

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121218\
 Data File : VF060998.D
 Acq On : 12 Dec 2018 16:21
 Operator : VA/AP
 Sample : VF1212SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Manual Integrations
 APPROVED

apatel
 12/13/2018 3:41:46 PM

Quant Time: Dec 13 02:28:03 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	4.86	168	163663	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	283267	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	257651	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	140491	50.00	ug/l	-0.03

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	113990	59.12	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	118.24%	
35) Dibromofluoromethane	4.10	113	127112	56.56	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	113.12%	
50) Toluene-d8	7.55	98	332467	50.22	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.40	95	156485	52.01	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	104.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	56645	23.148	ug/l	95
3) Chloromethane	1.08	50	39034	24.513	ug/l	94
4) Vinyl Chloride	1.13	62	37897	25.514	ug/l	96
5) Bromomethane	1.32	94	25638	24.479	ug/l	96
6) Chloroethane	1.38	64	17082	26.605	ug/l	89
7) Trichlorofluoromethane	1.48	101	81038	25.428	ug/l #	82
8) Diethyl Ether	1.63	74	11629	25.376	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.82	101	41527	25.775	ug/l	93
10) Methyl Iodide	1.89	142	67088m	27.395	ug/l	
11) Tert butyl alcohol	2.57	59	11192	141.611	ug/l #	80
12) 1,1-Dichloroethene	1.78	96	29871	23.050	ug/l #	85
13) Acrolein	2.00	56	7078	94.522	ug/l	96
14) Allyl chloride	2.09	41	33540	20.765	ug/l	92
15) Acrylonitrile	2.94	53	25284	142.697	ug/l	96
16) Acetone	2.24	43	49778	140.009	ug/l	99
17) Carbon Disulfide	1.83	76	88802	25.557	ug/l	98
18) Methyl Acetate	2.34	43	18941	31.132	ug/l	95
19) Methyl tert-butyl Ether	2.43	73	71538	24.510	ug/l	97
20) Methylene Chloride	2.25	84	35178m	26.971	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	24373	19.509	ug/l	97
22) Diisopropyl ether	2.79	45	110458	25.124	ug/l	99
23) Vinyl Acetate	3.19	43	281178	139.908	ug/l #	95
24) 1,1-Dichloroethane	2.86	63	64511	24.662	ug/l	97
25) 2-Butanone	4.33	43	73578	119.648	ug/l	97
26) 2,2-Dichloropropane	3.59	77	43513	25.658	ug/l	98
27) cis-1,2-Dichloroethene	3.47	96	52740	25.930	ug/l	97
28) Bromochloromethane	3.71	49	30991	24.686	ug/l	90
29) Tetrahydrofuran	4.06	42	32894	126.191	ug/l	96
30) Chloroform	3.86	83	102937	25.569	ug/l	98
31) Cyclohexane	3.68	56	70518m	25.976	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	64666	23.161	ug/l	95
36) 1,1-Dichloropropene	4.27	75	73597	23.424	ug/l	93
37) Ethyl Acetate	4.11	43	33052	25.887	ug/l #	69
38) Carbon Tetrachloride	3.98	117	64772	23.341	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121218\
 Data File : VF060998.D
 Acq On : 12 Dec 2018 16:21
 Operator : VA/AP
 Sample : VF1212SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF1212SBS01

Manual Integrations
 APPROVED

apatel
 12/13/2018 3:41:46 PM

Quant Time: Dec 13 02:28:03 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	5.44	83	77159	23.434	ug/l	96
40) Benzene	4.63	78	165487	23.842	ug/l	97
41) Methacrylonitrile	4.74	41	17582	24.628	ug/l	89
42) 1,2-Dichloroethane	4.93	62	60440	23.851	ug/l	94
43) Isopropyl Acetate	6.95	43	38181	22.755	ug/l #	99
44) Trichloroethene	5.49	130	52268	23.031	ug/l	79
45) 1,2-Dichloropropane	6.22	63	44315	24.583	ug/l	93
46) Dibromomethane	6.08	93	28659	23.436	ug/l	89
47) Bromodichloromethane	6.39	83	89418	27.530	ug/l	96
48) Methyl methacrylate	6.71	41	27516	23.809	ug/l	98
49) 1,4-Dioxane	6.71	88	4546	537.459	ug/l #	77
51) 4-Methyl-2-Pentanone	8.26	43	134638	114.352	ug/l	99
52) Toluene	7.61	92	110919	22.750	ug/l	99
53) t-1,3-Dichloropropene	8.28	75	63356	23.981	ug/l	91
54) cis-1,3-Dichloropropene	7.30	75	77922	23.824	ug/l	99
55) 1,1,2-Trichloroethane	8.49	97	30519	21.482	ug/l	94
56) Ethyl methacrylate	8.61	69	35181	22.292	ug/l	92
57) 1,3-Dichloropropane	8.85	76	59977	24.131	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.29	63	35163	217.829	ug/l	96
59) 2-Hexanone	9.49	43	98623	119.396	ug/l	97
60) Dibromochloromethane	8.71	129	49785	23.519	ug/l	95
61) 1,2-Dibromoethane	8.99	107	35160	22.910	ug/l	100
64) Tetrachloroethene	8.15	164	45779	23.262	ug/l	94
65) Chlorobenzene	9.79	112	125239	24.986	ug/l	94
66) 1,1,1,2-Tetrachloroethane	9.92	131	51276	23.796	ug/l	95
67) Ethyl Benzene	9.89	91	231078	24.764	ug/l	100
68) m/p-Xylenes	10.13	106	155958	46.470	ug/l	94
69) o-Xylene	10.71	106	92368	24.959	ug/l	92
70) Styrene	10.78	104	130197	25.379	ug/l	95
71) Bromoform	10.77	173	25260	24.269	ug/l	91
73) Isopropylbenzene	11.12	105	272374	24.533	ug/l	99
74) N-amyl acetate	11.37	43	64137	25.017	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.69	83	47856	26.191	ug/l	92
76) 1,2,3-Trichloropropane	11.79	75	34059	25.644	ug/l	94
77) Bromobenzene	11.49	156	56443	23.189	ug/l	86
78) n-propylbenzene	11.59	91	328298	25.250	ug/l	100
79) 2-Chlorotoluene	11.72	91	186661	25.038	ug/l	97
80) 1,3,5-Trimethylbenzene	11.82	105	233411	25.897	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.87	75	15668m	24.077	ug/l	
82) 4-Chlorotoluene	11.90	91	191679	24.432	ug/l	96
83) tert-Butylbenzene	12.12	119	235367	25.636	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	226955	25.231	ug/l	94
85) sec-Butylbenzene	12.30	105	321893	25.612	ug/l	96
86) p-Isopropyltoluene	12.46	119	265687	25.214	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	111849	24.158	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	106738	23.656	ug/l	93
89) n-Butylbenzene	12.84	91	279296	26.213	ug/l	97
90) Hexachloroethane	12.91	117	62960	24.813	ug/l	99
91) 1,2-Dichlorobenzene	12.94	146	108357	24.713	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	7568	21.423	ug/l	98

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121218\
Data File : VF060998.D
Acq On : 12 Dec 2018 16:21
Operator : VA/AP
Sample : VF1212SBS01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM

Quant Time: Dec 13 02:28:03 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	14.19	180	76938	25.114	ug/l	97
94) Hexachlorobutadiene	14.18	225	50770	24.860	ug/l	93
95) Naphthalene	14.45	128	134963	20.643	ug/l	100
96) 1,2,3-Trichlorobenzene	14.60	180	69019	24.263	ug/l	96

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

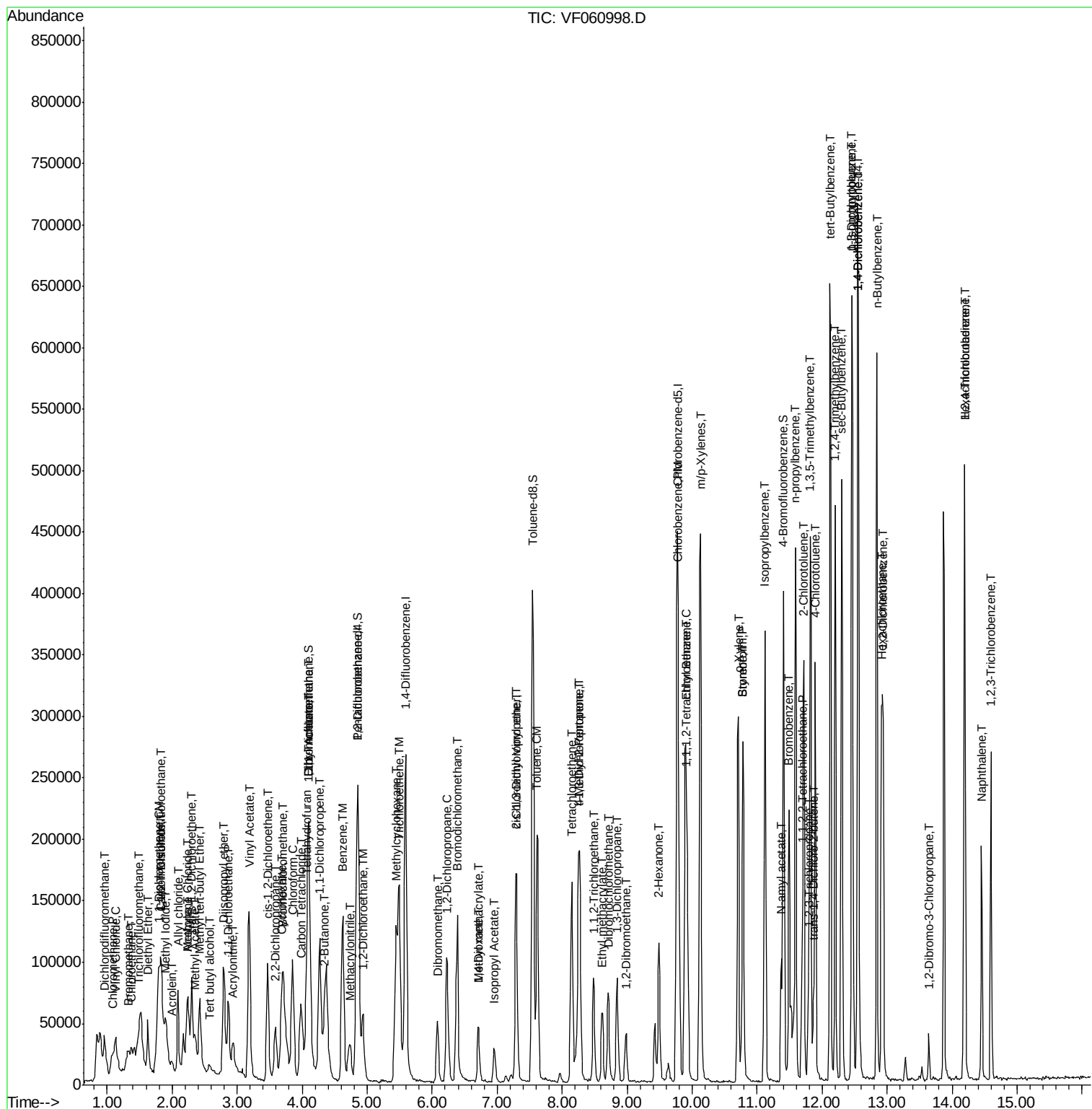
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121218\
 Data File : VF060998.D
 Acq On : 12 Dec 2018 16:21
 Operator : VA/AP
 Sample : VF1212SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

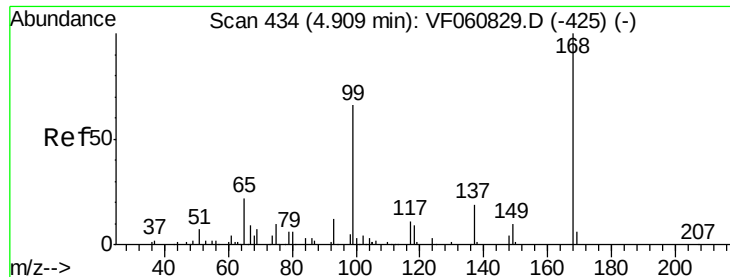
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Manual Integrations
 APPROVED

apatel
 12/13/2018 3:41:46 PM

Quant Time: Dec 13 02:28:03 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion:168 Resp: 163663

Ion Ratio Lower Upper

168 100

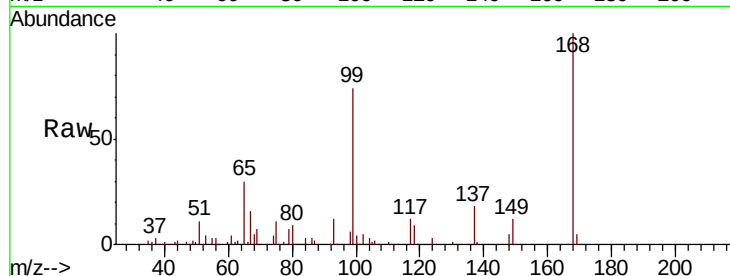
99 73.9 52.6 79.0

Manual Integrations

APPROVED

apatel

12/13/2018 3:41:46 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

50000

40000

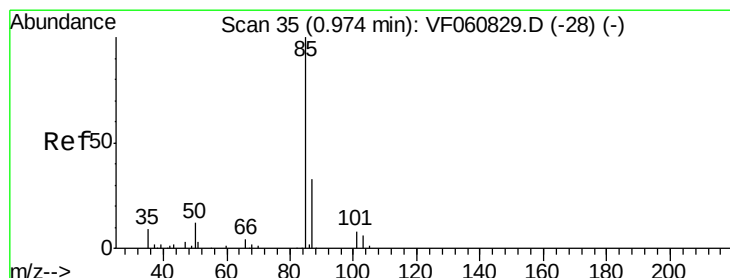
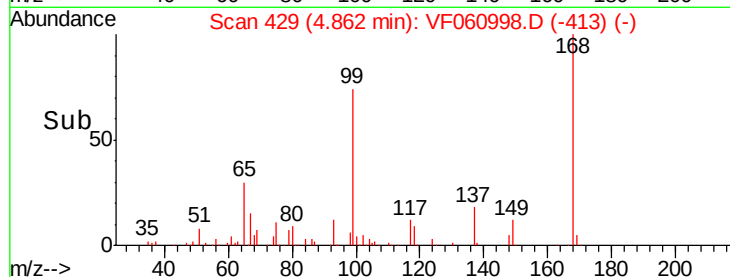
30000

20000

10000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 23.148 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.02 min

Lab File: VF060998.D

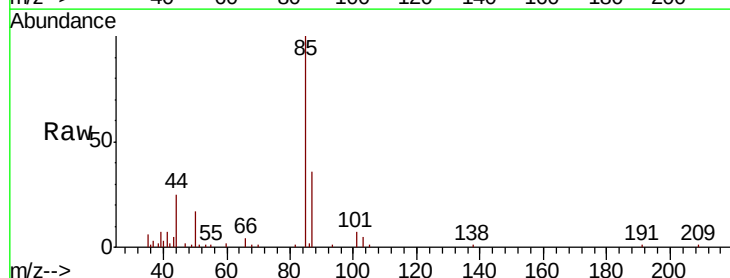
Acq: 12 Dec 2018 16:21

Tgt Ion: 85 Resp: 56645

Ion Ratio Lower Upper

85 100

87 36.1 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

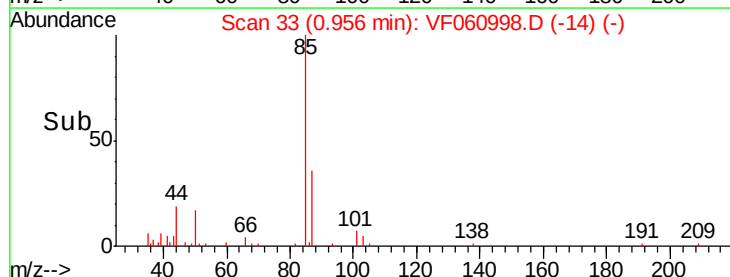
15000

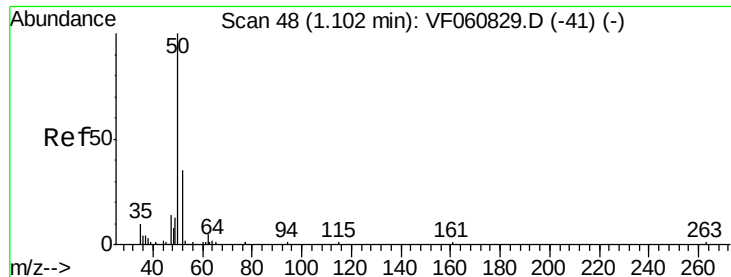
10000

5000

0

Time-->





#3

Chloromethane

Concen: 24.513 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion: 50 Resp: 39034

Ion Ratio Lower Upper

50 100

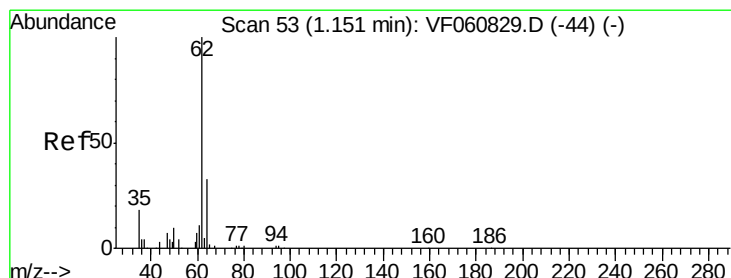
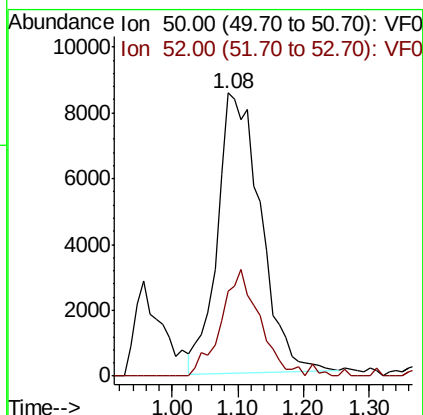
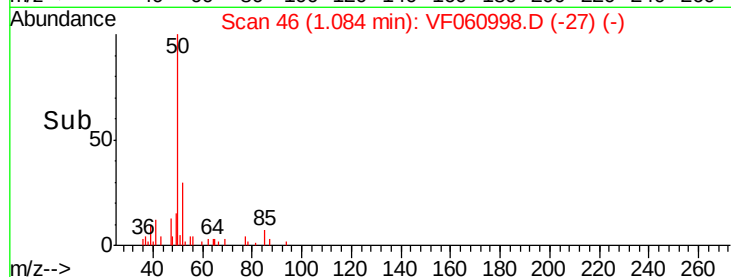
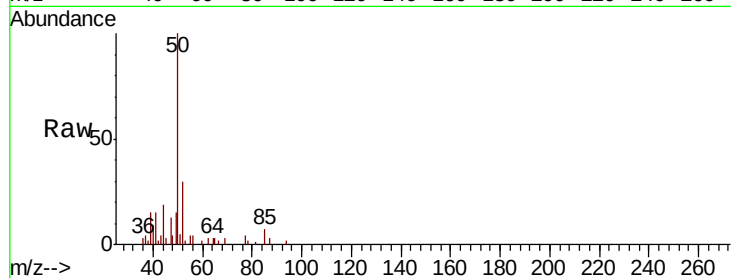
52 30.0 27.0 40.4

Manual Integrations

APPROVED

apatel

12/13/2018 3:41:46 PM



#4

Vinyl Chloride

Concen: 25.514 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.02 min

Lab File: VF060998.D

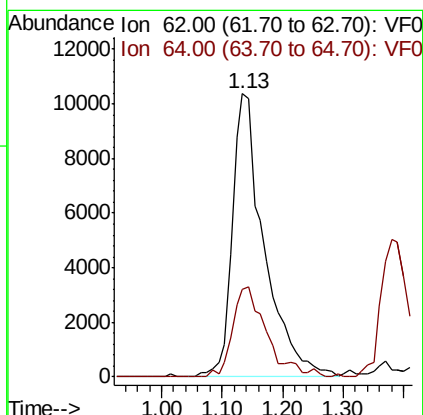
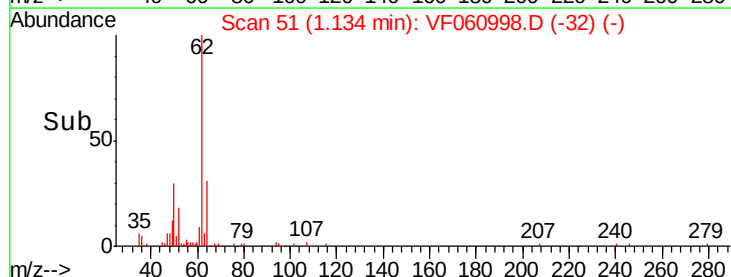
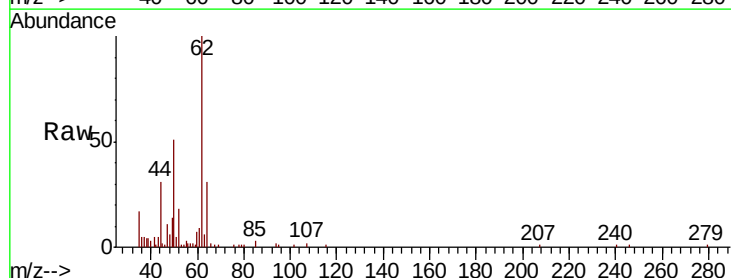
Acq: 12 Dec 2018 16:21

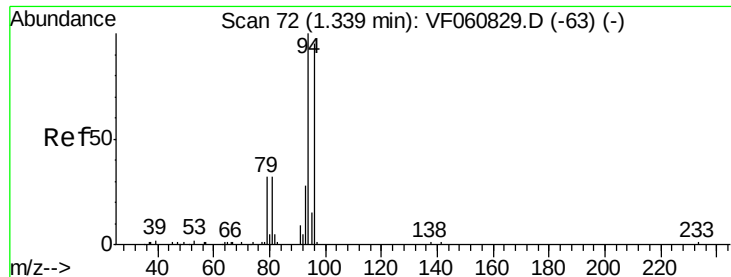
Tgt Ion: 62 Resp: 37897

Ion Ratio Lower Upper

62 100

64 30.8 26.4 39.6





#5

Bromomethane

Concen: 24.479 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion: 94 Resp: 25638

Ion Ratio Lower Upper

94 100

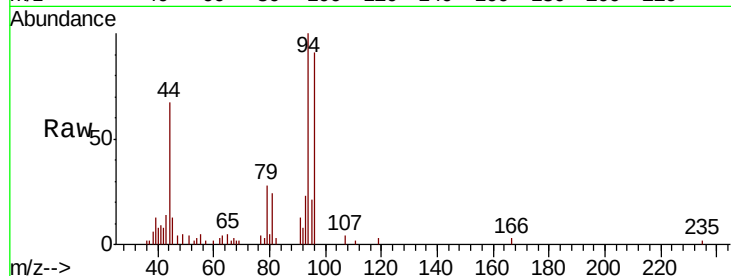
96 90.9 75.9 113.9

Manual Integrations

APPROVED

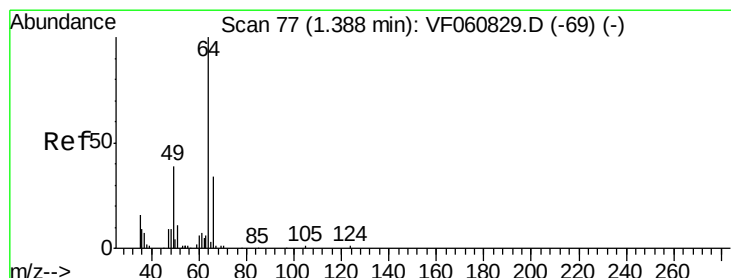
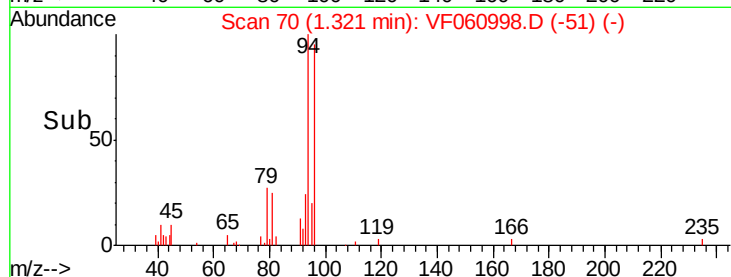
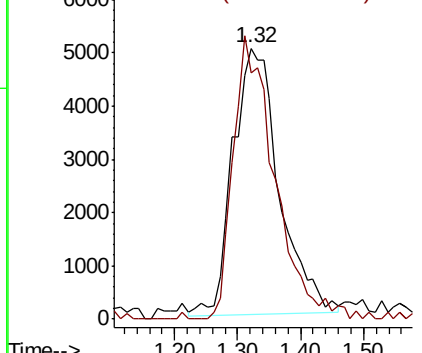
apatel

12/13/2018 3:41:46 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 26.605 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF060998.D

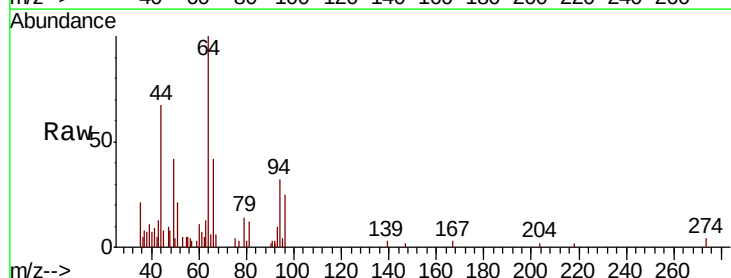
Acq: 12 Dec 2018 16:21

Tgt Ion: 64 Resp: 17082

Ion Ratio Lower Upper

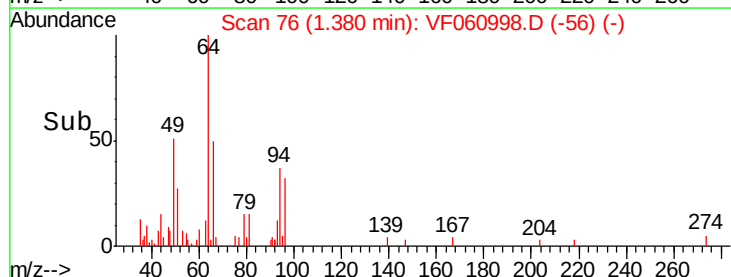
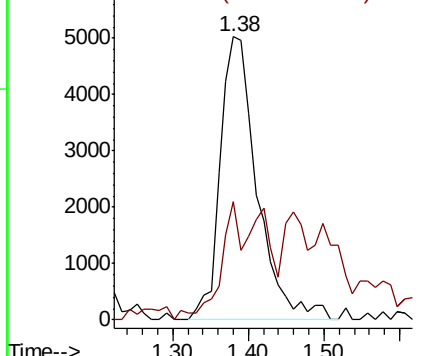
64 100

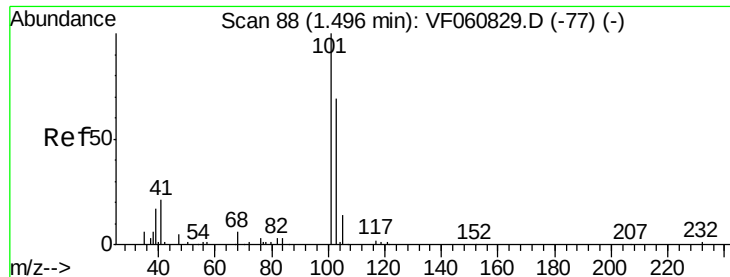
66 41.8 28.1 42.1



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

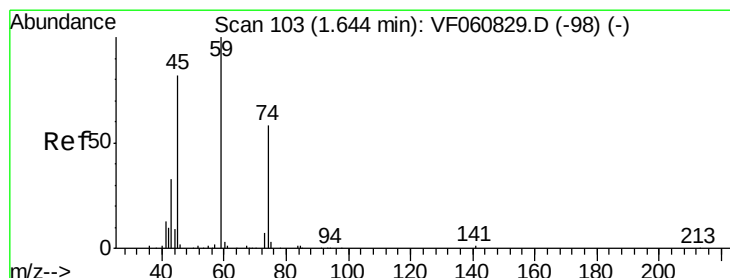
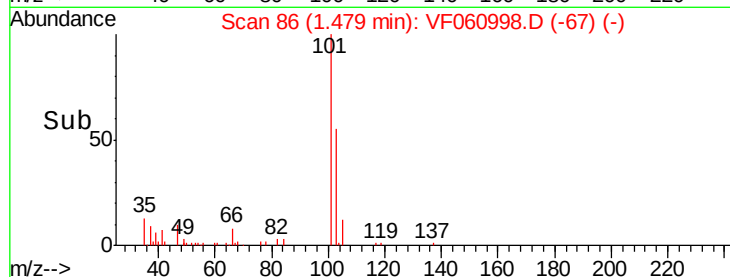
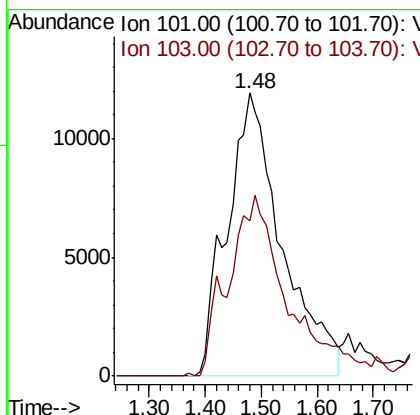
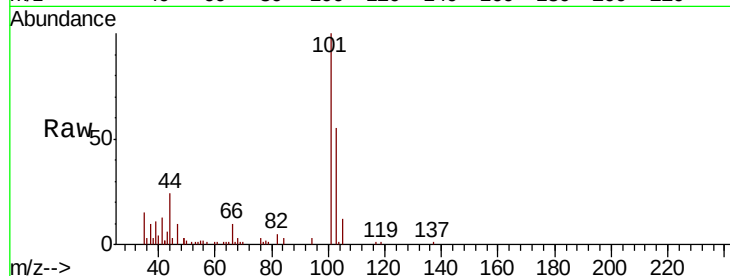
Trichlorofluoromethane
 Concen: 25.428 ug/l
 RT: 1.48 min Scan# 86
 Delta R.T. -0.02 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	54.8	55.4	83.0#

Manual Integrations
 APPROVED

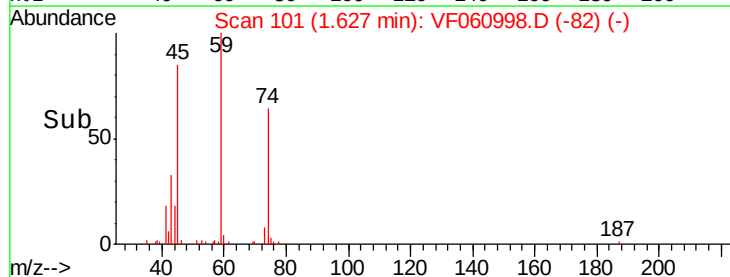
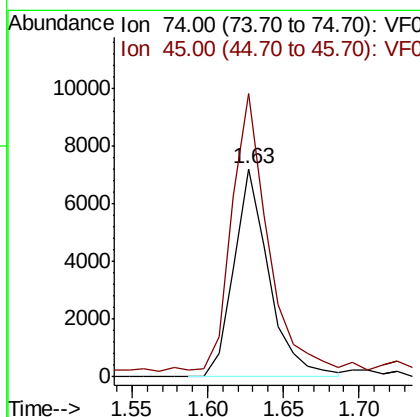
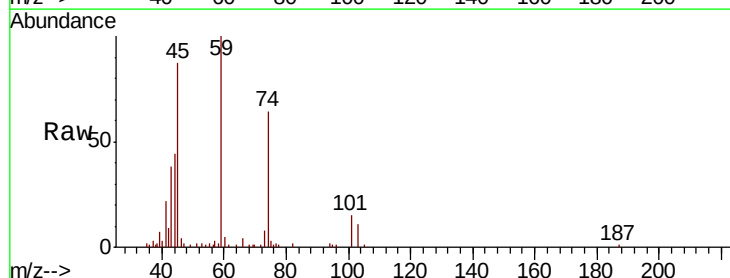
apatel
 12/13/2018 3:41:46 PM

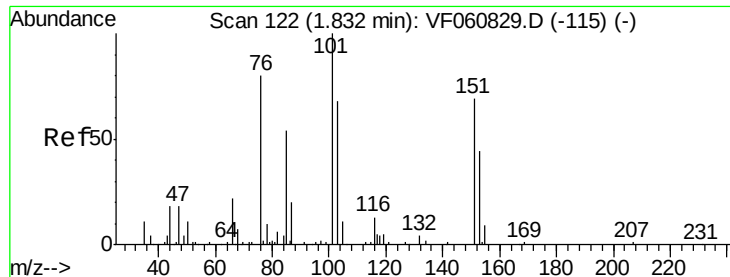


#8

Diethyl Ether
 Concen: 25.376 ug/l
 RT: 1.63 min Scan# 101
 Delta R.T. -0.02 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
74	100		
45	136.0	71.0	212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.775 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

