

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059429.D
 Acq On : 5 Jul 2018 12:58
 Operator : VA/AP
 Sample : VF0705SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Manual Integrations
 APPROVED

apatel
 7/6/2018 10:00:31 AM

Quant Time: Jul 06 05:29:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	265074	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.72	114	384700	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.88	117	400239	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	258378	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	159082	46.45	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	92.90%	
35) Dibromofluoromethane	4.26	113	139202	49.52	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	99.04%	
50) Toluene-d8	7.68	98	326832	46.96	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	93.92%	
62) 4-Bromofluorobenzene	11.48	95	184176	46.91	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	93.82%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	54421	22.471	ug/l	91
3) Chloromethane	1.07	50	29987	18.431	ug/l	91
4) Vinyl Chloride	1.13	62	31881	19.907	ug/l	93
5) Bromomethane	1.33	94	19265	18.249	ug/l	98
6) Chloroethane	1.42	64	15785	19.569	ug/l	100
7) Trichlorofluoromethane	1.47	101	67933m	21.451	ug/l	
8) Diethyl Ether	1.68	74	15614	19.229	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.88	101	35942	19.443	ug/l	95
10) Methyl Iodide	1.95	142	68404	20.292	ug/l	93
11) Tert butyl alcohol	2.66	59	24504	107.476	ug/l	94
12) 1,1-Dichloroethene	1.84	96	34596	22.138	ug/l	95
13) Acrolein	2.07	56	12153	100.204	ug/l	97
14) Allyl chloride	2.17	41	66897	22.804	ug/l	98
15) Acrylonitrile	3.04	53	44213	110.120	ug/l	91
16) Acetone	2.31	43	111731	125.555	ug/l	98
17) Carbon Disulfide	1.86	76	73786	20.072	ug/l #	94
18) Methyl Acetate	2.43	43	34284	21.517	ug/l #	91
19) Methyl tert-butyl Ether	2.52	73	133811	22.956	ug/l	96
20) Methylene Chloride	2.25	84	43195m	17.720	ug/l	
21) trans-1,2-Dichloroethene	2.38	96	36329	21.792	ug/l	98
22) Diisopropyl ether	2.91	45	152564	23.485	ug/l	95
23) Vinyl Acetate	3.30	43	483888	116.961	ug/l	97
24) 1,1-Dichloroethane	2.97	63	95900	23.810	ug/l	97
25) 2-Butanone	4.47	43	123901	118.145	ug/l	99
26) 2,2-Dichloropropane	3.73	77	65608	23.617	ug/l	99
27) cis-1,2-Dichloroethene	3.60	96	56731	22.414	ug/l	81
28) Bromochloromethane	3.85	49	41143	24.429	ug/l	92
29) Tetrahydrofuran	4.22	42	51526	112.088	ug/l	96
30) Chloroform	4.00	83	130034	22.301	ug/l	98
31) Cyclohexane	3.84	56	58295	22.094	ug/l #	79
32) 1,1,1-Trichloroethane	4.24	97	98521	23.089	ug/l	93
36) 1,1-Dichloropropene	4.41	75	82573	24.570	ug/l	97
37) Ethyl Acetate	4.26	43	55665	25.157	ug/l #	98
38) Carbon Tetrachloride	4.13	117	109033m	25.709	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059429.D
 Acq On : 5 Jul 2018 12:58
 Operator : VA/AP
 Sample : VF0705SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Manual Integrations
 APPROVED

apatel
 7/6/2018 10:00:31 AM

Quant Time: Jul 06 05:29:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.59	83	69741	23.418	ug/l	95
40) Benzene	4.77	78	170025	22.818	ug/l	99
41) Methacrylonitrile	4.88	41	25884	22.579	ug/l #	95
42) 1,2-Dichloroethane	5.07	62	104025	23.891	ug/l	99
43) Isopropyl Acetate	7.08	43	63502	22.685	ug/l #	81
44) Trichloroethene	5.64	130	60777	23.777	ug/l	98
45) 1,2-Dichloropropane	6.37	63	48271	22.674	ug/l	98
46) Dibromomethane	6.22	93	42887	23.210	ug/l	99
47) Bromodichloromethane	6.51	83	109664	24.518	ug/l	99
48) Methyl methacrylate	6.84	41	43751	23.320	ug/l	99
49) 1,4-Dioxane	6.83	88	4012	374.162	ug/l #	80
51) 4-Methyl-2-Pentanone	8.38	43	255188	123.051	ug/l	99
52) Toluene	7.75	92	118098	21.181	ug/l	91
53) t-1,3-Dichloropropene	8.40	75	106404	26.098	ug/l	97
54) cis-1,3-Dichloropropene	7.42	75	104425	23.580	ug/l	91
55) 1,1,2-Trichloroethane	8.60	97	51046	23.580	ug/l	93
56) Ethyl methacrylate	8.73	69	58548	21.832	ug/l	97
57) 1,3-Dichloropropane	8.97	76	87077	23.453	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.75	63	23337	116.031	ug/l	100
59) 2-Hexanone	9.60	43	203579	122.017	ug/l	99
60) Dibromochloromethane	8.83	129	78584	23.513	ug/l	95
61) 1,2-Dibromoethane	9.11	107	59939	22.830	ug/l	88
64) Tetrachloroethene	8.27	164	61758	23.791	ug/l	97
65) Chlorobenzene	9.90	112	165629	22.333	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.04	131	72607	22.636	ug/l	95
67) Ethyl Benzene	10.00	91	283694	22.548	ug/l	97
68) m/p-Xylenes	10.24	106	203814	45.513	ug/l	96
69) o-Xylene	10.80	106	114558	22.871	ug/l	95
70) Styrene	10.87	104	175459	22.996	ug/l	96
71) Bromoform	10.86	173	50716	23.068	ug/l	96
73) Isopropylbenzene	11.21	105	353303	23.471	ug/l	98
74) N-amyl acetate	11.44	43	123144	22.544	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	83640	22.002	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	63299	22.074	ug/l	99
77) Bromobenzene	11.57	156	93325	22.347	ug/l	94
78) n-propylbenzene	11.66	91	409463	22.650	ug/l	92
79) 2-Chlorotoluene	11.79	91	252436	22.856	ug/l	99
80) 1,3,5-Trimethylbenzene	11.89	105	308434	23.392	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.93	75	34387	20.148	ug/l	95
82) 4-Chlorotoluene	11.96	91	258305	21.835	ug/l	94
83) tert-Butylbenzene	12.19	119	308040	23.358	ug/l	94
84) 1,2,4-Trimethylbenzene	12.27	105	311229	22.412	ug/l	100
85) sec-Butylbenzene	12.37	105	409382	23.419	ug/l	98
86) p-Isopropyltoluene	12.52	119	344642	23.493	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	173001	22.567	ug/l	96
88) 1,4-Dichlorobenzene	12.62	146	165897	22.244	ug/l	97
89) n-Butylbenzene	12.90	91	358575	24.078	ug/l	97
90) Hexachloroethane	12.97	117	85666	23.430	ug/l	77
91) 1,2-Dichlorobenzene	13.00	146	171063	22.563	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.70	75	16381	19.438	ug/l	98

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF070518\
Data File : VF059429.D
Acq On : 5 Jul 2018 12:58
Operator : VA/AP
Sample : VF0705SBS01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

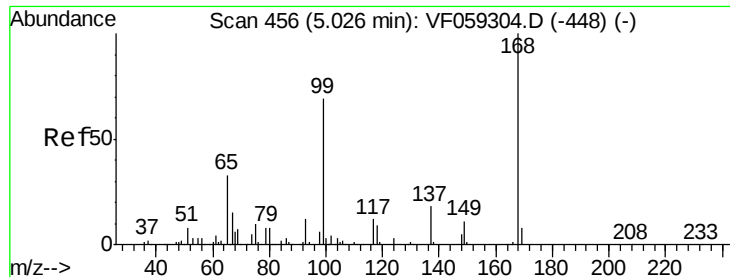
Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM

Quant Time: Jul 06 05:29:35 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	132260	23.593	ug/l	97
94) Hexachlorobutadiene	14.24	225	75118	23.990	ug/l	90
95) Naphthalene	14.51	128	258182	22.012	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	118815	22.373	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion:168 Resp: 265074

Ion Ratio Lower Upper

168 100

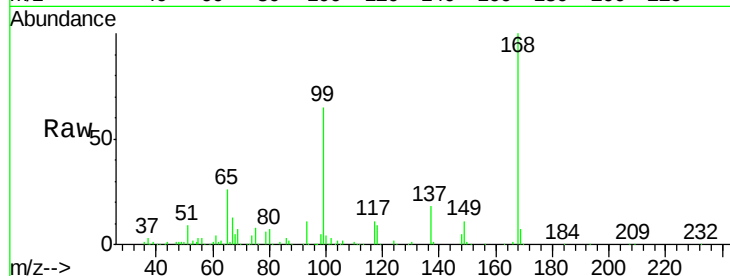
99 64.9 54.9 82.3

Manual Integrations

APPROVED

apatel

7/6/2018 10:00:31 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.01

100000

80000

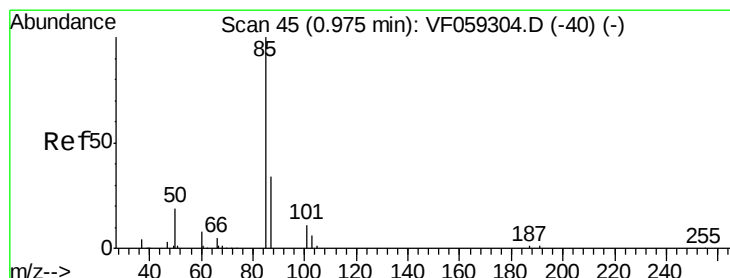
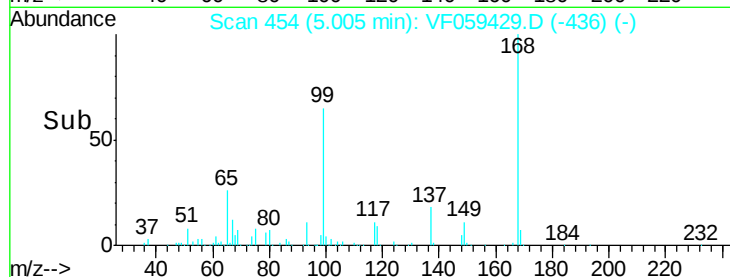
60000

40000

20000

0

Time--> 4.80 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 22.471 ug/l

RT: 0.97 min Scan# 45

Delta R.T. -0.00 min

Lab File: VF059429.D

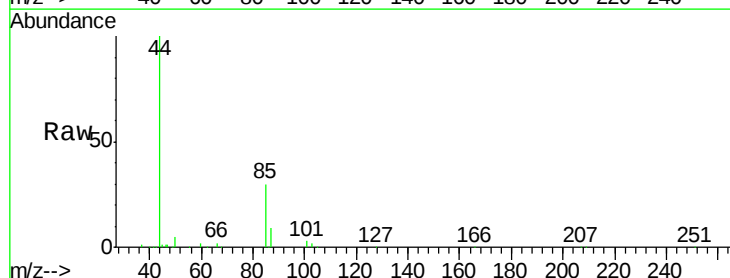
Acq: 5 Jul 2018 12:58

Tgt Ion: 85 Resp: 54421

Ion Ratio Lower Upper

85 100

87 29.0 17.1 51.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

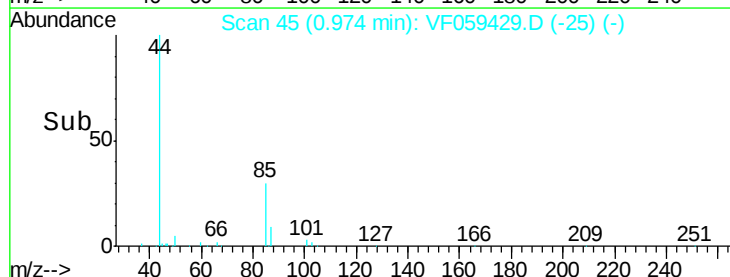
15000

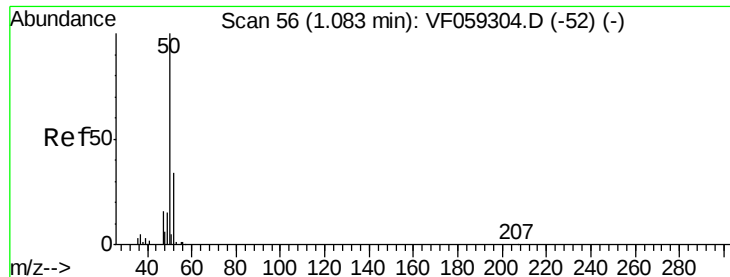
10000

5000

0

Time--> 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 18.431 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 50 Resp: 29987

Ion Ratio Lower Upper

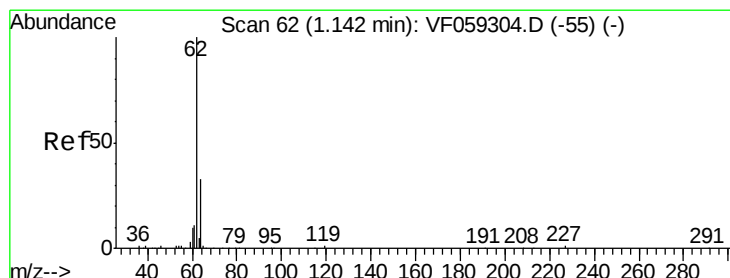
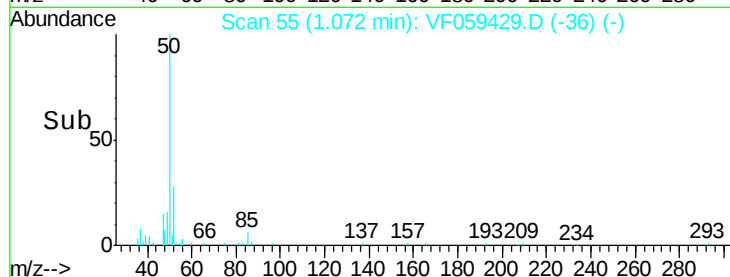
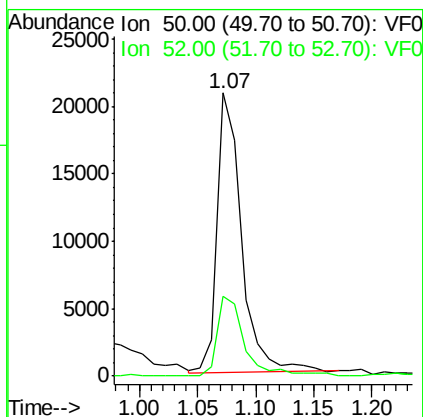
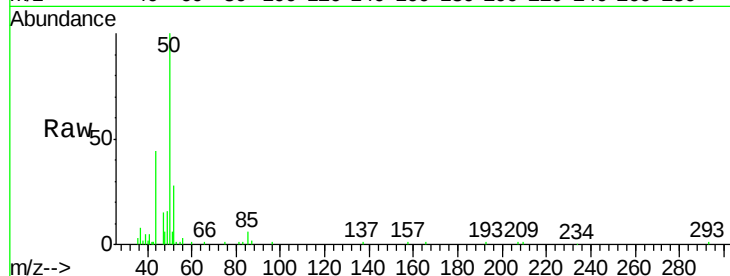
50 100

52 28.2 26.7 40.1

Manual Integrations
APPROVED

apatel

7/6/2018 10:00:31 AM



#4

Vinyl Chloride

Concen: 19.907 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.01 min

Lab File: VF059429.D

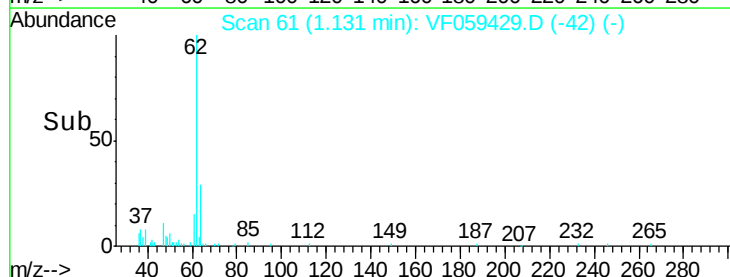
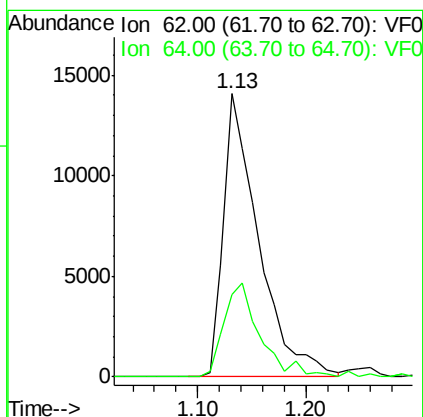
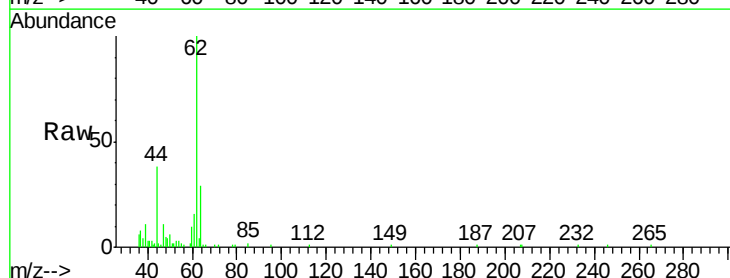
Acq: 5 Jul 2018 12:58

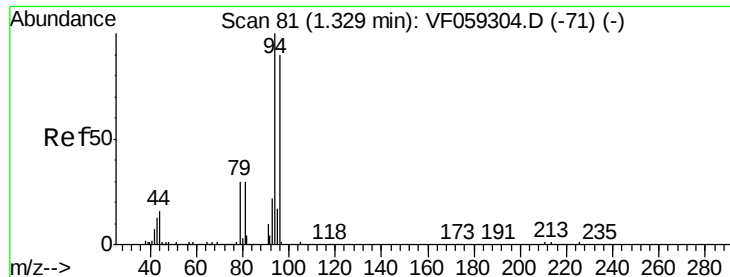
Tgt Ion: 62 Resp: 31881

Ion Ratio Lower Upper

62 100

64 28.9 26.3 39.5





#5

Bromomethane

Concen: 18.249 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 94 Resp: 19265

Ion Ratio Lower Upper

94 100

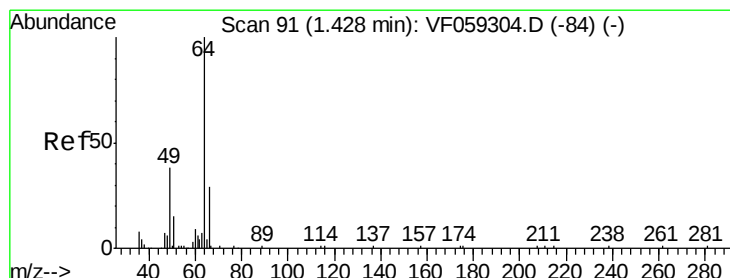
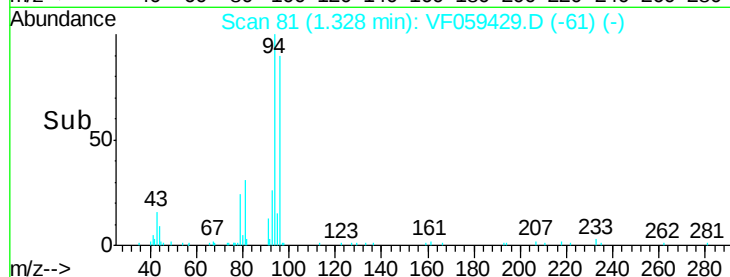
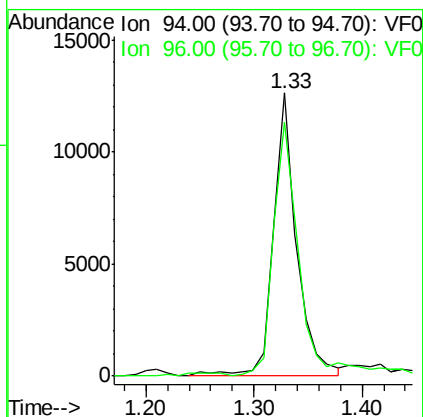
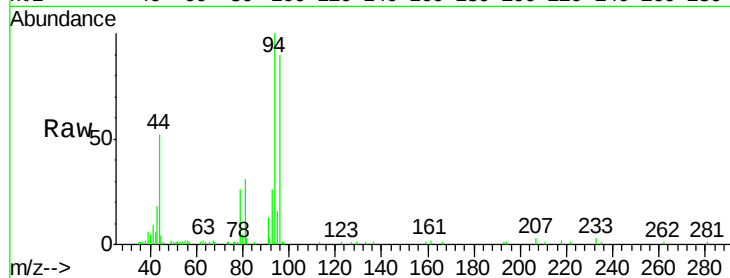
96 89.6 73.4 110.0

Manual Integrations

APPROVED

apatel

7/6/2018 10:00:31 AM



#6

Chloroethane

Concen: 19.569 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059429.D

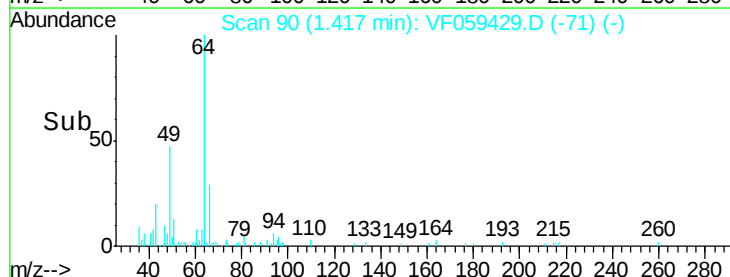
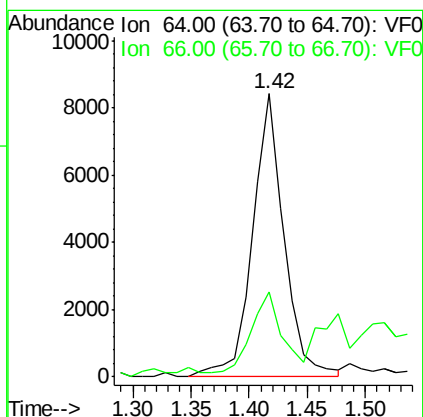
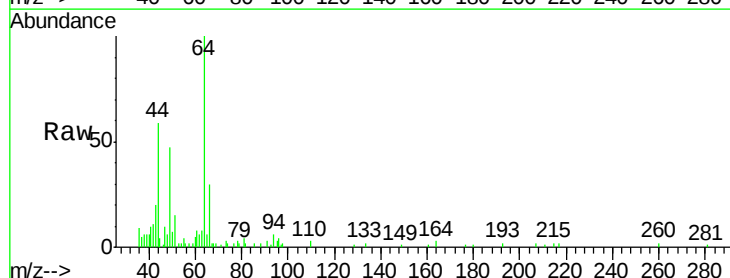
Acq: 5 Jul 2018 12:58

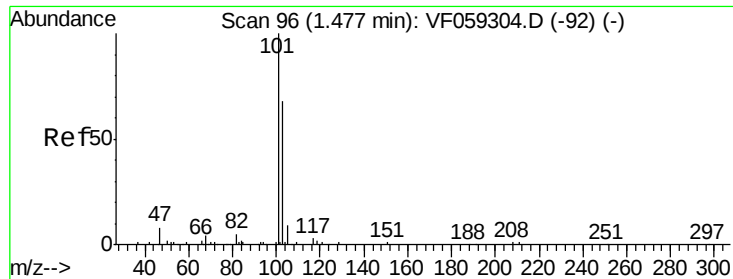
Tgt Ion: 64 Resp: 15785

Ion Ratio Lower Upper

64 100

66 30.1 23.9 35.9





#7

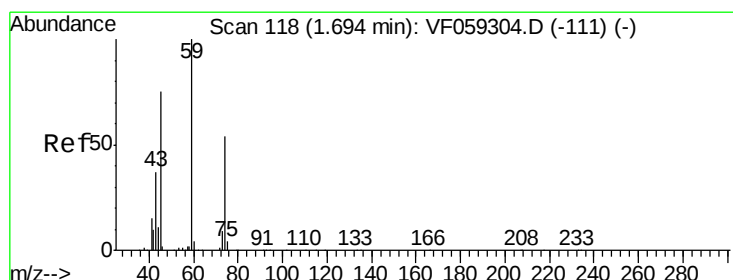
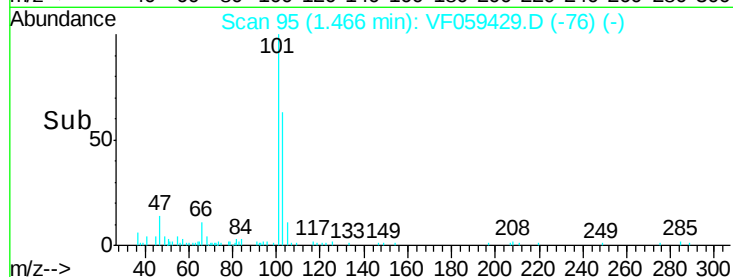
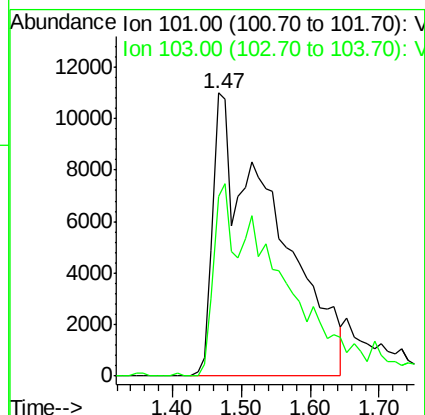
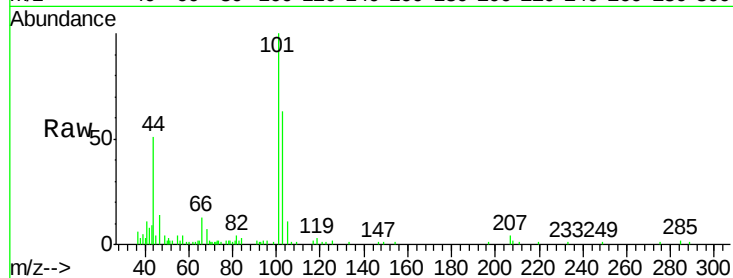
Trichlorofluoromethane
 Concen: 21.451 ug/l m
 RT: 1.47 min Scan# 95
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.4	54.2	81.2

Manual Integrations
 APPROVED

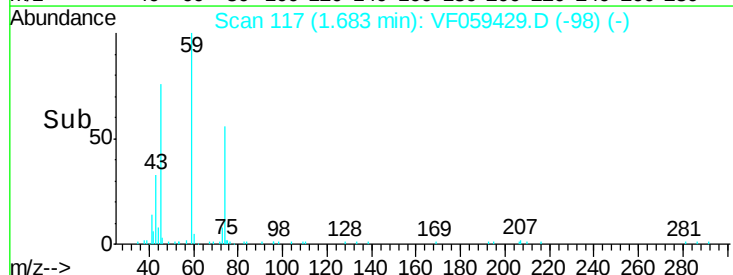
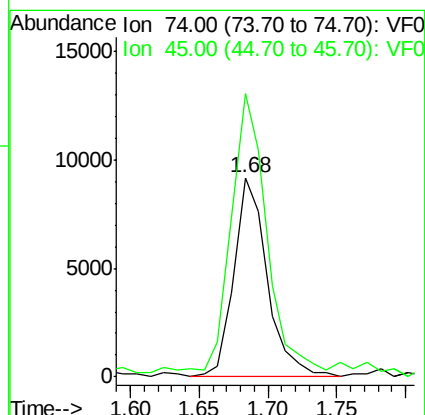
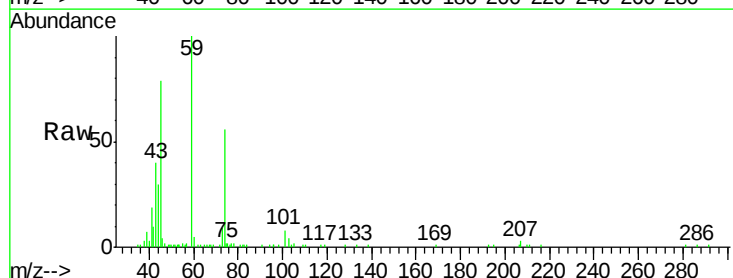
apatel
 7/6/2018 10:00:31 AM

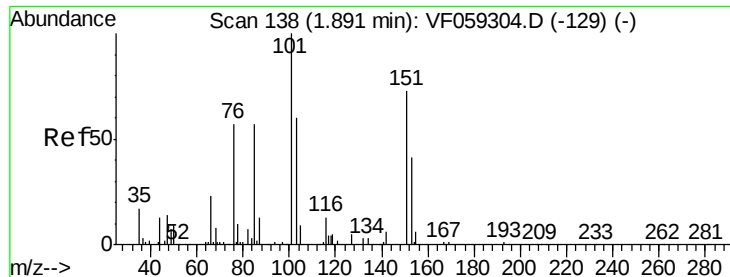


#8

Diethyl Ether
 Concen: 19.229 ug/l
 RT: 1.68 min Scan# 117
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	141.9	70.0	210.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.443 ug/l

RT: 1.88 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

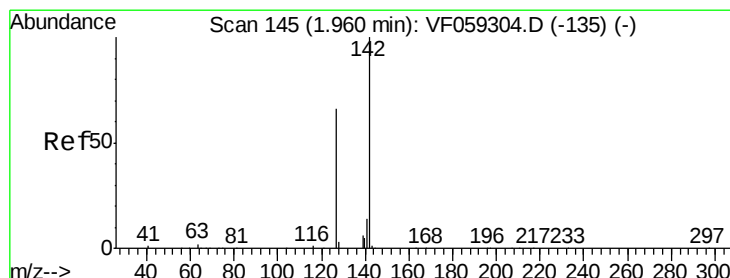
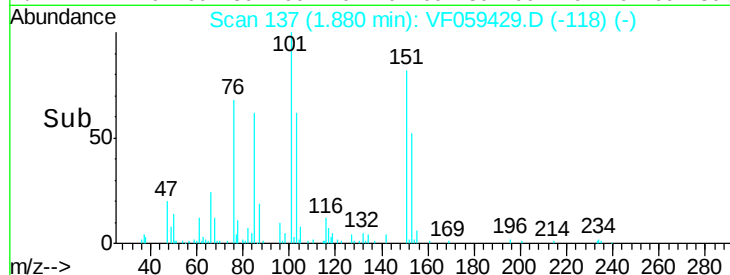
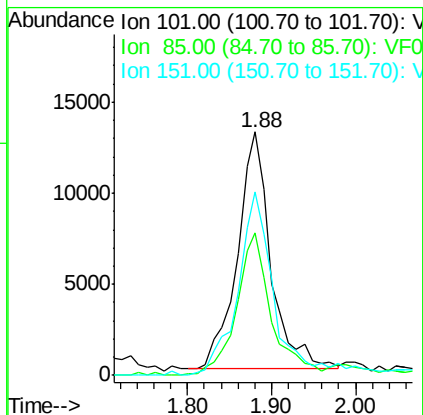
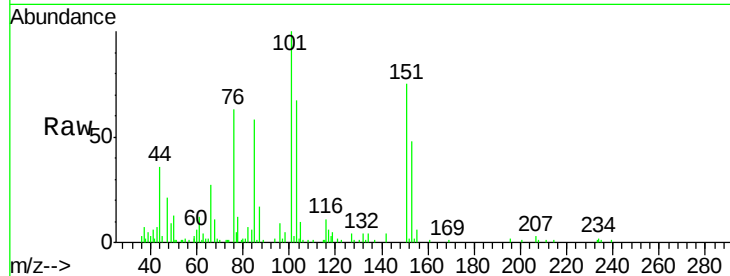
ClientSampleId :

VF0705SBS01

Tot Ion:	101	Resp:	35942
Ion Ratio	Lower	Upper	
101	100		
85	58.4	44.5	66.7
151	75.3	56.8	85.2

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#10

Methyl Iodide

Concen: 20.292 ug/l

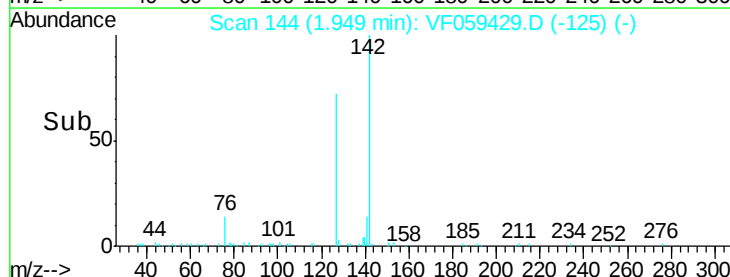
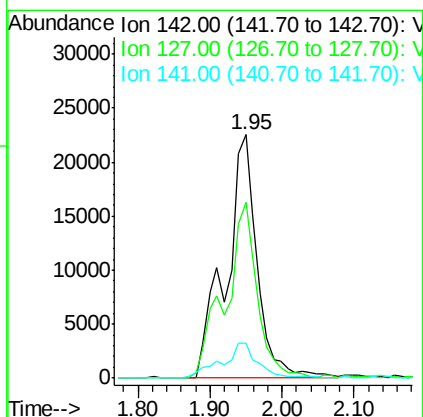
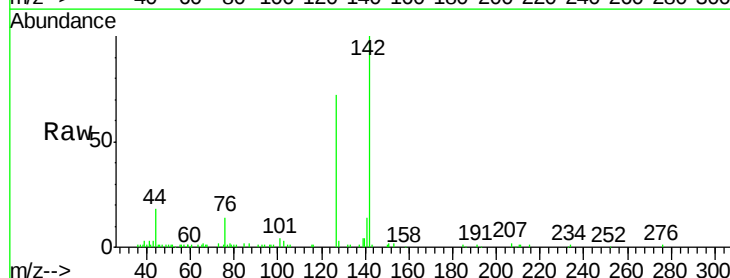
RT: 1.95 min Scan# 144

