

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011519\
 Data File : VF061411.D
 Acq On : 15 Jan 2019 17:50
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ICSVF011519

Manual Integrations
 APPROVED

apatel
 1/16/2019 4:06:13 PM

Quant Time: Jan 16 05:52:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	191813	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	336582	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	311185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	147293	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	111127	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	
35) Dibromofluoromethane	4.10	113	127719	48.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.18%	
50) Toluene-d8	7.55	98	384908	52.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.80%	
62) 4-Bromofluorobenzene	11.41	95	158252	46.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.95	85	179728	47.688	ug/l	90
3) Chloromethane	1.09	50	132531	47.958	ug/l	97
4) Vinyl Chloride	1.13	62	116191	47.266	ug/l	97
5) Bromomethane	1.33	94	80943	50.495	ug/l	94
6) Chloroethane	1.38	64	56689	52.044	ug/l	94
7) Trichlorofluoromethane	1.48	101	223940	46.860	ug/l	93
8) Diethyl Ether	1.62	74	28580	46.673	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	1.82	101	109664	47.758	ug/l	99
10) Methyl Iodide	1.90	142	181480m	50.980	ug/l	
11) Tert butyl alcohol	2.56	59	25267	252.064	ug/l	97
12) 1,1-Dichloroethene	1.78	96	91643	53.719	ug/l	93
13) Acrolein	1.99	56	23498	271.236	ug/l	93
14) Allyl chloride	2.09	41	150057	75.989	ug/l	92
15) Acrylonitrile	2.94	53	63562	247.548	ug/l	99
16) Acetone	2.23	43	103172	217.166	ug/l	97
17) Carbon Disulfide	1.81	76	280856	52.799	ug/l	99
18) Methyl Acetate	2.33	43	46472	49.325	ug/l	96
19) Methyl tert-butyl Ether	2.42	73	183596	48.007	ug/l	95
20) Methylene Chloride	2.17	84	86621m	53.847	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	94337	50.260	ug/l	97
22) Diisopropyl ether	2.79	45	311956	51.385	ug/l	99
23) Vinyl Acetate	3.18	43	766261	286.482	ug/l	100
24) 1,1-Dichloroethane	2.86	63	190880	50.096	ug/l	96
25) 2-Butanone	4.33	43	192046	243.082	ug/l	98
26) 2,2-Dichloropropane	3.59	77	103846	44.359	ug/l	96
27) cis-1,2-Dichloroethene	3.47	96	138689	50.055	ug/l	96
28) Bromochloromethane	3.71	49	88038	51.401	ug/l #	94
29) Tetrahydrofuran	4.06	42	80964	237.998	ug/l	96
30) Chloroform	3.85	83	248409	48.307	ug/l	95
31) Cyclohexane	3.69	56	205027	53.867	ug/l	95
32) 1,1,1-Trichloroethane	4.08	97	184348	48.892	ug/l	96
36) 1,1-Dichloropropene	4.27	75	194387	49.811	ug/l	96
37) Ethyl Acetate	4.11	43	77243	49.516	ug/l #	74
38) Carbon Tetrachloride	3.98	117	151959	44.540	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011519\
 Data File : VF061411.D
 Acq On : 15 Jan 2019 17:50
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVV011519

Manual Integrations
 APPROVED

apatel
 1/16/2019 4:06:13 PM

Quant Time: Jan 16 05:52:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	223193	52.774	ug/l	97
40) Benzene	4.62	78	426502	49.115	ug/l	99
41) Methacrylonitrile	4.73	41	37268	44.898	ug/l	91
42) 1,2-Dichloroethane	4.94	62	149279	48.242	ug/l	96
43) Isopropyl Acetate	6.95	43	103143	52.682	ug/l	94
44) Trichloroethene	5.50	130	134993	50.676	ug/l	99
45) 1,2-Dichloropropane	6.23	63	114811	50.376	ug/l	95
46) Dibromomethane	6.08	93	74650	49.260	ug/l	98
47) Bromodichloromethane	6.38	83	186226	49.667	ug/l	96
48) Methyl methacrylate	6.71	41	63132	48.020	ug/l	92
49) 1,4-Dioxane	6.70	88	10186	1118.127	ug/l #	79
51) 4-Methyl-2-Pentanone	8.25	43	357362	248.283	ug/l	100
52) Toluene	7.62	92	274975	48.085	ug/l	100
53) t-1,3-Dichloropropene	8.27	75	151257	50.803	ug/l	95
54) cis-1,3-Dichloropropene	7.30	75	200720	53.934	ug/l	98
55) 1,1,2-Trichloroethane	8.49	97	84666	52.137	ug/l	94
56) Ethyl methacrylate	8.62	69	93520	49.500	ug/l	99
57) 1,3-Dichloropropane	8.85	76	145724	47.876	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.29	63	54229	271.113	ug/l	96
59) 2-Hexanone	9.49	43	242293	241.406	ug/l	98
60) Dibromochloromethane	8.71	129	117259	49.392	ug/l	95
61) 1,2-Dibromoethane	8.98	107	89422	48.101	ug/l	90
64) Tetrachloroethene	8.14	164	116167	49.641	ug/l	96
65) Chlorobenzene	9.79	112	323727	51.157	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	124558	49.410	ug/l	97
67) Ethyl Benzene	9.90	91	572539	49.520	ug/l	100
68) m/p-Xylenes	10.13	106	394116	94.775	ug/l	99
69) o-Xylene	10.71	106	230970	51.247	ug/l	95
70) Styrene	10.79	104	293340	47.548	ug/l	98
71) Bromoform	10.77	173	55508	49.006	ug/l #	98
73) Isopropylbenzene	11.12	105	634688	52.981	ug/l	97
74) N-amyl acetate	11.37	43	154268	54.459	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.70	83	107810	50.517	ug/l	98
76) 1,2,3-Trichloropropane	11.79	75	76227	49.709	ug/l	97
77) Bromobenzene	11.49	156	138517	54.750	ug/l	86
78) n-propylbenzene	11.59	91	736692	50.561	ug/l	98
79) 2-Chlorotoluene	11.72	91	428948	51.607	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	499043	51.620	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	32085m	48.131	ug/l	
82) 4-Chlorotoluene	11.89	91	429087	51.158	ug/l	97
83) tert-Butylbenzene	12.13	119	534330	53.399	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	506545	50.867	ug/l	99
85) sec-Butylbenzene	12.31	105	707465	52.062	ug/l	98
86) p-Isopropyltoluene	12.46	119	580382	52.029	ug/l	97
87) 1,3-Dichlorobenzene	12.48	146	247908	49.206	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	248080	51.891	ug/l	98
89) n-Butylbenzene	12.84	91	591985	51.458	ug/l	98
90) Hexachloroethane	12.92	117	140686	53.503	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	237503	50.182	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	19625	51.845	ug/l	84

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011519\
Data File : VF061411.D
Acq On : 15 Jan 2019 17:50
Operator : VA/AP
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM

Quant Time: Jan 16 05:52:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	169622	51.161	ug/l	95
94) Hexachlorobutadiene	14.19	225	108348	52.665	ug/l	97
95) Naphthalene	14.46	128	336495	53.420	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	165615	53.962	ug/l	99

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

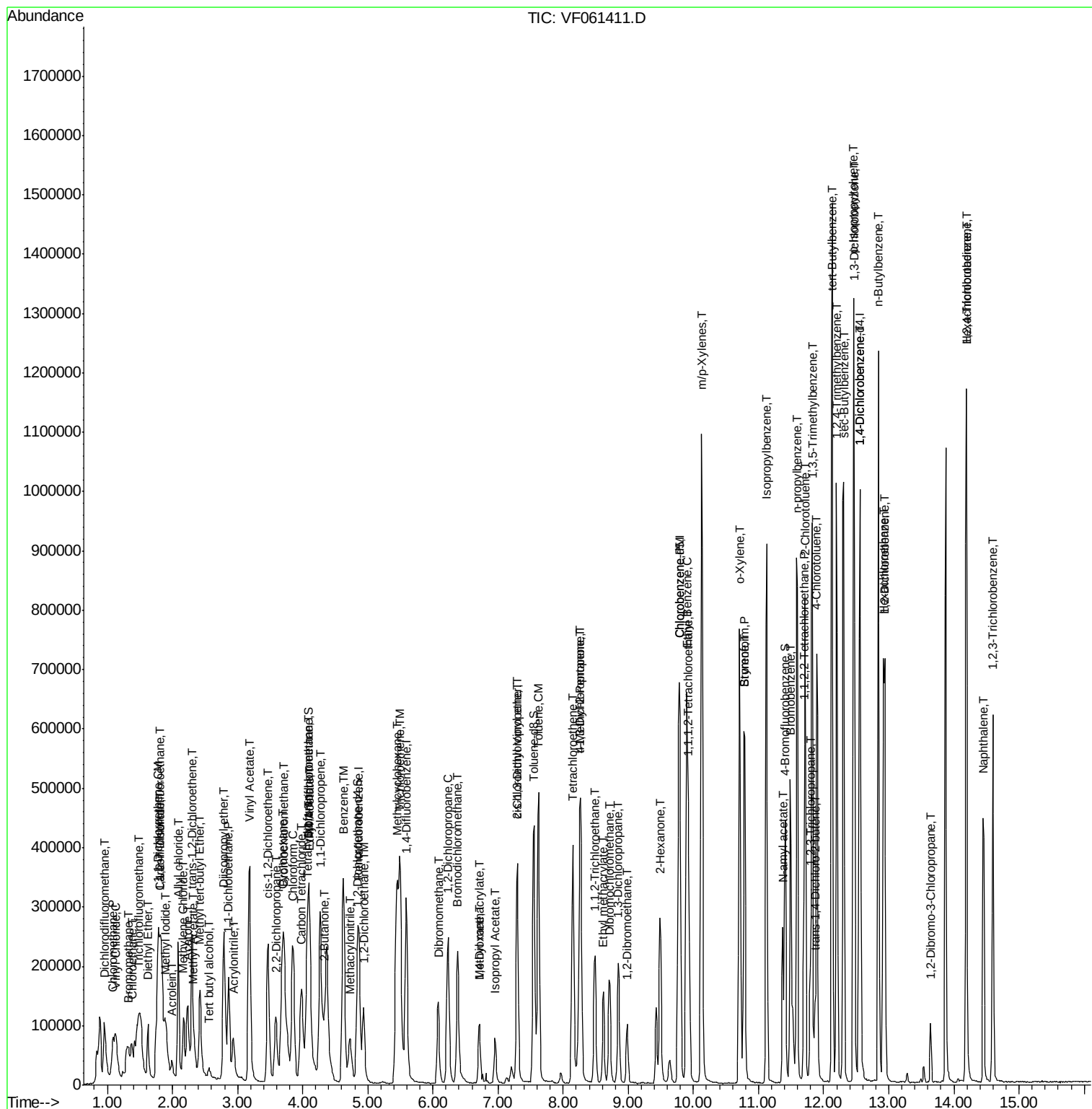
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011519\
Data File : VF061411.D
Acq On : 15 Jan 2019 17:50
Operator : VA/AP
Sample : VSTDICV050
Misc : 5.00µ/5mL/MSVOA-F/SOIL
ALS Vial : 32 Sample Multiplier: 1

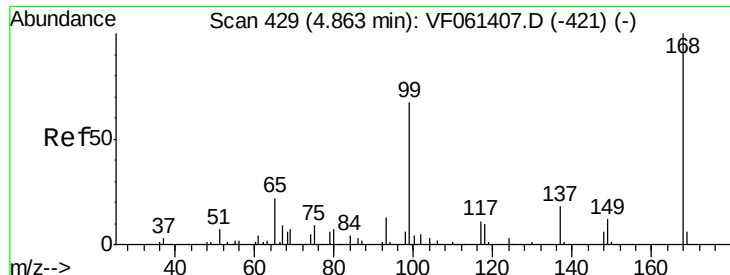
Instrument :
MSVOA_F
ClientSampleId :
ICVV011519