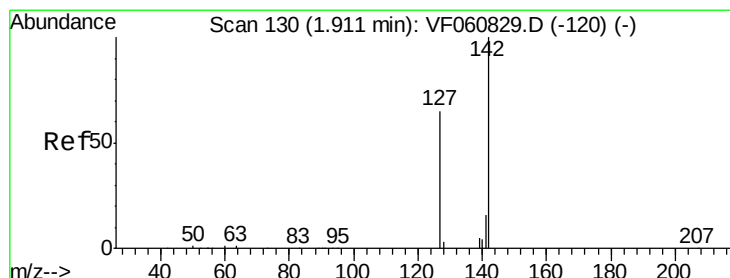
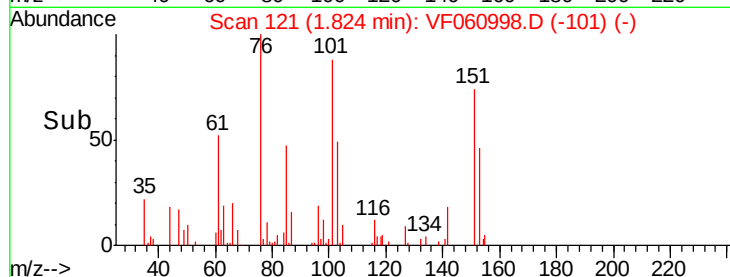
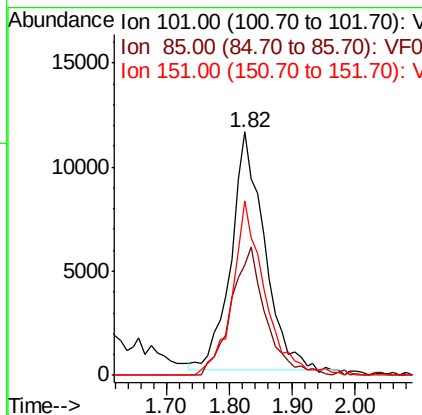
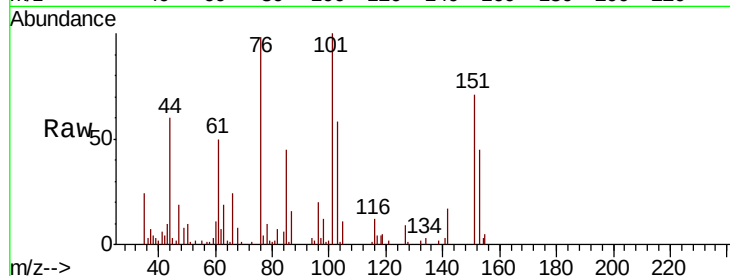
ClientSampleId :

VF1212SBS01

Tot Ion:	101	Resp:	41527
Ion Ratio	Lower	Upper	
101	100		
85	45.2	42.8	64.2
151	71.4	54.4	81.6

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#10

Methyl Iodide

Concen: 27.395 ug/l m

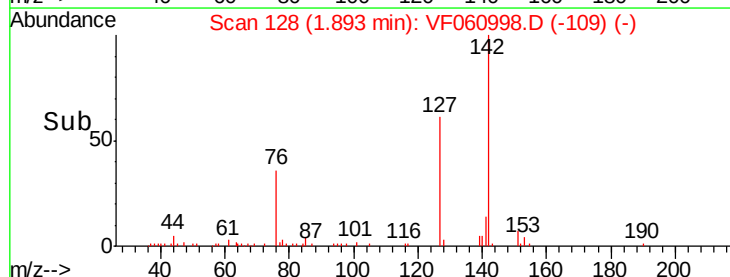
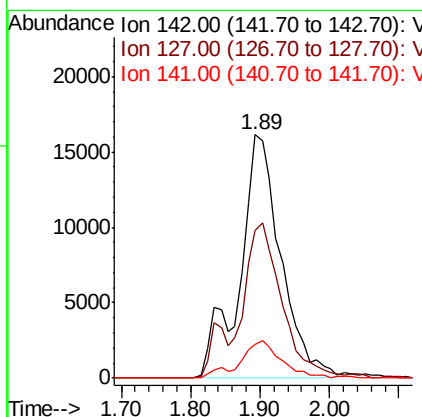
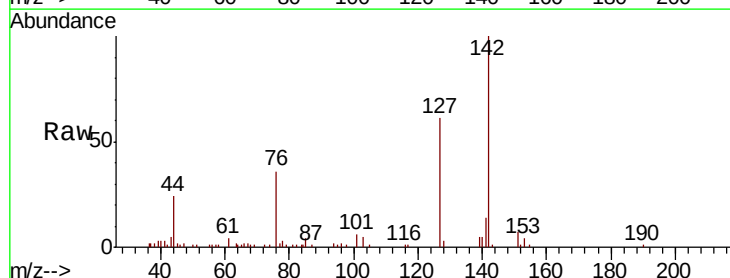
RT: 1.89 min Scan# 128

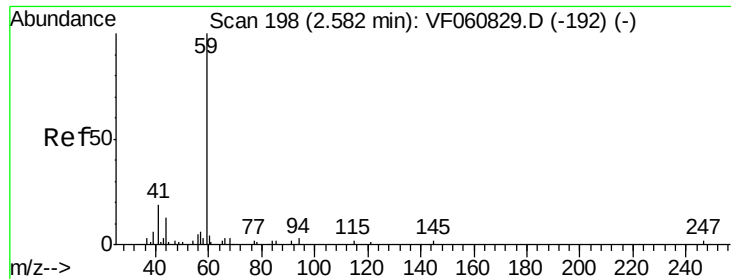
Delta R.T. -0.02 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion:	142	Resp:	67088
Ion Ratio	Lower	Upper	
142	100		
127	60.7	51.9	77.9
141	14.1	12.7	19.1





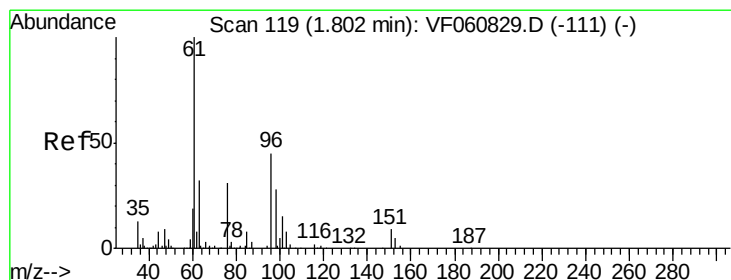
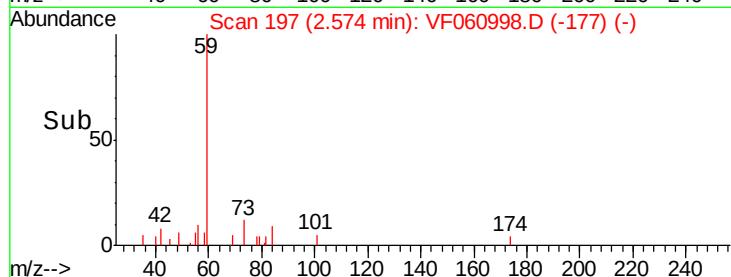
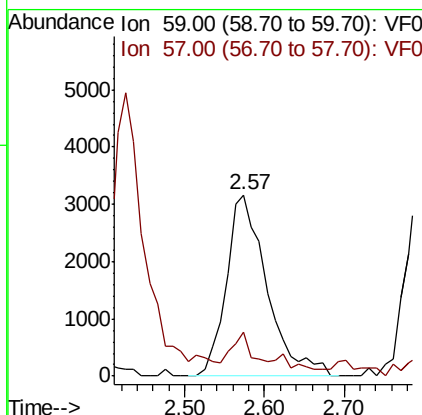
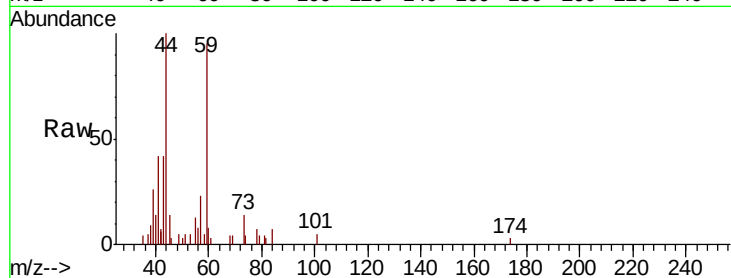
#11
Tert butyl alcohol
Concen: 141.611 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion: 59 Resp: 11192
Ion Ratio Lower Upper
59 100
57 24.3 12.7 19.1#

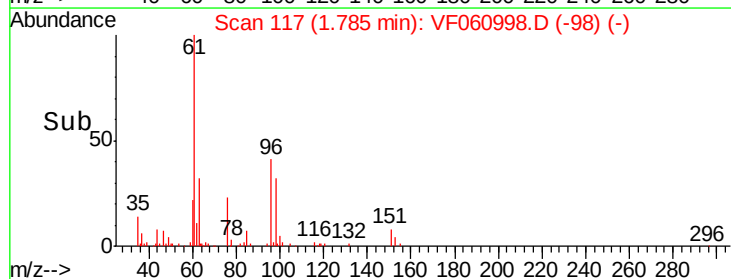
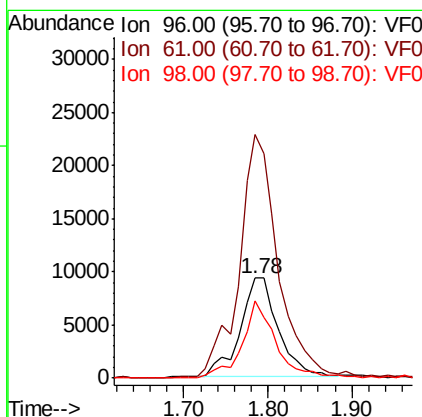
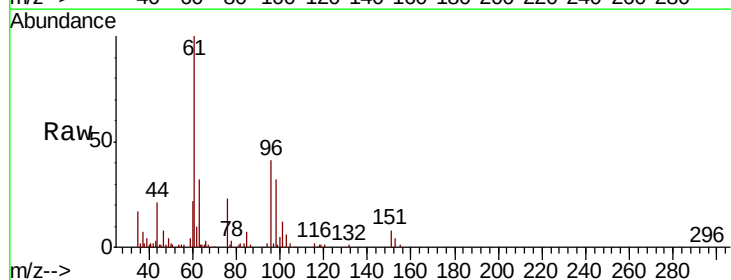
Manual Integrations
APPROVED

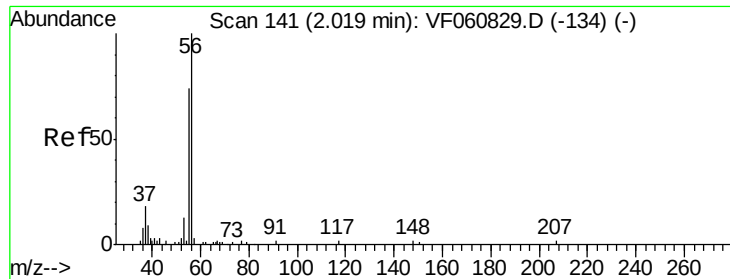
apatel
12/13/2018 3:41:46 PM



#12
1,1-Dichloroethene
Concen: 23.050 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.02 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion: 96 Resp: 29871
Ion Ratio Lower Upper
96 100
61 243.7 177.3 265.9
98 77.0 49.6 74.4#





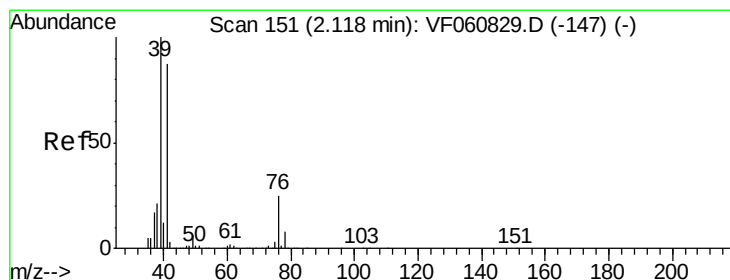
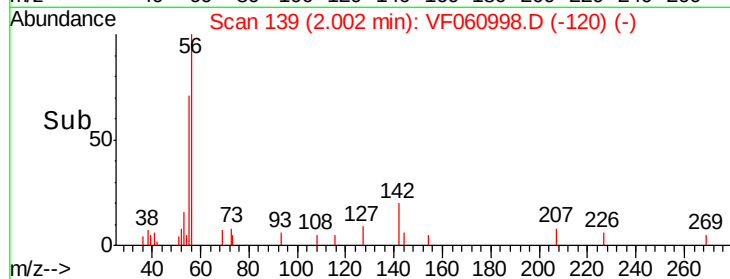
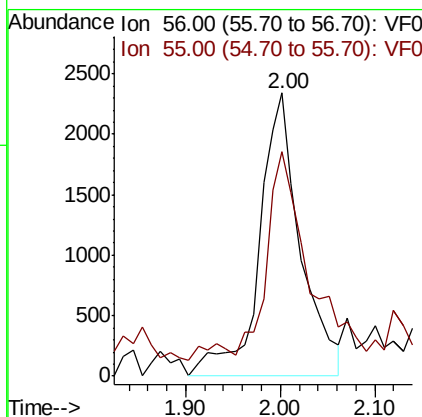
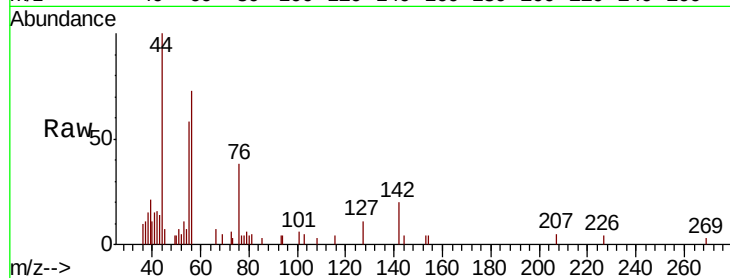
#13
Acrolein
Concen: 94.522 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.02 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion: 56 Resp: 7078
Ion Ratio Lower Upper
56 100
55 79.5 61.2 91.8

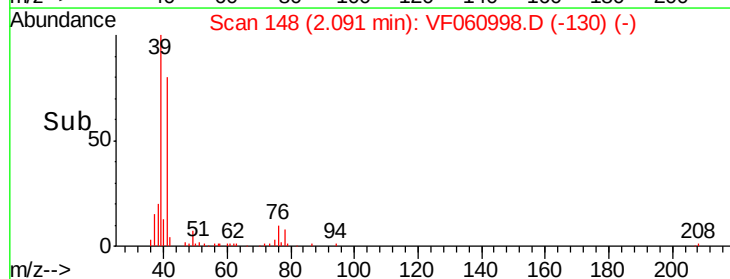
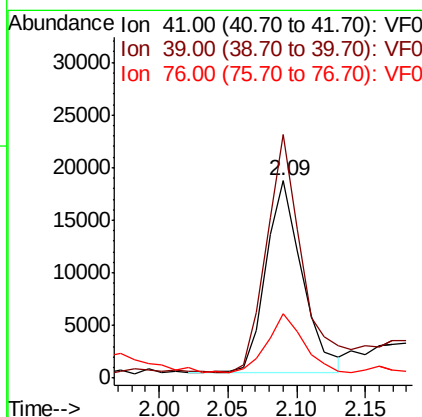
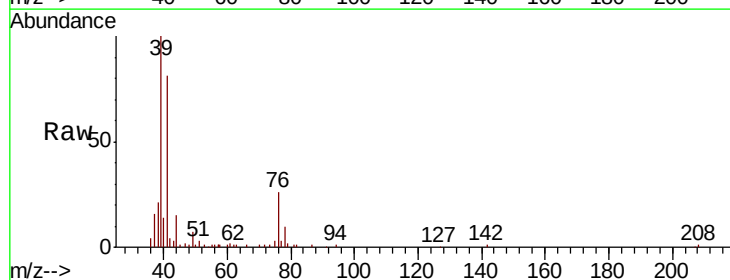
Manual Integrations
APPROVED

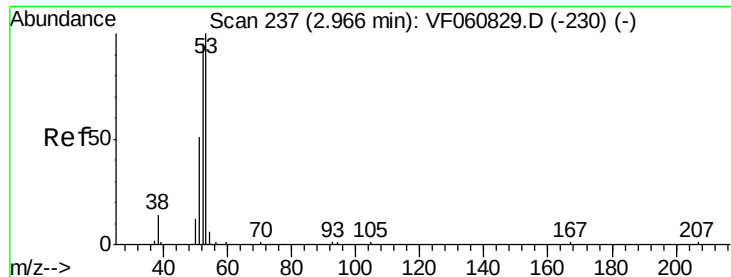
apatel
12/13/2018 3:41:46 PM



#14
Allyl chloride
Concen: 20.765 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.03 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion: 41 Resp: 33540
Ion Ratio Lower Upper
41 100
39 123.6 91.7 137.5
76 32.6 23.5 35.3





#15

Acrylonitrile

Concen: 142.697 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

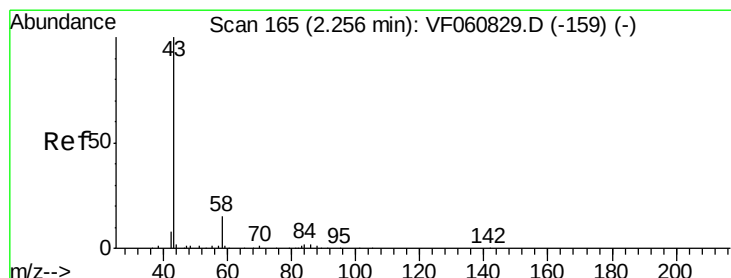
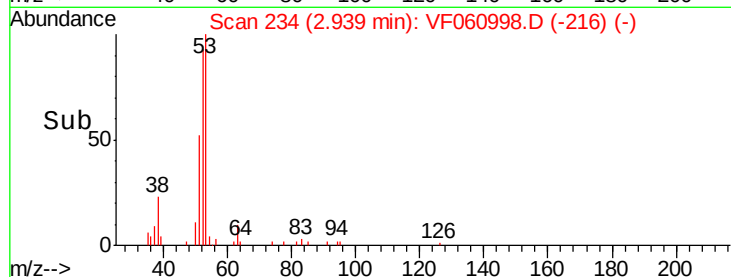
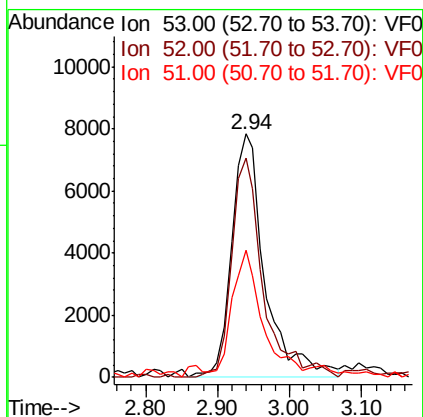
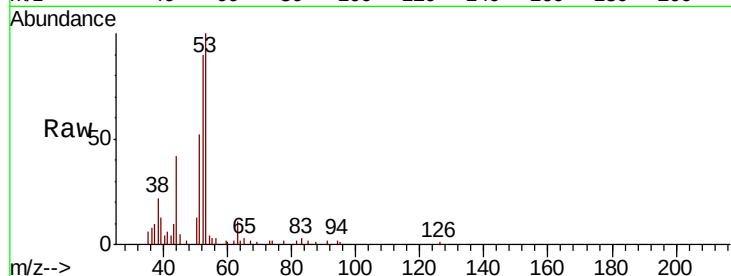
ClientSampleId :

VF1212SBS01

Tot Ion:	53	Resp:	25284
Ion	Ratio	Lower	Upper
53	100		
52	90.3	76.5	114.7
51	52.4	40.7	61.1

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#16

Acetone

Concen: 140.009 ug/l

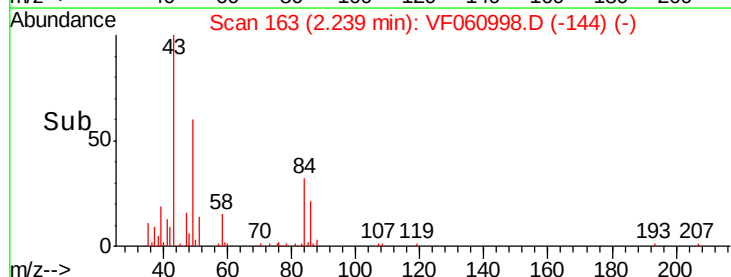
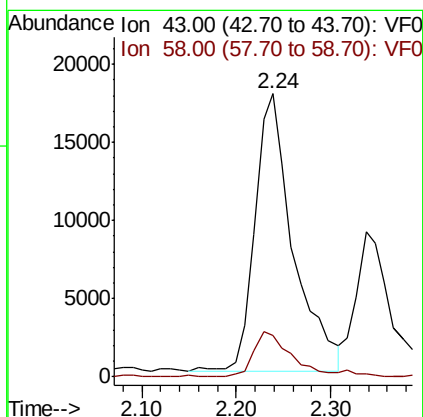
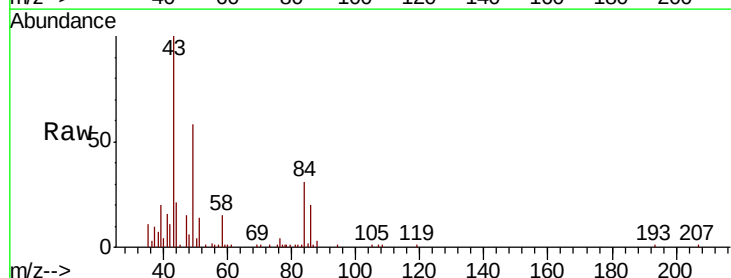
RT: 2.24 min Scan# 163

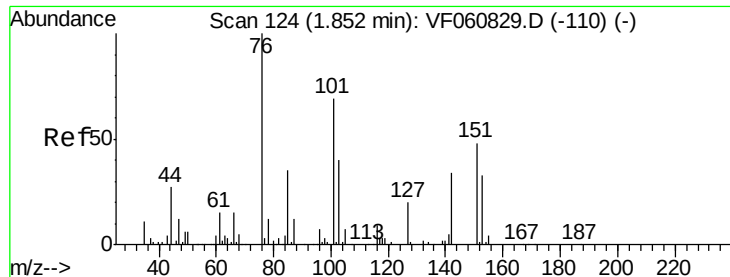
Delta R.T. -0.02 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion:	43	Resp:	49778
Ion	Ratio	Lower	Upper
43	100		
58	14.5	11.4	17.2





#17

Carbon Disulfide

Concen: 25.557 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.02 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tot Ion: 76 Resp: 88802

Ion Ratio Lower Upper

76 100

78 13.4 10.2 15.2

Instrument :

MSVOA_F

ClientSampleId :

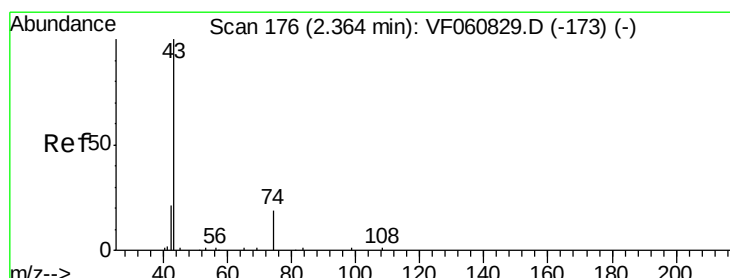
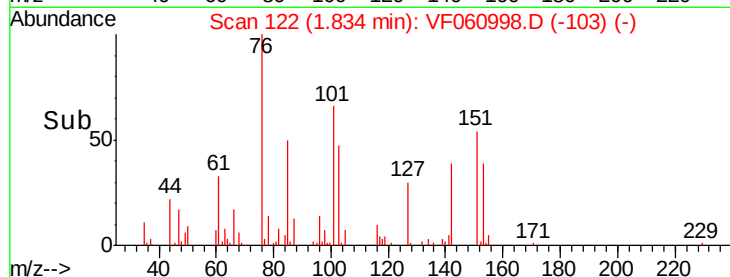
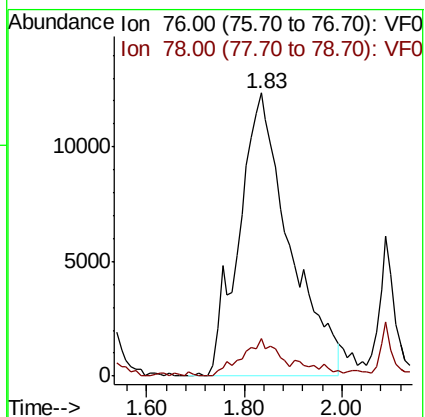
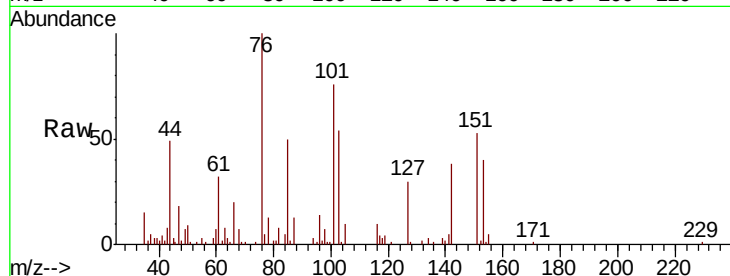
VF1212SBS01

Manual Integrations

APPROVED

apatel

12/13/2018 3:41:46 PM



#18

Methyl Acetate

Concen: 31.132 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.03 min

Lab File: VF060998.D

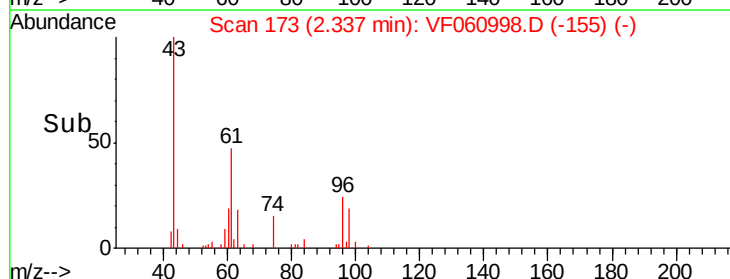
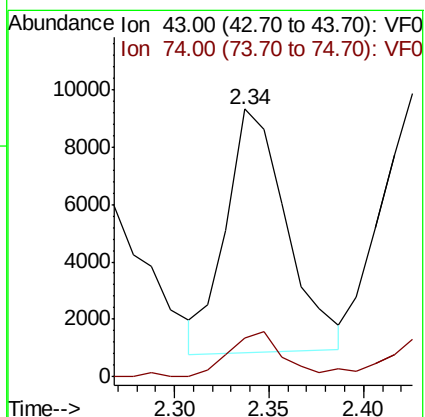
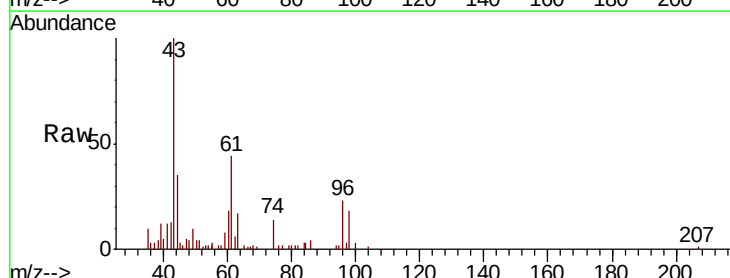
Acq: 12 Dec 2018 16:21

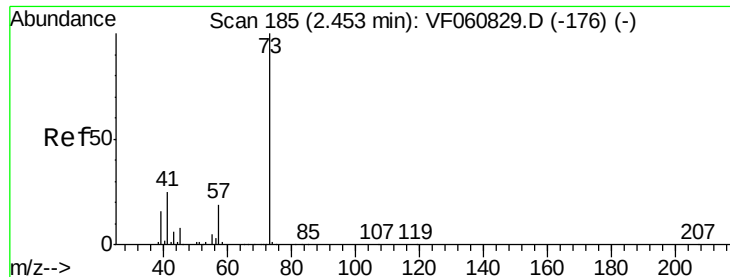
Tgt Ion: 43 Resp: 18941

Ion Ratio Lower Upper

43 100

74 14.3 13.3 19.9





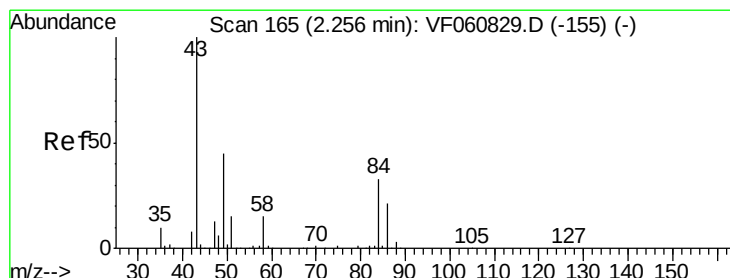
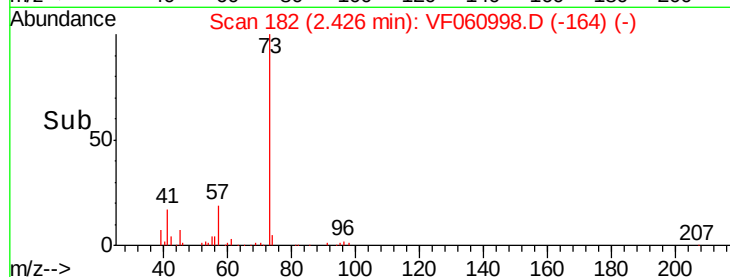
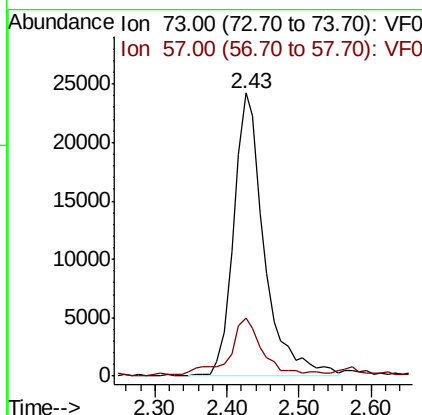
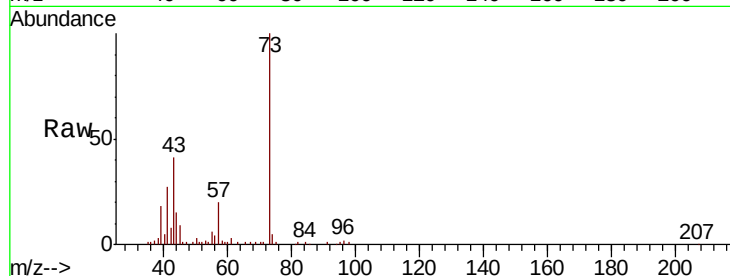
#19
Methyl tert-butyl Ether
Concen: 24.510 ug/l
RT: 2.43 min Scan# 182
Delta R.T. -0.03 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion: 73 Resp: 71538
Ion Ratio Lower Upper
73 100
57 20.4 15.3 22.9

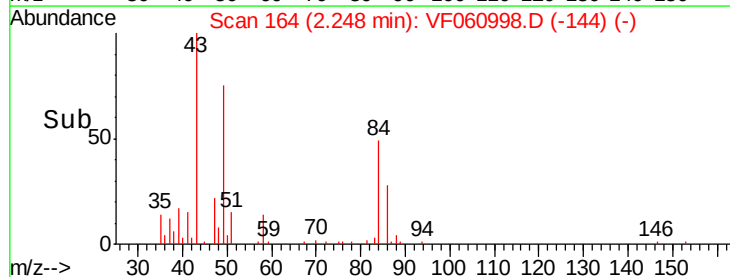
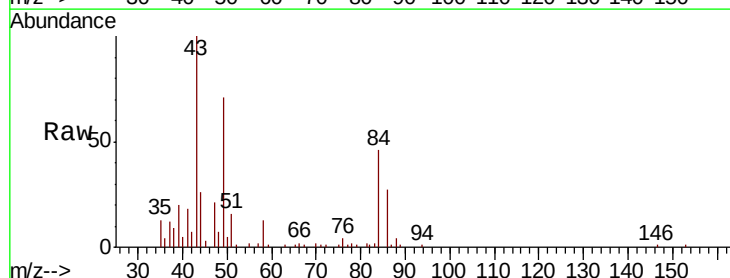
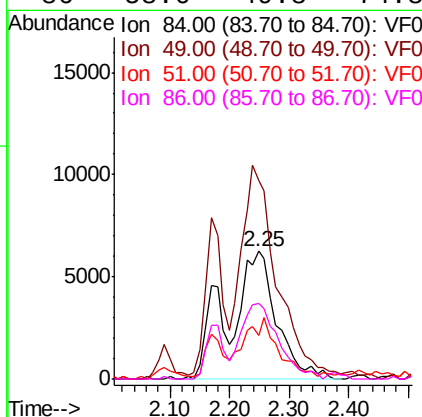
Manual Integrations
APPROVED

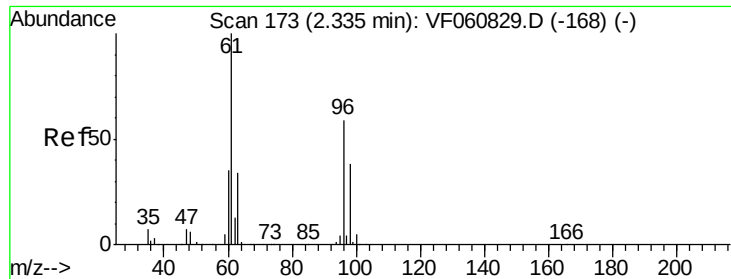
apatel
12/13/2018 3:41:46 PM



#20
Methylene Chloride
Concen: 26.971 ug/l m
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion: 84 Resp: 35178
Ion Ratio Lower Upper
84 100
49 154.6 111.3 166.9
51 34.1 38.0 57.0#
86 58.6 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 19.509 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

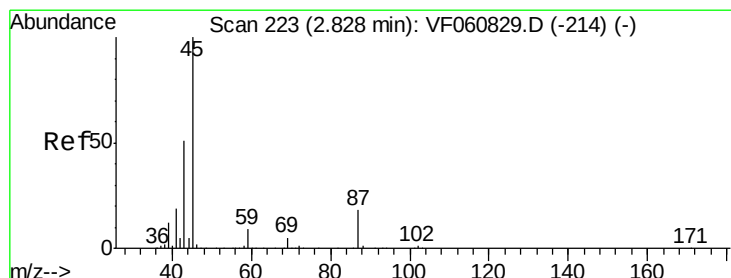
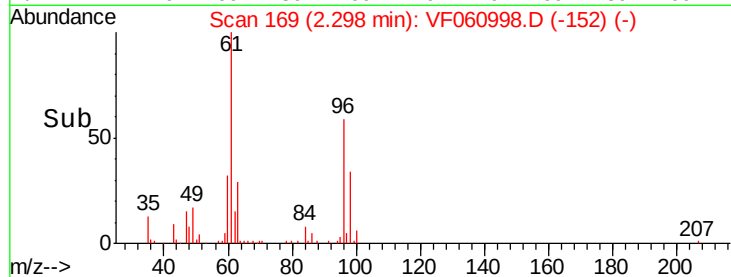
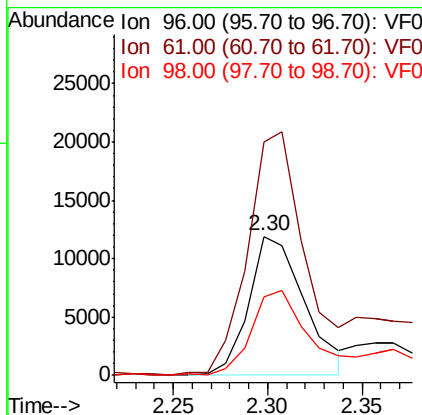
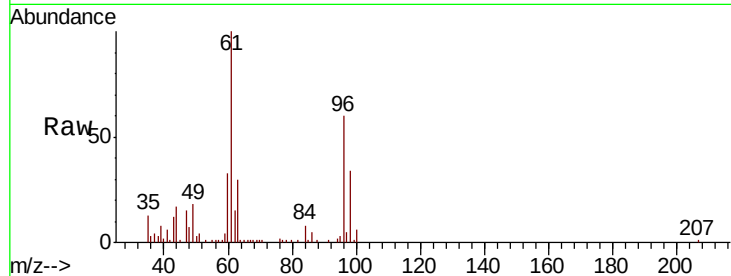
ClientSampleId :