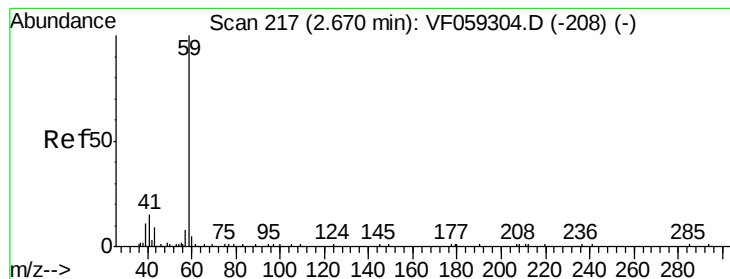
Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	142	Resp:	68404
Ion Ratio	Lower	Upper	
142	100		
127	72.1	52.5	78.7
141	14.3	11.5	17.3





#11

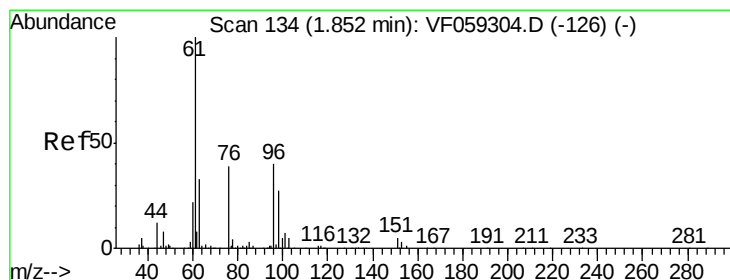
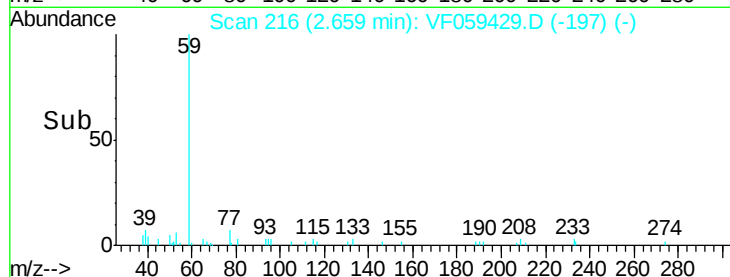
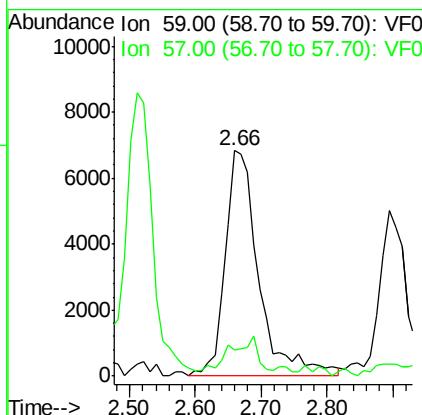
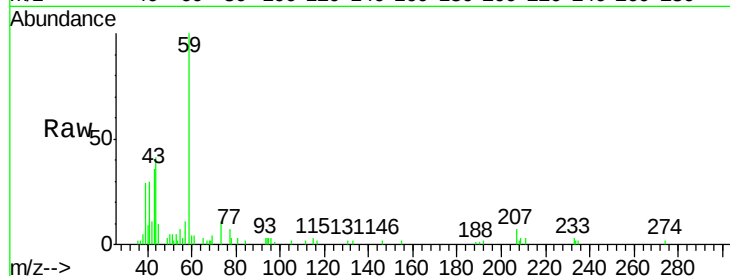
Tert butyl alcohol
Concen: 107.476 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.5	11.0	16.4

Manual Integrations
APPROVED

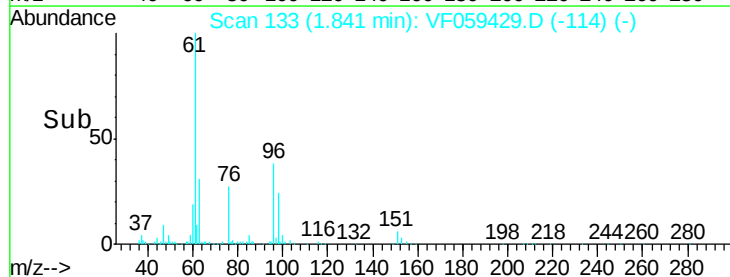
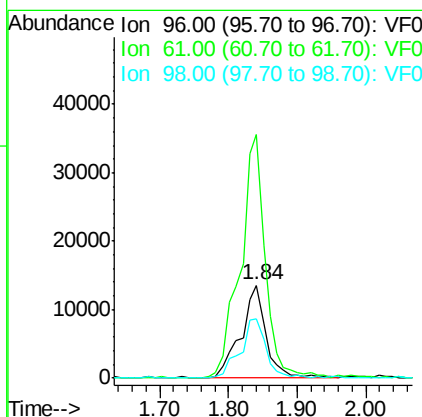
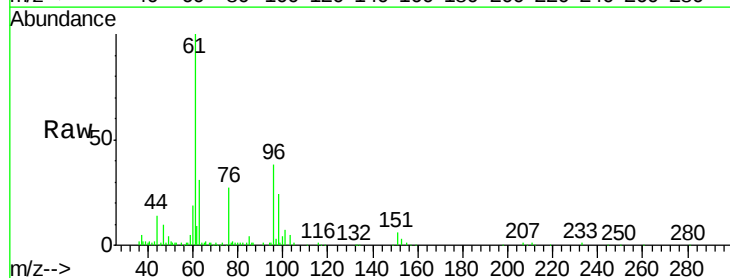
apatel
7/6/2018 10:00:31 AM

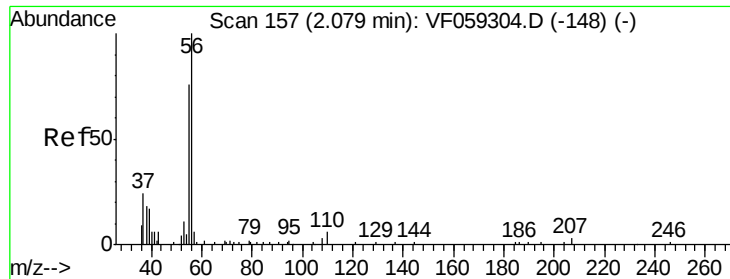


#12

1,1-Dichloroethene
Concen: 22.138 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	263.1	201.1	301.7
98	67.0	53.9	80.9





#13

Acrolein

Concen: 100.204 ug/l

RT: 2.07 min Scan# 156

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 56 Resp: 12153

Ion Ratio Lower Upper

56 100

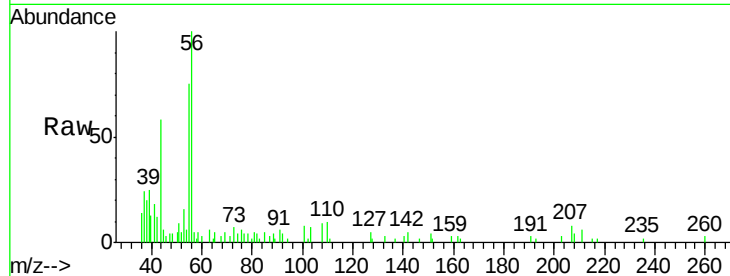
55 75.0 62.4 93.6

Manual Integrations

APPROVED

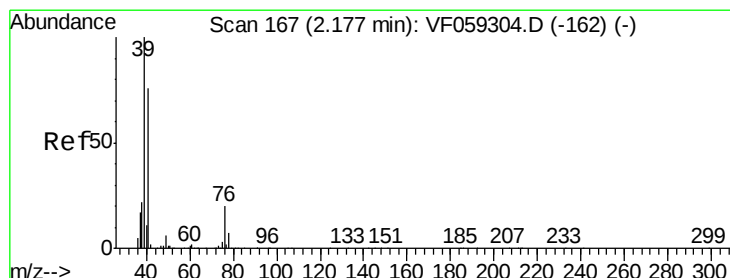
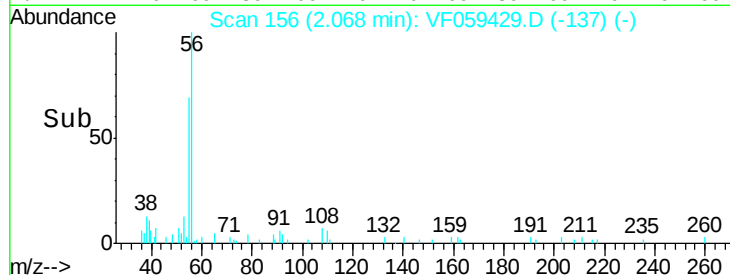
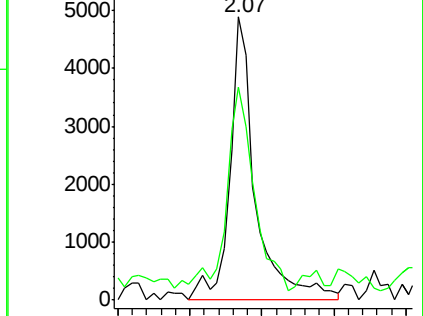
apatel

7/6/2018 10:00:31 AM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 22.804 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

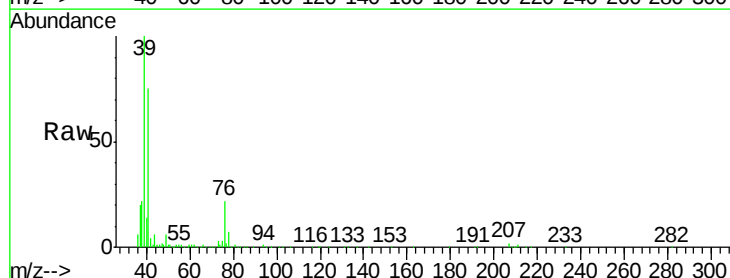
Tgt Ion: 41 Resp: 66897

Ion Ratio Lower Upper

41 100

39 133.8 105.6 158.4

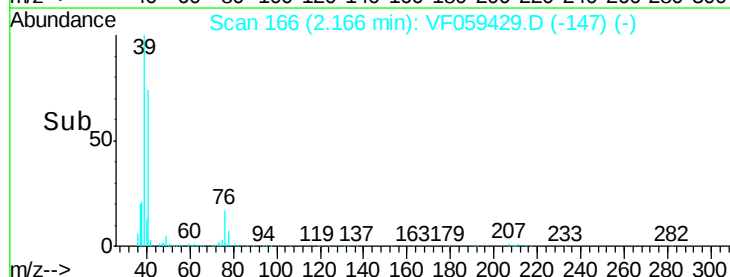
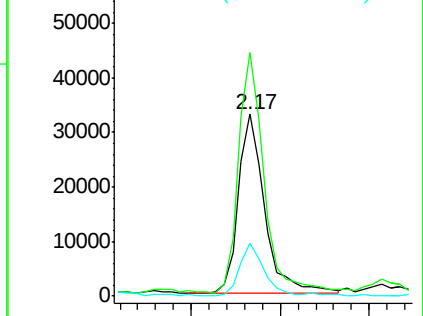
76 28.9 21.6 32.4

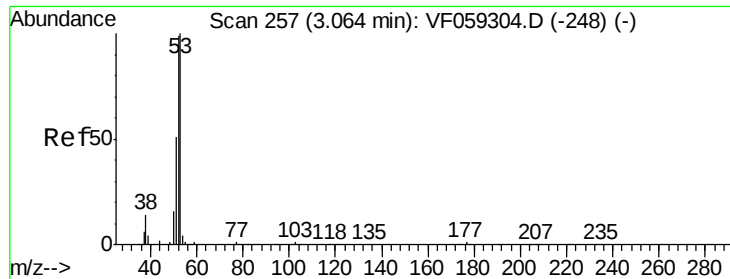


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 110.120 ug/l

RT: 3.04 min Scan# 255

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

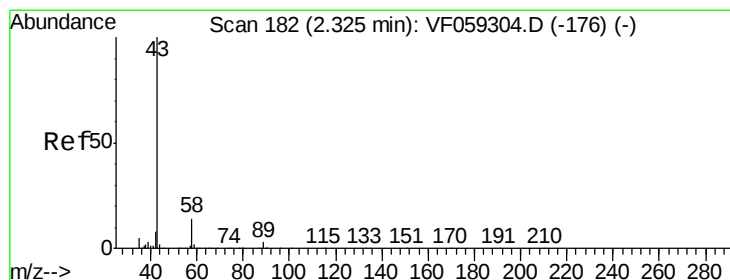
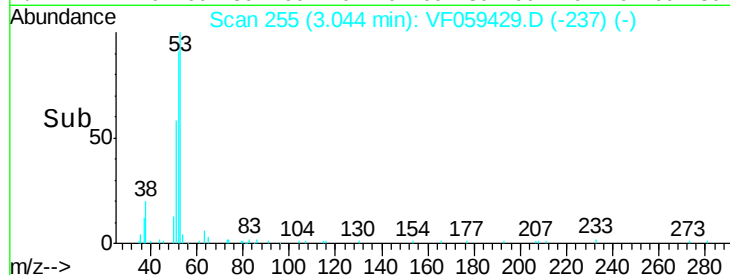
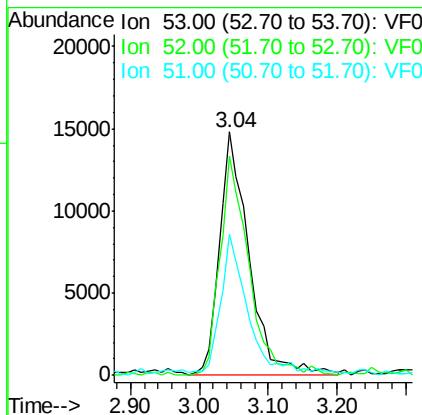
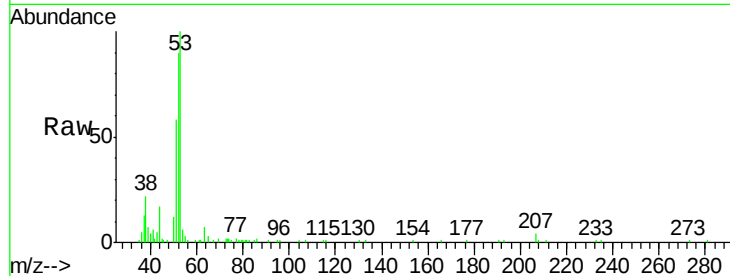
ClientSampleId :

VF0705SBS01

Tot Ion:	53	Resp:	44213
Ion	Ratio	Lower	Upper
53	100		
52	89.9	79.2	118.8
51	57.9	40.9	61.3

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#16

Acetone

Concen: 125.555 ug/l

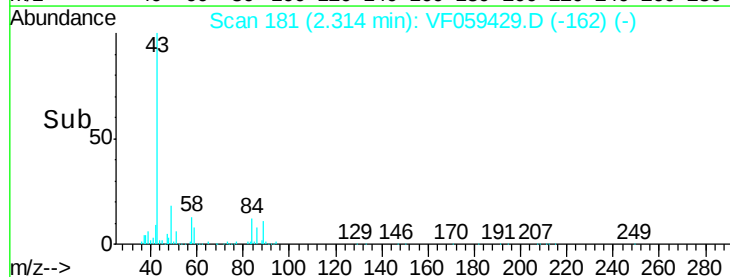
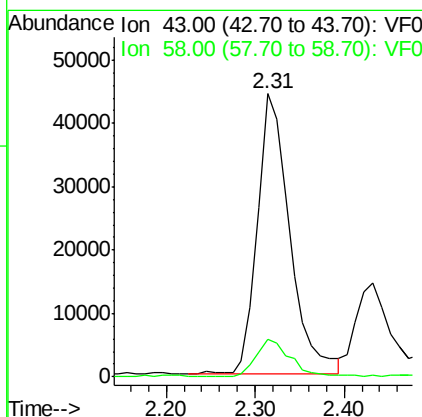
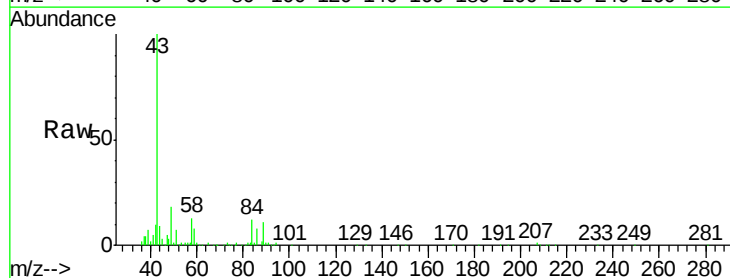
RT: 2.31 min Scan# 181

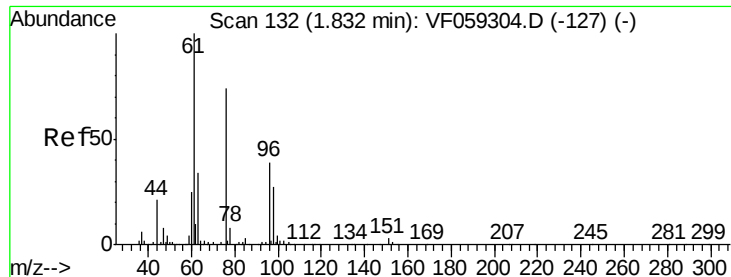
Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	43	Resp:	111731
Ion	Ratio	Lower	Upper
43	100		
58	13.2	11.4	17.0





#17

Carbon Disulfide

Concen: 20.072 ug/l

RT: 1.86 min Scan# 135

Delta R.T. 0.03 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 76 Resp: 73786

Ion Ratio Lower Upper

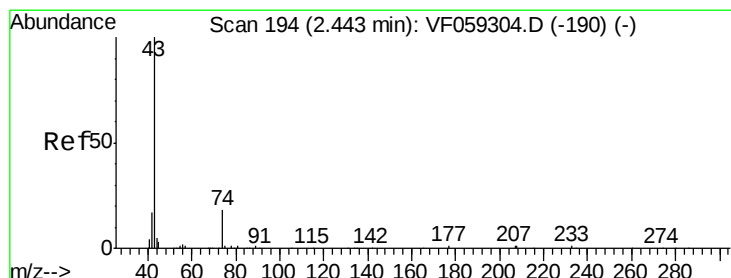
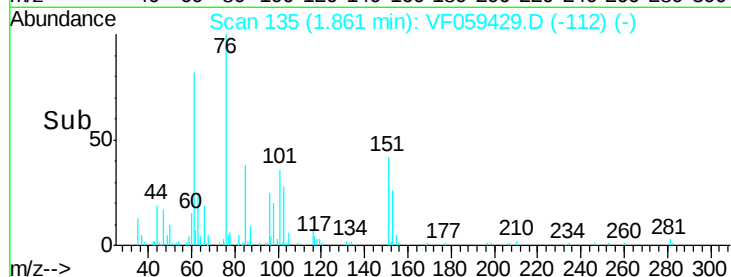
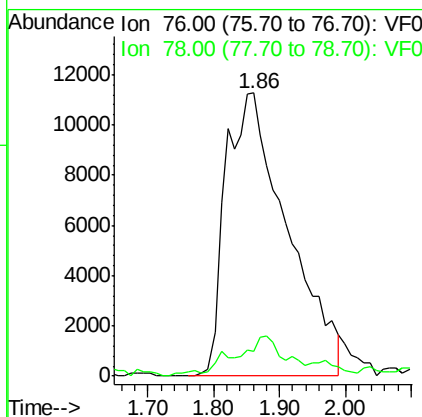
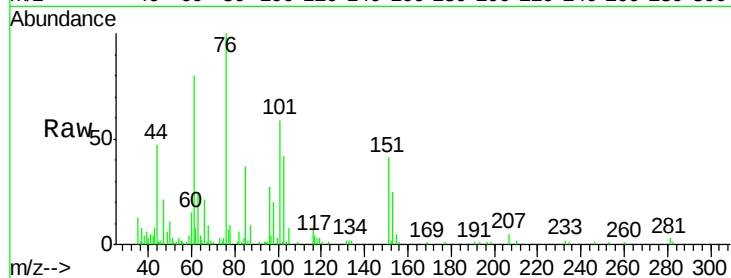
76 100

78 8.8 8.9 13.3#

Manual Integrations
APPROVED

apatel

7/6/2018 10:00:31 AM



#18

Methyl Acetate

Concen: 21.517 ug/l

RT: 2.43 min Scan# 193

Delta R.T. -0.01 min

Lab File: VF059429.D

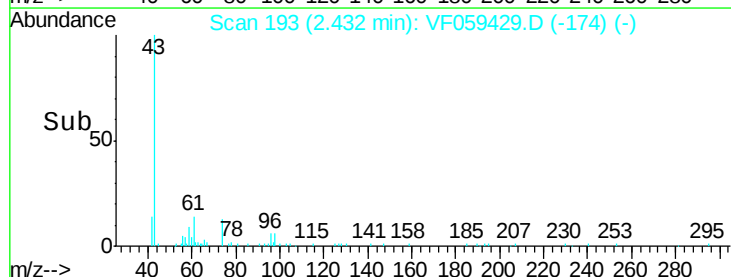
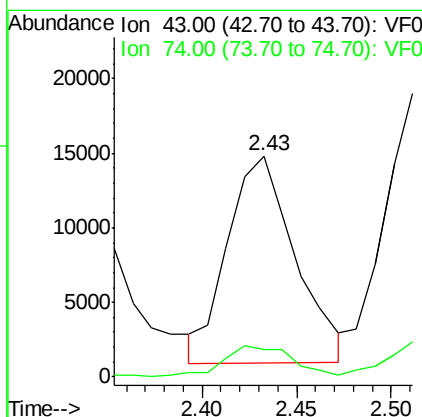
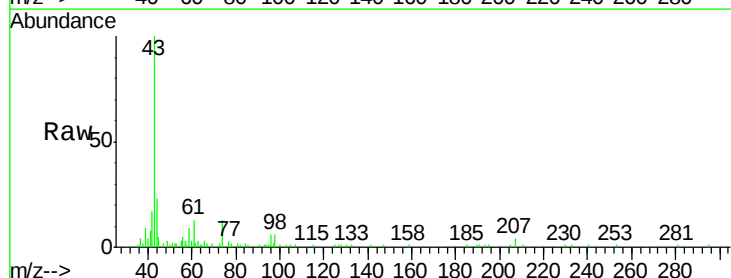
Acq: 5 Jul 2018 12:58

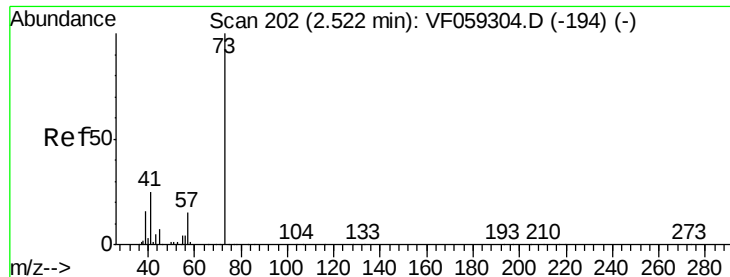
Tgt Ion: 43 Resp: 34284

Ion Ratio Lower Upper

43 100

74 12.6 13.3 19.9#





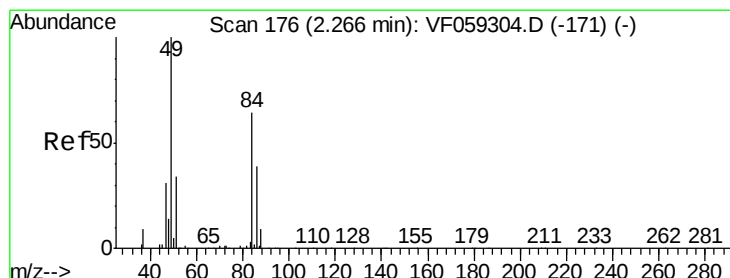
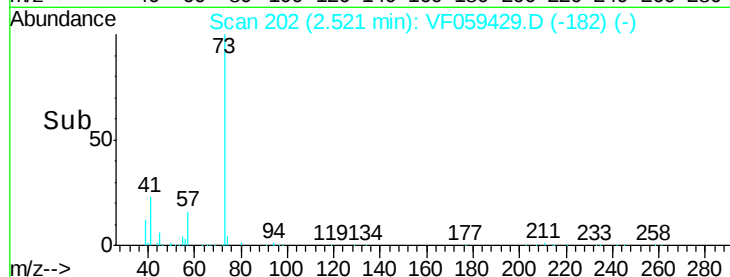
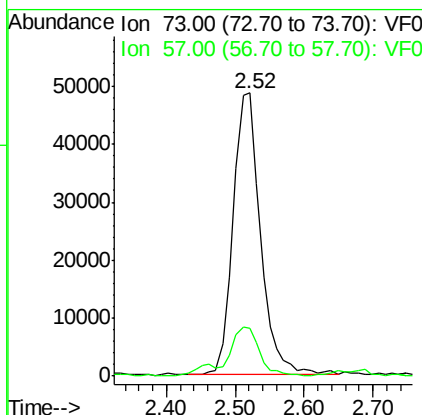
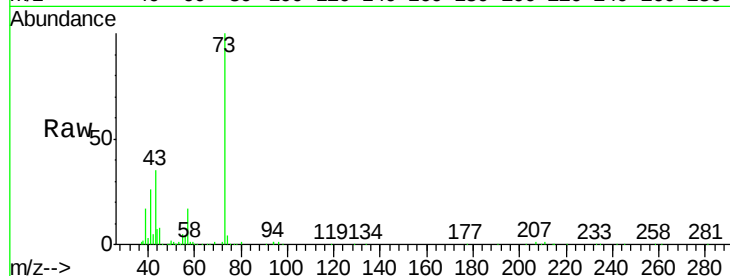
#19
Methyl tert-butyl Ether
Concen: 22.956 ug/l
RT: 2.52 min Scan# 202
Delta R.T. -0.00 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	16.9	12.3	18.5

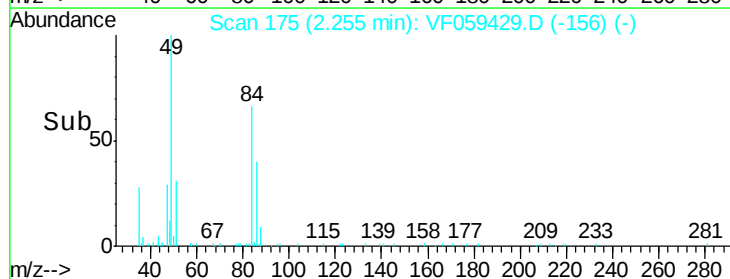
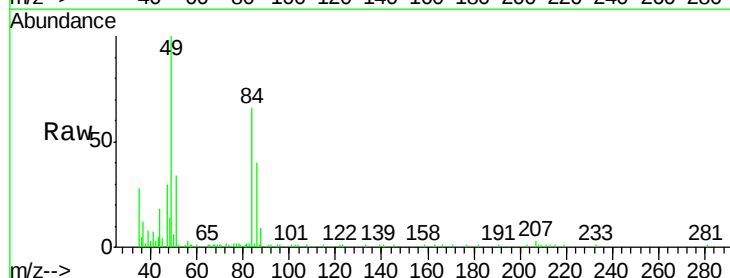
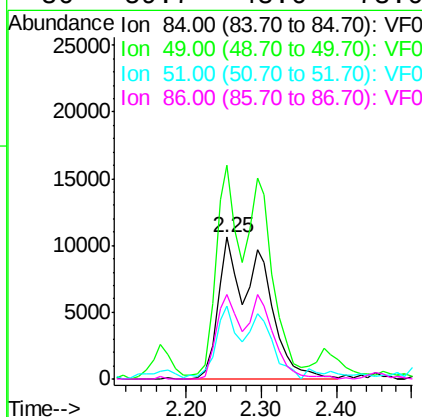
Manual Integrations
APPROVED

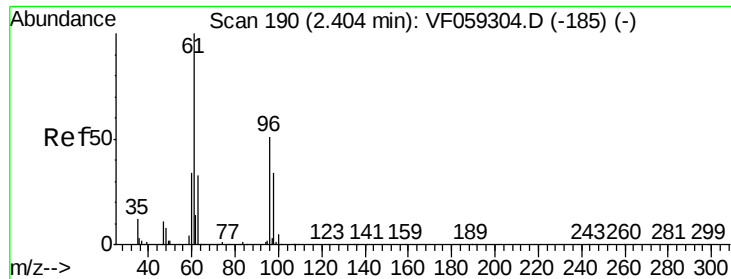
apatel
7/6/2018 10:00:31 AM



#20
Methylene Chloride
Concen: 17.720 ug/l m
RT: 2.25 min Scan# 175
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
84	100		
49	150.7	126.5	189.7
51	51.2	42.9	64.3
86	59.7	48.6	73.0





#21

trans-1,2-Dichloroethene

Concen: 21.792 ug/l

RT: 2.38 min Scan# 188

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

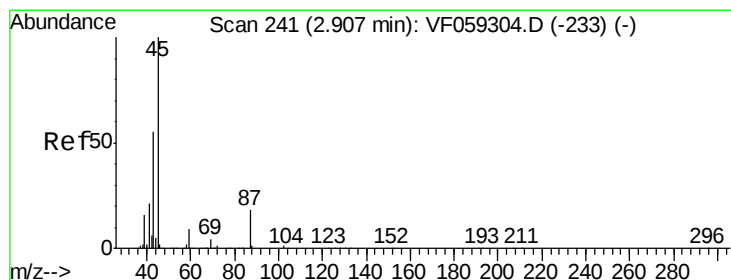
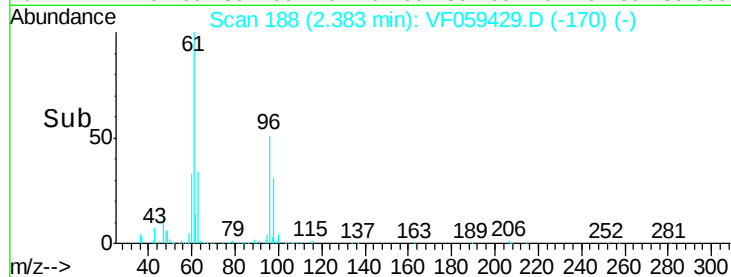
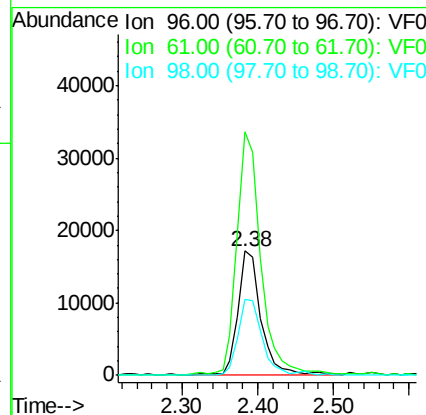
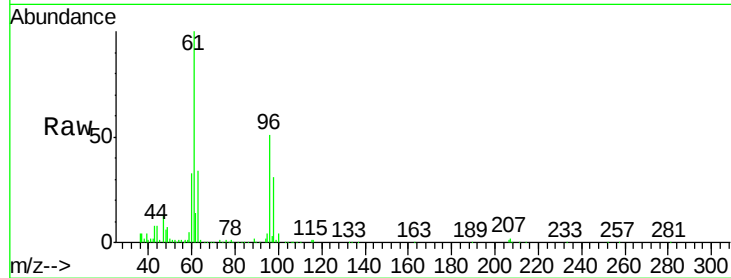
ClientSampleId :

VF0705SBS01

Tot Ion:	96	Resp:	36329
Ion	Ratio	Lower	Upper
96	100		
61	196.1	157.4	236.2
98	61.4	53.7	80.5

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#22

Diisopropyl ether

Concen: 23.485 ug/l

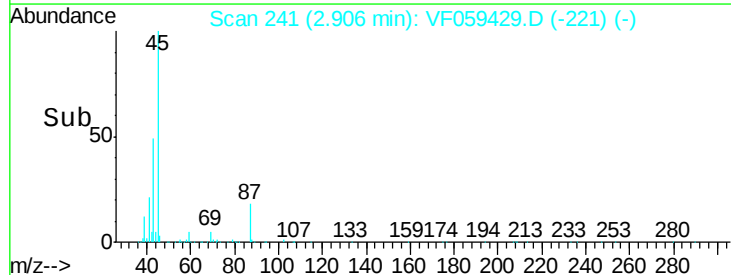
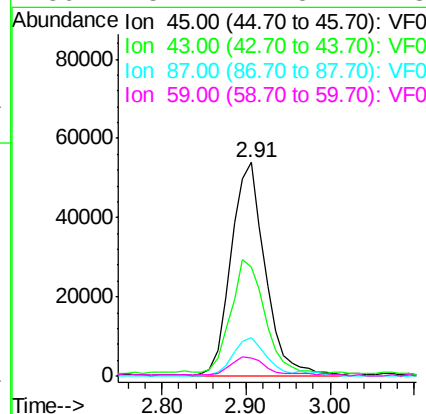
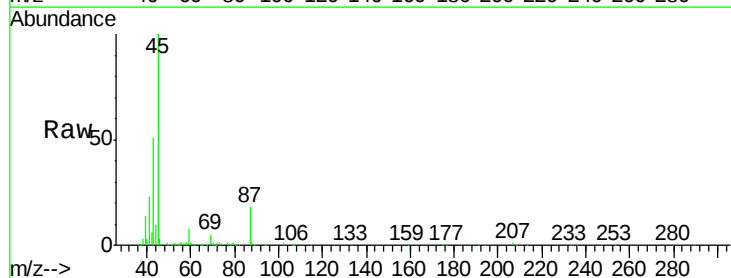
RT: 2.91 min Scan# 241