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM

Quant Time: Jan 16 05:52:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion:168 Resp: 191813

Ion Ratio Lower Upper

168 100

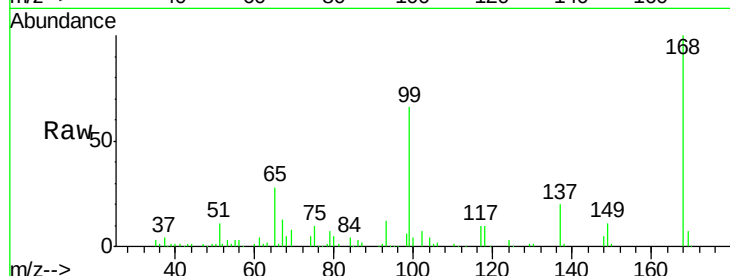
99 66.3 53.5 80.3

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

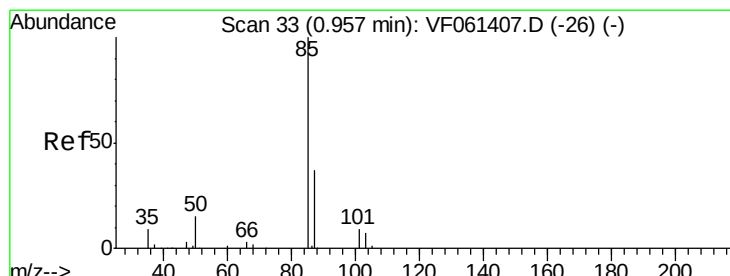
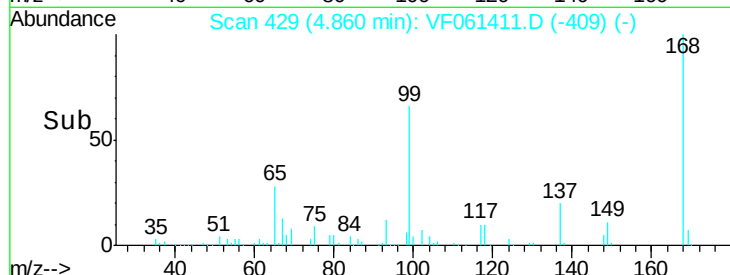
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 47.688 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061411.D

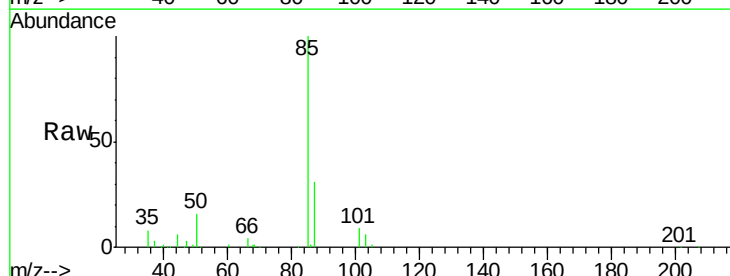
Acq: 15 Jan 2019 17:50

Tgt Ion: 85 Resp: 179728

Ion Ratio Lower Upper

85 100

87 30.7 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

60000

50000

40000

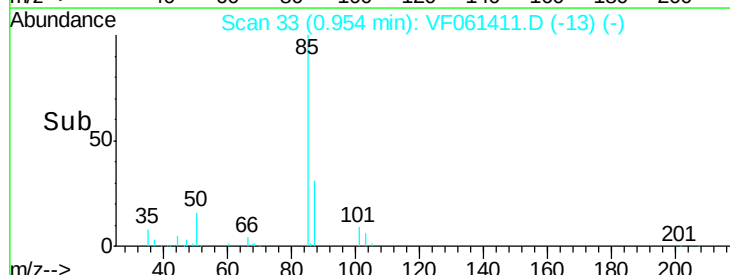
30000

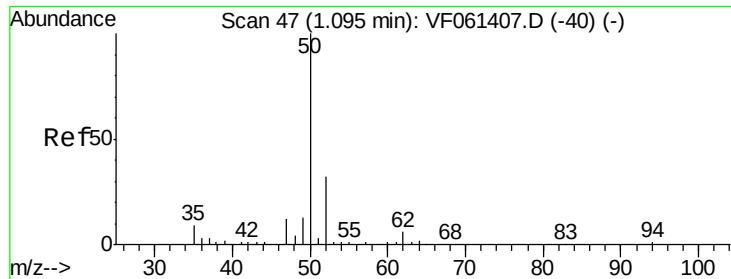
20000

10000

0

Time-->





#3

Chloromethane

Concen: 47.958 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion: 50 Resp: 132531

Ion Ratio Lower Upper

50 100

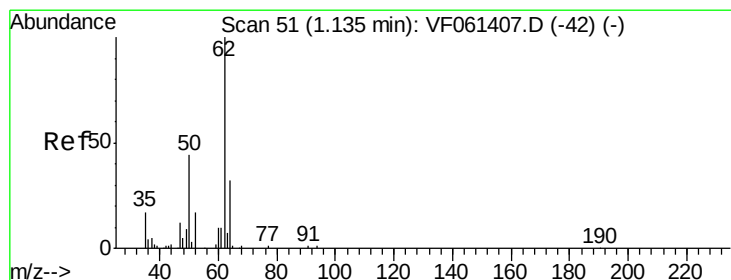
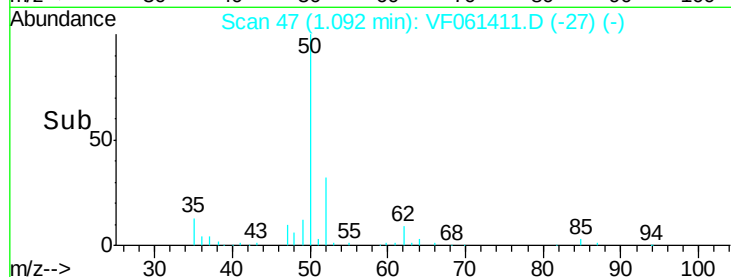
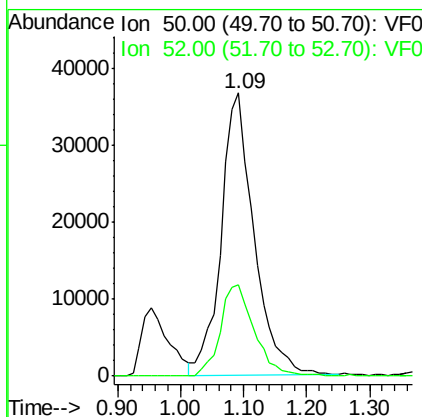
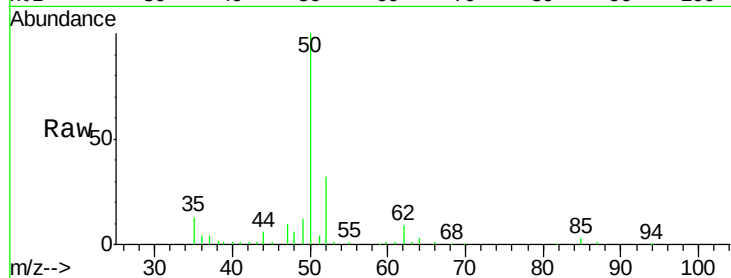
52 32.1 24.6 36.8

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



#4

Vinyl Chloride

Concen: 47.266 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061411.D

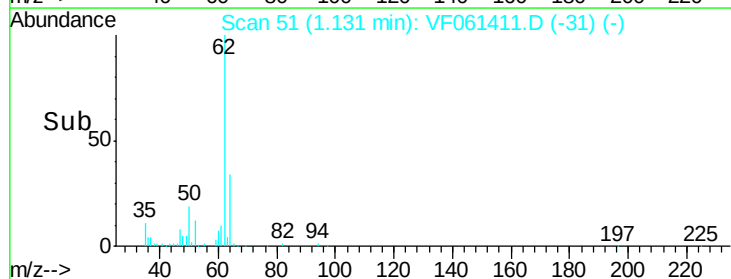
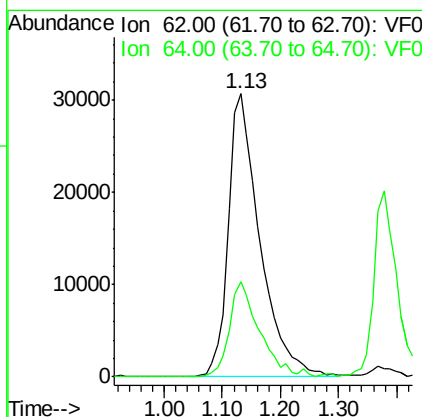
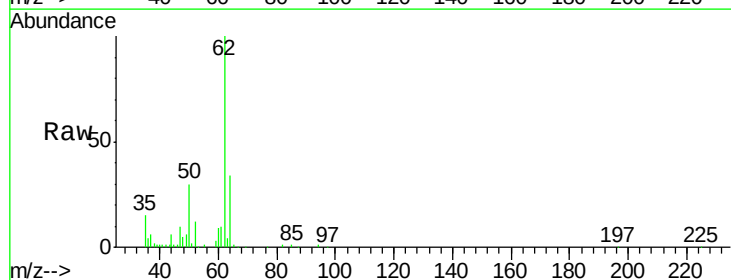
Acq: 15 Jan 2019 17:50

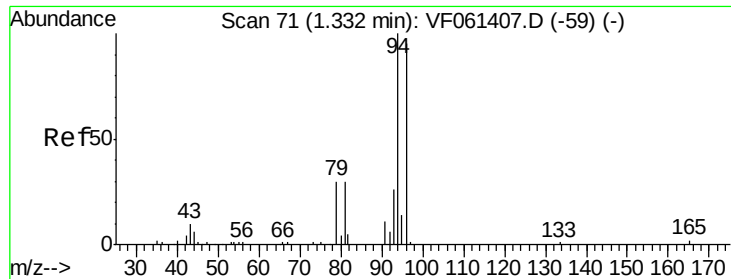
Tgt Ion: 62 Resp: 116191

Ion Ratio Lower Upper

62 100

64 33.8 25.6 38.4





#5

Bromomethane

Concen: 50.495 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion: 94 Resp: 80943

Ion Ratio Lower Upper

94 100

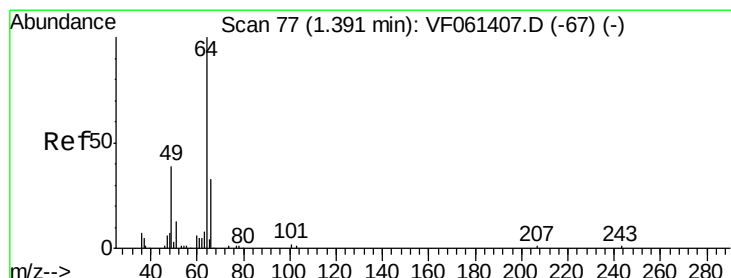
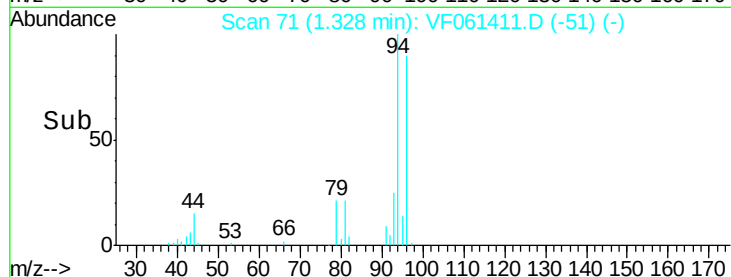
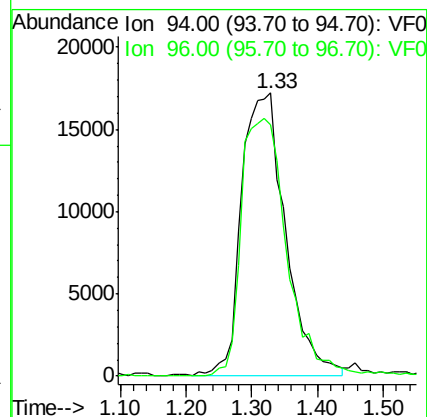
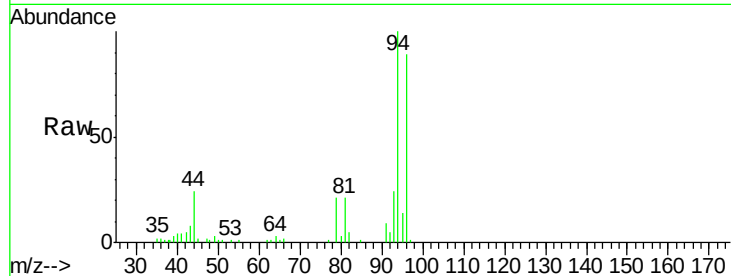
96 88.7 76.0 114.0

