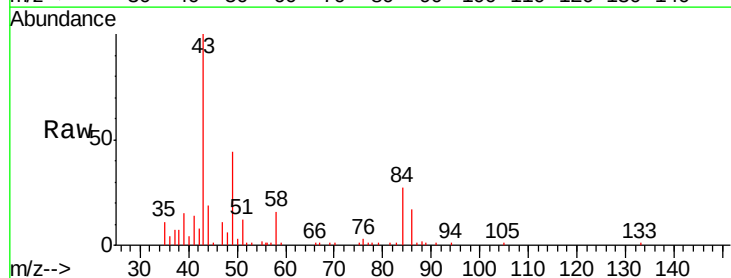
Manual Integrations
 APPROVED

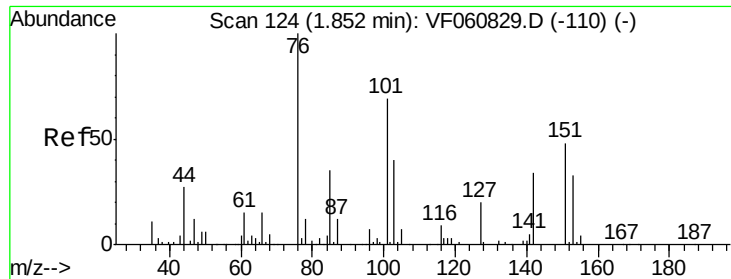
apatel
 11/28/2018 2:12:27 PM



#16
 Acetone
 Concen: 123.51 ug/l
 RT: 2.26 min Scan# 165
 Delta R.T. 0.00 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	16.0	11.4	17.2





#17

Carbon Disulfide

Concen: 22.20 ug/l m

RT: 1.85 min Scan# 123

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 76 Resp: 101126

Ion Ratio Lower Upper

76 100

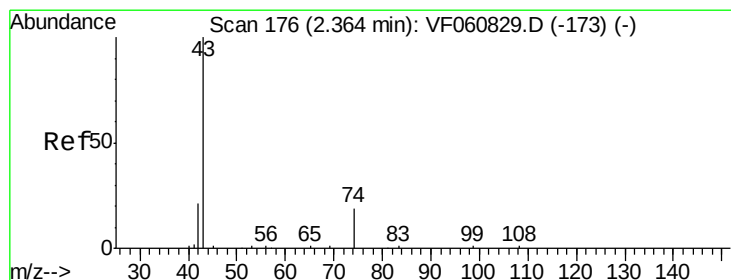
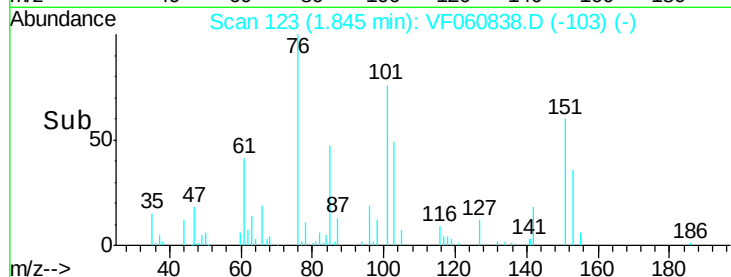
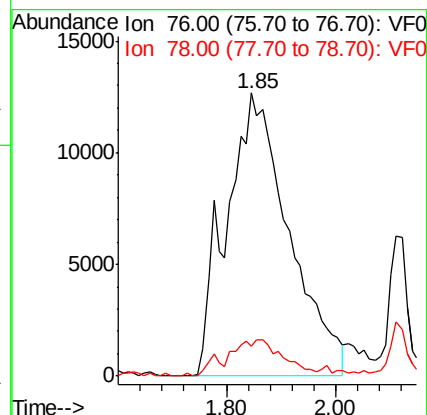
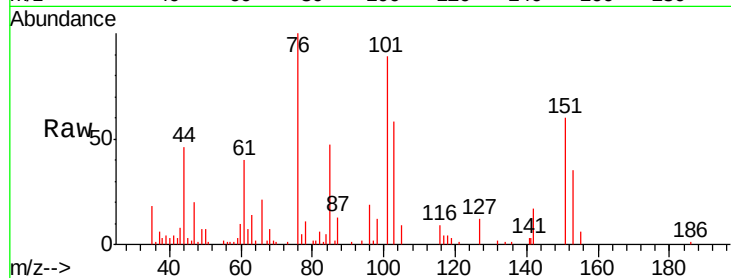
78 10.7 10.2 15.2

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#18

Methyl Acetate

Concen: 27.39 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.00 min

Lab File: VF060838.D

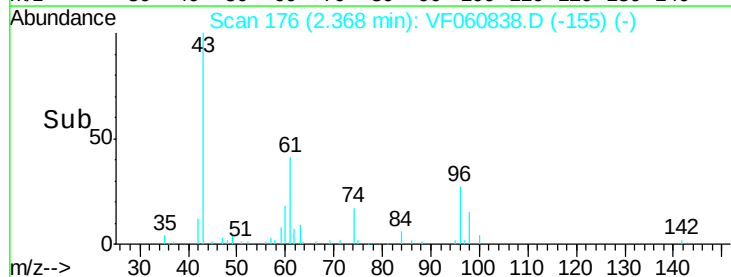
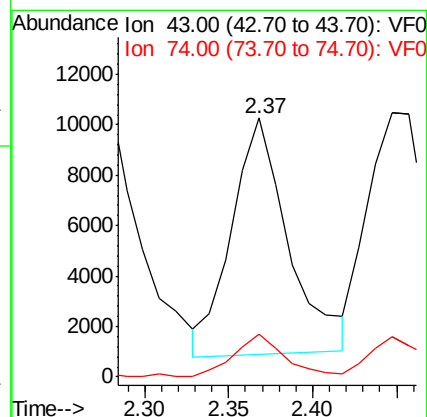
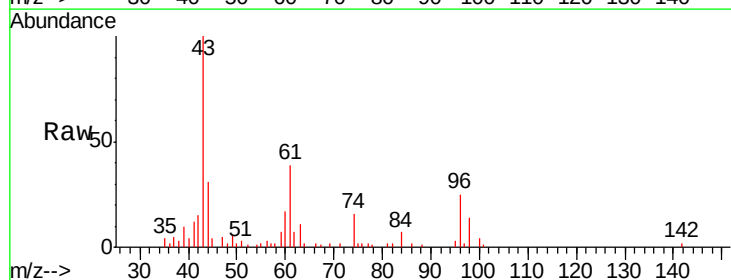
Acq: 27 Nov 2018 15:01

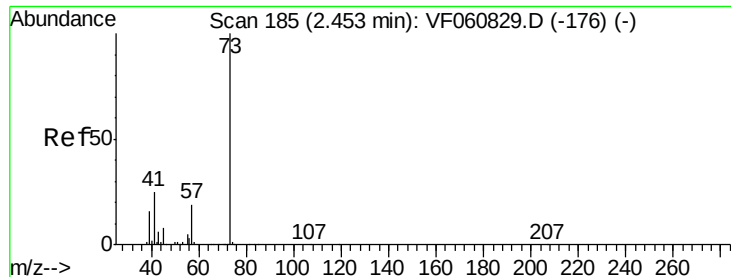
Tgt Ion: 43 Resp: 22005

Ion Ratio Lower Upper

43 100

74 16.3 13.3 19.9





#19

Methyl tert-butyl Ether

Concen: 22.65 ug/l

RT: 2.45 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 73 Resp: 86671

Ion Ratio Lower Upper

73 100

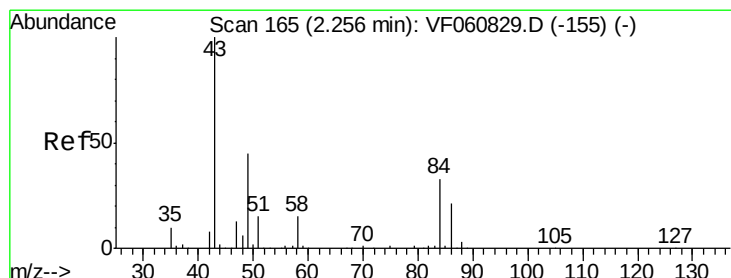
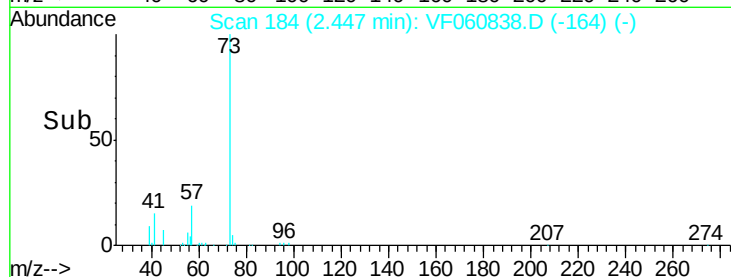
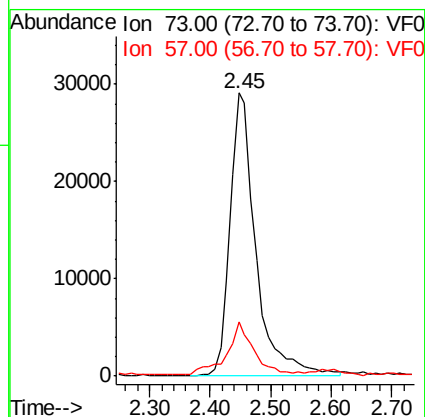
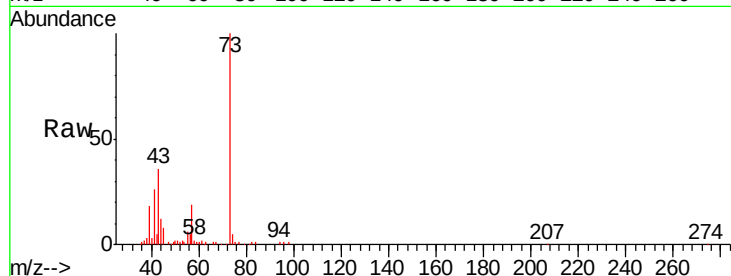
57 19.2 15.3 22.9

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#20

Methylene Chloride

Concen: 21.28 ug/l m

RT: 2.27 min Scan# 166

Delta R.T. 0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion: 84 Resp: 36392

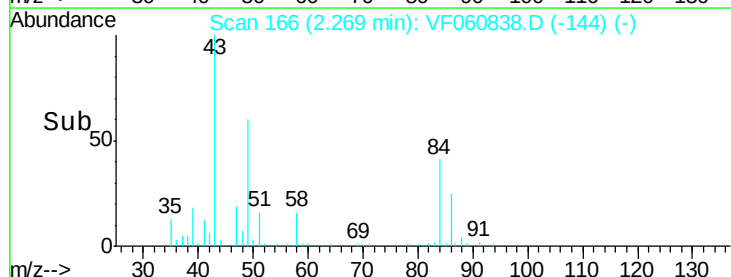
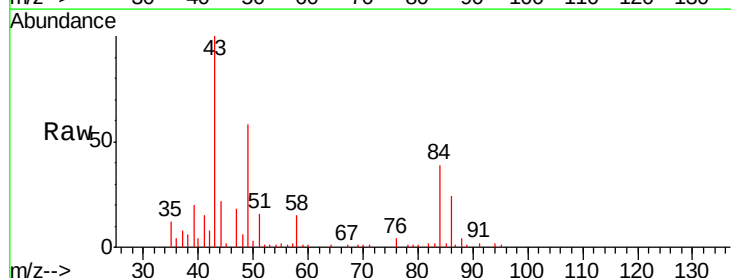
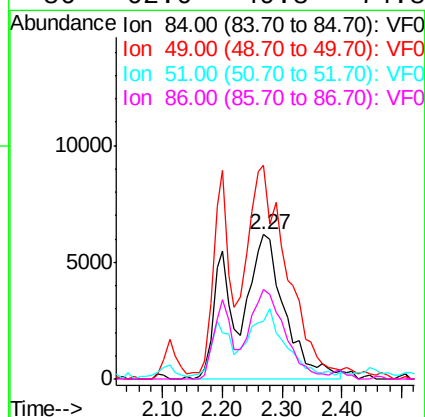
Ion Ratio Lower Upper

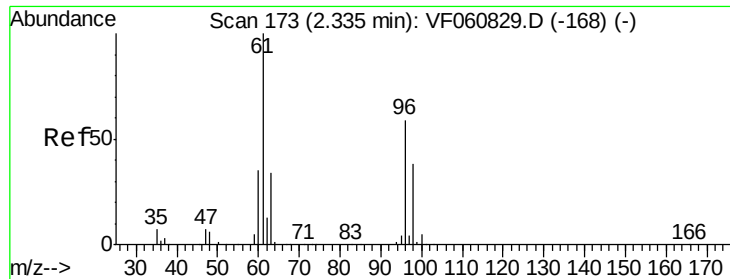
84 100

49 147.8 111.3 166.9

51 39.9 38.0 57.0

86 62.0 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 22.09 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

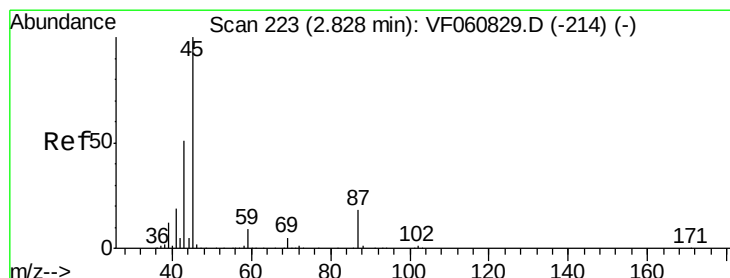
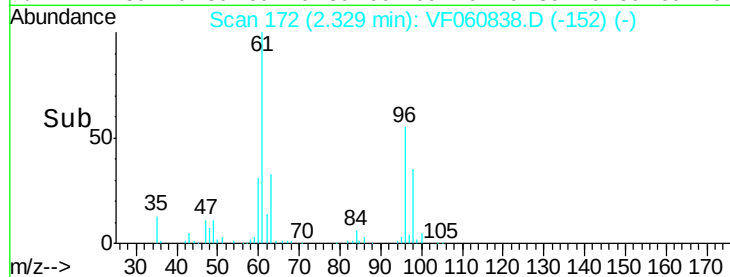
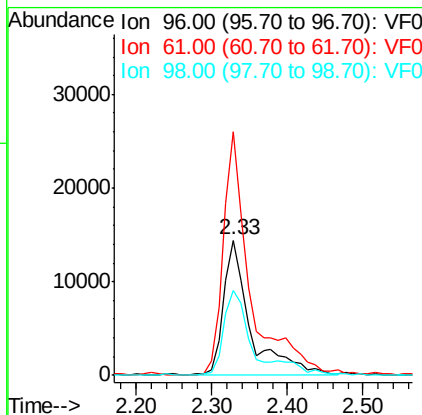
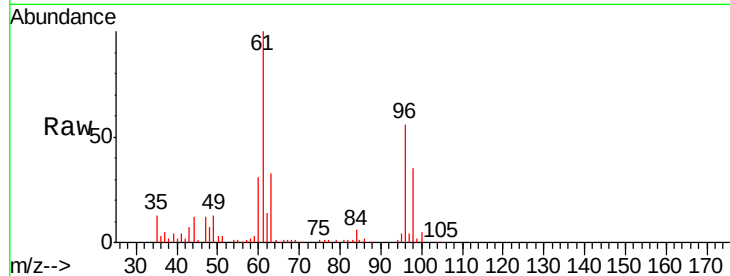
ClientSampleId :

VF1127SBS01

Tgt Ion:	96	Resp:	36192
Ion	Ratio	Lower	Upper
96	100		
61	180.0	134.5	201.7
98	63.1	51.6	77.4

Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM



#22

Diisopropyl ether

Concen: 23.71 ug/l

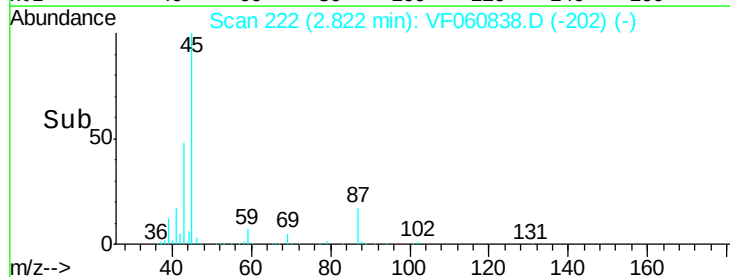
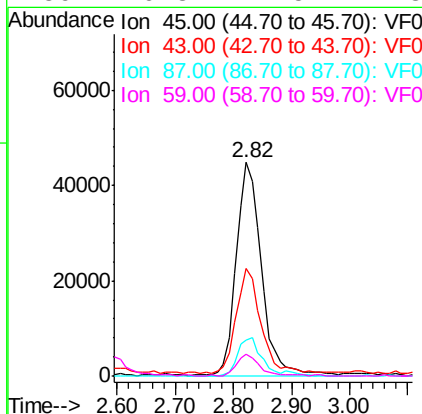
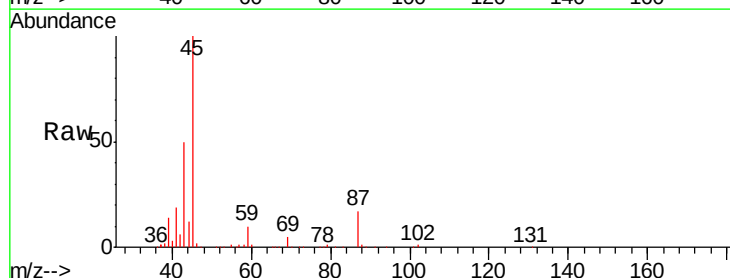
RT: 2.82 min Scan# 222

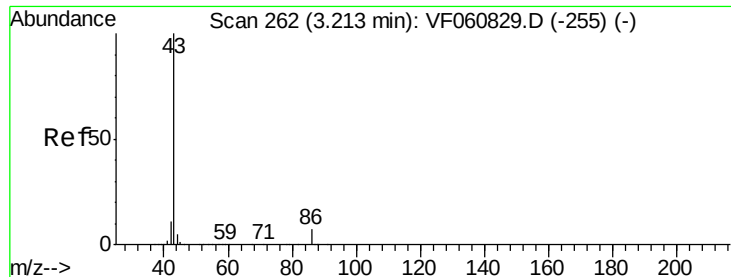
Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion:	45	Resp:	136653
Ion	Ratio	Lower	Upper
45	100		
43	50.2	41.0	61.6
87	16.8	14.6	22.0
59	10.3	7.5	11.3





#23

Vinyl Acetate

Concen: 125.97 ug/l

RT: 3.22 min Scan# 262

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 43 Resp: 331954

Ion Ratio Lower Upper

43 100

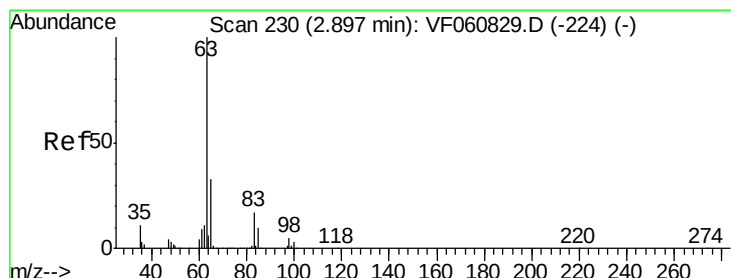
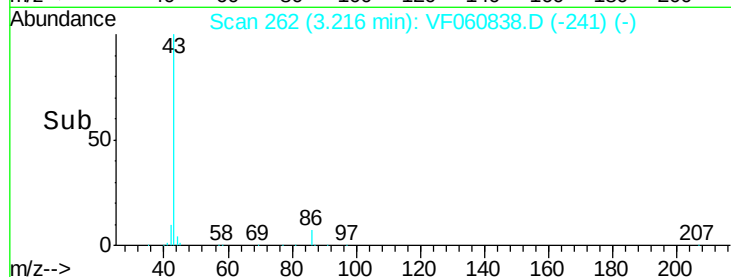
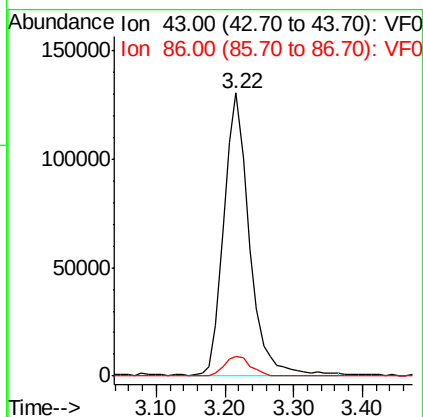
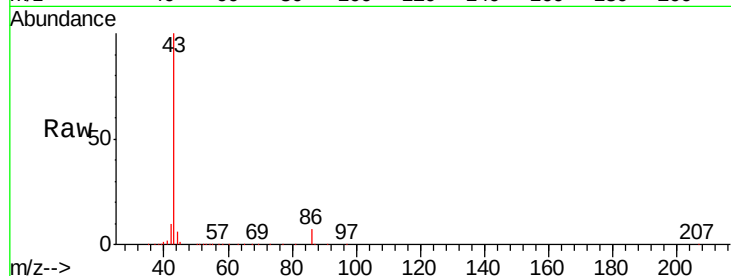
86 6.9 5.4 8.0

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#24

1,1-Dichloroethane

Concen: 21.38 ug/l

RT: 2.90 min Scan# 230

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

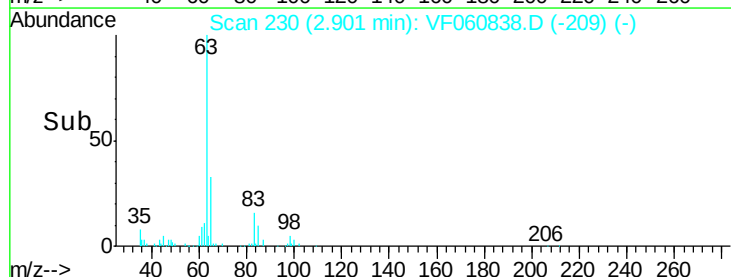
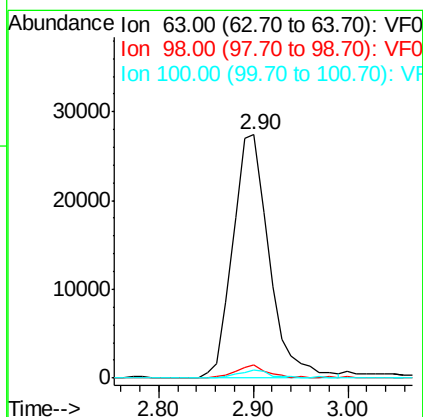
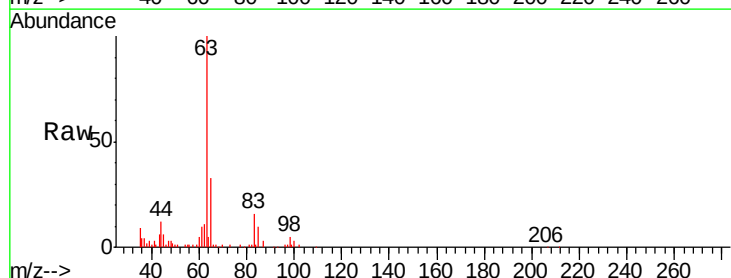
Tgt Ion: 63 Resp: 73326

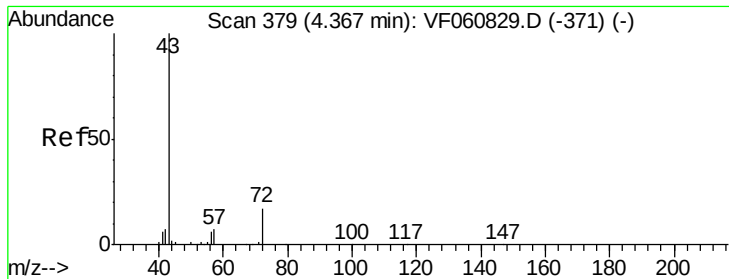
Ion Ratio Lower Upper

63 100

98 5.3 2.7 8.1

100 3.5 1.5 4.5





#25

2-Butanone

Concen: 121.33 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 43 Resp: 97829

Ion Ratio Lower Upper

43 100

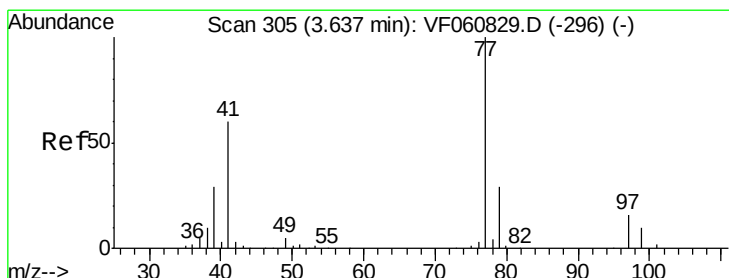
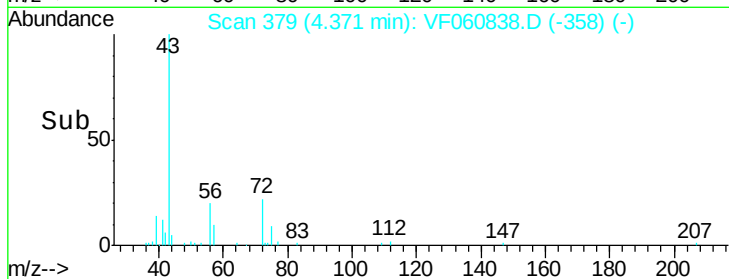
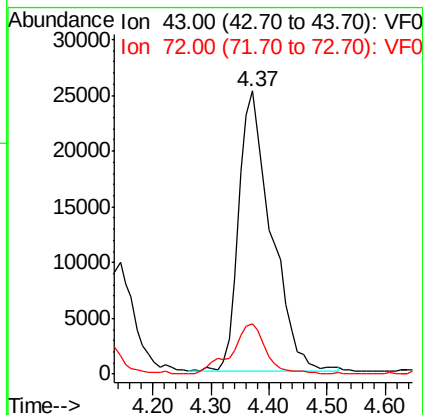
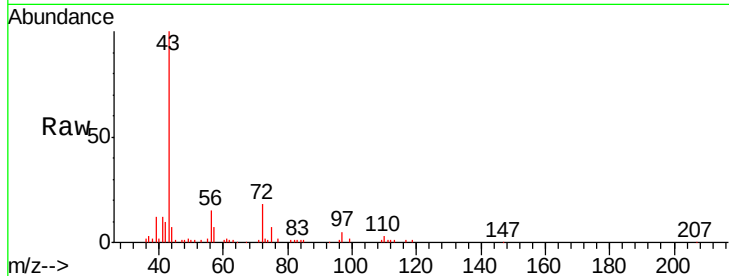
72 18.0 15.4 23.2