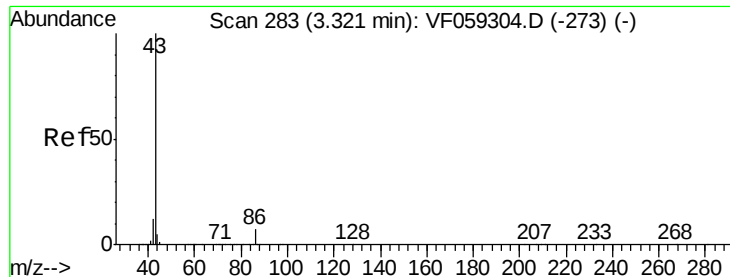
Delta R.T. -0.00 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	45	Resp:	152564
Ion	Ratio	Lower	Upper
45	100		
43	51.1	44.6	66.8
87	18.2	14.3	21.5
59	8.4	7.5	11.3





#23

Vinyl Acetate

Concen: 116.961 ug/l

RT: 3.30 min Scan# 281

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 43 Resp: 483888

Ion Ratio Lower Upper

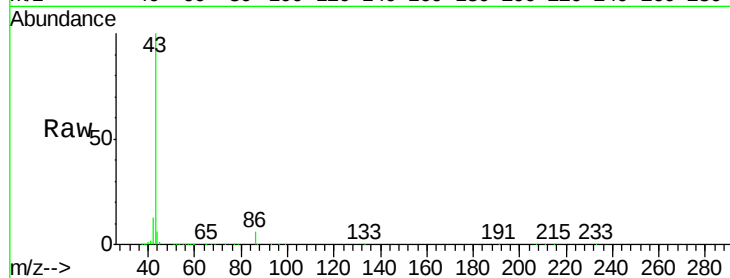
43 100

86 6.2 5.8 8.6

Manual Integrations
APPROVED

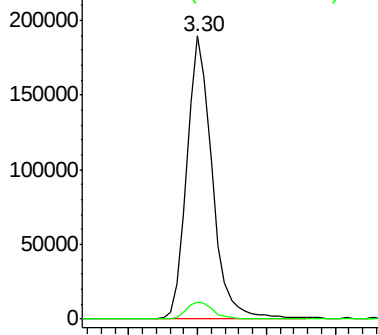
apatel

7/6/2018 10:00:31 AM

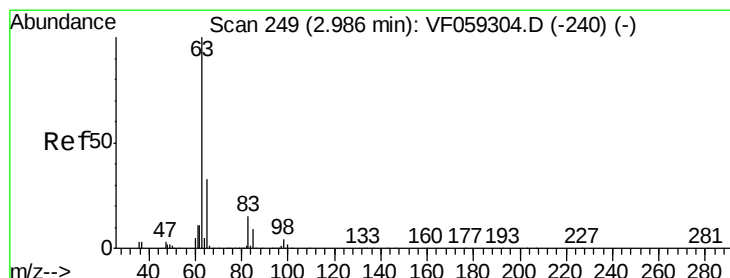
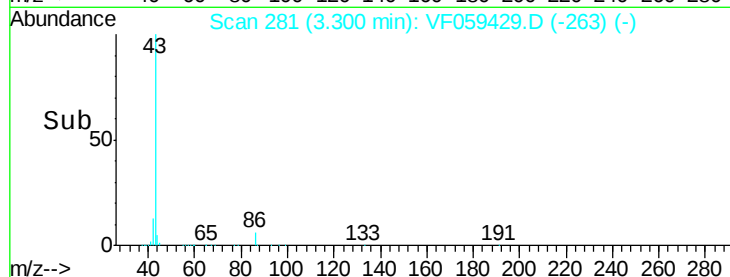


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#24

1,1-Dichloroethane

Concen: 23.810 ug/l

RT: 2.97 min Scan# 248

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

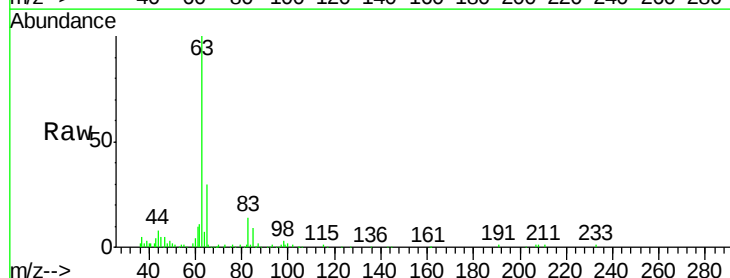
Tgt Ion: 63 Resp: 95900

Ion Ratio Lower Upper

63 100

98 3.0 2.0 6.0

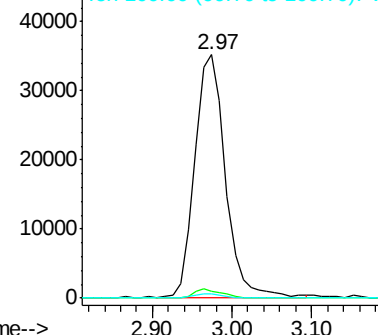
100 1.9 1.3 3.9



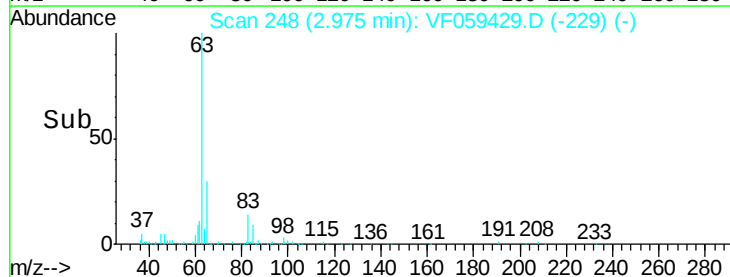
Abundance Ion 63.00 (62.70 to 63.70): VF0

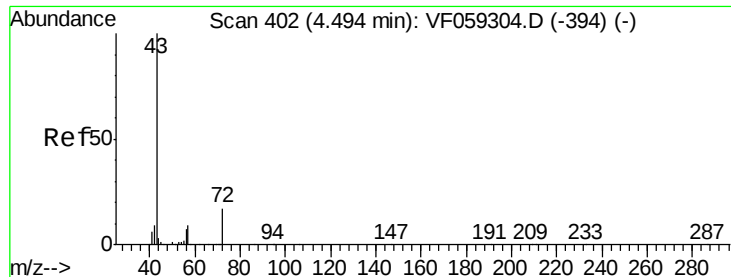
Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#25

2-Butanone

Concen: 118.145 ug/l

RT: 4.47 min Scan# 400

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 43 Resp: 123901

Ion Ratio Lower Upper

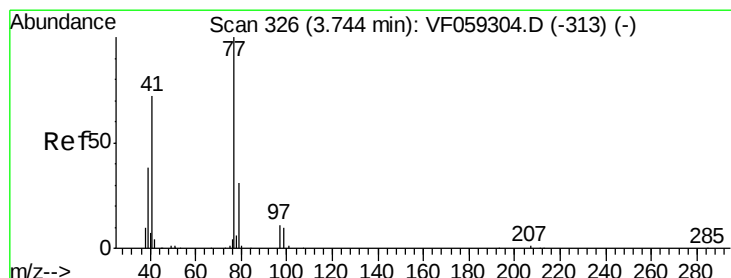
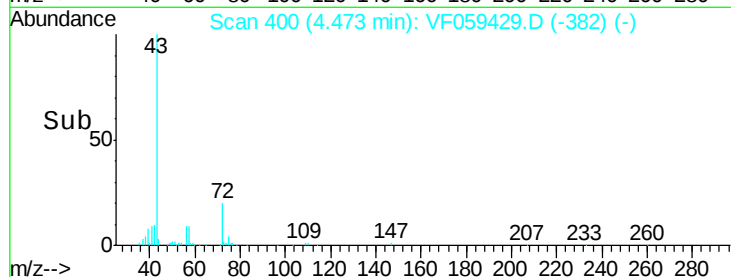
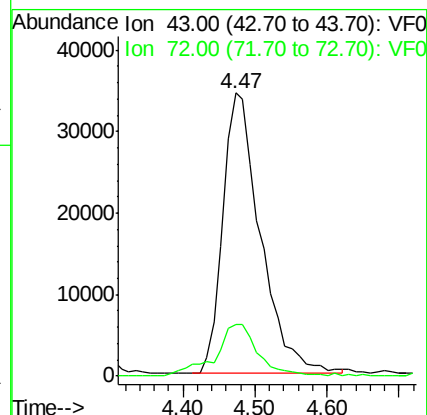
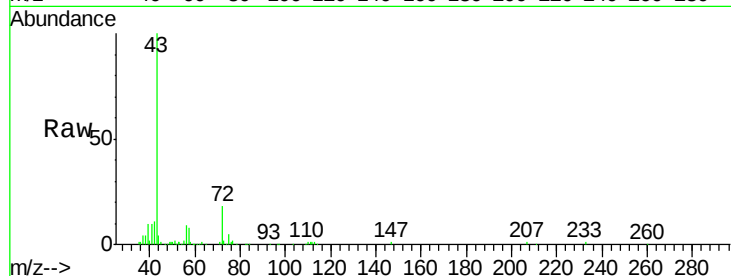
43 100

72 18.4 14.4 21.6

Manual Integrations
APPROVED

apatel

7/6/2018 10:00:31 AM



#26

2,2-Dichloropropane

Concen: 23.617 ug/l

RT: 3.73 min Scan# 325

Delta R.T. -0.01 min

Lab File: VF059429.D

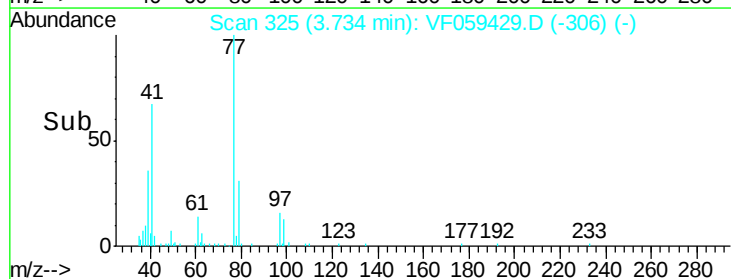
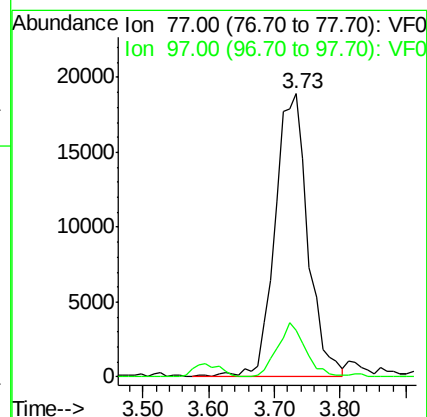
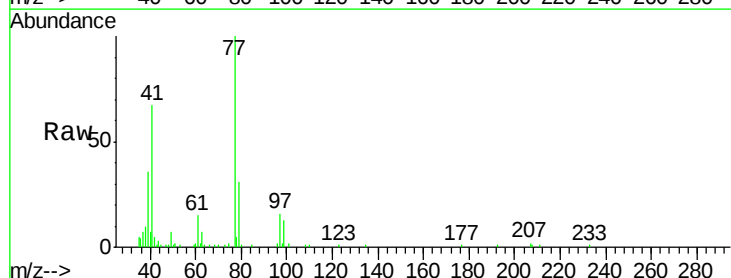
Acq: 5 Jul 2018 12:58

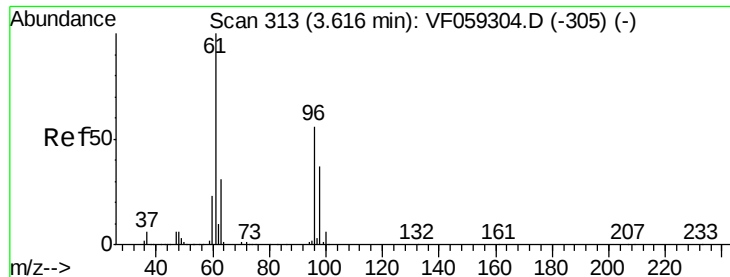
Tgt Ion: 77 Resp: 65608

Ion Ratio Lower Upper

77 100

97 16.3 8.0 23.8





#27

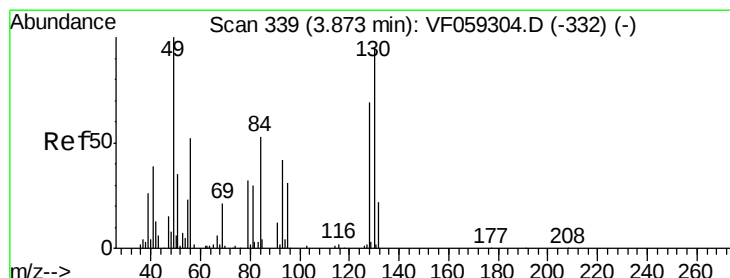
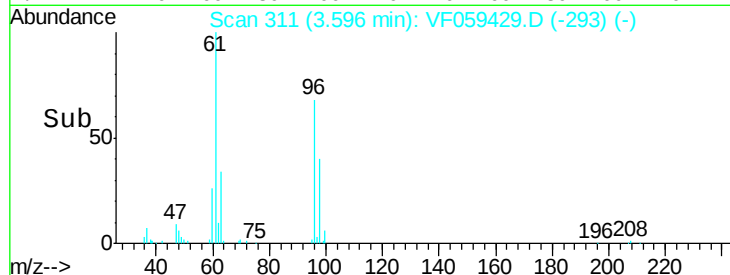
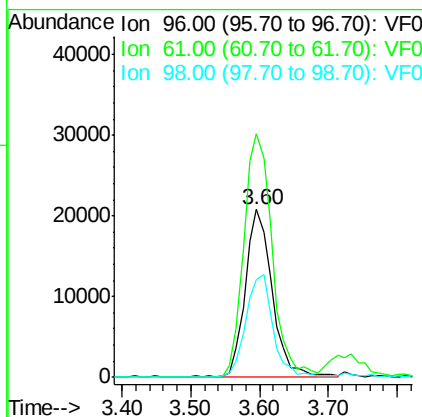
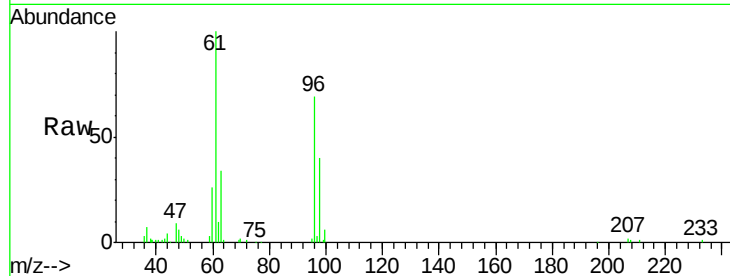
cis-1,2-Dichloroethene
Concen: 22.414 ug/l
RT: 3.60 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	56731		
61	145.2		0.0	355.4
98	58.2		0.0	131.0

Manual Integrations
APPROVED

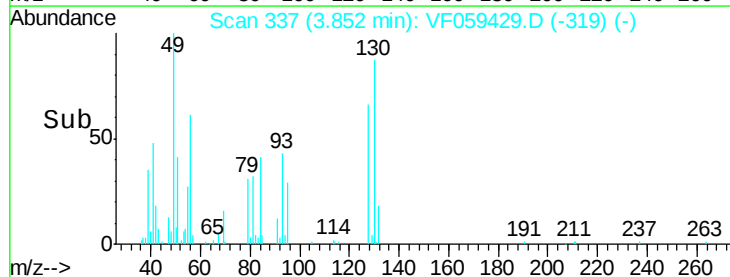
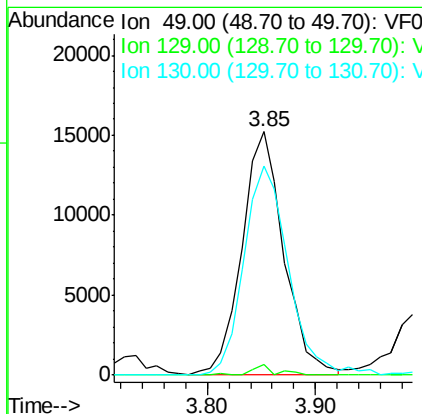
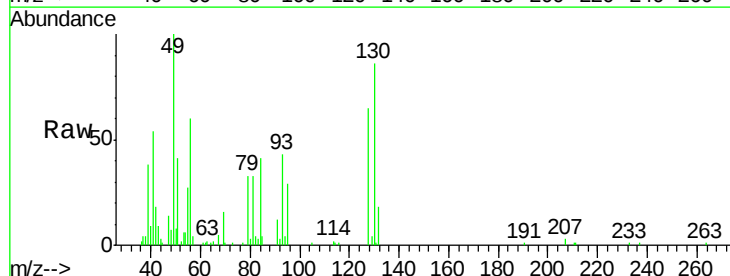
apatel
7/6/2018 10:00:31 AM

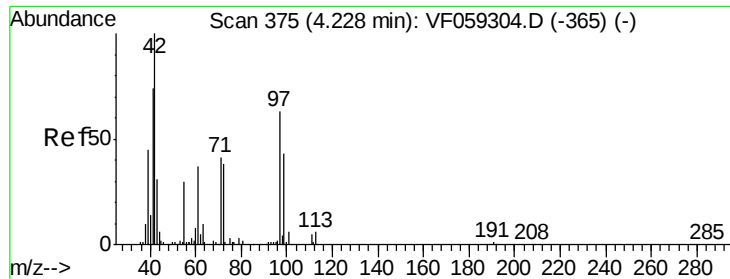


#28

Bromochloromethane
Concen: 24.429 ug/l
RT: 3.85 min Scan# 337
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	41143		
129	4.4		0.0	6.4
130	85.8		75.1	112.7





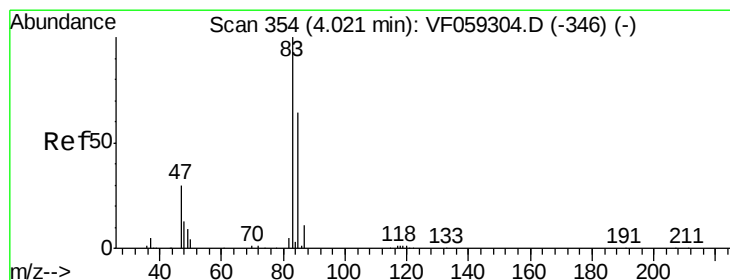
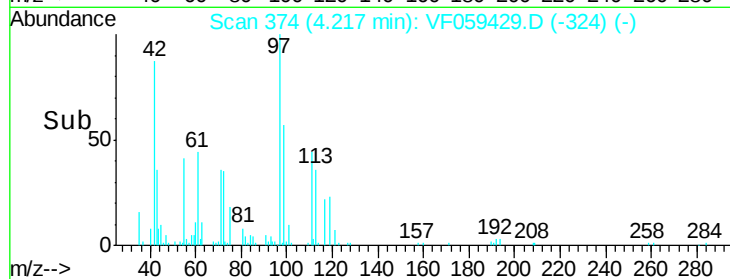
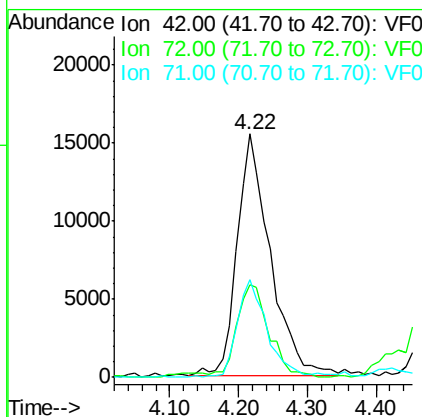
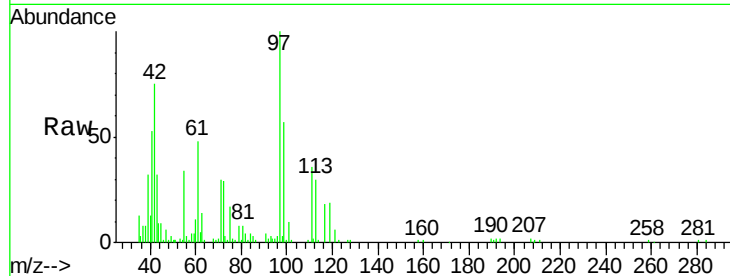
#29
Tetrahydrofuran
Concen: 112.088 ug/l
RT: 4.22 min Scan# 374
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.6	30.5	45.7
71	36.8	32.5	48.7

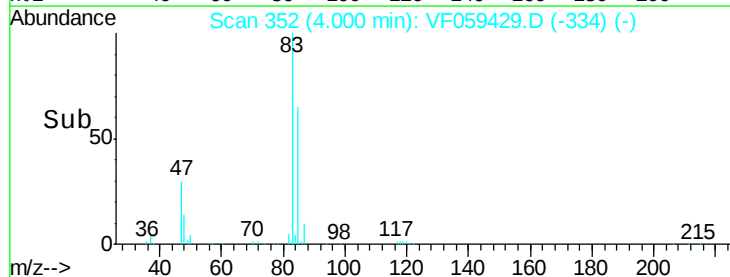
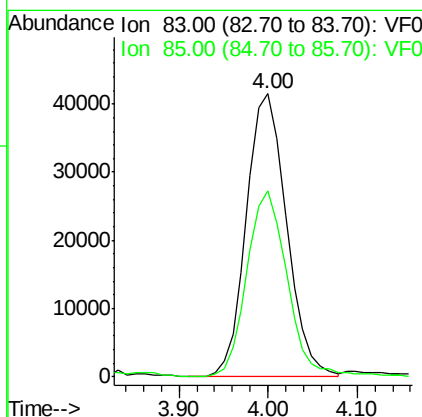
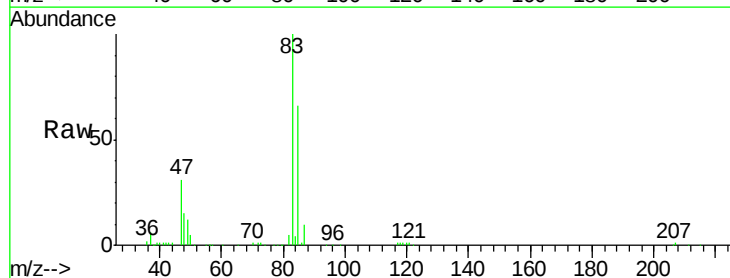
Manual Integrations
APPROVED

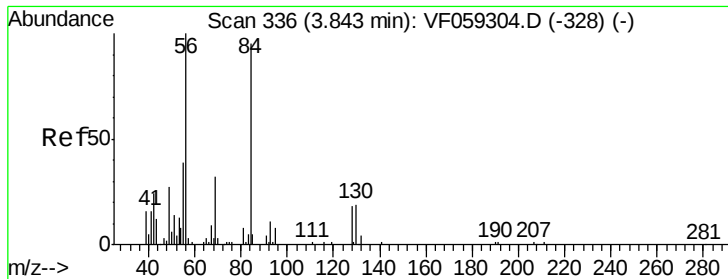
apatel
7/6/2018 10:00:31 AM



#30
Chloroform
Concen: 22.301 ug/l
RT: 4.00 min Scan# 352
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.3	76.9





#31

Cyclohexane

Concen: 22.094 ug/l

RT: 3.84 min Scan# 336

Delta R.T. -0.00 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

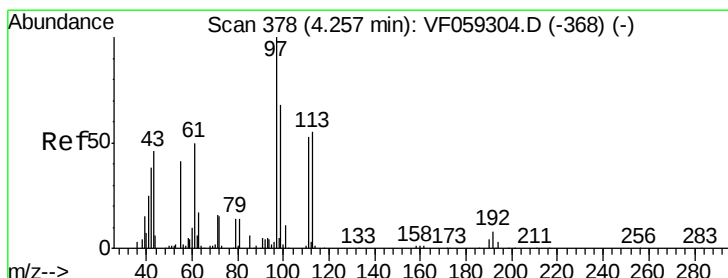
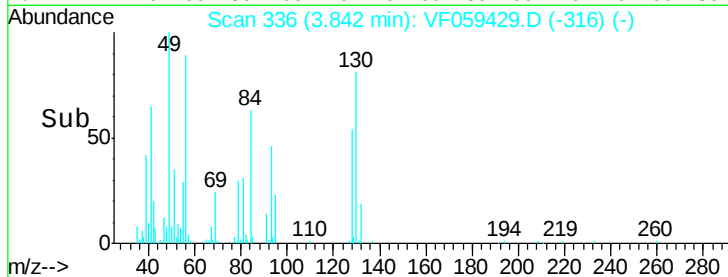
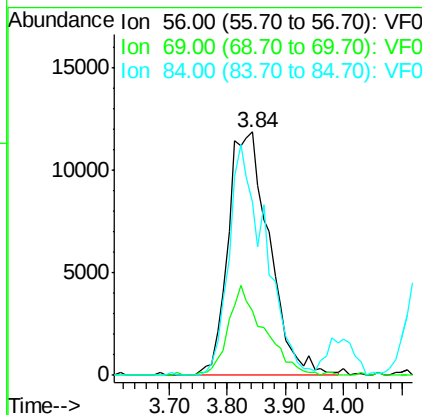
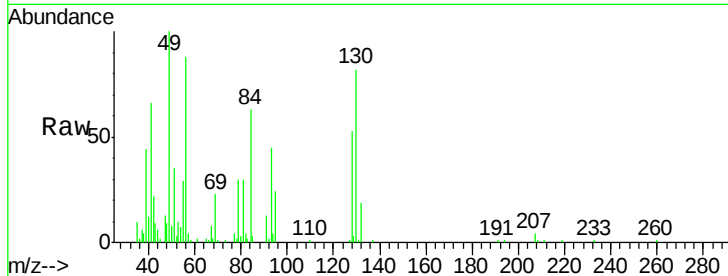
ClientSampleId :

VF0705SBS01

Tot Ion:	56	Resp:	58295
Ion Ratio	Lower	Upper	
56	100		
69	26.6	25.8	38.8
84	71.2	75.6	113.4#

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#32

1,1,1-Trichloroethane

Concen: 23.089 ug/l

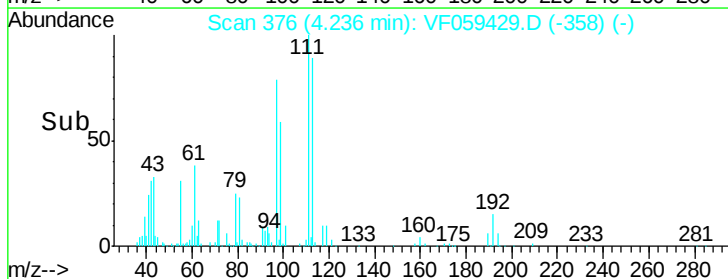
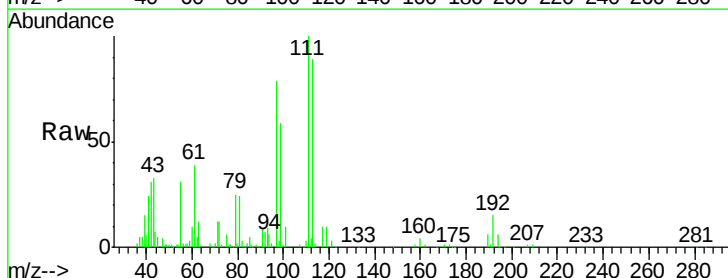
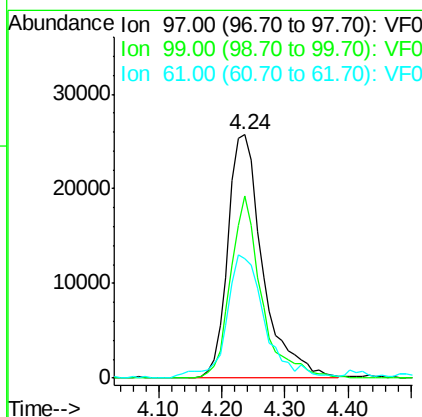
RT: 4.24 min Scan# 376

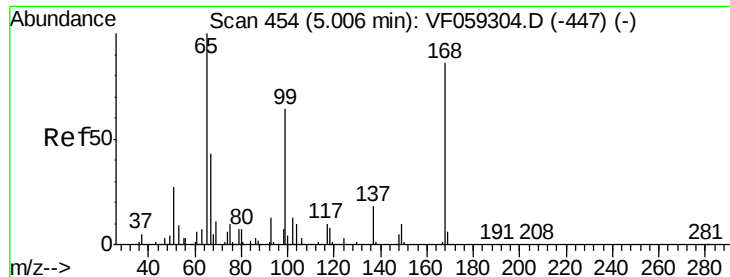
Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	97	Resp:	98521
Ion Ratio	Lower	Upper	
97	100		
99	75.1	54.1	81.1
61	49.2	41.2	61.8





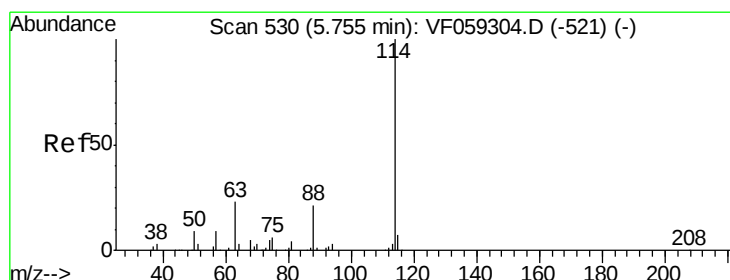
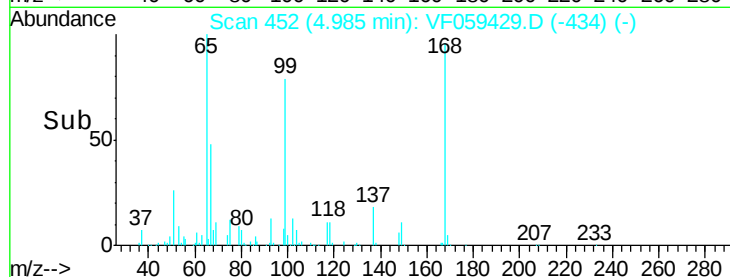
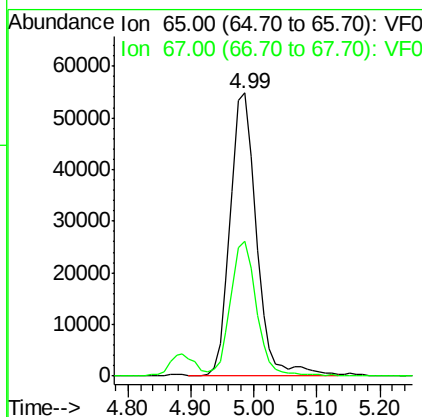
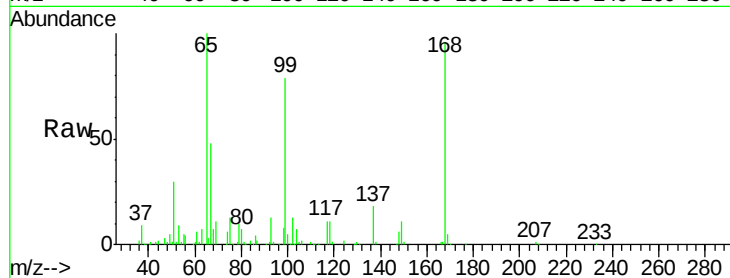
#33
 1,2-Dichloroethane-d4
 Concen: 46.451 ug/l
 RT: 4.99 min Scan# 452
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	47.8	0.0		96.8

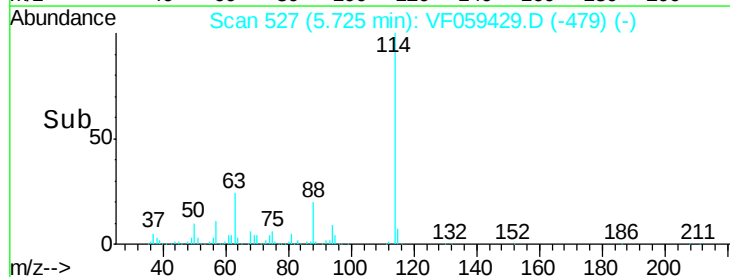
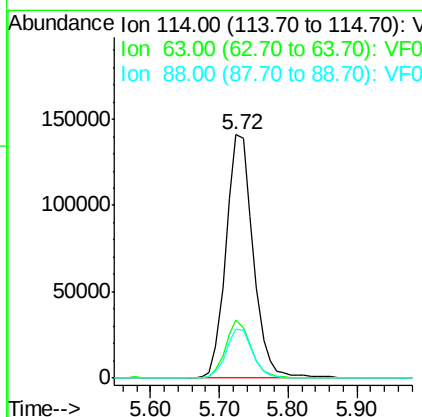
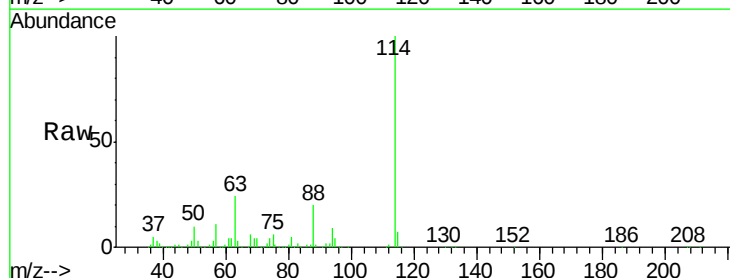
Manual Integrations
 APPROVED

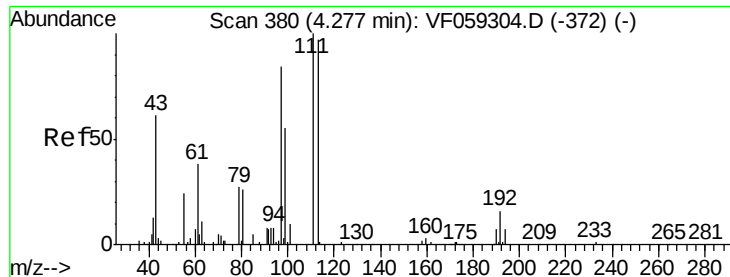
apatel
 7/6/2018 10:00:31 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.72 min Scan# 527
 Delta R.T. -0.03 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	23.9	0.0		45.8
88	20.4	0.0		41.2