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



#6

Chloroethane

Concen: 52.044 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061411.D

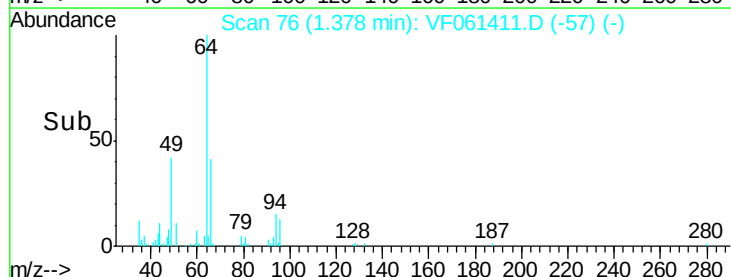
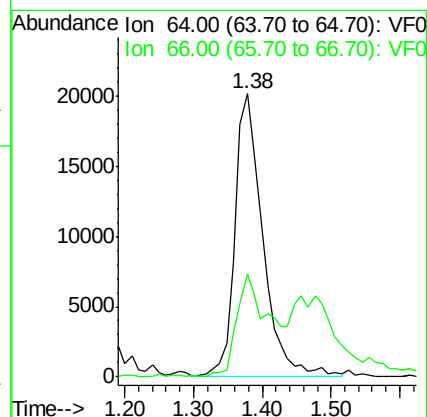
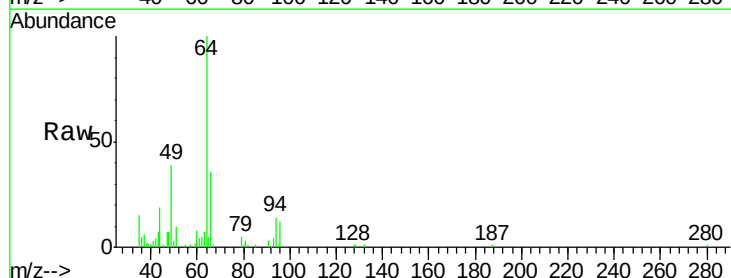
Acq: 15 Jan 2019 17:50

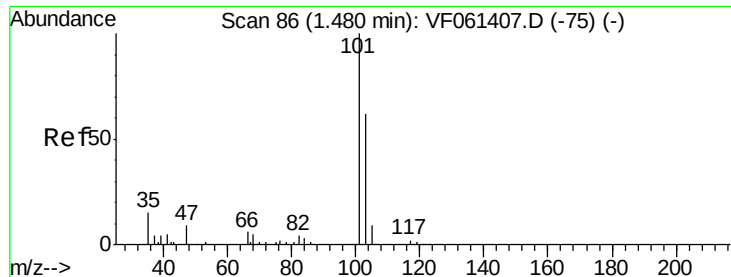
Tgt Ion: 64 Resp: 56689

Ion Ratio Lower Upper

64 100

66 36.5 26.6 40.0





#7

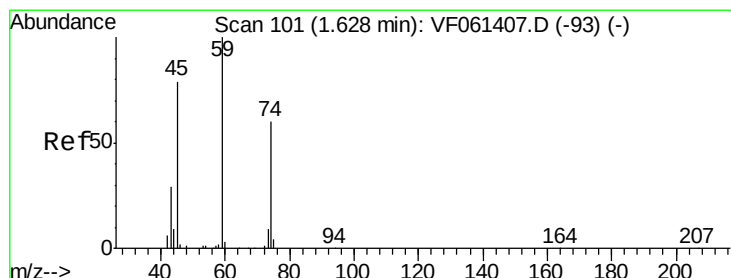
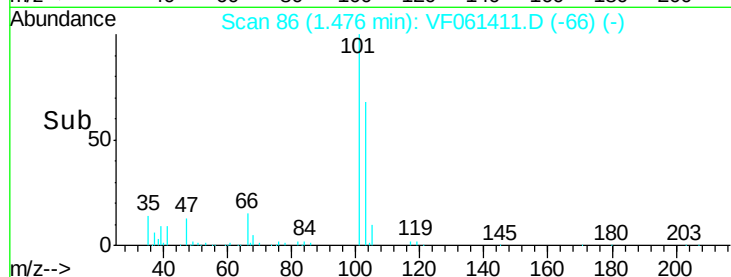
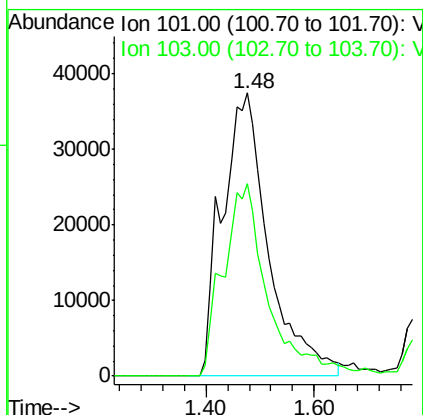
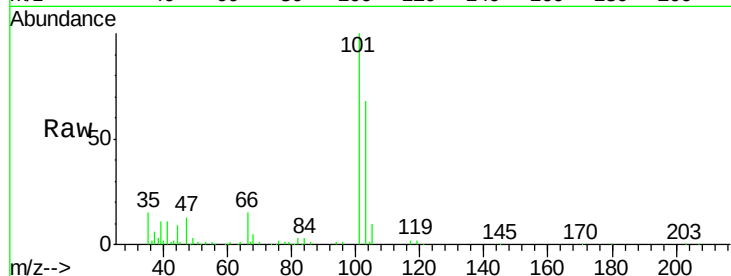
Trichlorofluoromethane
Concen: 46.860 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		223940		
103	67.8	49.7	74.5		

Manual Integrations
APPROVED

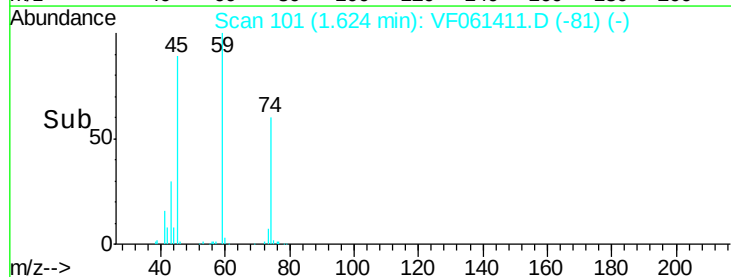
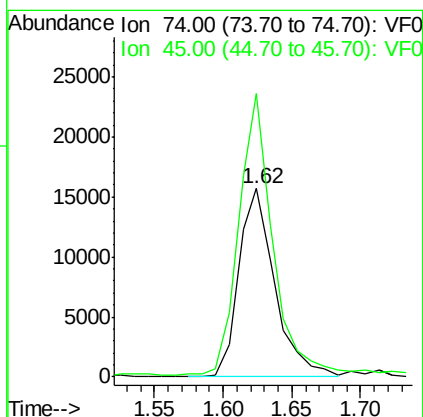
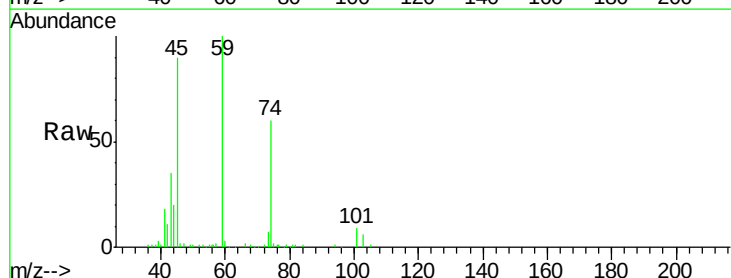
apatel
1/16/2019 4:06:13 PM

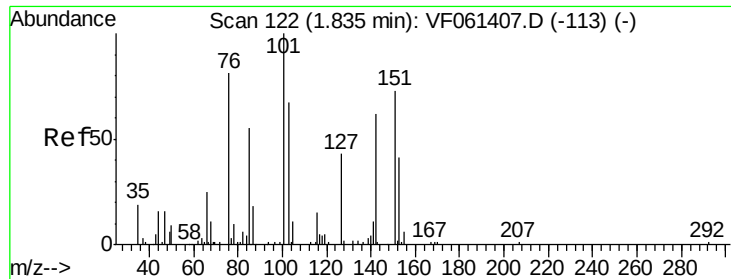


#8

Diethyl Ether
Concen: 46.673 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		28580		
45	150.4	65.8	197.5		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.758 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

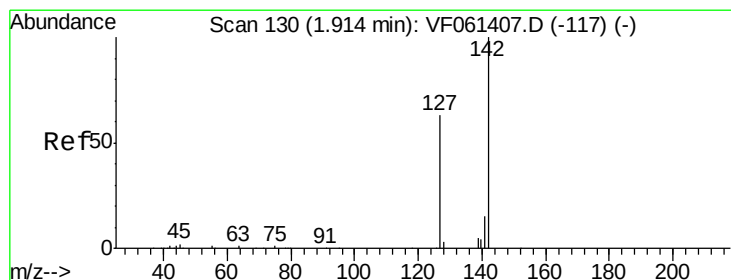
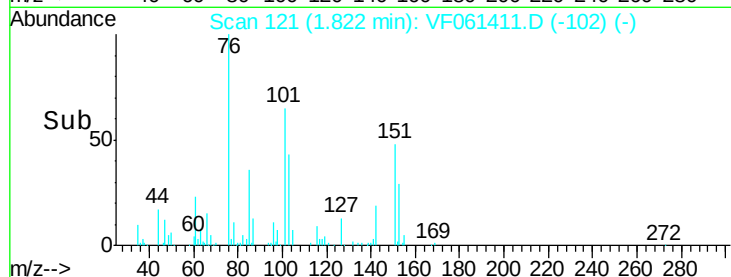
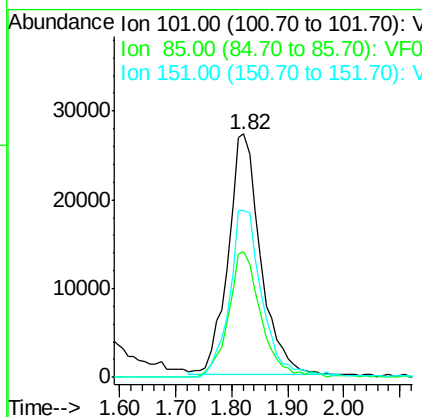
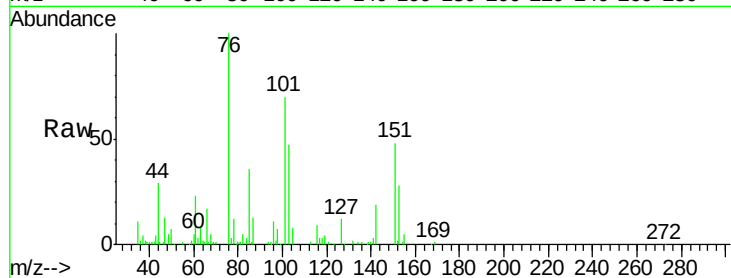
ClientSampleId :

ICVVF011519

Tot Ion:	101	Resp:	109664
Ion Ratio	Lower	Upper	
101	100		
85	51.8	41.9	62.9
151	68.5	55.1	82.7