VF1212SBS01

Tot Ion:	96	Resp:	24373
Ion	Ratio	Lower	Upper
96	100		
61	167.9	134.5	201.7
98	56.8	51.6	77.4

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#22

Diisopropyl ether

Concen: 25.124 ug/l

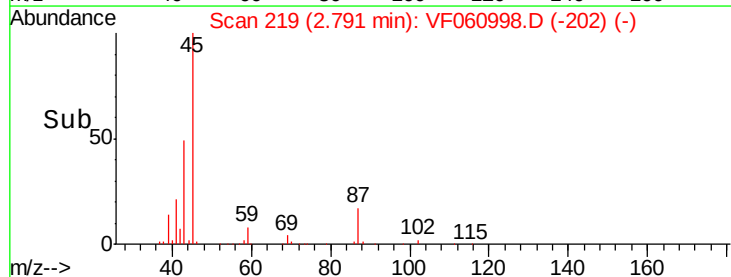
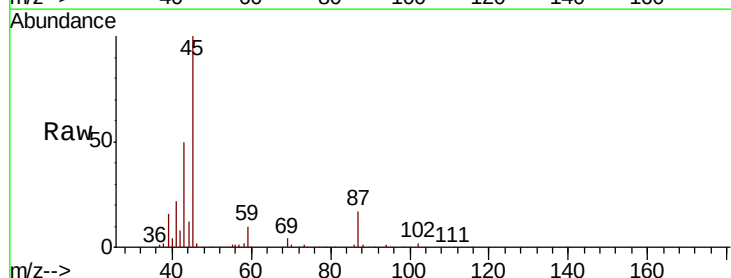
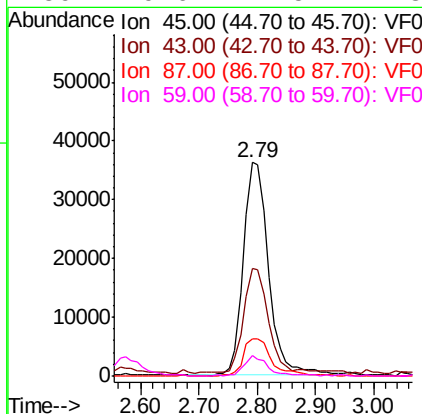
RT: 2.79 min Scan# 219

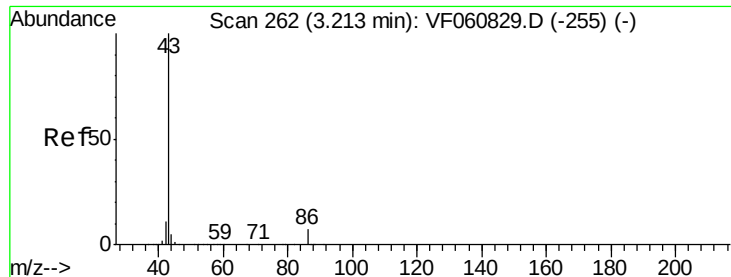
Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion:	45	Resp:	110458
Ion	Ratio	Lower	Upper
45	100		
43	50.4	41.0	61.6
87	17.4	14.6	22.0
59	9.6	7.5	11.3





#23

Vinyl Acetate

Concen: 139.908 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion: 43 Resp: 281178

Ion Ratio Lower Upper

43 100

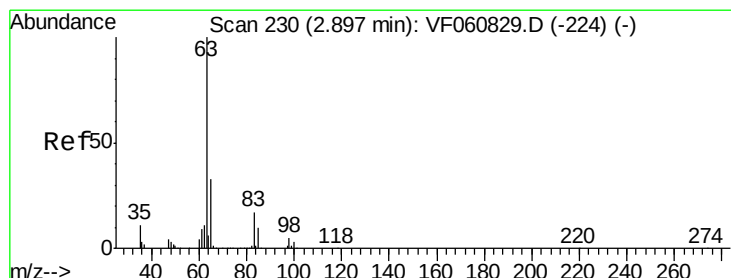
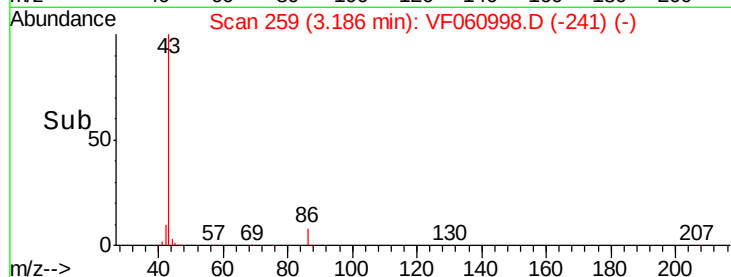
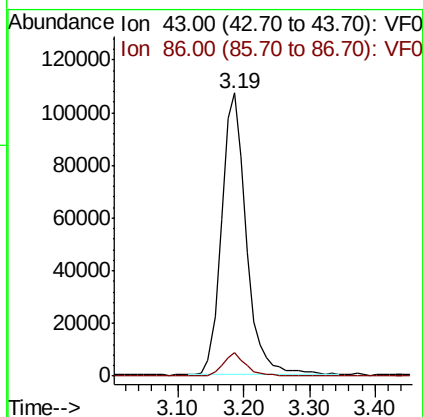
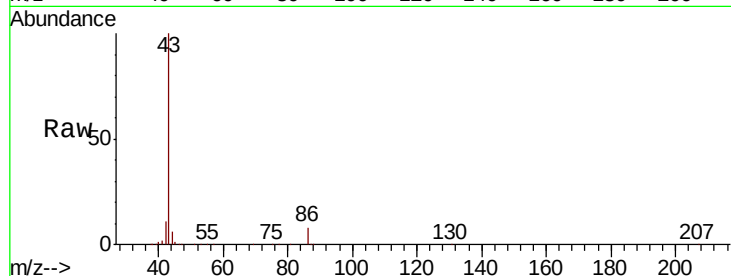
86 8.2 5.4 8.0#

Manual Integrations

APPROVED

apatel

12/13/2018 3:41:46 PM



#24

1,1-Dichloroethane

Concen: 24.662 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

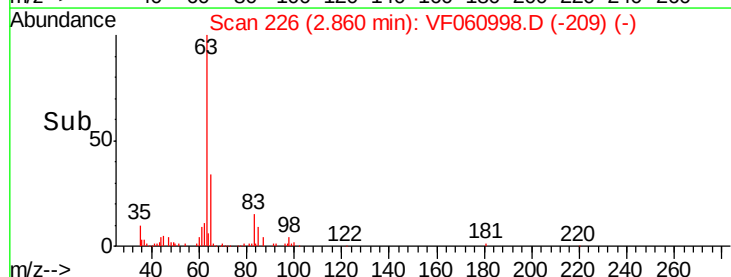
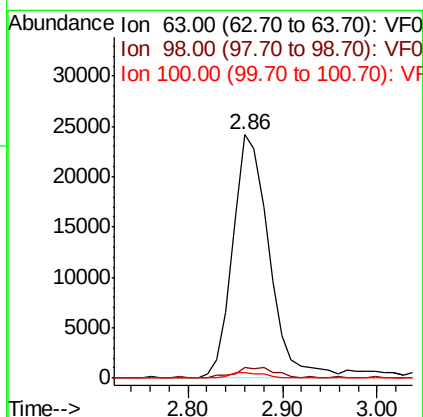
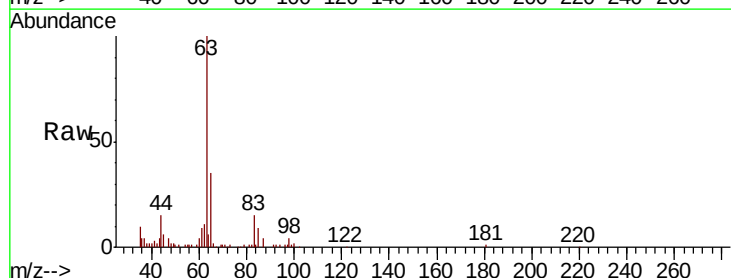
Tgt Ion: 63 Resp: 64511

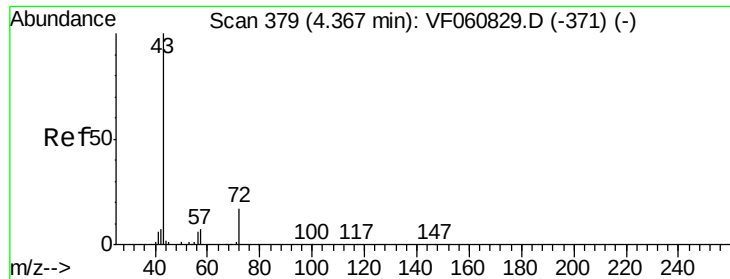
Ion Ratio Lower Upper

63 100

98 4.4 2.7 8.1

100 2.3 1.5 4.5





#25

2-Butanone

Concen: 119.648 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion: 43 Resp: 73578

Ion Ratio Lower Upper

43 100

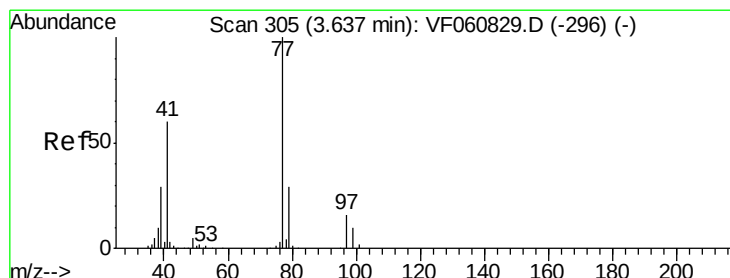
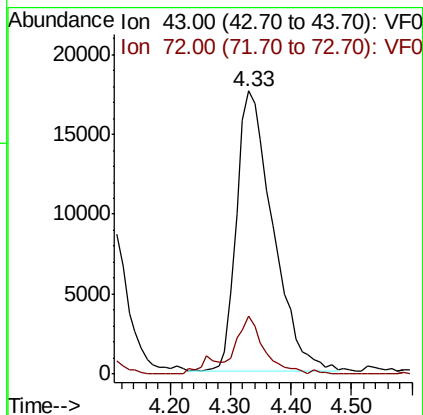
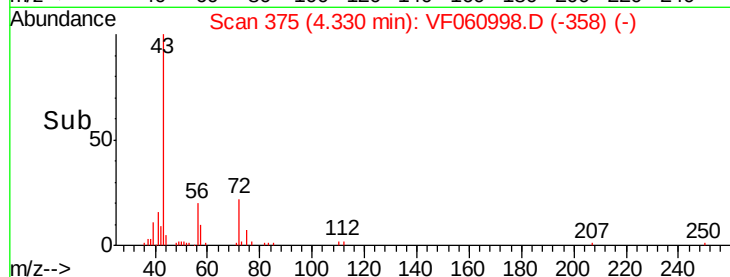
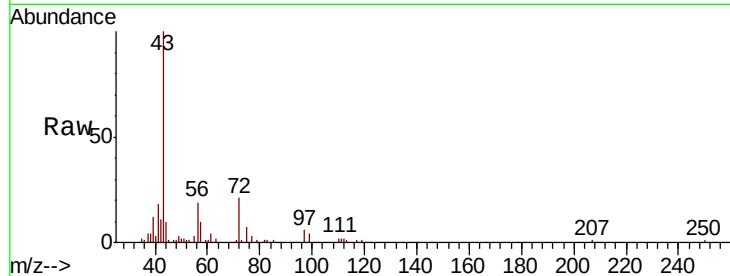
72 20.7 15.4 23.2

Manual Integrations

APPROVED

apatel

12/13/2018 3:41:46 PM



#26

2,2-Dichloropropane

Concen: 25.658 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.05 min

Lab File: VF060998.D

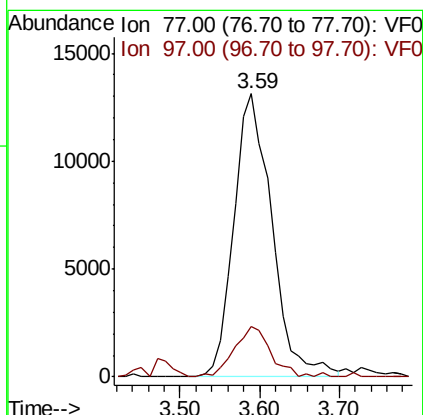
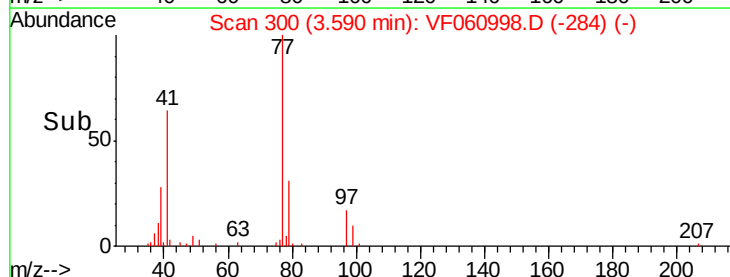
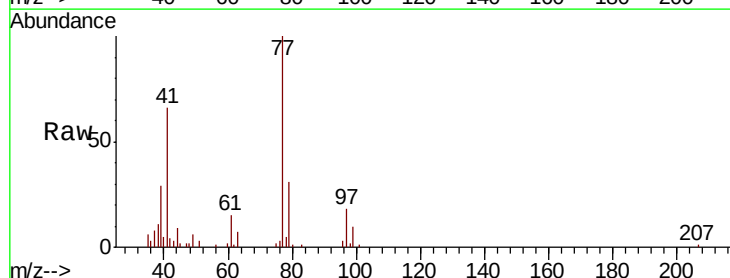
Acq: 12 Dec 2018 16:21

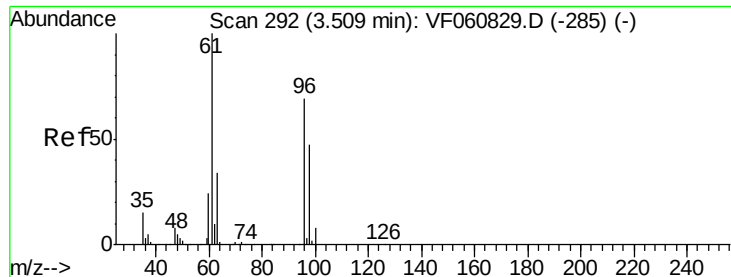
Tgt Ion: 77 Resp: 43513

Ion Ratio Lower Upper

77 100

97 17.9 8.6 25.8





#27

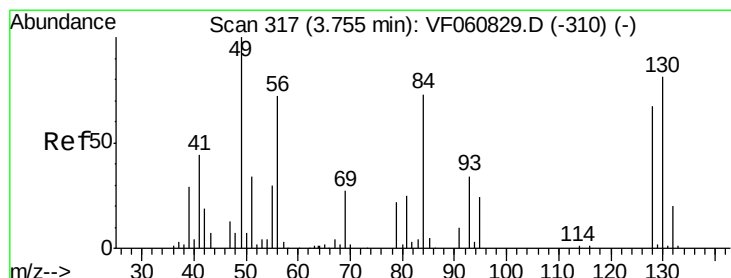
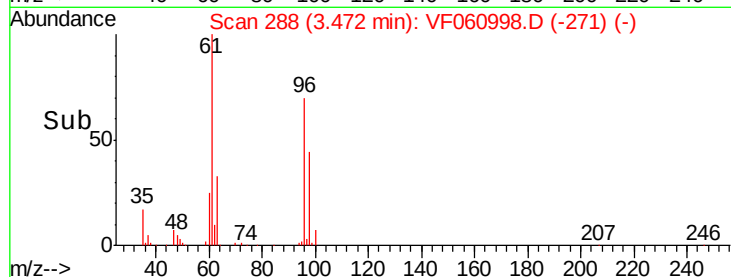
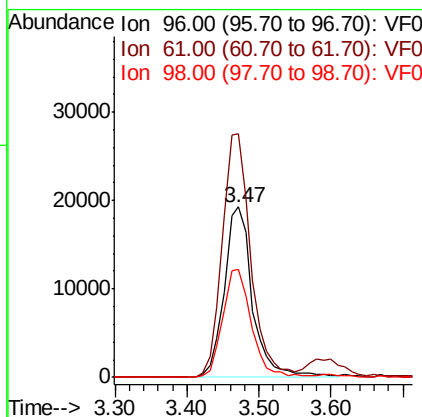
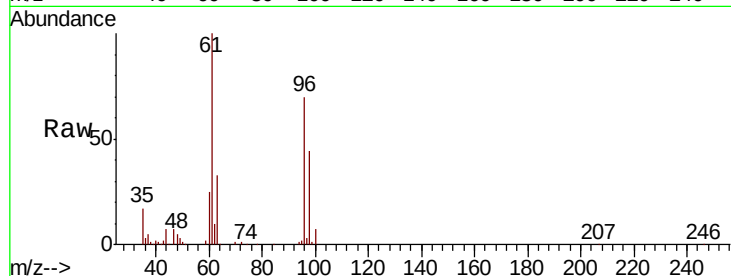
cis-1,2-Dichloroethene
Concen: 25.930 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.0	0.0	290.6
98	63.4	0.0	137.8

Manual Integrations
APPROVED

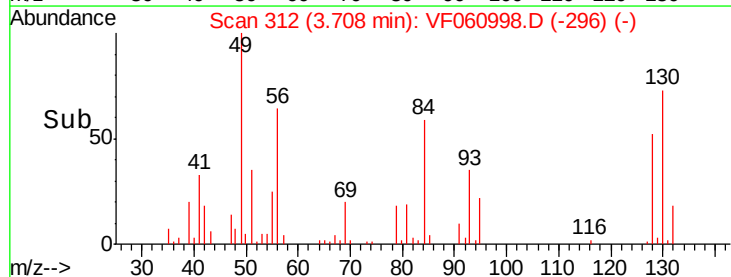
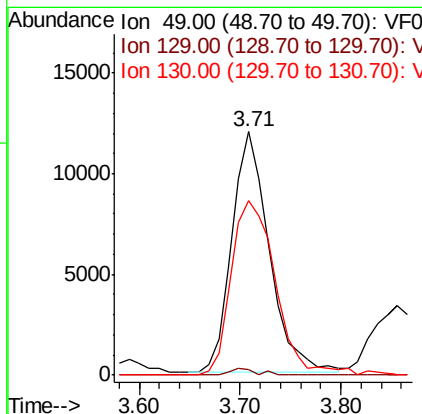
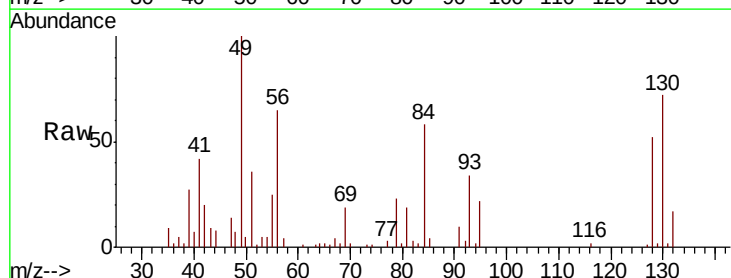
apatel
12/13/2018 3:41:46 PM

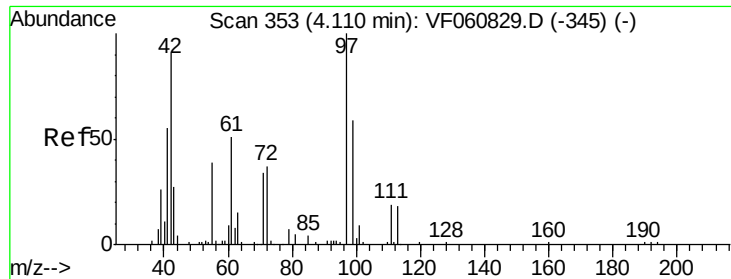


#28

Bromochloromethane
Concen: 24.686 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.05 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.4
130	71.6	64.2	96.4





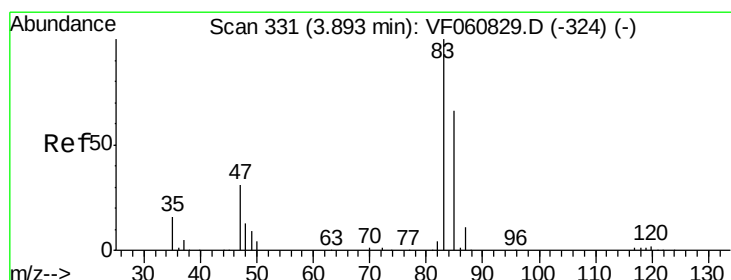
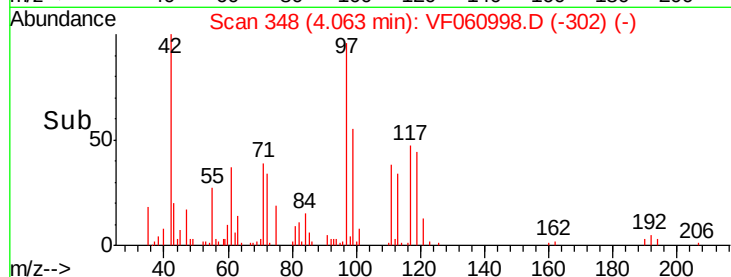
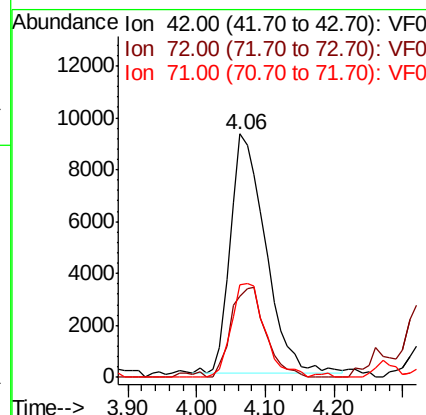
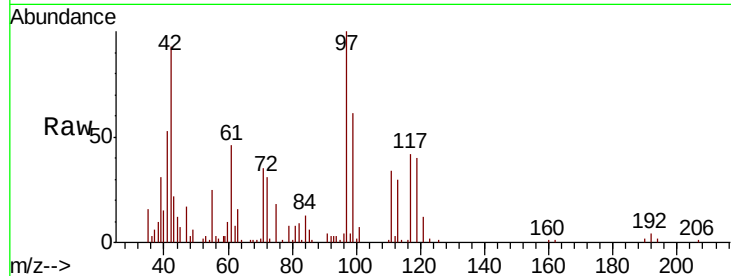
#29
Tetrahydrofuran
Concen: 126.191 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.05 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.5	31.9	47.9
71	36.9	28.7	43.1

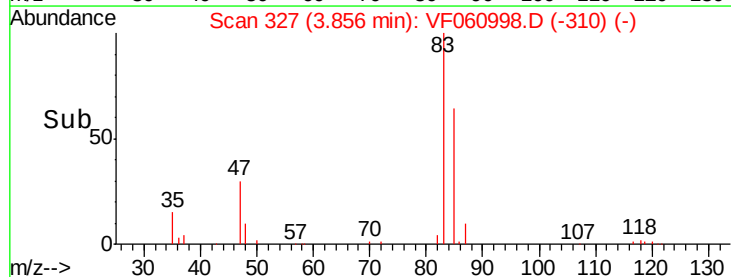
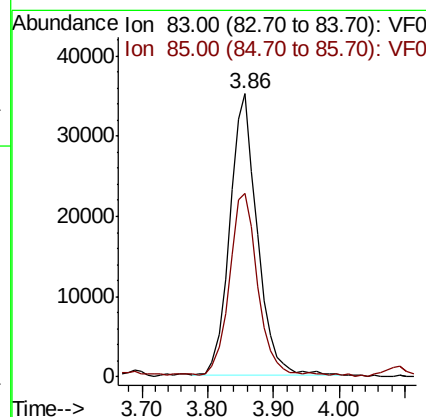
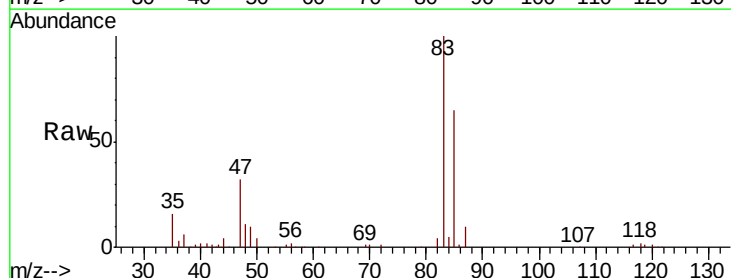
Manual Integrations
APPROVED

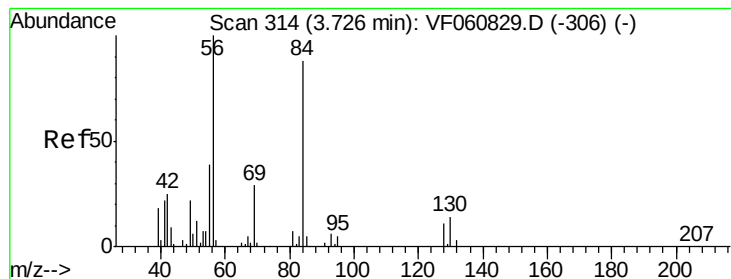
apatel
12/13/2018 3:41:46 PM



#30
Chloroform
Concen: 25.569 ug/l
RT: 3.86 min Scan# 327
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	53.4	80.2





#31

Cyclohexane

Concen: 25.976 ug/l m

RT: 3.68 min Scan# 309

Delta R.T. -0.05 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

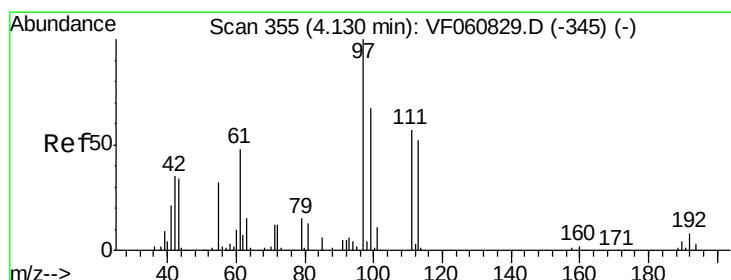
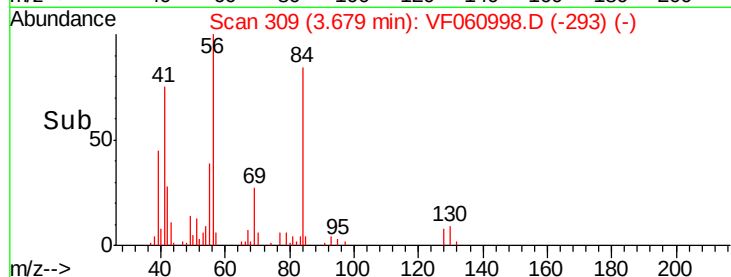
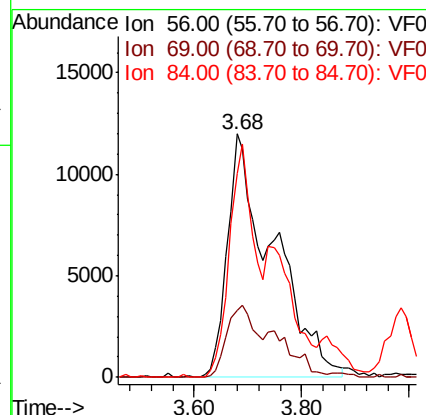
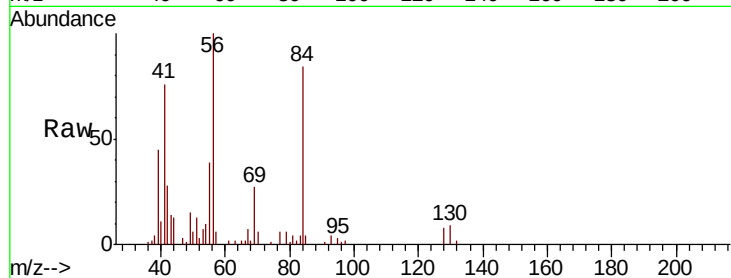
ClientSampleId :

VF1212SBS01

Tot Ion:	56	Resp:	70518
Ion Ratio	Lower	Upper	
56	100		
69	27.3	23.0	34.4
84	83.9	70.4	105.6

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#32

1,1,1-Trichloroethane

Concen: 23.161 ug/l

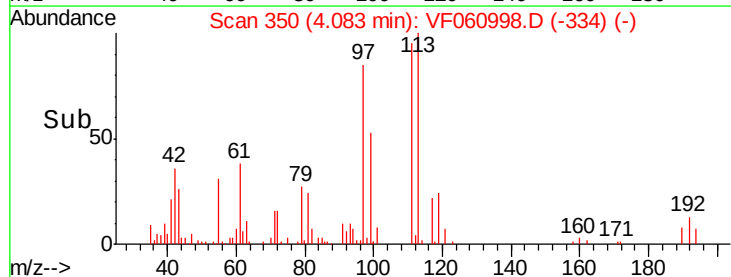
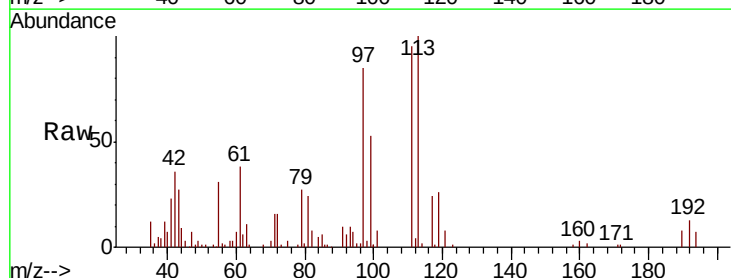
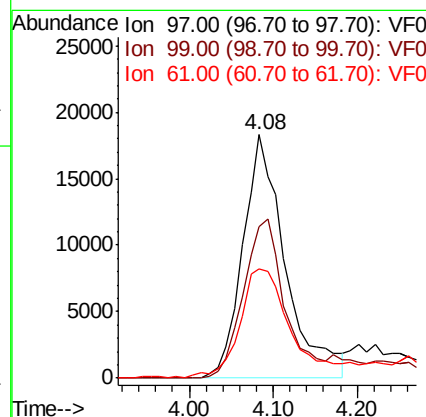
RT: 4.08 min Scan# 350

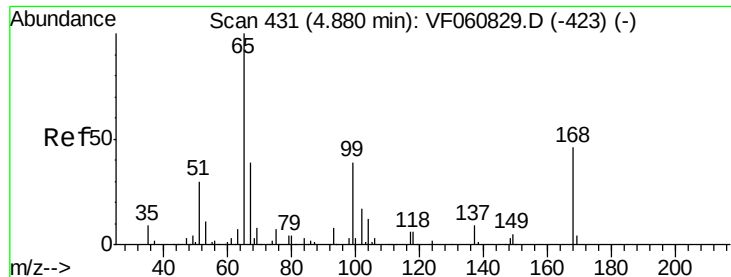
Delta R.T. -0.05 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion:	97	Resp:	64666
Ion Ratio	Lower	Upper	
97	100		
99	62.4	53.5	80.3
61	44.8	38.6	58.0





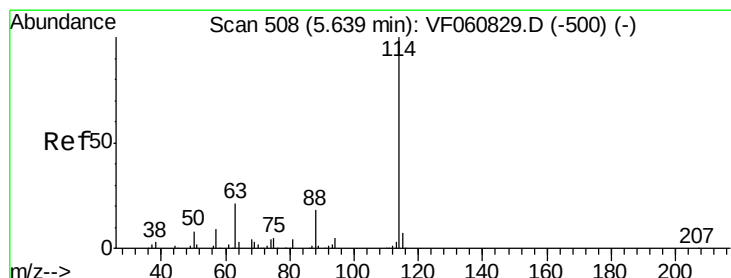
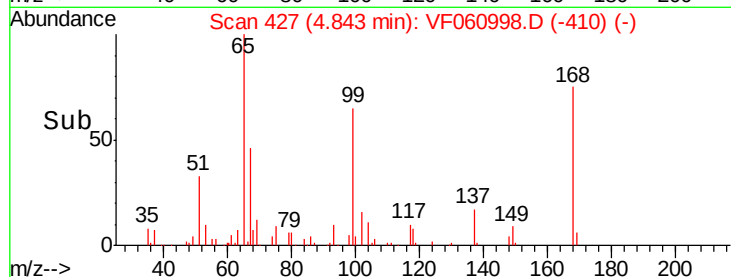
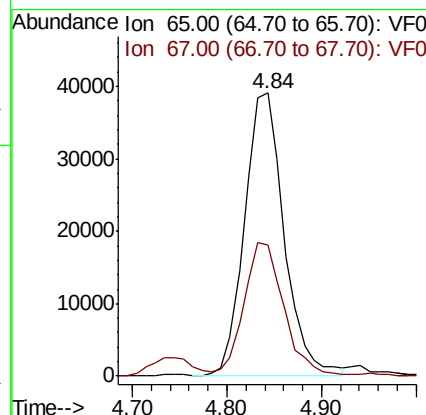
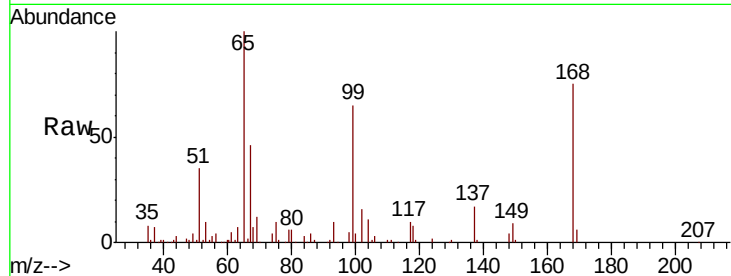
#33
 1,2-Dichloroethane-d4
 Concen: 59.123 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	113990		
67	46.2	0.0	96.4	