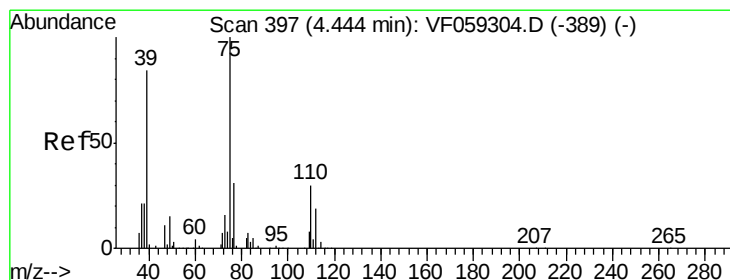
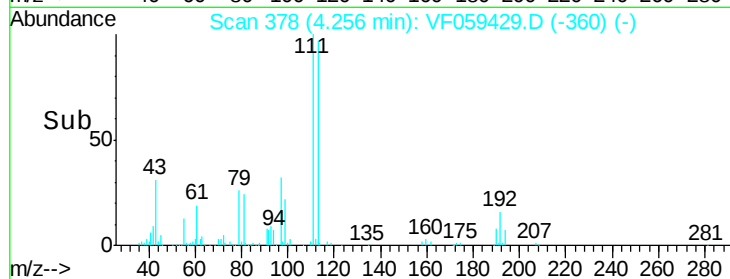
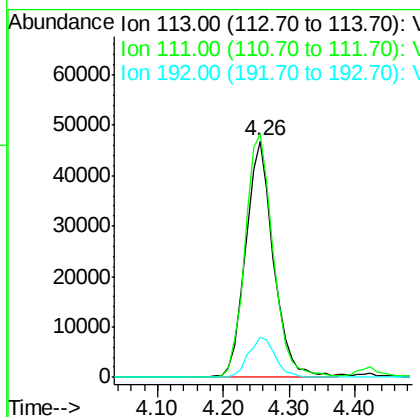
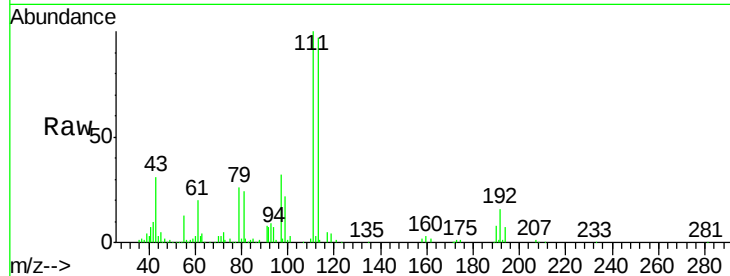
#35
 Dibromofluoromethane
 Concen: 49.523 ug/l
 RT: 4.26 min Scan# 378
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	139202		
111	103.1	82.1	123.1	
192	17.2	13.0	19.6	

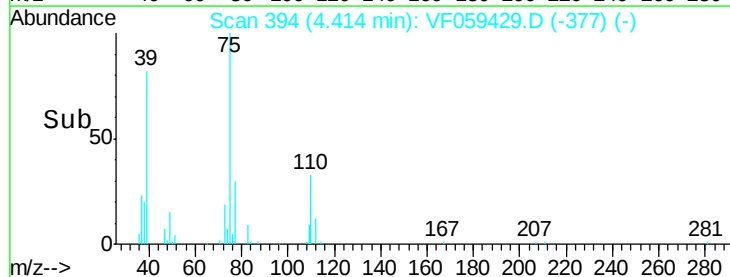
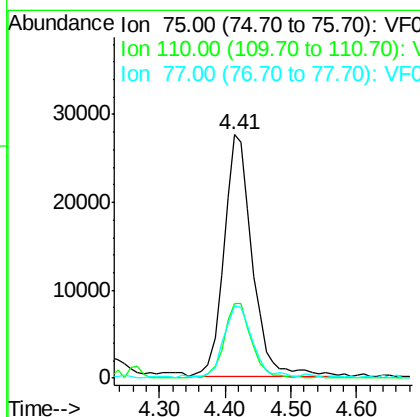
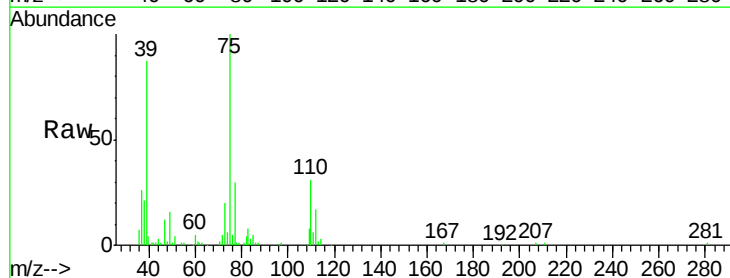
Manual Integrations
 APPROVED

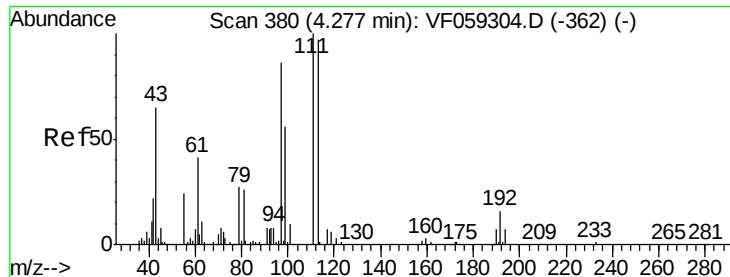
apatel
 7/6/2018 10:00:31 AM



#36
 1,1-Dichloropropene
 Concen: 24.570 ug/l
 RT: 4.41 min Scan# 394
 Delta R.T. -0.03 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	82573		
110	30.7	14.8	44.4	
77	29.6	25.2	37.8	





#37

Ethyl Acetate

Concen: 25.157 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

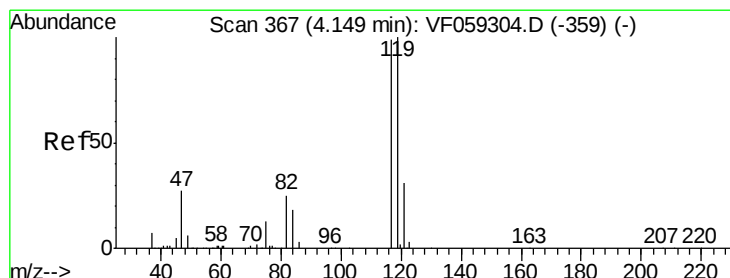
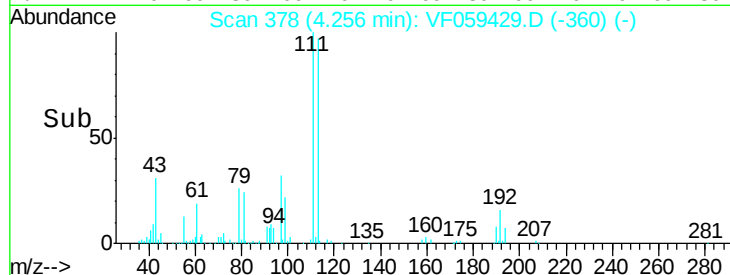
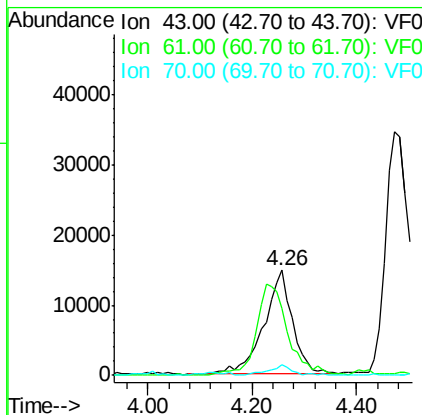
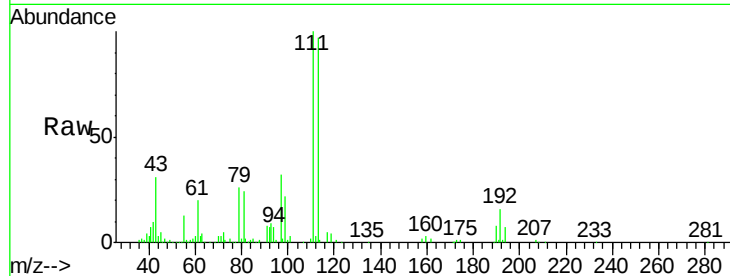
ClientSampleId :

VF0705SBS01

Tot Ion:	43	Resp:	55665
Ion Ratio	Lower	Upper	
43	100		
61	63.4	50.1	75.1
70	9.9	6.2	9.4

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#38

Carbon Tetrachloride

Concen: 25.709 ug/l m

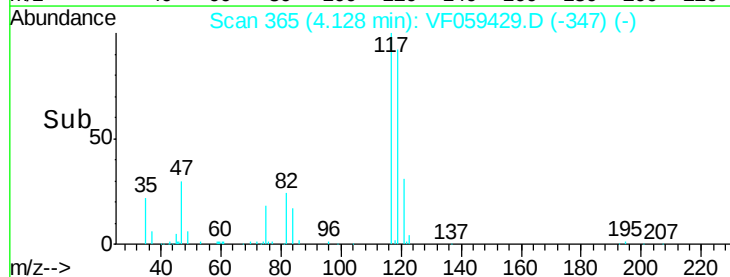
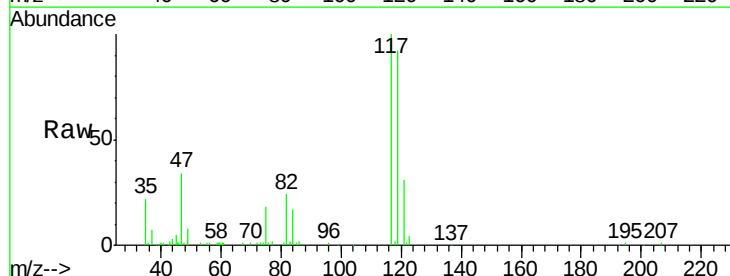
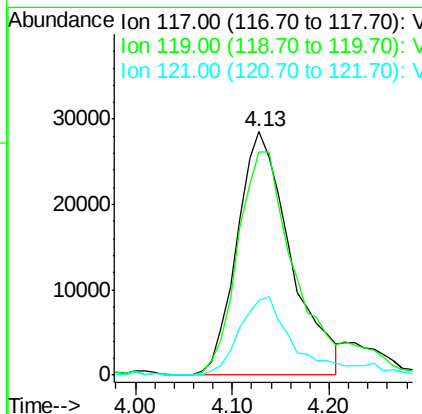
RT: 4.13 min Scan# 365

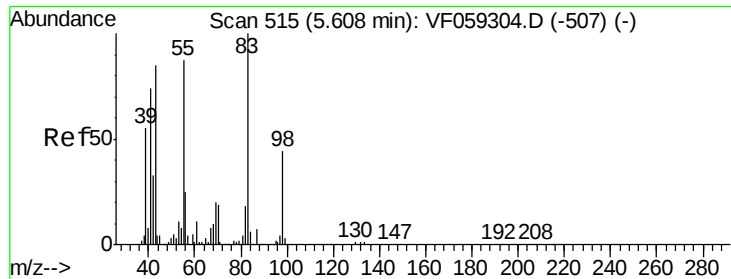
Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	117	Resp:	109033
Ion Ratio	Lower	Upper	
117	100		
119	91.6	81.0	121.4
121	30.9	24.7	37.1





#39

Methvlcvclohexane

Concen: 23.418 ug/l

RT: 5.59 min Scan# 513

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

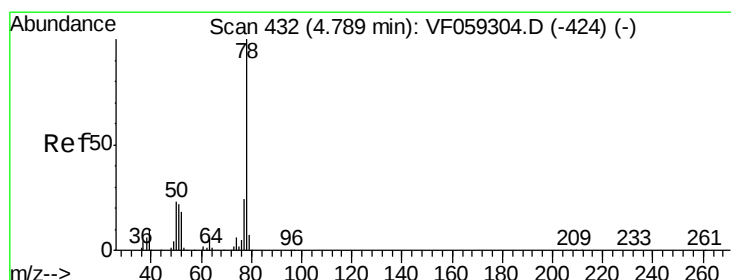
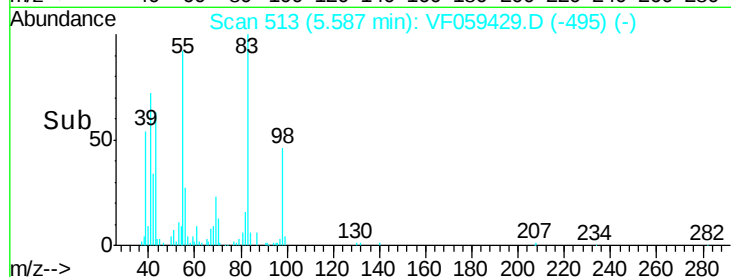
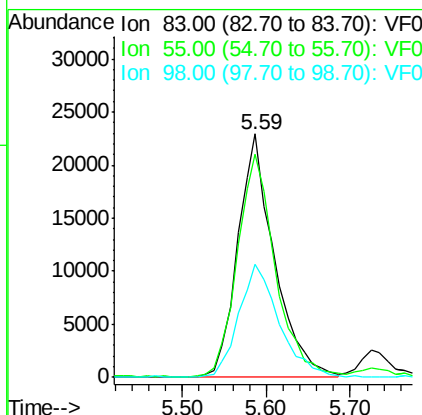
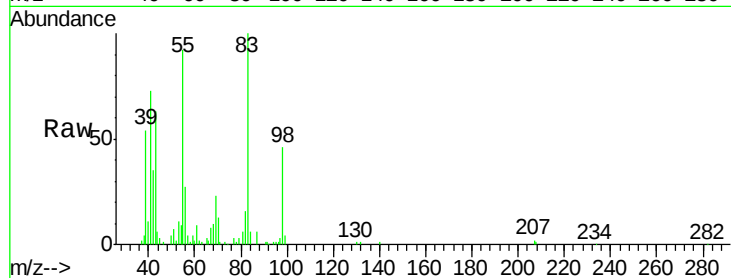
ClientSampleId :

VF0705SBS01

Tot Ion:	83	Resp:	69741
Ion	Ratio	Lower	Upper
83	100		
55	91.7	69.2	103.8
98	46.4	35.0	52.6

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#40

Benzene

Concen: 22.818 ug/l

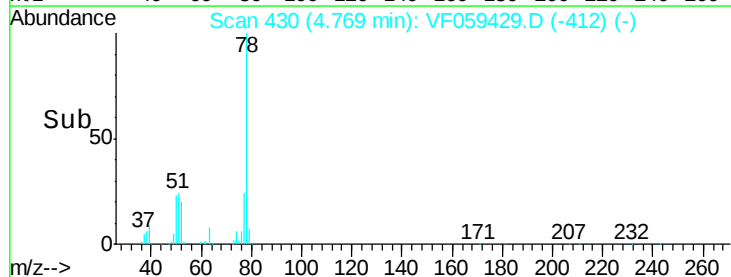
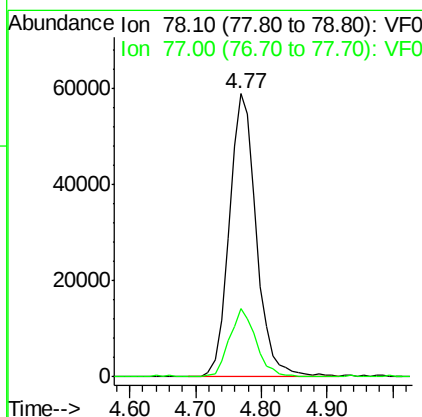
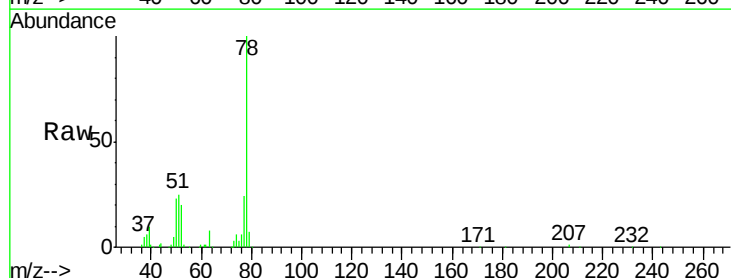
RT: 4.77 min Scan# 430

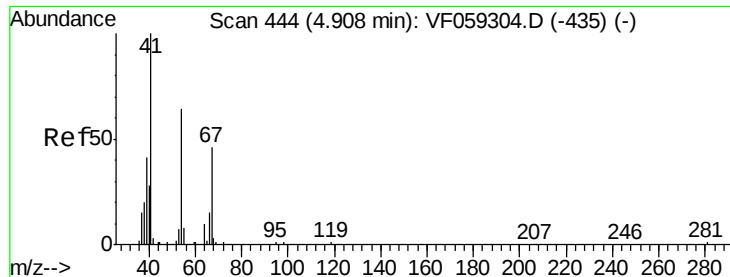
Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	78	Resp:	170025
Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.6	29.4





#41

Methacrylonitrile

Concen: 22.579 ug/l

RT: 4.88 min Scan# 441

Delta R.T. -0.03 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

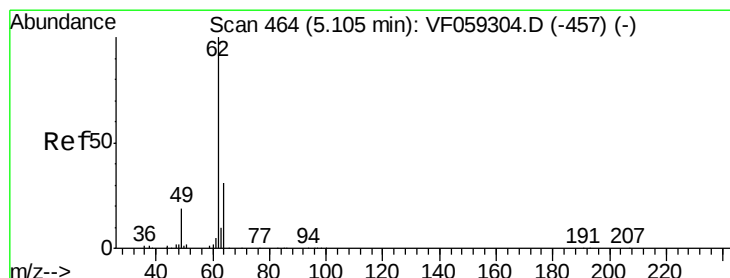
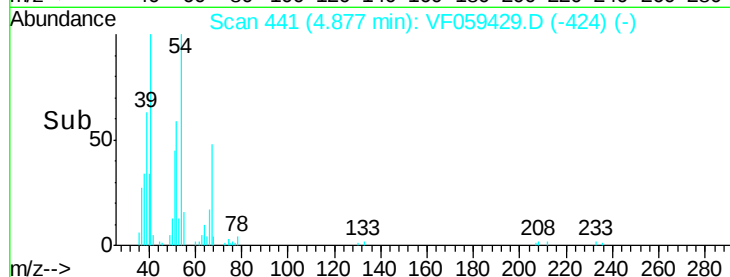
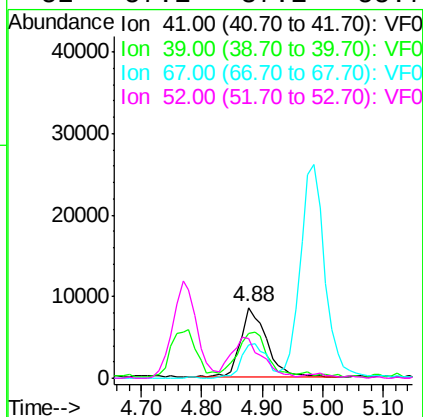
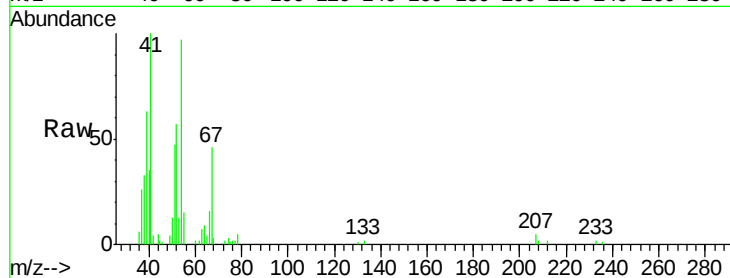
ClientSampleId :

VF0705SBS01

Tot Ion:	41	Resp:	25884
Ion	Ratio	Lower	Upper
41	100		
39	63.5	50.0	75.0
67	46.4	37.0	55.6
52	57.1	37.1	55.7#

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#42

1,2-Dichloroethane

Concen: 23.891 ug/l

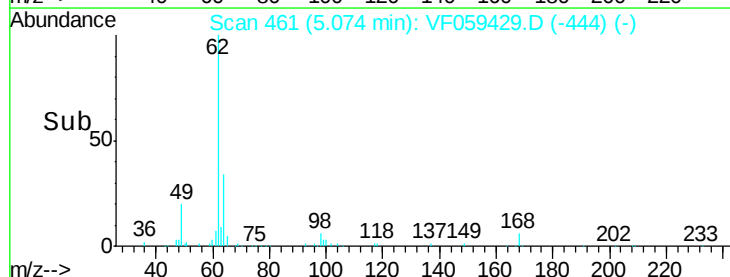
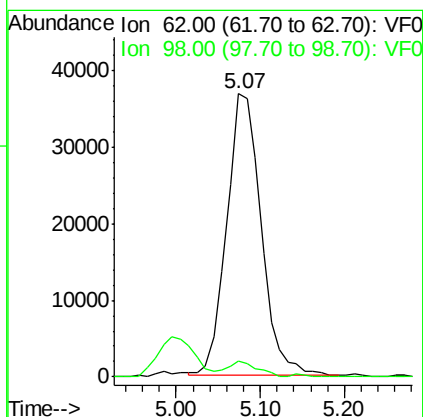
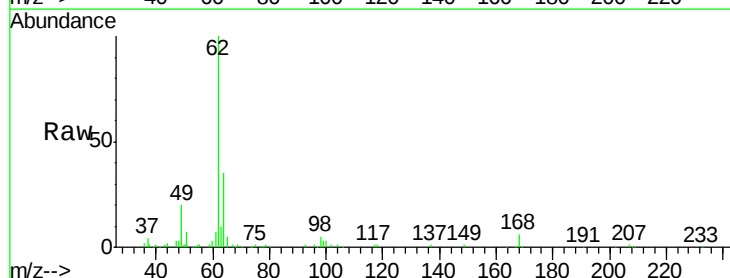
RT: 5.07 min Scan# 461

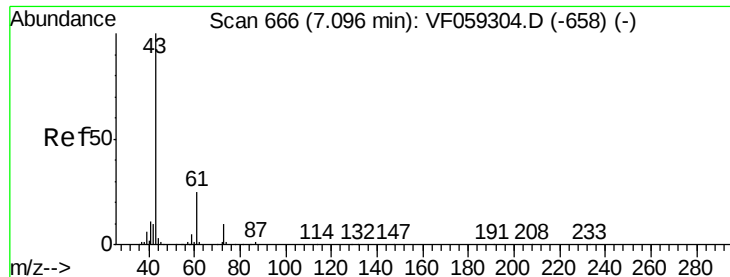
Delta R.T. -0.03 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	62	Resp:	104025
Ion	Ratio	Lower	Upper
62	100		
98	5.5	0.0	11.4





#43

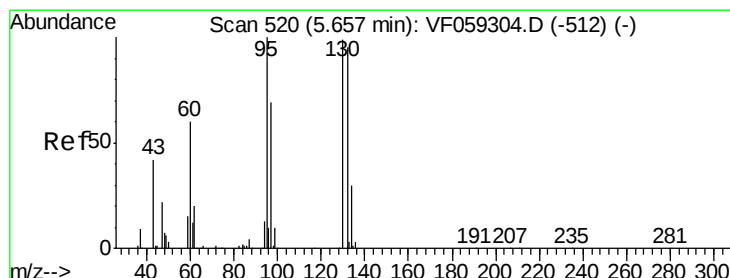
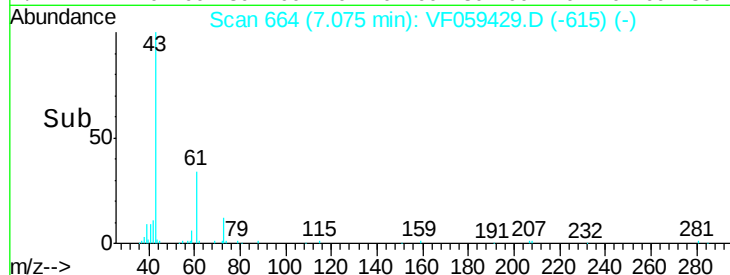
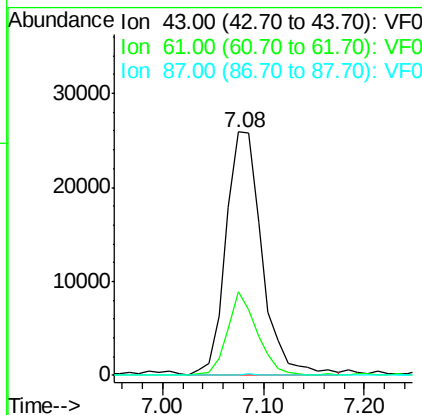
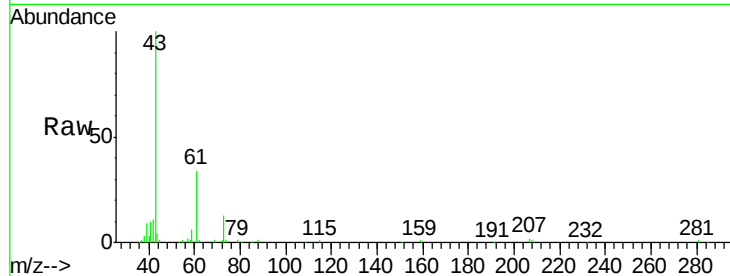
Isopropyl Acetate
 Concen: 22.685 ug/l
 RT: 7.08 min Scan# 664
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	34.2	19.7	29.5#
87	0.0	0.5	0.7#

Manual Integrations
 APPROVED

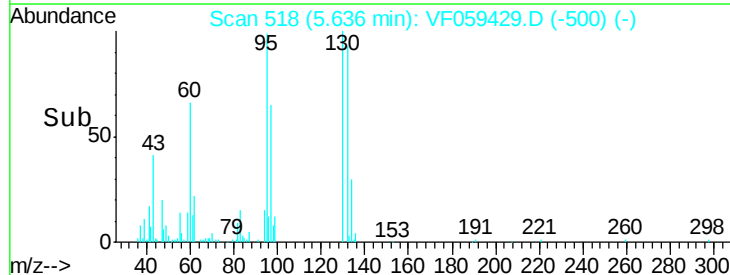
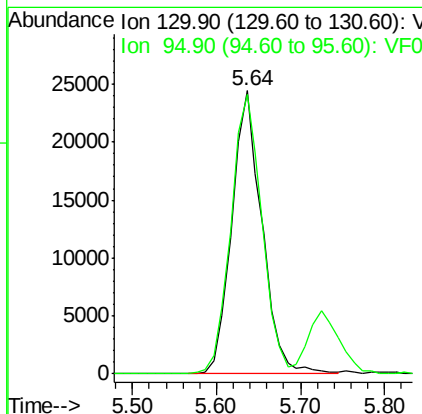
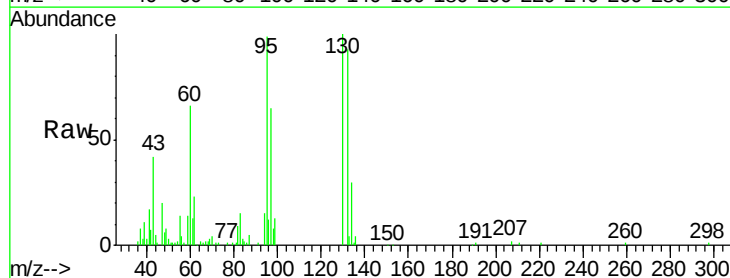
apatel
 7/6/2018 10:00:31 AM

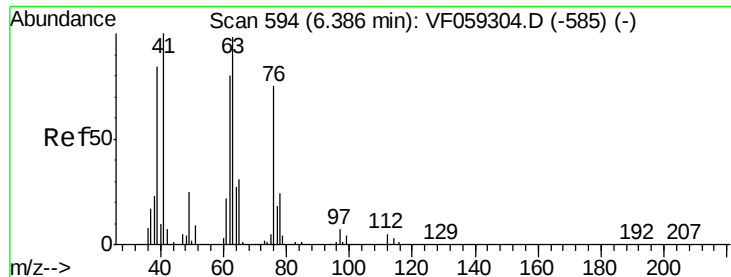


#44

Trichloroethene
 Concen: 23.777 ug/l
 RT: 5.64 min Scan# 518
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	202.4





#45

1,2-Dichloropropane

Concen: 22.674 ug/l

RT: 6.37 min Scan# 592

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 63 Resp: 48271

Ion Ratio Lower Upper

63 100

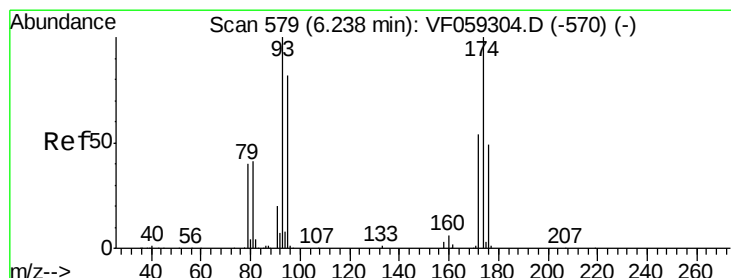
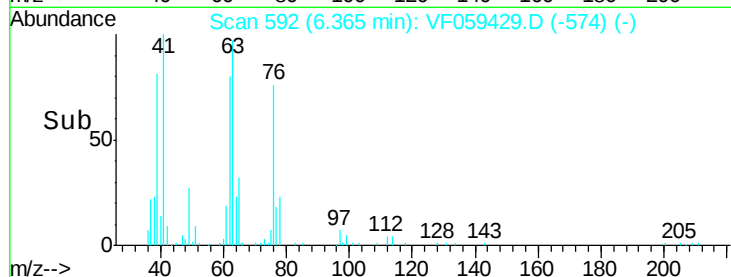
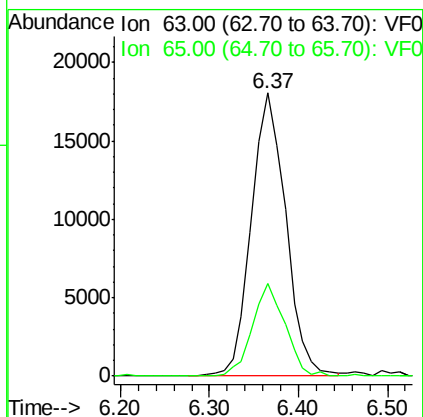
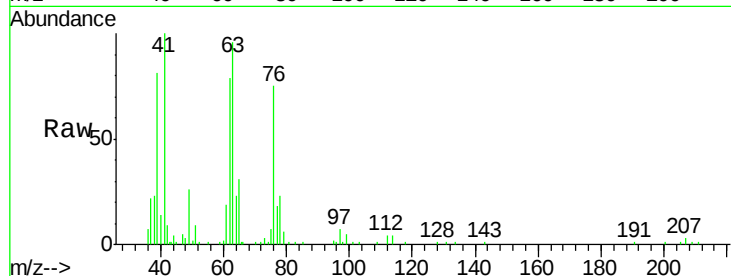
65 32.7 25.3 37.9

Manual Integrations

APPROVED

apatel

7/6/2018 10:00:31 AM



#46

Dibromomethane

Concen: 23.210 ug/l

RT: 6.22 min Scan# 577

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

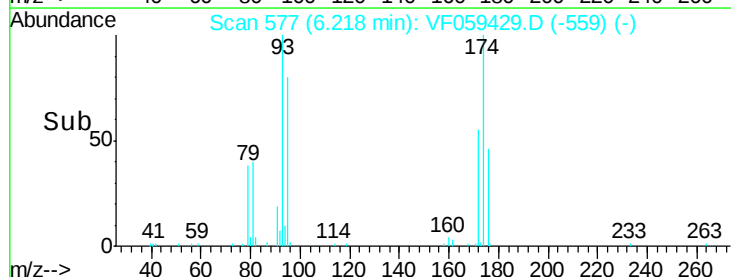
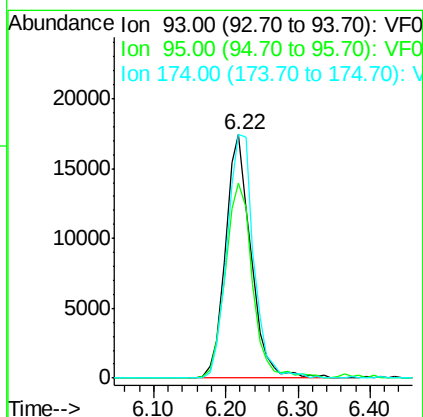
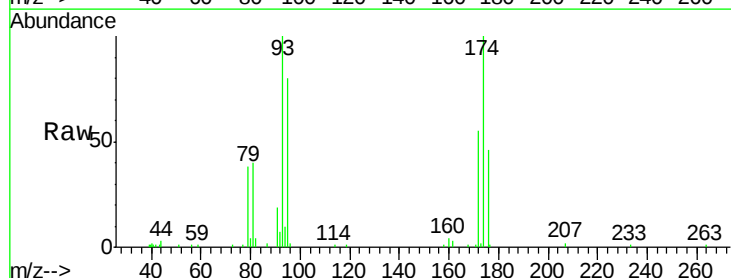
Tgt Ion: 93 Resp: 42887