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#10

Methyl Iodide

Concen: 50.980 ug/l m

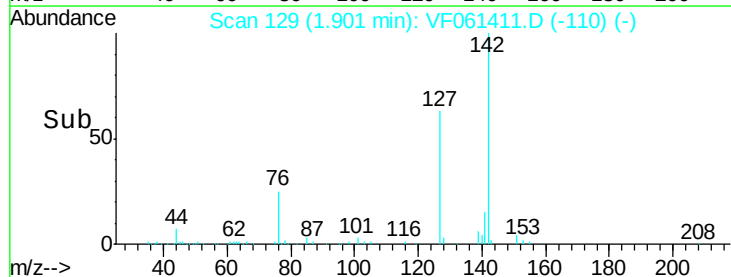
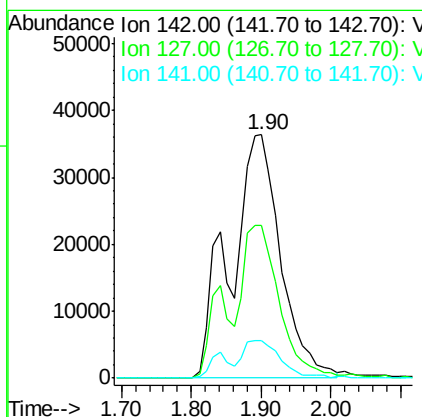
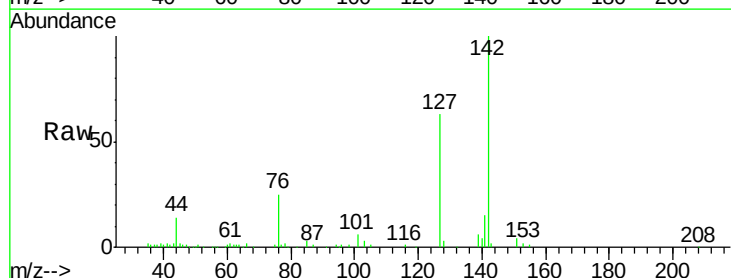
RT: 1.90 min Scan# 129

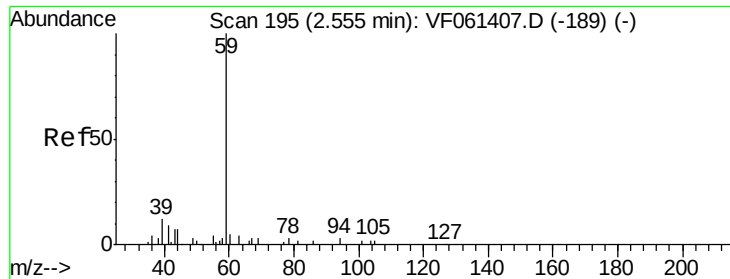
Delta R.T. -0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion:	142	Resp:	181480
Ion Ratio	Lower	Upper	
142	100		
127	62.8	50.7	76.1
141	15.3	11.8	17.6





#11

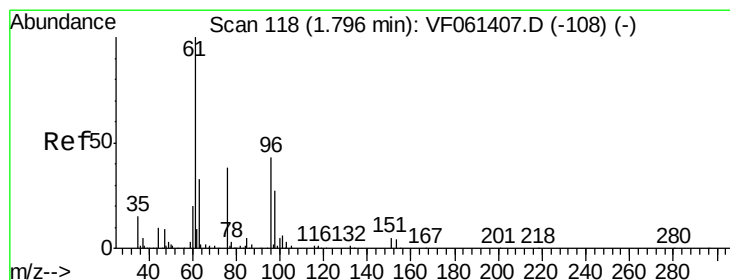
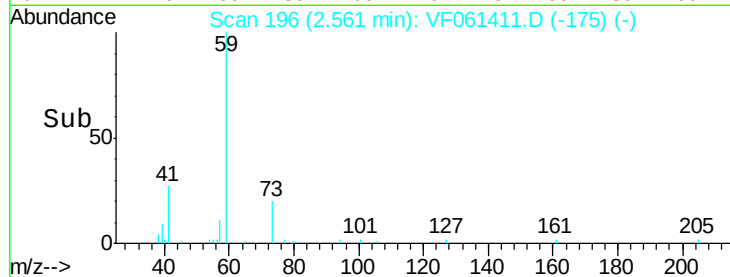
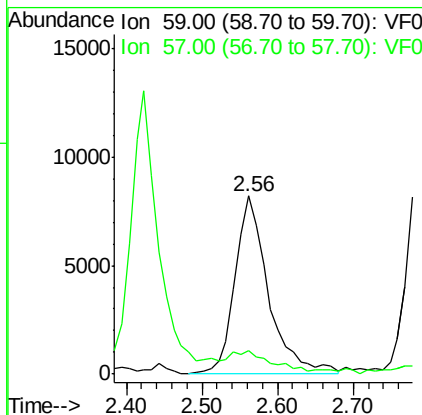
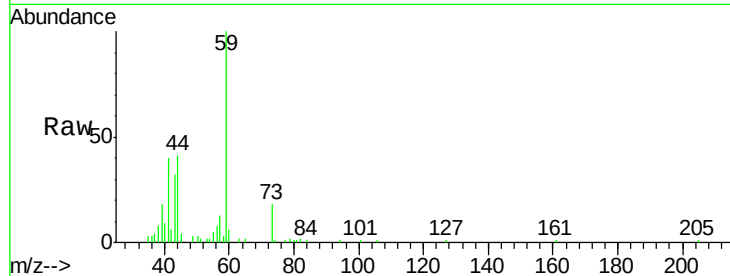
Tert butyl alcohol
Concen: 252.064 ug/l
RT: 2.56 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	59.00 (58.70 to 59.70): VF0	Resp	25267
Ion	Ratio	Lower	Upper
59	100		
57	13.5	11.9	17.9

Manual Integrations
APPROVED

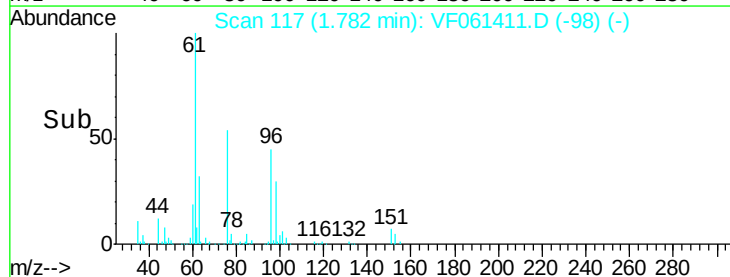
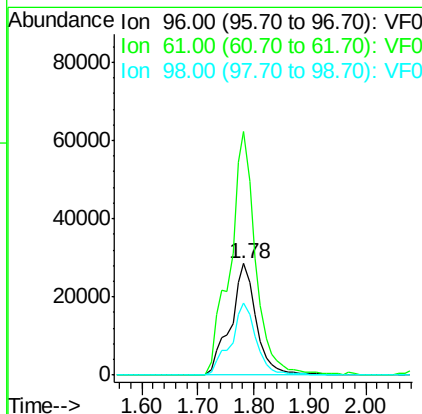
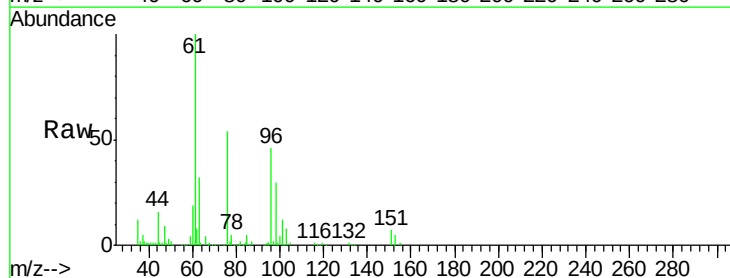
apatel
1/16/2019 4:06:13 PM

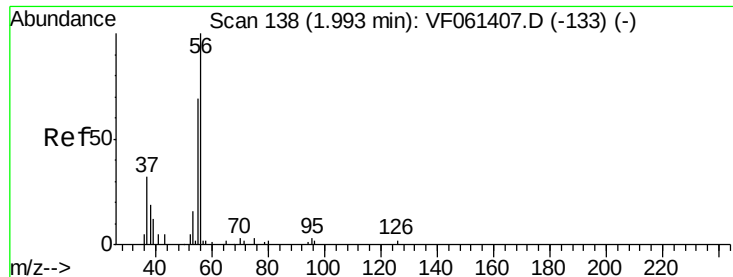


#12

1,1-Dichloroethene
Concen: 53.719 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	96.00 (95.70 to 96.70): VF0	Resp	91643
Ion	Ratio	Lower	Upper
96	100		
61	218.8	186.9	280.3
98	64.9	53.0	79.4





#13

Acrolein

Concen: 271.236 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion: 56 Resp: 23498

Ion Ratio Lower Upper

56 100

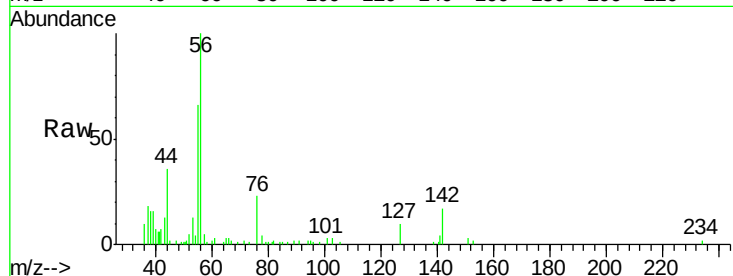
55 66.5 57.5 86.3

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

10000

8000

6000

4000

2000

0

1.99

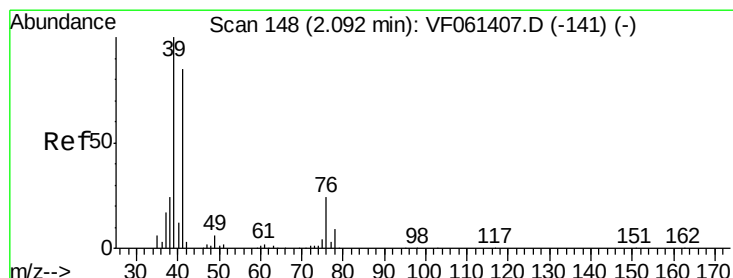
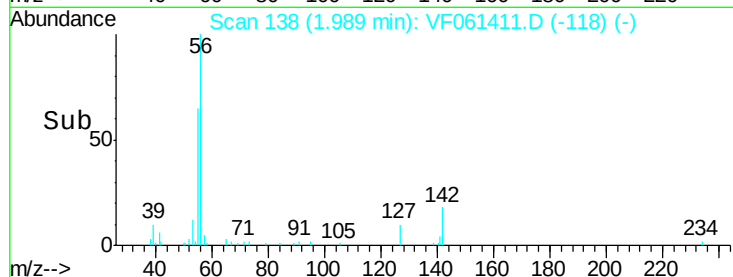
1.90