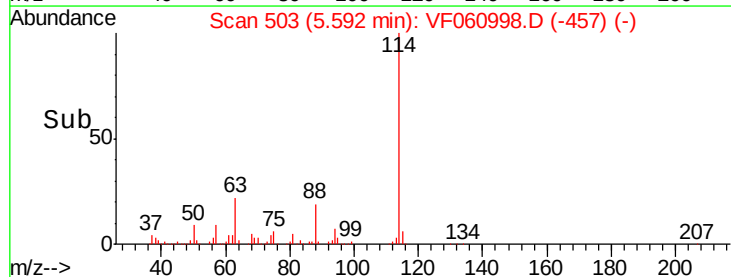
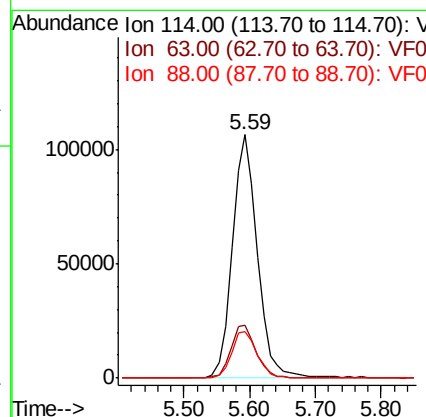
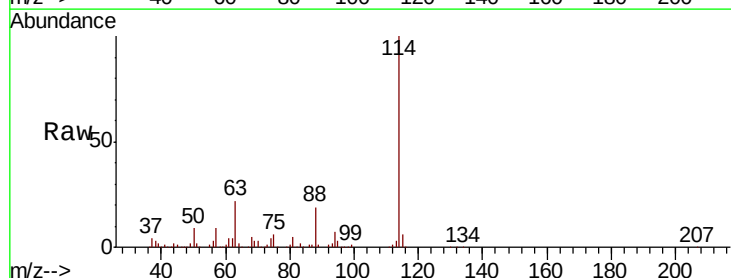
Manual Integrations
 APPROVED

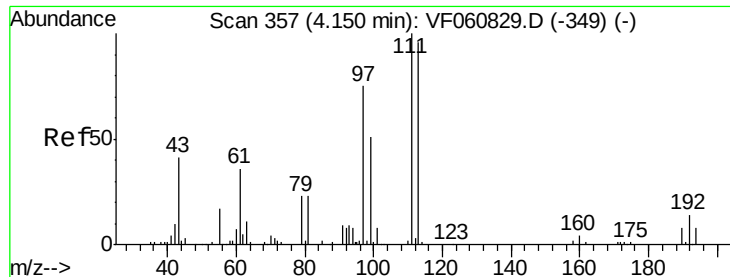
apatel
 12/13/2018 3:41:46 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.05 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	283267		
63	21.8	0.0	41.6	
88	18.9	0.0	36.6	





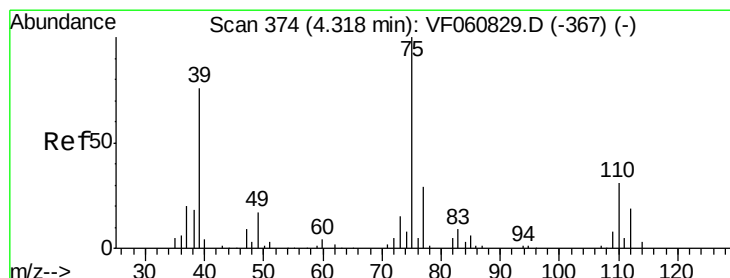
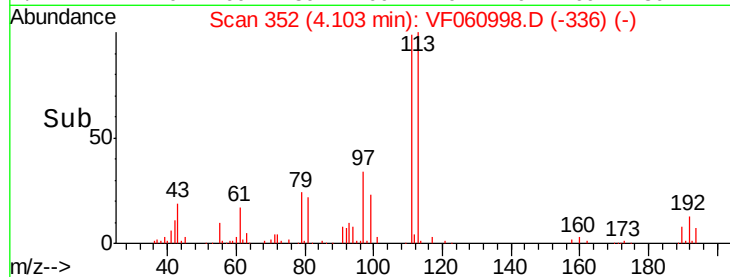
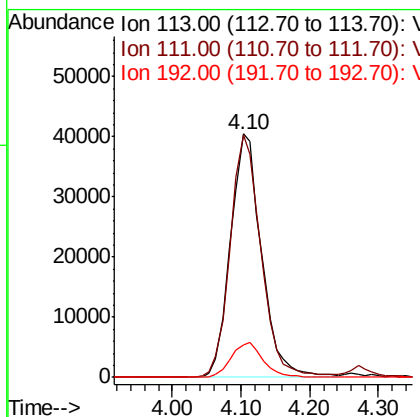
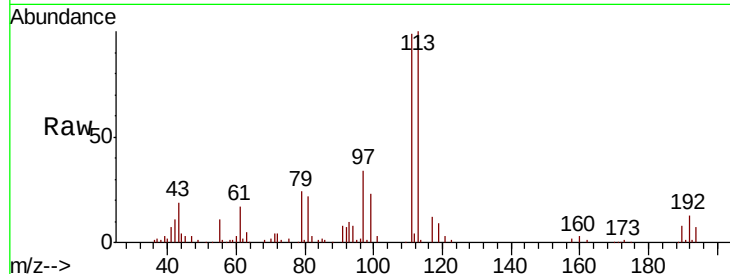
#35
Dibromofluoromethane
Concen: 56.564 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.05 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	127112		
111	99.4	83.0	124.6	
192	13.9	12.3	18.5	

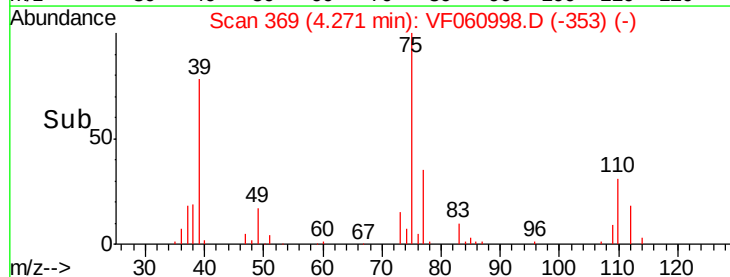
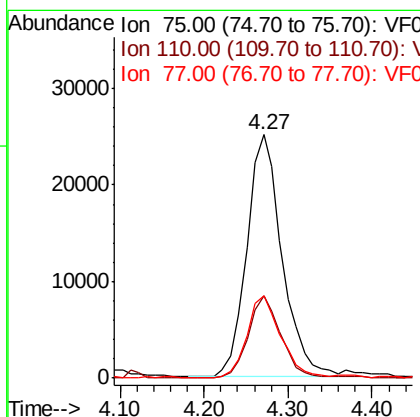
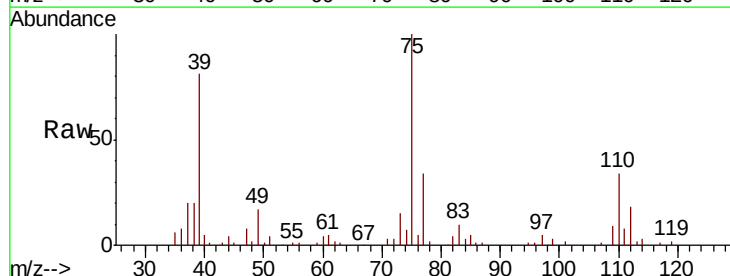
Manual Integrations
APPROVED

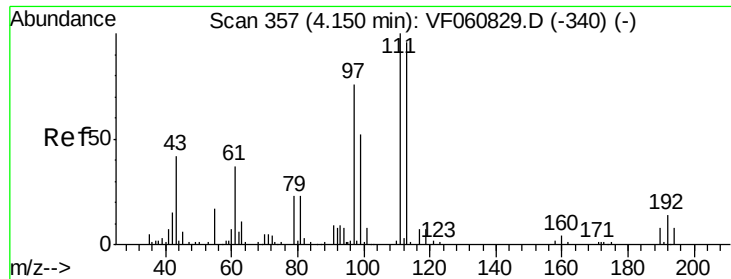
apatel
12/13/2018 3:41:46 PM



#36
1,1-Dichloropropene
Concen: 23.424 ug/l
RT: 4.27 min Scan# 369
Delta R.T. -0.05 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	73597		
110	33.7	15.6	46.8	
77	34.0	23.4	35.0	





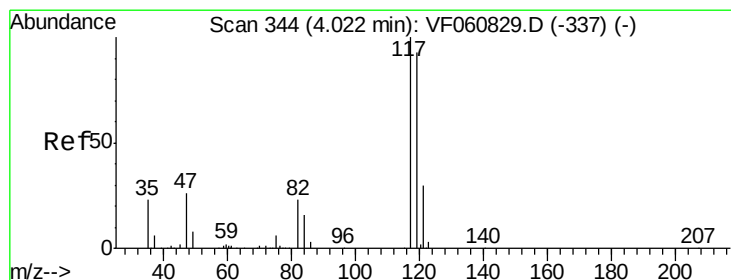
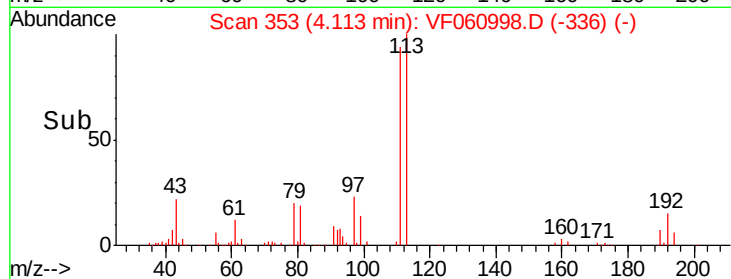
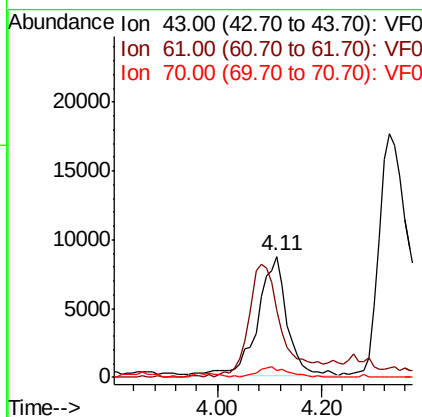
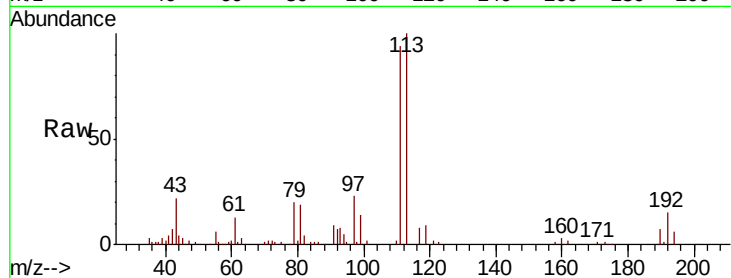
#37
Ethyl Acetate
Concen: 25.887 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	55.9	68.6	103.0#	
70	5.4	9.0	13.4#	

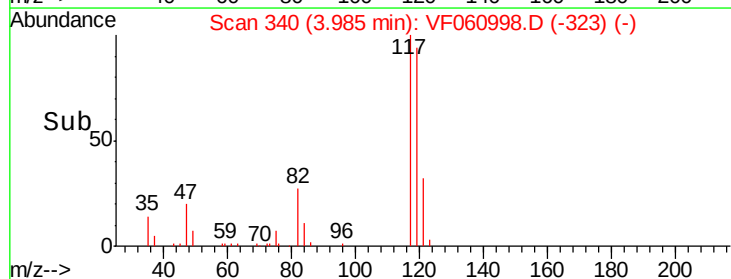
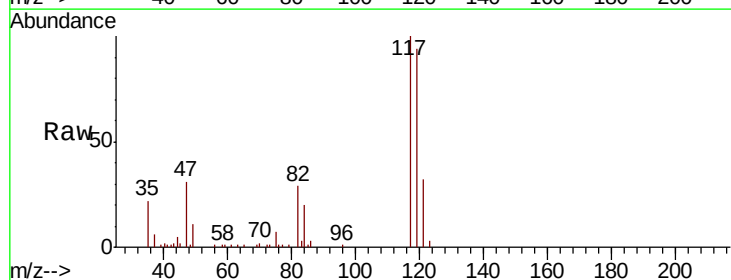
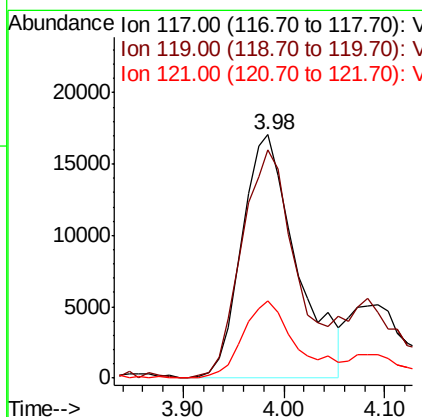
Manual Integrations
APPROVED

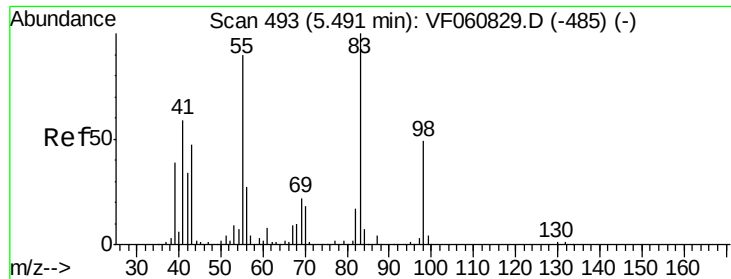
apatel
12/13/2018 3:41:46 PM



#38
Carbon Tetrachloride
Concen: 23.341 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	93.7	74.4	111.6	
121	31.8	23.5	35.3	





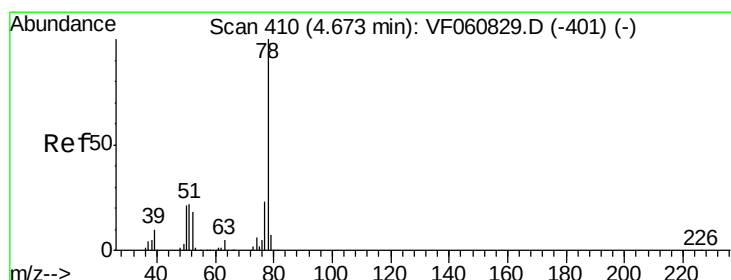
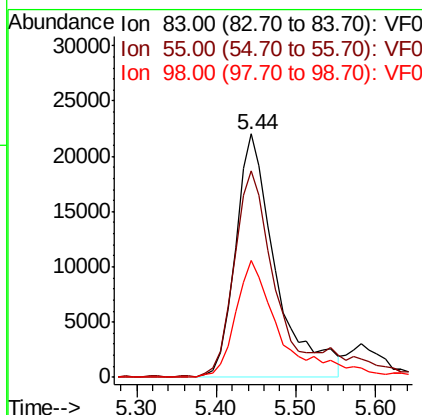
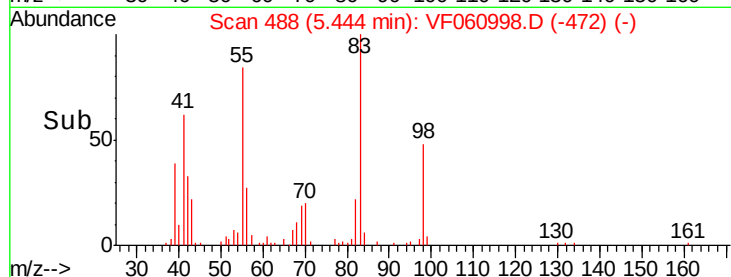
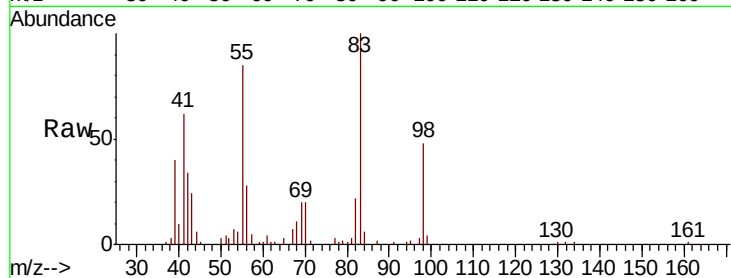
#39
Methylvlcyclohexane
Concen: 23.434 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.05 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.6	72.1	108.1
98	48.2	39.1	58.7

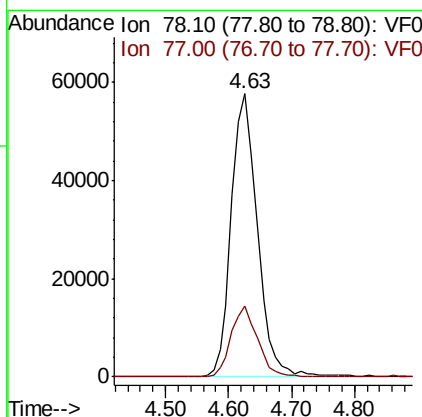
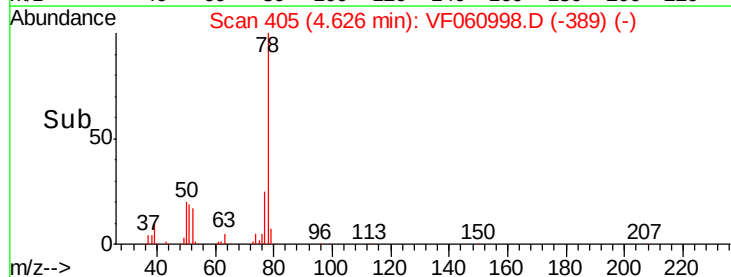
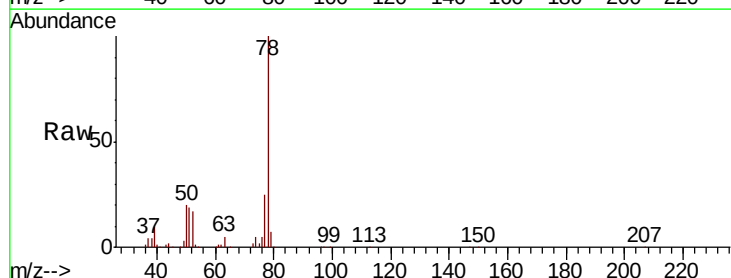
Manual Integrations
APPROVED

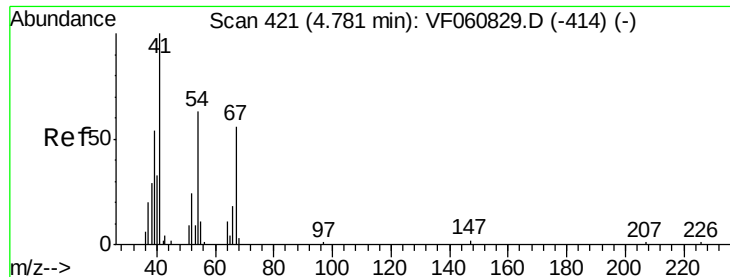
apatel
12/13/2018 3:41:46 PM



#40
Benzene
Concen: 23.842 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.05 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	18.7	28.1





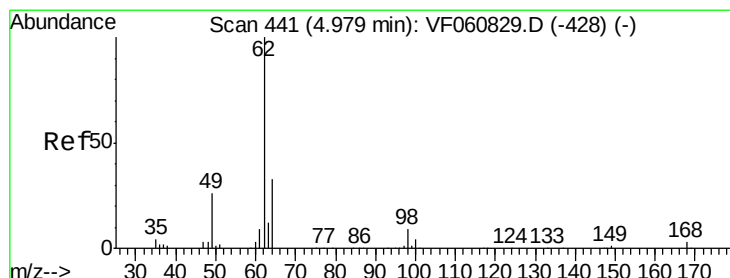
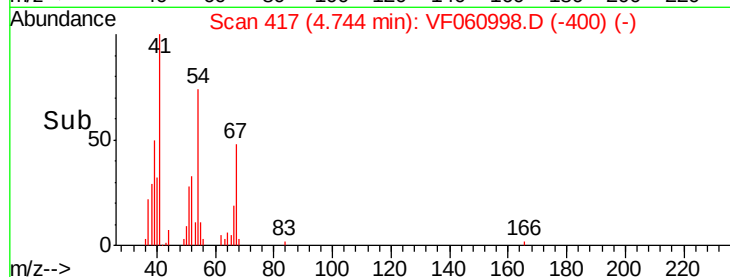
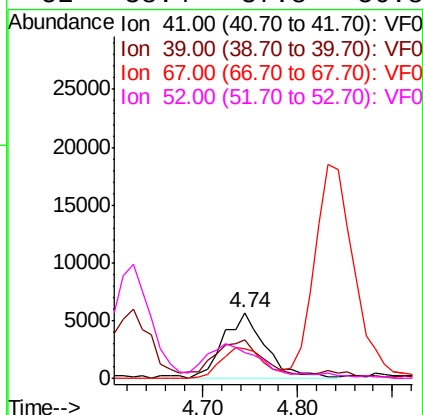
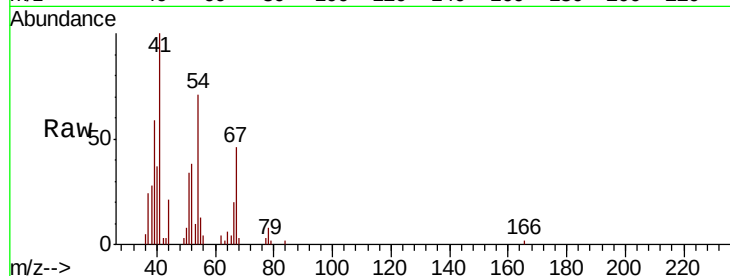
#41
Methacrylonitrile
Concen: 24.628 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion:	41	Resp:	17582
Ion Ratio	Lower	Upper	
41	100		
39	59.1	53.0	79.6
67	45.9	43.8	65.6
52	38.4	37.8	56.8

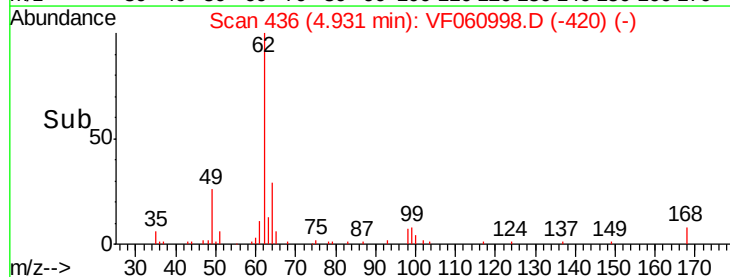
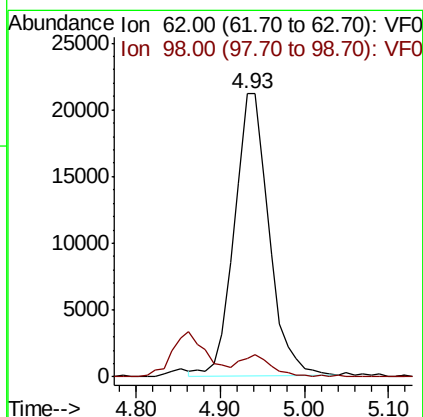
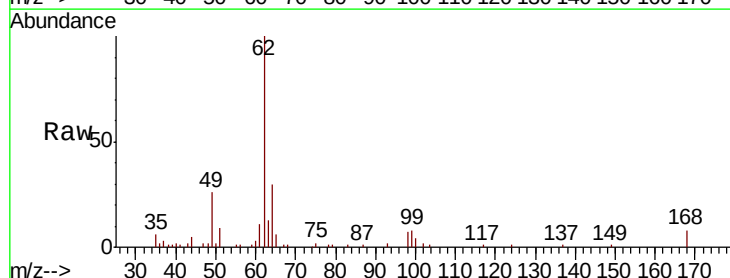
Manual Integrations
APPROVED

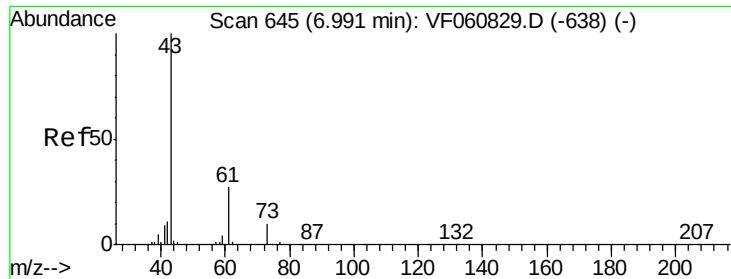
apatel
12/13/2018 3:41:46 PM



#42
1,2-Dichloroethane
Concen: 23.851 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.05 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion:	62	Resp:	60440
Ion Ratio	Lower	Upper	
62	100		
98	6.5	0.0	17.2





#43

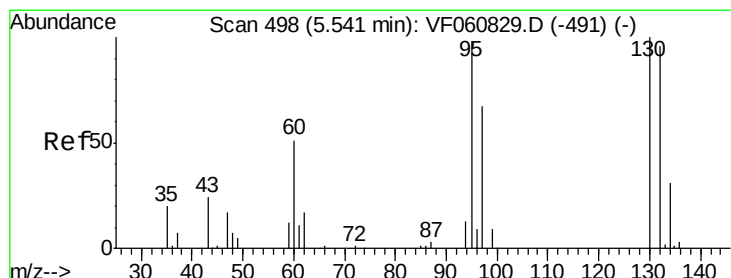
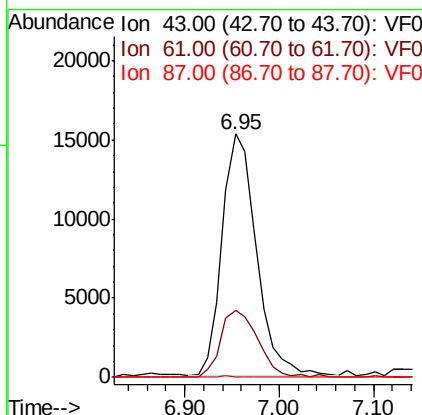
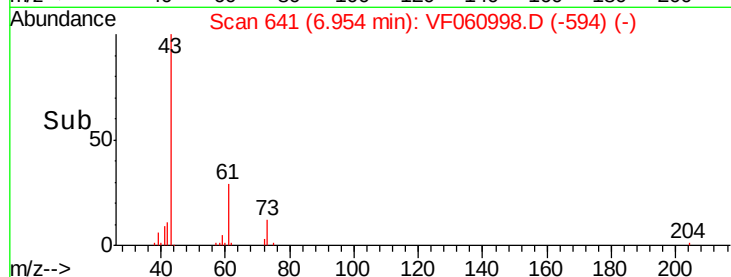
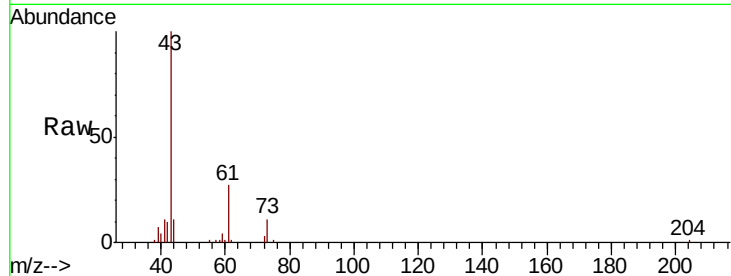
Isopropyl Acetate
 Concen: 22.755 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.04 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.3	21.4	32.0
87	0.0	0.2	0.4

Manual Integrations
 APPROVED

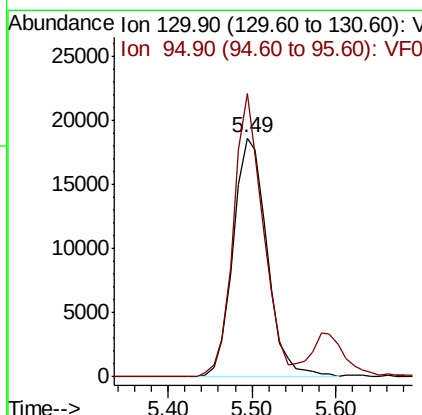
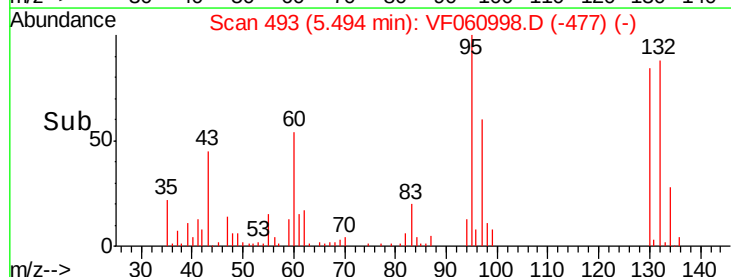
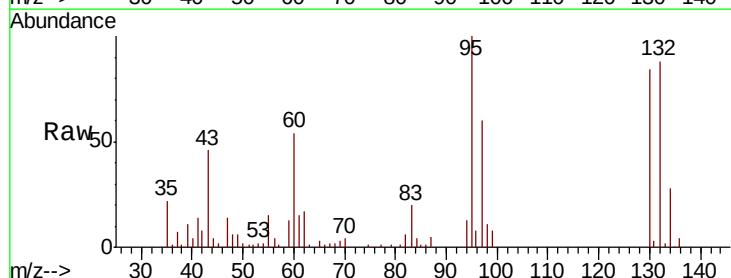
apatel
 12/13/2018 3:41:46 PM

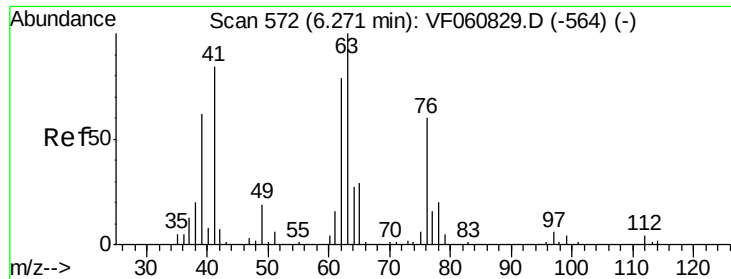


#44

Trichloroethene
 Concen: 23.031 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.05 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.4	0.0	195.6





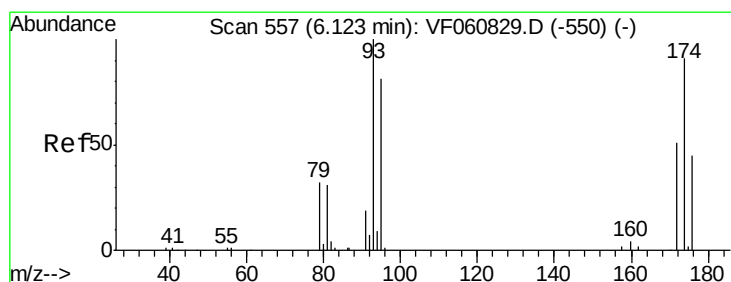
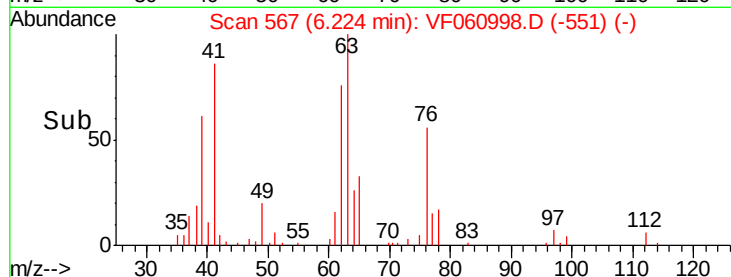
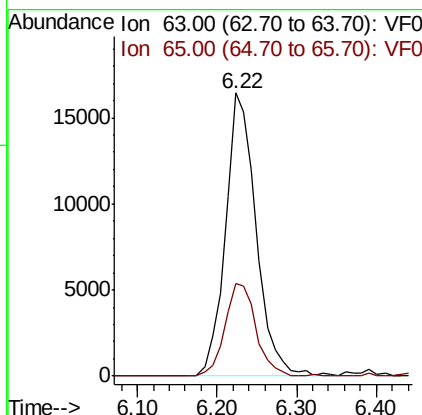
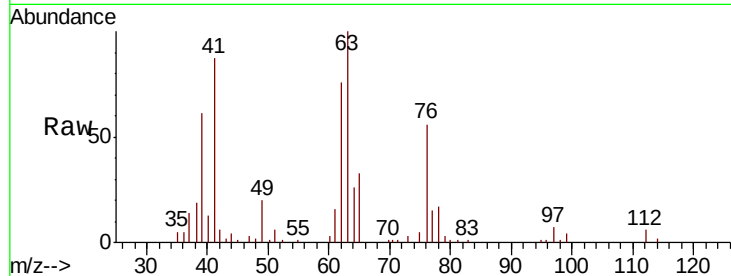
#45
 1,2-Dichloropropane
 Concen: 24.583 ug/l
 RT: 6.22 min Scan# 567
 Delta R.T. -0.05 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion: 63 Resp: 44315
 Ion Ratio Lower Upper
 63 100
 65 33.0 23.2 34.8

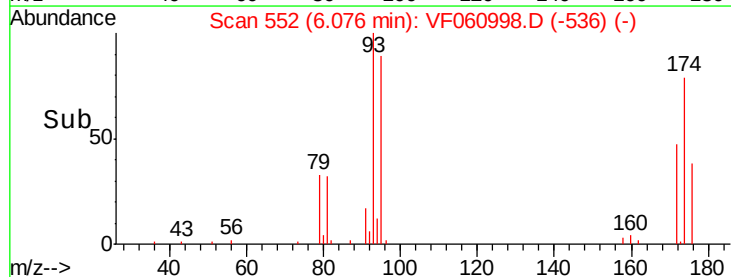
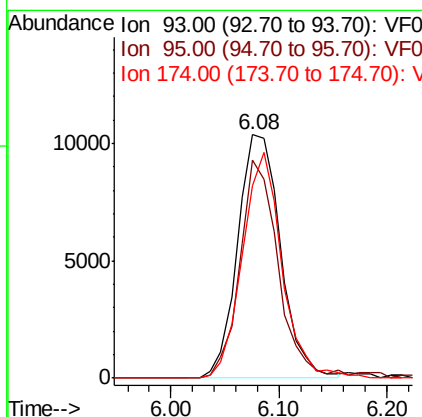
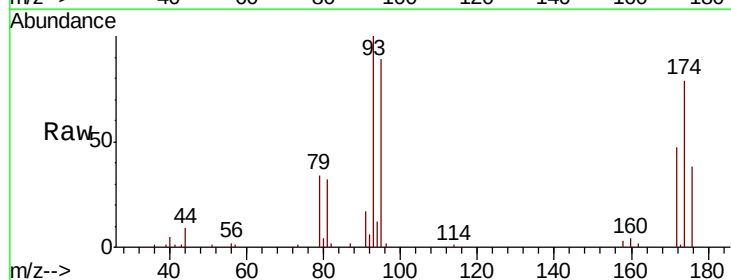
Manual Integrations
 APPROVED