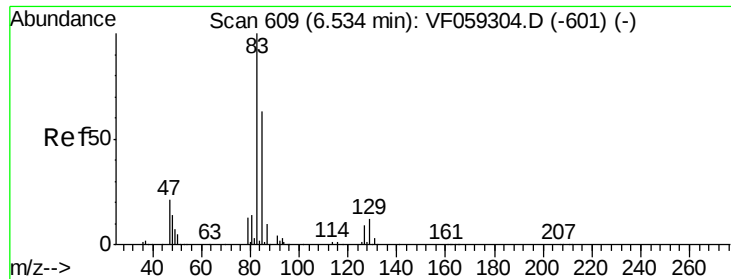
Ion Ratio Lower Upper

93 100

95 79.9 65.6 98.4

174 99.9 80.0 120.0





#47

Bromodichloromethane

Concen: 24.518 ug/l

RT: 6.51 min Scan# 607

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

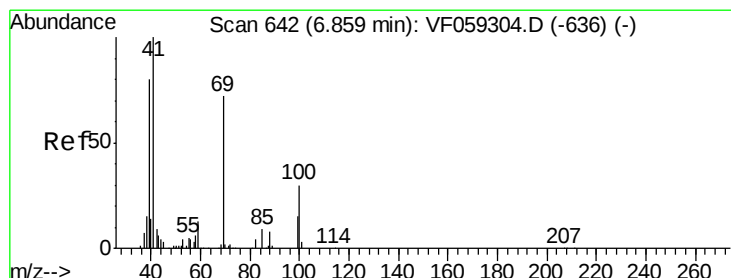
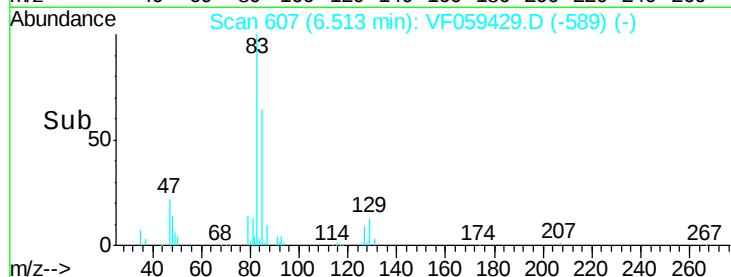
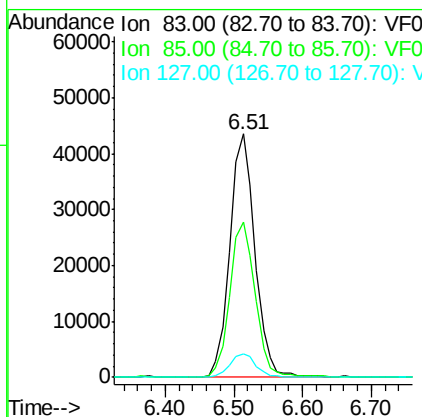
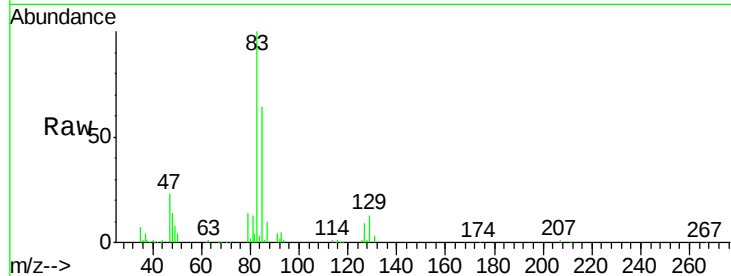
ClientSampleId :

VF0705SBS01

Tot Ion:	83	Resp:	109664
Ion Ratio	Lower	Upper	
83	100		
85	63.6	50.2	75.2
127	9.5	7.0	10.4

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#48

Methyl methacrylate

Concen: 23.320 ug/l

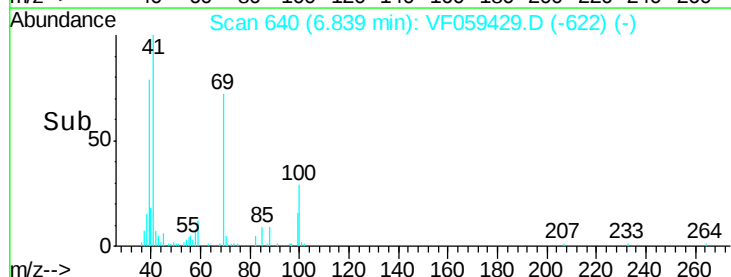
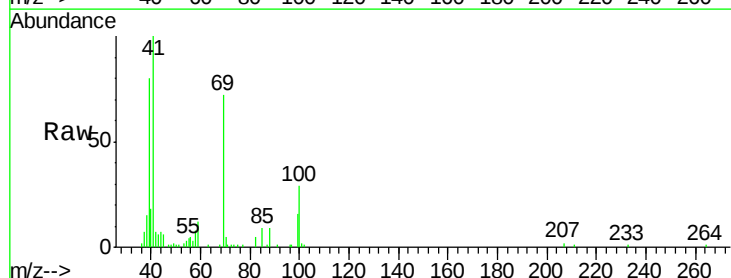
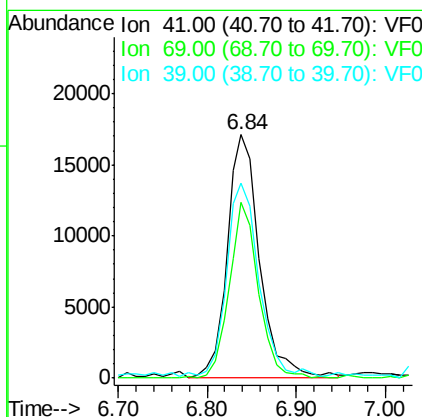
RT: 6.84 min Scan# 640

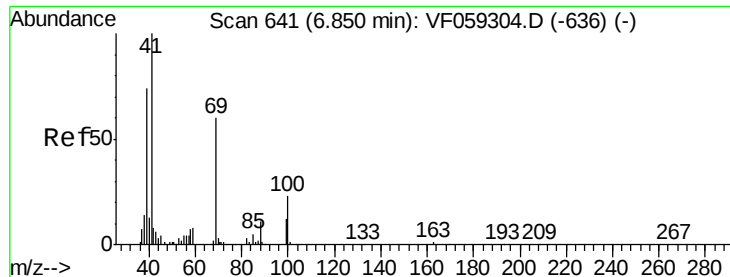
Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	41	Resp:	43751
Ion Ratio	Lower	Upper	
41	100		
69	72.0	57.3	85.9
39	80.0	64.4	96.6





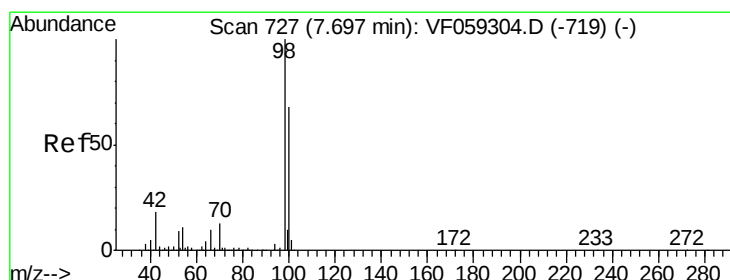
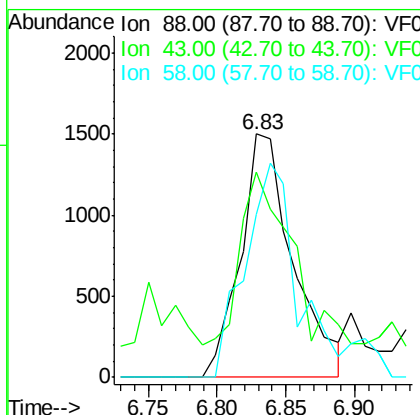
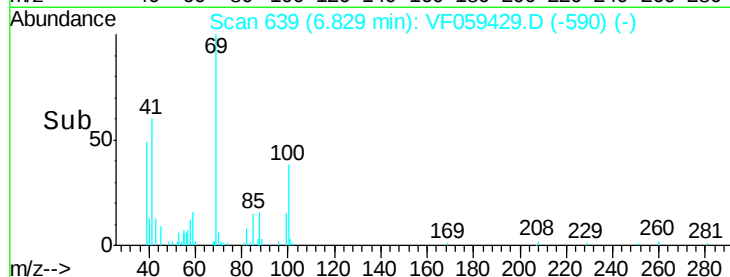
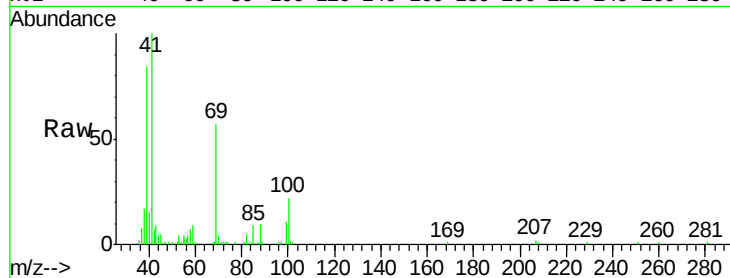
#49
1,4-Dioxane
Concen: 374.162 ug/l
RT: 6.83 min Scan# 639
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	84.5	50.6	75.8#
58	67.0	46.6	69.8

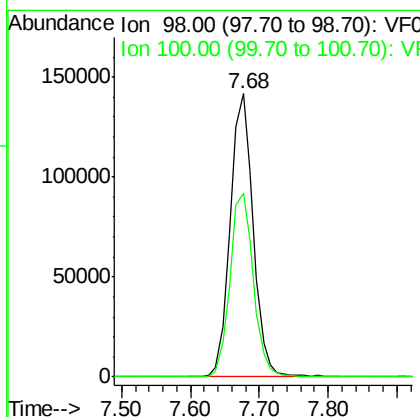
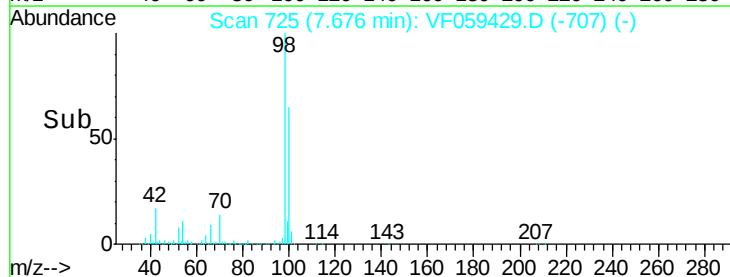
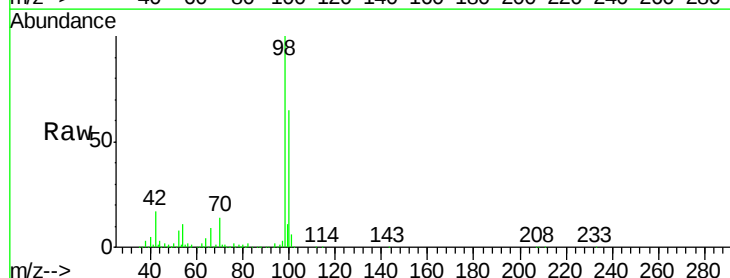
Manual Integrations
APPROVED

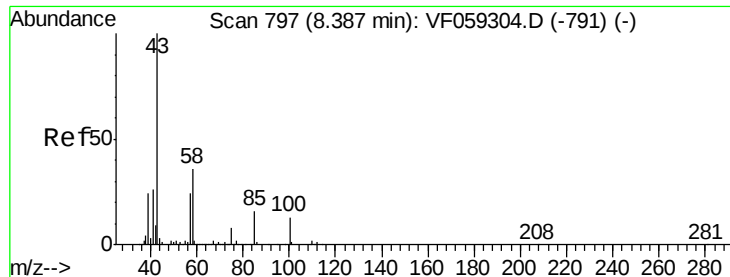
apatel
7/6/2018 10:00:31 AM



#50
Toluene-d8
Concen: 46.962 ug/l
RT: 7.68 min Scan# 725
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.1	54.6	82.0





#51

4-Methyl-2-Pentanone

Concen: 123.051 ug/l

RT: 8.38 min Scan# 796

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 43 Resp: 255188

Ion Ratio Lower Upper

43 100

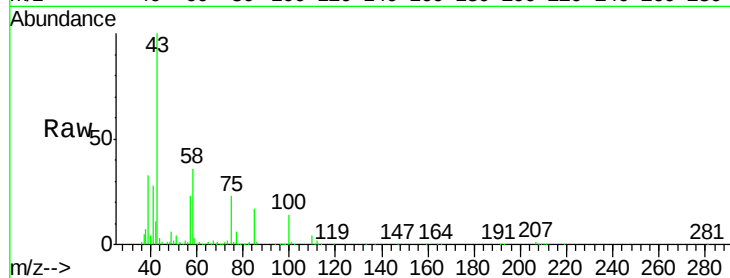
58 36.0 28.4 42.6

Manual Integrations

APPROVED

apatel

7/6/2018 10:00:31 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.38

120000

100000

80000

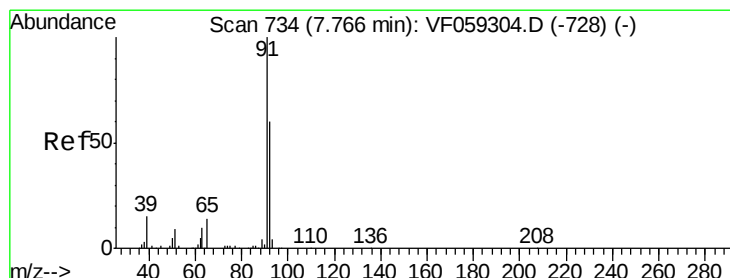
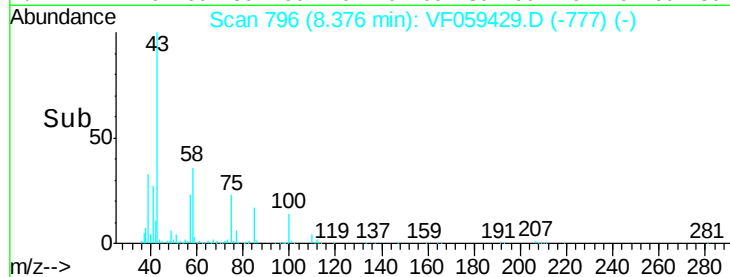
60000

40000

20000

0

Time--> 8.20 8.30 8.40 8.50



#52

Toluene

Concen: 21.181 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059429.D

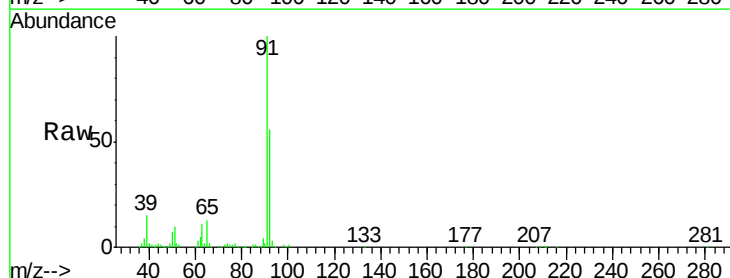
Acq: 5 Jul 2018 12:58

Tgt Ion: 92 Resp: 118098

Ion Ratio Lower Upper

92 100

91 178.5 132.8 199.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.75

100000

80000

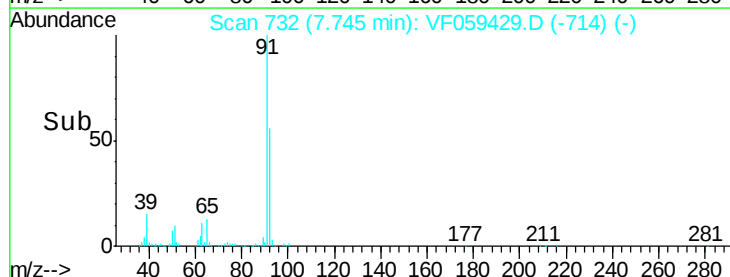
60000

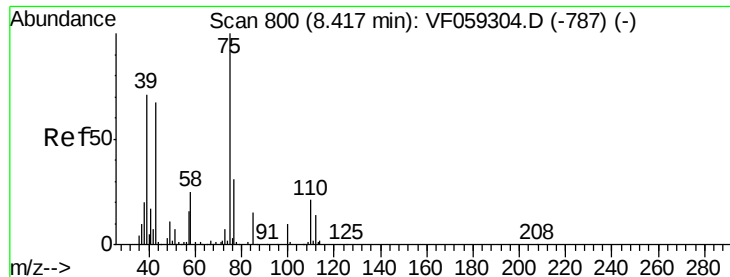
40000

20000

0

Time--> 7.60 7.70 7.80





#53

t-1,3-Dichloropropene

Concen: 26.098 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 75 Resp: 106404

Ion Ratio Lower Upper

75 100

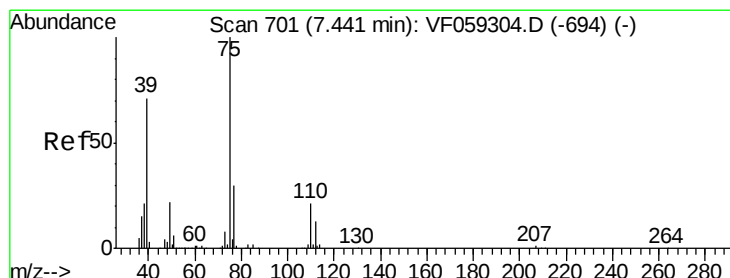
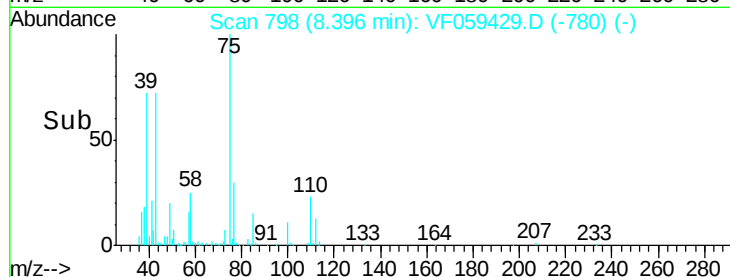
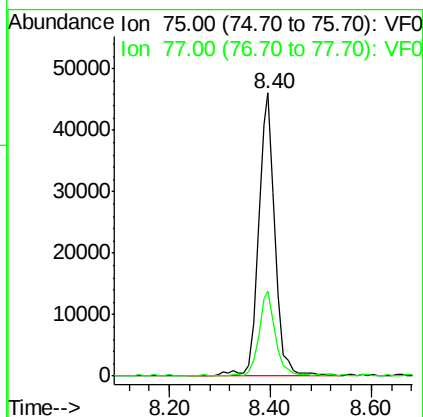
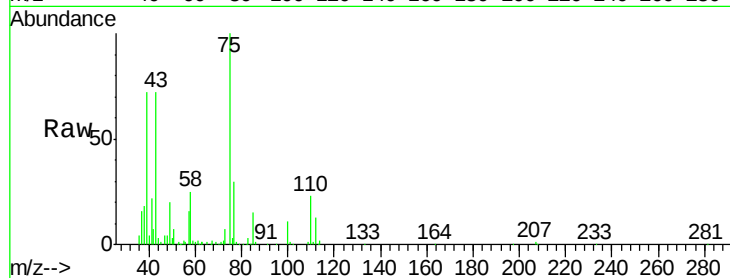
77 30.1 25.3 37.9

Manual Integrations

APPROVED

apatel

7/6/2018 10:00:31 AM



#54

cis-1,3-Dichloropropene

Concen: 23.580 ug/l

RT: 7.42 min Scan# 699

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

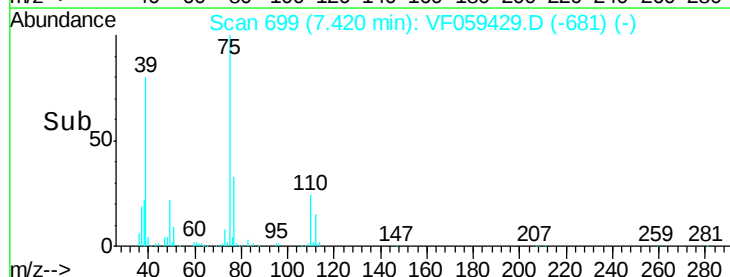
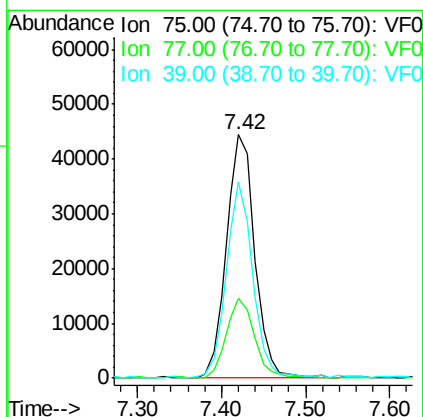
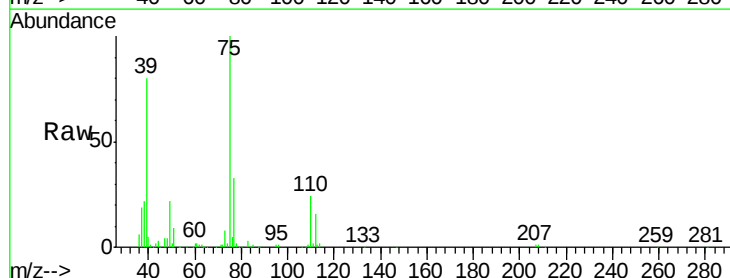
Tgt Ion: 75 Resp: 104425

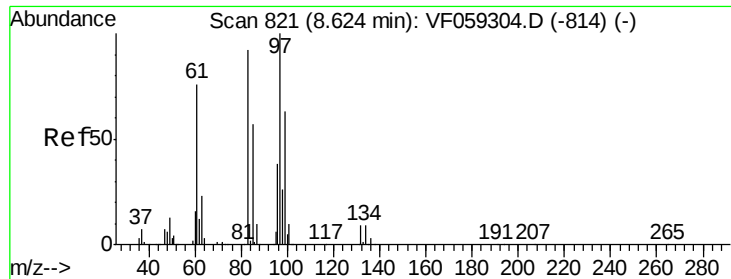
Ion Ratio Lower Upper

75 100

77 33.0 24.3 36.5

39 80.4 57.2 85.8





#55

1,1,2-Trichloroethane

Concen: 23.580 ug/l

RT: 8.60 min Scan# 819

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

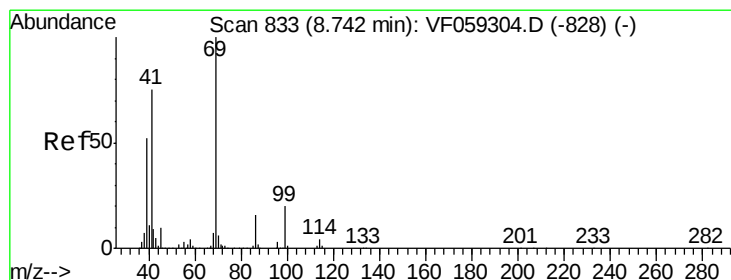
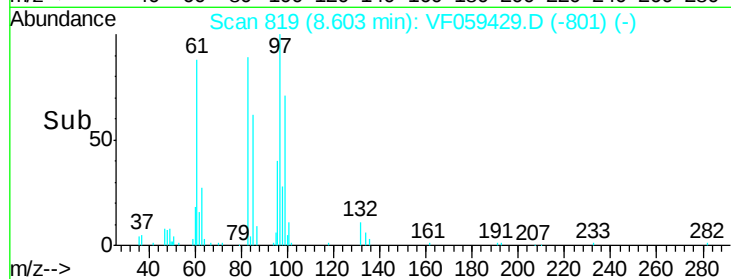
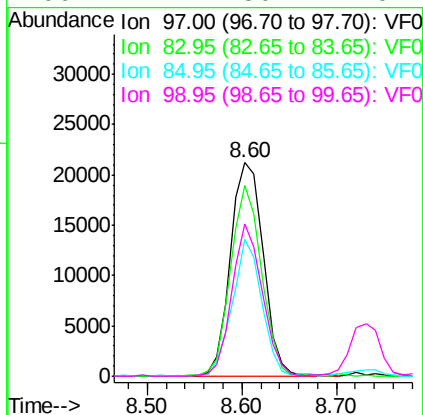
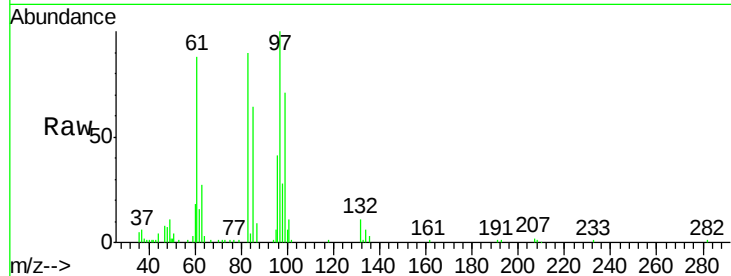
ClientSampleId :

VF0705SBS01

Tot Ion:	97	Resp:	51046
Ion	Ratio	Lower	Upper
97	100		
83	89.6	73.8	110.8
85	63.9	45.5	68.3
99	71.2	50.7	76.1

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#56

Ethyl methacrylate

Concen: 21.832 ug/l

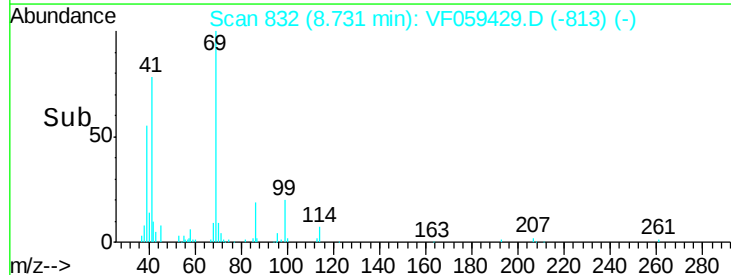
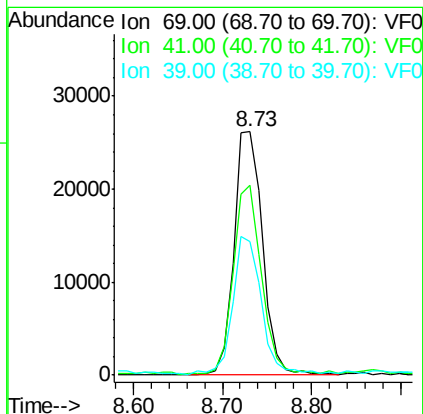
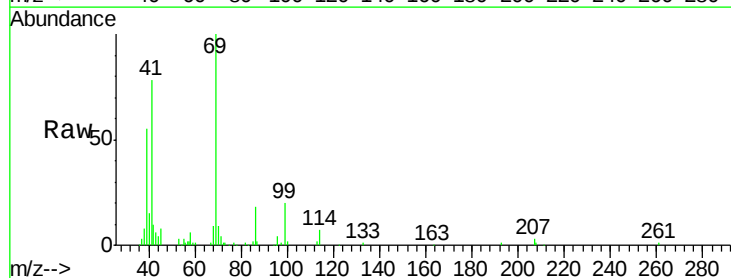
RT: 8.73 min Scan# 832

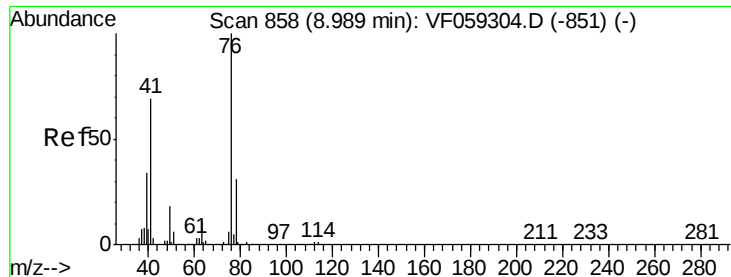
Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	69	Resp:	58548
Ion	Ratio	Lower	Upper
69	100		
41	77.9	60.3	90.5
39	55.1	42.2	63.4





#57

1,3-Dichloropropane

Concen: 23.453 ug/l

RT: 8.97 min Scan# 856

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 76 Resp: 87077

Ion Ratio Lower Upper

76 100

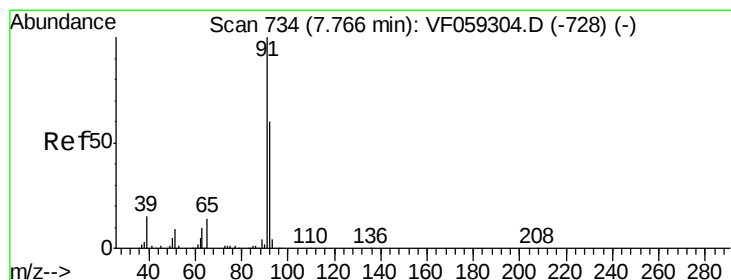
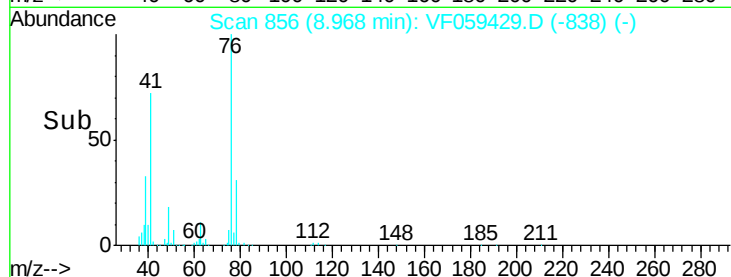
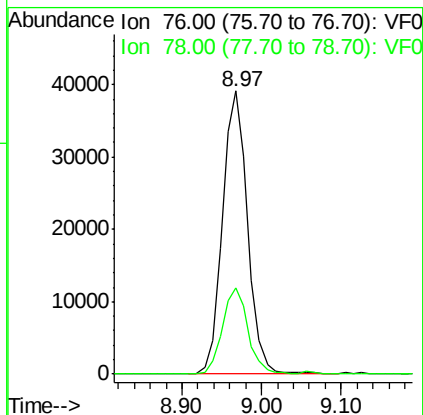
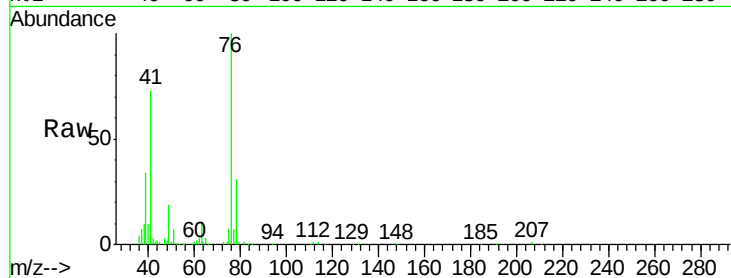
78 30.6 24.9 37.3

Manual Integrations

APPROVED

apatel

7/6/2018 10:00:31 AM



#58

2-Chloroethyl Vinyl ether

Concen: 116.031 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059429.D

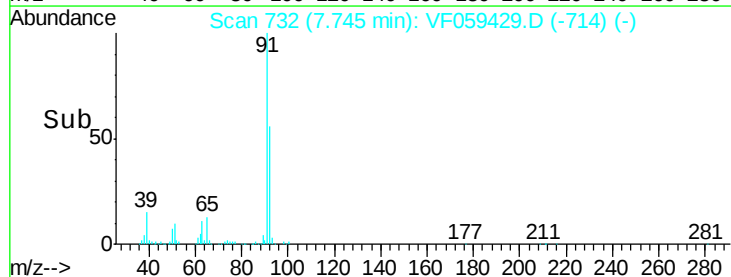
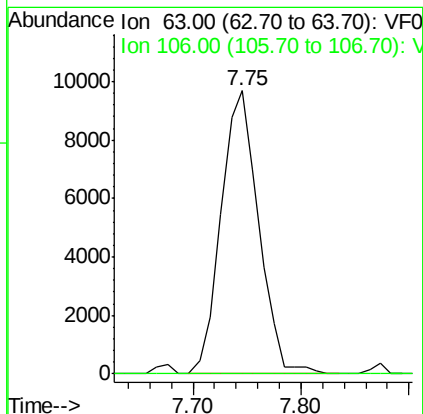
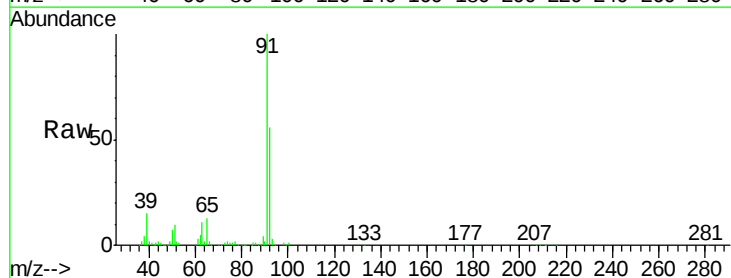
Acq: 5 Jul 2018 12:58