2.00

2.10

2.20

Time-->



#14

Allyl chloride

Concen: 75.989 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

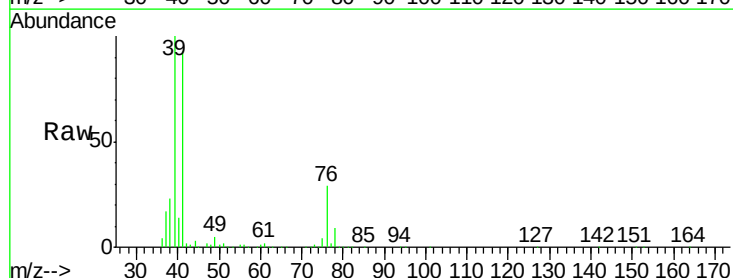
Tgt Ion: 41 Resp: 150057

Ion Ratio Lower Upper

41 100

39 108.1 94.6 141.8

76 31.0 25.9 38.9



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

100000

80000

60000

40000

20000

0

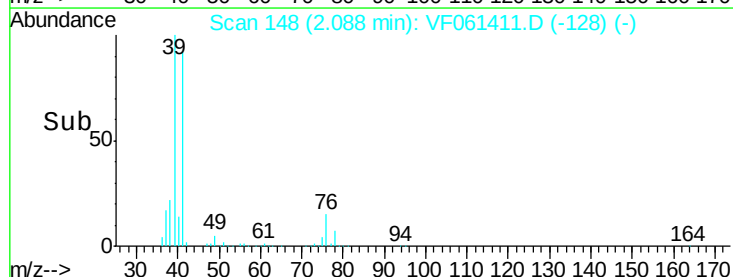
2.09

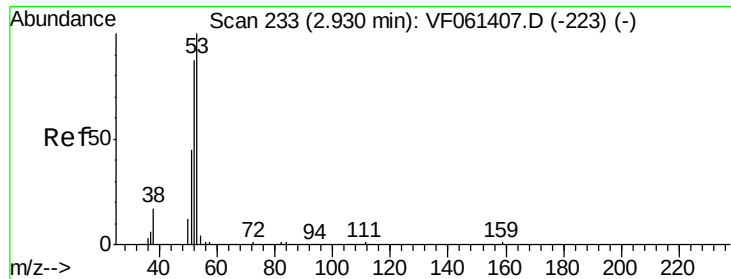
2.00

2.10

2.20

Time-->





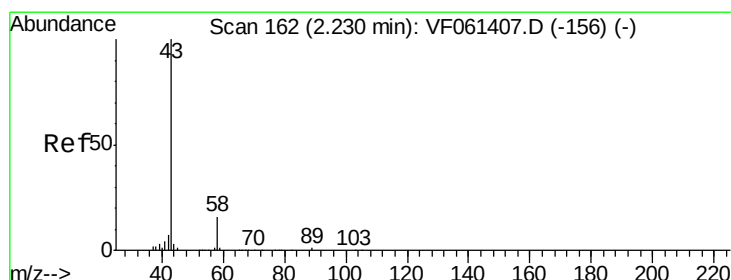
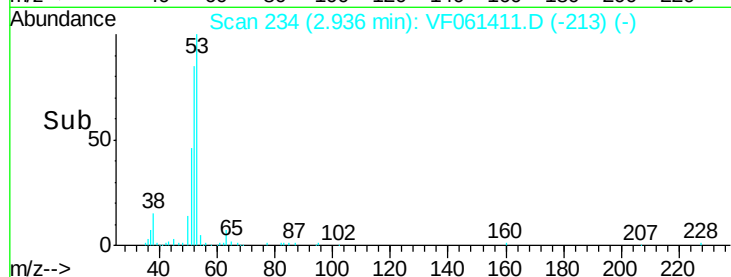
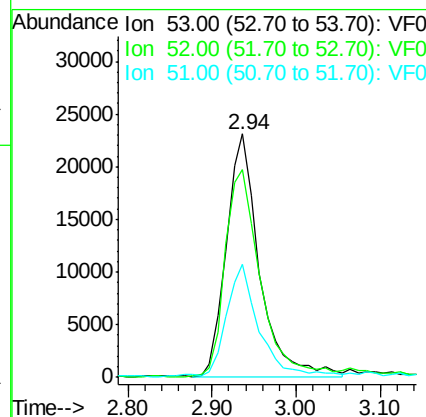
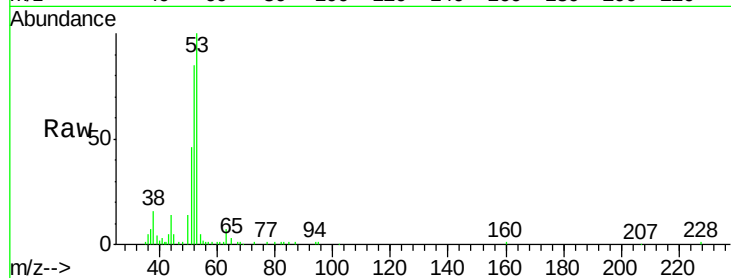
#15
 Acrylonitrile
 Concen: 247.548 ug/l
 RT: 2.94 min Scan# 234
 Delta R.T. 0.01 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVV011519

Tot Ion	Ratio	Lower	Upper
53	100		
52	85.1	69.6	104.4
51	46.2	36.8	55.2

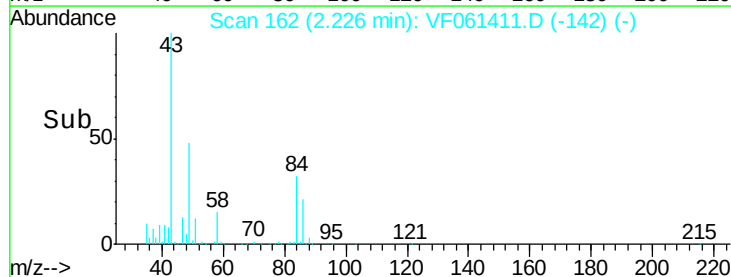
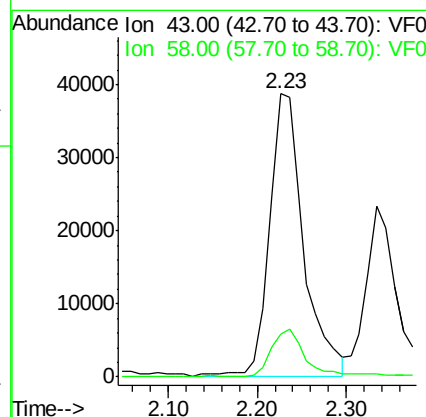
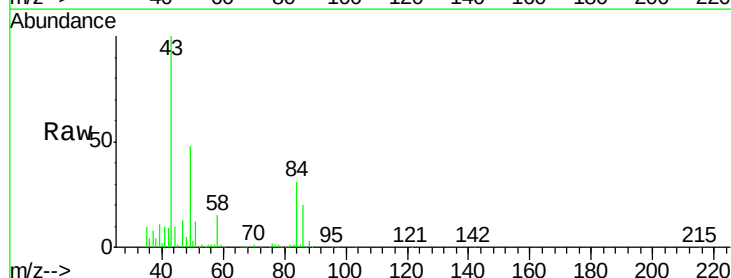
Manual Integrations
 APPROVED

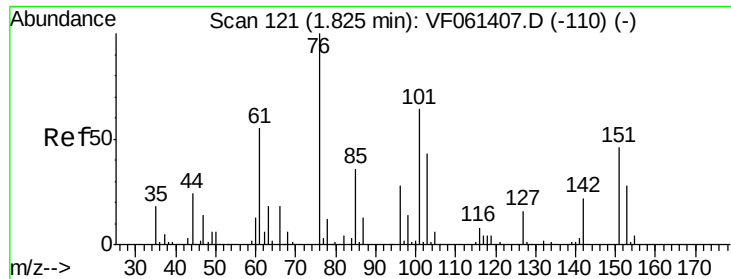
apatel
 1/16/2019 4:06:13 PM



#16
 Acetone
 Concen: 217.166 ug/l
 RT: 2.23 min Scan# 162
 Delta R.T. -0.00 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Lower	Upper
43	100		
58	15.2	13.3	19.9





#17

Carbon Disulfide

Concen: 52.799 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampled :

ICVVF011519

Tot Ion: 76 Resp: 280856

Ion Ratio Lower Upper

76 100

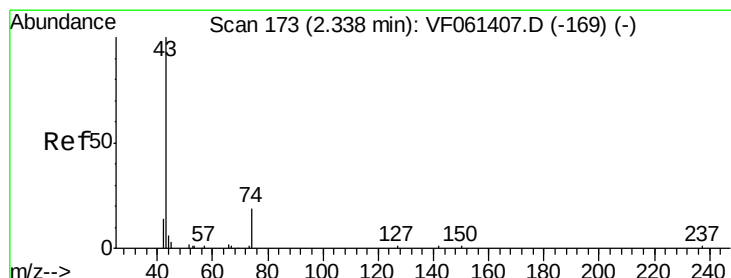
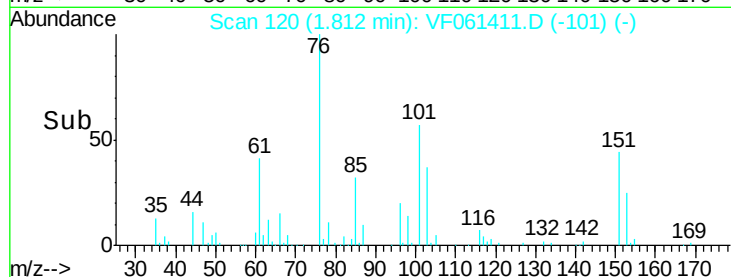
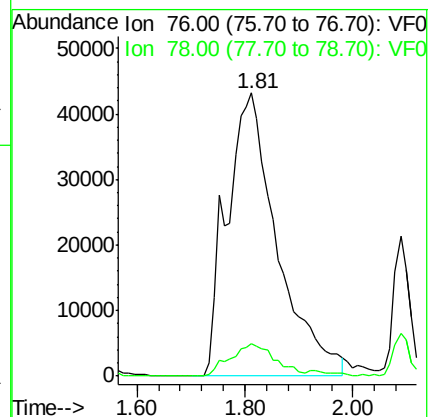
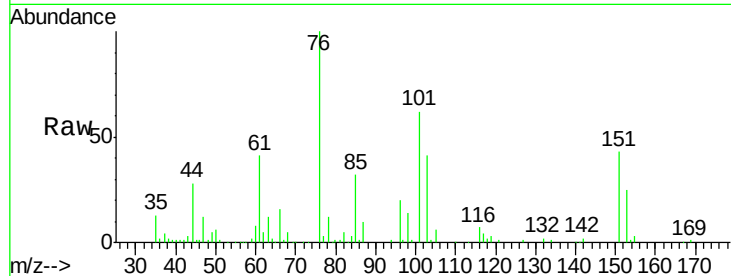
78 11.7 9.6 14.4

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



#18

Methyl Acetate

Concen: 49.325 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF061411.D

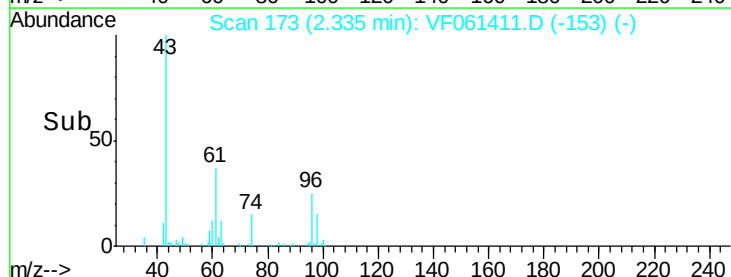
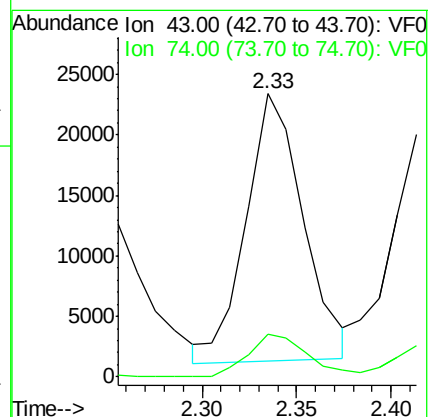
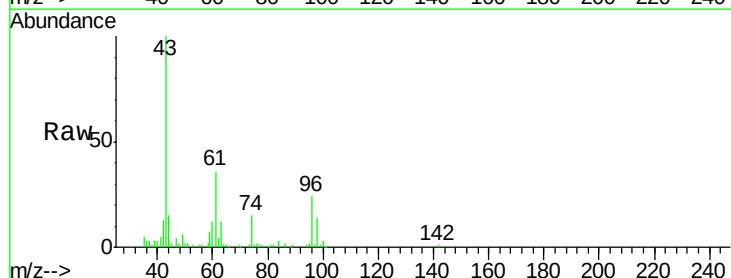
Acq: 15 Jan 2019 17:50