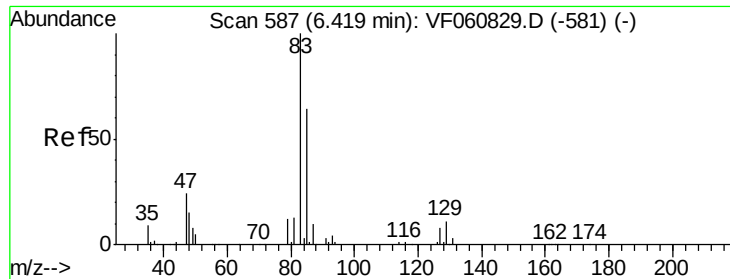
apatel
 12/13/2018 3:41:46 PM



#46
 Dibromomethane
 Concen: 23.436 ug/l
 RT: 6.08 min Scan# 552
 Delta R.T. -0.05 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion: 93 Resp: 28659
 Ion Ratio Lower Upper
 93 100
 95 89.3 64.7 97.1
 174 78.8 73.0 109.6





#47

Bromodichloromethane

Concen: 27.530 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

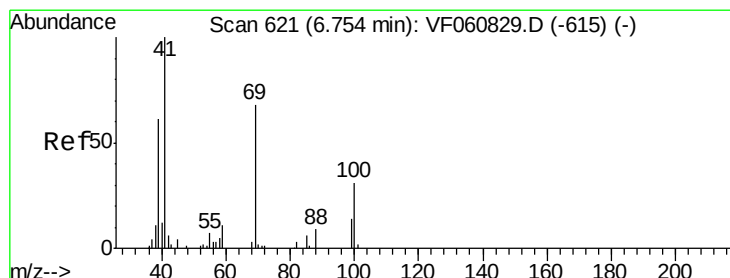
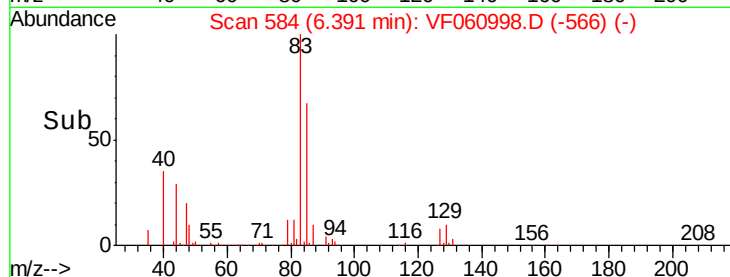
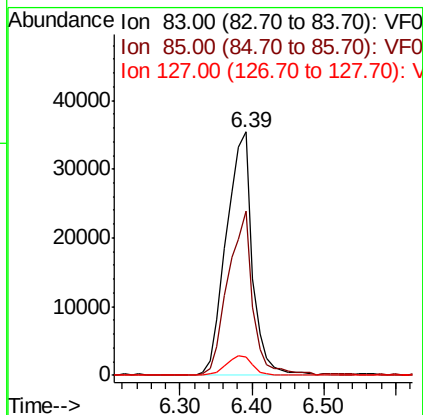
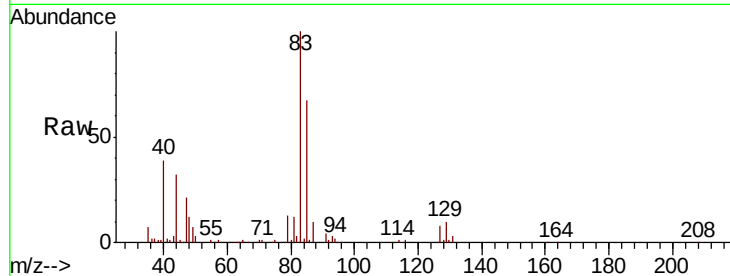
ClientSampleId :

VF1212SBS01

Tot Ion:	83	Resp:	89418
Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.1	76.7
127	7.7	6.8	10.2

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#48

Methyl methacrylate

Concen: 23.809 ug/l

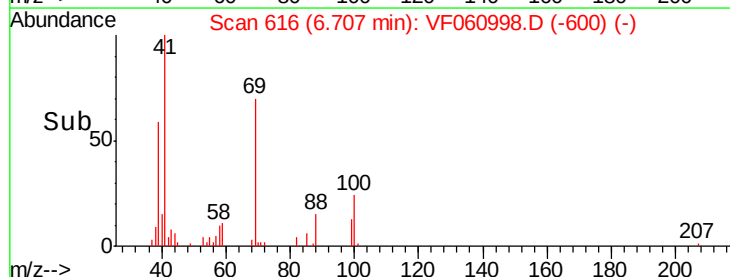
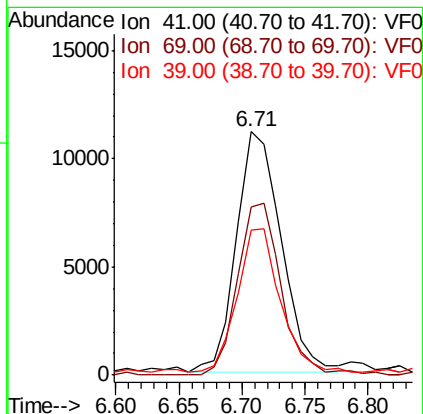
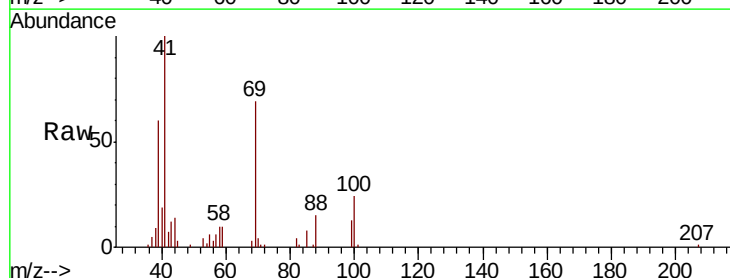
RT: 6.71 min Scan# 616

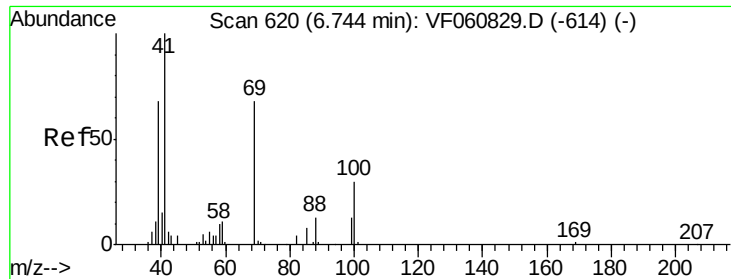
Delta R.T. -0.05 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion:	41	Resp:	27516
Ion	Ratio	Lower	Upper
41	100		
69	69.0	53.9	80.9
39	59.8	49.0	73.6





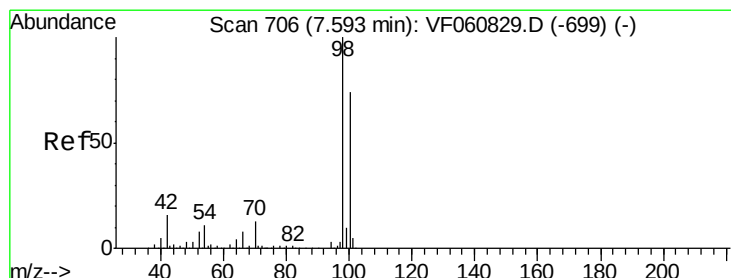
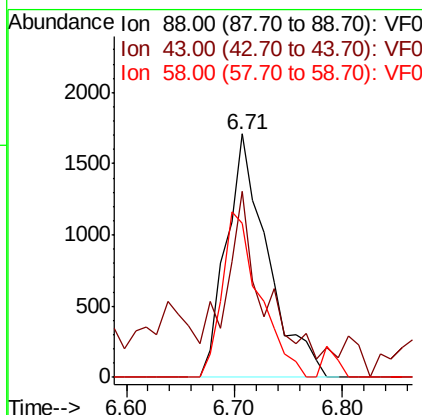
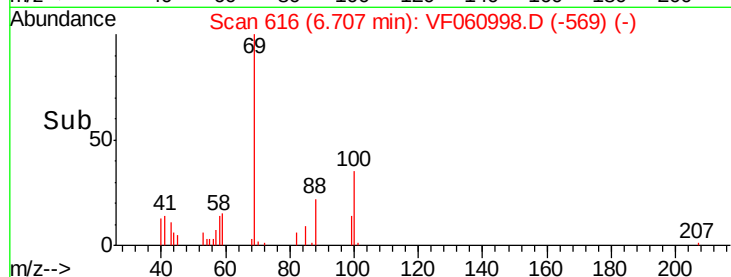
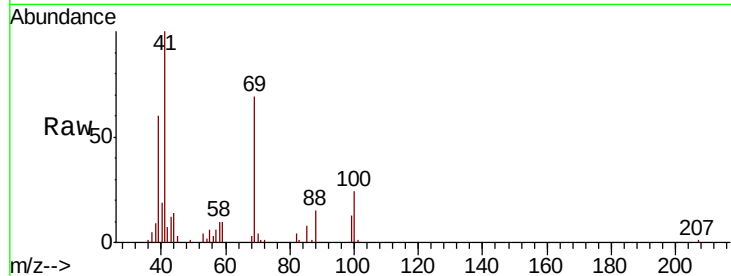
#49
 1,4-Dioxane
 Concen: 537.459 ug/l
 RT: 6.71 min Scan# 616
 Delta R.T. -0.04 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	76.5	42.0	63.0#	
58	63.5	61.8	92.8	

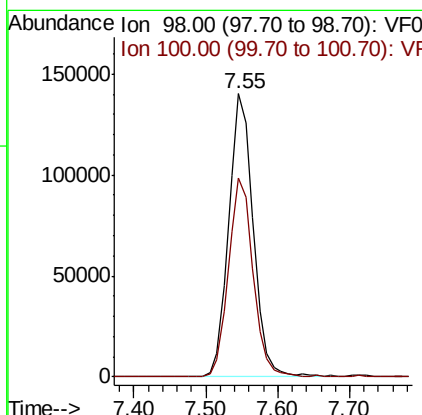
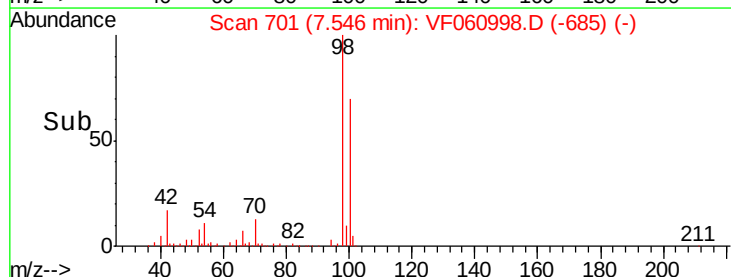
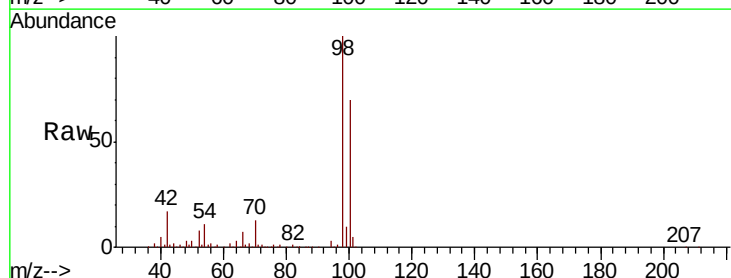
Manual Integrations
 APPROVED

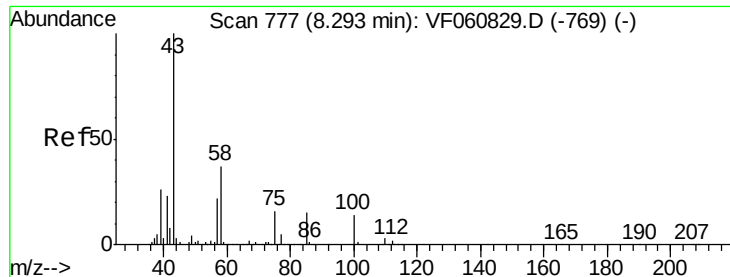
apatel
 12/13/2018 3:41:46 PM



#50
 Toluene-d8
 Concen: 50.224 ug/l
 RT: 7.55 min Scan# 701
 Delta R.T. -0.05 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	70.2	59.3	88.9	





#51

4-Methyl-2-Pentanone

Concen: 114.352 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion: 43 Resp: 134638

Ion Ratio Lower Upper

43 100

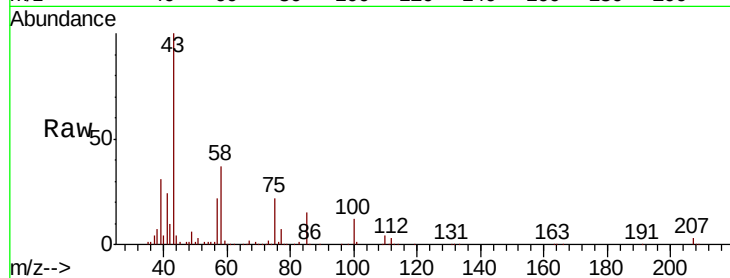
58 37.4 29.7 44.5

Manual Integrations

APPROVED

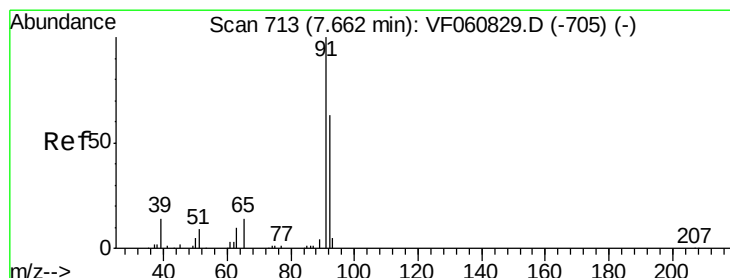
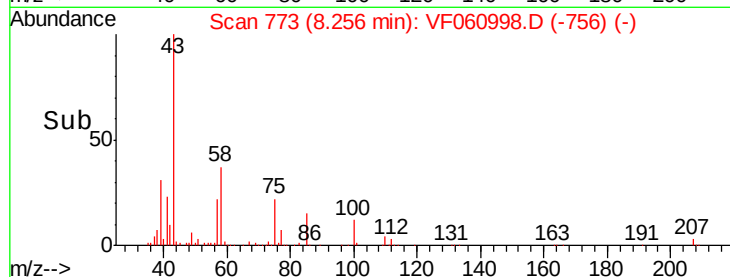
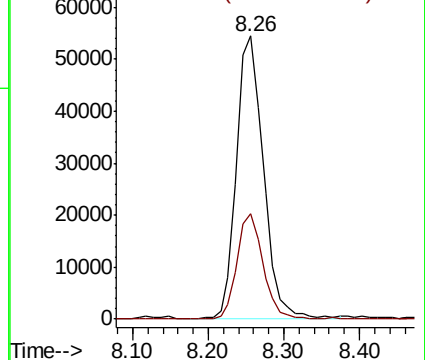
apatel

12/13/2018 3:41:46 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.750 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.05 min

Lab File: VF060998.D

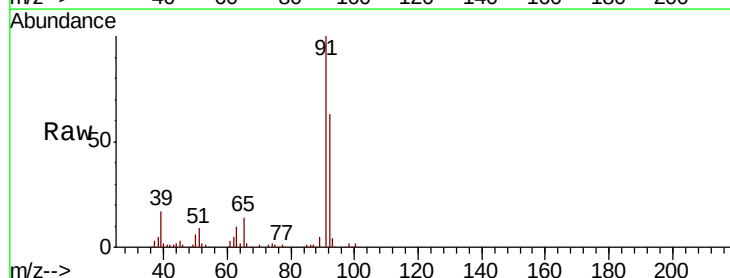
Acq: 12 Dec 2018 16:21

Tgt Ion: 92 Resp: 110919

Ion Ratio Lower Upper

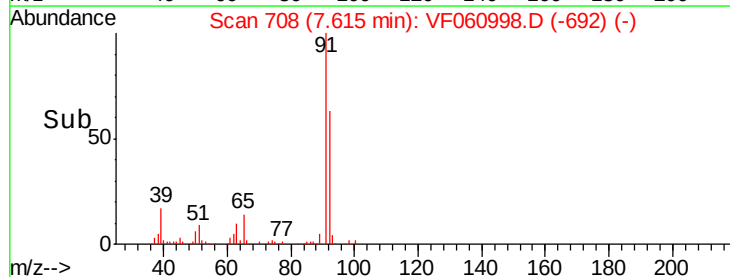
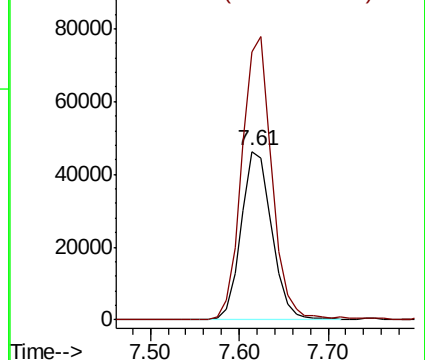
92 100

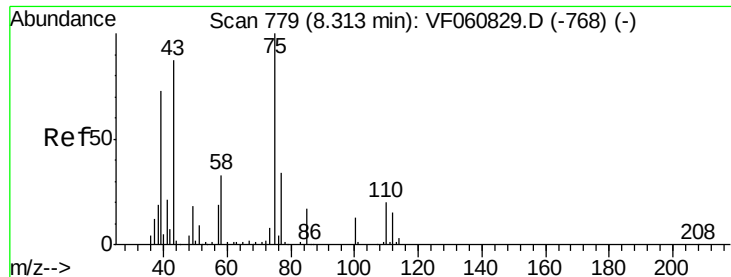
91 159.2 126.2 189.2



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: 23.981 ug/l

RT: 8.28 min Scan# 775

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion: 75 Resp: 63356

Ion Ratio Lower Upper

75 100

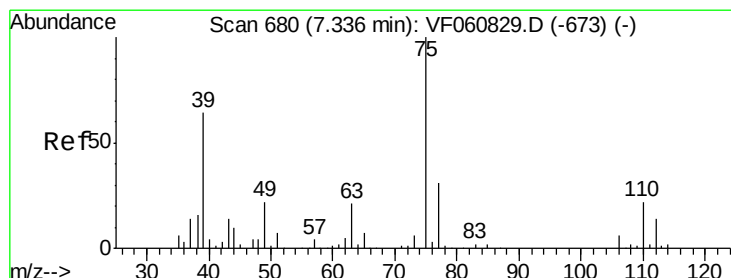
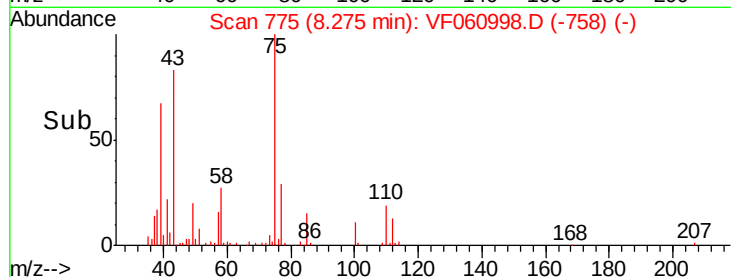
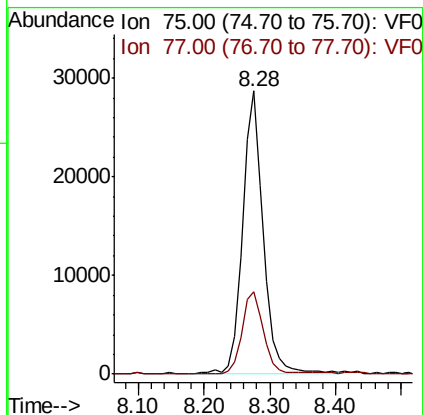
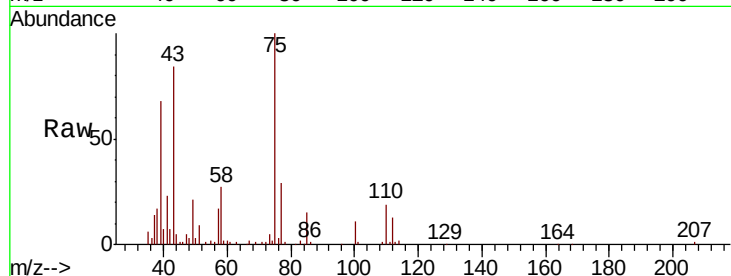
77 29.0 27.4 41.2

Manual Integrations

APPROVED

apatel

12/13/2018 3:41:46 PM



#54

cis-1,3-Dichloropropene

Concen: 23.824 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

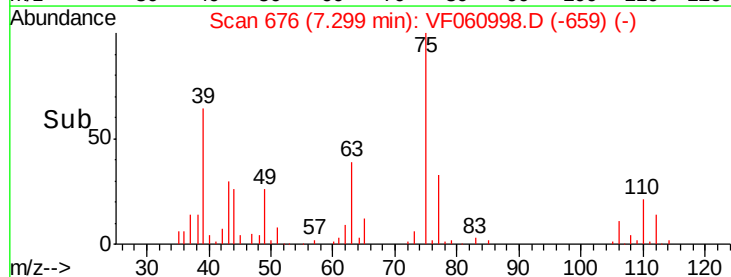
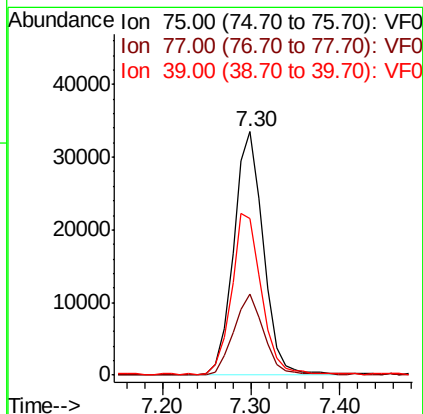
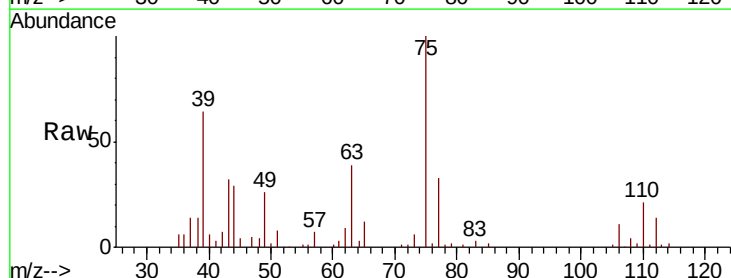
Tgt Ion: 75 Resp: 77922

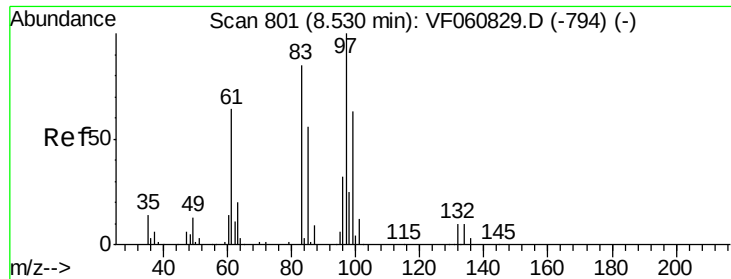
Ion Ratio Lower Upper

75 100

77 33.2 25.0 37.6

39 64.3 51.1 76.7





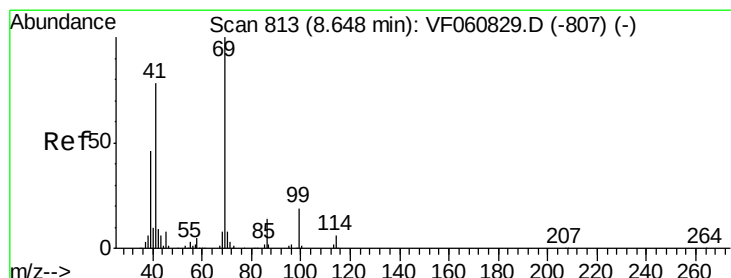
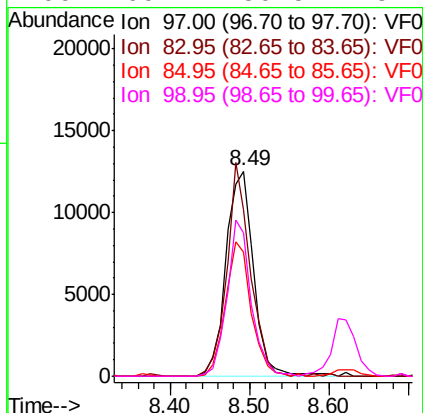
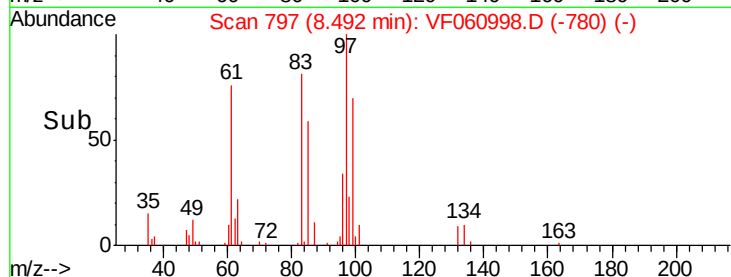
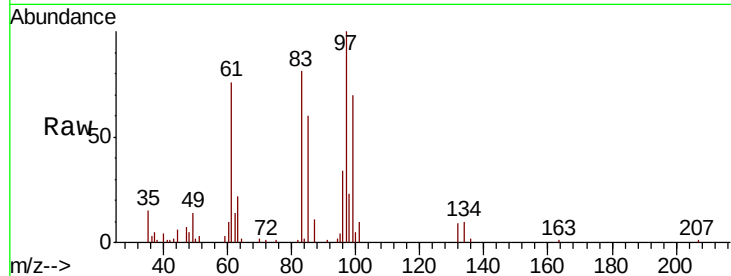
#55
1,1,2-Trichloroethane
Concen: 21.482 ug/l
RT: 8.49 min Scan# 797
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion:	97	Resp:	30519
Ion	Ratio	Lower	Upper
97	100		
83	81.0	67.8	101.6
85	60.3	45.0	67.6
99	69.7	50.5	75.7

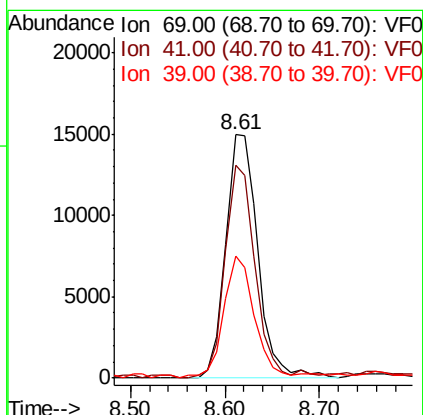
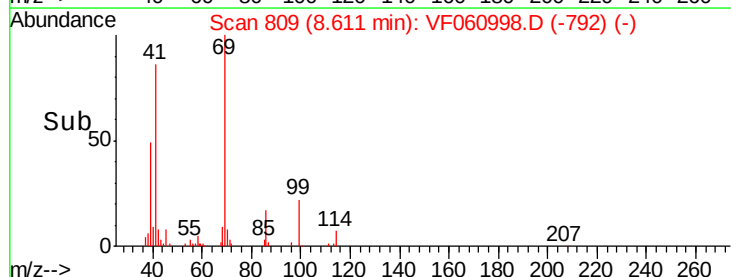
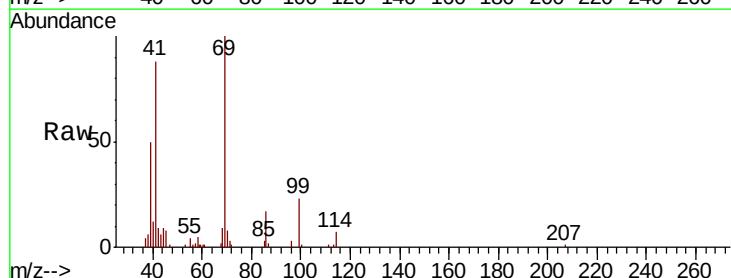
Manual Integrations
APPROVED

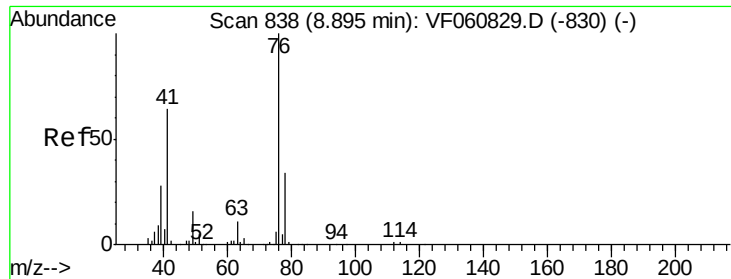
apatel
12/13/2018 3:41:46 PM



#56
Ethyl methacrylate
Concen: 22.292 ug/l
RT: 8.61 min Scan# 809
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion:	69	Resp:	35181
Ion	Ratio	Lower	Upper
69	100		
41	87.6	62.6	94.0
39	50.2	37.8	56.6





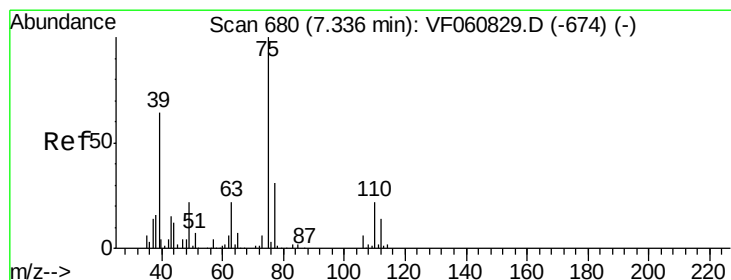
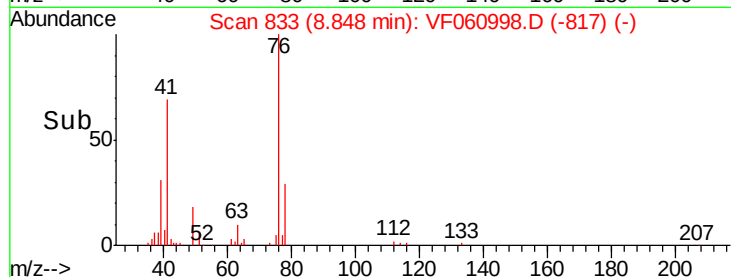
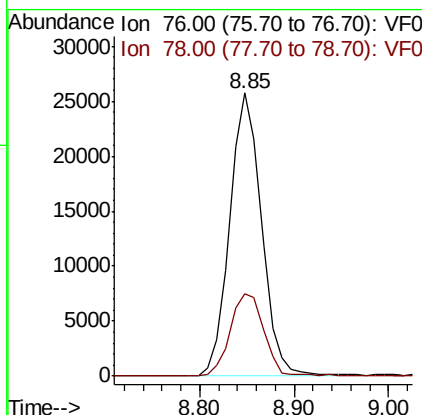
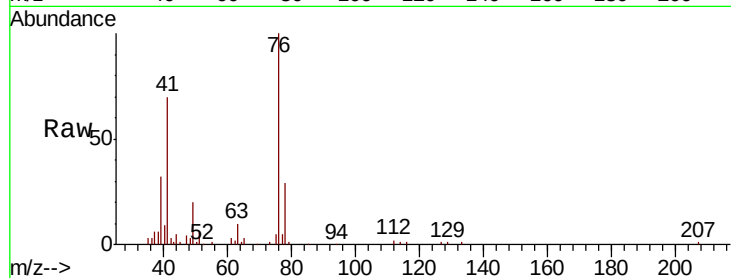
#57
 1,3-Dichloropropane
 Concen: 24.131 ug/l
 RT: 8.85 min Scan# 833
 Delta R.T. -0.05 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion: 76 Resp: 59977
 Ion Ratio Lower Upper
 76 100
 78 29.2 27.0 40.4

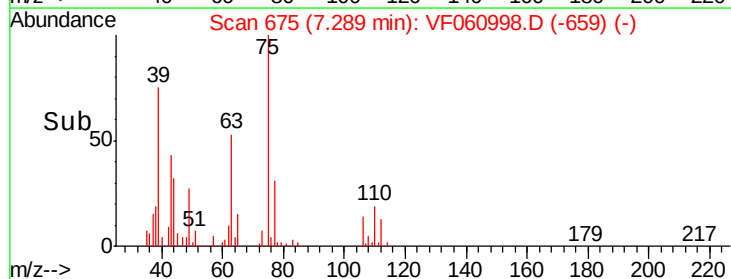
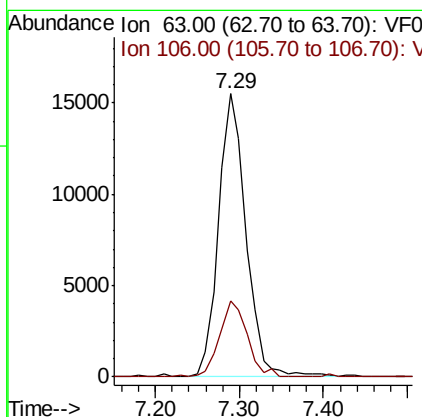
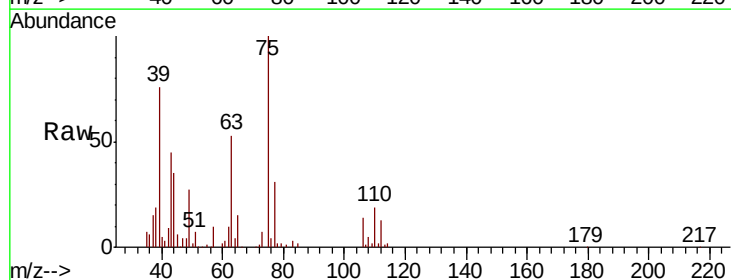
Manual Integrations
 APPROVED