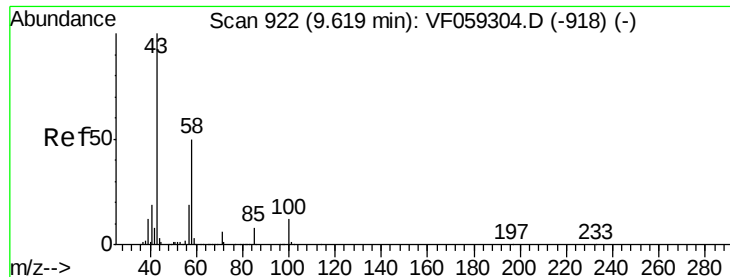
Tgt Ion: 63 Resp: 23337

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





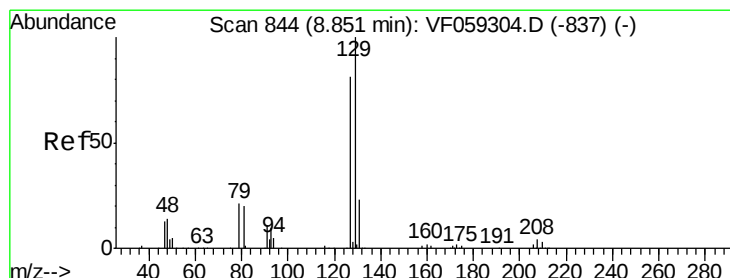
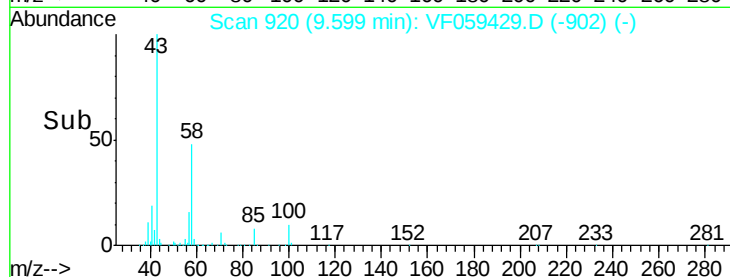
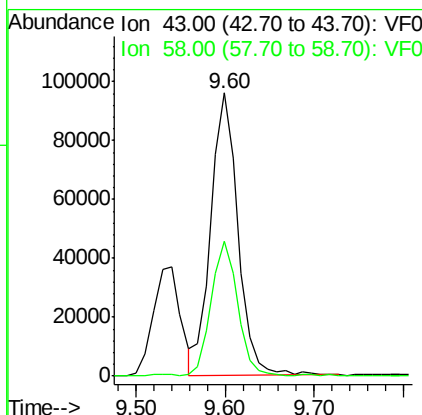
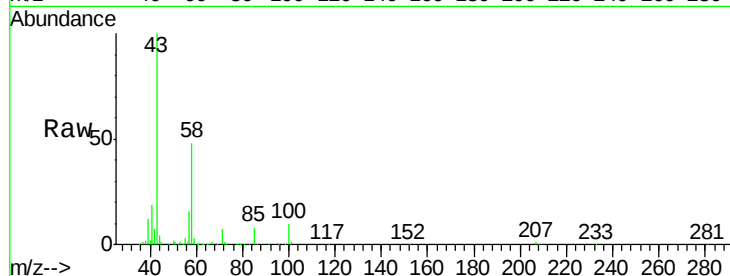
#59
2-Hexanone
Concen: 122.017 ug/l
RT: 9.60 min Scan# 920
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

Tot Ion: 43 Resp: 203579
Ion Ratio Lower Upper
43 100
58 47.6 23.3 69.9

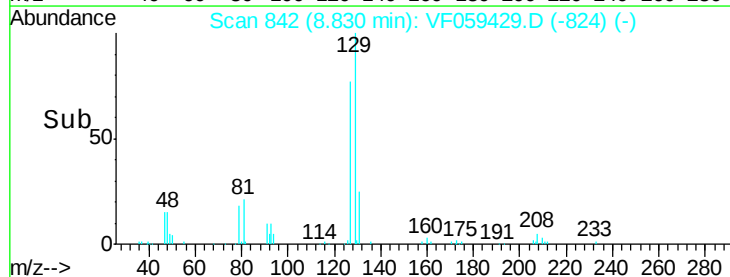
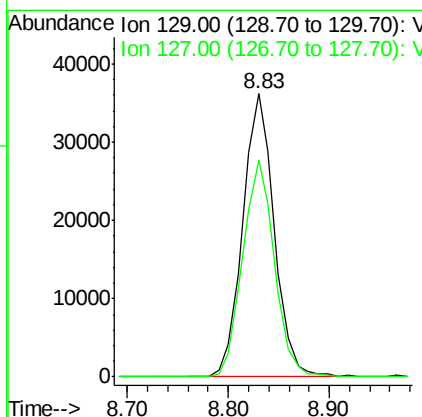
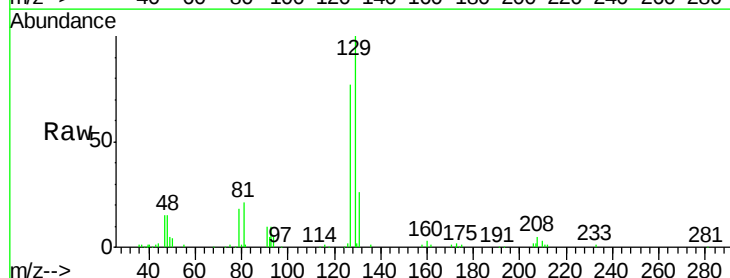
Manual Integrations
APPROVED

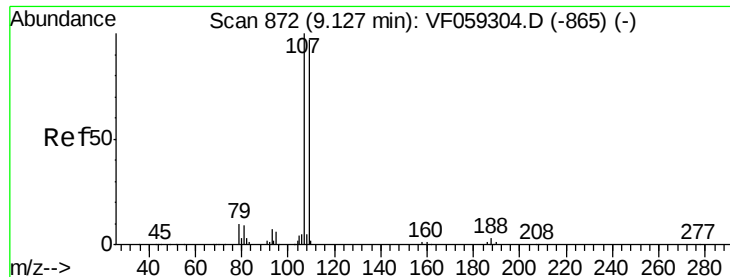
apatel
7/6/2018 10:00:31 AM



#60
Dibromochloromethane
Concen: 23.513 ug/l
RT: 8.83 min Scan# 842
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion: 129 Resp: 78584
Ion Ratio Lower Upper
129 100
127 76.7 40.7 122.1





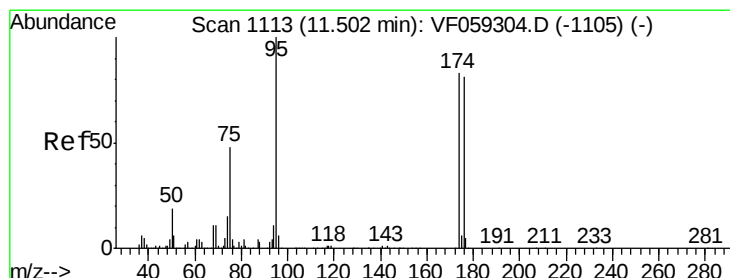
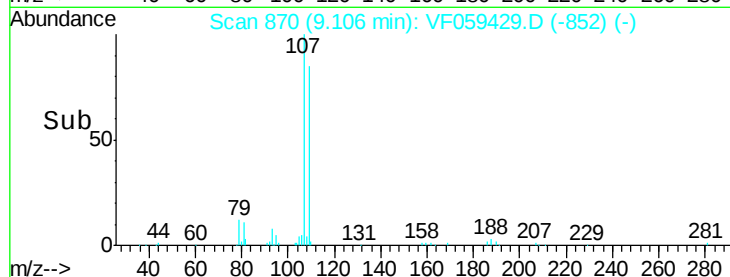
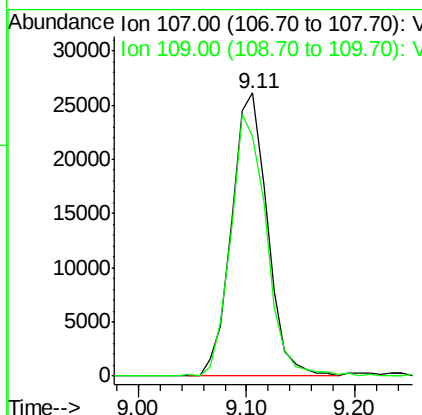
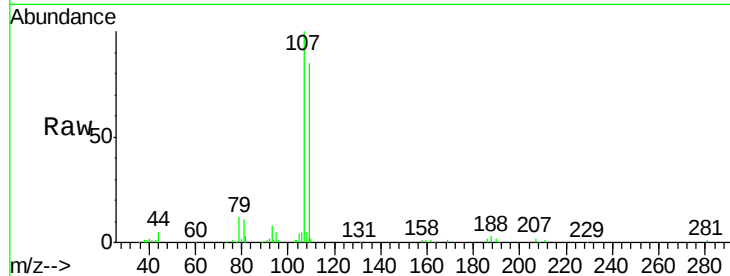
#61
 1,2-Dibromoethane
 Concen: 22.830 ug/l
 RT: 9.11 min Scan# 870
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	84.8	77.3	115.9

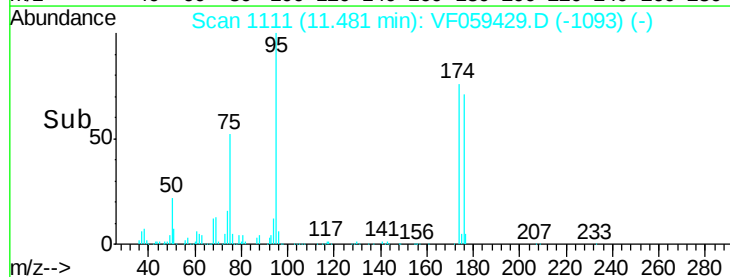
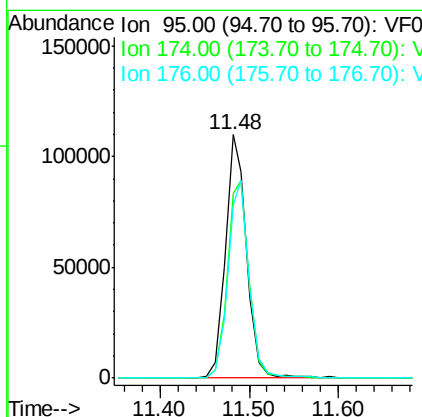
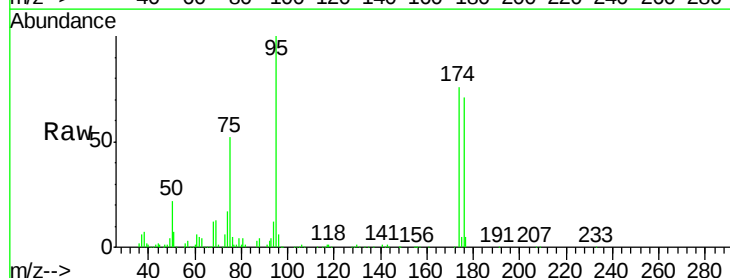
Manual Integrations
 APPROVED

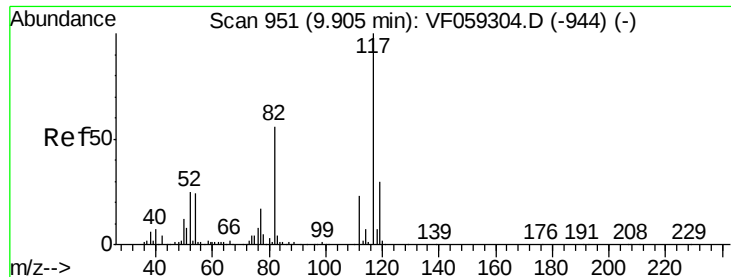
apatel
 7/6/2018 10:00:31 AM



#62
 4-Bromofluorobenzene
 Concen: 46.915 ug/l
 RT: 11.48 min Scan# 1111
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	165.2
176	71.3	0.0	161.0





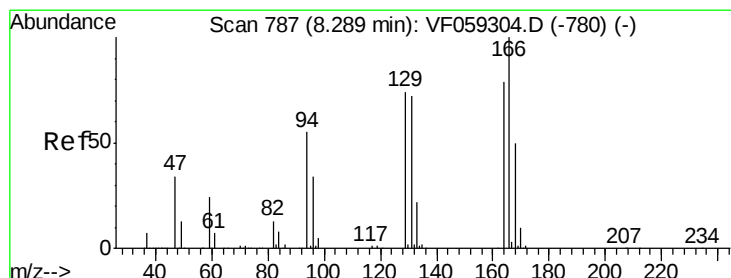
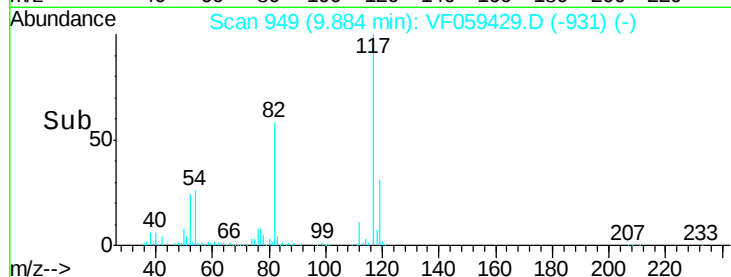
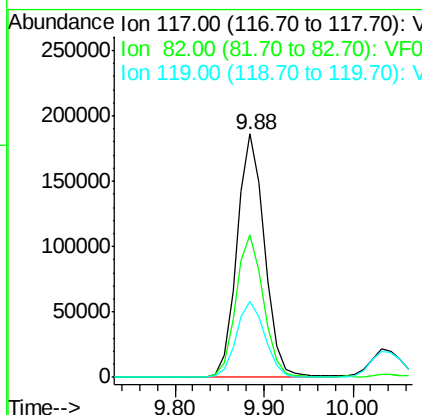
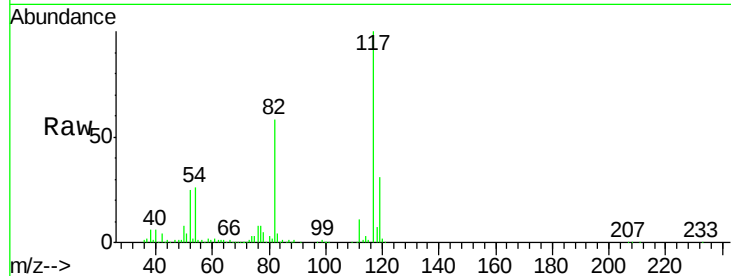
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.88 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.5	44.6	66.8
119	31.4	24.1	36.1

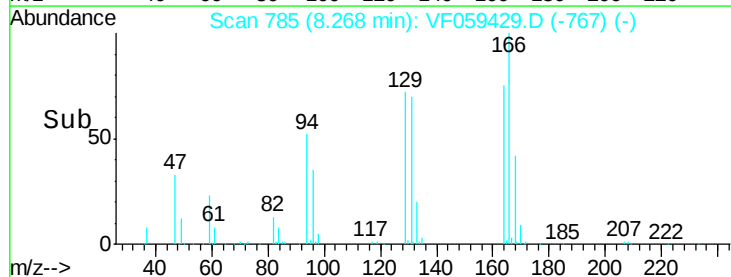
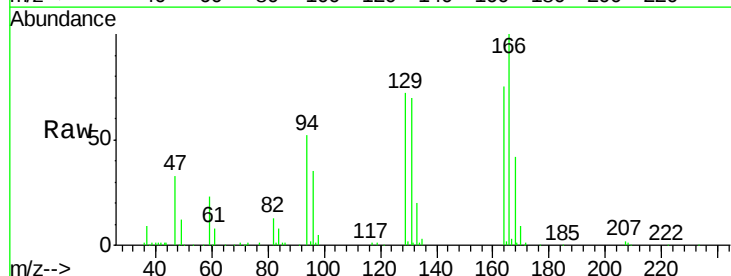
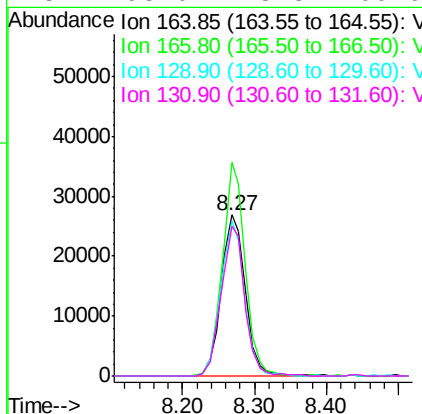
Manual Integrations
APPROVED

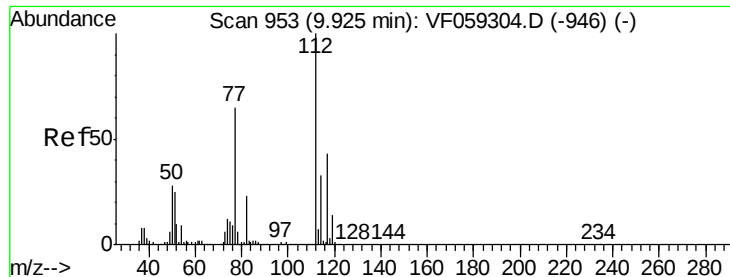
apatel
7/6/2018 10:00:31 AM



#64
Tetrachloroethene
Concen: 23.791 ug/l
RT: 8.27 min Scan# 785
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.6	101.1	151.7
129	96.1	75.0	112.4
131	93.0	73.3	109.9





#65

Chlorobenzene

Concen: 22.333 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion:112 Resp: 165629

Ion Ratio Lower Upper

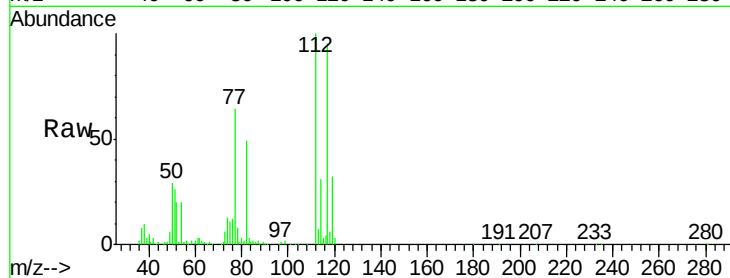
112 100

114 31.0 26.5 39.7

Manual Integrations
APPROVED

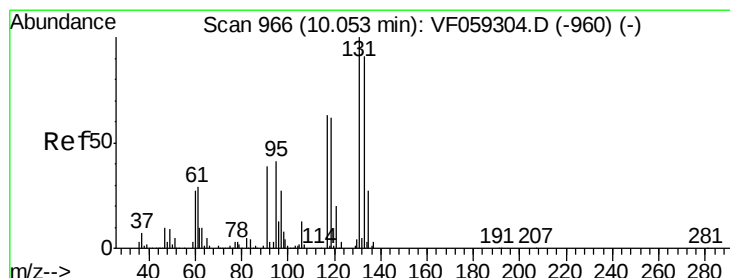
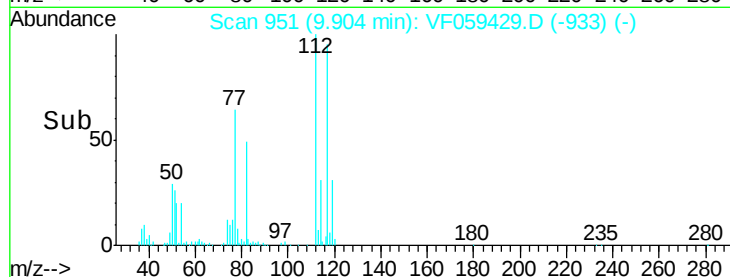
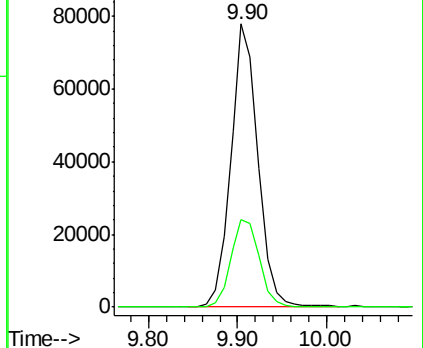
apatel

7/6/2018 10:00:31 AM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.636 ug/l

RT: 10.04 min Scan# 965

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

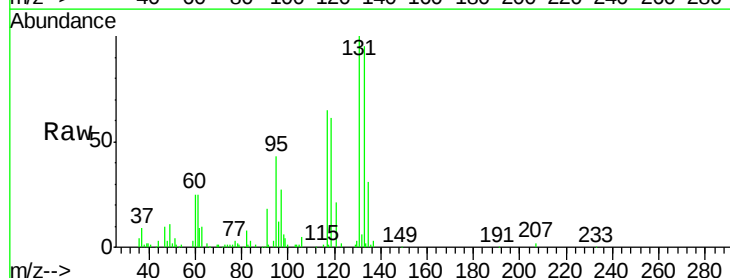
Tgt Ion:131 Resp: 72607

Ion Ratio Lower Upper

131 100

133 96.8 45.3 135.9

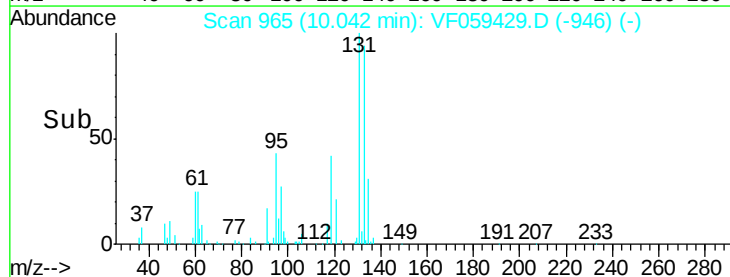
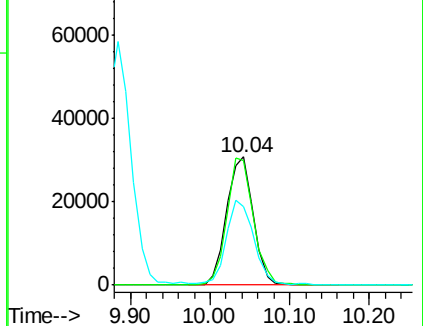
119 60.7 31.3 93.9

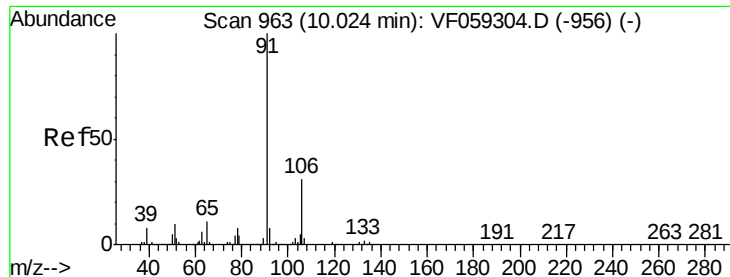


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 22.548 ug/l

RT: 10.00 min Scan# 961

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 91 Resp: 283694

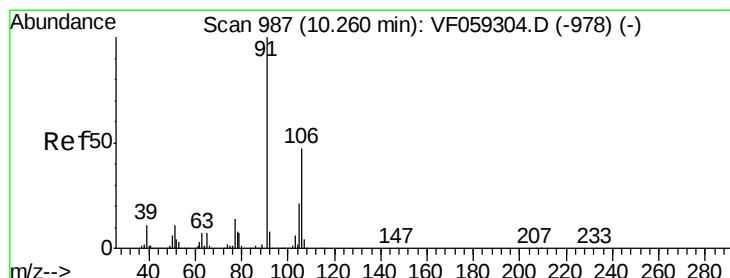
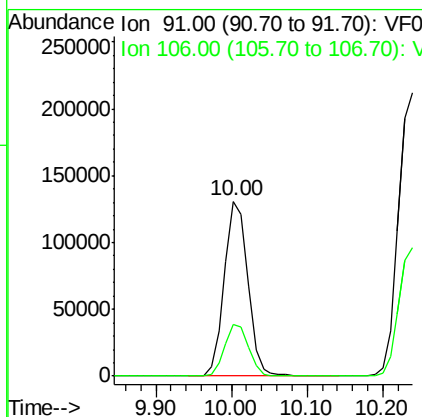
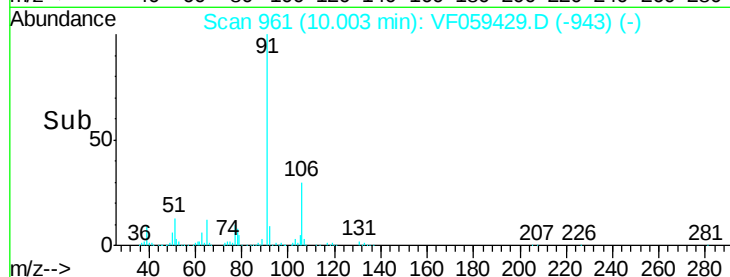
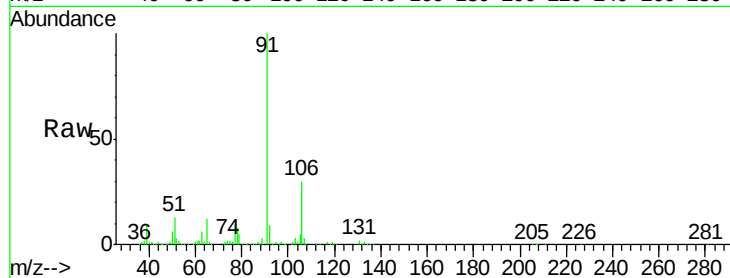
Ion Ratio Lower Upper

91 100

106 29.5 24.8 37.2

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#68

m/p-Xylenes

Concen: 45.513 ug/l

RT: 10.24 min Scan# 985

Delta R.T. -0.02 min

Lab File: VF059429.D

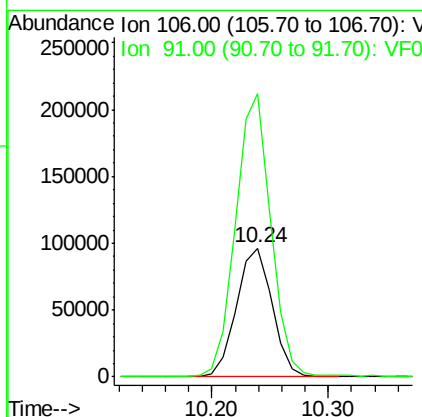
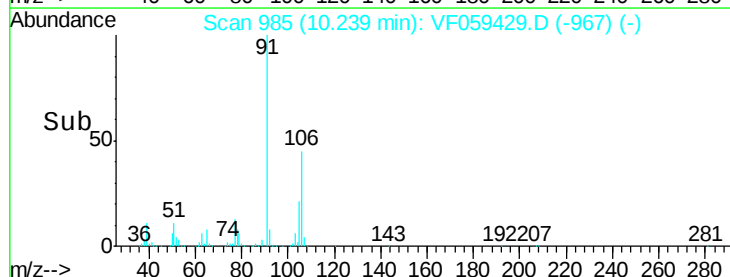
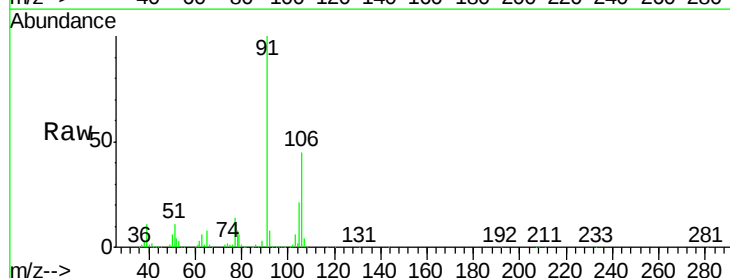
Acq: 5 Jul 2018 12:58

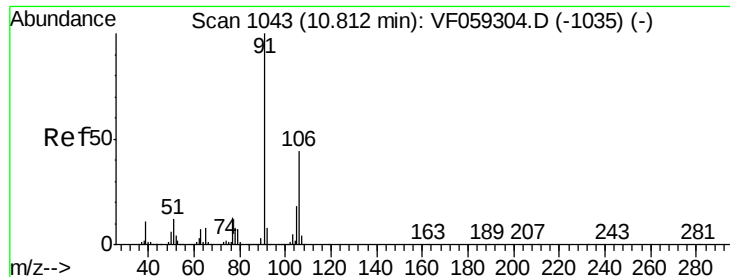
Tgt Ion: 106 Resp: 203814

Ion Ratio Lower Upper

106 100

91 219.9 170.8 256.2





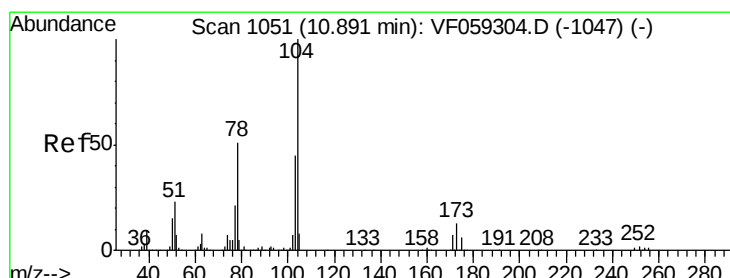
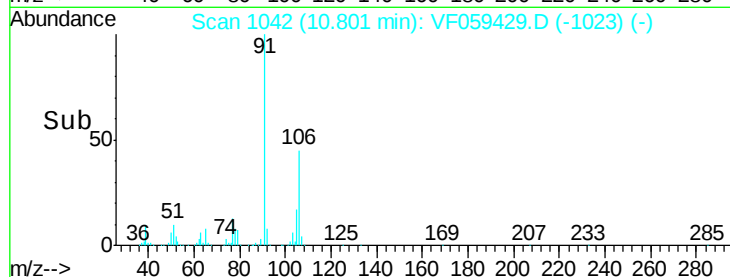
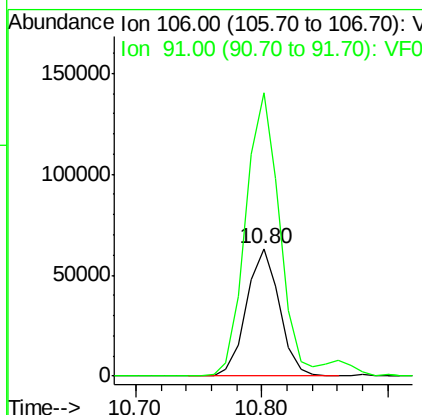
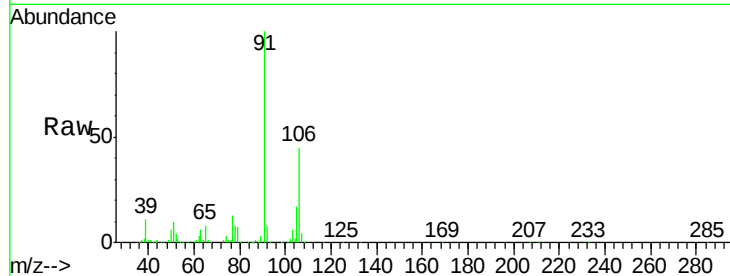
#69
o-Xylene
Concen: 22.871 ug/l
RT: 10.80 min Scan# 1042
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	221.4	114.6	343.6

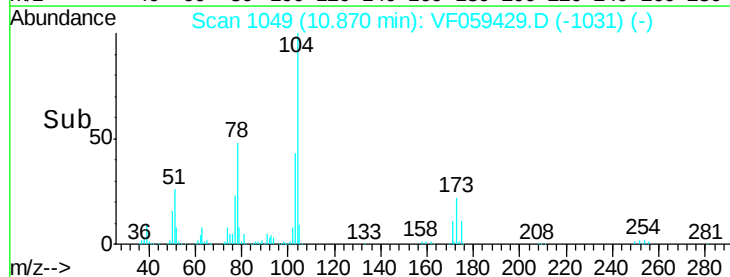
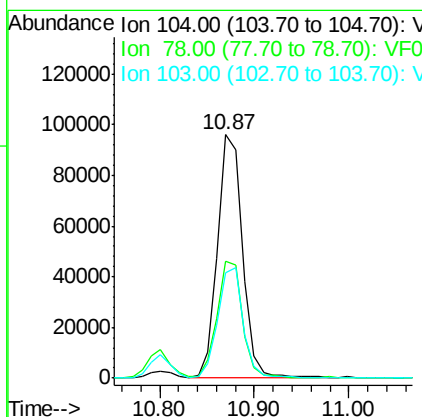
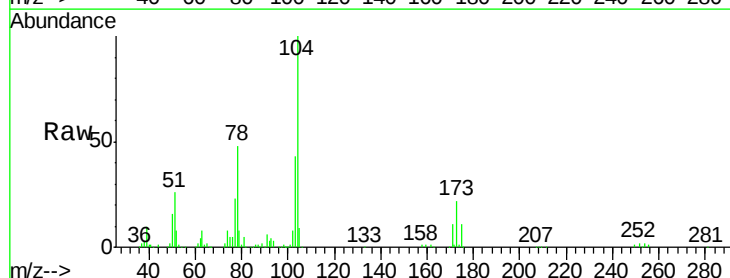
Manual Integrations
APPROVED

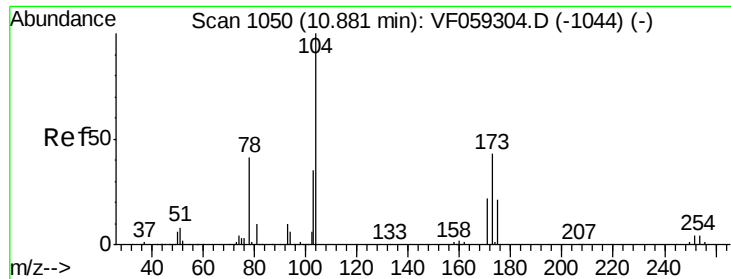
apatel
7/6/2018 10:00:31 AM



#70
Styrene
Concen: 22.996 ug/l
RT: 10.87 min Scan# 1049
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.9	40.9	61.3
103	43.4	36.5	54.7