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#26

2,2-Dichloropropane

Concen: 21.55 ug/l

RT: 3.63 min Scan# 304

Delta R.T. -0.01 min

Lab File: VF060838.D

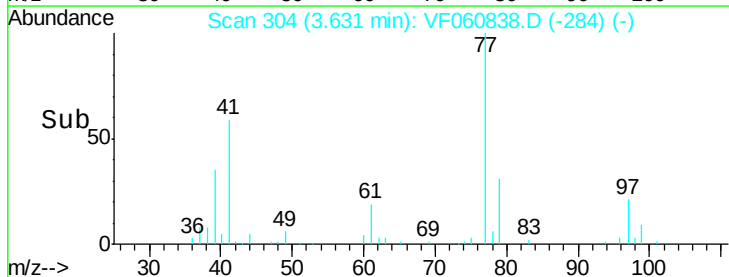
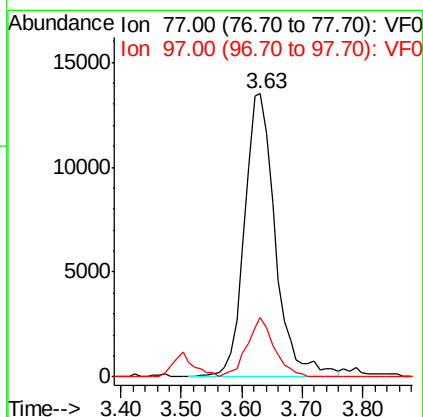
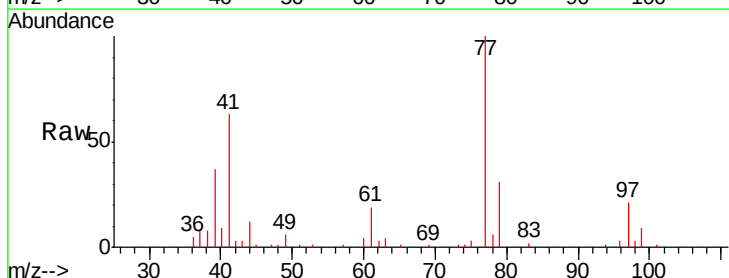
Acq: 27 Nov 2018 15:01

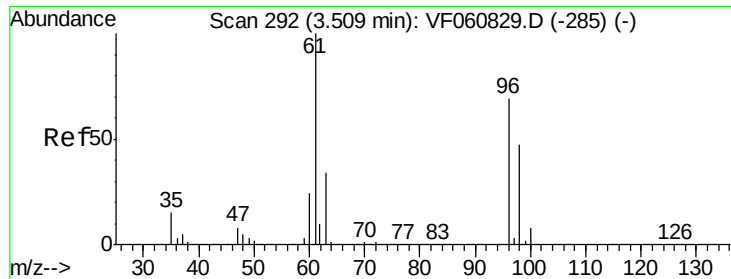
Tgt Ion: 77 Resp: 47919

Ion Ratio Lower Upper

77 100

97 21.2 8.6 25.8





#27

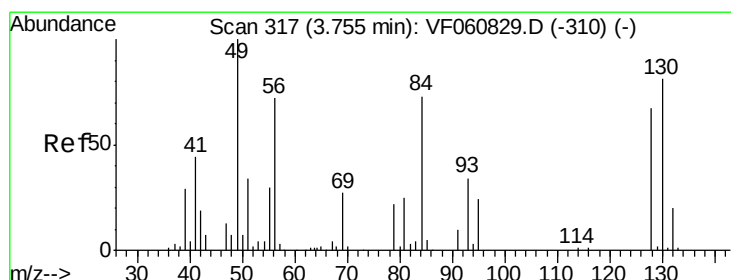
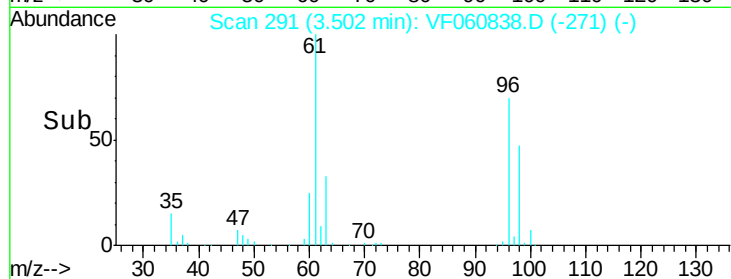
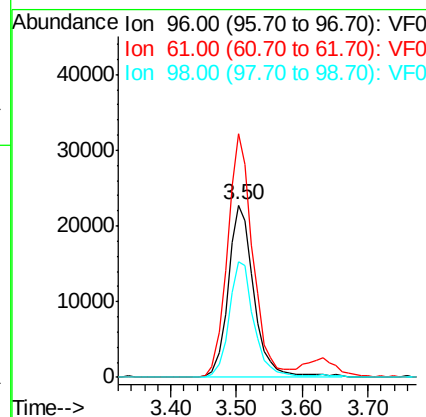
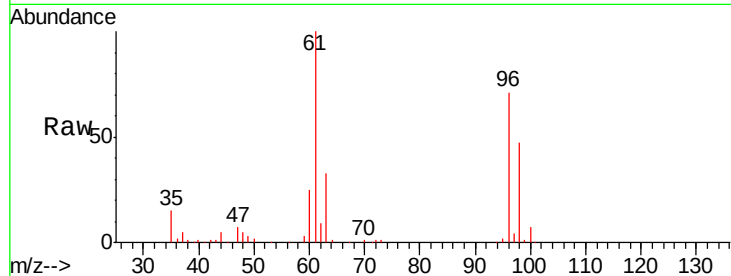
cis-1,2-Dichloroethene
Concen: 23.41 ug/l
RT: 3.50 min Scan# 291
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.4	0.0	290.6
98	67.0	0.0	137.8

Manual Integrations
APPROVED

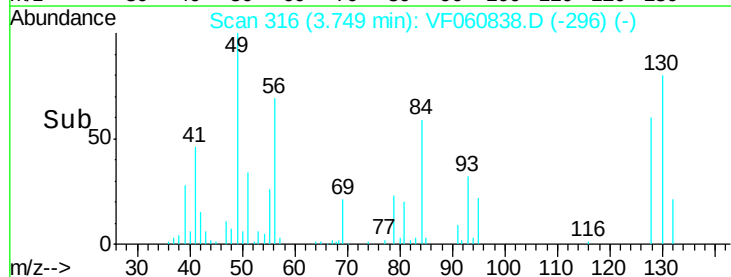
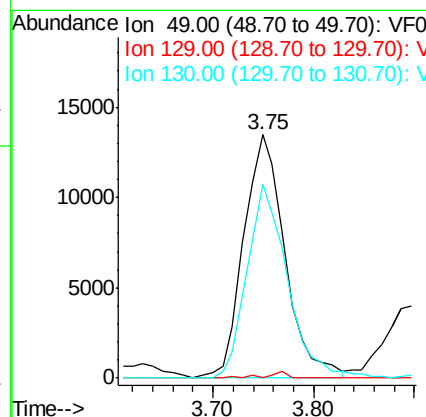
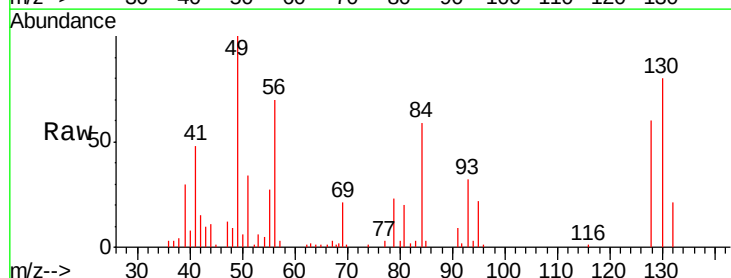
apatel
11/28/2018 2:12:27 PM

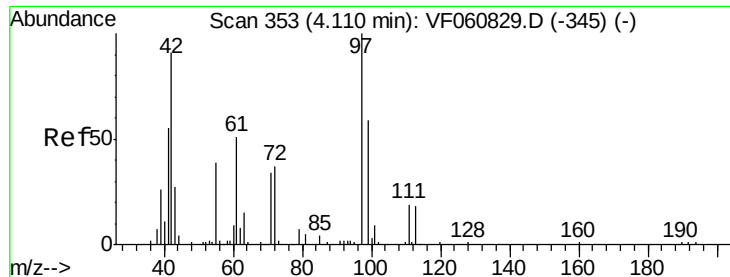


#28

Bromochloromethane
Concen: 23.37 ug/l
RT: 3.75 min Scan# 316
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	79.6	64.2	96.4





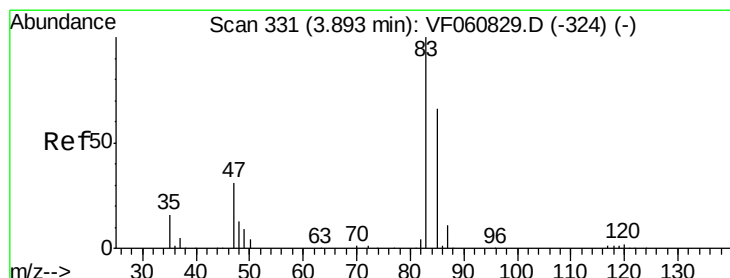
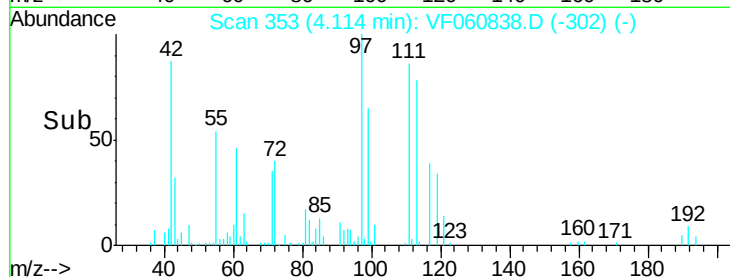
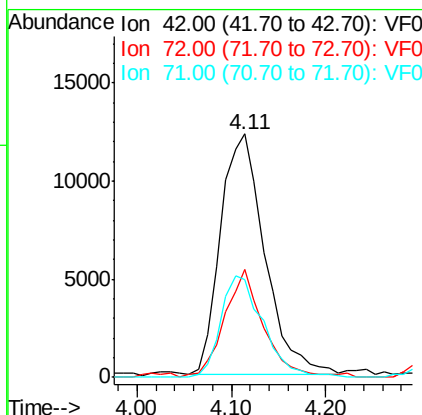
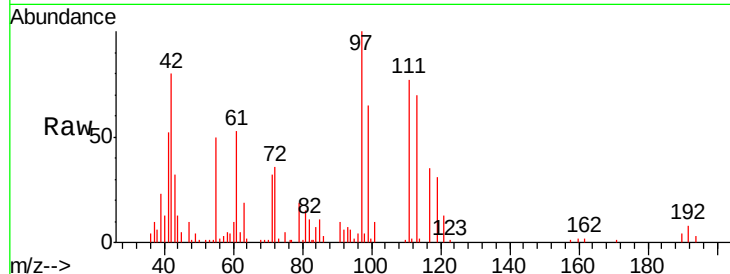
#29
Tetrahydrofuran
Concen: 116.16 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	40.0	31.9	47.9
71	40.7	28.7	43.1

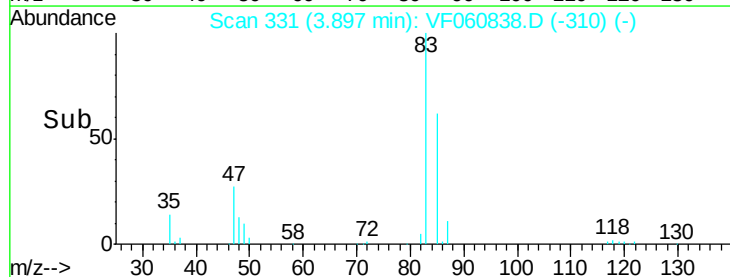
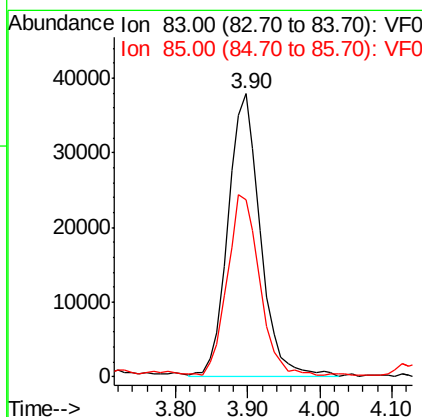
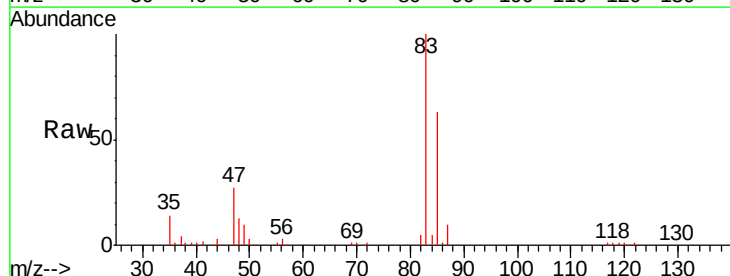
Manual Integrations
APPROVED

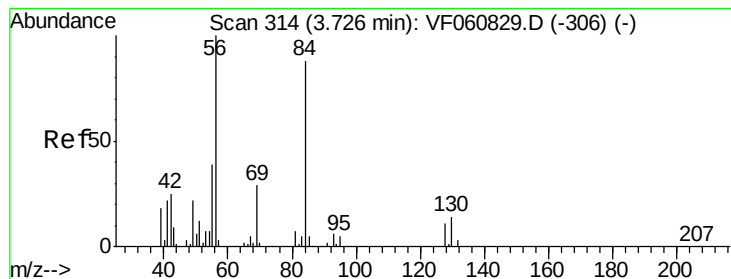
apatel
11/28/2018 2:12:27 PM



#30
Chloroform
Concen: 22.49 ug/l
RT: 3.90 min Scan# 331
Delta R.T. 0.00 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.7	53.4	80.2





#31

Cyclohexane

Concen: 23.49 ug/l m

RT: 3.72 min Scan# 313

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

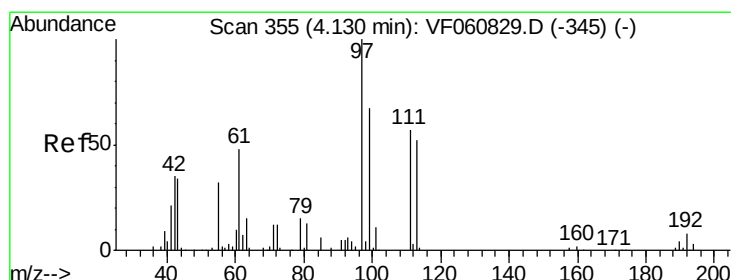
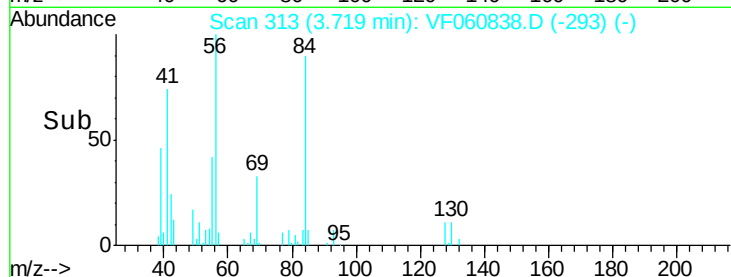
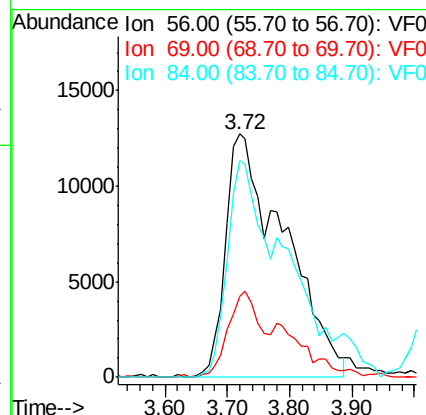
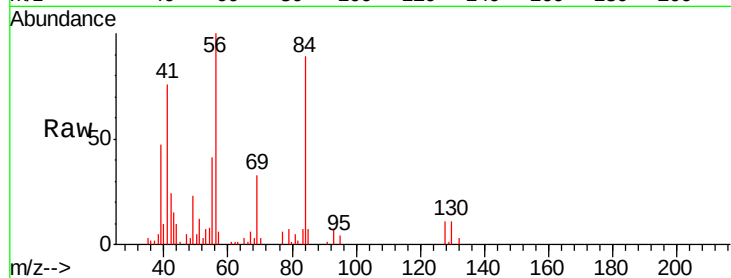
ClientSampleId :

VF1127SBS01

Tgt Ion:	56	Resp:	83606
Ion Ratio	Lower	Upper	
56	100		
69	33.1	23.0	34.4
84	89.2	70.4	105.6

Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM



#32

1,1,1-Trichloroethane

Concen: 19.93 ug/l

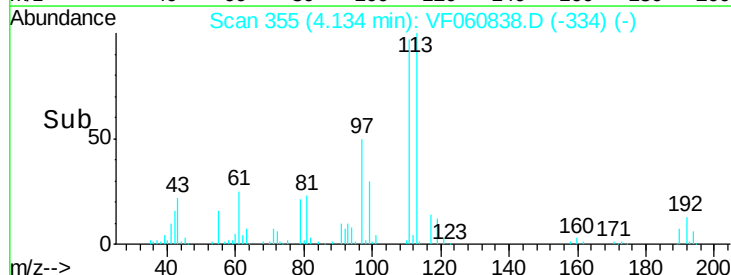
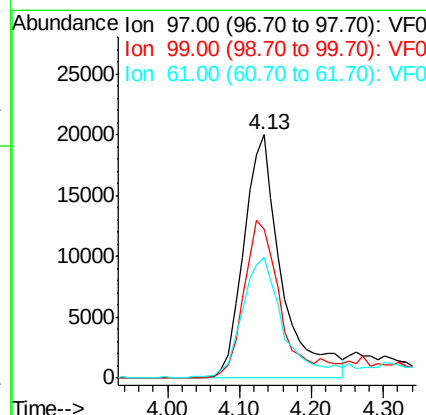
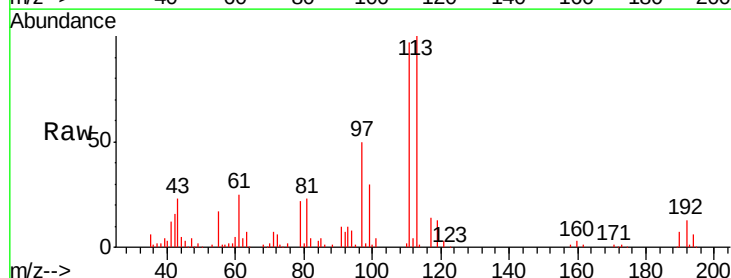
RT: 4.13 min Scan# 355

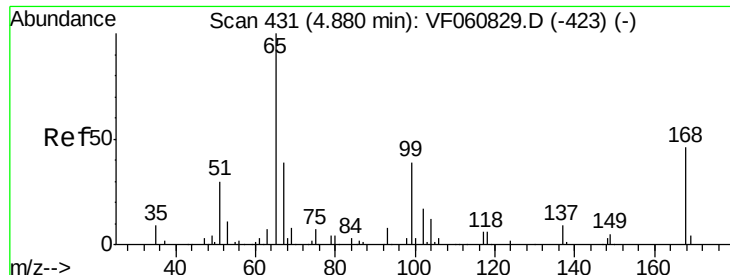
Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion:	97	Resp:	72974
Ion Ratio	Lower	Upper	
97	100		
99	61.3	53.5	80.3
61	49.8	38.6	58.0





#33

1,2-Dichloroethane-d4

Concen: 53.63 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 65 Resp: 135571

Ion Ratio Lower Upper

65 100

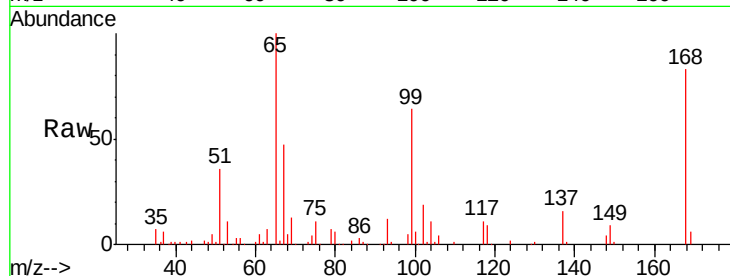
67 47.4 0.0 96.4

Manual Integrations

APPROVED

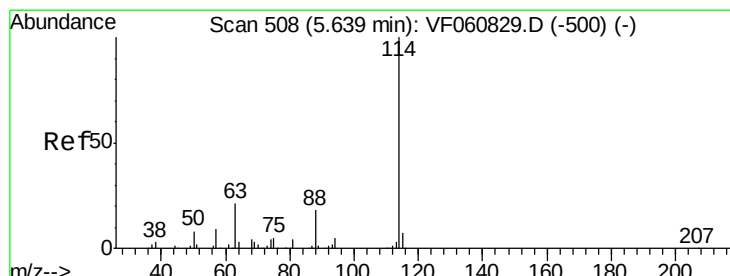
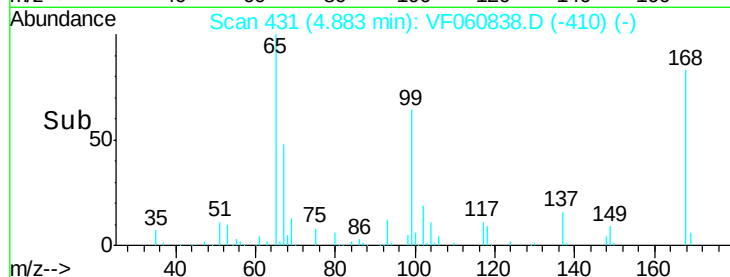
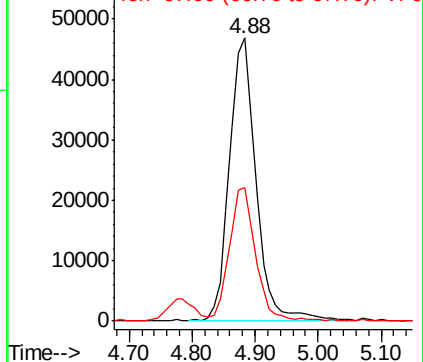
apatel

11/28/2018 2:12:27 PM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 507

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

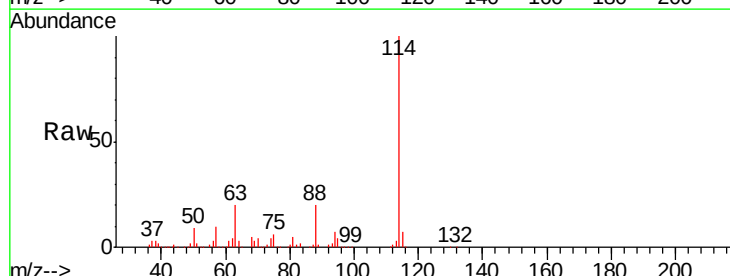
Tgt Ion: 114 Resp: 368070

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.6

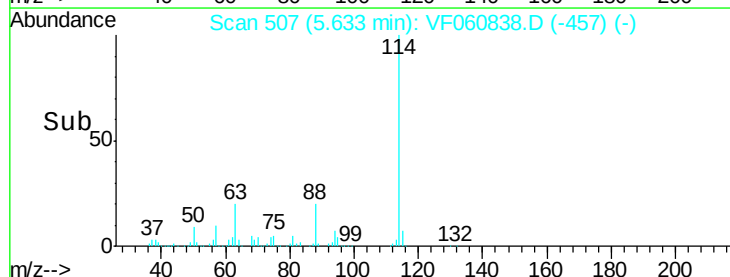
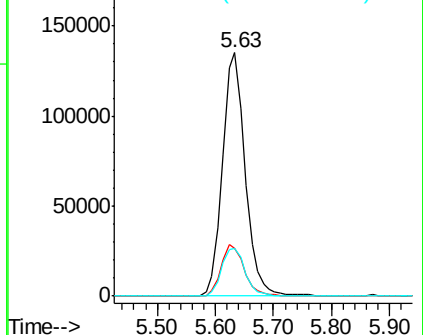
88 19.6 0.0 36.6

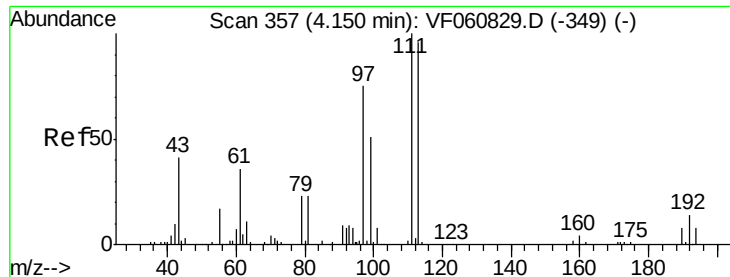


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





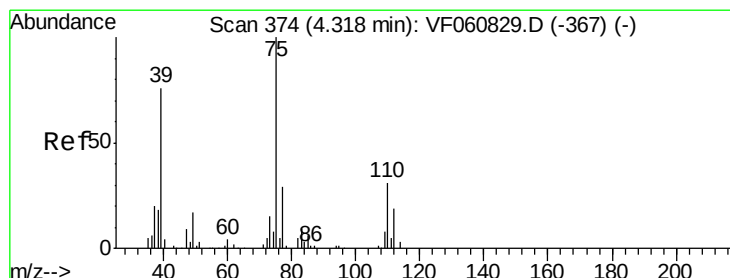
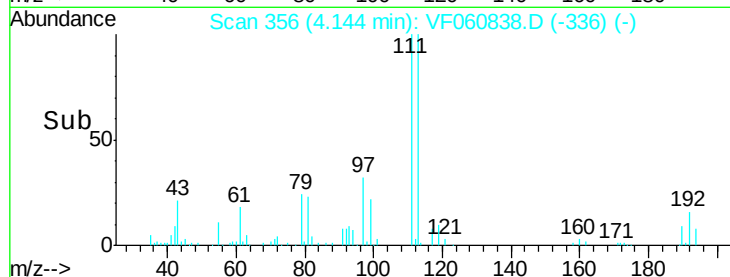
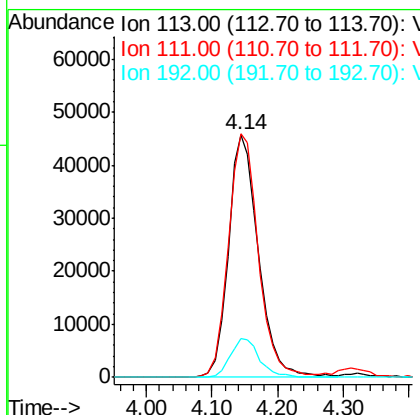
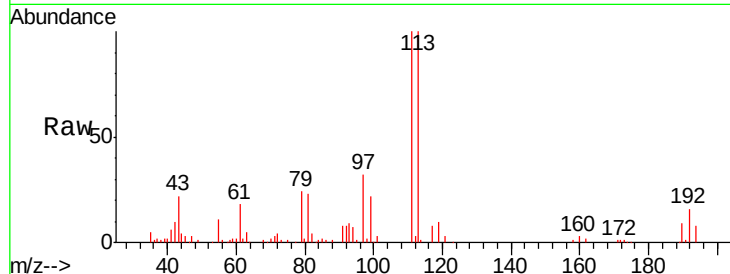
#35
Dibromofluoromethane
Concen: 49.92 ug/l
RT: 4.14 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	145779		
111	100.2	83.0	124.6	
192	16.2	12.3	18.5	

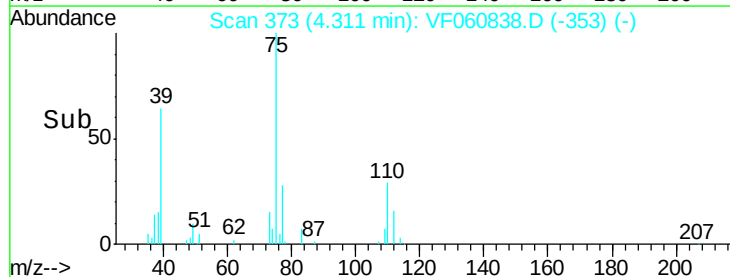
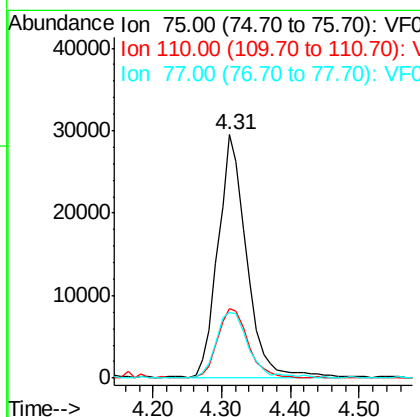
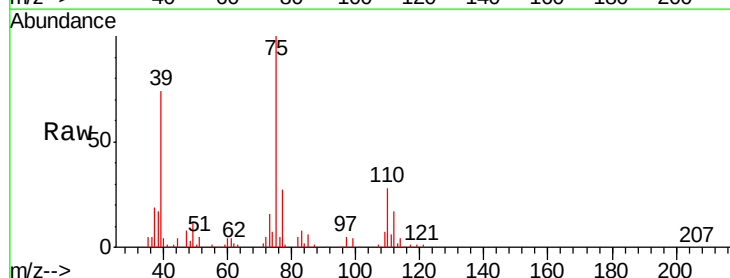
Manual Integrations
APPROVED