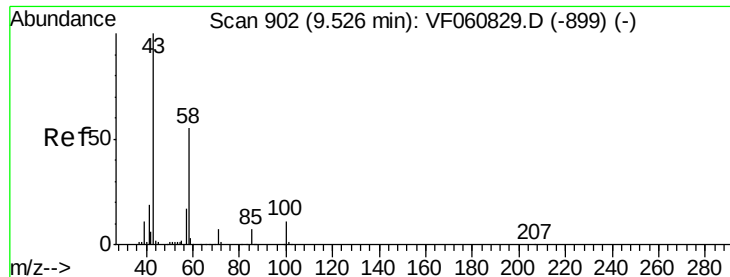
apatel
 12/13/2018 3:41:46 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 217.829 ug/l
 RT: 7.29 min Scan# 675
 Delta R.T. -0.05 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion: 63 Resp: 35163
 Ion Ratio Lower Upper
 63 100
 106 26.7 23.0 34.6





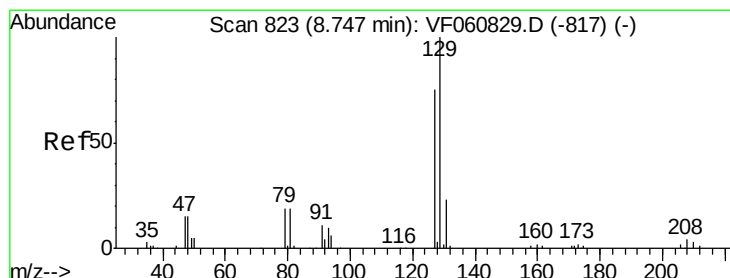
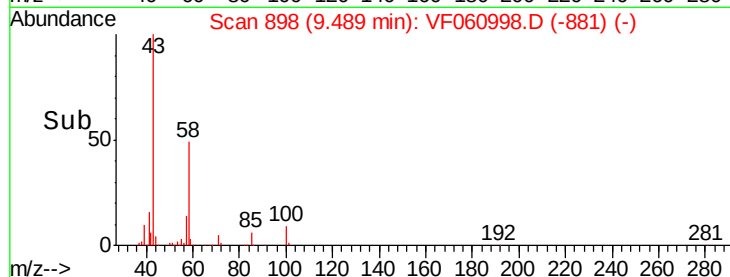
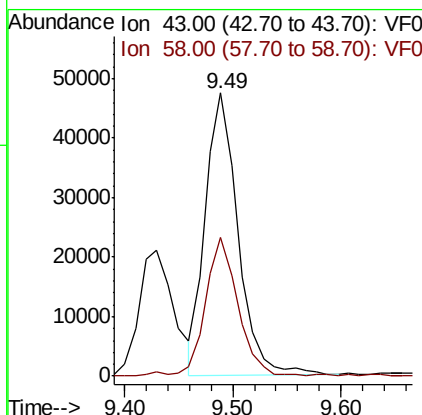
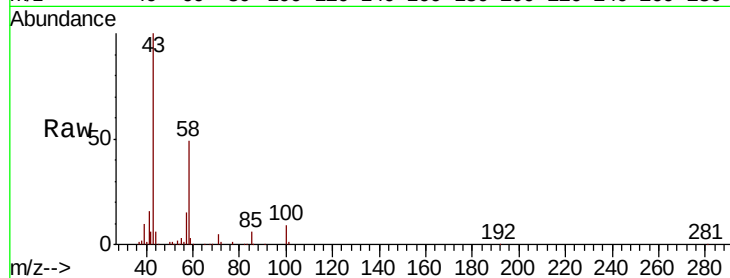
#59
2-Hexanone
Concen: 119.396 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.0	25.6	76.6

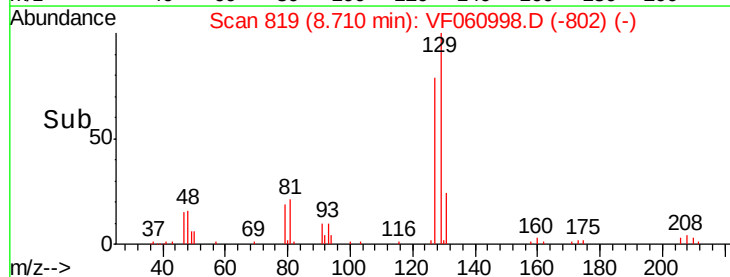
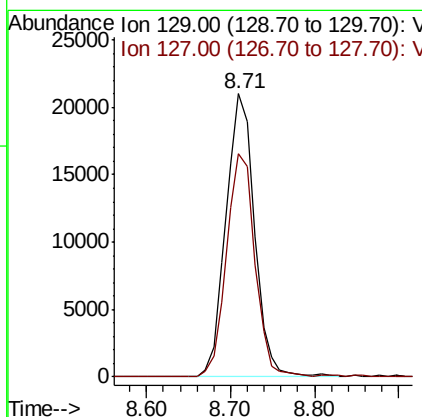
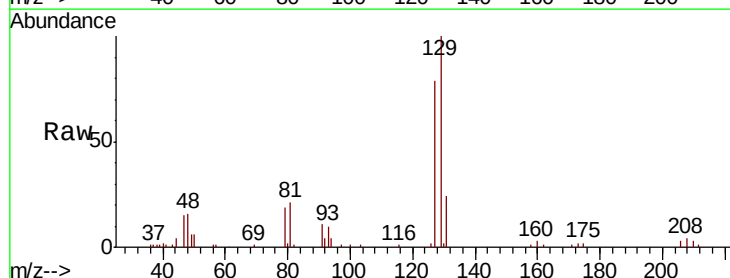
Manual Integrations
APPROVED

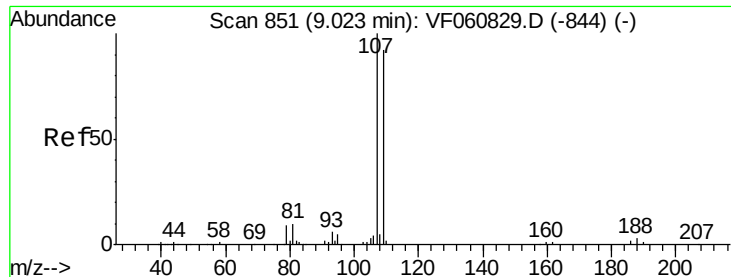
apatel
12/13/2018 3:41:46 PM



#60
Dibromochloromethane
Concen: 23.519 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.9	37.3	111.9





#61

1,2-Dibromoethane

Concen: 22.910 ug/l

RT: 8.99 min Scan# 847

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion:107 Resp: 35160

Ion Ratio Lower Upper

107 100

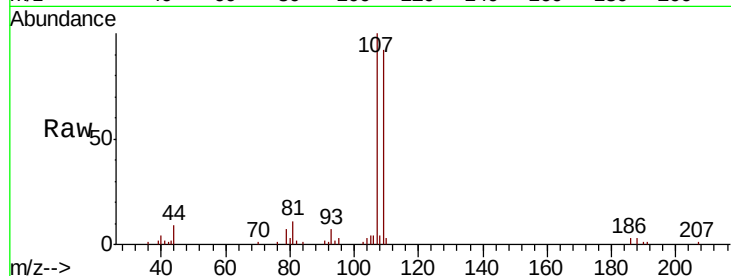
109 92.3 73.6 110.4

Manual Integrations

APPROVED

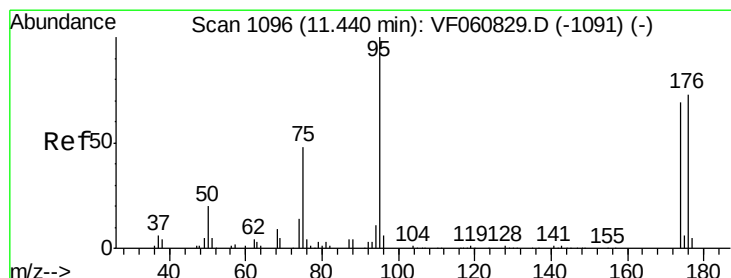
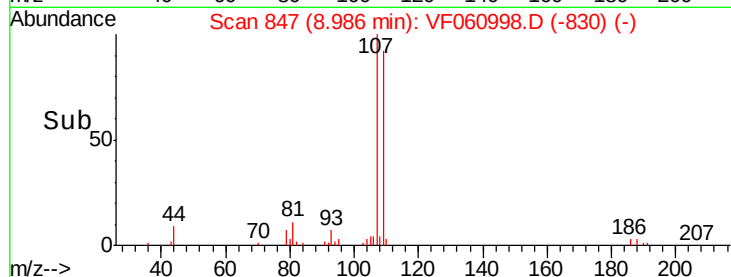
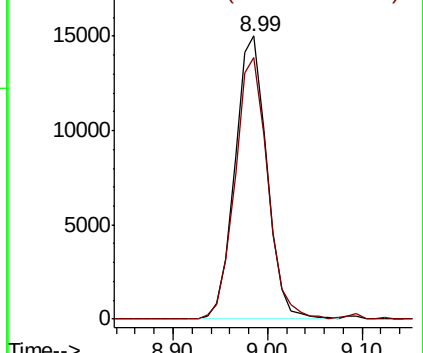
apatel

12/13/2018 3:41:46 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.014 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

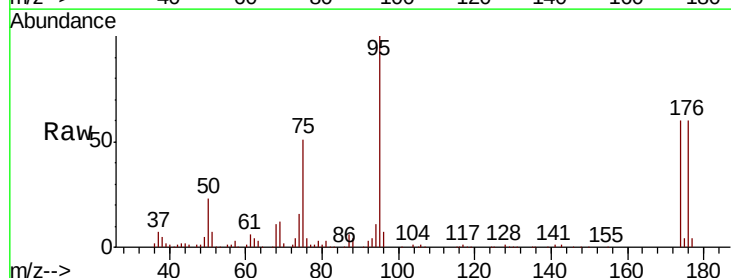
Tgt Ion: 95 Resp: 156485

Ion Ratio Lower Upper

95 100

174 59.8 0.0 138.2

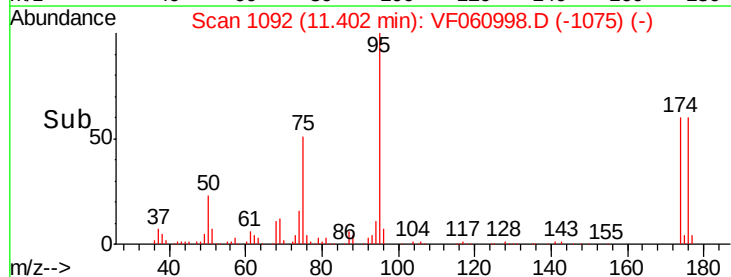
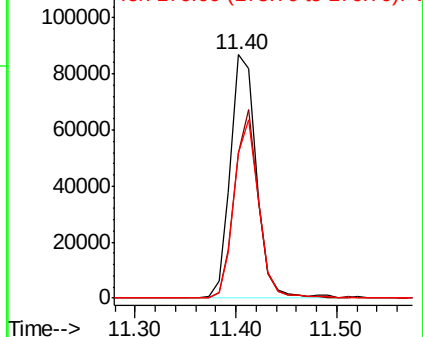
176 59.6 0.0 146.2

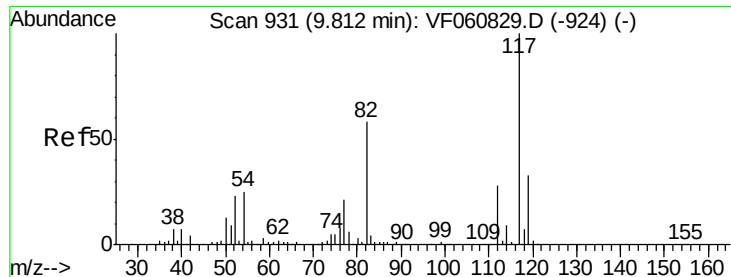


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

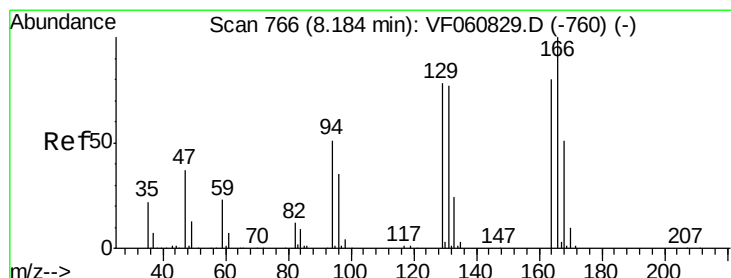
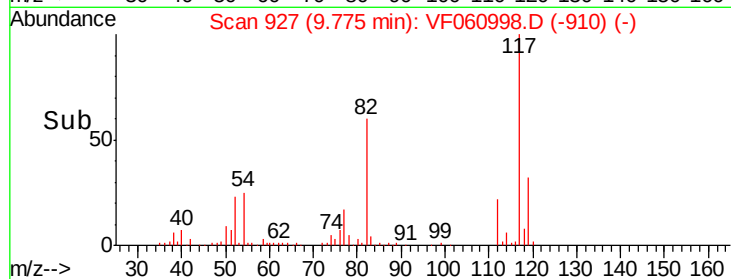
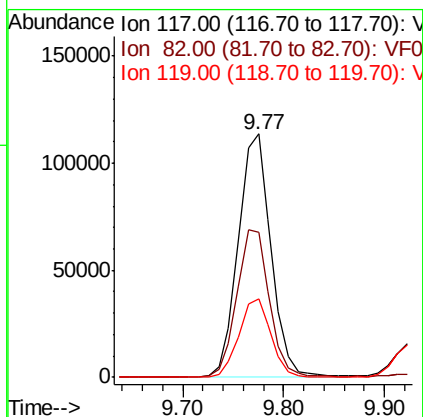
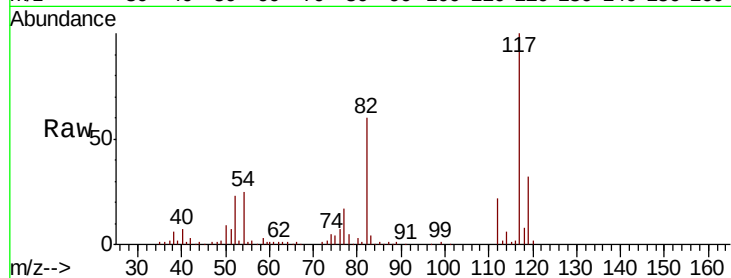
ClientSampleId :

VF1212SBS01

Tot Ion:	117	Resp:	257651
Ion Ratio		Lower	Upper
117	100		
82	59.7	46.6	69.8
119	32.2	26.4	39.6

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#64

Tetrachloroethene

Concen: 23.262 ug/l

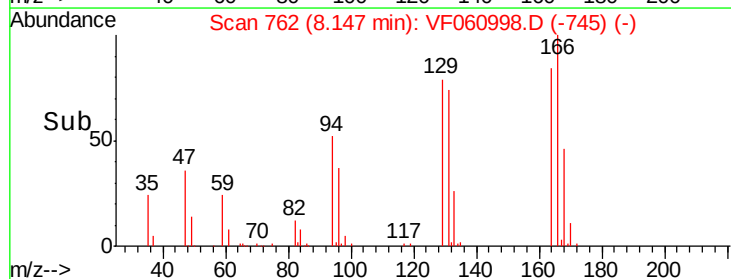
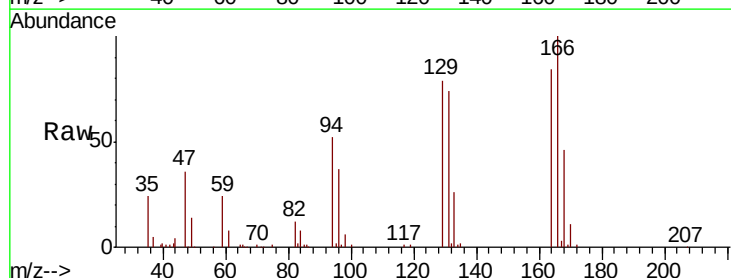
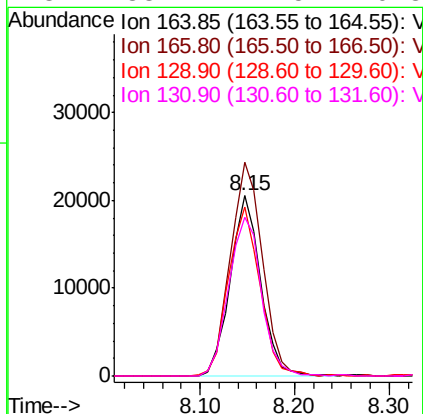
RT: 8.15 min Scan# 762

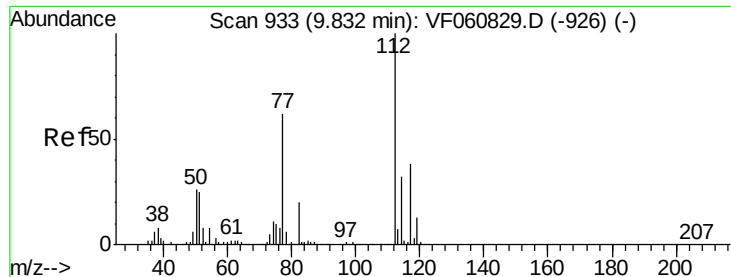
Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion:	164	Resp:	45779
Ion Ratio		Lower	Upper
164	100		
166	118.5	100.3	150.5
129	93.6	77.9	116.9
131	88.2	77.5	116.3





#65

Chlorobenzene

Concen: 24.986 ug/l

RT: 9.79 min Scan# 929

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion:112 Resp: 125239

Ion Ratio Lower Upper

112 100

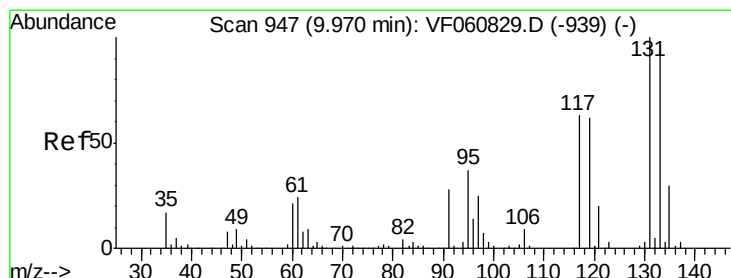
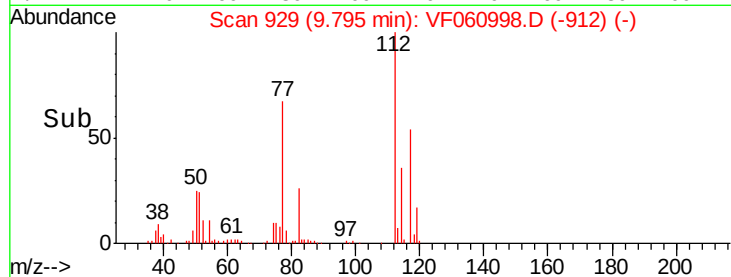
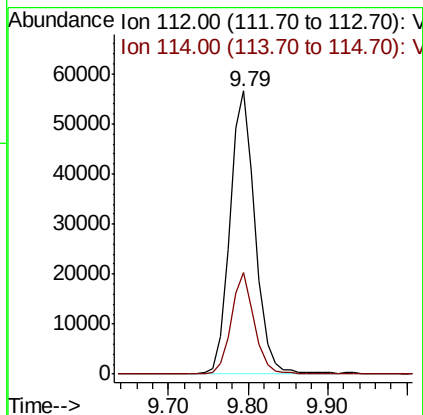
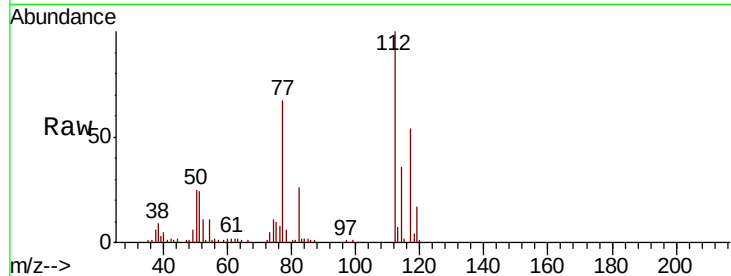
114 35.9 26.0 39.0

Manual Integrations

APPROVED

apatel

12/13/2018 3:41:46 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 23.796 ug/l

RT: 9.92 min Scan# 942

Delta R.T. -0.05 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

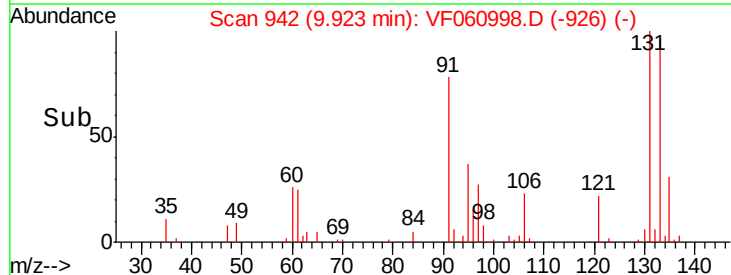
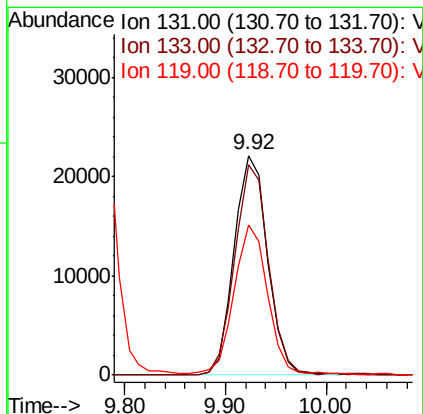
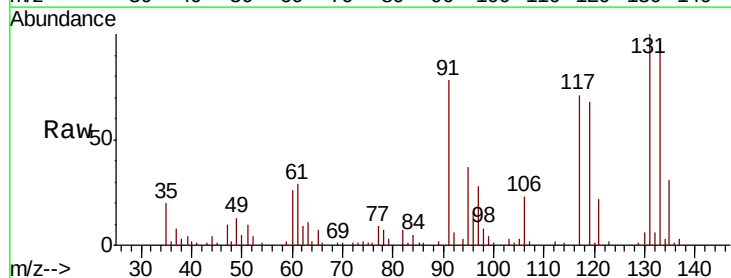
Tgt Ion:131 Resp: 51276

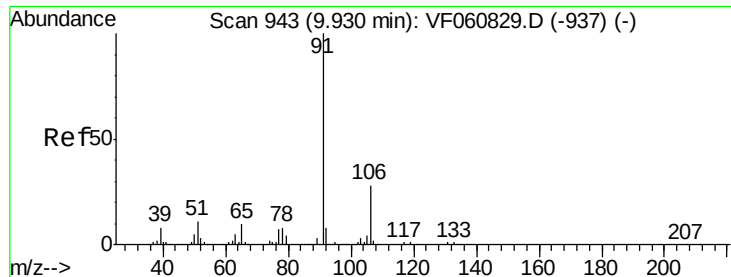
Ion Ratio Lower Upper

131 100

133 95.8 46.5 139.3

119 68.5 31.1 93.3





#67

Ethyl Benzene

Concen: 24.764 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion: 91 Resp: 231078

Ion Ratio Lower Upper

91 100

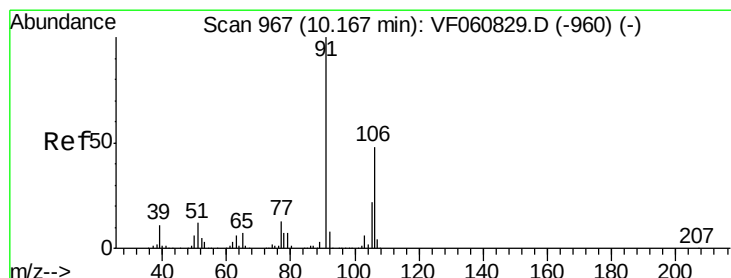
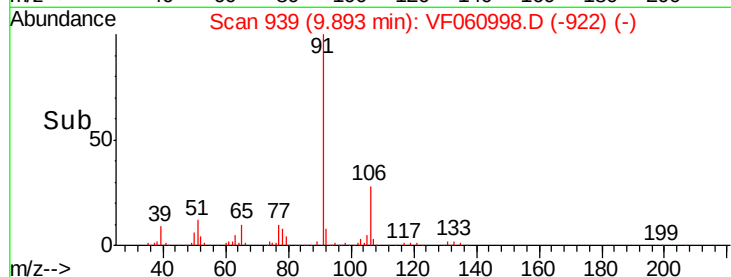
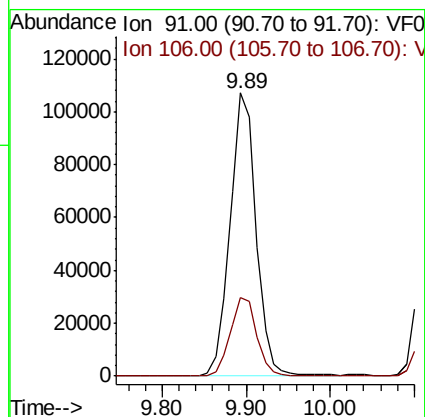
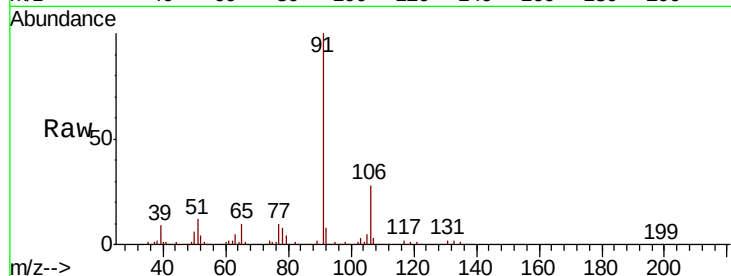
106 27.8 22.2 33.2

Manual Integrations

APPROVED

apatel

12/13/2018 3:41:46 PM



#68

m/p-Xylenes

Concen: 46.470 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.04 min

Lab File: VF060998.D

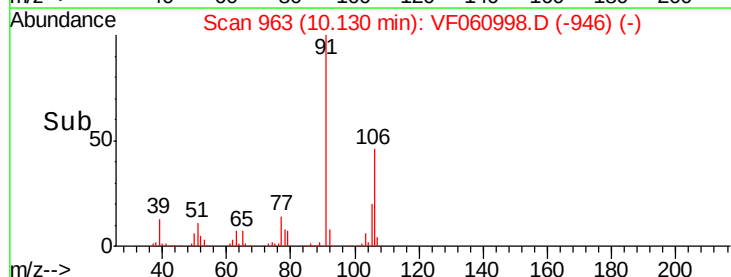
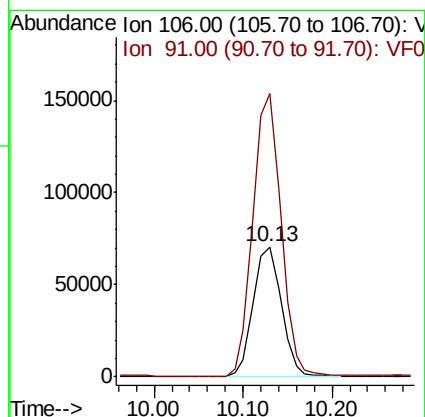
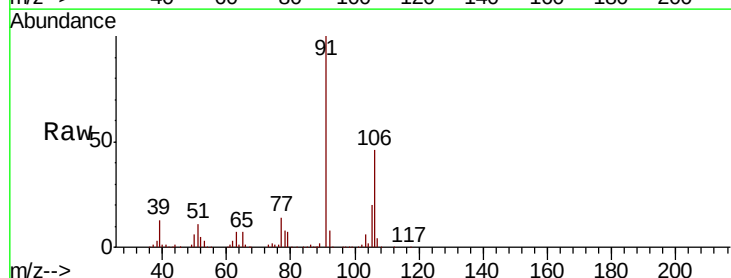
Acq: 12 Dec 2018 16:21

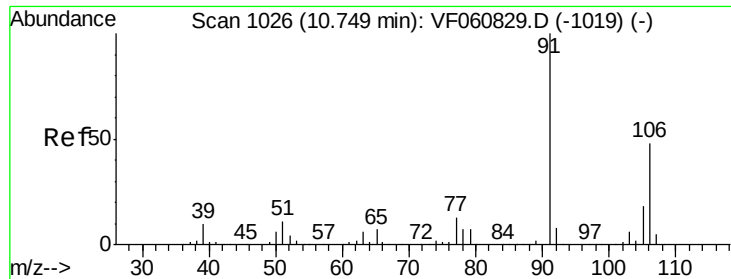
Tgt Ion: 106 Resp: 155958

Ion Ratio Lower Upper

106 100

91 217.5 166.7 250.1





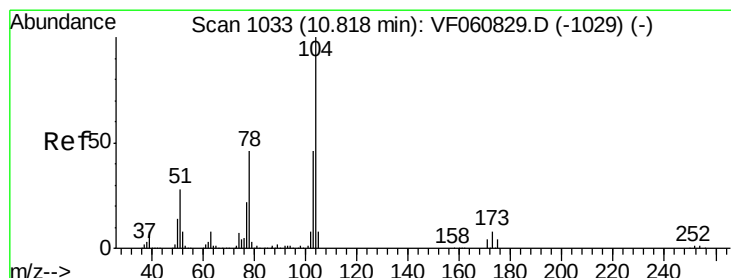
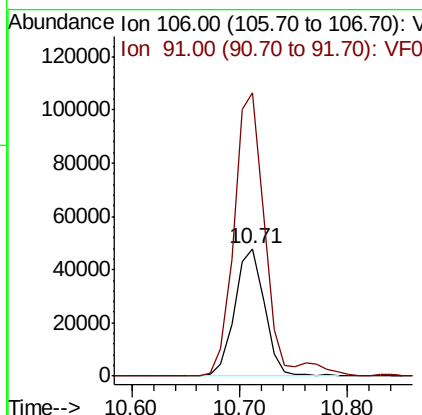
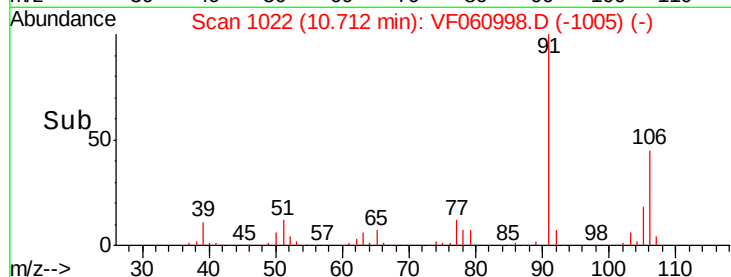
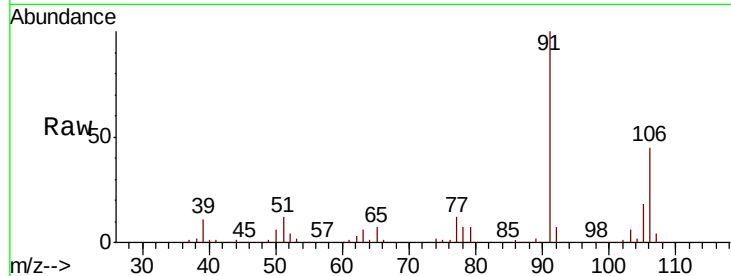
#69
o-Xylene
Concen: 24.959 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion:106 Resp: 92368
Ion Ratio Lower Upper
106 100
91 222.5 104.8 314.6

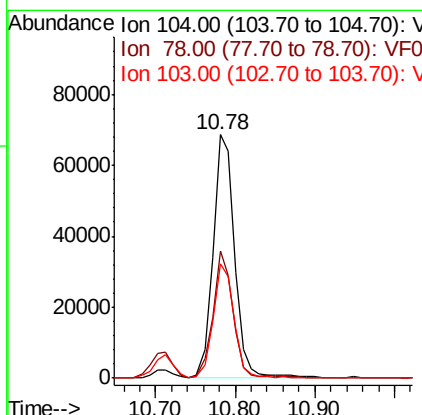
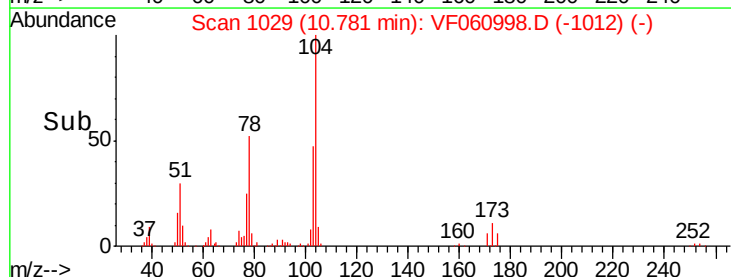
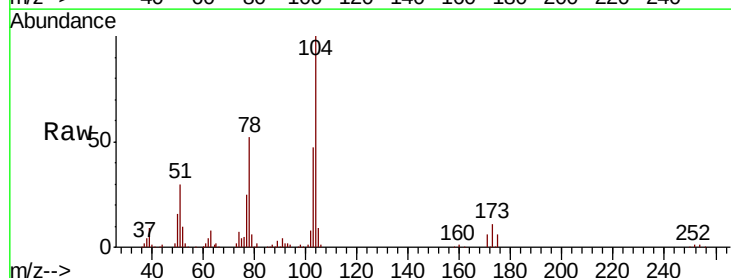
Manual Integrations
APPROVED

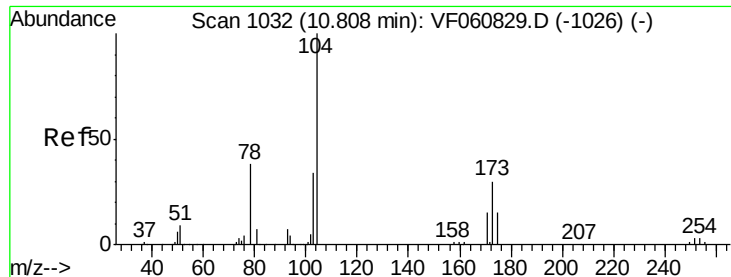
apatel
12/13/2018 3:41:46 PM



#70
Styrene
Concen: 25.379 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion:104 Resp: 130197
Ion Ratio Lower Upper
104 100
78 52.0 37.3 55.9
103 46.9 36.8 55.2