#71

Bromoform

Concen: 23.068 ug/l

RT: 10.86 min Scan# 1048

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

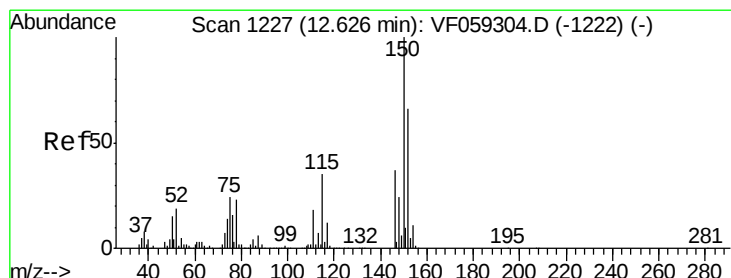
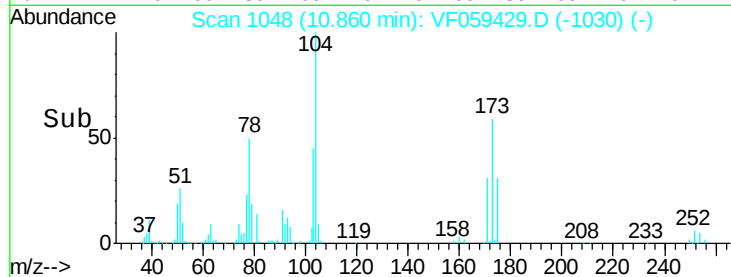
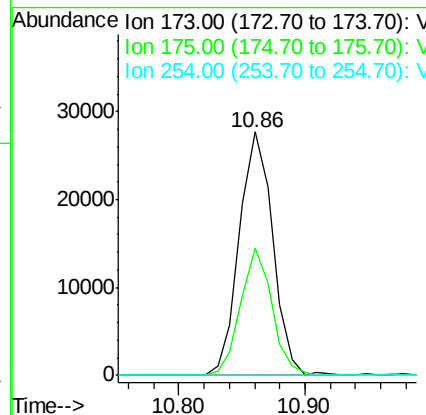
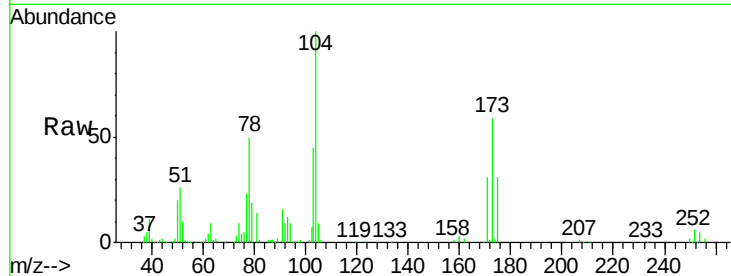
ClientSampleId :

VF0705SBS01

Tot Ion	Ion	Ratio	Lower	Upper
173	100			
175	52.0	24.8	74.3	
254	0.0	0.0	0.0	

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

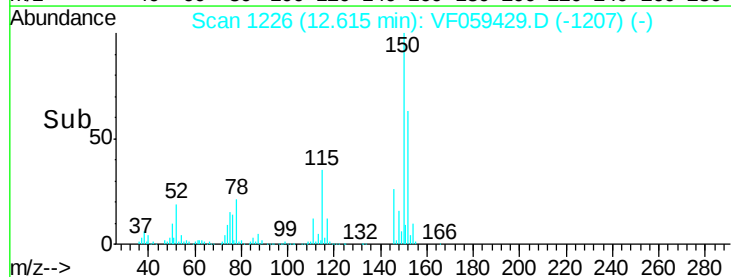
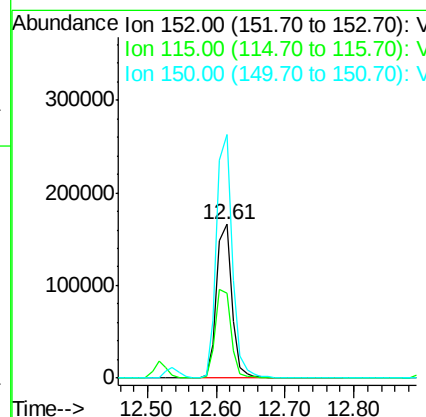
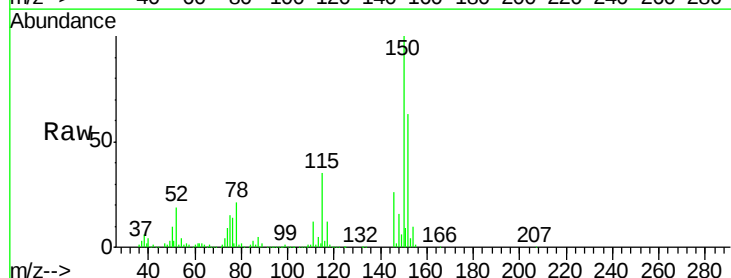
RT: 12.61 min Scan# 1226

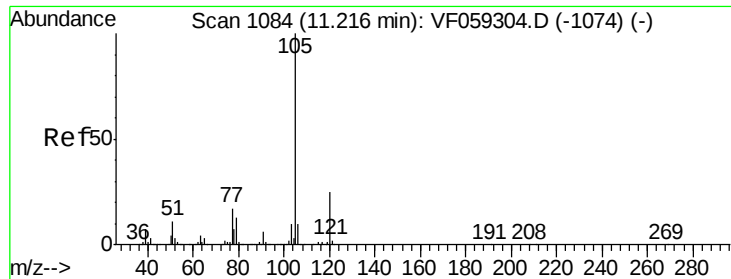
Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion	Ion	Ratio	Lower	Upper
152	100			
115	55.1	27.1	81.3	
150	158.5	0.0	305.2	





#73

Isopropylbenzene

Concen: 23.471 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion:105 Resp: 353303

Ion Ratio Lower Upper

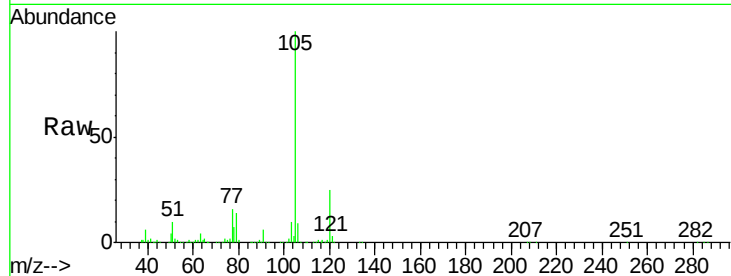
105 100

120 25.3 12.3 36.8

Manual Integrations
APPROVED

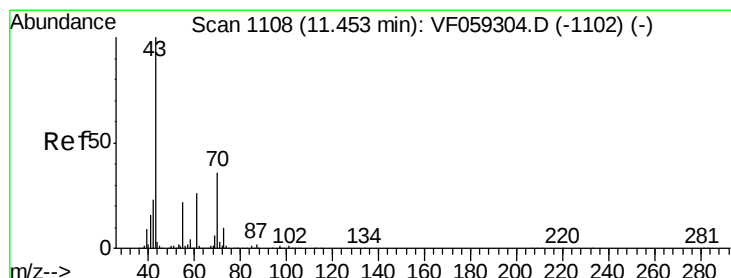
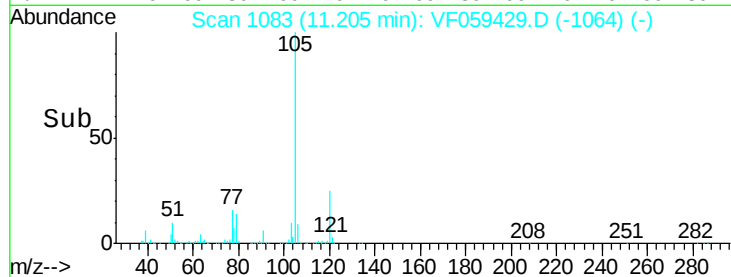
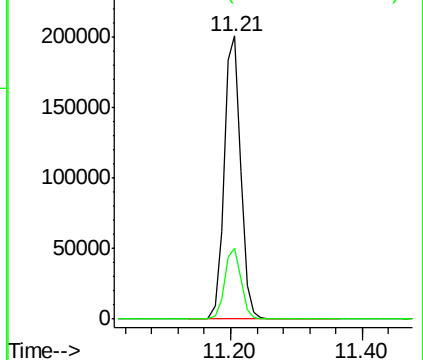
apatel

7/6/2018 10:00:31 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.544 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion: 43 Resp: 123144

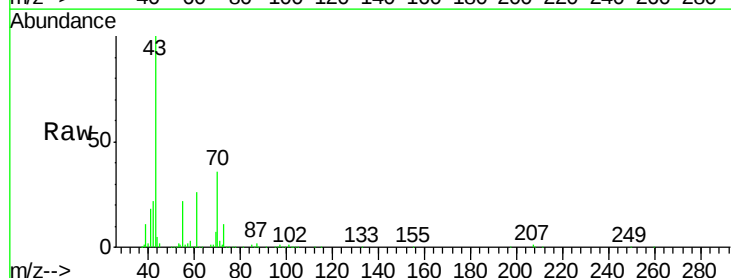
Ion Ratio Lower Upper

43 100

70 36.2 28.8 43.2

55 22.4 17.4 26.0

61 26.1 21.1 31.7

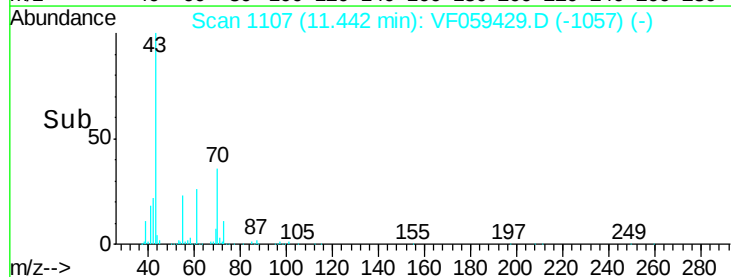
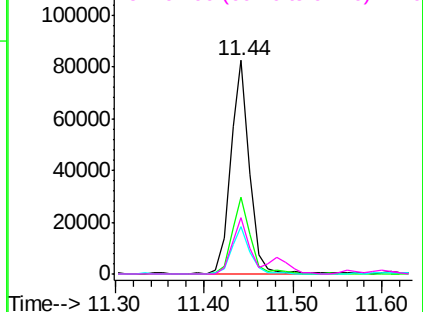


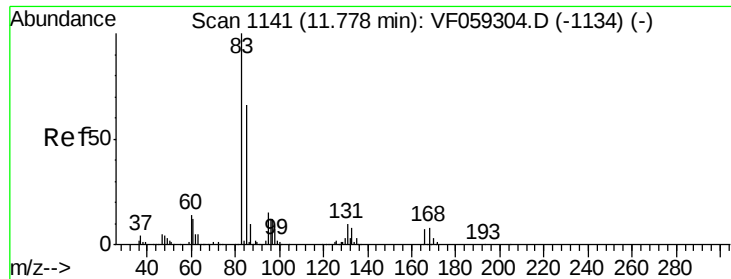
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 22.002 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

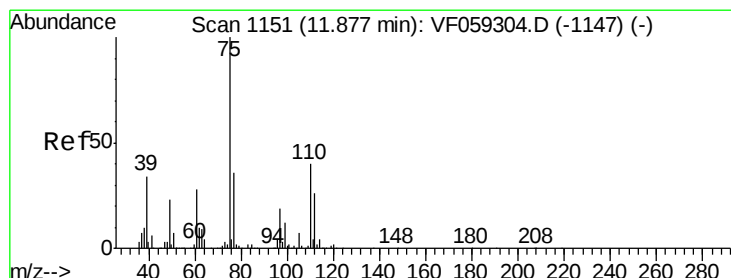
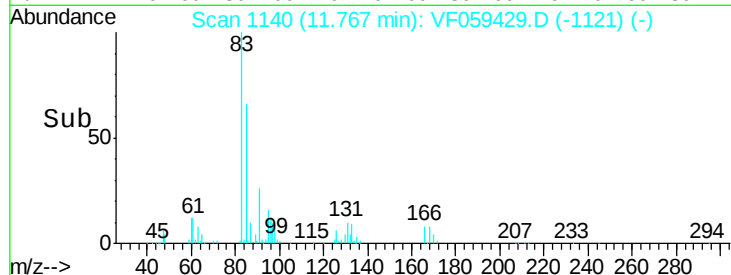
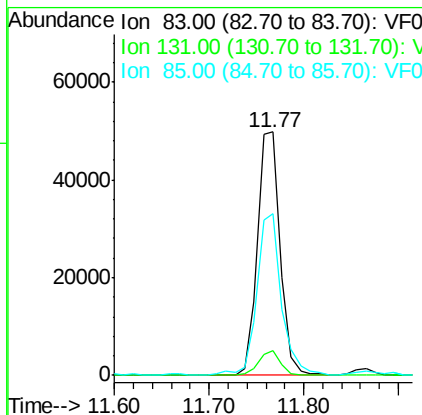
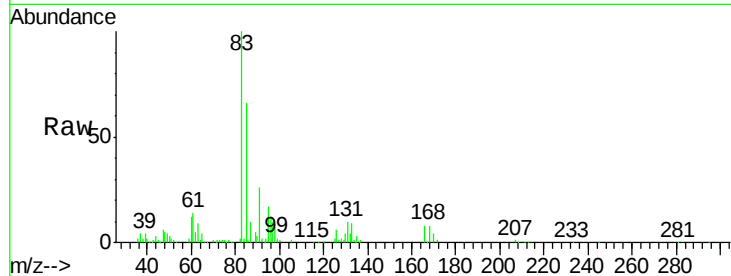
ClientSampleId :

VF0705SBS01

Tot Ion:	83	Resp:	83640
Ion Ratio	Lower	Upper	
83	100		
131	10.0	4.9	14.6
85	66.4	32.8	98.4

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#76

1,2,3-Trichloropropane

Concen: 22.074 ug/l

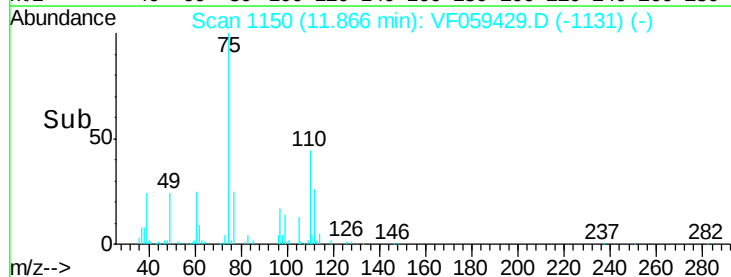
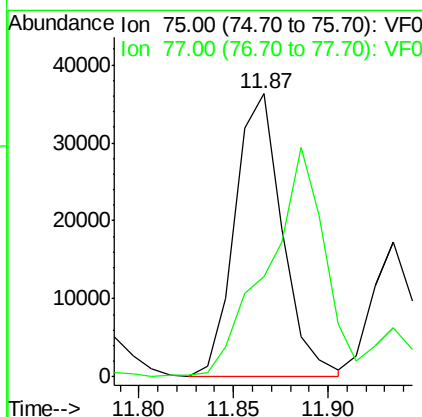
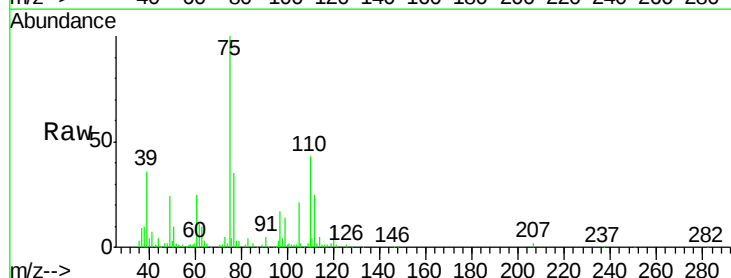
RT: 11.87 min Scan# 1150

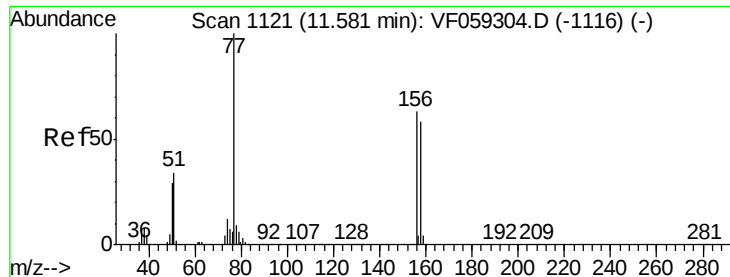
Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	75	Resp:	63299
Ion Ratio	Lower	Upper	
75	100		
77	35.4	18.0	54.0





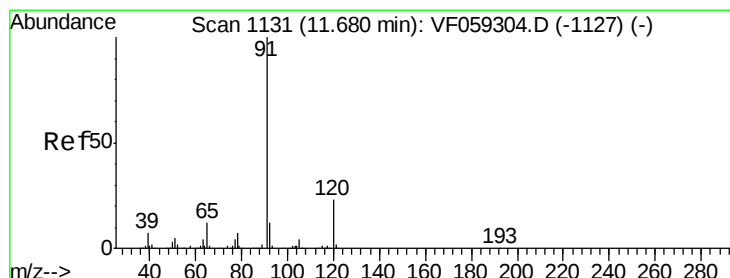
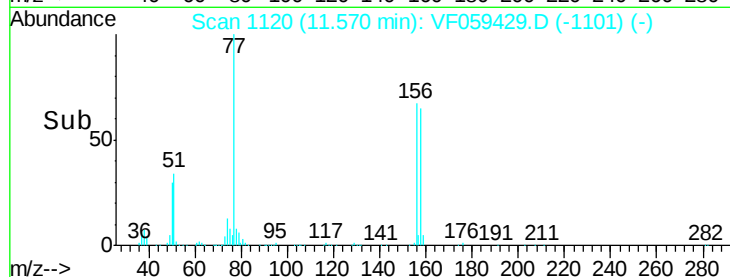
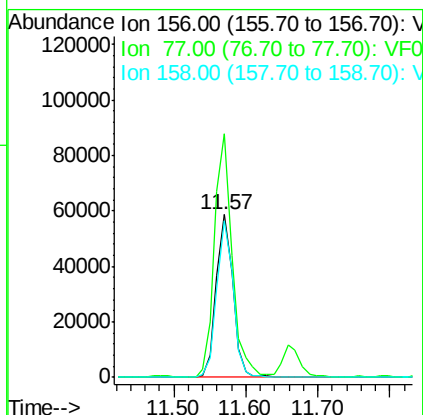
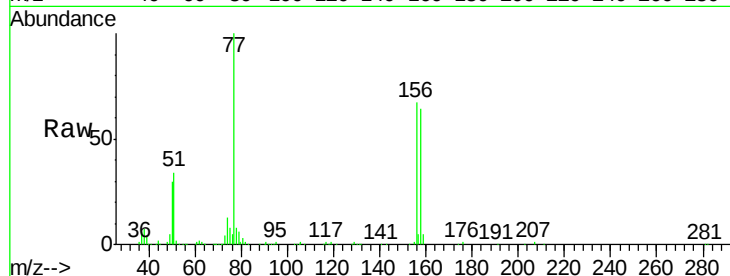
#77
Bromobenzene
Concen: 22.347 ug/l
RT: 11.57 min Scan# 1120
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	149.6	79.7	238.9	
158	96.3	46.2	138.6	

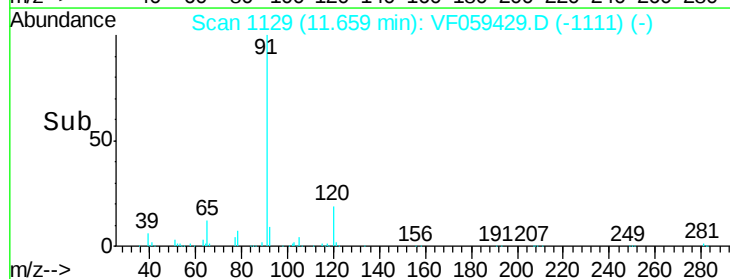
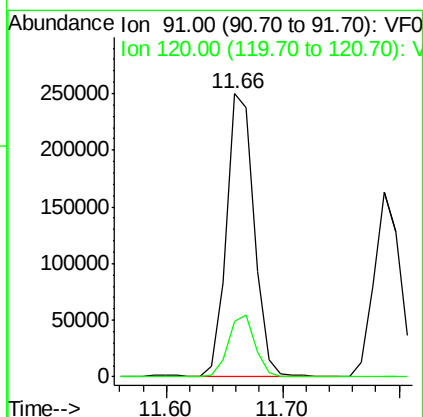
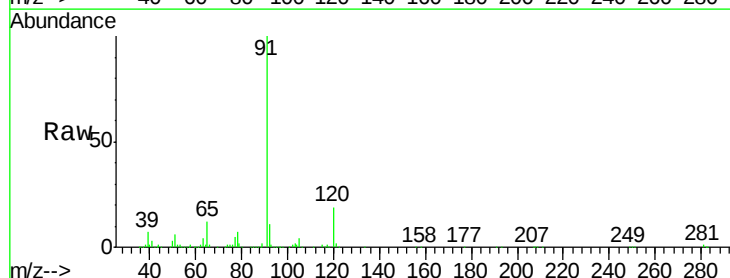
Manual Integrations
APPROVED

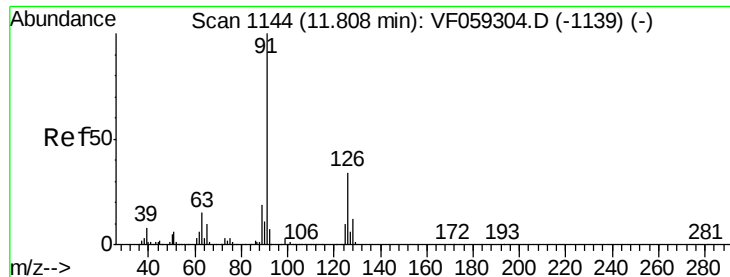
apatel
7/6/2018 10:00:31 AM



#78
n-propylbenzene
Concen: 22.650 ug/l
RT: 11.66 min Scan# 1129
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	19.4	11.7	35.0	





#79

2-Chlorotoluene

Concen: 22.856 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion: 91 Resp: 252436

Ion Ratio Lower Upper

91 100

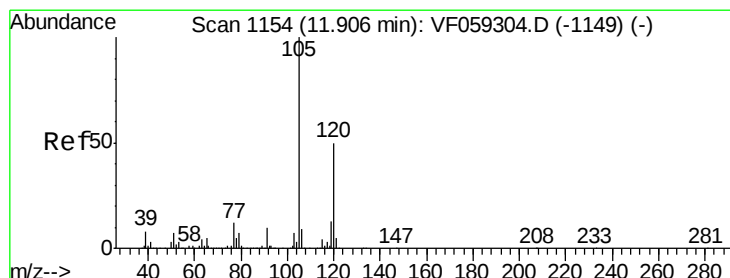
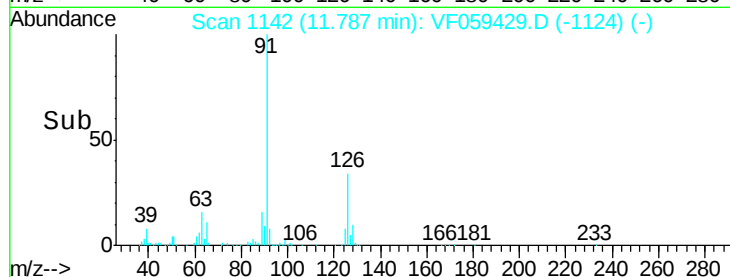
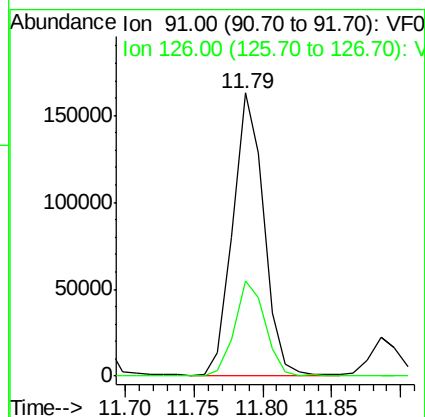
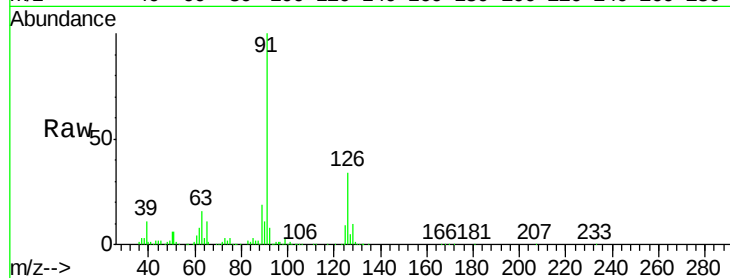
126 33.8 17.2 51.5

Manual Integrations

APPROVED

apatel

7/6/2018 10:00:31 AM



#80

1,3,5-Trimethylbenzene

Concen: 23.392 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.02 min

Lab File: VF059429.D

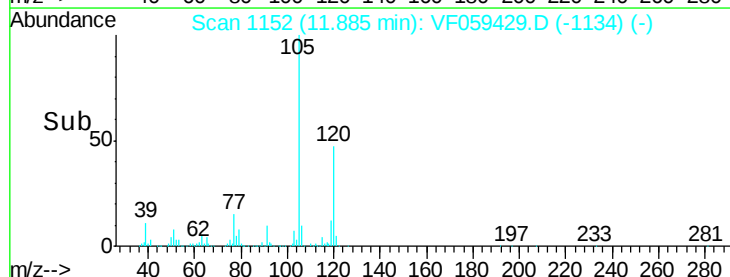
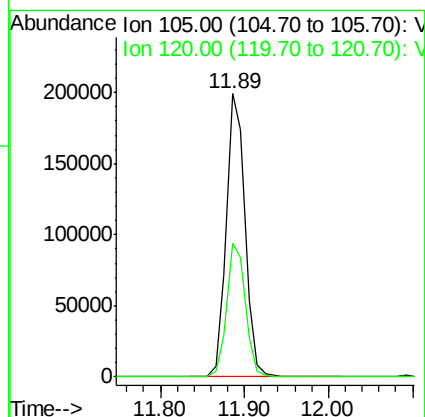
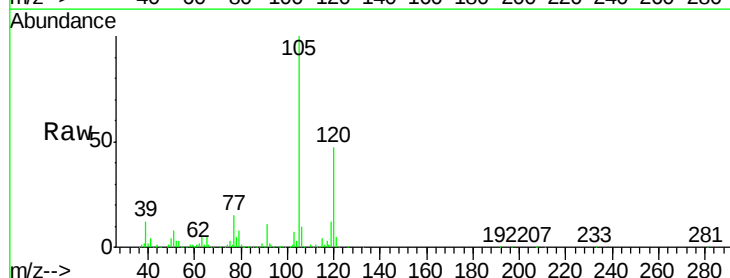
Acq: 5 Jul 2018 12:58

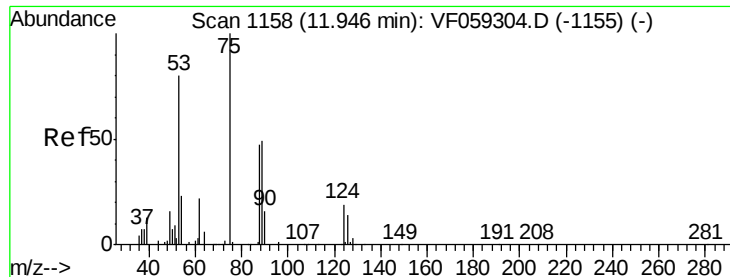
Tgt Ion:105 Resp: 308434

Ion Ratio Lower Upper

105 100

120 47.2 24.9 74.7





#81

trans-1,4-Dichloro-2-butene

Concen: 20.148 ug/l

RT: 11.93 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

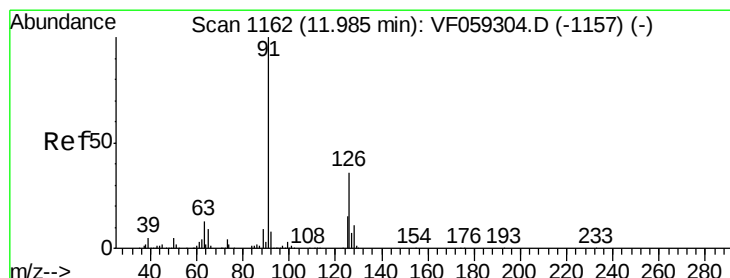
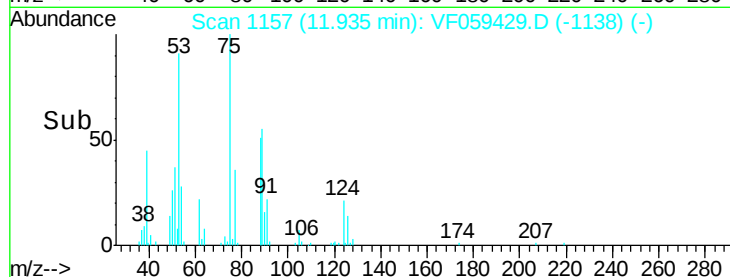
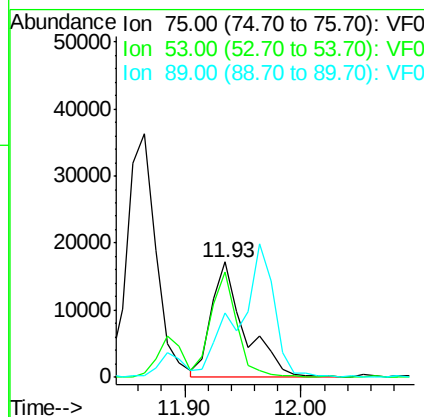
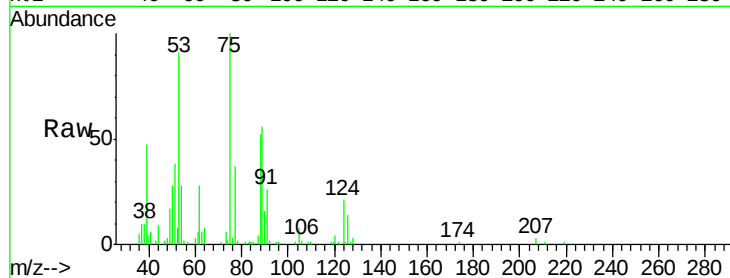
ClientSampleId :

VF0705SBS01

Tot Ion:	75	Resp:	34387
Ion Ratio	Lower	Upper	
75	100		
53	90.8	68.8	103.2
89	55.8	42.0	63.0

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#82

4-Chlorotoluene

Concen: 21.835 ug/l

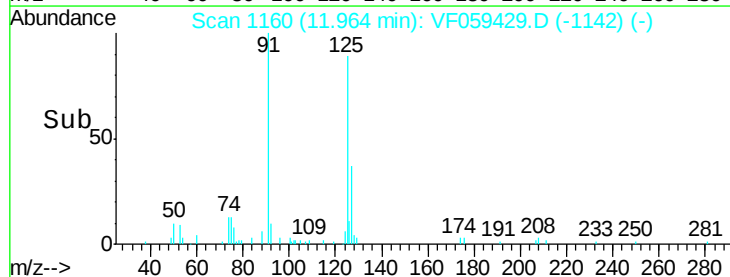
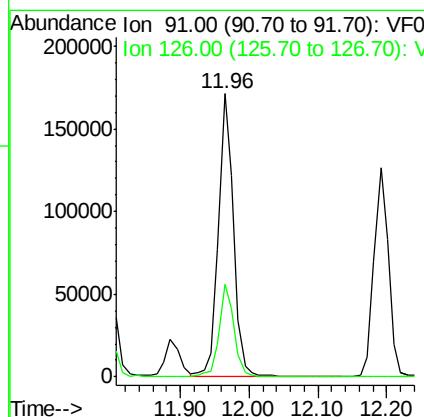
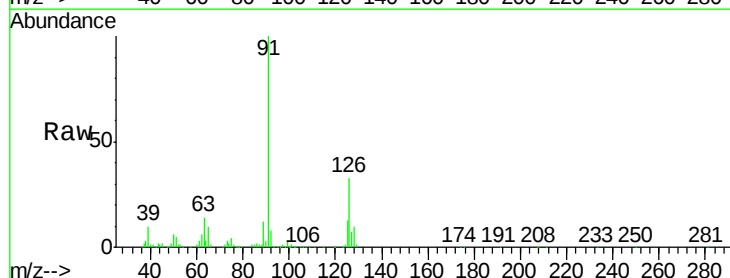
RT: 11.96 min Scan# 1160

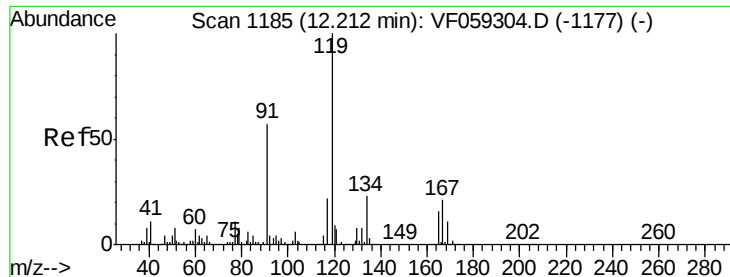
Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	91	Resp:	258305
Ion Ratio	Lower	Upper	
91	100		
126	32.7	18.2	54.6





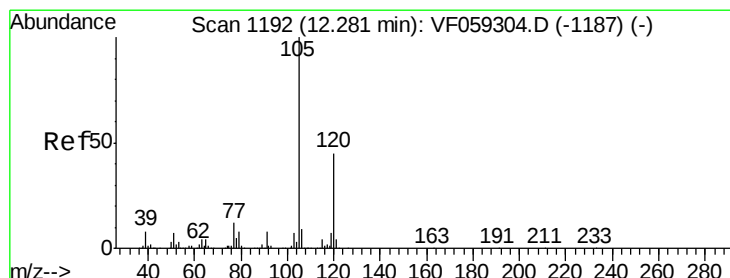
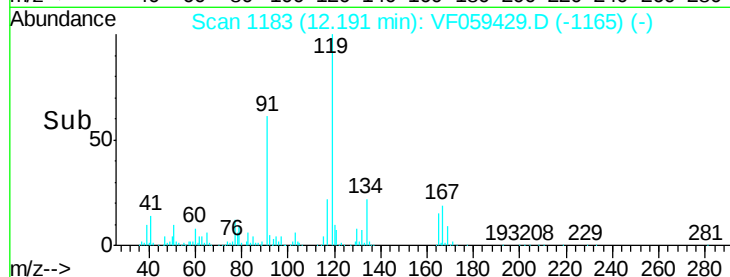
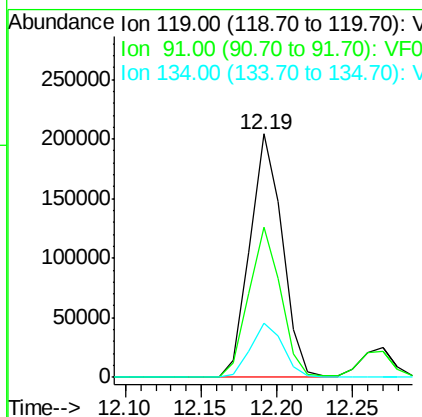
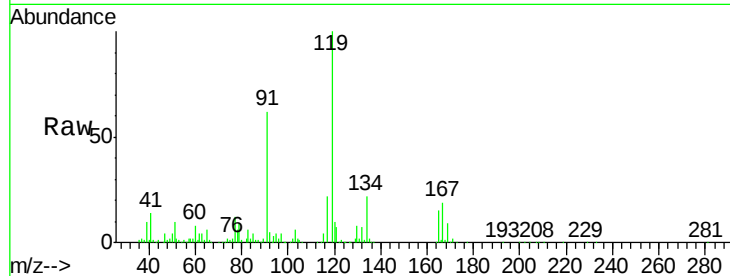
#83
 tert-Butylbenzene
 Concen: 23.358 ug/l
 RT: 12.19 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	308040		
91	61.8		28.4	85.2
134	22.2		11.7	35.1