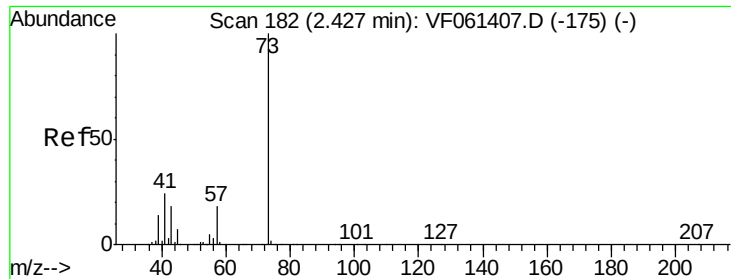
Tgt Ion: 43 Resp: 46472

Ion Ratio Lower Upper

43 100

74 15.2 13.4 20.0





#19

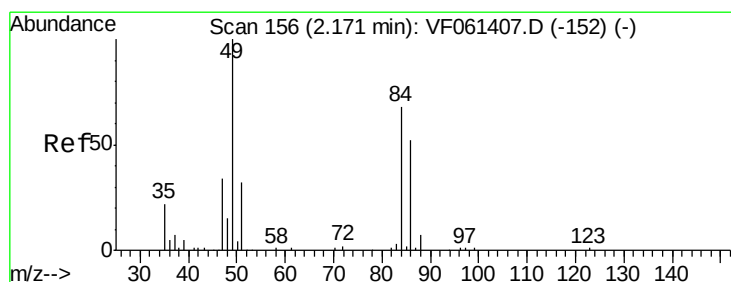
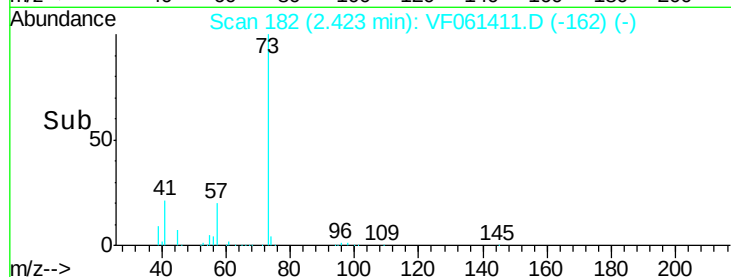
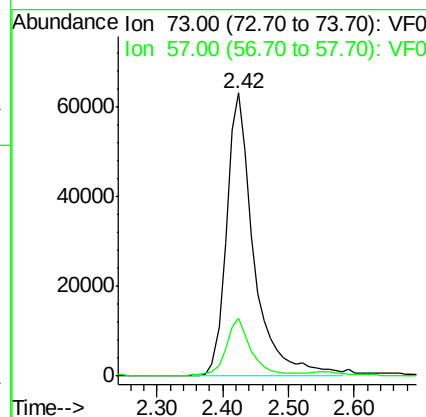
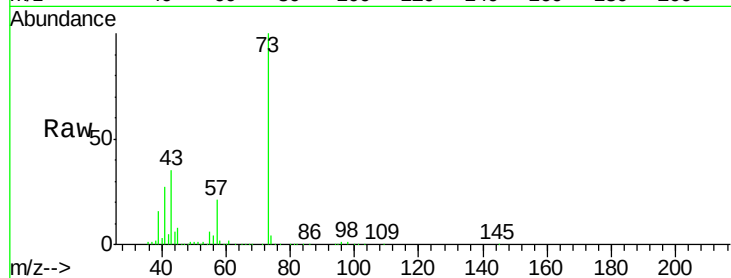
Methyl tert-butyl Ether
 Concen: 48.007 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.00 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF011519

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.7	14.8	22.2

Manual Integrations
 APPROVED

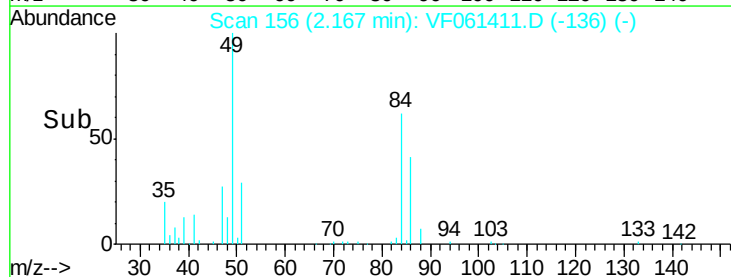
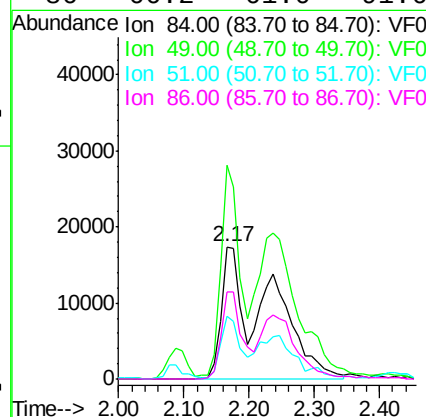
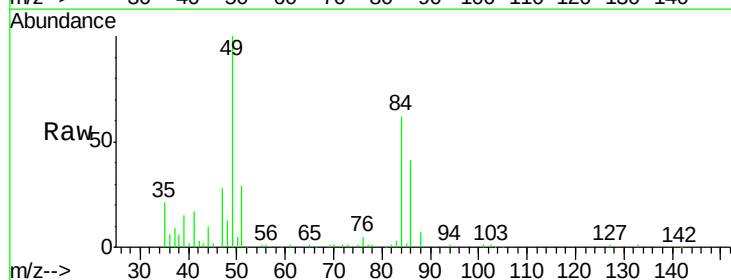
apatel
 1/16/2019 4:06:13 PM

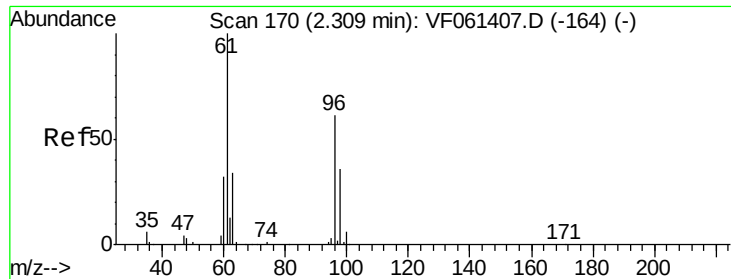


#20

Methylene Chloride
 Concen: 53.847 ug/l m
 RT: 2.17 min Scan# 156
 Delta R.T. -0.00 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Lower	Upper
84	100		
49	161.9	120.0	180.0
51	47.6	38.6	58.0
86	66.2	61.0	91.6





#21

trans-1,2-Dichloroethene

Concen: 50.260 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

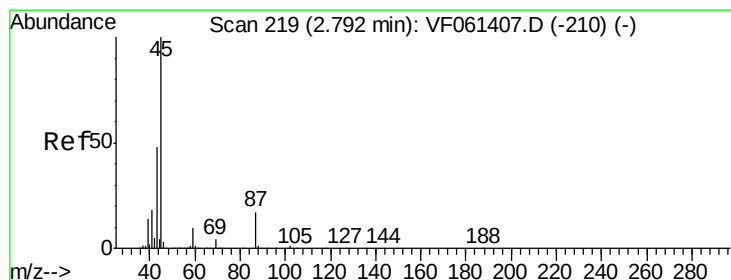
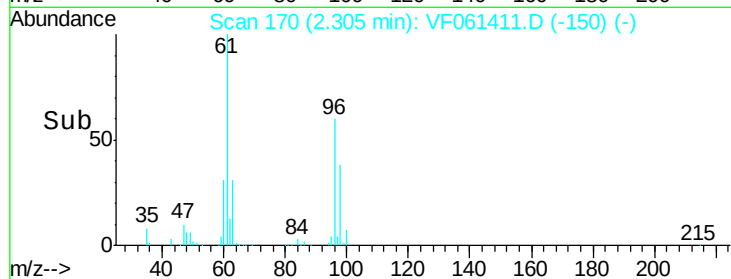
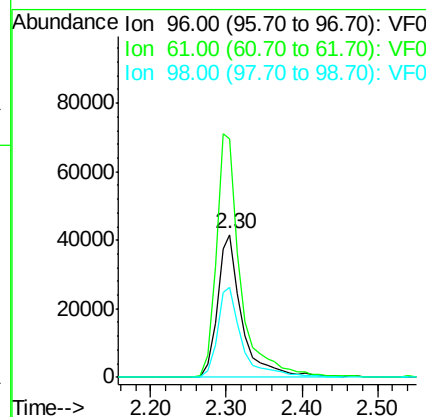
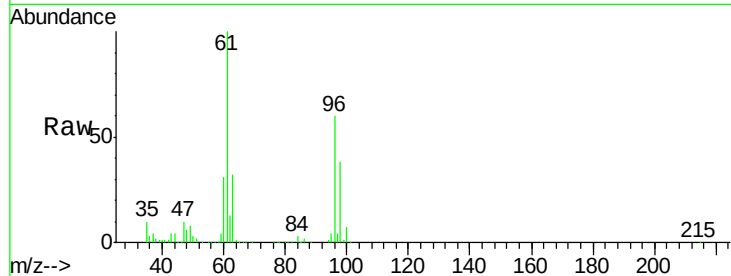
ClientSampleId :

ICVVF011519

Tot Ion:	96	Resp:	94337
Ion	Ratio	Lower	Upper
96	100		
61	167.4	131.8	197.8
98	63.5	47.4	71.0

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#22

Diisopropyl ether

Concen: 51.385 ug/l

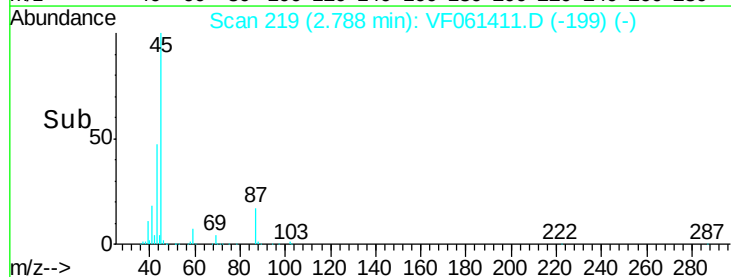
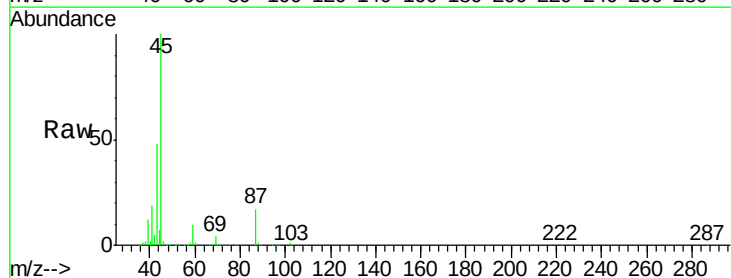
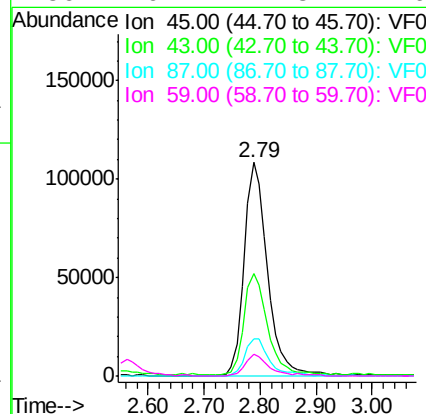
RT: 2.79 min Scan# 219

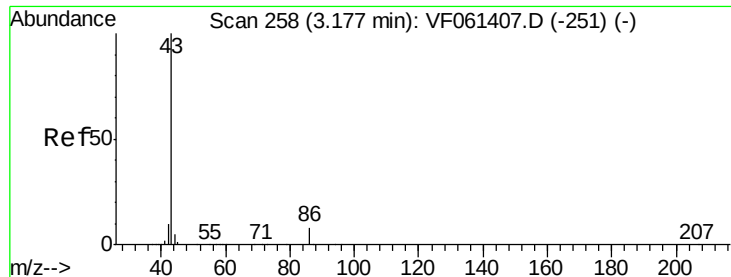
Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion:	45	Resp:	311956
Ion	Ratio	Lower	Upper
45	100		
43	48.1	39.0	58.6
87	17.1	13.9	20.9
59	10.2	7.8	11.6