#71

Bromoform

Concen: 24.269 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

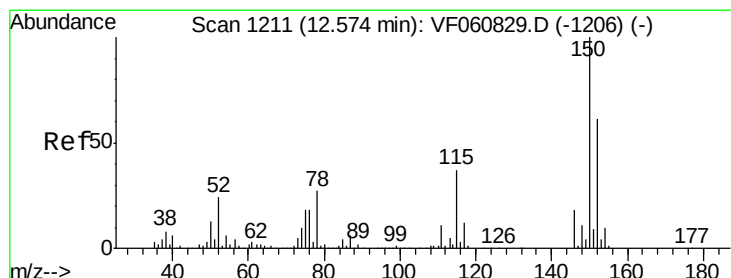
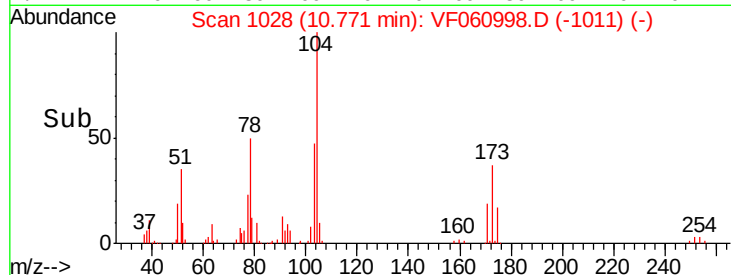
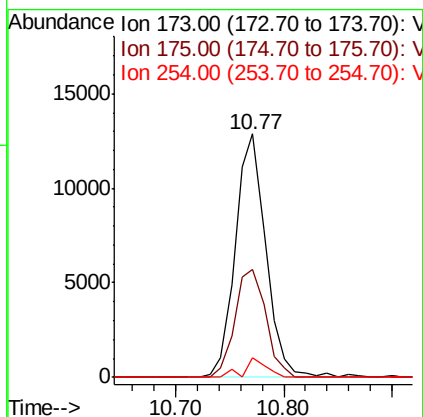
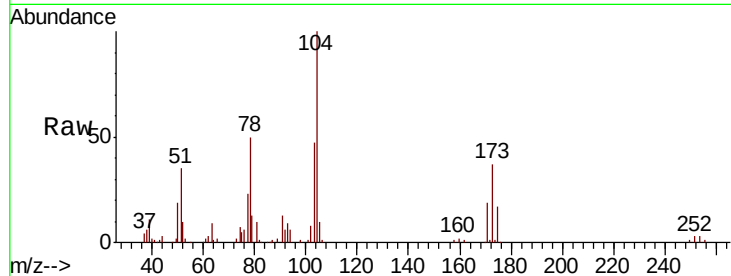
ClientSampleId :

VF1212SBS01

Tot Ion:	173	Resp:	25260
Ion Ratio	Lower	Upper	
173	100		
175	44.1	25.5	76.5
254	8.1	7.5	11.3

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

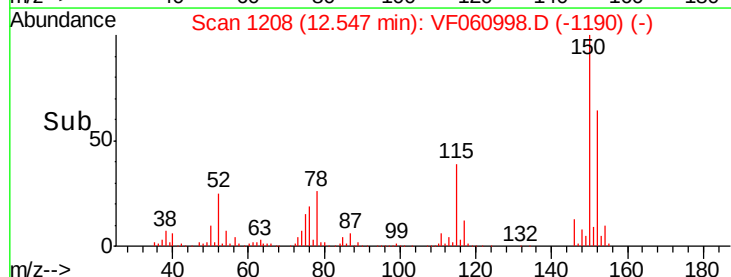
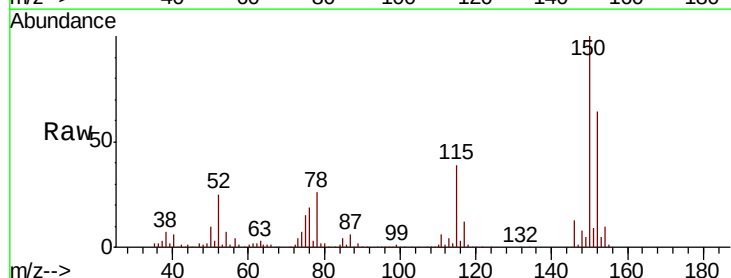
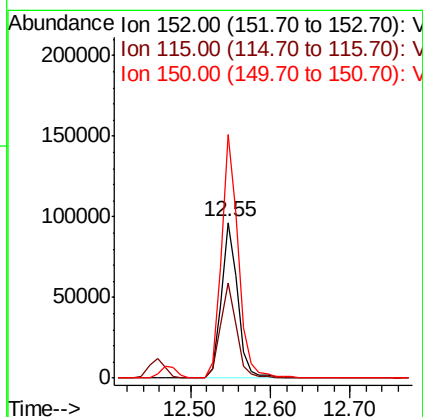
RT: 12.55 min Scan# 1208

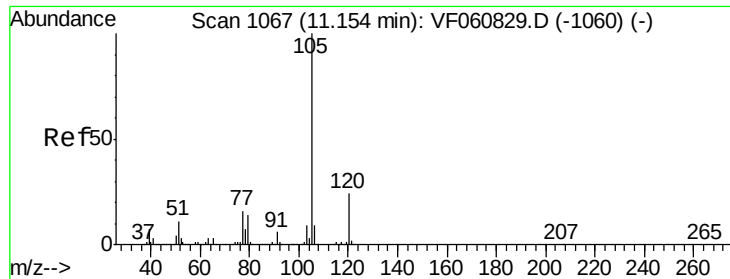
Delta R.T. -0.03 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion:	152	Resp:	140491
Ion Ratio	Lower	Upper	
152	100		
115	61.1	30.1	90.5
150	156.3	0.0	327.6





#73

Isopropylbenzene

Concen: 24.533 ug/l

RT: 11.12 min Scan# 1063

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS01

Tot Ion:105 Resp: 272374

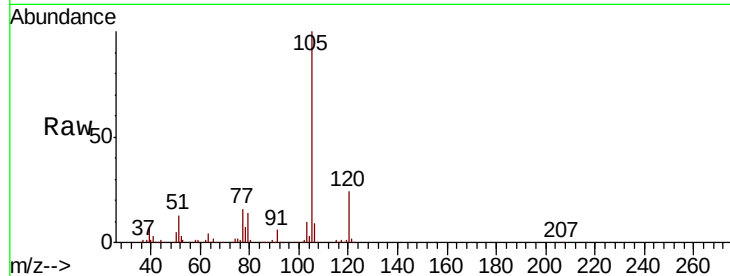
Ion Ratio Lower Upper

105 100

120 23.6 12.2 36.4

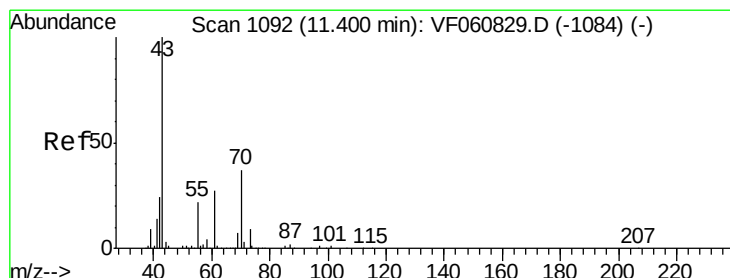
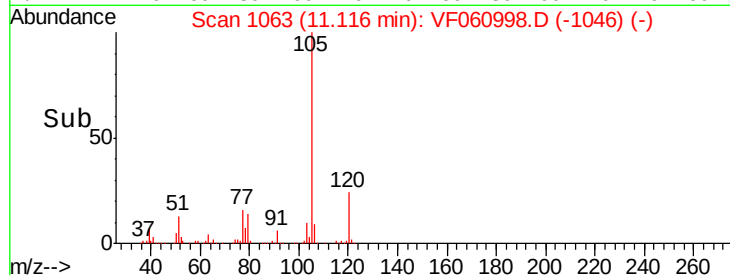
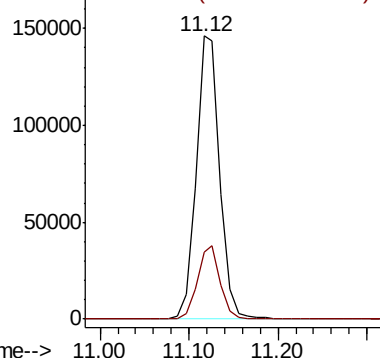
Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 25.017 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion: 43 Resp: 64137

Ion Ratio Lower Upper

43 100

70 32.8 29.6 44.4

55 19.4 17.2 25.8

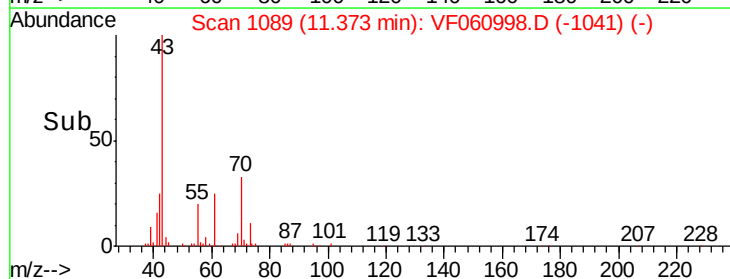
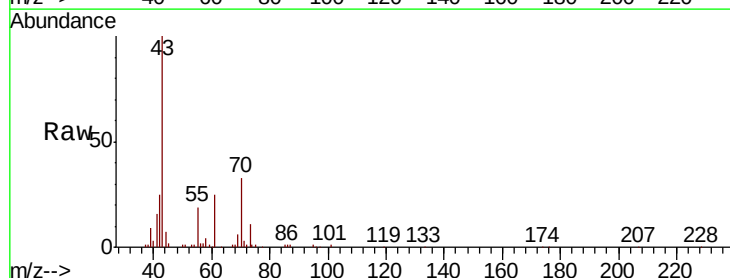
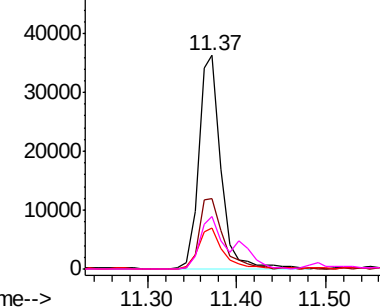
61 24.7 21.8 32.6

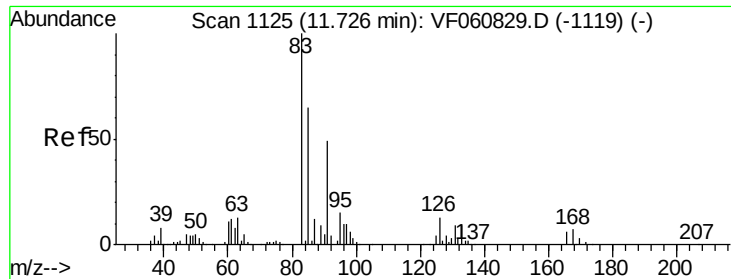
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 26.191 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

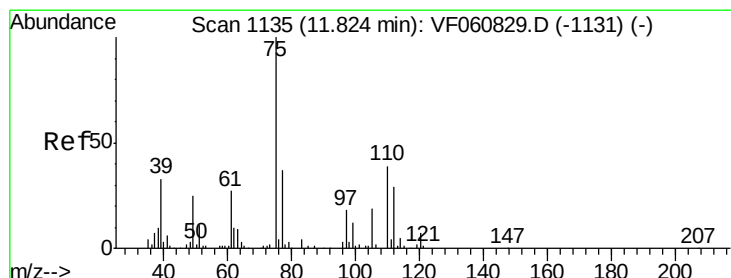
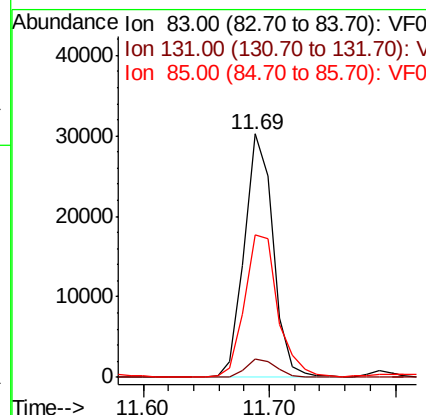
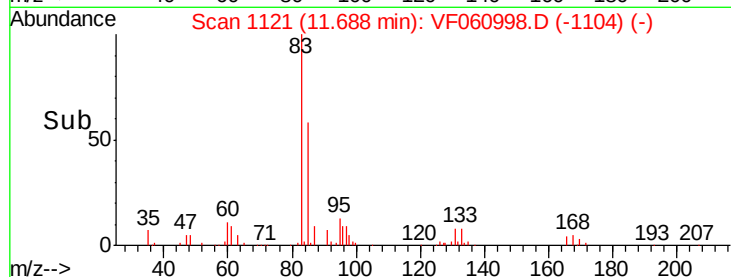
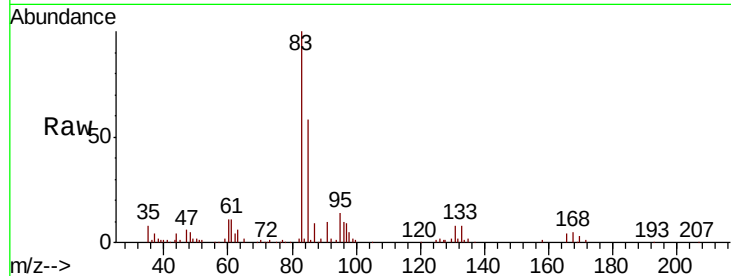
ClientSampleId :

VF1212SBS01

Tot Ion:	83	Resp:	47856
Ion	Ratio	Lower	Upper
83	100		
131	7.6	4.7	14.1
85	58.5	32.6	97.8

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#76

1,2,3-Trichloropropane

Concen: 25.644 ug/l

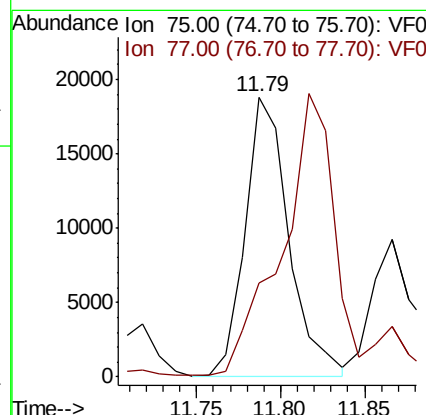
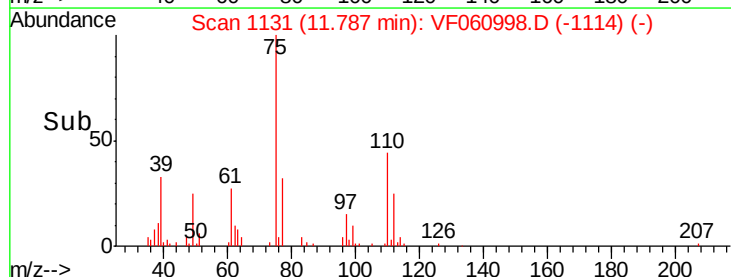
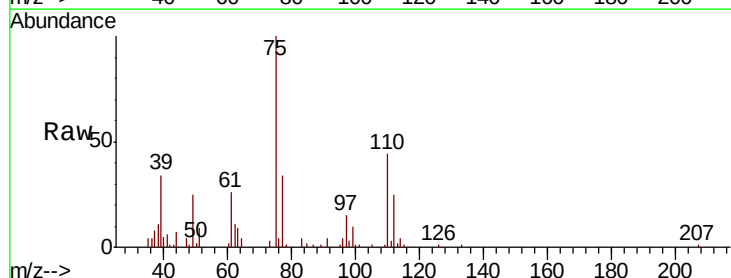
RT: 11.79 min Scan# 1131

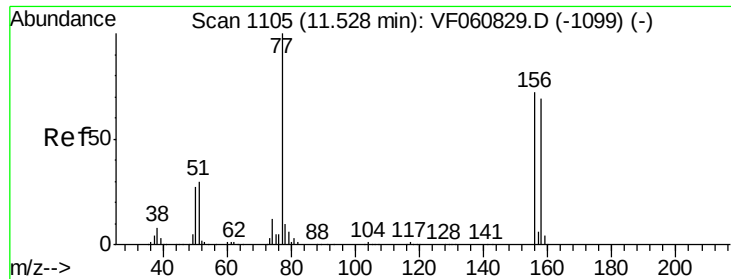
Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion:	75	Resp:	34059
Ion	Ratio	Lower	Upper
75	100		
77	33.6	18.4	55.4





#77

Bromobenzene

Concen: 23.189 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.04 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Instrument :

MSVOA_F

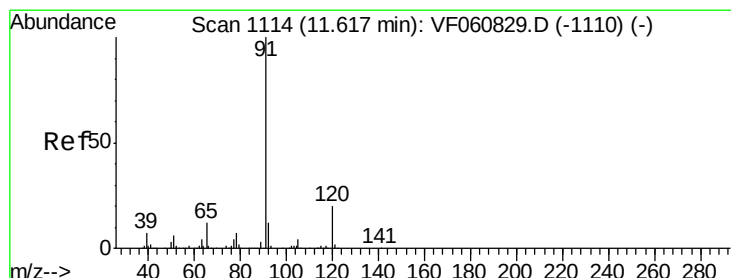
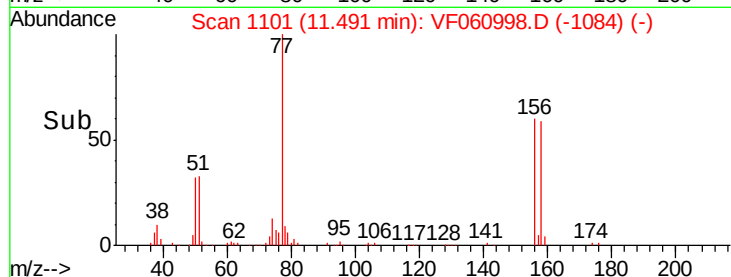
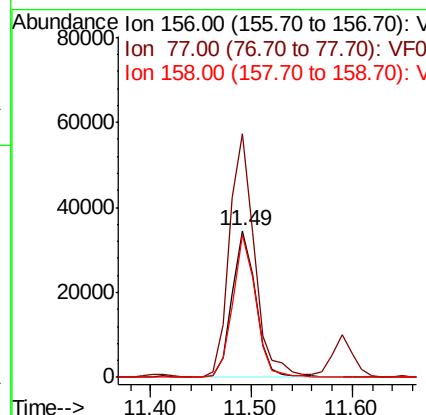
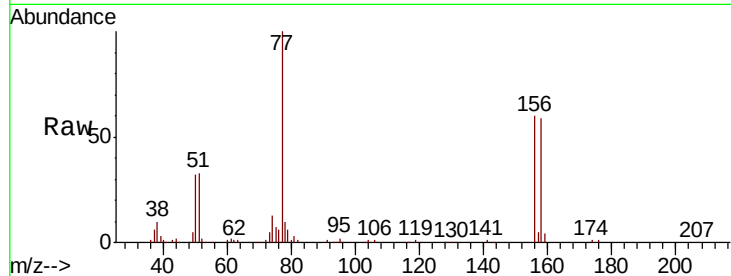
ClientSampleId :

VF1212SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		56443		
77	166.2	69.7	209.0		
158	97.3	47.8	143.4		

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#78

n-propylbenzene

Concen: 25.250 ug/l

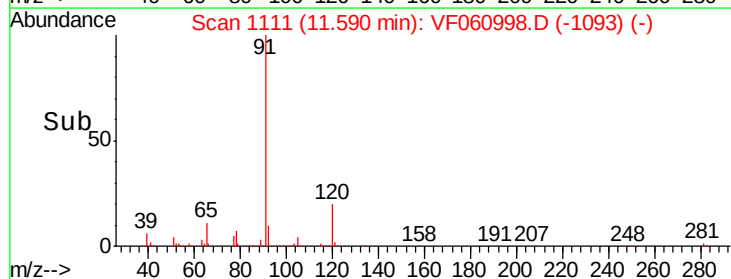
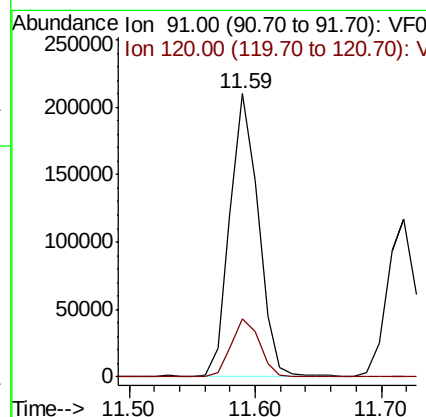
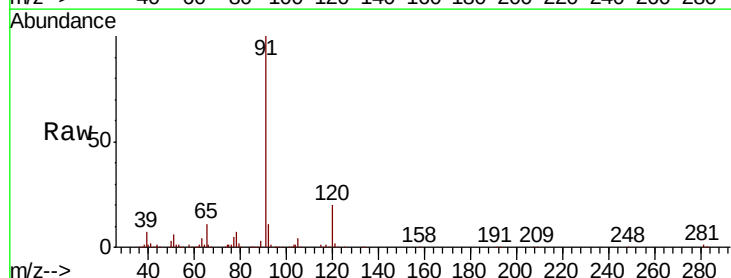
RT: 11.59 min Scan# 1111

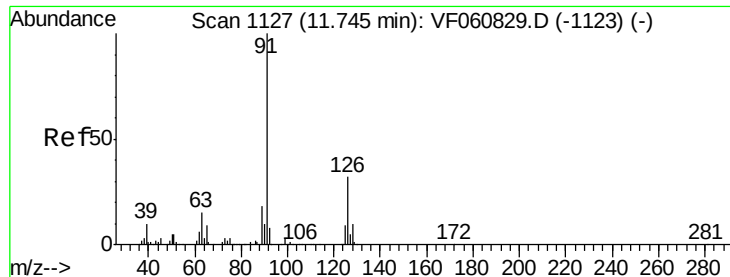
Delta R.T. -0.03 min

Lab File: VF060998.D

Acq: 12 Dec 2018 16:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		328298		
120	20.4	10.3	30.8		





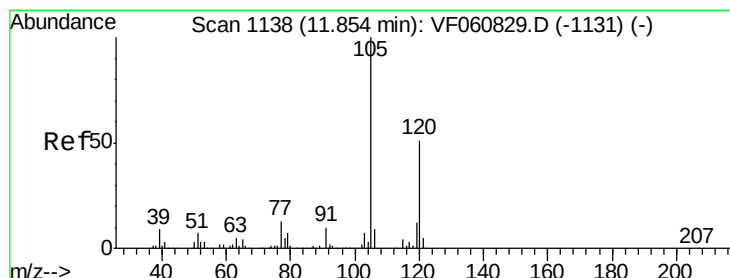
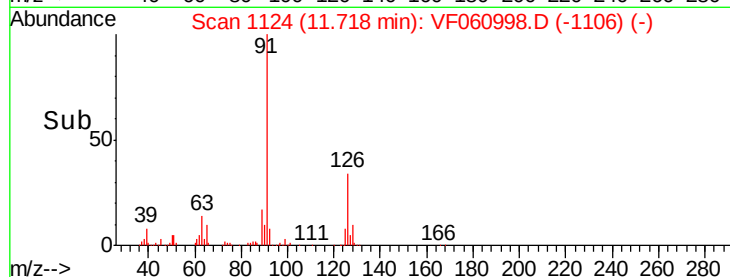
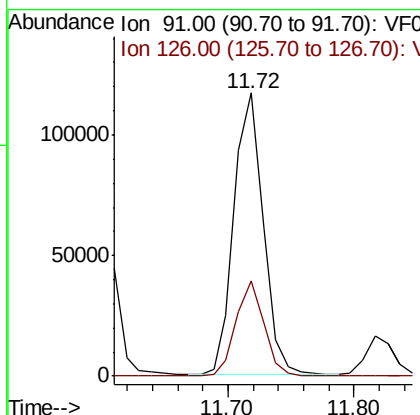
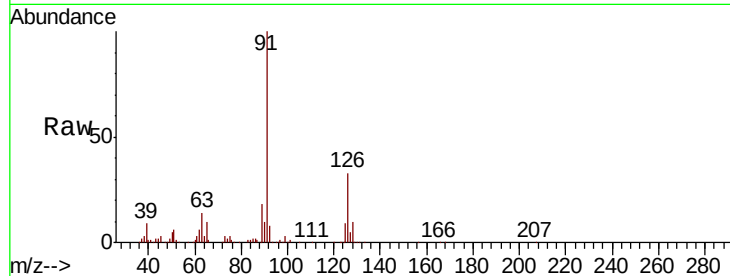
#79
 2-Chlorotoluene
 Concen: 25.038 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. -0.03 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
126	33.4	15.9	47.6

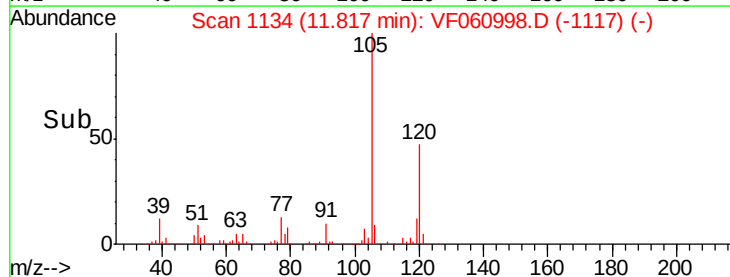
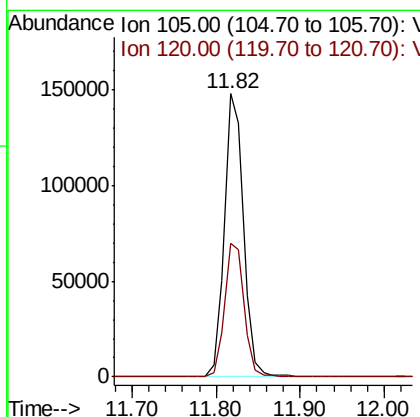
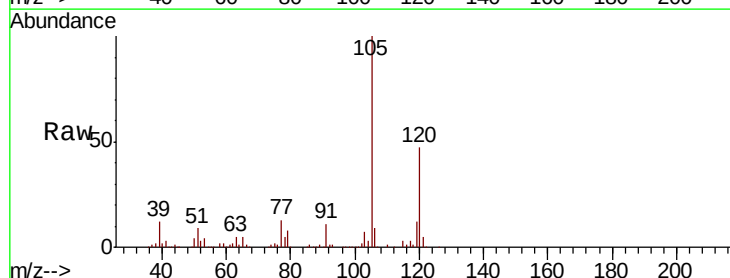
Manual Integrations
 APPROVED

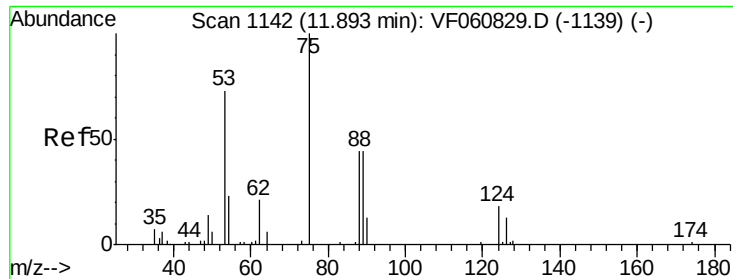
apatel
 12/13/2018 3:41:46 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 25.897 ug/l
 RT: 11.82 min Scan# 1134
 Delta R.T. -0.04 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.0	25.8	77.3





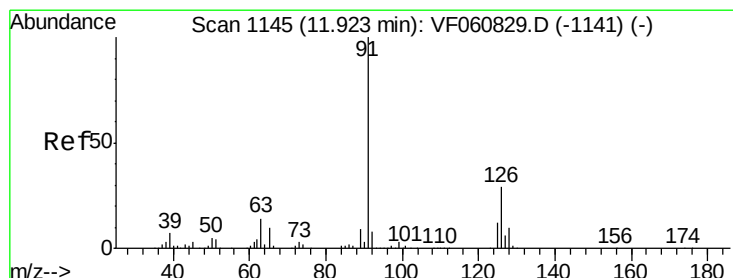
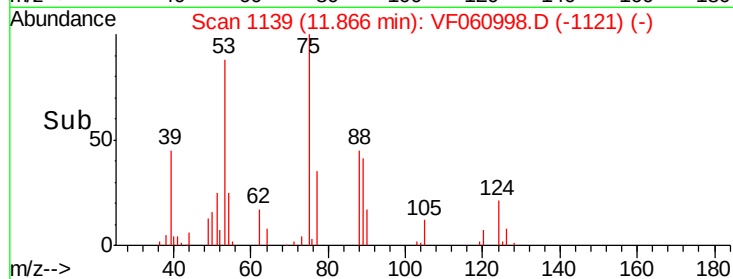
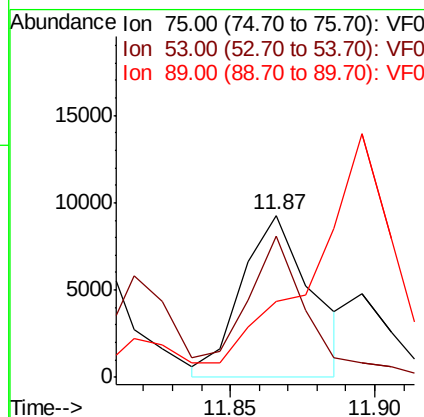
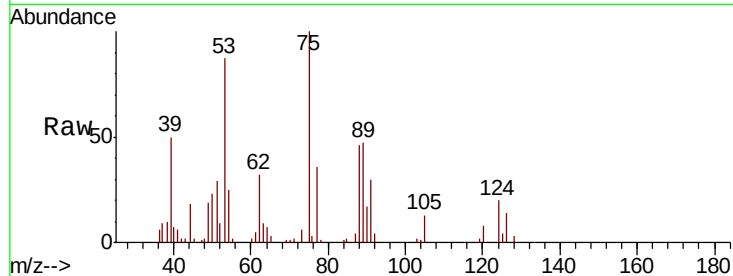
#81
trans-1,4-Dichloro-2-butene
Concen: 24.077 ug/l m
RT: 11.87 min Scan# 1139
Delta R.T. -0.03 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.0	65.9	98.9
89	47.1	38.8	58.2

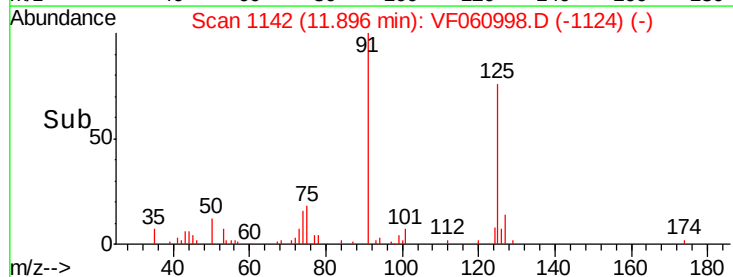
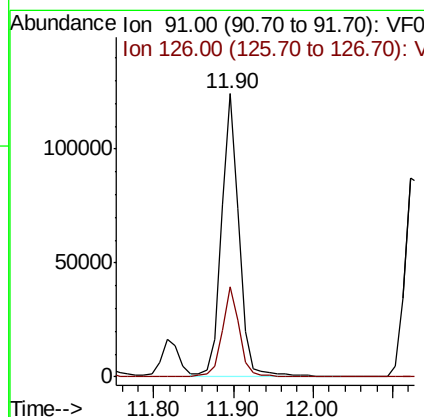
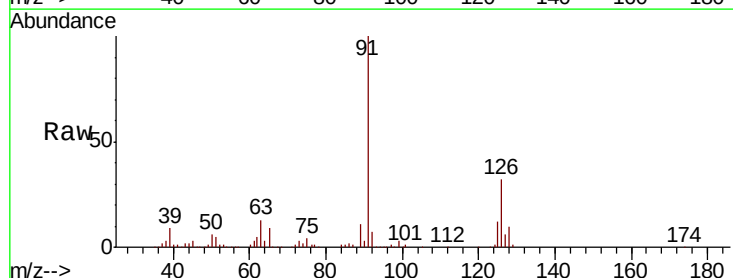
Manual Integrations
APPROVED

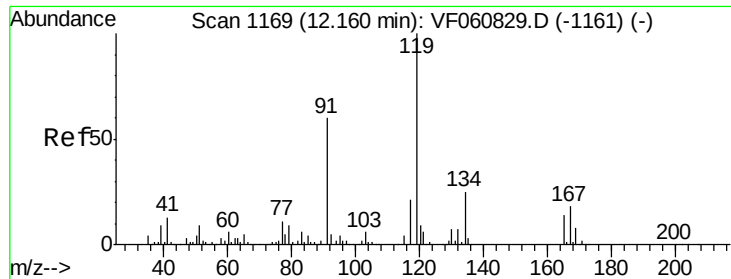
apatel
12/13/2018 3:41:46 PM



#82
4-Chlorotoluene
Concen: 24.432 ug/l
RT: 11.90 min Scan# 1142
Delta R.T. -0.03 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.0	14.8	44.4