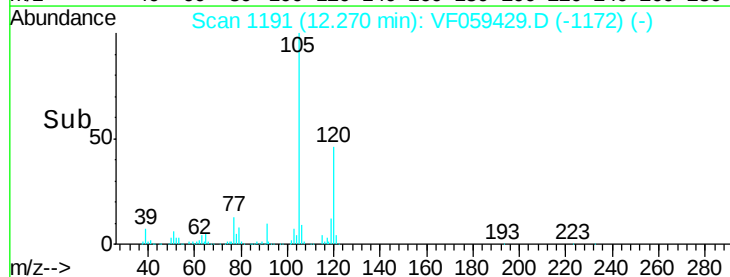
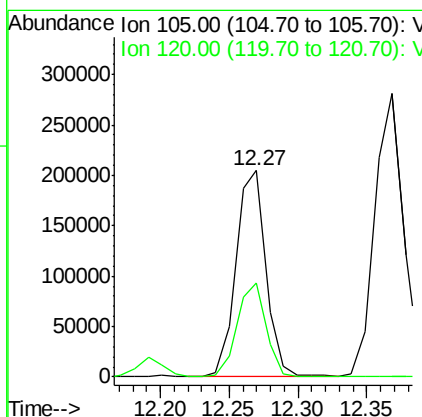
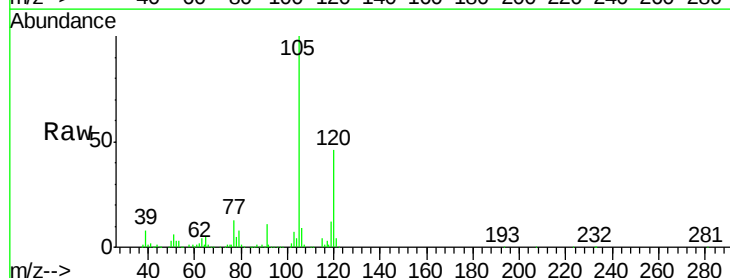
Manual Integrations
 APPROVED

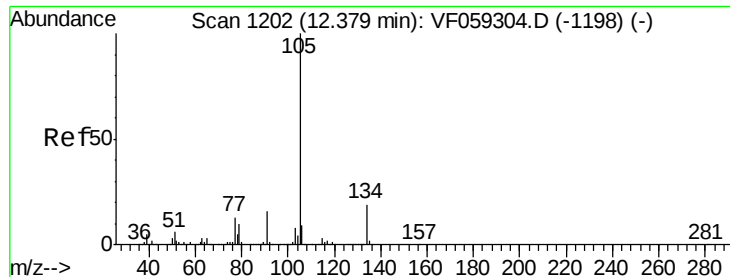
apatel
 7/6/2018 10:00:31 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.412 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	311229		
120	45.7		22.8	68.4





#85

sec-Butylbenzene

Concen: 23.419 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion:105 Resp: 409382

Ion Ratio Lower Upper

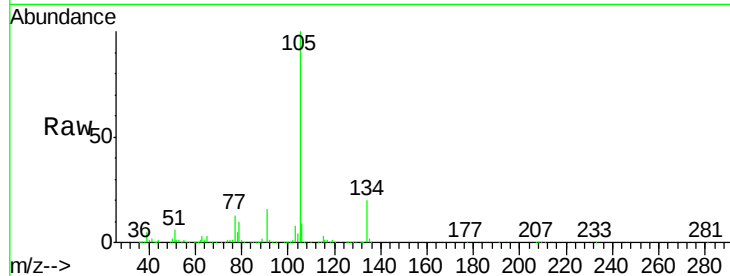
105 100

134 19.7 9.4 28.3

Manual Integrations
APPROVED

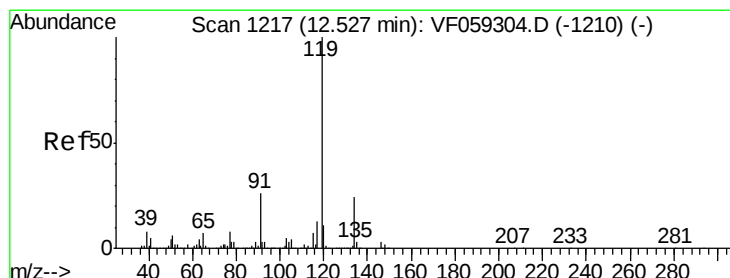
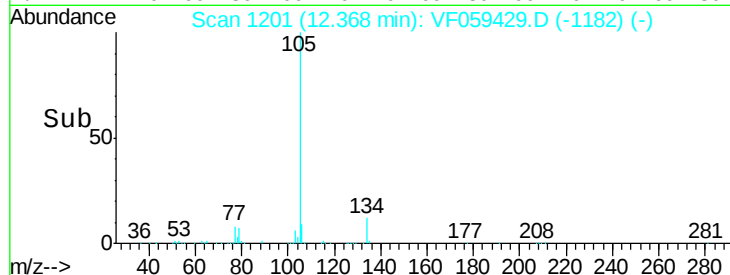
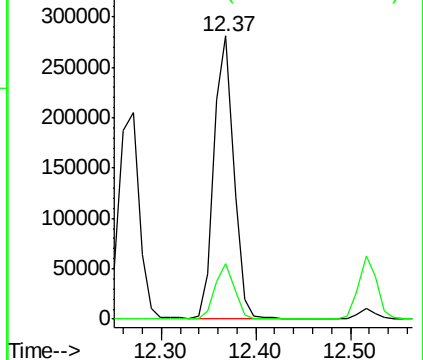
apatel

7/6/2018 10:00:31 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.493 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

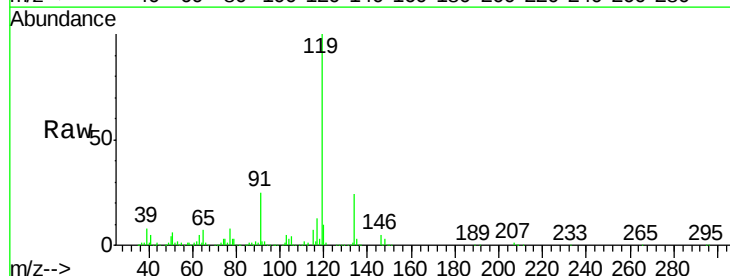
Tgt Ion:119 Resp: 344642

Ion Ratio Lower Upper

119 100

134 24.3 12.2 36.4

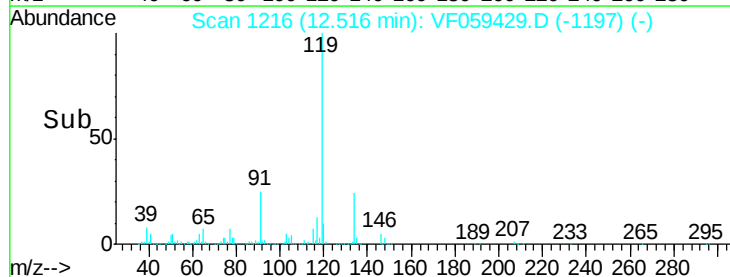
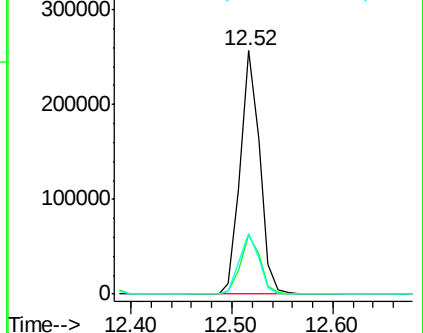
91 25.0 12.9 38.6

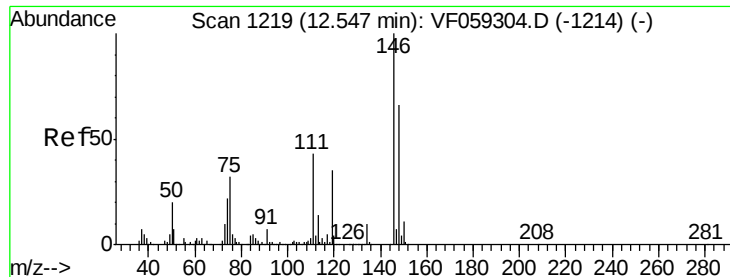


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





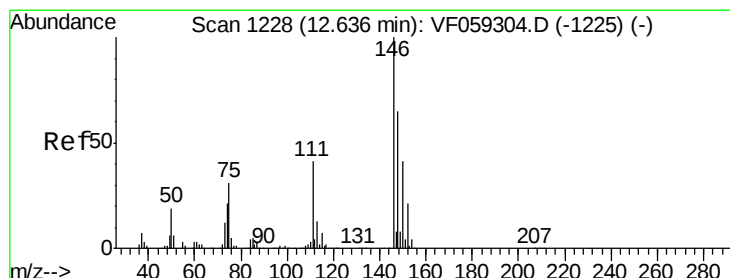
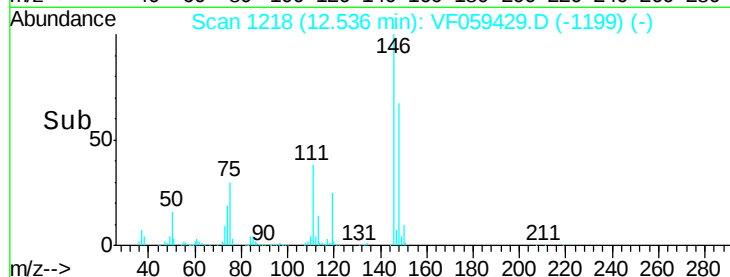
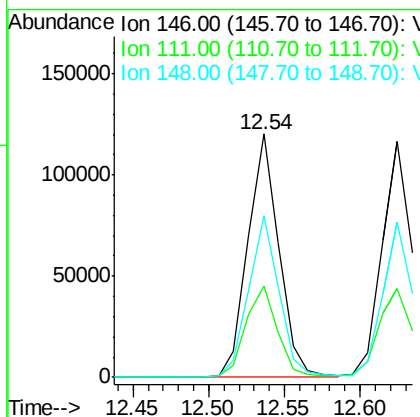
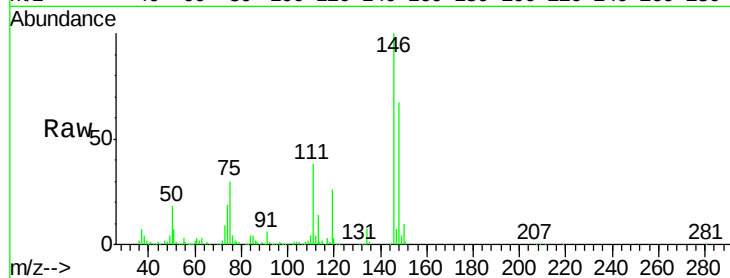
#87
 1,3-Dichlorobenzene
 Concen: 22.567 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	21.4	64.2
148	66.6	32.8	98.4

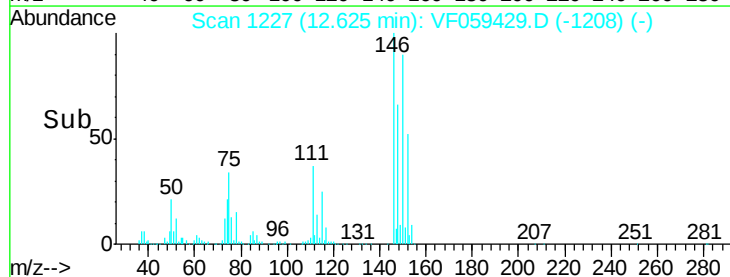
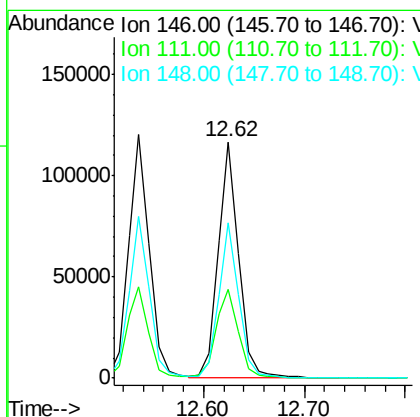
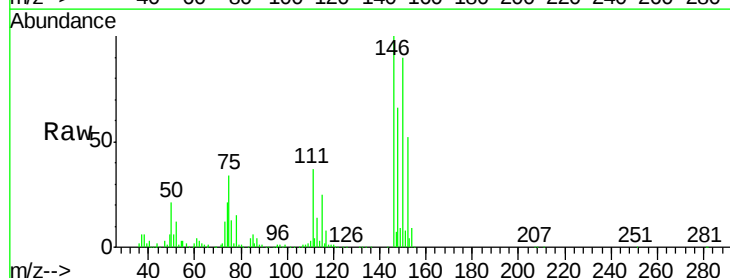
Manual Integrations
 APPROVED

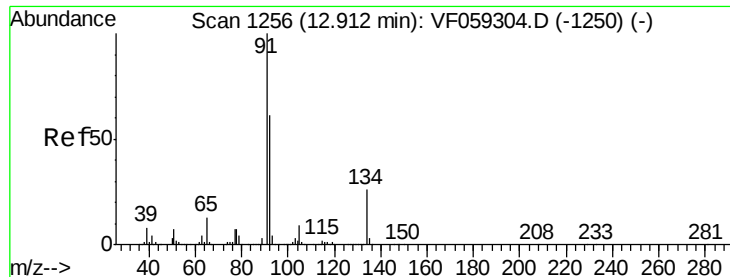
apatel
 7/6/2018 10:00:31 AM



#88
 1,4-Dichlorobenzene
 Concen: 22.244 ug/l
 RT: 12.62 min Scan# 1227
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	20.7	62.1
148	65.8	32.8	98.3





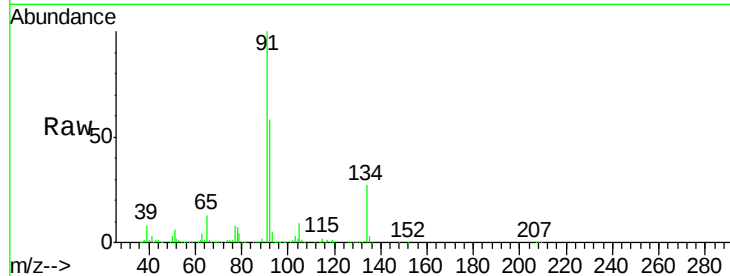
#89
n-Butylbenzene
Concen: 24.078 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0705SBS01

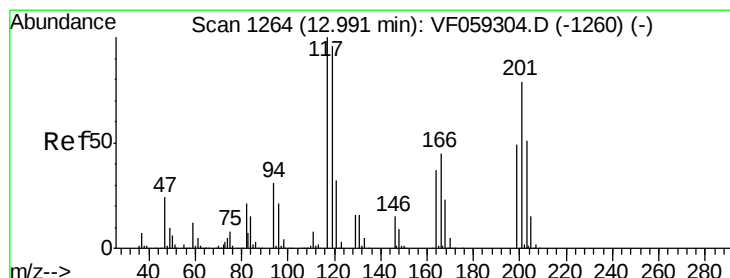
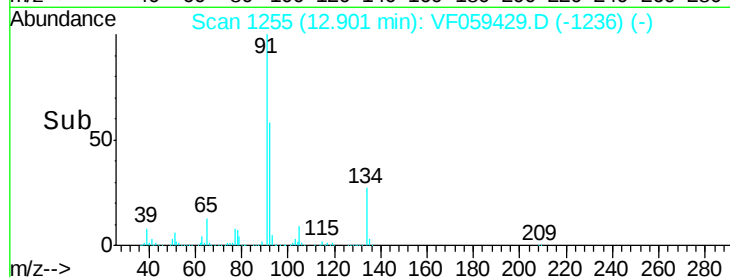
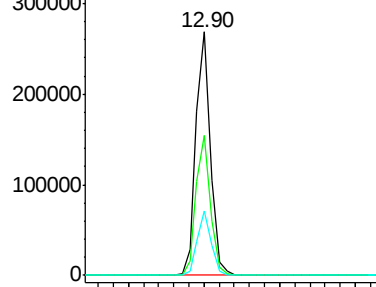
Tot Ion	Ratio	Lower	Upper
91	100		
92	57.7	30.3	91.0
134	26.6	12.9	38.7

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM

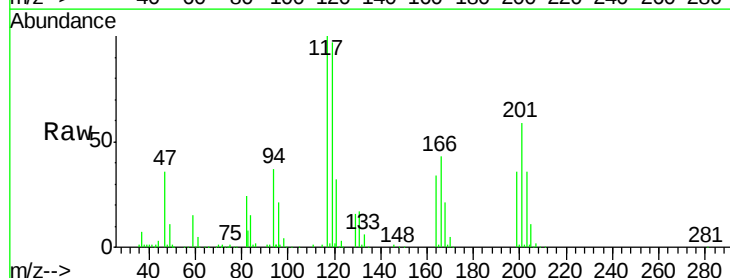


Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 92.00 (91.70 to 92.70): VF0
Ion 134.00 (133.70 to 134.70): V

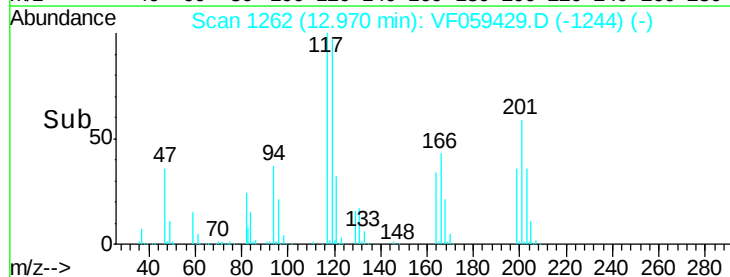
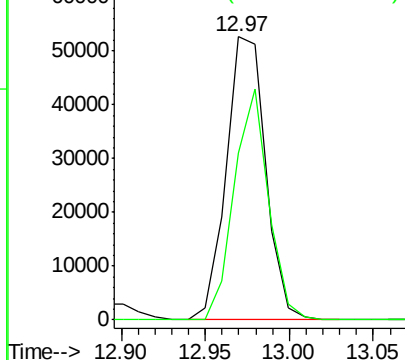


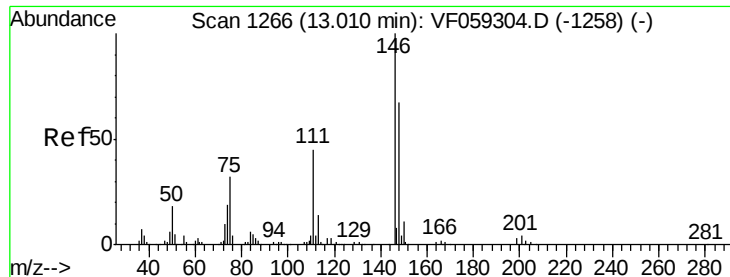
#90
Hexachloroethane
Concen: 23.430 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Lower	Upper
117	100		
201	58.8	39.5	118.5



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 22.563 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0705SBS01

Tot Ion:146 Resp: 171063

Ion Ratio Lower Upper

146 100

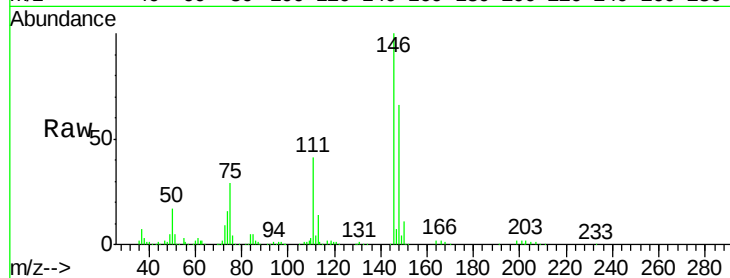
111 40.5 22.7 68.0

148 65.9 33.5 100.4

Manual Integrations
APPROVED

apatel

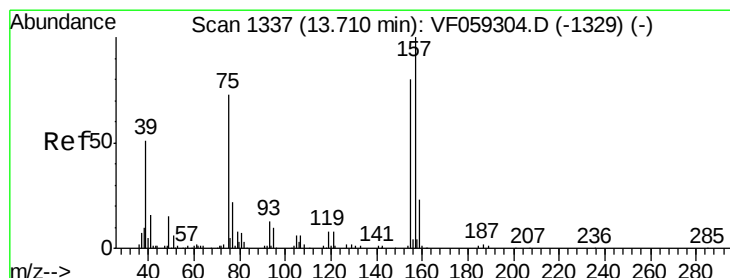
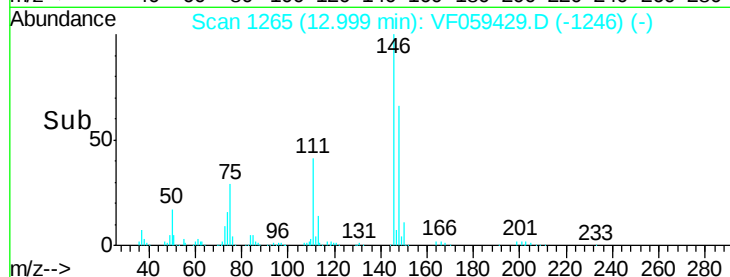
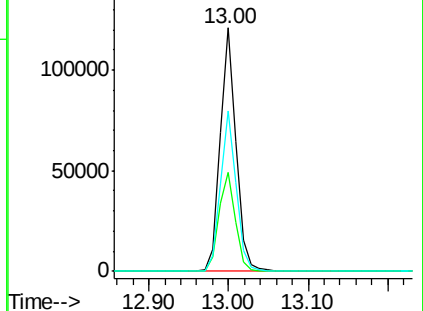
7/6/2018 10:00:31 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.438 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

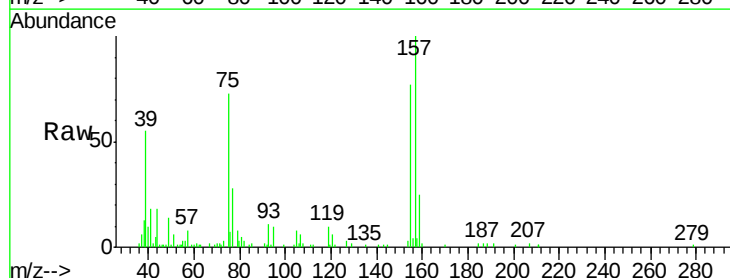
Tgt Ion: 75 Resp: 16381

Ion Ratio Lower Upper

75 100

155 104.7 54.6 163.8

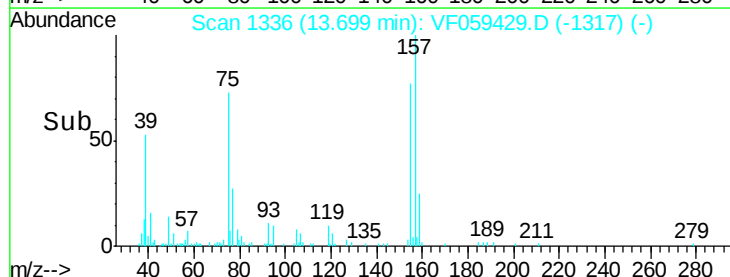
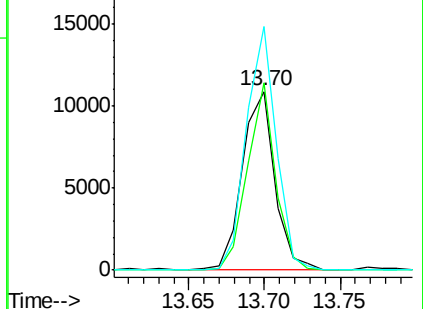
157 136.1 68.7 205.9

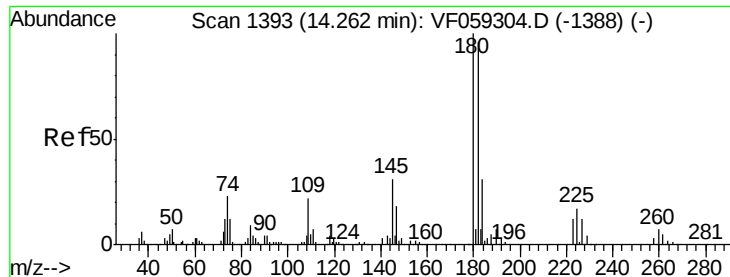


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





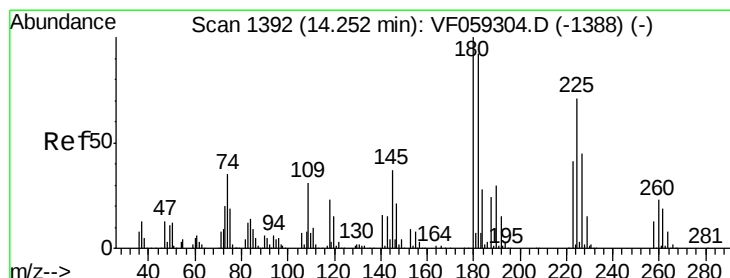
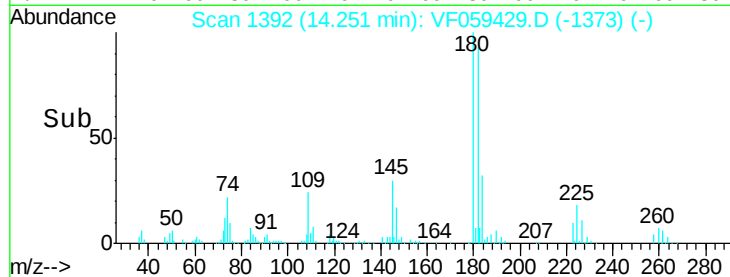
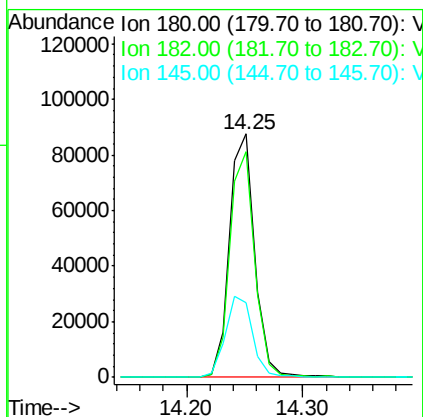
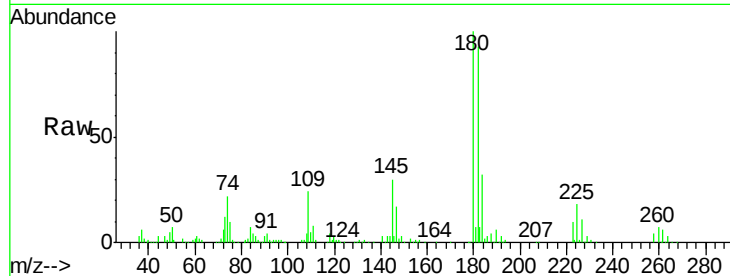
#93
 1,2,4-Trichlorobenzene
 Concen: 23.593 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0705SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	132260		
182	92.7	48.1	144.3	
145	30.5	15.3	45.8	

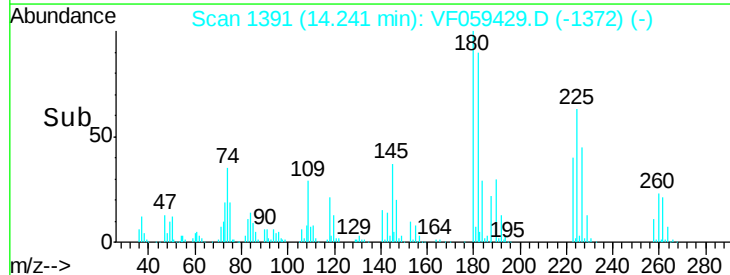
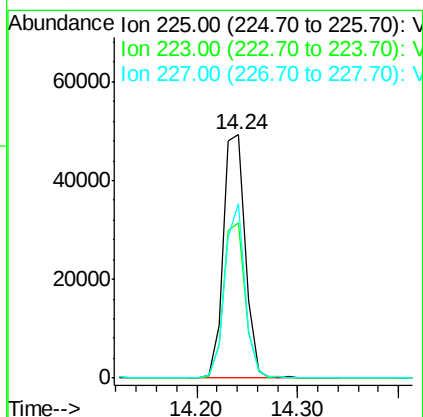
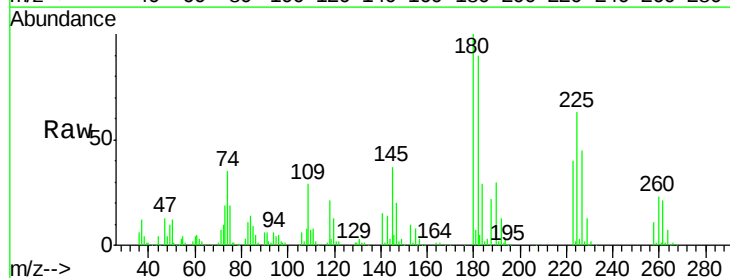
Manual Integrations
 APPROVED

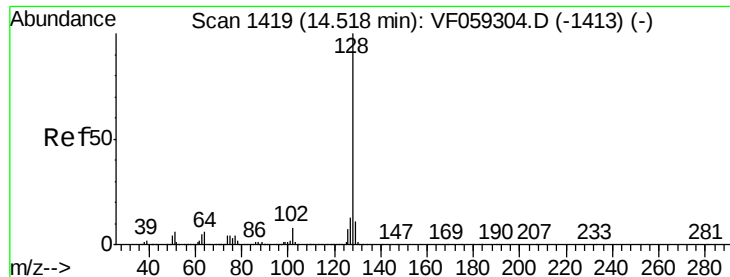
apatel
 7/6/2018 10:00:31 AM



#94
 Hexachlorobutadiene
 Concen: 23.990 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	75118		
223	64.0	28.9	86.8	
227	71.5	31.3	93.8	





#95

Naphthalene

Concen: 22.012 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

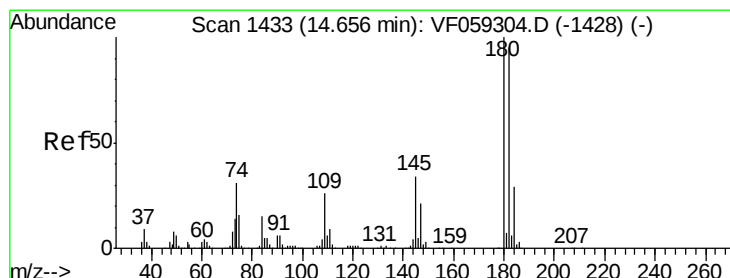
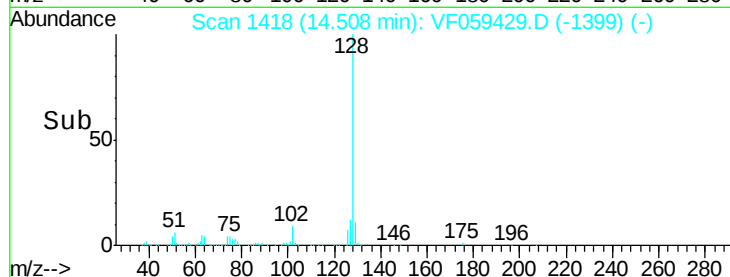
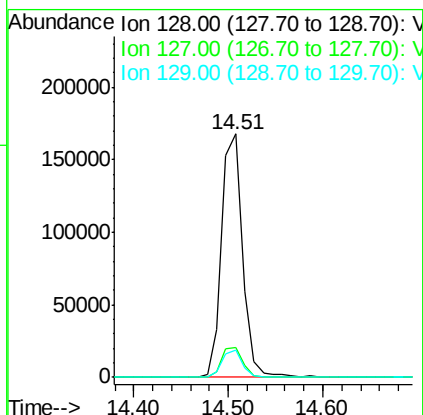
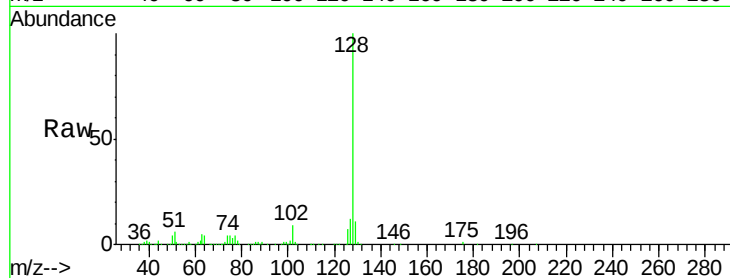
ClientSampleId :

VF0705SBS01

Tot Ion:	128	Resp:	258182
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.1	15.1
129	11.3	8.8	13.2

Manual Integrations
APPROVED

apatel
7/6/2018 10:00:31 AM



#96

1,2,3-Trichlorobenzene

Concen: 22.373 ug/l

RT: 14.65 min Scan# 1432

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:	180	Resp:	118815
Ion Ratio	Lower	Upper	
180	100		
182	98.4	47.5	142.5
145	34.0	17.0	50.9