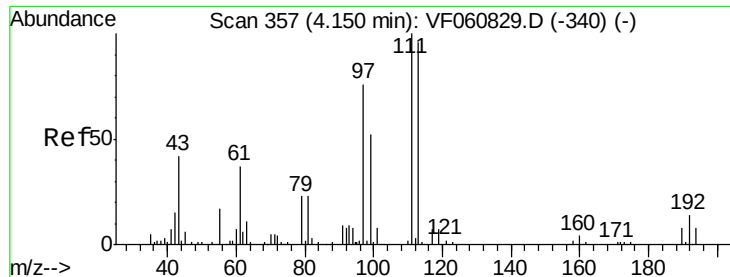
apatel
11/28/2018 2:12:27 PM



#36
1,1-Dichloropropene
Concen: 20.95 ug/l
RT: 4.31 min Scan# 373
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	85548		
110	28.5	15.6	46.8	
77	26.9	23.4	35.0	





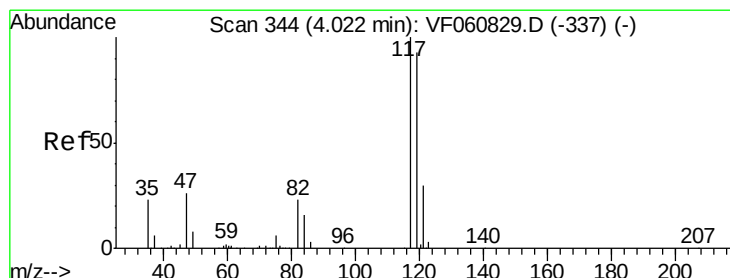
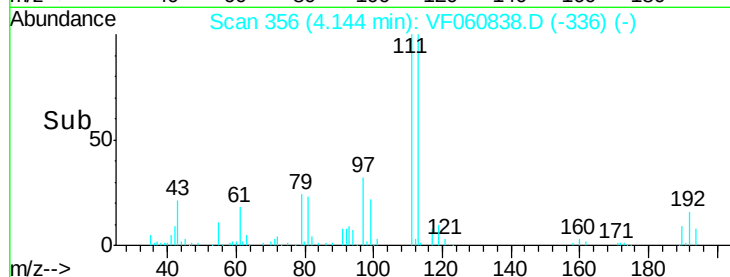
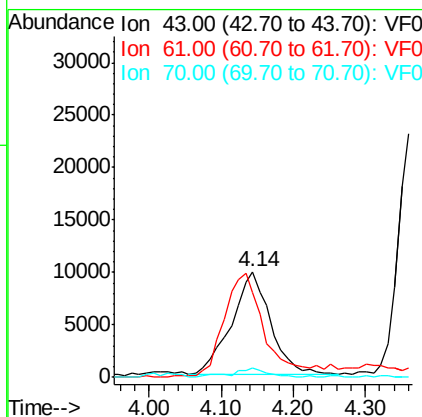
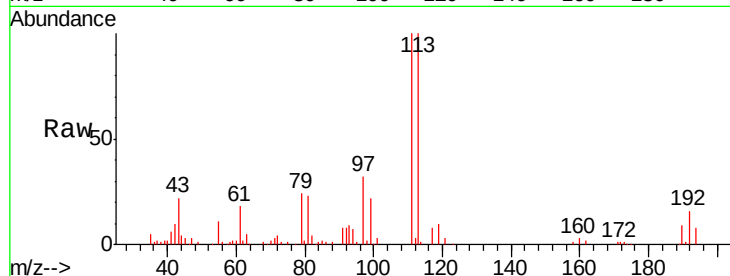
#37
Ethyl Acetate
Concen: 22.39 ug/l
RT: 4.14 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	80.0	68.6	103.0
70	9.1	9.0	13.4

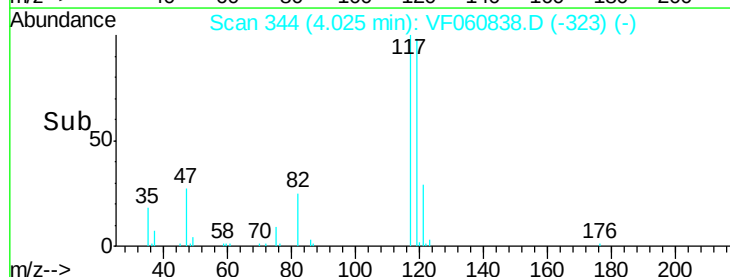
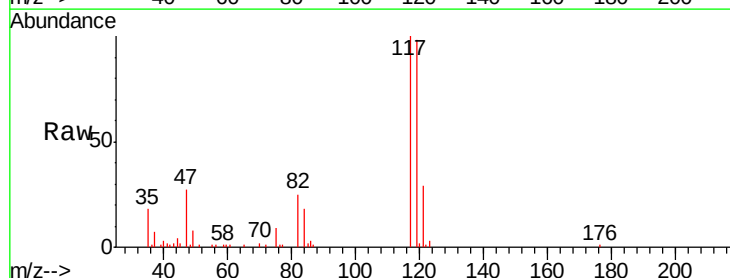
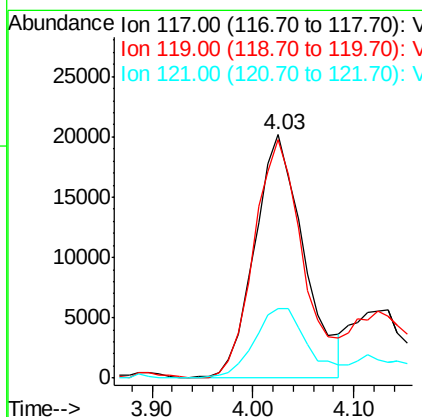
Manual Integrations
APPROVED

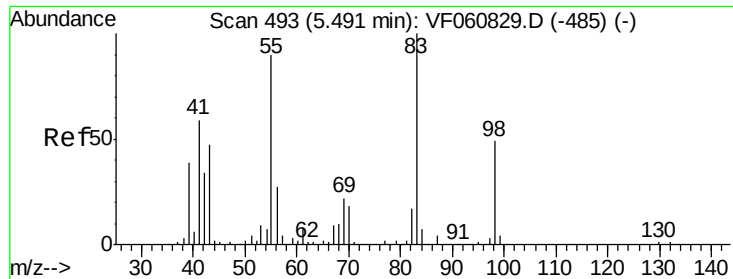
apatel
11/28/2018 2:12:27 PM



#38
Carbon Tetrachloride
Concen: 19.05 ug/l
RT: 4.03 min Scan# 344
Delta R.T. 0.00 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.0	74.4	111.6
121	28.7	23.5	35.3





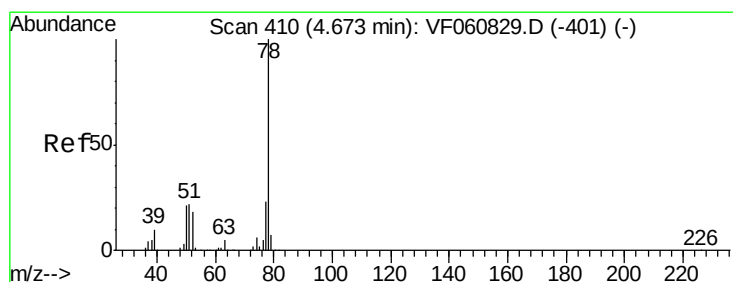
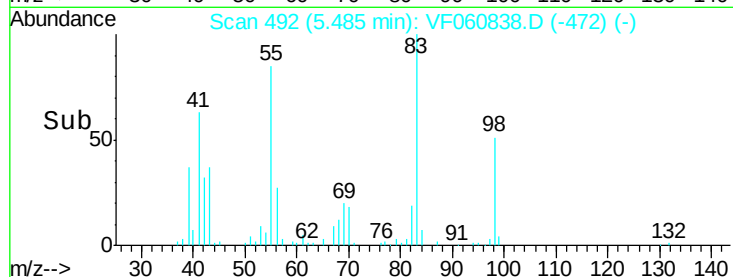
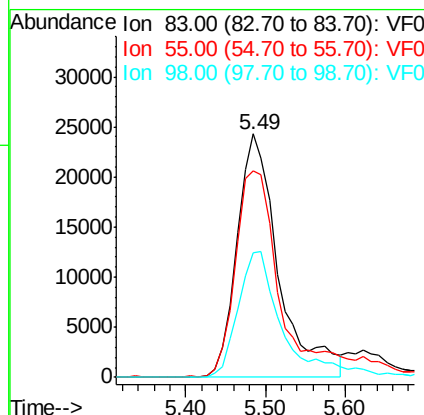
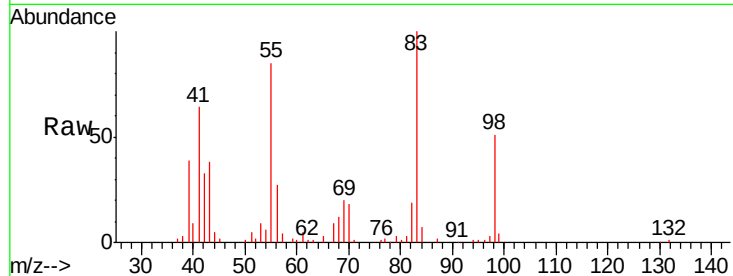
#39
Methylcyclohexane
Concen: 20.59 ug/l
RT: 5.49 min Scan# 492
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	84.7	72.1	108.1
98	51.4	39.1	58.7

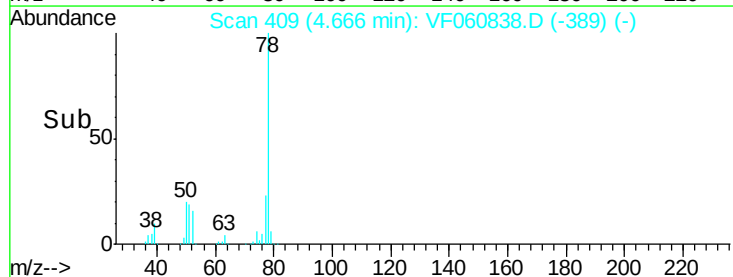
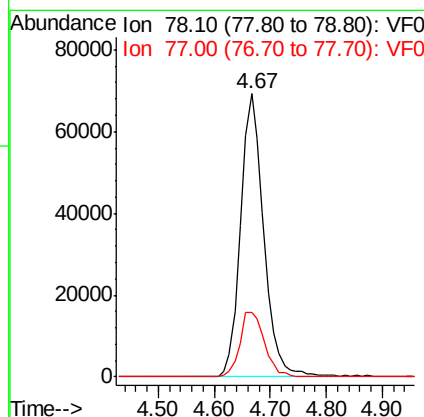
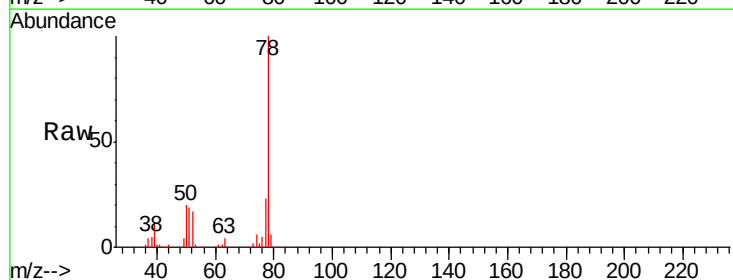
Manual Integrations
APPROVED

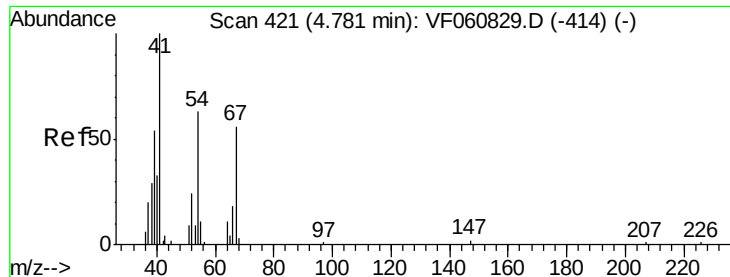
apatel
11/28/2018 2:12:27 PM



#40
Benzene
Concen: 21.97 ug/l
RT: 4.67 min Scan# 409
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.7	28.1





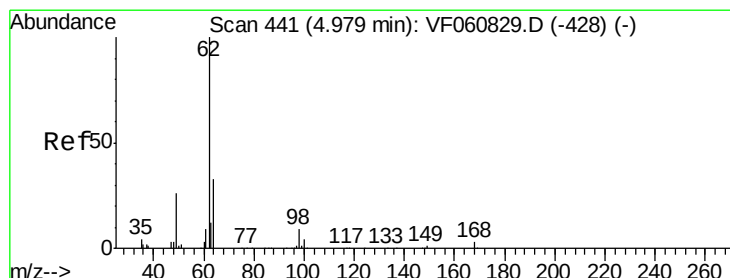
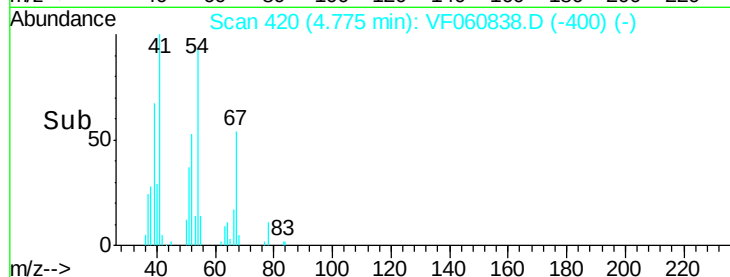
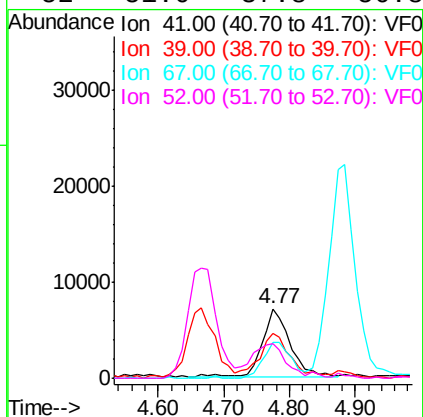
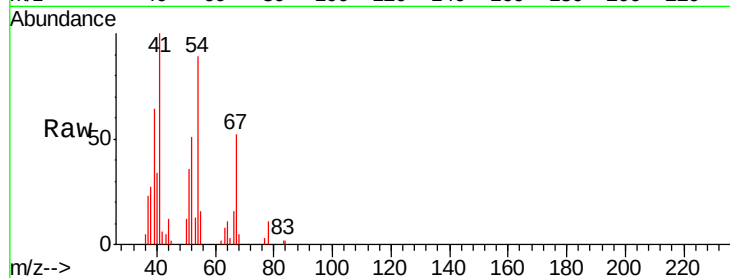
#41
Methacrylonitrile
Concen: 22.73 ug/l
RT: 4.77 min Scan# 420
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	64.1	53.0	79.6	
67	52.2	43.8	65.6	
52	51.0	37.8	56.8	

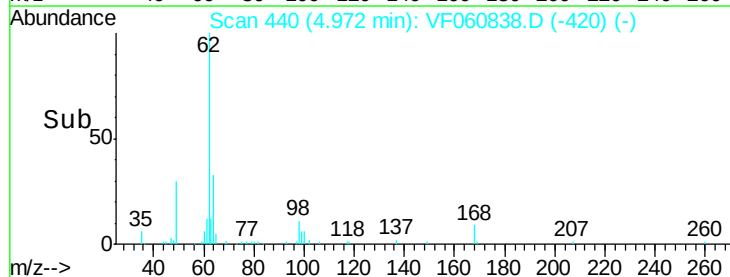
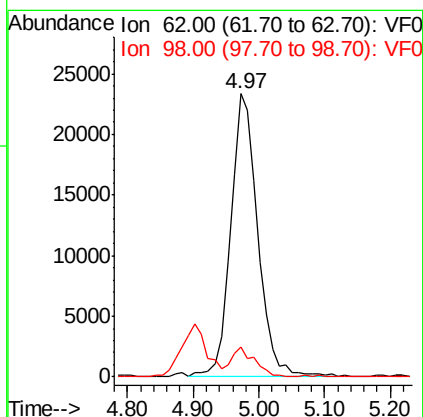
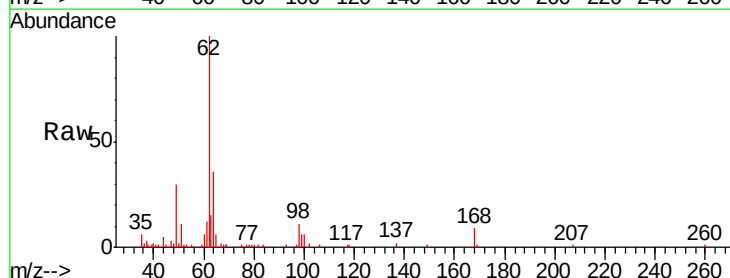
Manual Integrations
APPROVED

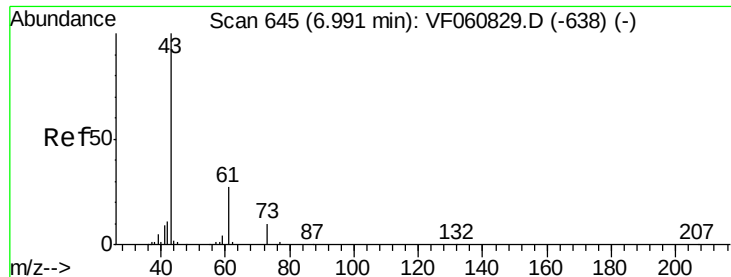
apatel
11/28/2018 2:12:27 PM



#42
1,2-Dichloroethane
Concen: 20.49 ug/l
RT: 4.97 min Scan# 440
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.8	0.0	17.2	





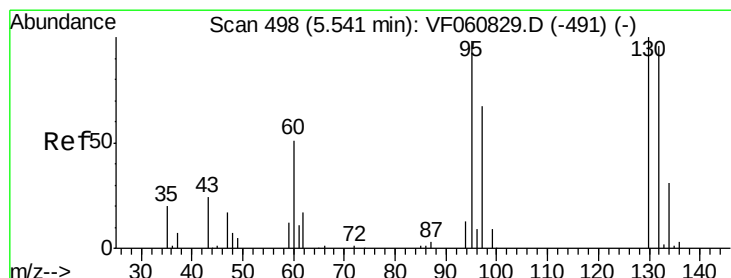
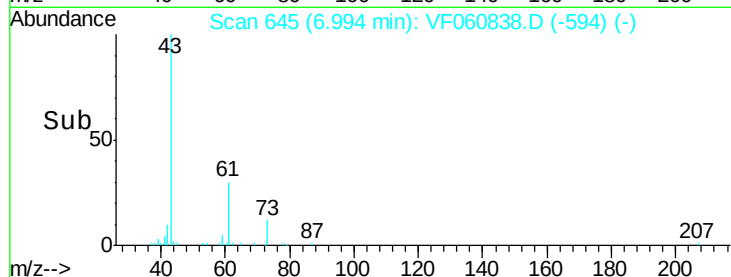
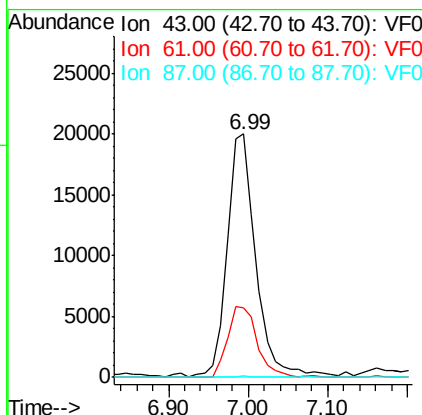
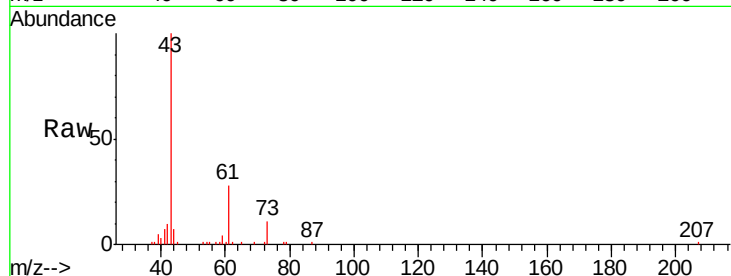
#43
Isopropyl Acetate
Concen: 23.29 ug/l
RT: 6.99 min Scan# 645
Delta R.T. 0.00 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	28.5	21.4	32.0
87	0.9	0.2	0.4

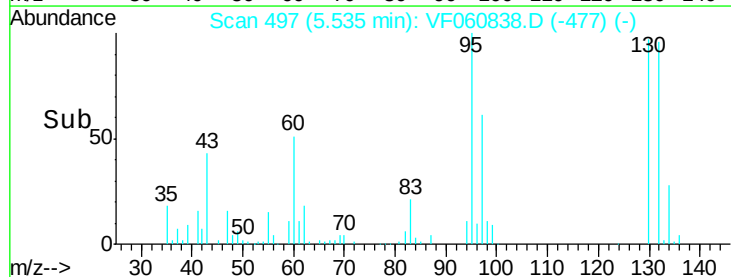
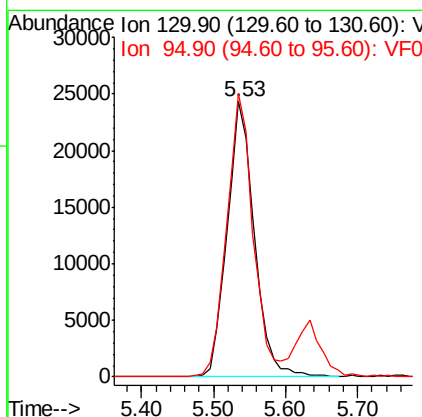
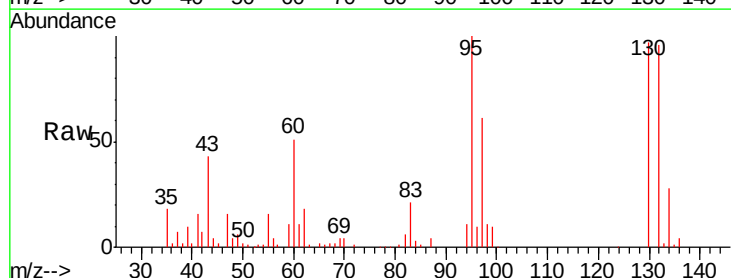
Manual Integrations
APPROVED

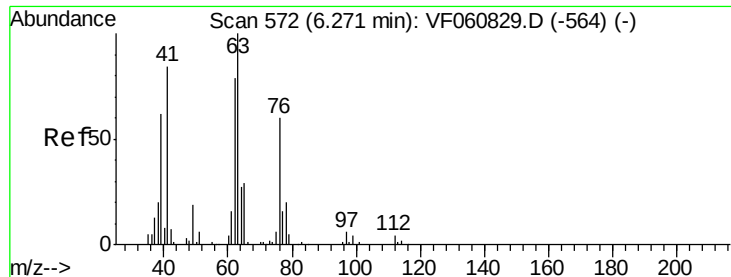
apatel
11/28/2018 2:12:27 PM



#44
Trichloroethene
Concen: 21.62 ug/l
RT: 5.53 min Scan# 497
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	195.6





#45

1,2-Dichloropropane

Concen: 23.42 ug/l

RT: 6.26 min Scan# 571

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 63 Resp: 54862

Ion Ratio Lower Upper

63 100

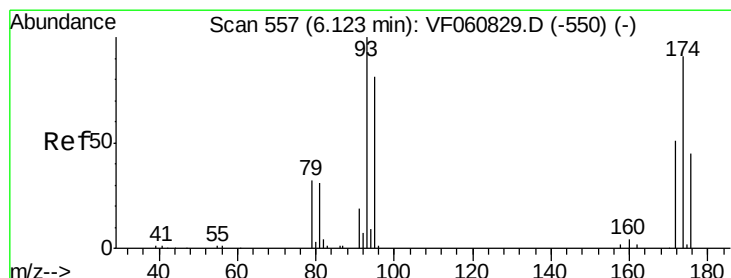
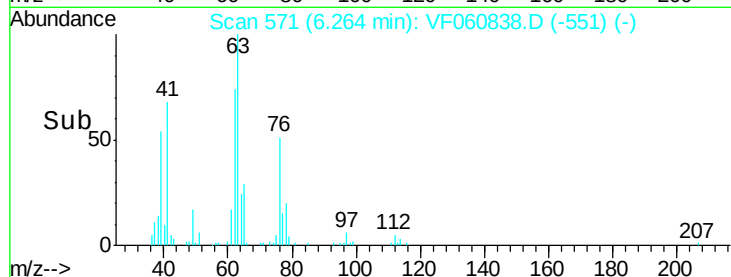
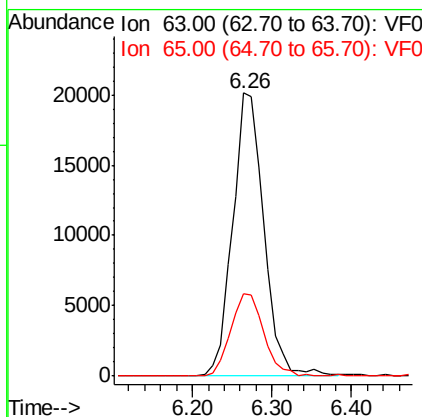
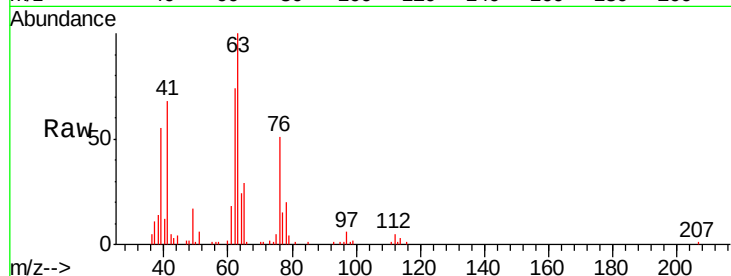
65 29.2 23.2 34.8

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#46

Dibromomethane

Concen: 21.35 ug/l

RT: 6.12 min Scan# 556

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

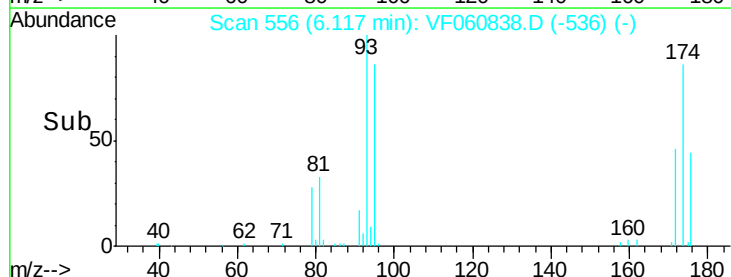
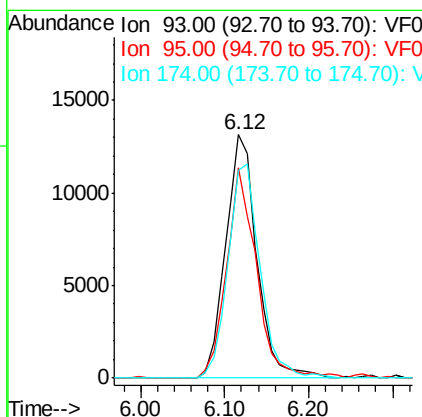
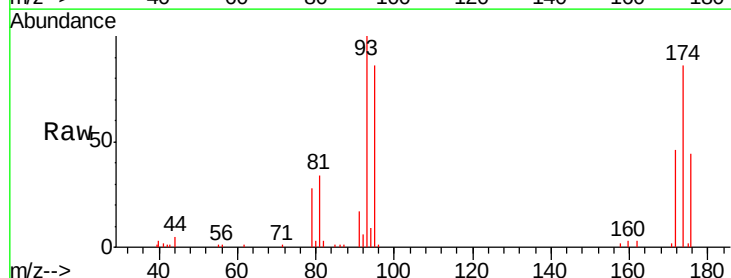
Tgt Ion: 93 Resp: 33924