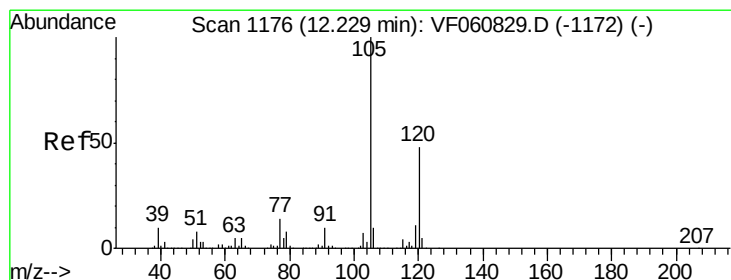
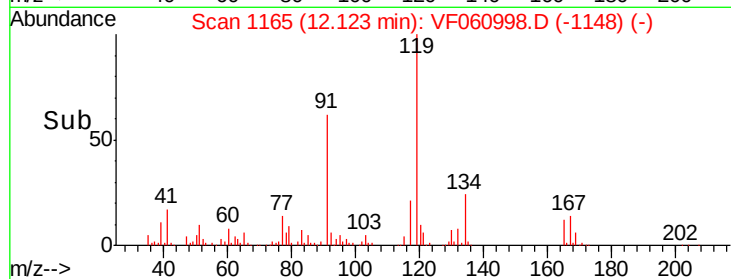
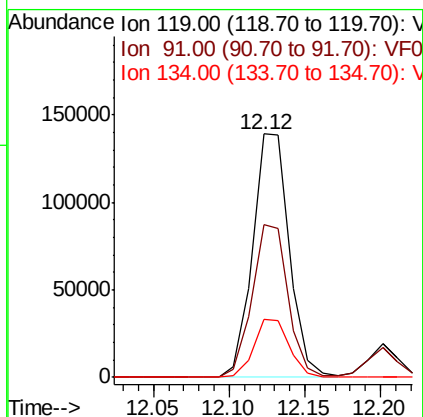
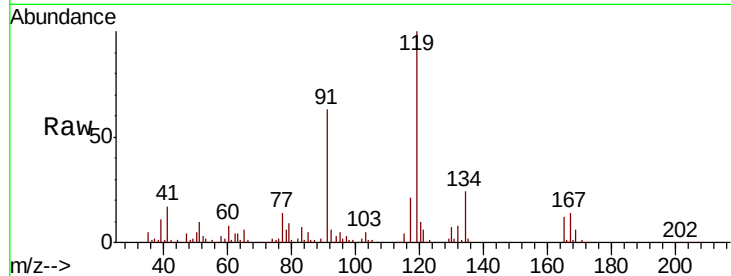
#83
tert-Butylbenzene
Concen: 25.636 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.04 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	235367		
91	62.9	30.1	90.3	
134	23.9	12.6	37.8	

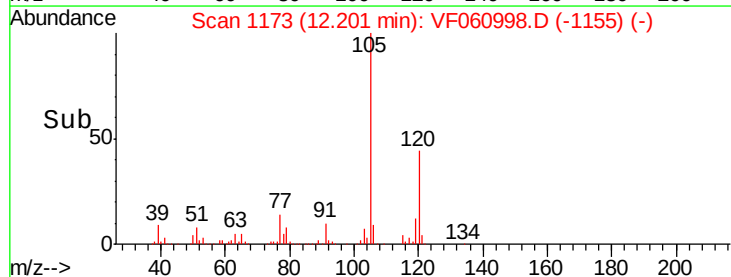
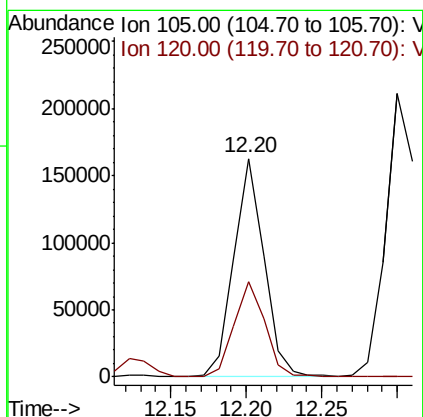
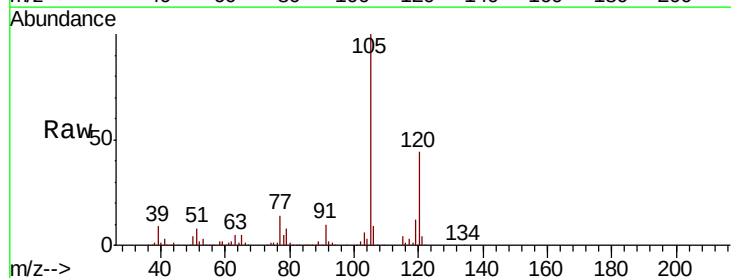
Manual Integrations
APPROVED

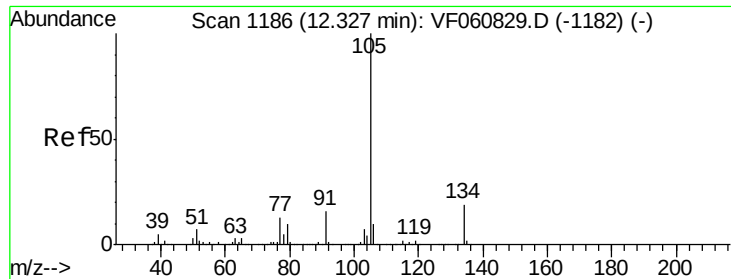
apatel
12/13/2018 3:41:46 PM



#84
1,2,4-Trimethylbenzene
Concen: 25.231 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.03 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	226955		
120	43.6	23.8	71.5	





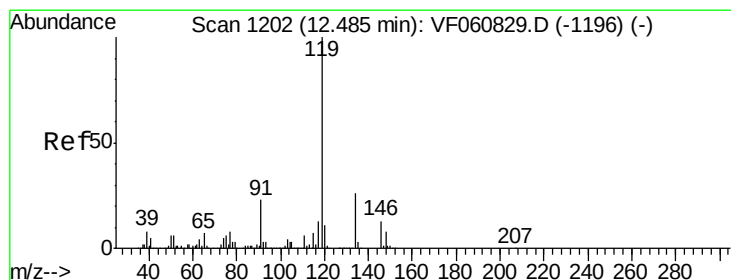
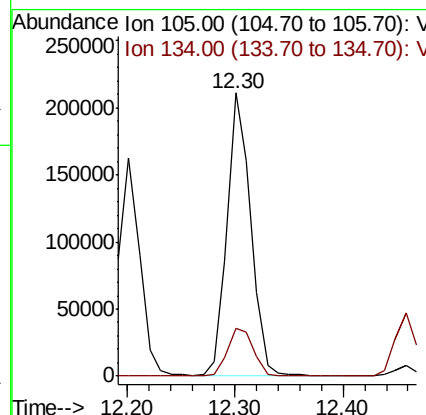
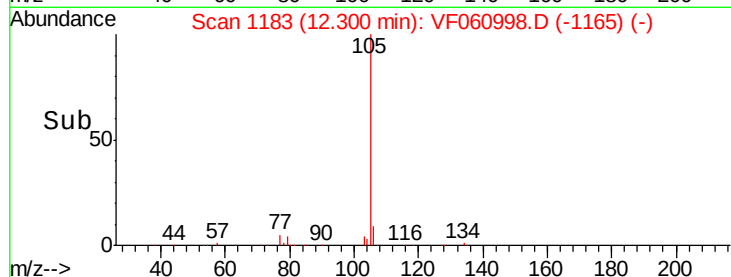
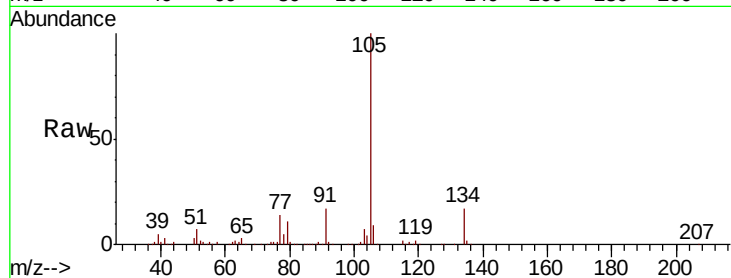
#85
 sec-Butylbenzene
 Concen: 25.612 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.03 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	321893		
134	17.1	9.5	28.5	

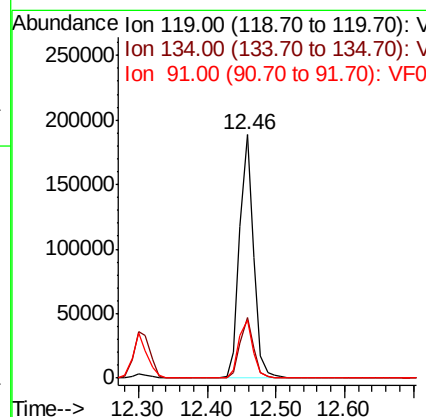
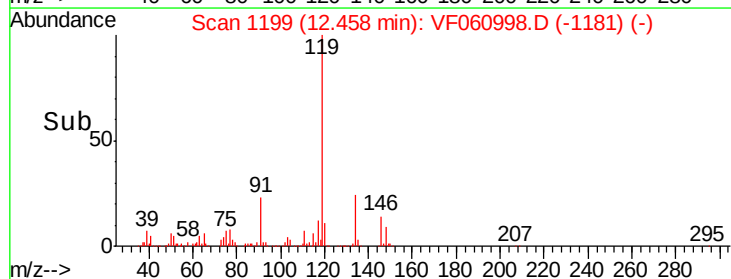
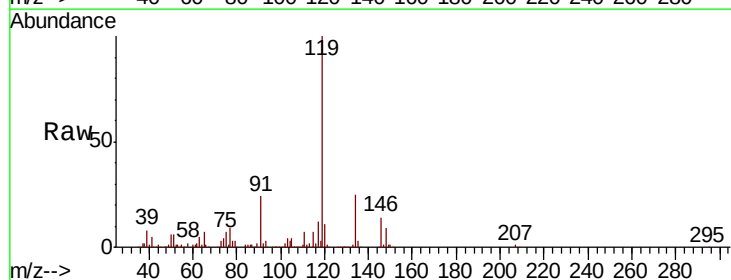
Manual Integrations
 APPROVED

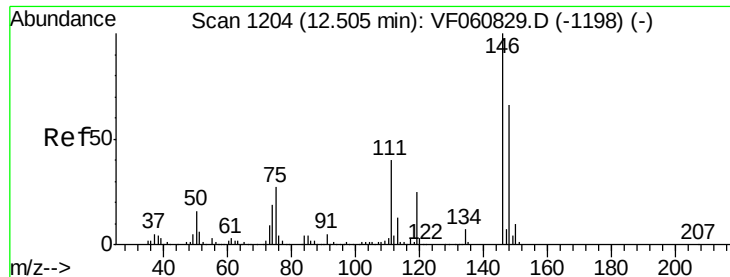
apatel
 12/13/2018 3:41:46 PM



#86
 p-Isopropyltoluene
 Concen: 25.214 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.03 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	265687		
134	25.0	12.9	38.6	
91	23.9	11.8	35.3	





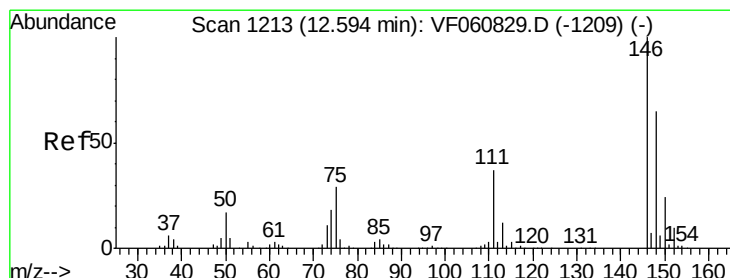
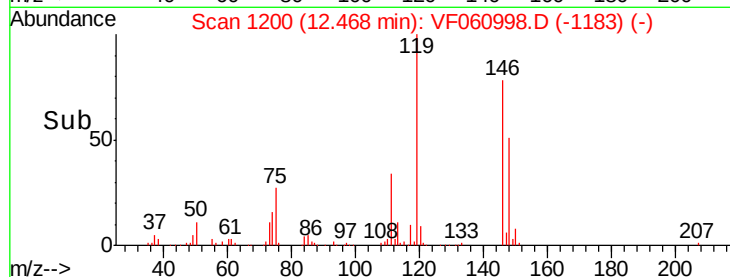
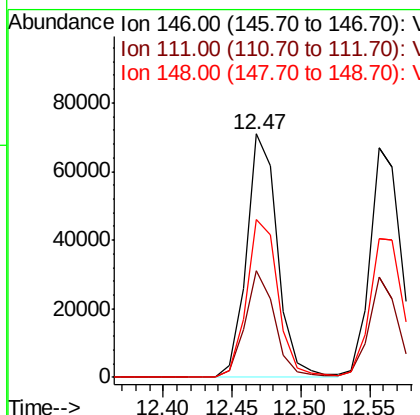
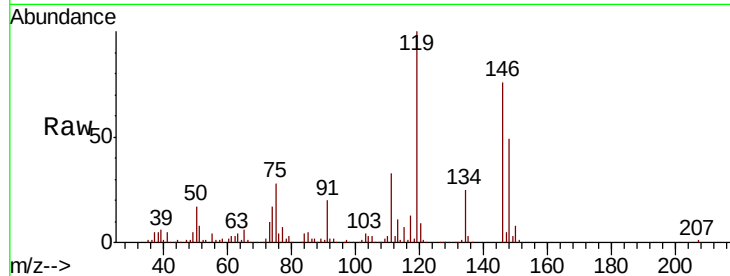
#87
 1,3-Dichlorobenzene
 Concen: 24.158 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.04 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	111849		
111	43.6	20.0	59.9	
148	64.6	32.9	98.6	

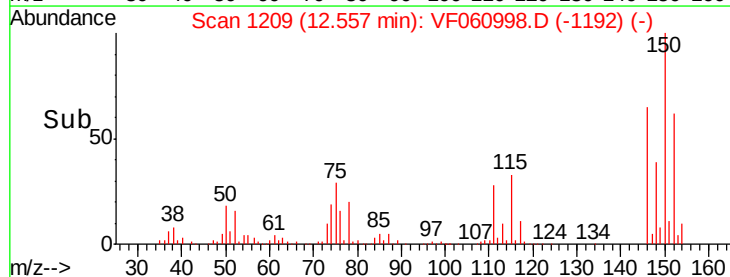
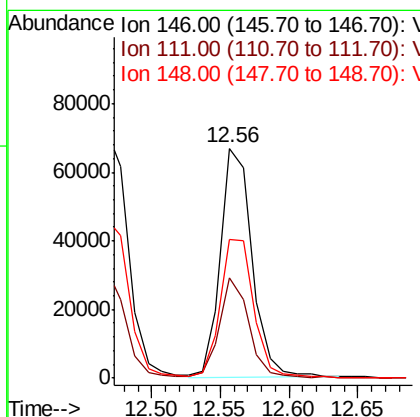
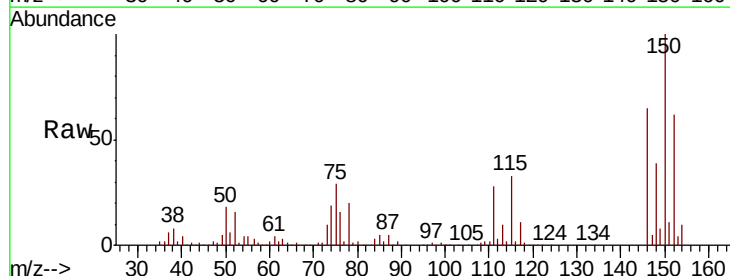
Manual Integrations
 APPROVED

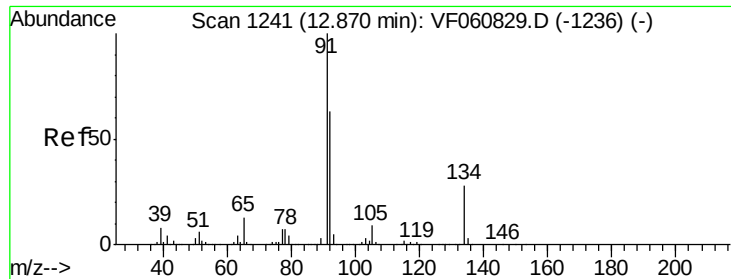
apatel
 12/13/2018 3:41:46 PM



#88
 1,4-Dichlorobenzene
 Concen: 23.656 ug/l
 RT: 12.56 min Scan# 1209
 Delta R.T. -0.04 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	106738		
111	43.4	18.9	56.7	
148	60.3	32.3	96.9	





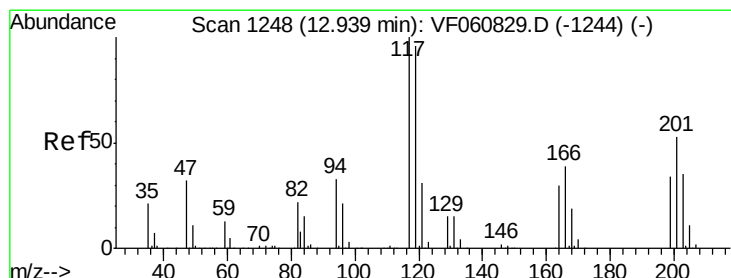
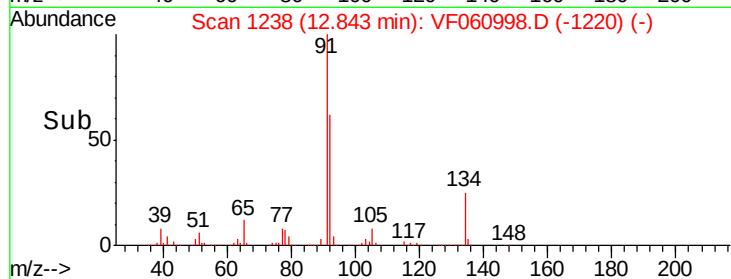
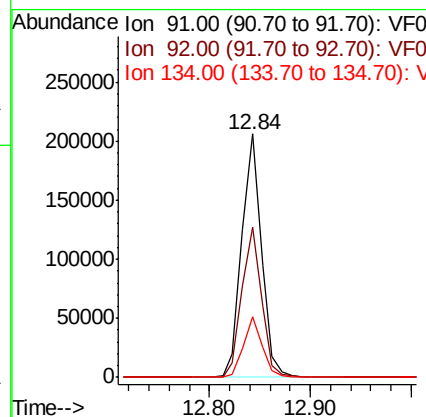
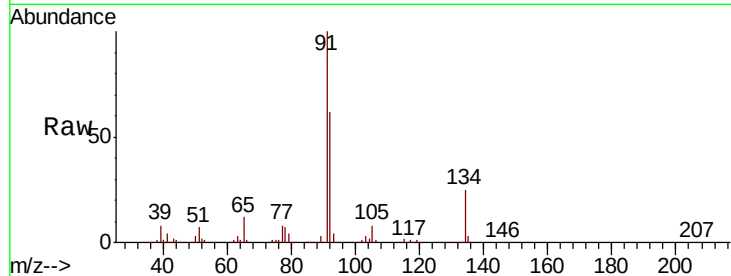
#89
n-Butylbenzene
Concen: 26.213 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.03 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	279296		
92	61.8		31.6	94.7
134	24.8		13.8	41.4

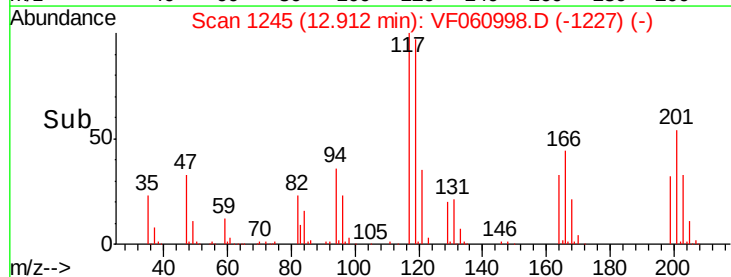
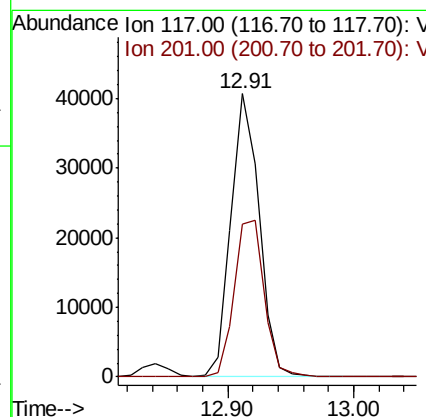
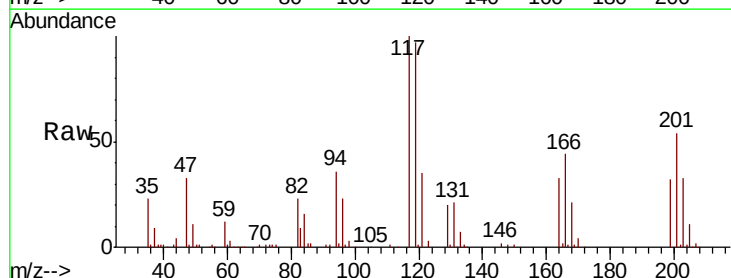
Manual Integrations
APPROVED

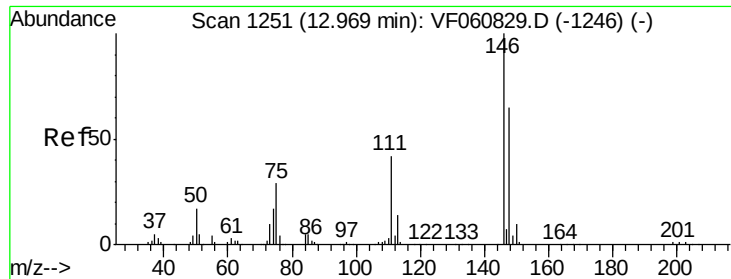
apatel
12/13/2018 3:41:46 PM



#90
Hexachloroethane
Concen: 24.813 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.03 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	62960		
201	53.8		26.7	80.1





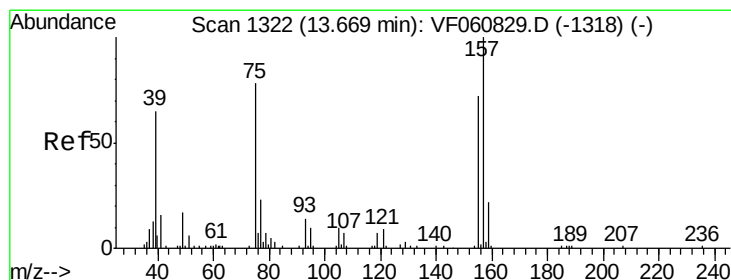
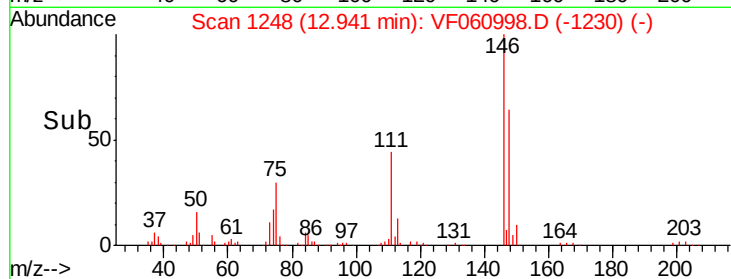
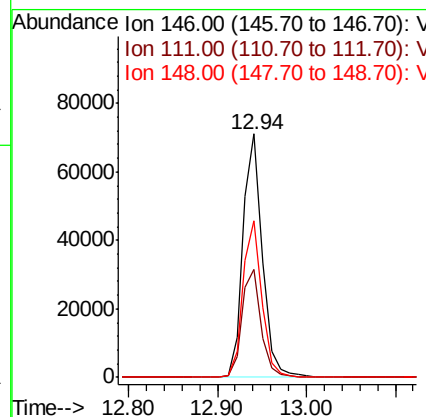
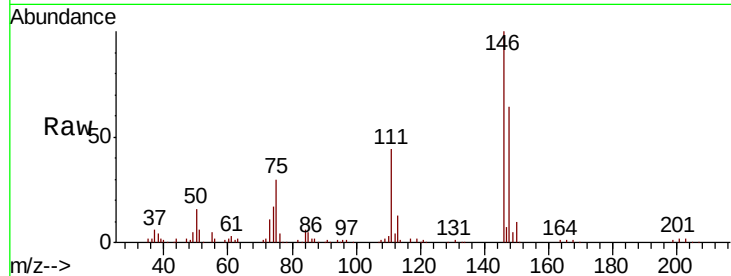
#91
 1,2-Dichlorobenzene
 Concen: 24.713 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.03 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.2	63.6
148	64.1	32.5	97.5

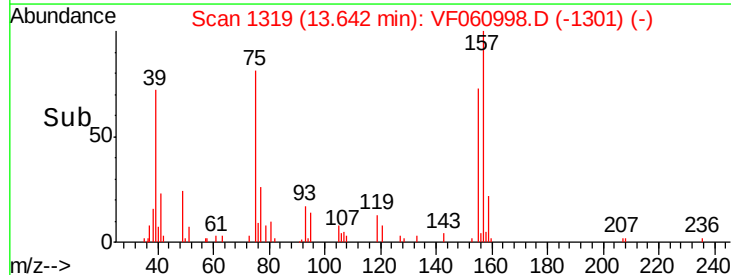
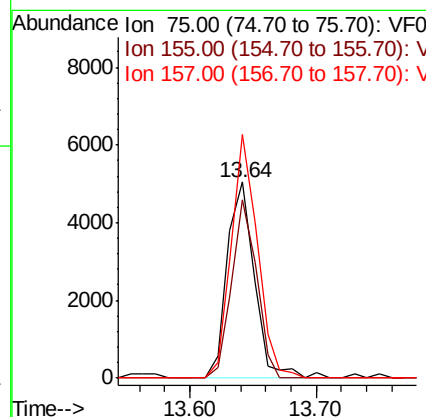
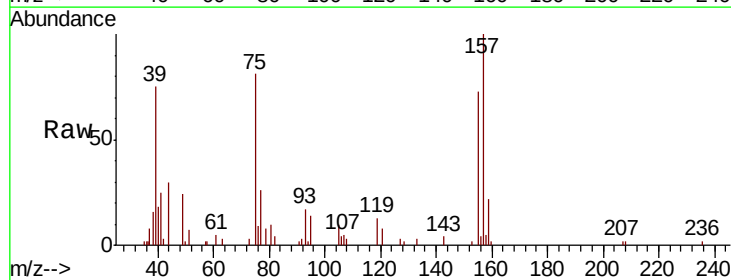
Manual Integrations
 APPROVED

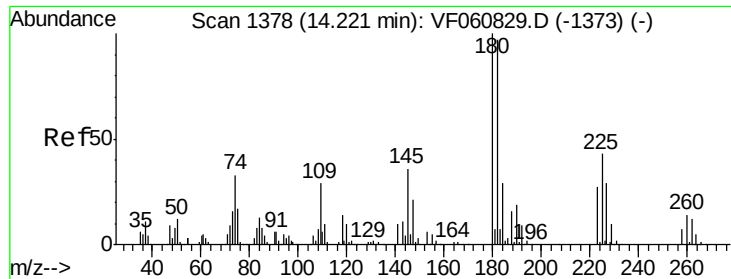
apatel
 12/13/2018 3:41:46 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.423 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.03 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.7	45.6	136.9
157	124.1	63.8	191.5





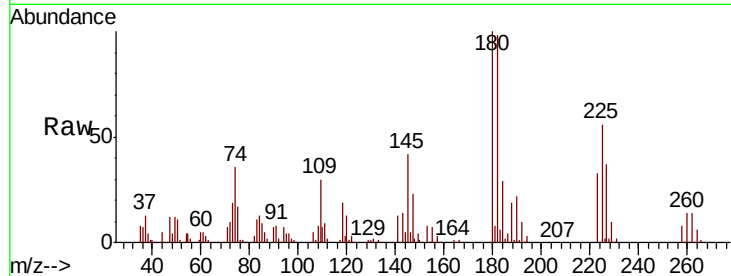
#93
 1,2,4-Trichlorobenzene
 Concen: 25.114 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.03 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	76938		
182	98.2		48.5	145.5
145	41.9		18.1	54.3

Manual Integrations
 APPROVED

apatel
 12/13/2018 3:41:46 PM

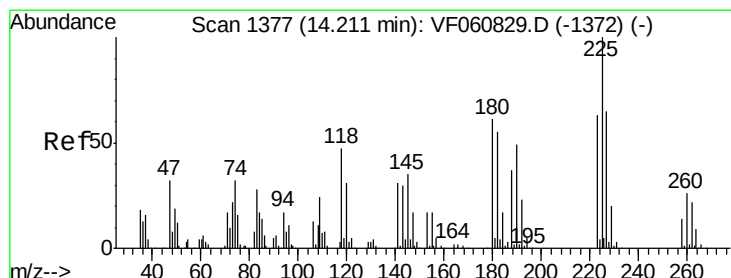
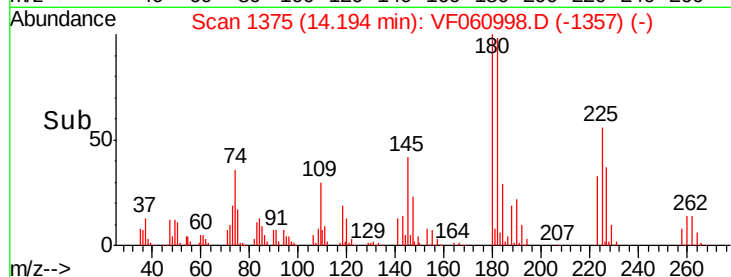
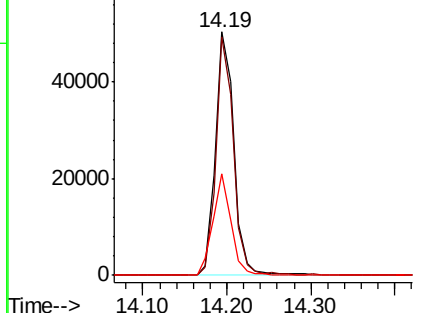


Abundance

Ion 180.00 (179.70 to 180.70): V

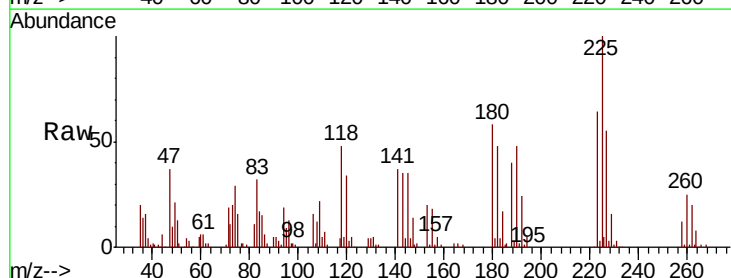
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 24.860 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VF060998.D
 Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	50770		
223	63.6		31.4	94.3
227	54.7		32.5	97.5

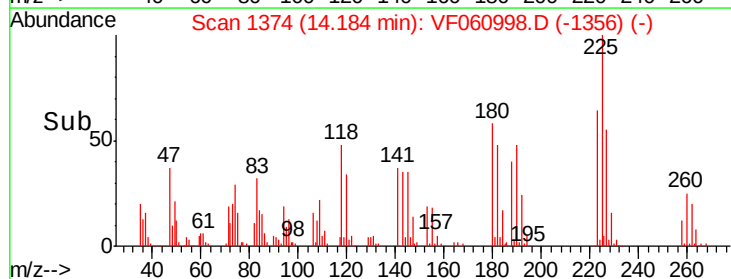
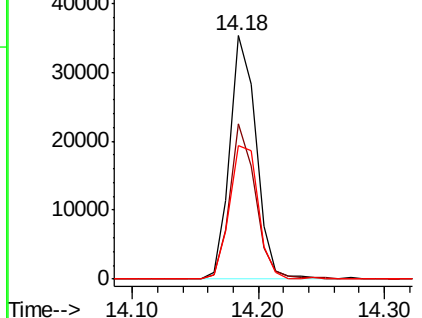


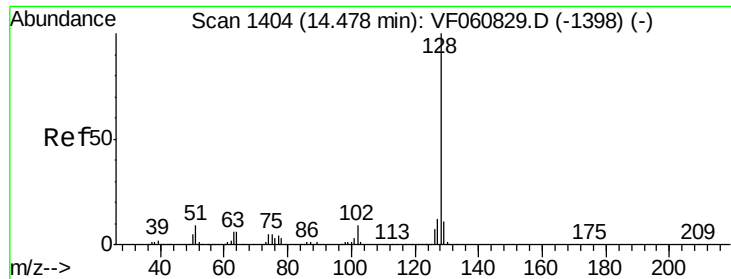
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





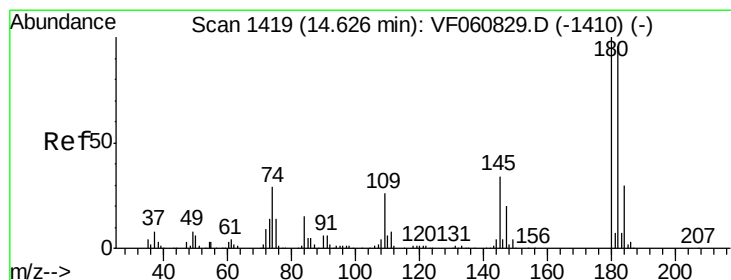
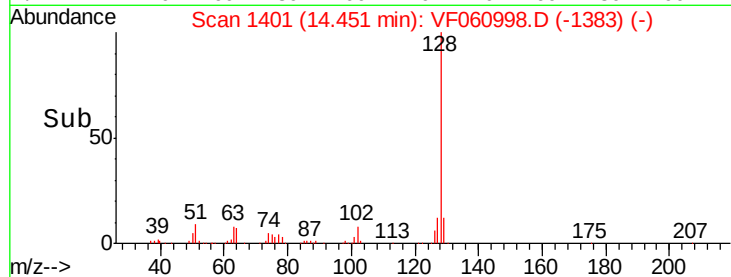
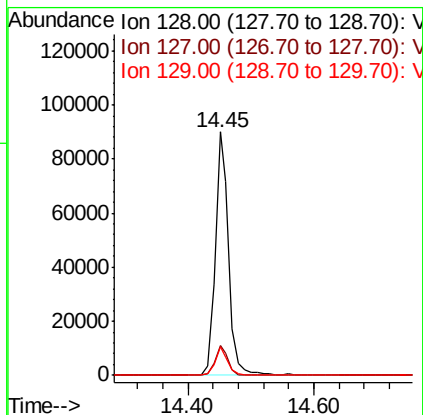
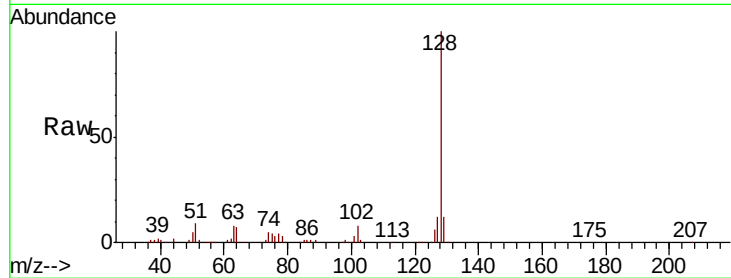
#95
Naphthalene
Concen: 20.643 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.9	14.9
129	11.7	9.1	13.7

Manual Integrations
APPROVED

apatel
12/13/2018 3:41:46 PM



#96
1,2,3-Trichlorobenzene
Concen: 24.263 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.03 min
Lab File: VF060998.D
Acq: 12 Dec 2018 16:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.9	143.8
145	38.7	17.2	51.5