#23

Vinyl Acetate

Concen: 286.482 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion: 43 Resp: 766261

Ion Ratio Lower Upper

43 100

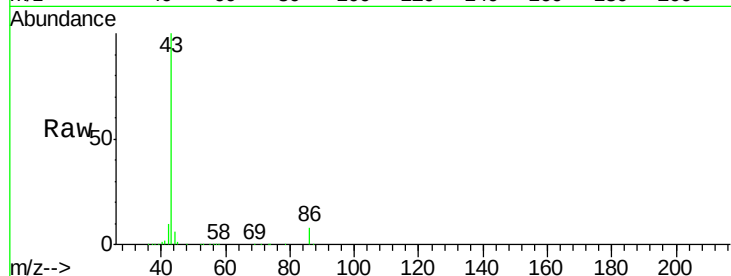
86 7.9 6.2 9.4

Manual Integrations

APPROVED

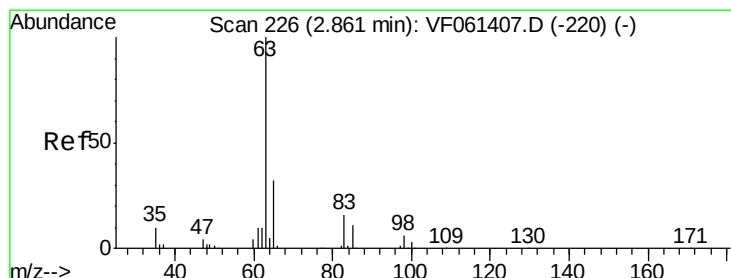
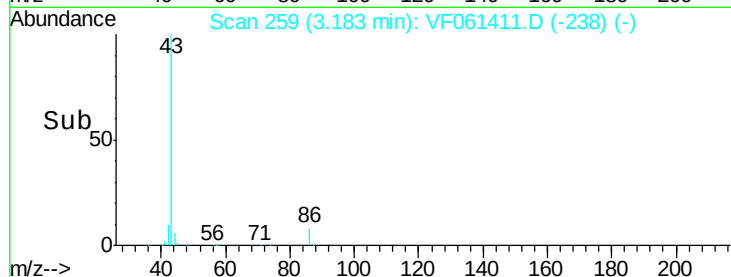
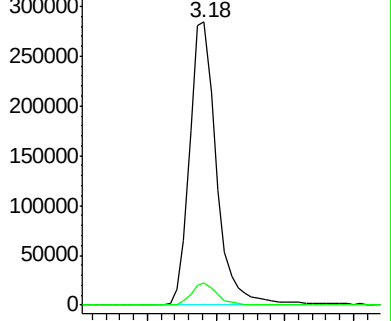
apatel

1/16/2019 4:06:13 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 50.096 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

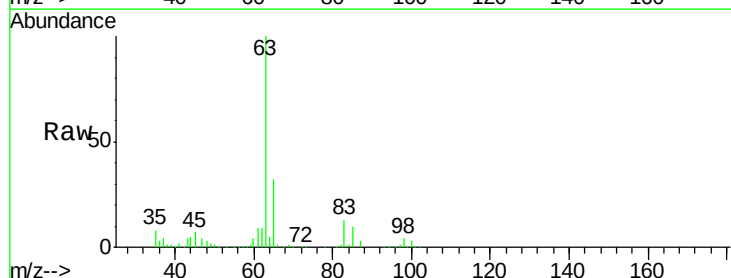
Tgt Ion: 63 Resp: 190880

Ion Ratio Lower Upper

63 100

98 4.3 2.9 8.8

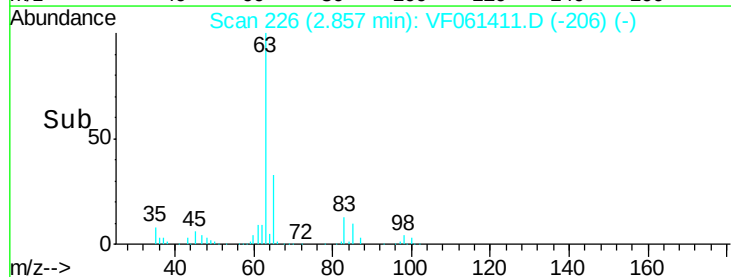
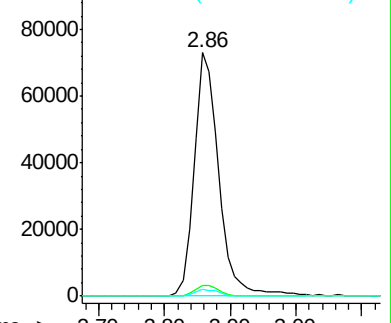
100 2.7 1.6 4.8

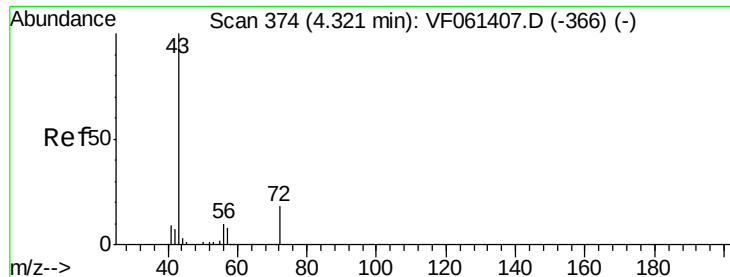


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 243.082 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tot Ion: 43 Resp: 192046

Ion Ratio Lower Upper

43 100

72 20.7 15.8 23.6

Instrument :

MSVOA_F

ClientSampleId :

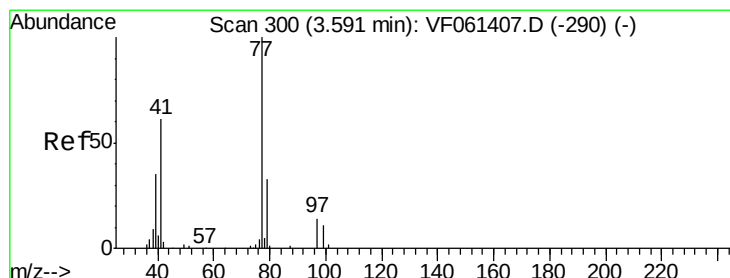
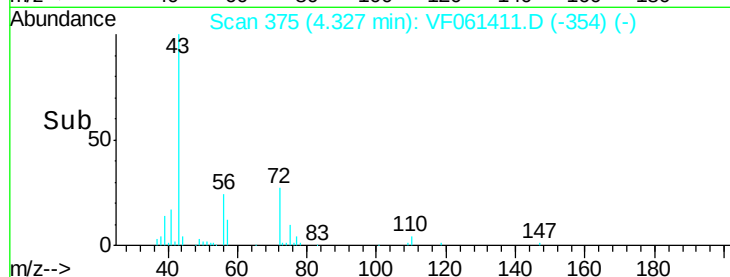
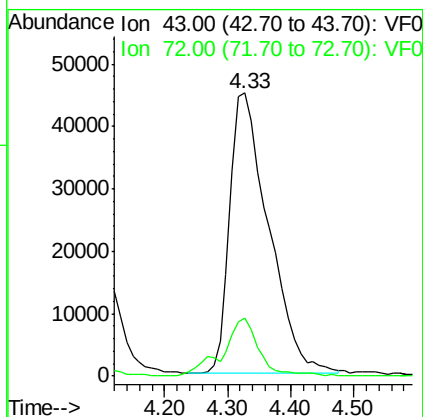
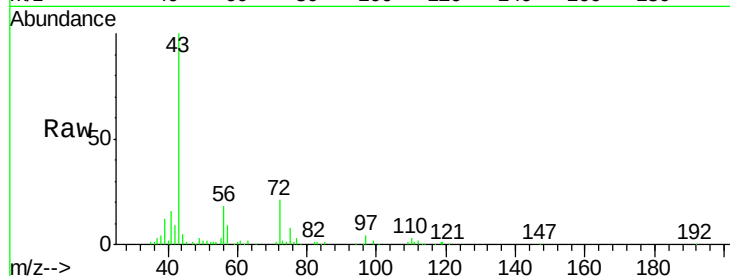
ICVVF011519

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



#26

2,2-Dichloropropane

Concen: 44.359 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.00 min

Lab File: VF061411.D

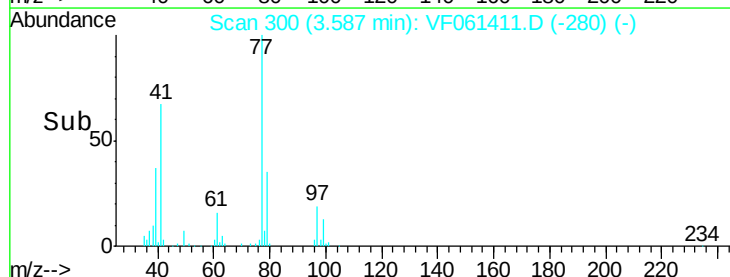
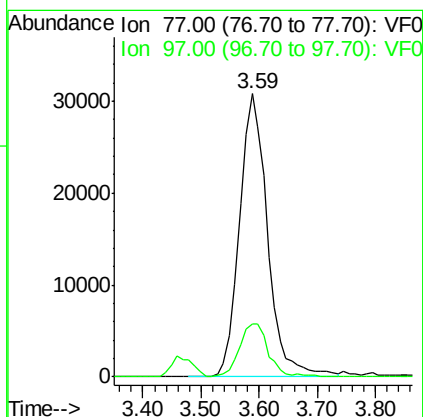
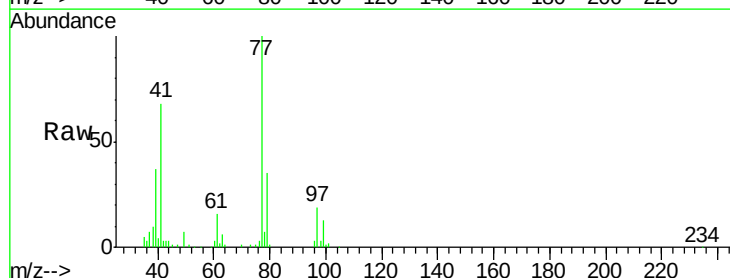
Acq: 15 Jan 2019 17:50