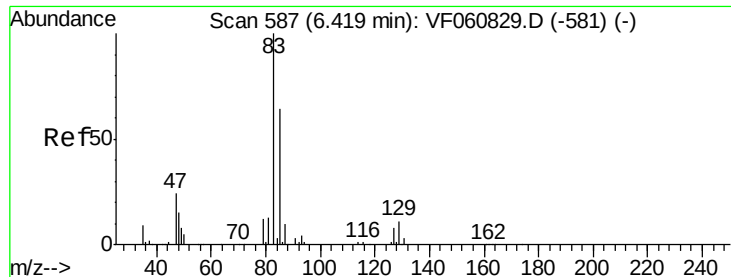
Ion Ratio Lower Upper

93 100

95 86.4 64.7 97.1

174 85.6 73.0 109.6





#47

Bromodichloromethane

Concen: 20.75 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

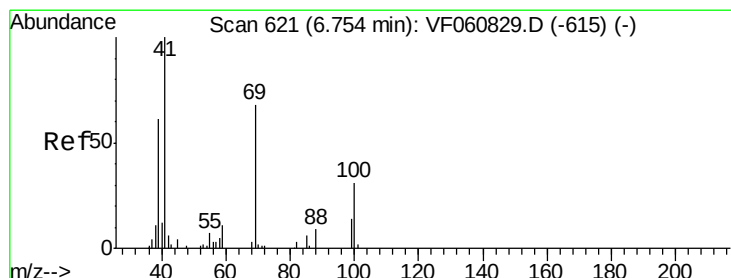
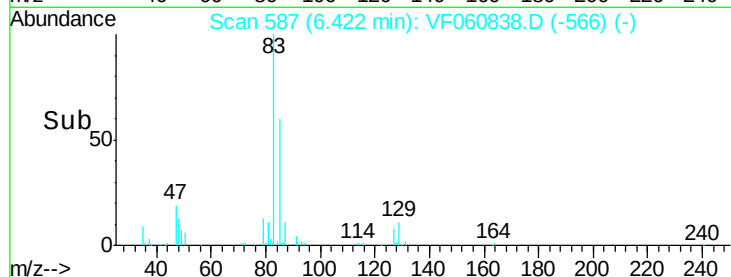
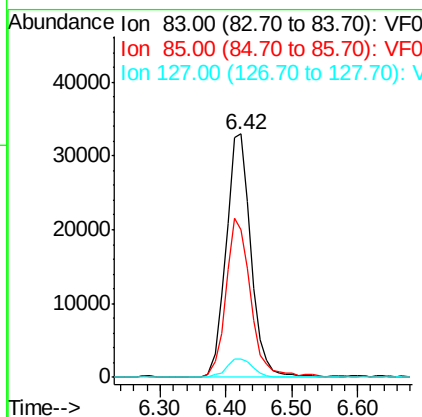
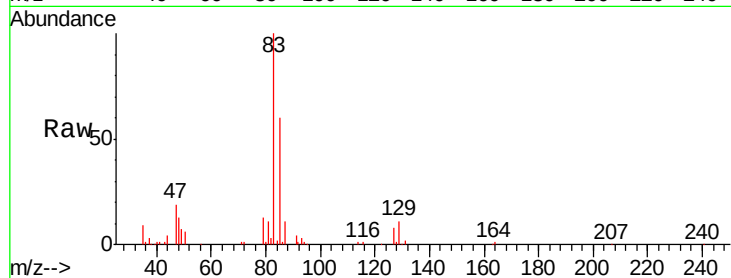
ClientSampleId :

VF1127SBS01

Tgt Ion:	83	Resp:	87561
Ion	Ratio	Lower	Upper
83	100		
85	60.4	51.1	76.7
127	7.8	6.8	10.2

Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM



#48

Methyl methacrylate

Concen: 21.88 ug/l

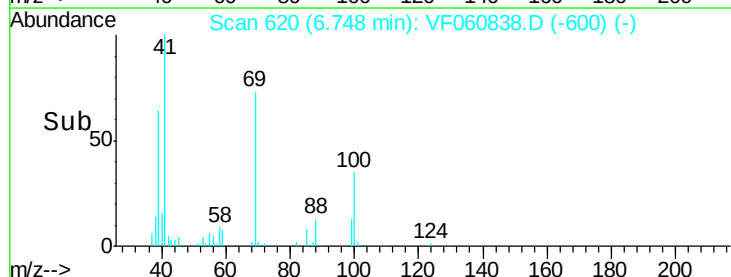
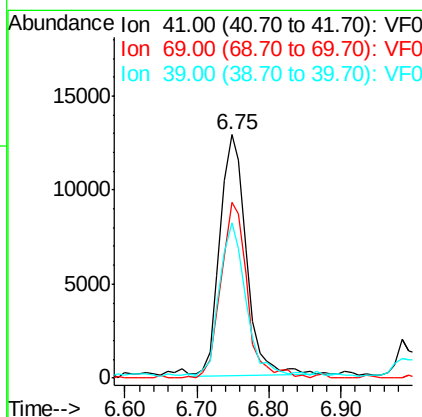
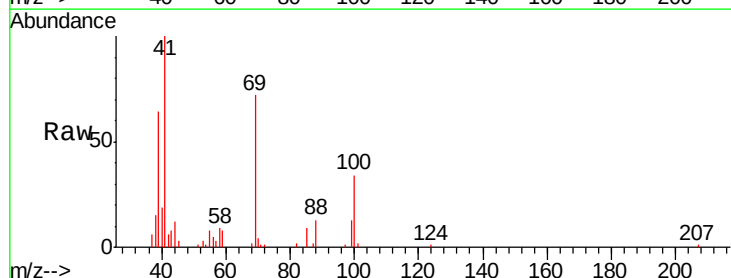
RT: 6.75 min Scan# 620

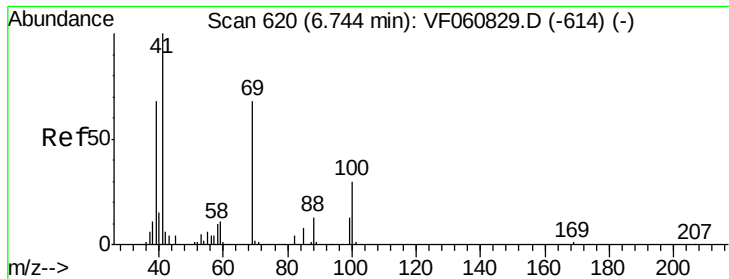
Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion:	41	Resp:	32851
Ion	Ratio	Lower	Upper
41	100		
69	72.0	53.9	80.9
39	63.6	49.0	73.6





#49

1,4-Dioxane

Concen: 421.73 ug/l

RT: 6.75 min Scan# 620

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

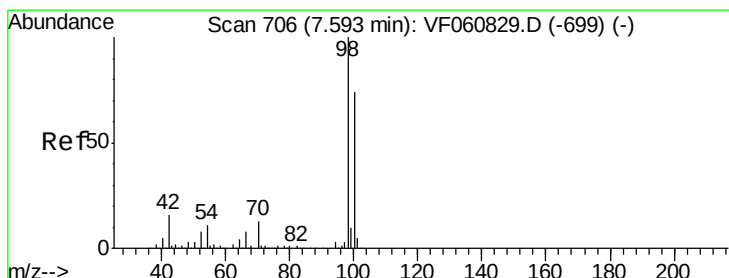
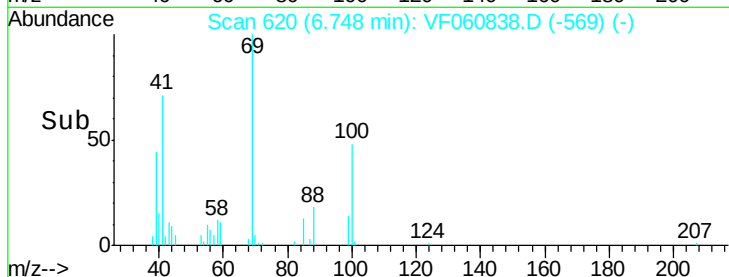
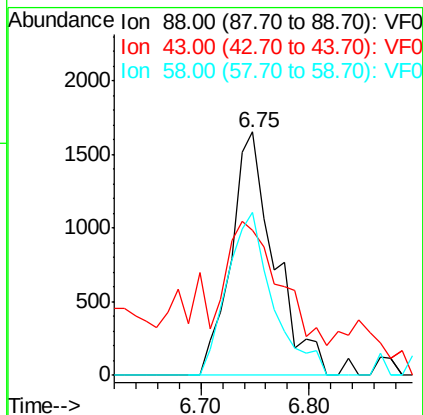
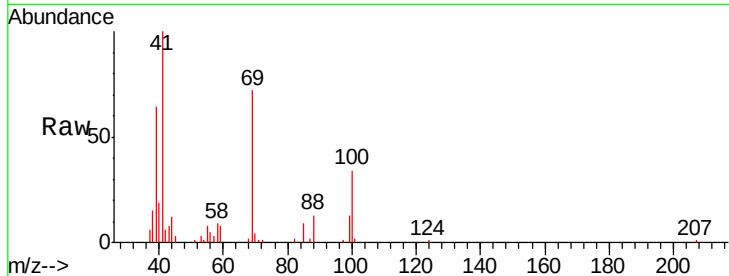
ClientSampleId :

VF1127SBS01

Tgt Ion:	88	Resp:	4635
Ion	Ratio	Lower	Upper
88	100		
43	59.6	42.0	63.0
58	67.0	61.8	92.8

Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM



#50

Toluene-d8

Concen: 51.84 ug/l

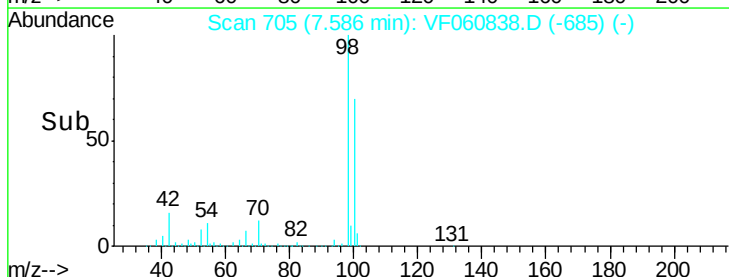
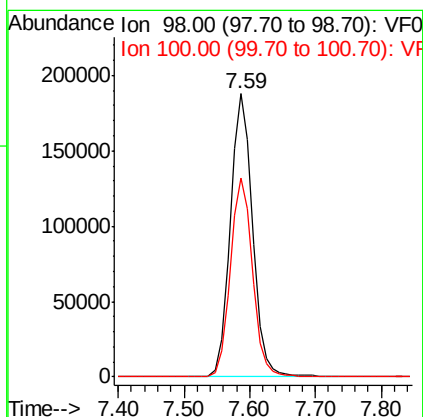
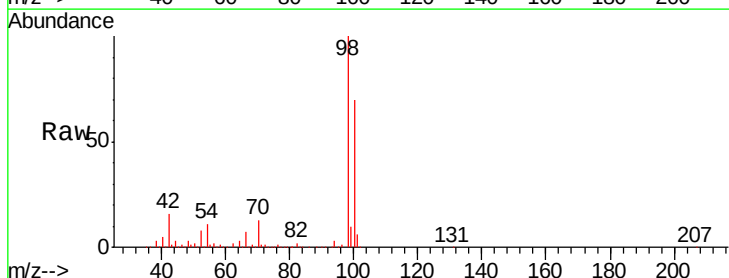
RT: 7.59 min Scan# 705

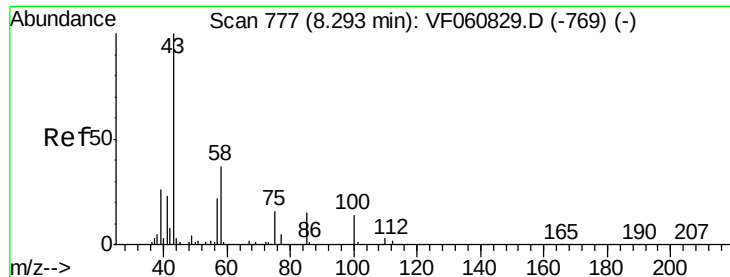
Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion:	98	Resp:	445892
Ion	Ratio	Lower	Upper
98	100		
100	70.1	59.3	88.9





#51

4-Methyl-2-Pentanone

Concen: 118.73 ug/l

RT: 8.29 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 43 Resp: 181641

Ion Ratio Lower Upper

43 100

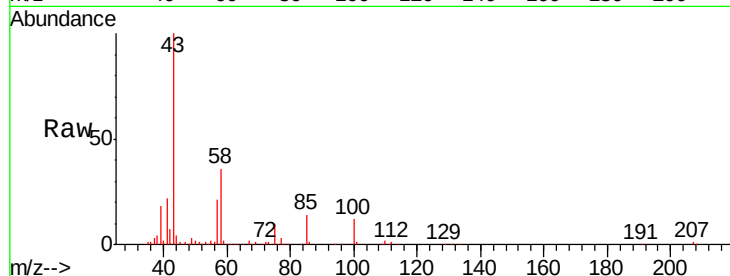
58 36.1 29.7 44.5

Manual Integrations

APPROVED

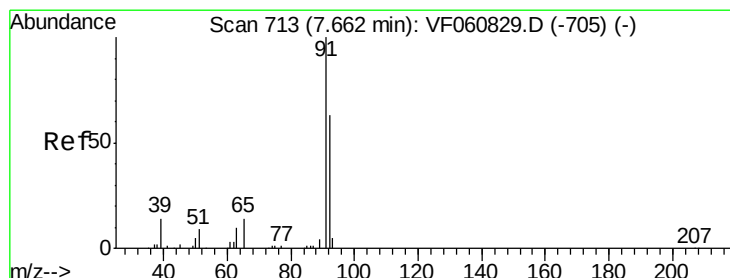
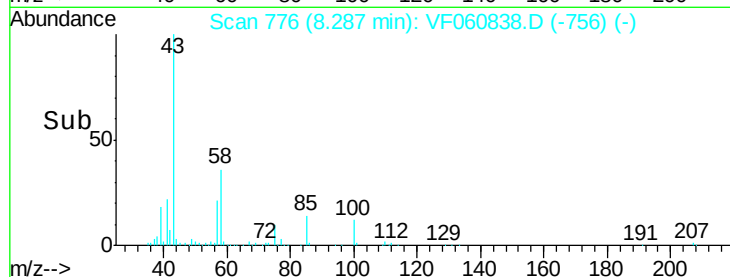
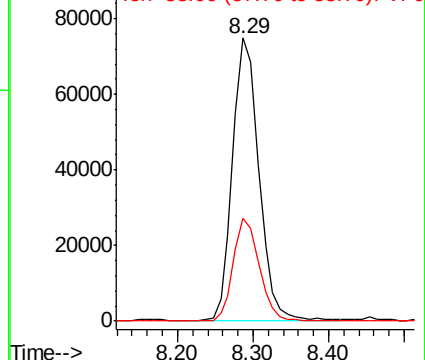
apatel

11/28/2018 2:12:27 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.07 ug/l

RT: 7.66 min Scan# 712

Delta R.T. -0.01 min

Lab File: VF060838.D

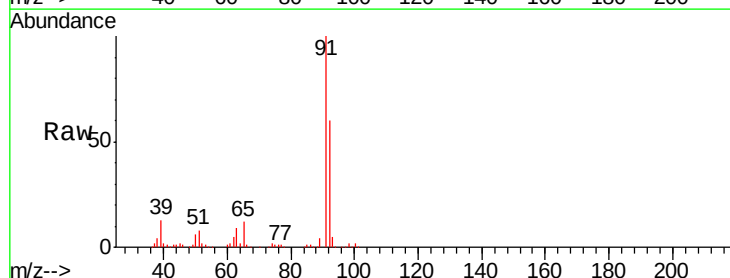
Acq: 27 Nov 2018 15:01

Tgt Ion: 92 Resp: 133507

Ion Ratio Lower Upper

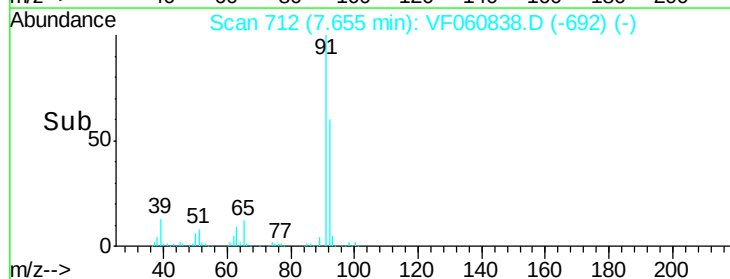
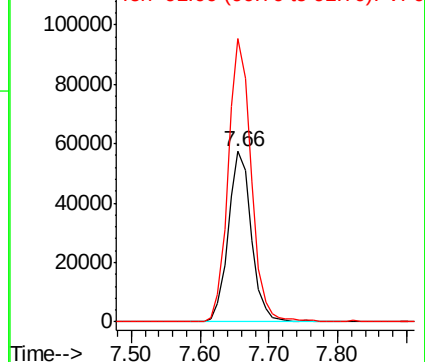
92 100

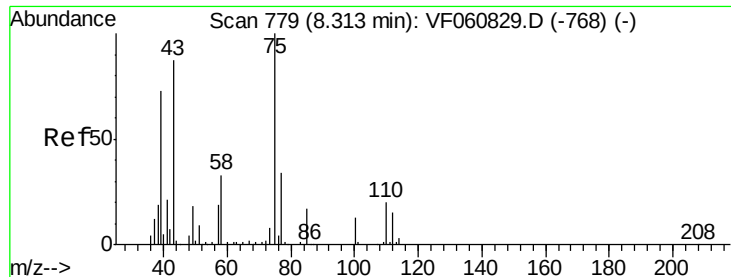
91 165.9 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 22.06 ug/l

RT: 8.32 min Scan# 779

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 75 Resp: 75732

Ion Ratio Lower Upper

75 100

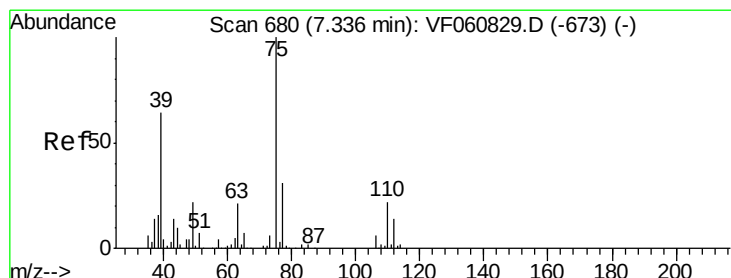
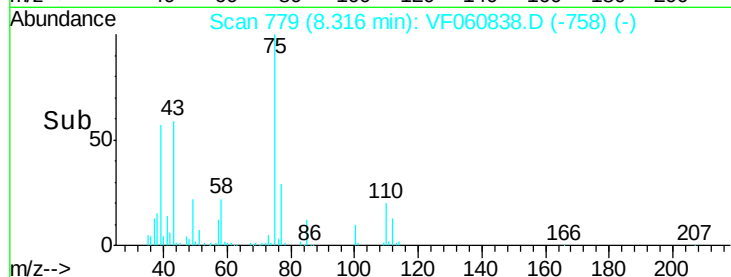
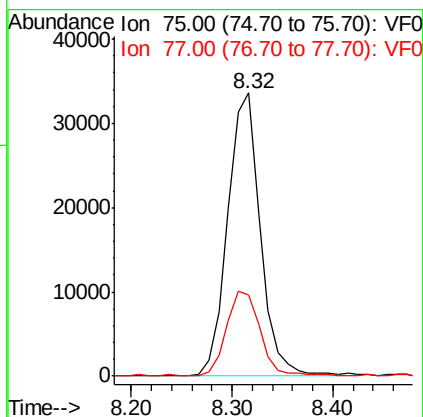
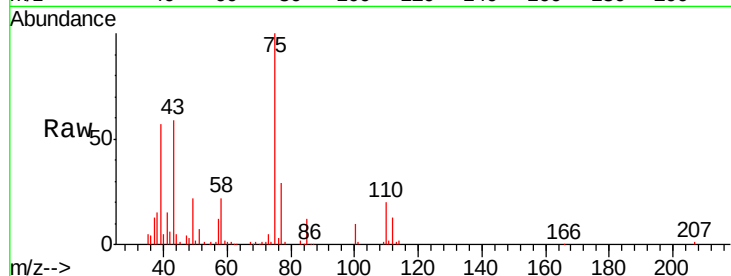
77 28.8 27.4 41.2

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#54

cis-1,3-Dichloropropene

Concen: 21.97 ug/l

RT: 7.33 min Scan# 679

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

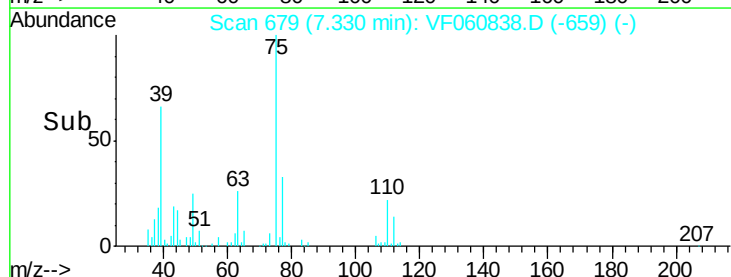
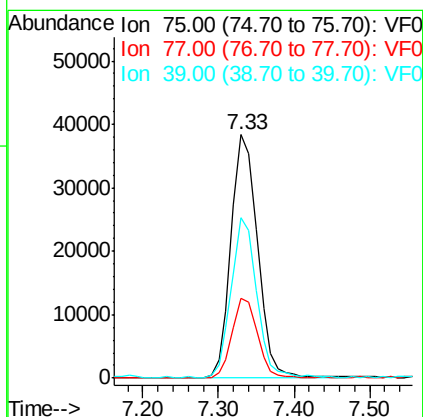
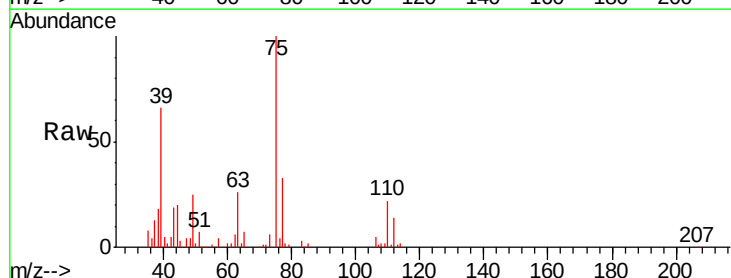
Tgt Ion: 75 Resp: 93390

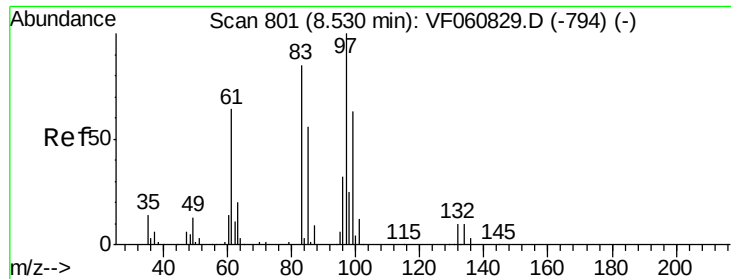
Ion Ratio Lower Upper

75 100

77 32.5 25.0 37.6

39 66.1 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 21.99 ug/l

RT: 8.52 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

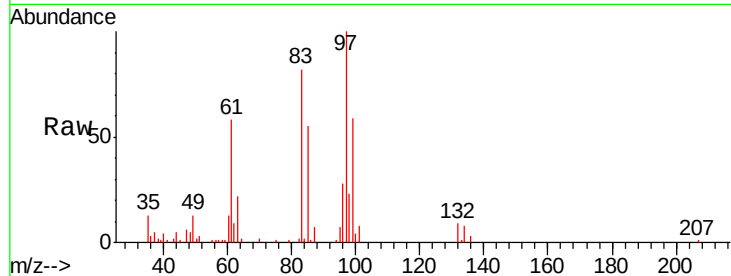
ClientSampleId :

VF1127SBS01

Tgt Ion:	97	Resp:	40602
Ion	Ratio	Lower	Upper
97	100		
83	81.7	67.8	101.6
85	55.3	45.0	67.6
99	59.1	50.5	75.7

Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM

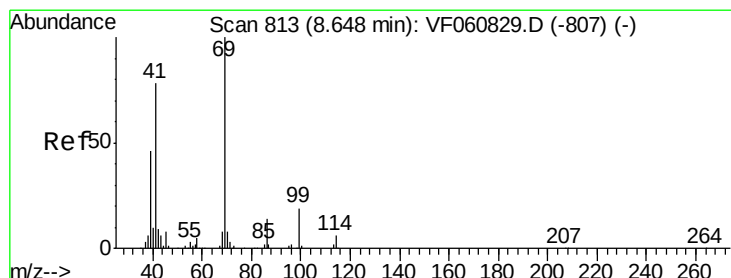
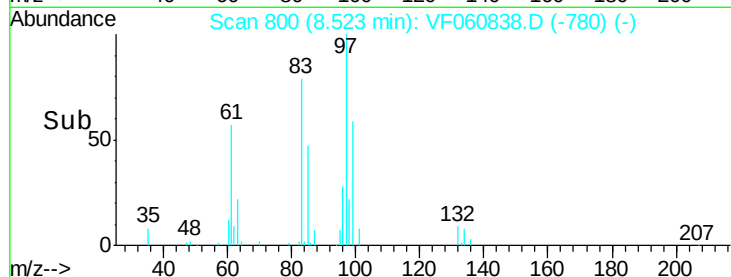
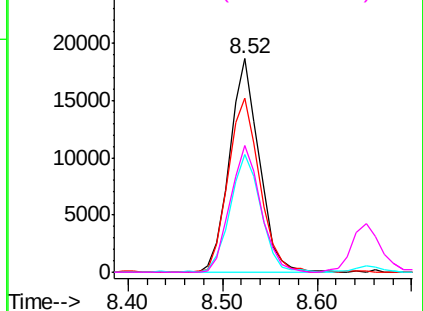


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 22.78 ug/l

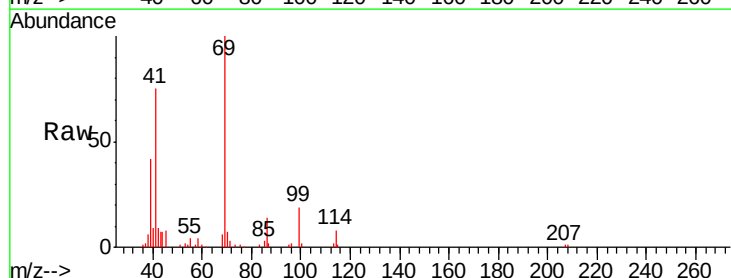
RT: 8.65 min Scan# 813

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

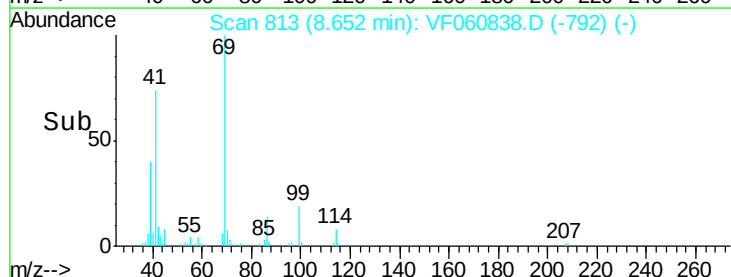
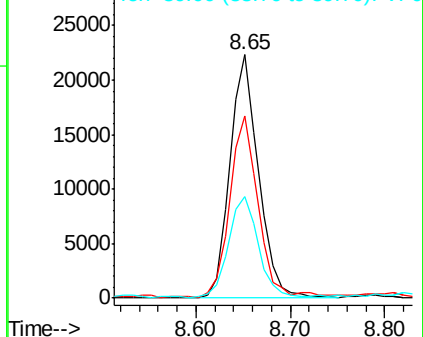
Tgt Ion:	69	Resp:	46714
Ion	Ratio	Lower	Upper
69	100		
41	74.6	62.6	94.0
39	41.8	37.8	56.6

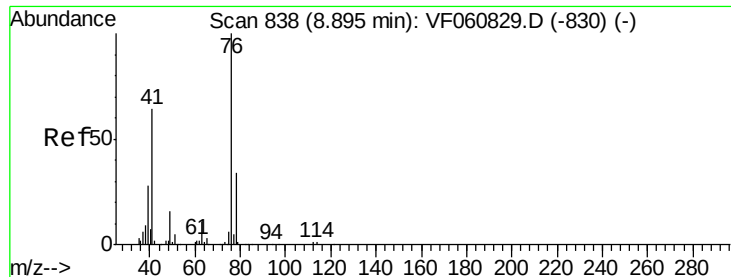


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.15 ug/l

RT: 8.88 min Scan# 836

Delta R.T. -0.02 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 76 Resp: 71546

Ion Ratio Lower Upper

76 100

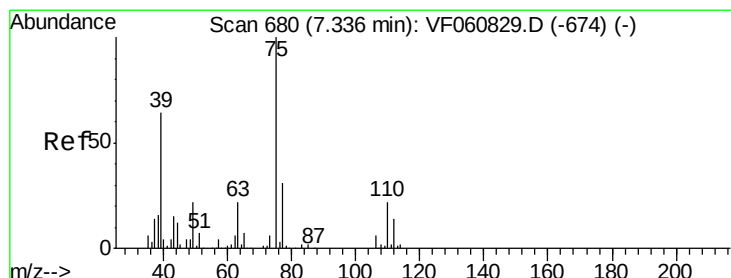
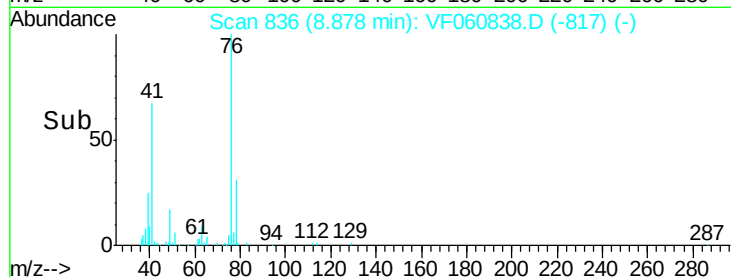
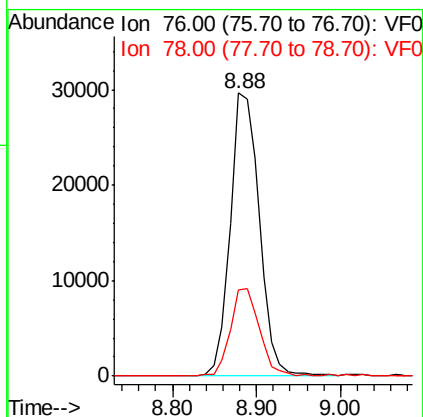
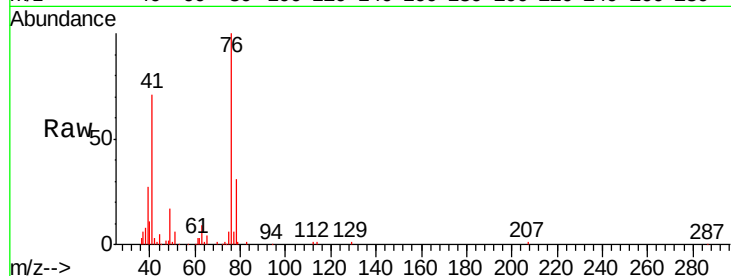
78 30.5 27.0 40.4

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#58

2-Chloroethyl Vinyl ether

Concen: 102.83 ug/l

RT: 7.33 min Scan# 679

Delta R.T. -0.01 min

Lab File: VF060838.D

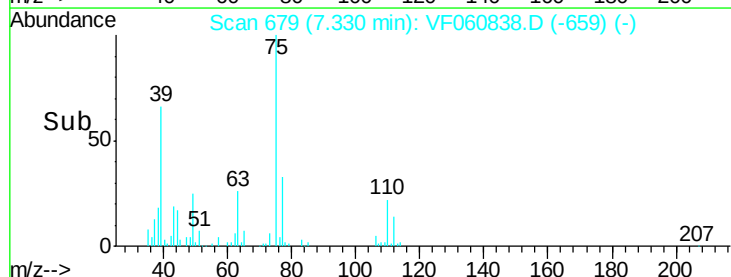
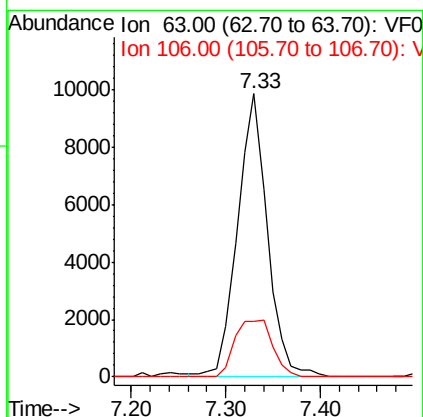
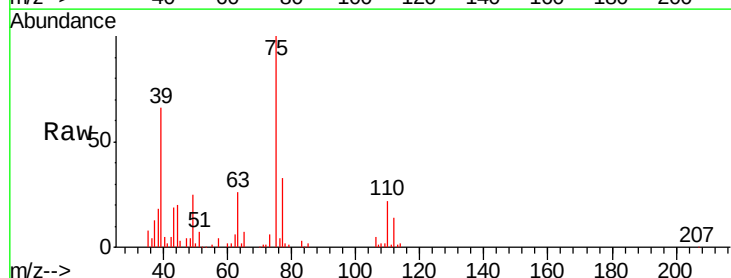
Acq: 27 Nov 2018 15:01

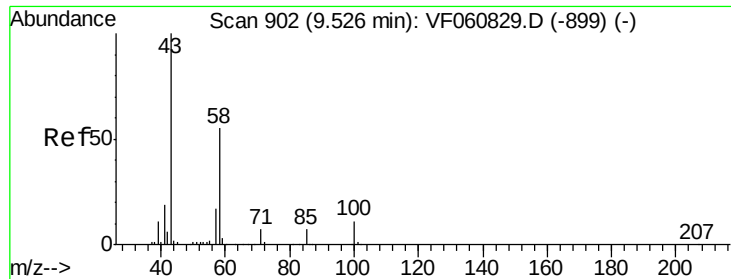
Tgt Ion: 63 Resp: 21568

Ion Ratio Lower Upper

63 100

106 19.7 23.0 34.6#





#59

2-Hexanone

Concen: 124.46 ug/l

RT: 9.52 min Scan# 901

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 43 Resp: 133584

Ion Ratio Lower Upper

43 100

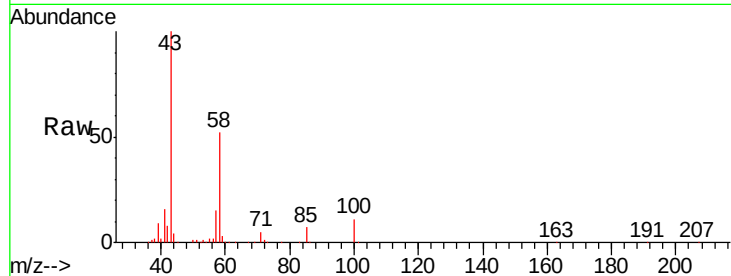
58 51.6 25.6 76.6

Manual Integrations

APPROVED

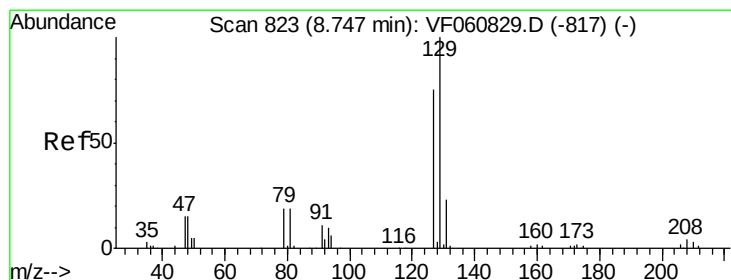
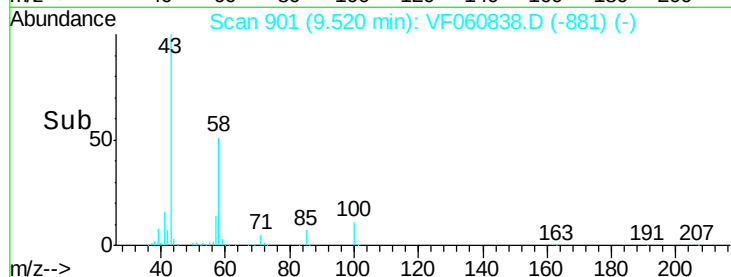
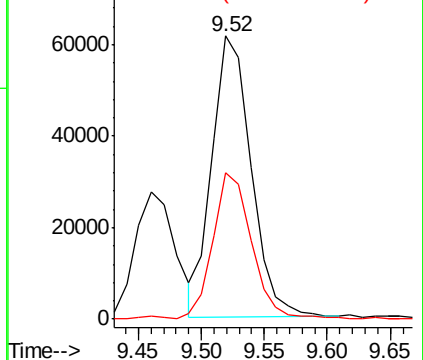
apatel

11/28/2018 2:12:27 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#60

Dibromochloromethane

Concen: 20.24 ug/l

RT: 8.75 min Scan# 823

Delta R.T. 0.00 min

Lab File: VF060838.D

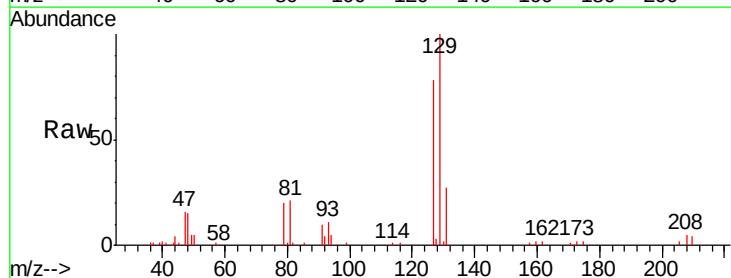
Acq: 27 Nov 2018 15:01

Tgt Ion: 129 Resp: 55667

Ion Ratio Lower Upper

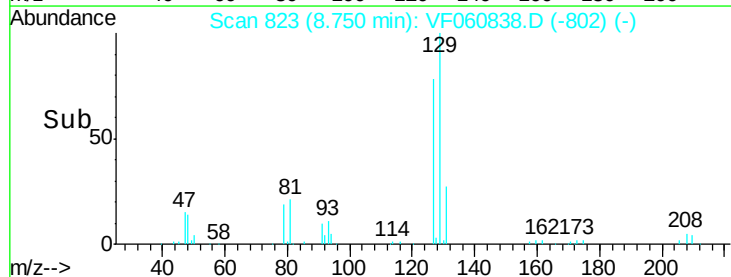
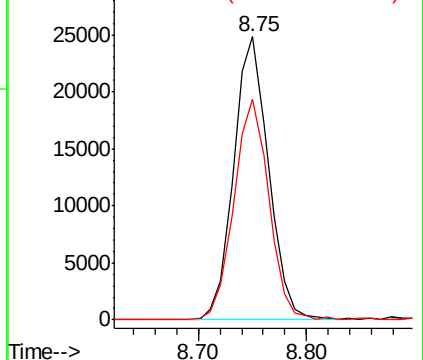
129 100

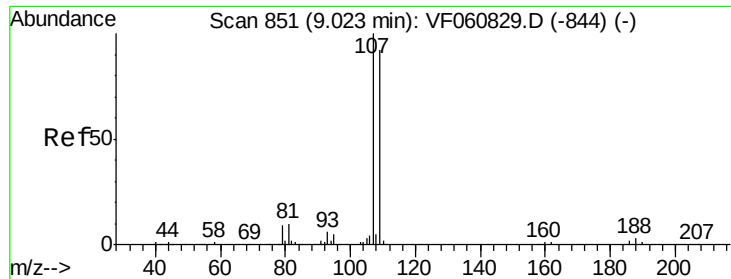
127 78.0 37.3 111.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





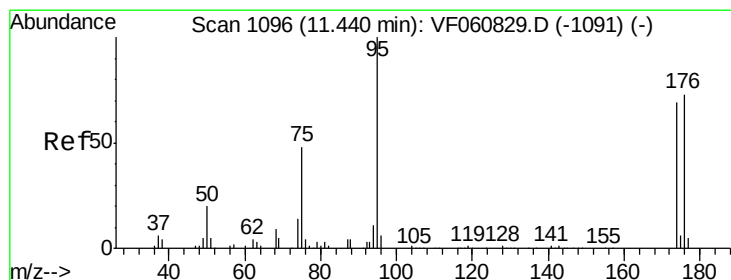
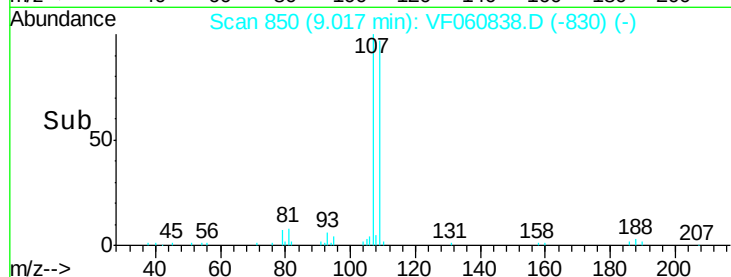
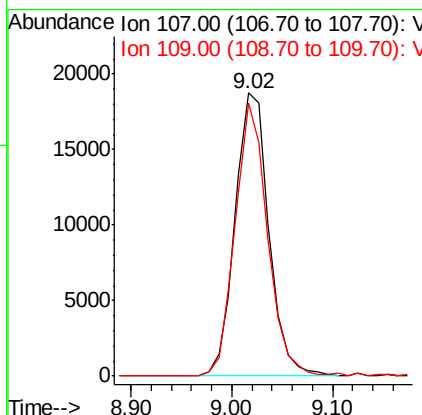
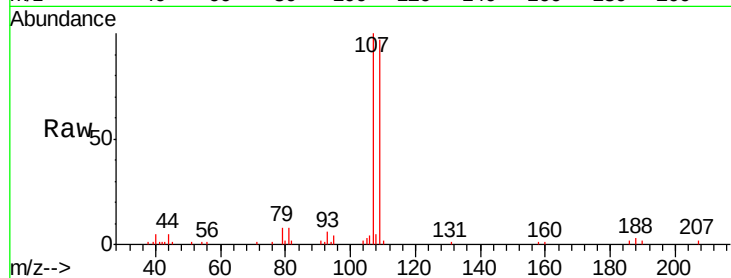
#61
 1,2-Dibromoethane
 Concen: 21.99 ug/l
 RT: 9.02 min Scan# 850
 Delta R.T. -0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1127SBS01

Tgt Ion: 107 Resp: 43860
 Ion Ratio Lower Upper
 107 100
 109 96.5 73.6 110.4

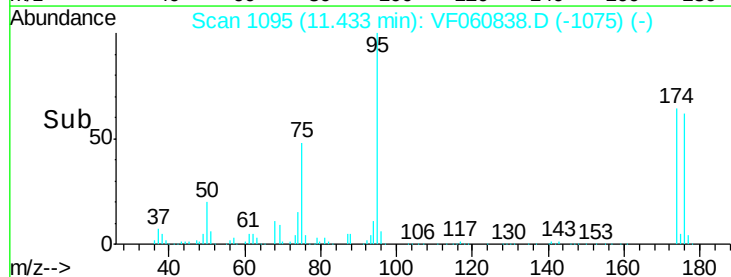
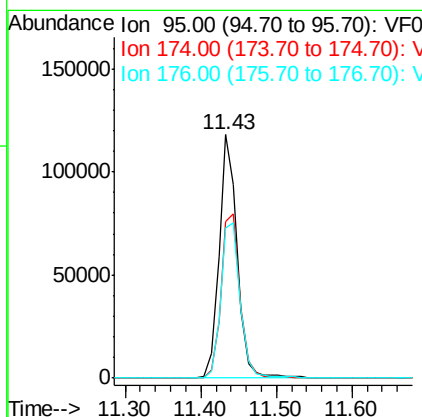
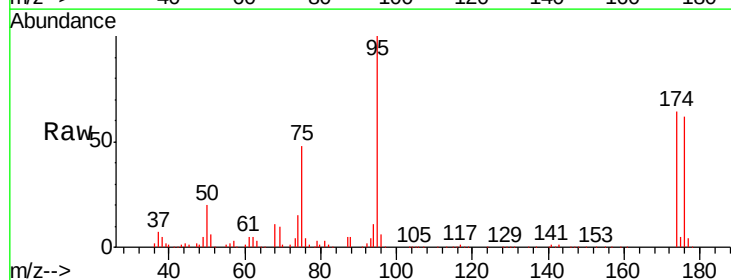
Manual Integrations
 APPROVED

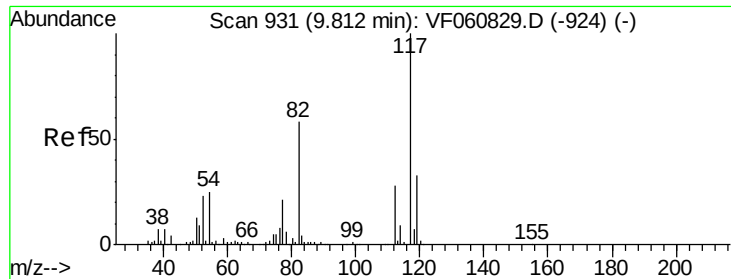
apatel
 11/28/2018 2:12:27 PM



#62
 4-Bromofluorobenzene
 Concen: 50.57 ug/l
 RT: 11.43 min Scan# 1095
 Delta R.T. -0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Tgt Ion: 95 Resp: 197670
 Ion Ratio Lower Upper
 95 100
 174 64.2 0.0 138.2
 176 61.5 0.0 146.2





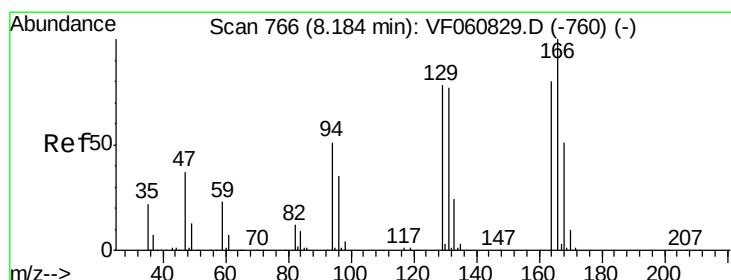
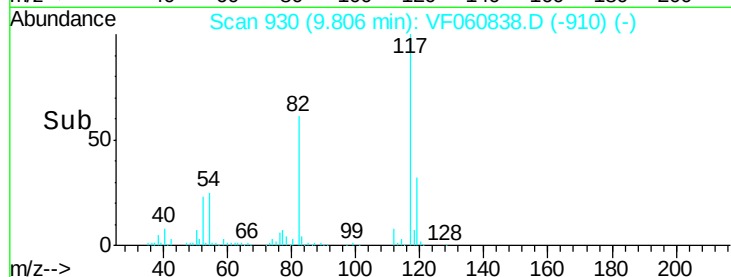
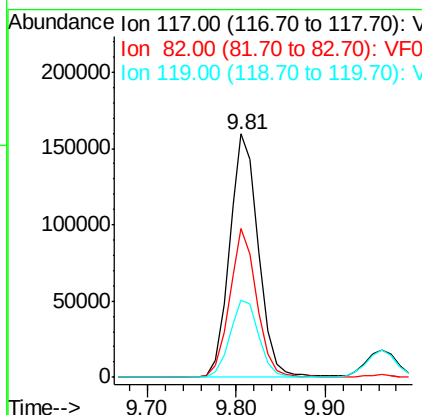
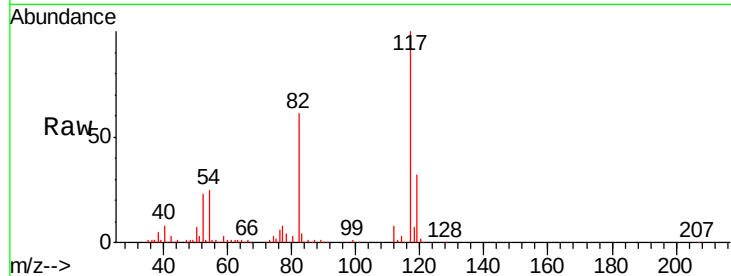
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.81 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	359023		
82	61.1	46.6	69.8	
119	31.6	26.4	39.6	

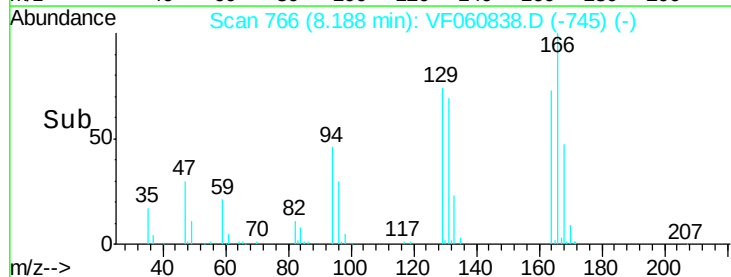
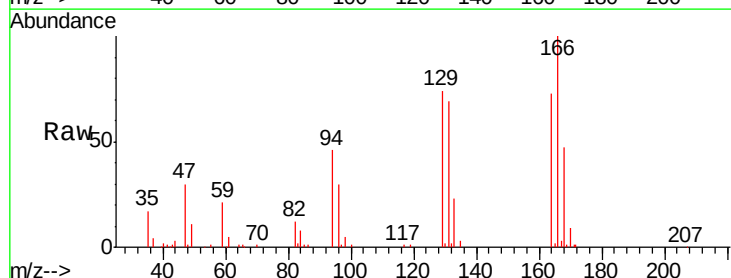
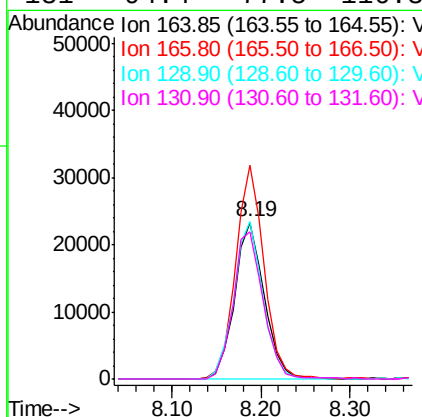
Manual Integrations
APPROVED

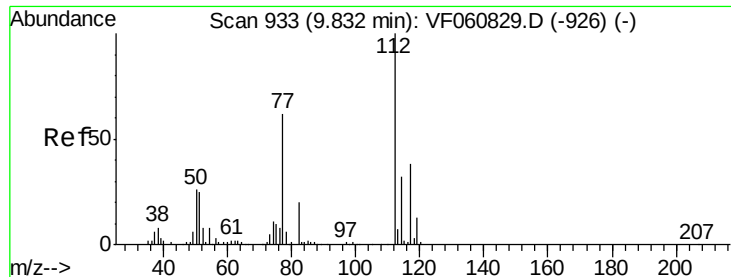
apatel
11/28/2018 2:12:27 PM



#64
Tetrachloroethene
Concen: 19.67 ug/l
RT: 8.19 min Scan# 766
Delta R.T. 0.00 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	53949		
166	136.6	100.3	150.5	
129	101.0	77.9	116.9	
131	94.4	77.5	116.3	





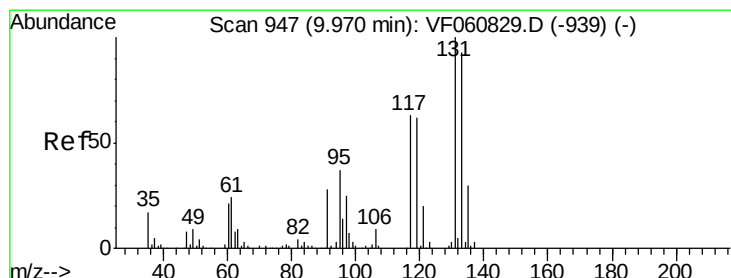
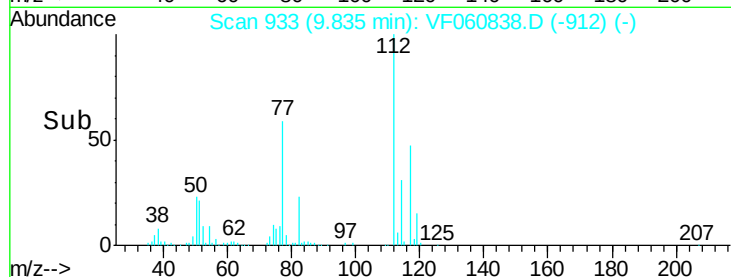
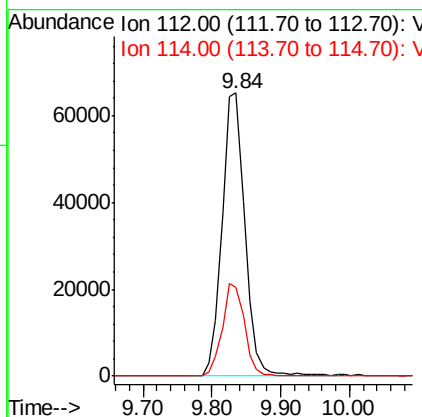
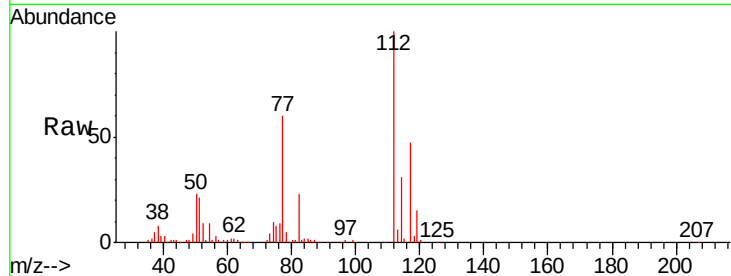
#65
Chlorobenzene
Concen: 21.49 ug/l
RT: 9.84 min Scan# 933
Delta R.T. 0.00 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	150115		
114	31.4	26.0	39.0	

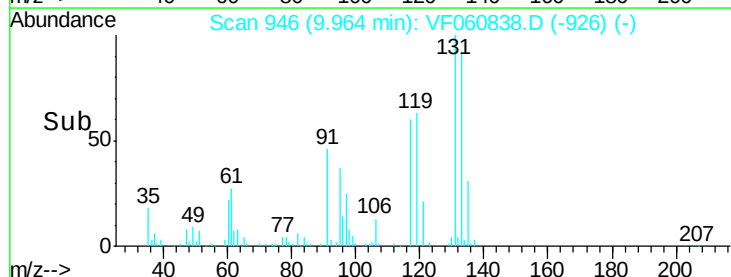
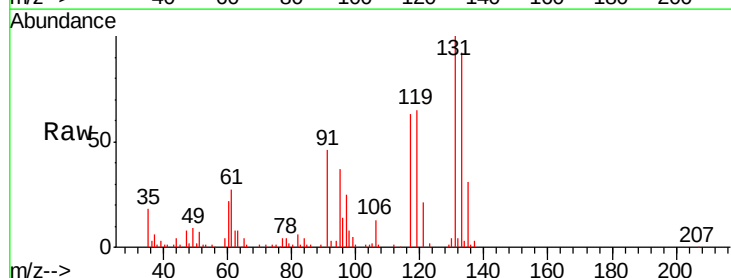
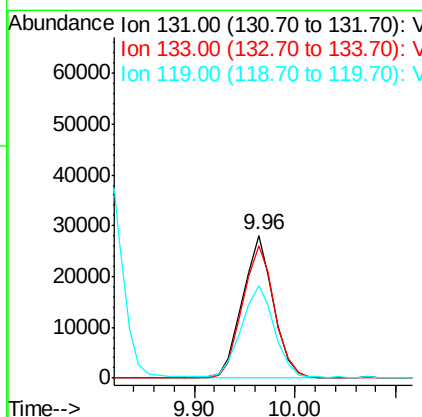
Manual Integrations
APPROVED

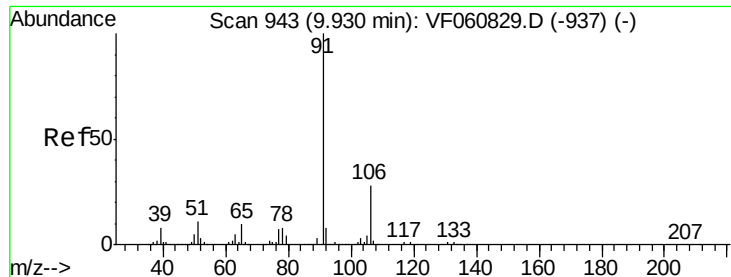
apatel
11/28/2018 2:12:27 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.09 ug/l
RT: 9.96 min Scan# 946
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	60327		
133	92.4	46.5	139.3	
119	64.5	31.1	93.3	





#67

Ethyl Benzene

Concen: 20.83 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 91 Resp: 270873

Ion Ratio Lower Upper

91 100

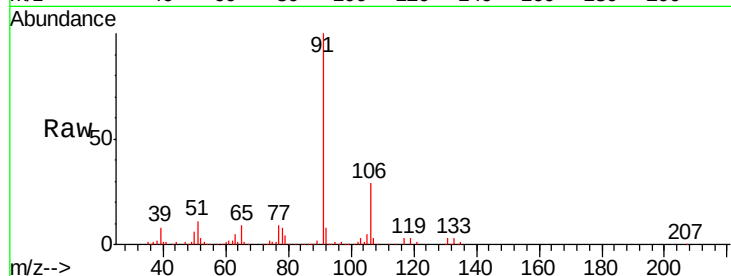
106 29.5 22.2 33.2

Manual Integrations

APPROVED

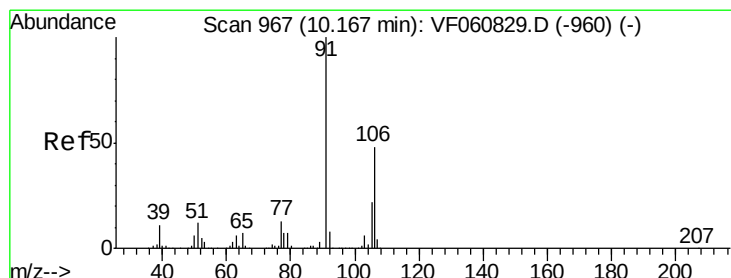
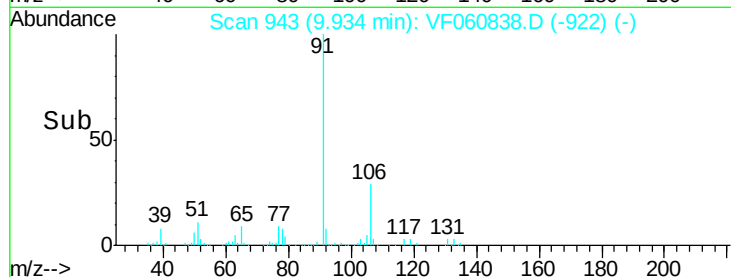
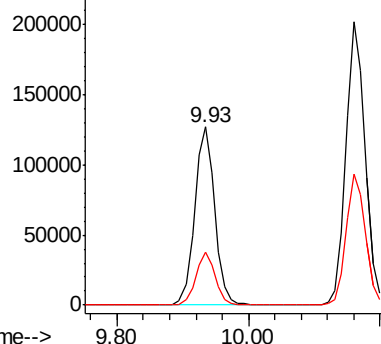
apatel

11/28/2018 2:12:27 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 41.56 ug/l

RT: 10.16 min Scan# 966

Delta R.T. -0.01 min

Lab File: VF060838.D

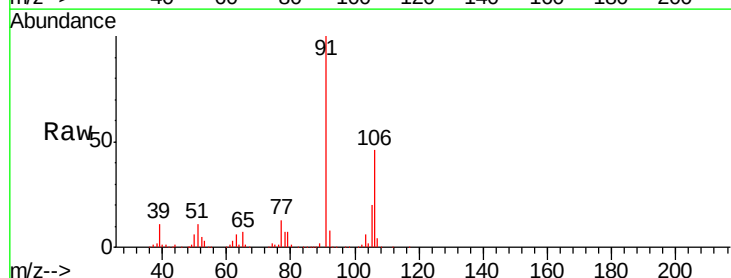
Acq: 27 Nov 2018 15:01

Tgt Ion: 106 Resp: 194359

Ion Ratio Lower Upper

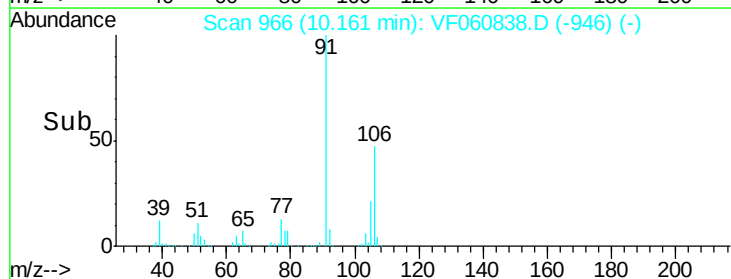
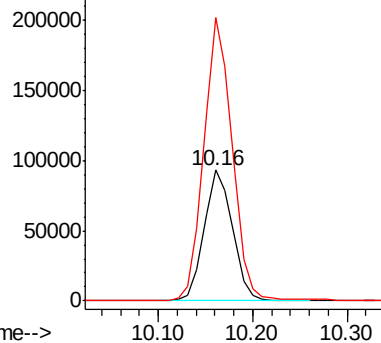
106 100

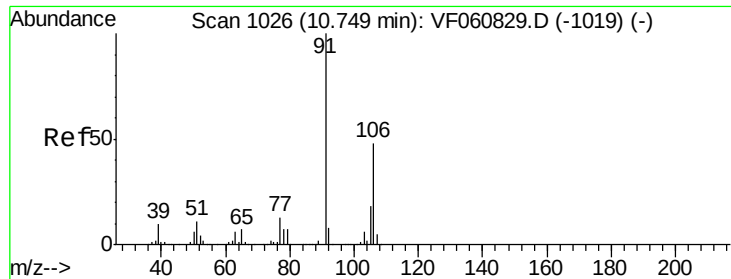
91 216.1 166.7 250.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





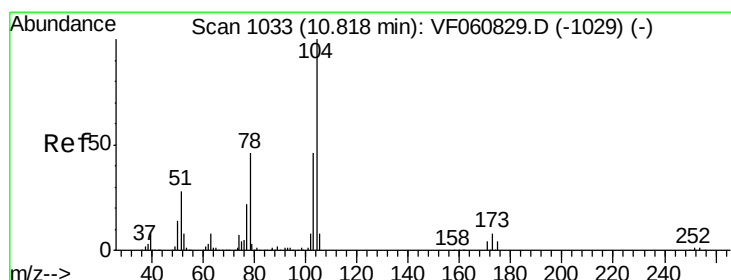
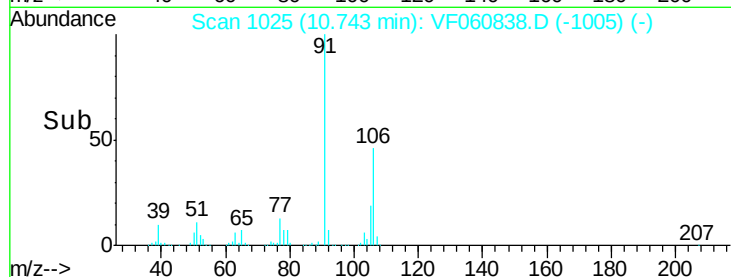
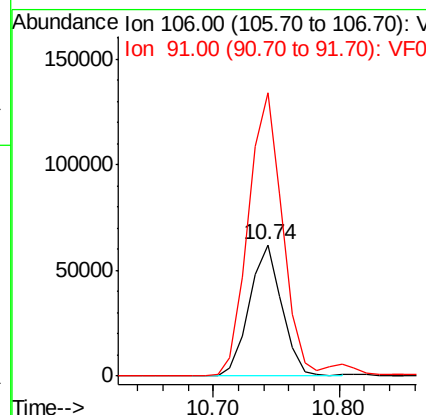
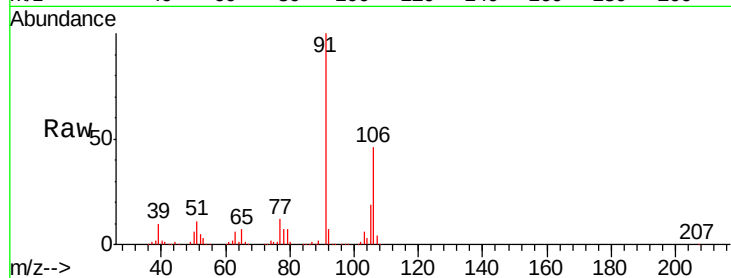
#69
o-Xylene
Concen: 21.75 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion:106 Resp: 112181
Ion Ratio Lower Upper
106 100
91 215.3 104.8 314.6

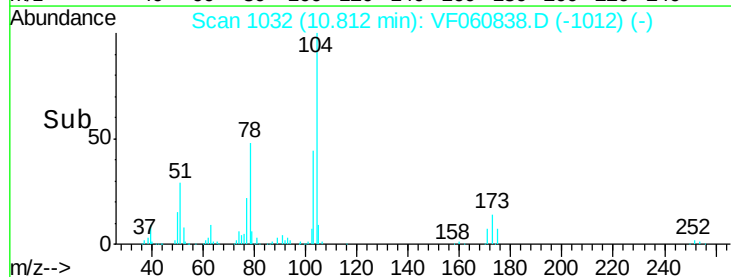
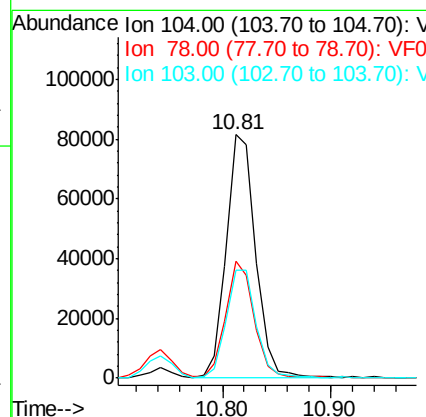
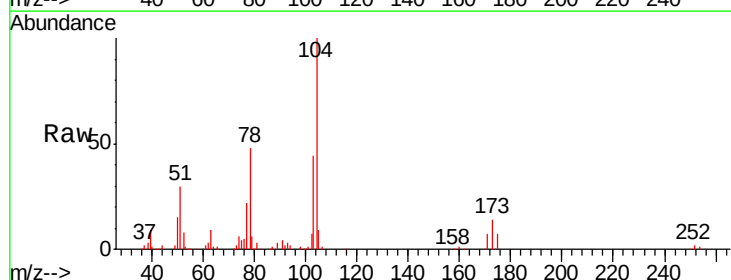
Manual Integrations
APPROVED

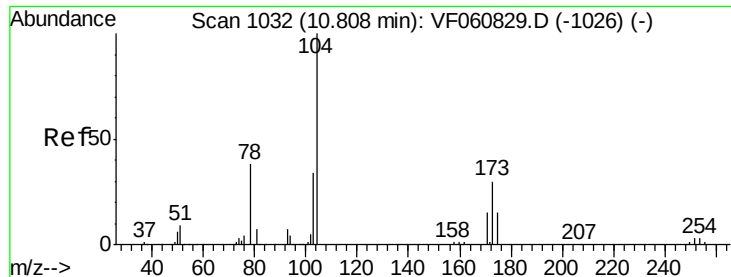
apatel
11/28/2018 2:12:27 PM



#70
Styrene
Concen: 21.45 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion:104 Resp: 153308
Ion Ratio Lower Upper
104 100
78 47.8 37.3 55.9
103 44.2 36.8 55.2





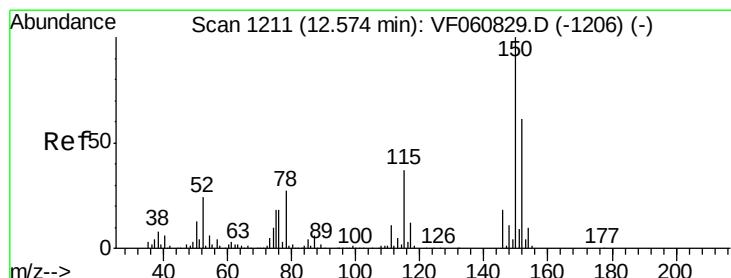
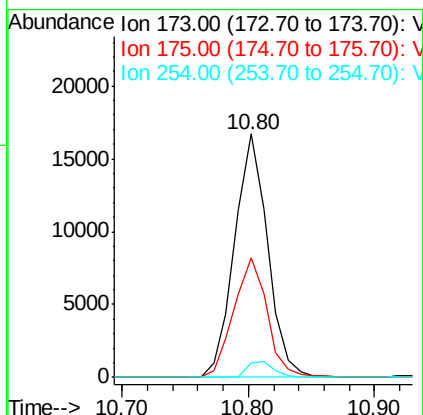
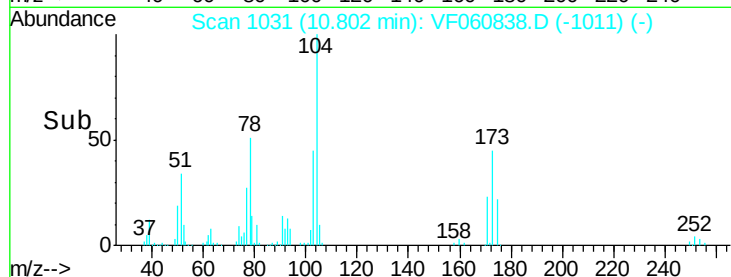
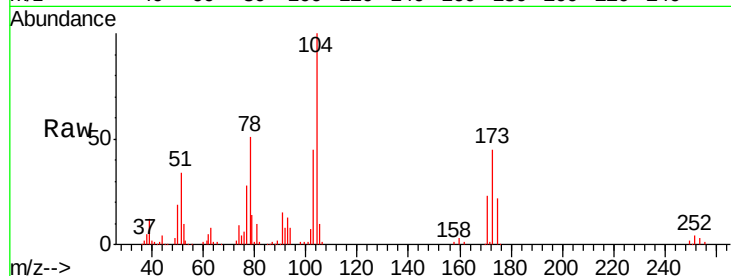
#71
Bromoform
Concen: 20.89 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.0	25.5	76.5
254	6.2	7.5	11.3

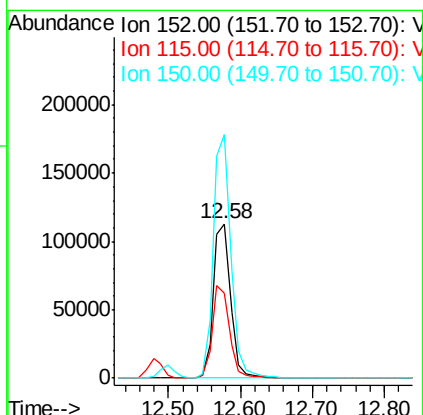
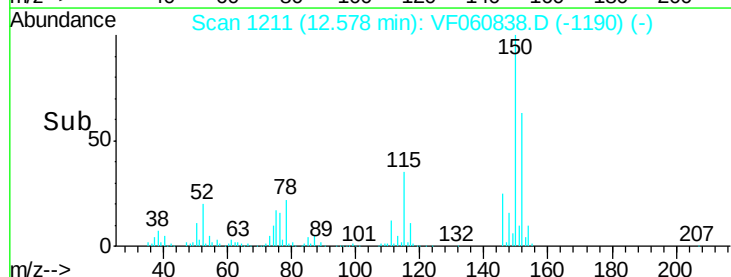
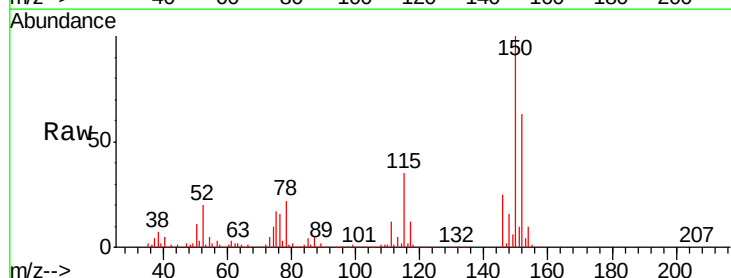
Manual Integrations
APPROVED

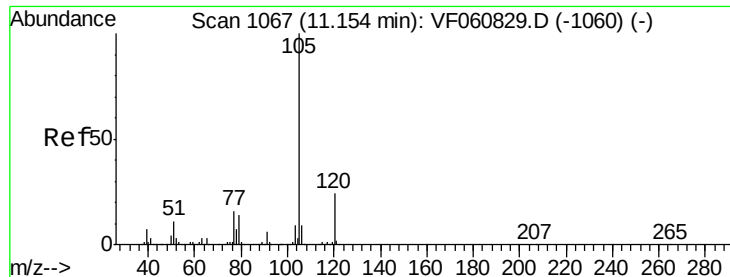
apatel
11/28/2018 2:12:27 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.58 min Scan# 1211
Delta R.T. 0.00 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	30.1	90.5
150	158.0	0.0	327.6





#73

Isopropylbenzene

Concen: 21.32 ug/l

RT: 11.15 min Scan# 1066

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 105 Resp: 311521

Ion Ratio Lower Upper

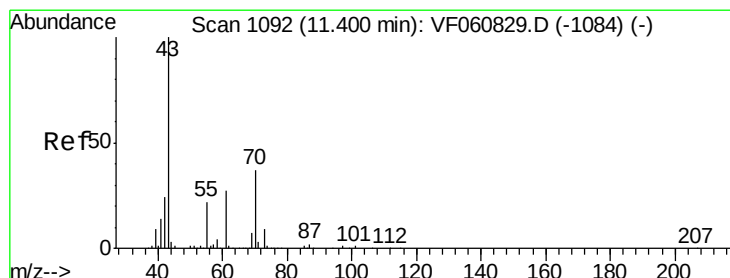
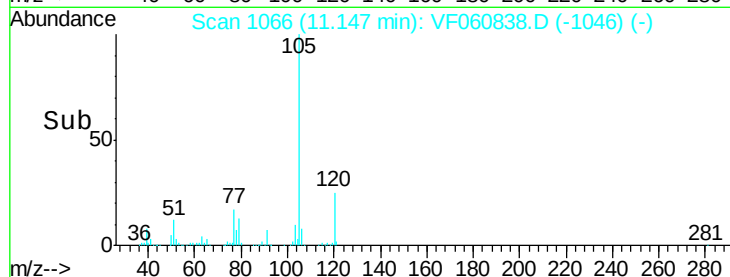
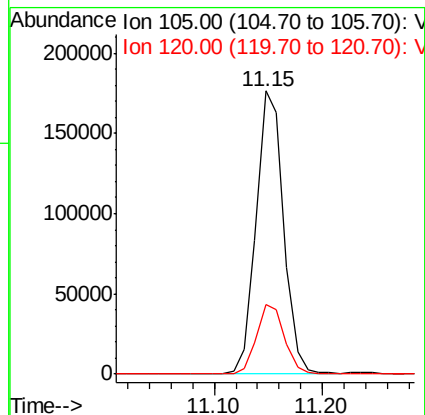
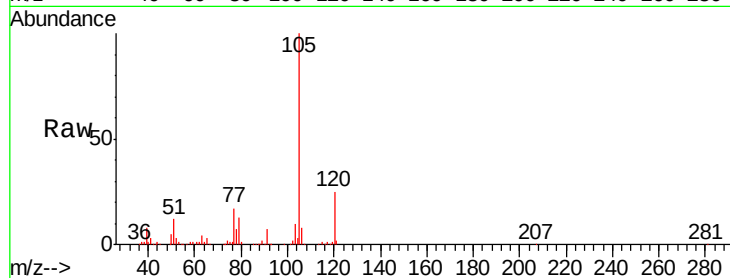
105 100

120 24.6 12.2 36.4

Manual Integrations
APPROVED

apatel

11/28/2018 2:12:27 PM



#74

N-ethyl acetate

Concen: 23.80 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion: 43 Resp: 80306

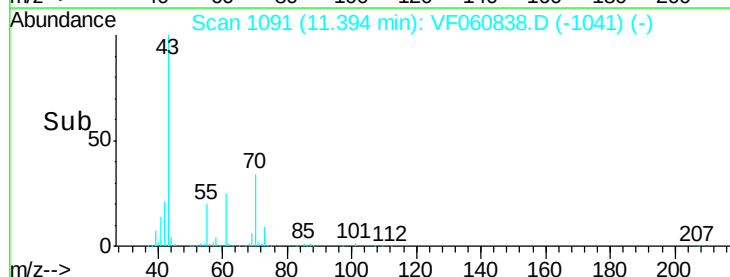
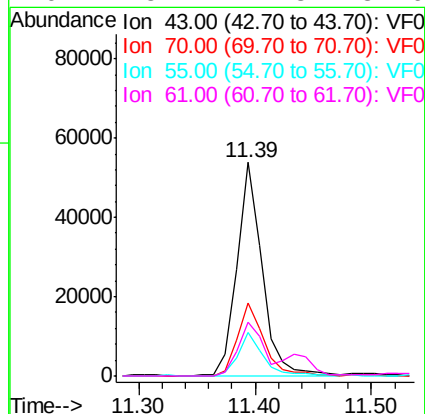
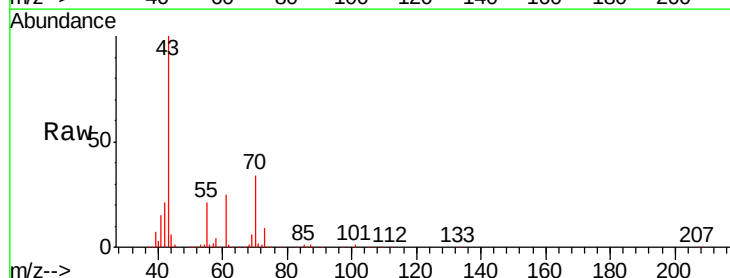
Ion Ratio Lower Upper

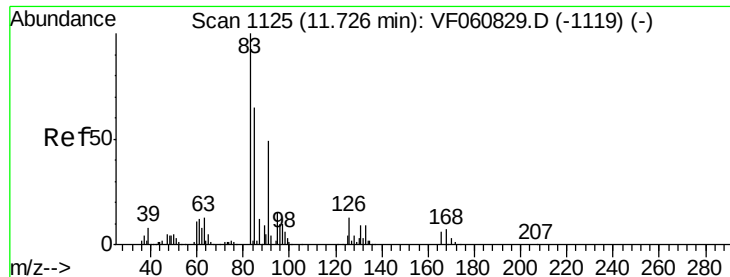
43 100

70 33.9 29.6 44.4

55 20.6 17.2 25.8

61 25.4 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 22.45 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

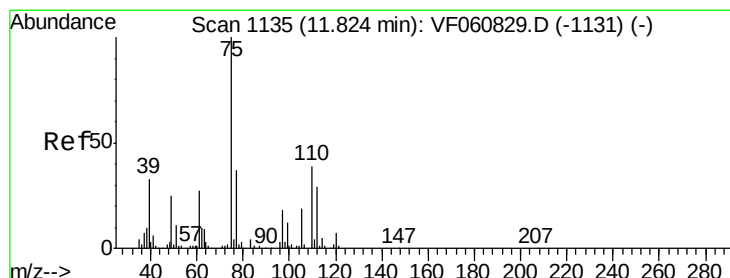
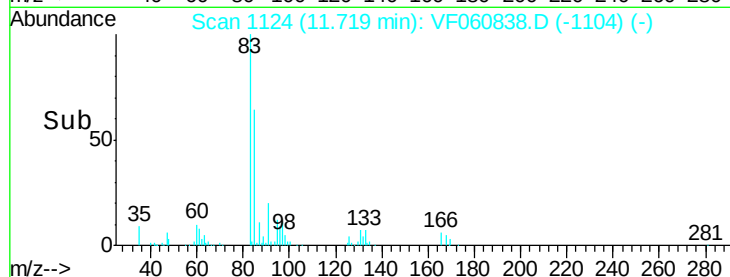
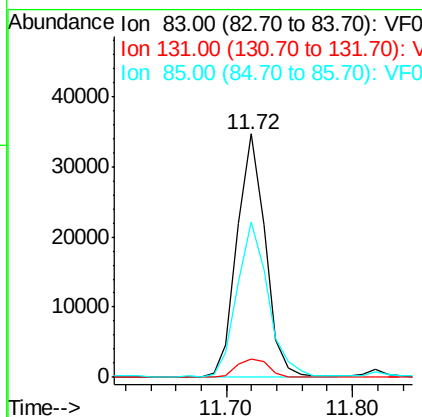
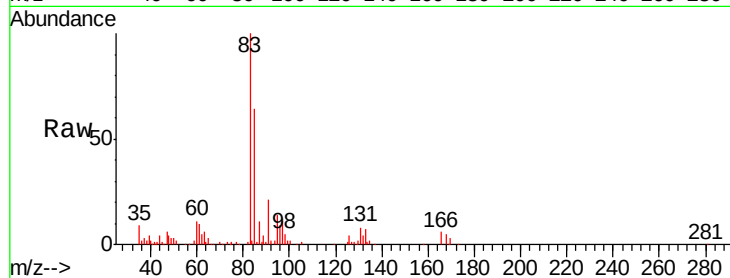
ClientSampleId :

VF1127SBS01

Tgt Ion:	83	Resp:	53977
Ion Ratio	Lower	Upper	
83	100		
131	7.7	4.7	14.1
85	63.6	32.6	97.8

Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM



#76

1,2,3-Trichloropropane

Concen: 23.12 ug/l

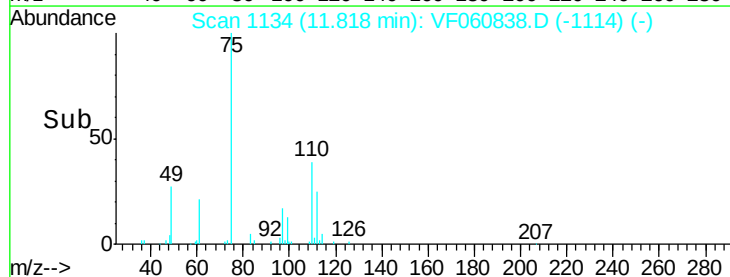
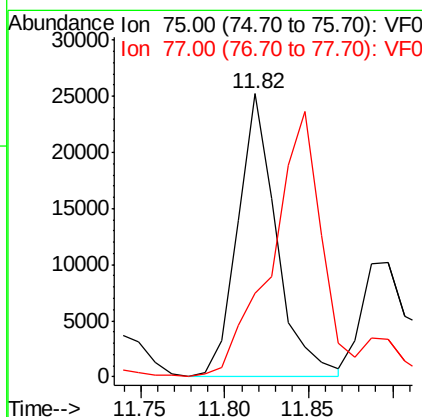
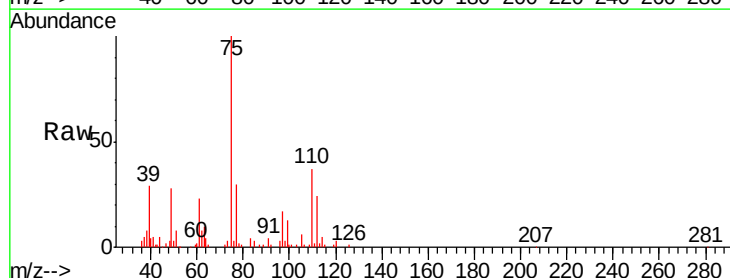
RT: 11.82 min Scan# 1134

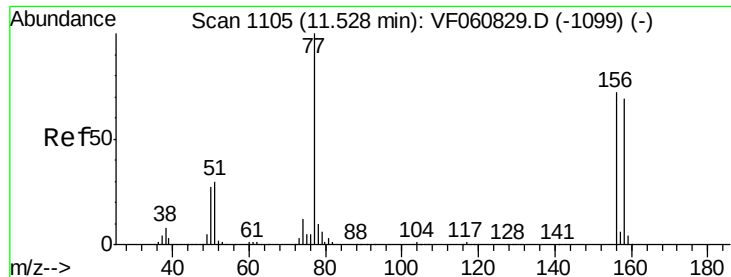
Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion:	75	Resp:	40411
Ion Ratio	Lower	Upper	
75	100		
77	29.8	18.4	55.4





#77

Bromobenzene

Concen: 20.47 ug/l

RT: 11.52 min Scan# 1104

Delta R.T. -0.01 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

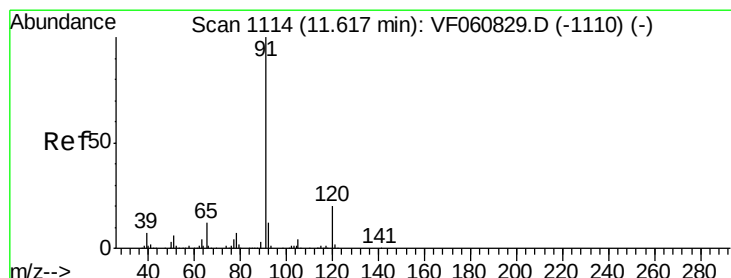
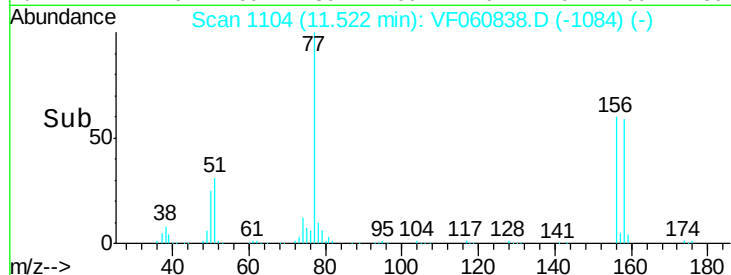
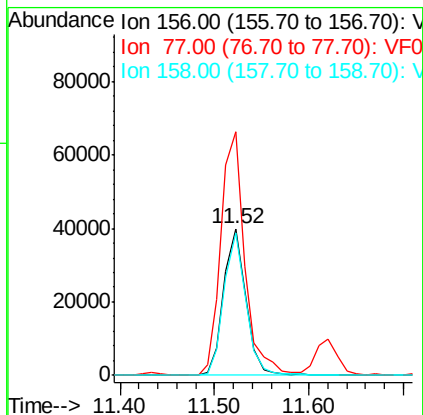
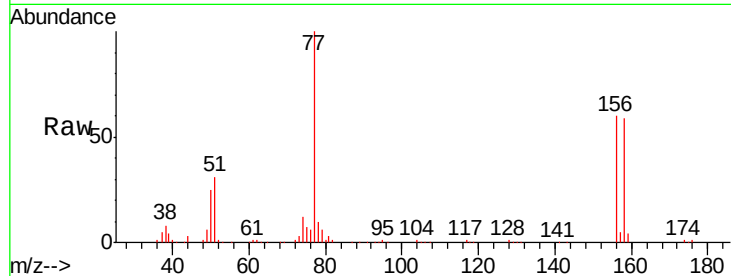
ClientSampleId :

VF1127SBS01

Tgt Ion: 156 Resp: 65572
 Ion Ratio Lower Upper
 156 100
 77 166.3 69.7 209.0
 158 97.4 47.8 143.4

Manual Integrations
 APPROVED

apatel
 11/28/2018 2:12:27 PM



#78

n-propylbenzene

Concen: 21.47 ug/l

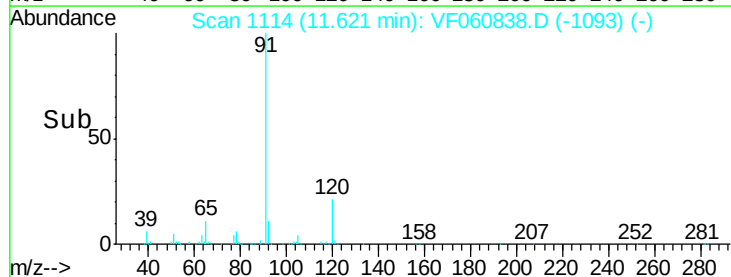
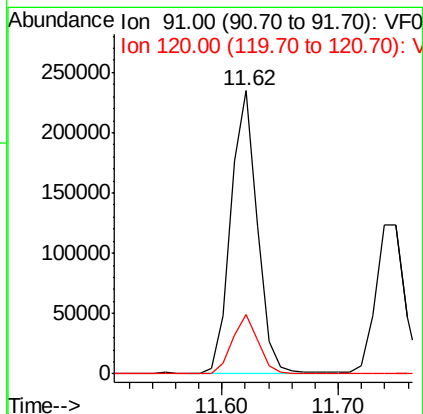
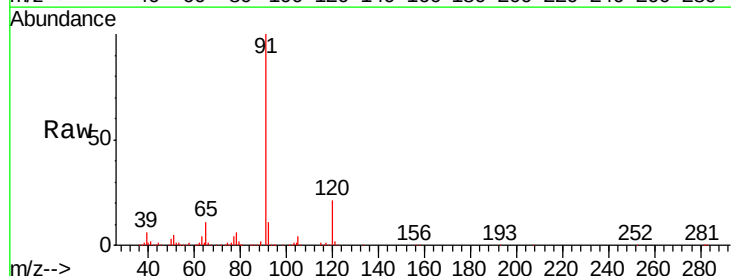
RT: 11.62 min Scan# 1114

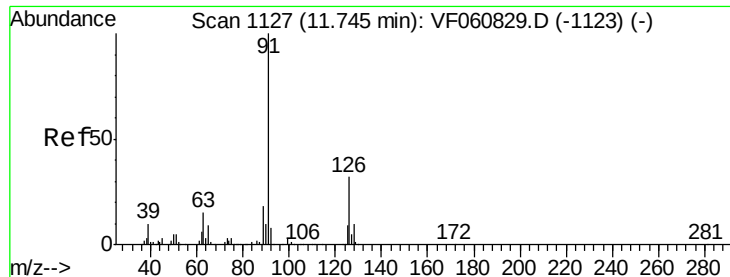
Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion: 91 Resp: 367313
 Ion Ratio Lower Upper
 91 100
 120 21.0 10.3 30.8





#79

2-Chlorotoluene

Concen: 21.39 ug/l

RT: 11.75 min Scan# 1127

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF1127SBS01

Tgt Ion: 91 Resp: 209856

Ion Ratio Lower Upper

91 100

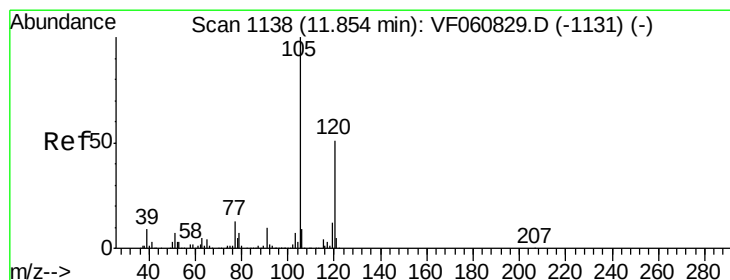
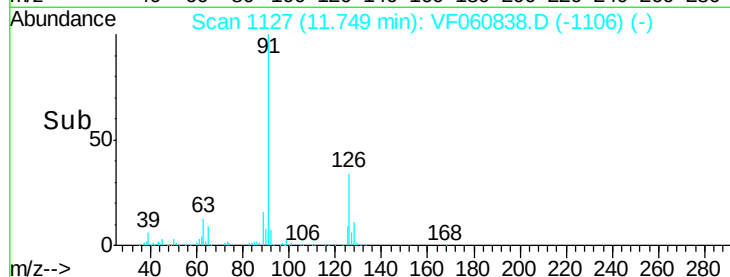
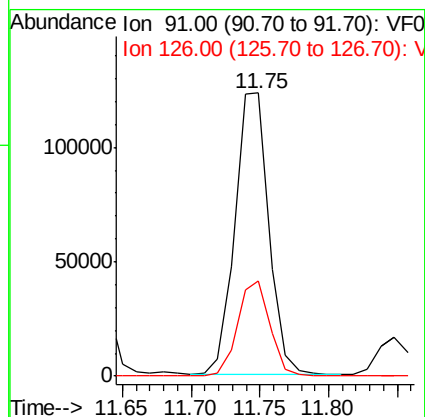
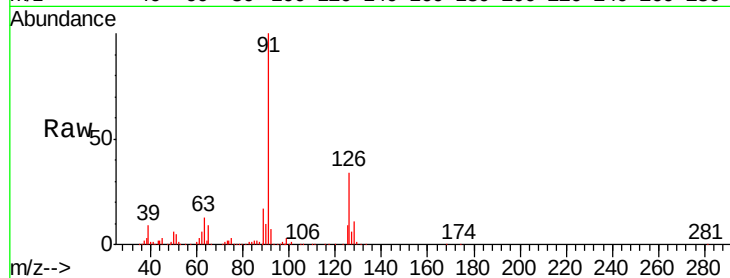
126 33.7 15.9 47.6

Manual Integrations

APPROVED

apatel

11/28/2018 2:12:27 PM



#80

1,3,5-Trimethylbenzene

Concen: 21.52 ug/l

RT: 11.85 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VF060838.D

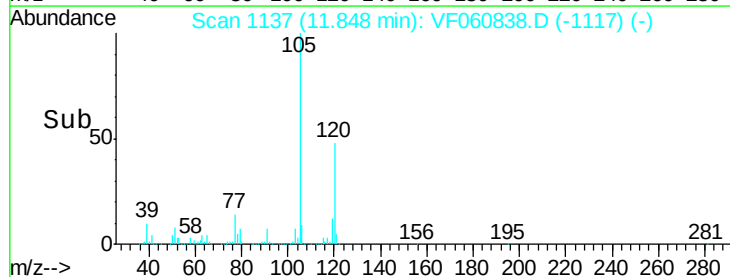
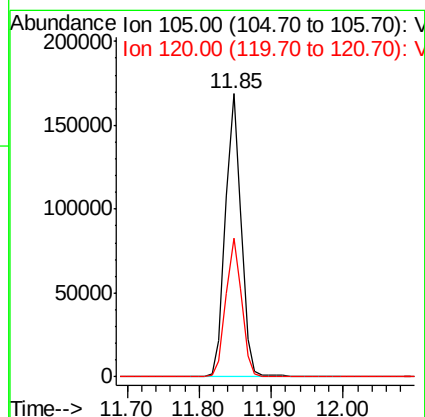
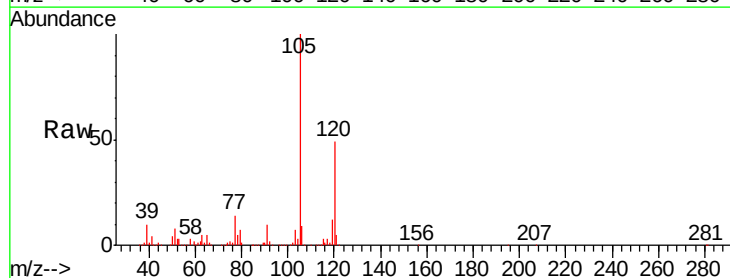
Acq: 27 Nov 2018 15:01

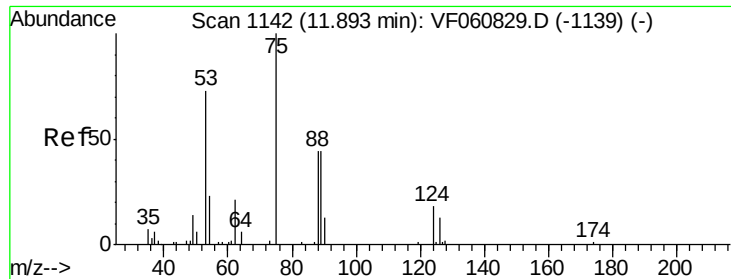
Tgt Ion: 105 Resp: 255254

Ion Ratio Lower Upper

105 100

120 49.1 25.8 77.3





#81

trans-1,4-Dichloro-2-butene

Concen: 19.95 ug/l m

RT: 11.90 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

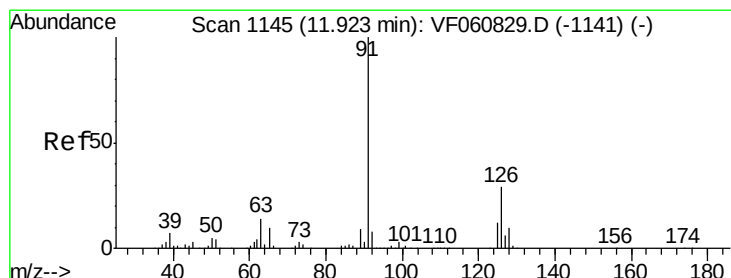
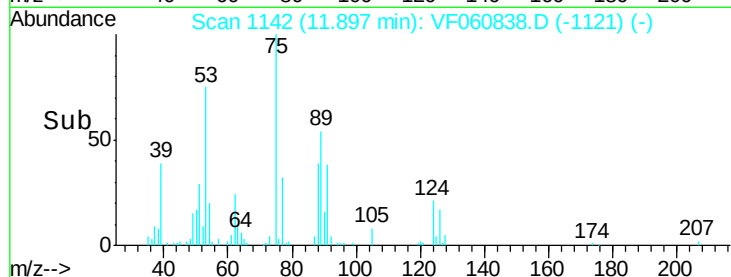
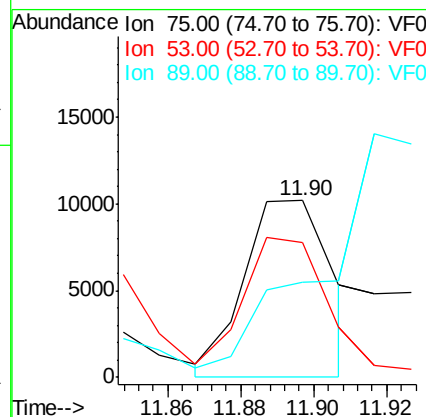
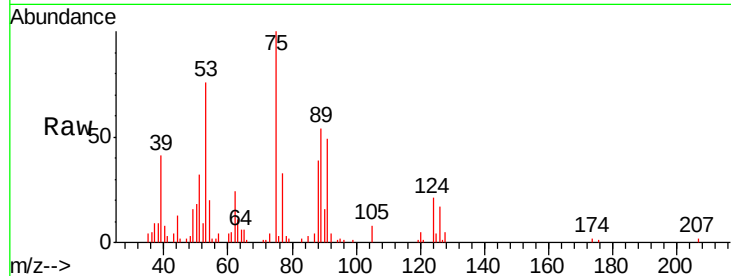
ClientSampleId :

VF1127SBS01

Tgt Ion:	75	Resp:	17083
Ion	Ratio	Lower	Upper
75	100		
53	76.3	65.9	98.9
89	53.7	38.8	58.2

Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM



#82

4-Chlorotoluene

Concen: 20.74 ug/l

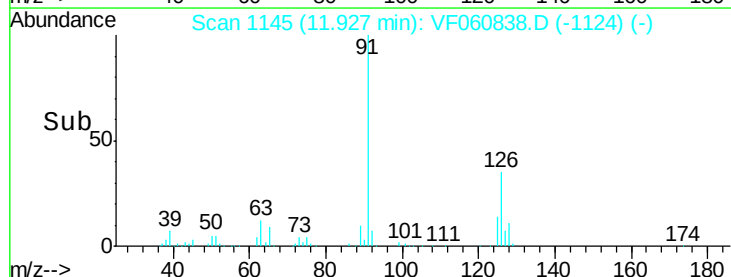
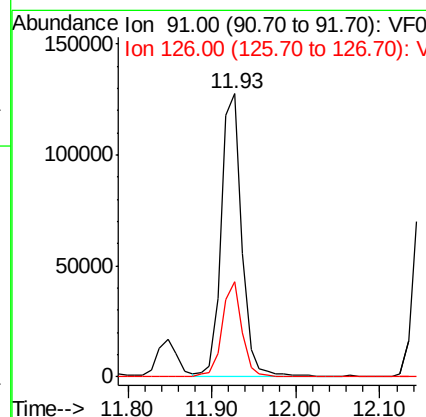
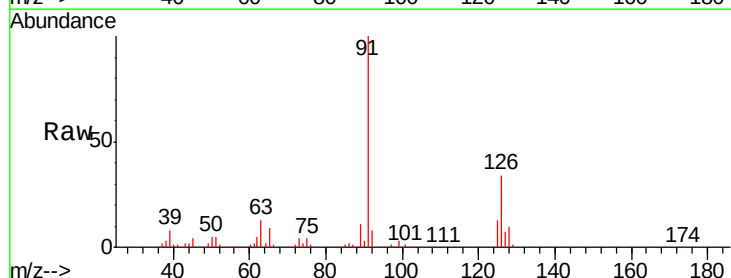
RT: 11.93 min Scan# 1145

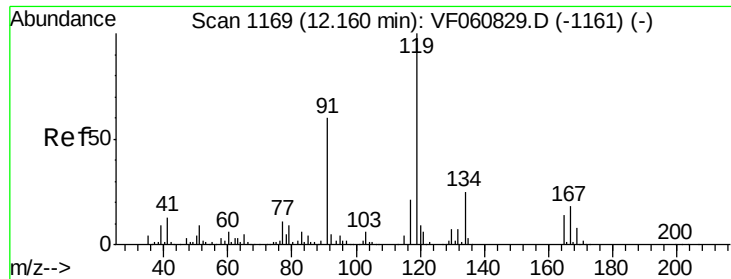
Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion:	91	Resp:	214148
Ion	Ratio	Lower	Upper
91	100		
126	33.7	14.8	44.4





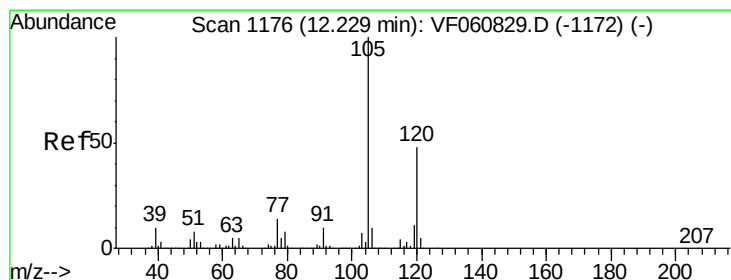
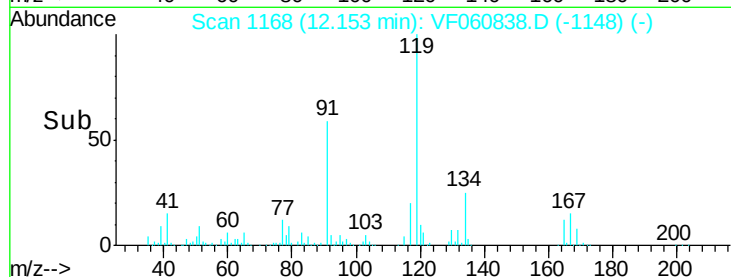
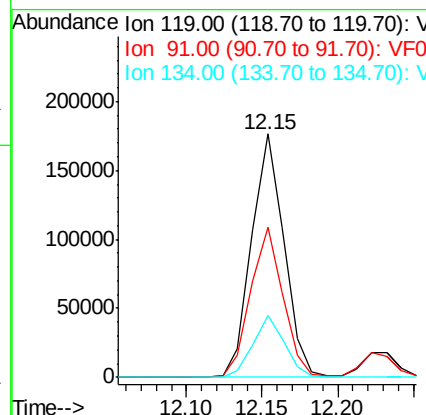
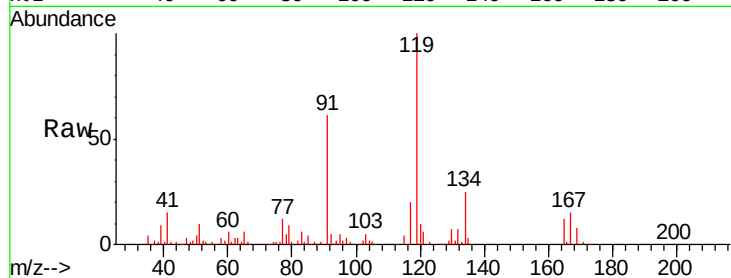
#83
 tert-Butylbenzene
 Concen: 22.11 ug/l
 RT: 12.15 min Scan# 1168
 Delta R.T. -0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1127SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	267159		
91	61.5	30.1	90.3	
134	25.2	12.6	37.8	

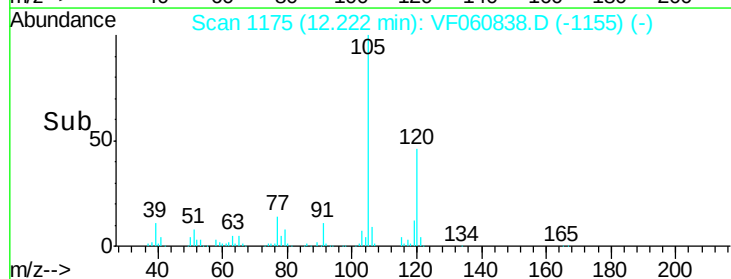
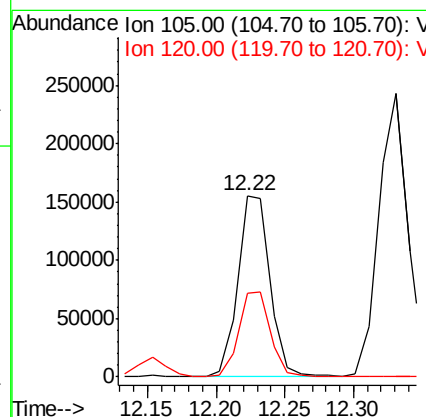
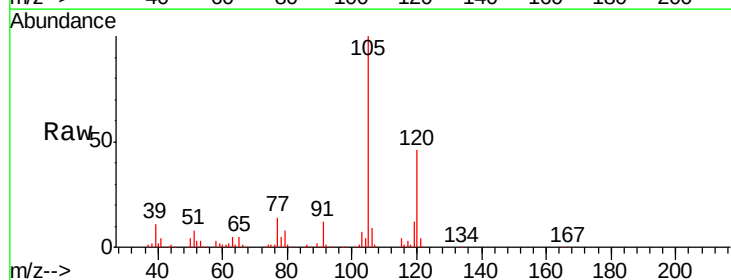
Manual Integrations
 APPROVED

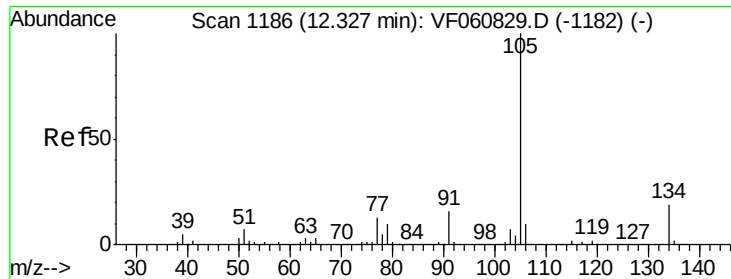
apatel
 11/28/2018 2:12:27 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.36 ug/l
 RT: 12.22 min Scan# 1175
 Delta R.T. -0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	252887		
120	46.3	23.8	71.5	





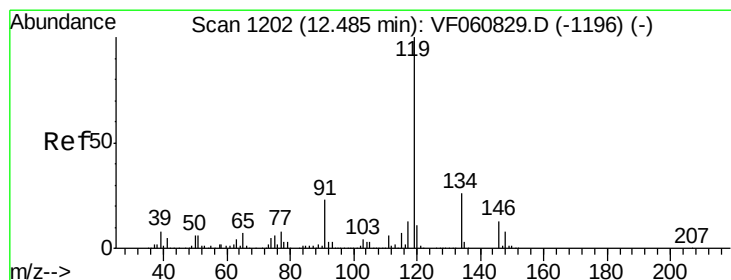
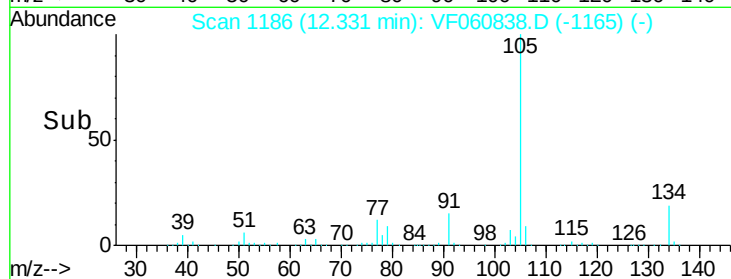
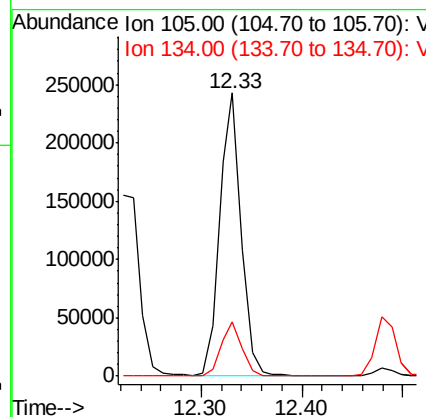
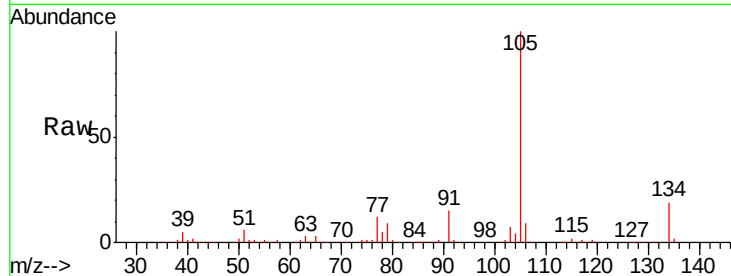
#85
 sec-Butylbenzene
 Concen: 21.67 ug/l
 RT: 12.33 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1127SBSD01

Tgt Ion:105 Resp: 358474
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.5 28.5

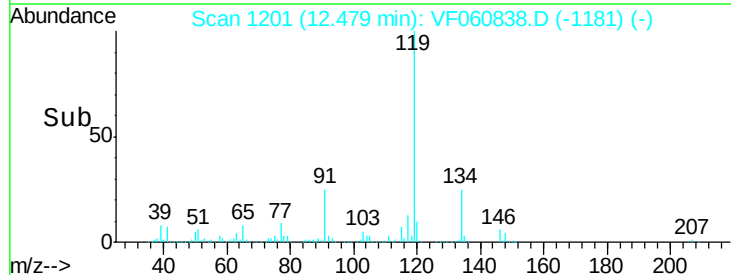
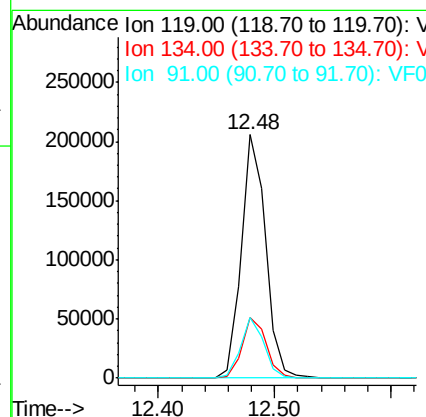
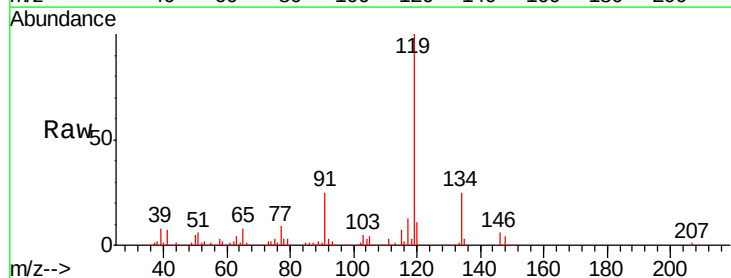
Manual Integrations
 APPROVED

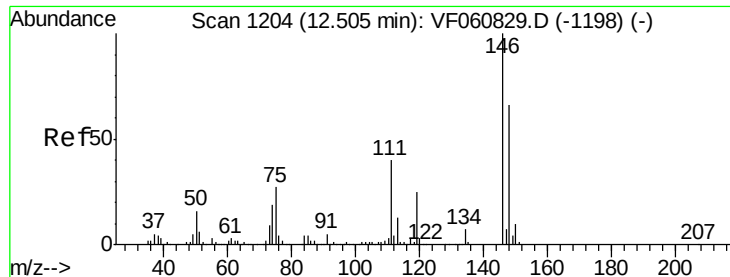
apatel
 11/28/2018 2:12:27 PM



#86
 p-Isopropyltoluene
 Concen: 21.45 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Tgt Ion:119 Resp: 297533
 Ion Ratio Lower Upper
 119 100
 134 24.8 12.9 38.6
 91 24.7 11.8 35.3





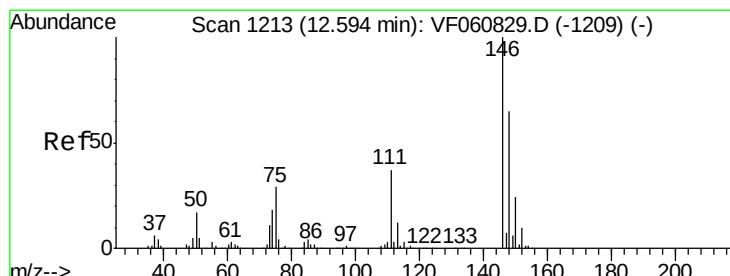
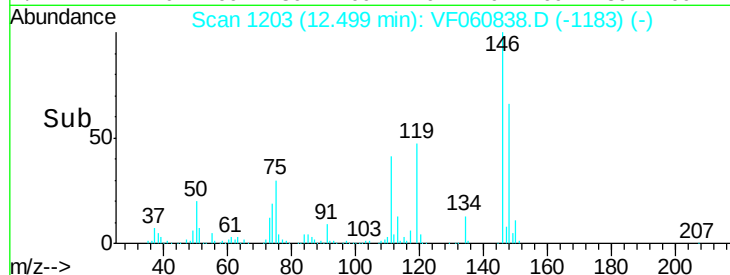
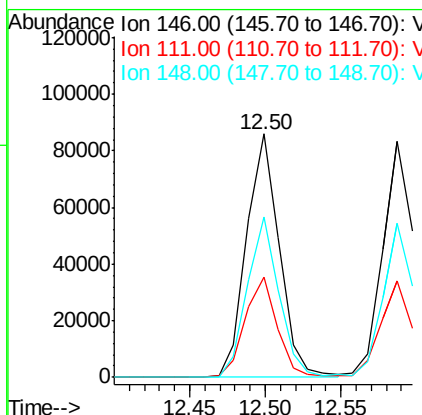
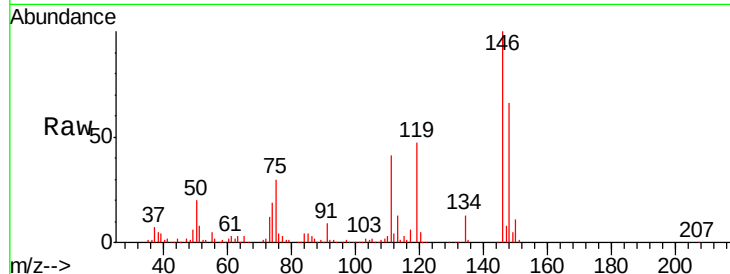
#87
 1,3-Dichlorobenzene
 Concen: 21.47 ug/l
 RT: 12.50 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1127SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.0	59.9
148	65.7	32.9	98.6

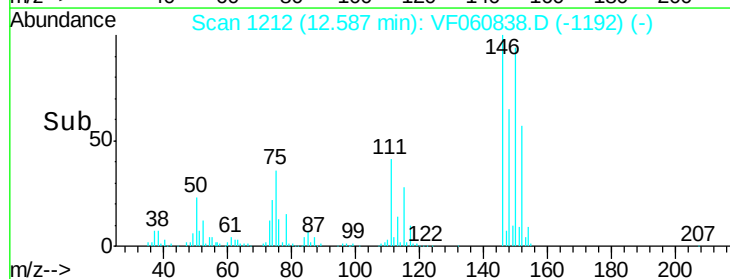
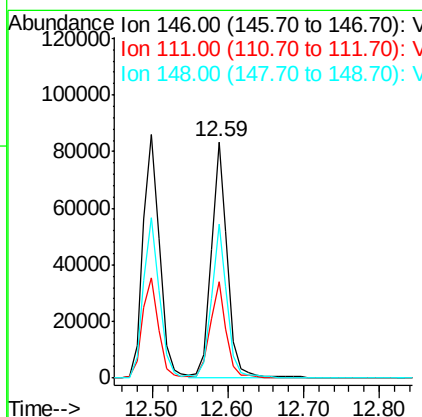
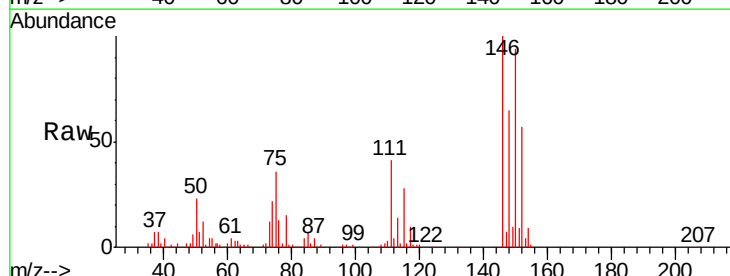
Manual Integrations
 APPROVED

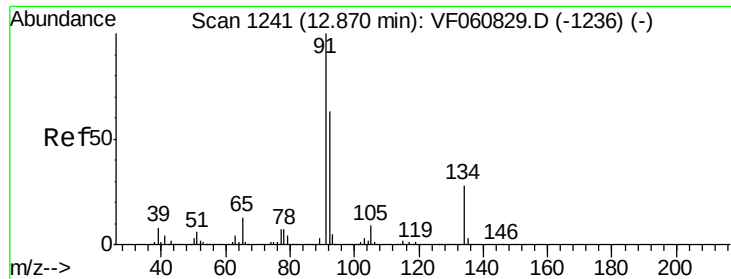
apatel
 11/28/2018 2:12:27 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.11 ug/l
 RT: 12.59 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	18.9	56.7
148	65.2	32.3	96.9





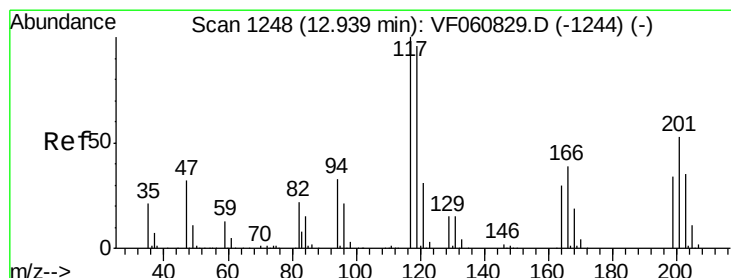
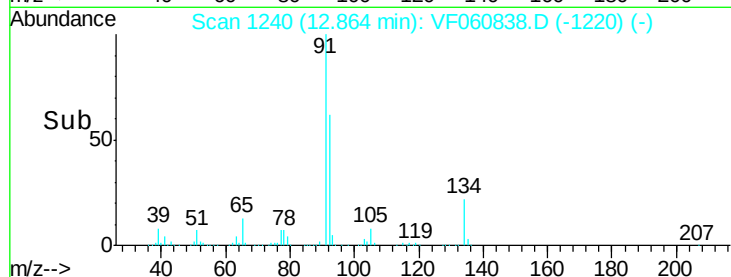
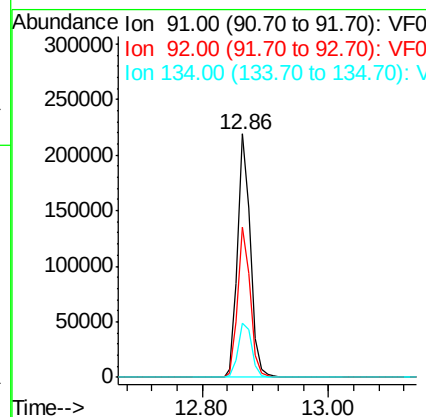
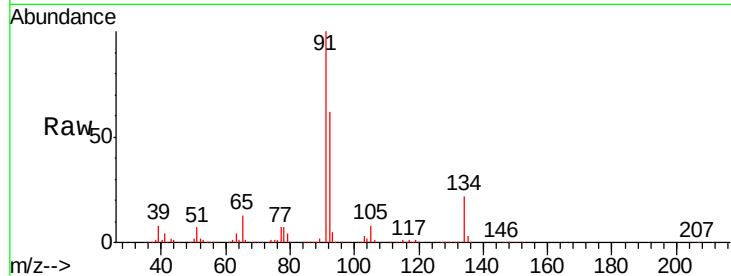
#89
n-Butylbenzene
Concen: 21.74 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF1127SBS01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.8	31.6	94.7
134	22.4	13.8	41.4

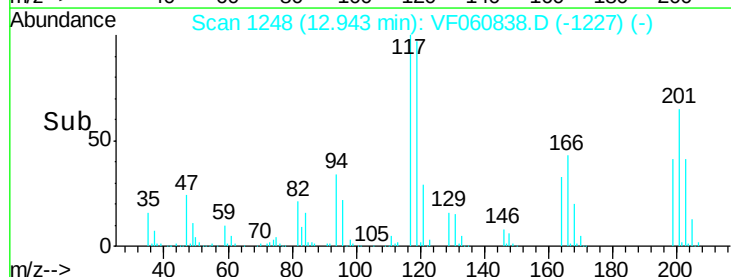
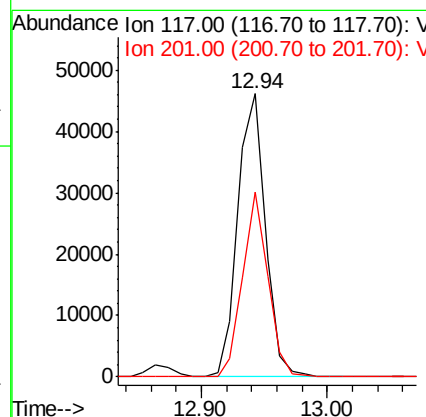
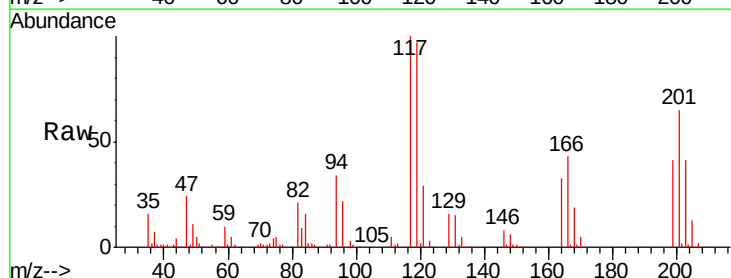
Manual Integrations
APPROVED

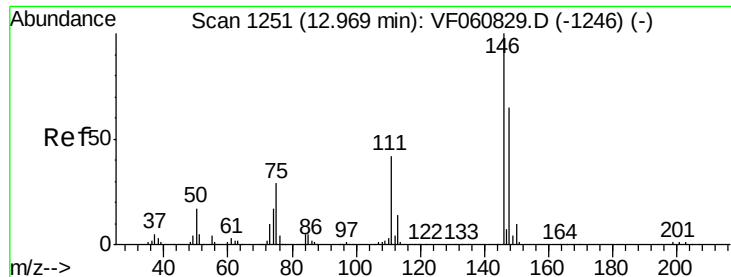
apatel
11/28/2018 2:12:27 PM



#90
Hexachloroethane
Concen: 20.83 ug/l
RT: 12.94 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VF060838.D
Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	65.3	26.7	80.1





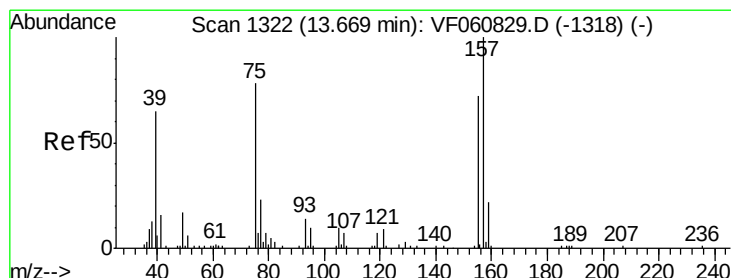
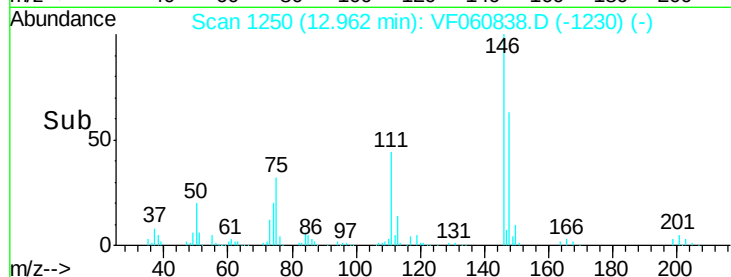
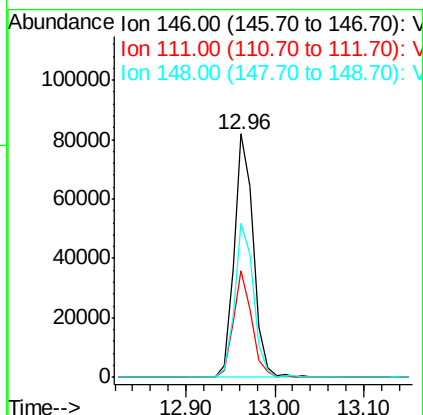
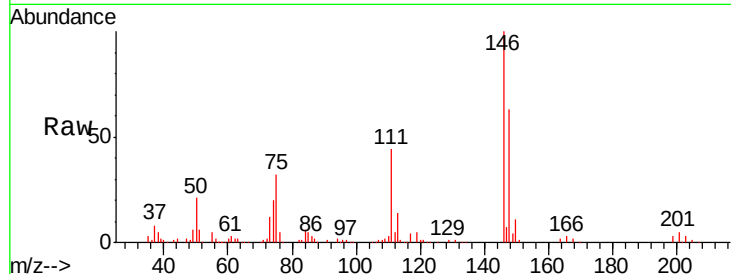
#91
 1,2-Dichlorobenzene
 Concen: 21.55 ug/l
 RT: 12.96 min Scan# 1250
 Delta R.T. -0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1127SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.2	63.6
148	63.2	32.5	97.5

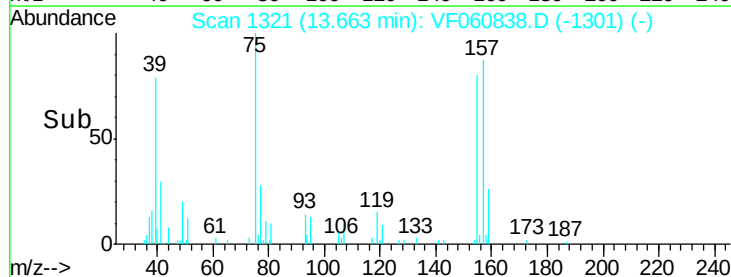
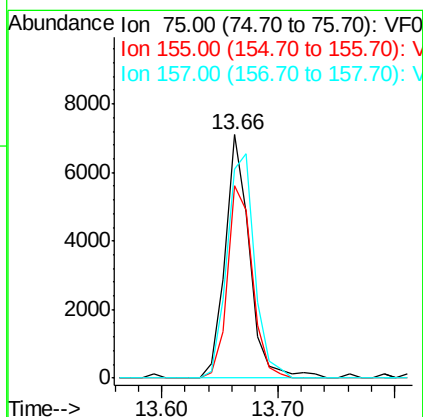
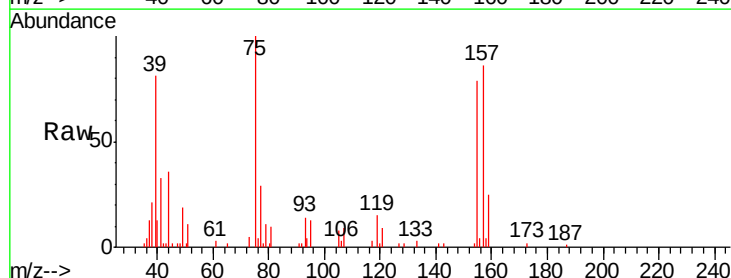
Manual Integrations
 APPROVED

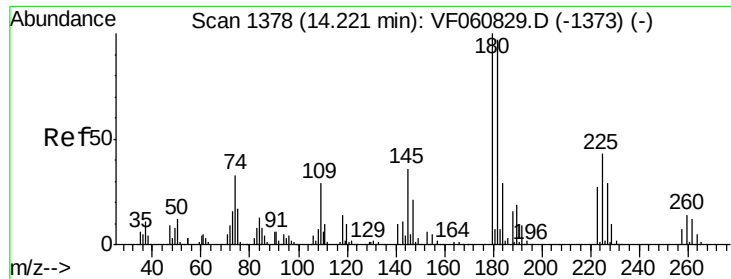
apatel
 11/28/2018 2:12:27 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.17 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.2	45.6	136.9
157	86.1	63.8	191.5





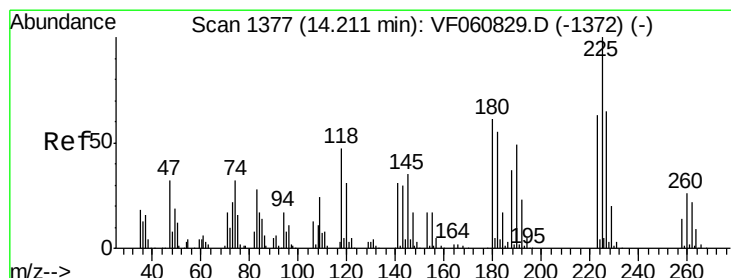
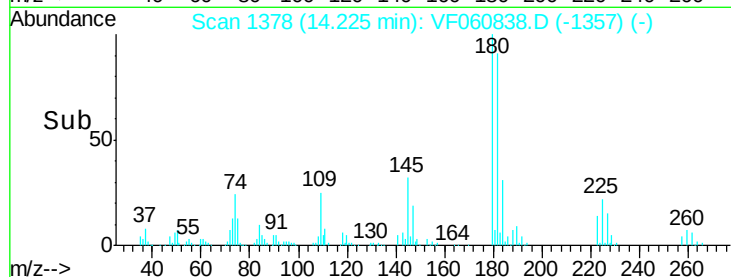
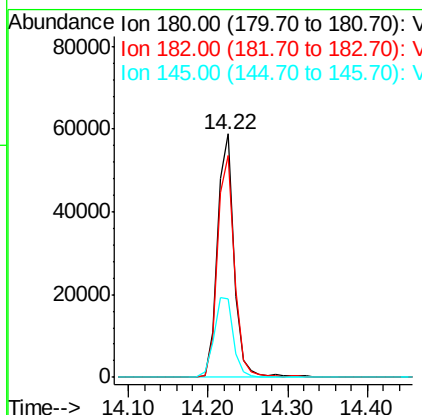
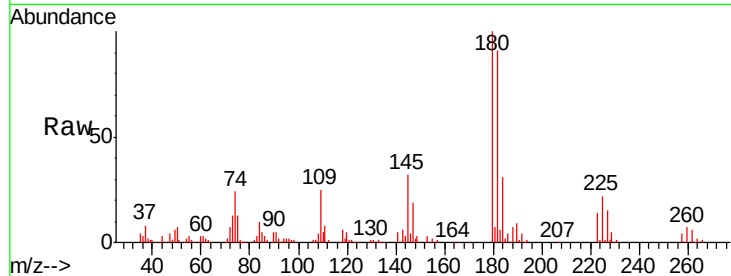
#93
 1,2,4-Trichlorobenzene
 Concen: 21.66 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.00 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1127SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	87313		
182	91.0	48.5	145.5	
145	32.5	18.1	54.3	

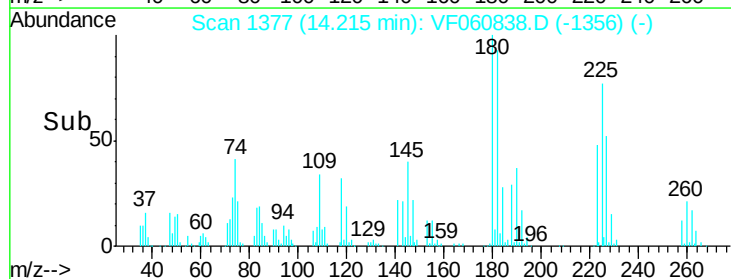
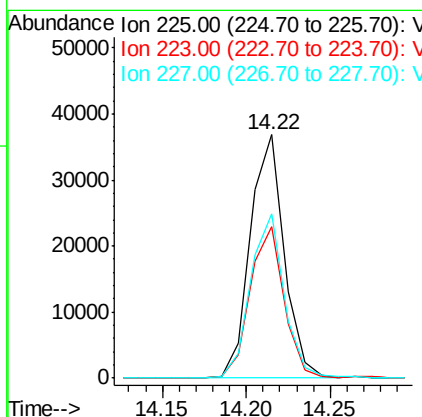
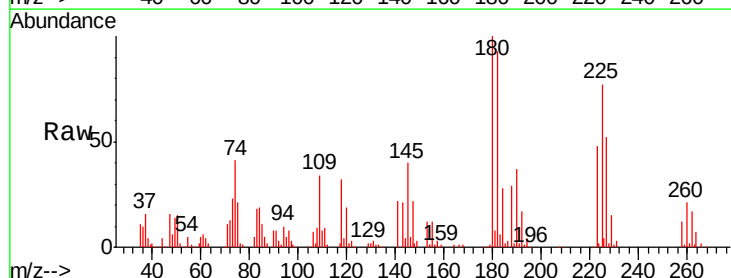
Manual Integrations
 APPROVED

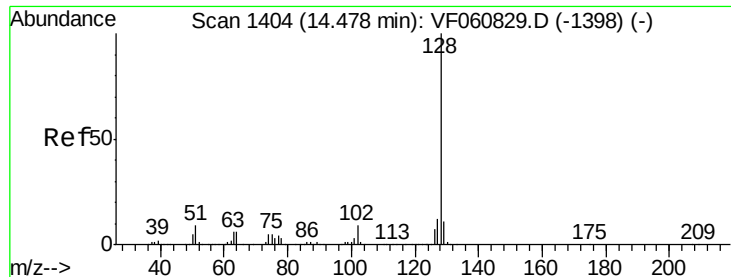
apatel
 11/28/2018 2:12:27 PM



#94
 Hexachlorobutadiene
 Concen: 19.15 ug/l
 RT: 14.22 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF060838.D
 Acq: 27 Nov 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	51460		
223	62.4	31.4	94.3	
227	67.2	32.5	97.5	





#95

Naphthalene

Concen: 20.05 ug/l

RT: 14.48 min Scan# 1404

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Instrument :

MSVOA_F

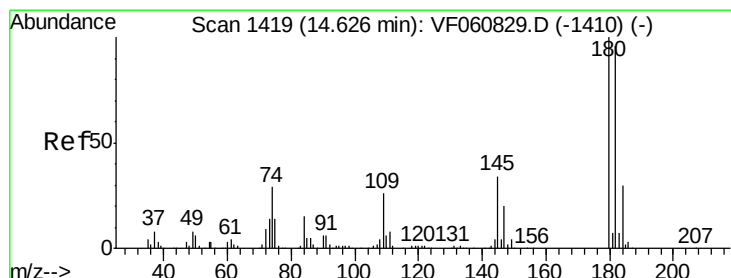
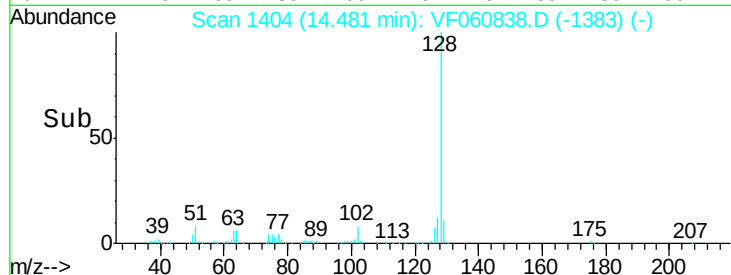
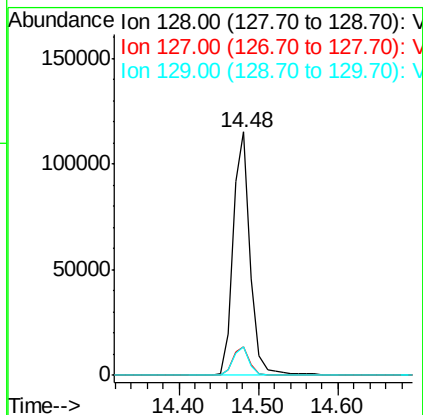
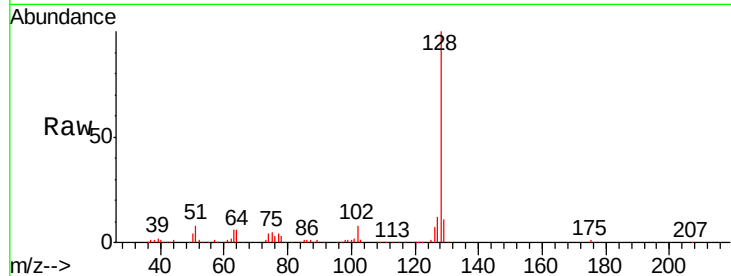
ClientSampleId :

VF1127SBS01

Tgt Ion:	128	Resp:	173298
Ion Ratio		Lower	Upper
128	100		
127	11.9	9.9	14.9
129	11.5	9.1	13.7

Manual Integrations
APPROVED

apatel
11/28/2018 2:12:27 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.71 ug/l

RT: 14.63 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VF060838.D

Acq: 27 Nov 2018 15:01

Tgt Ion:	180	Resp:	77551
Ion Ratio		Lower	Upper
180	100		
182	96.3	47.9	143.8
145	31.1	17.2	51.5