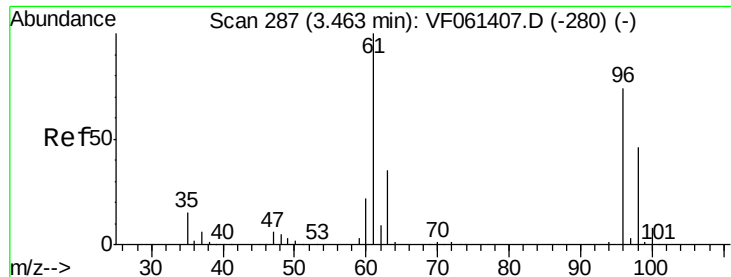
Tgt Ion: 77 Resp: 103846

Ion Ratio Lower Upper

77 100

97 18.7 8.5 25.5





#27

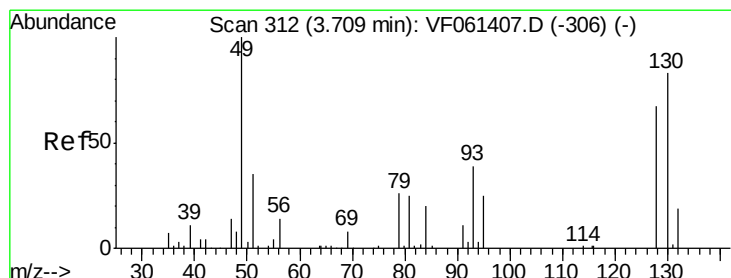
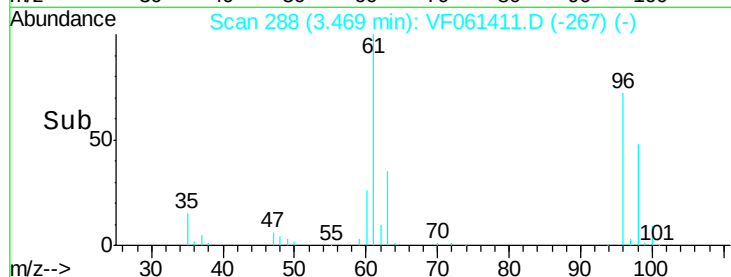
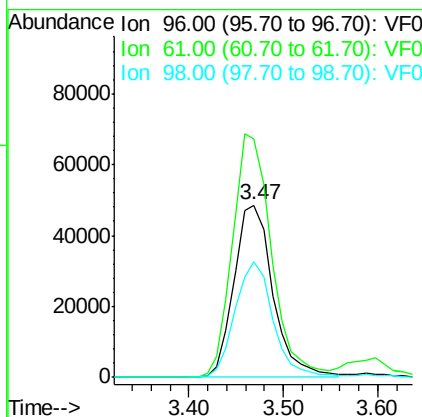
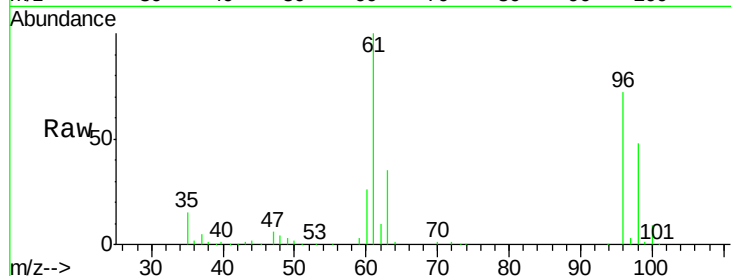
cis-1,2-Dichloroethene
Concen: 50.055 ug/l
RT: 3.47 min Scan# 288
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ratio	Resp	Lower	Upper
96	100	138689		
61	138.7	0.0	270.2	
98	66.8	0.0	124.0	

Manual Integrations
APPROVED

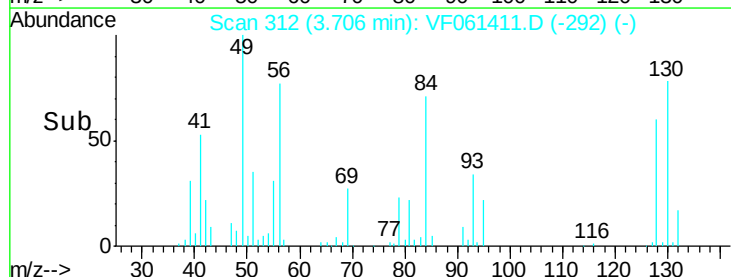
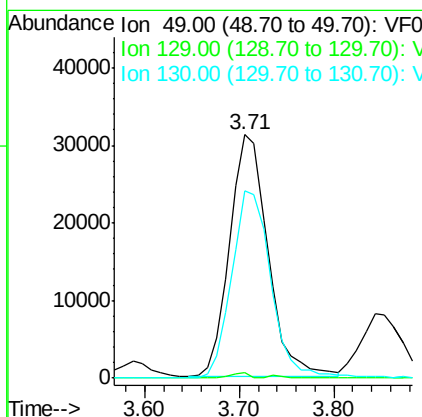
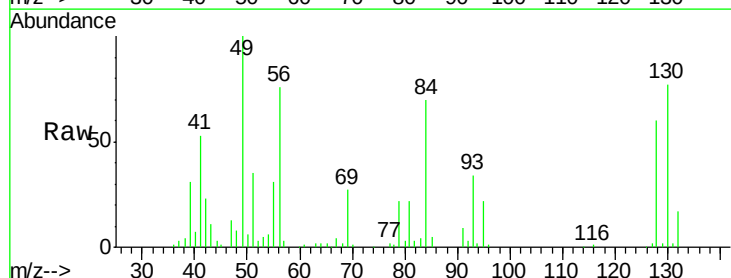
apatel
1/16/2019 4:06:13 PM

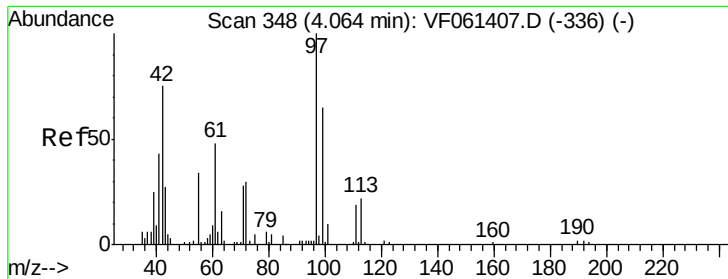


#28

Bromochloromethane
Concen: 51.401 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	88038		
129	2.3	0.0	0.0#	
130	76.8	65.4	98.2	





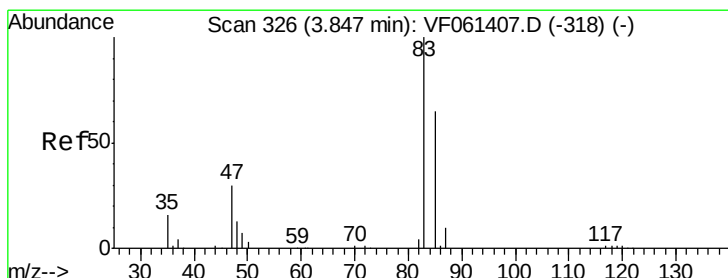
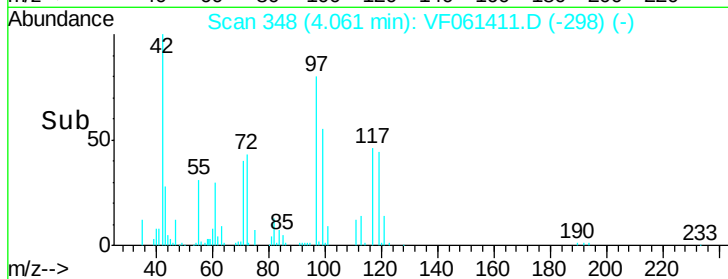
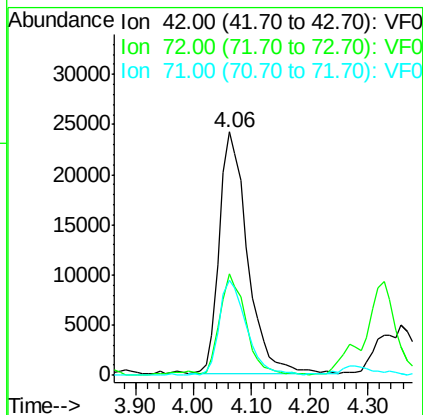
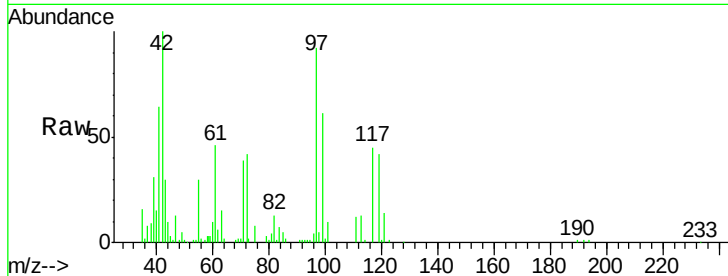
#29
Tetrahydrofuran
Concen: 237.998 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.1	28.9	43.3
71	38.2	29.6	44.4

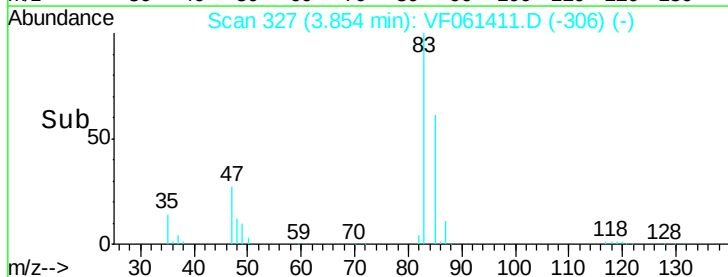
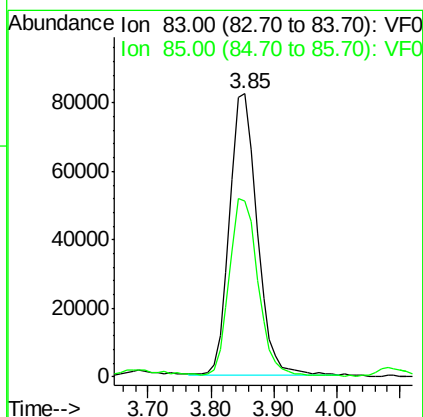
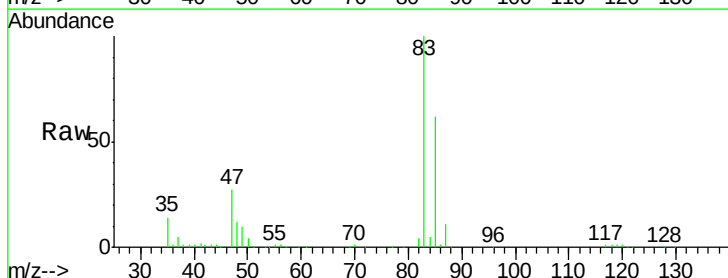
Manual Integrations
APPROVED

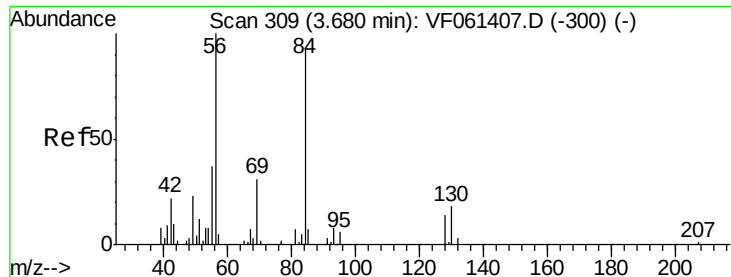
apatel
1/16/2019 4:06:13 PM



#30
Chloroform
Concen: 48.307 ug/l
RT: 3.85 min Scan# 327
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.1	52.7	79.1





#31

Cyclohexane

Concen: 53.867 ug/l

RT: 3.69 min Scan# 310

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

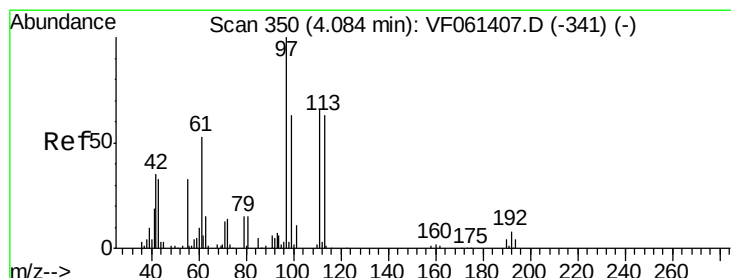
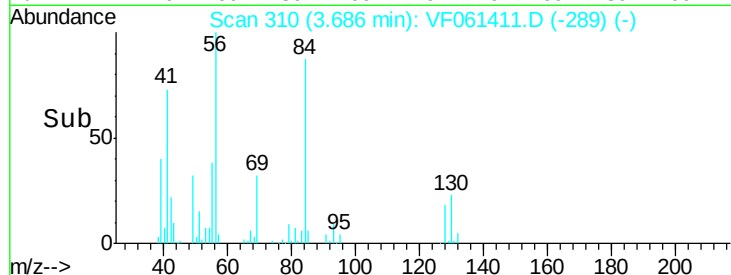
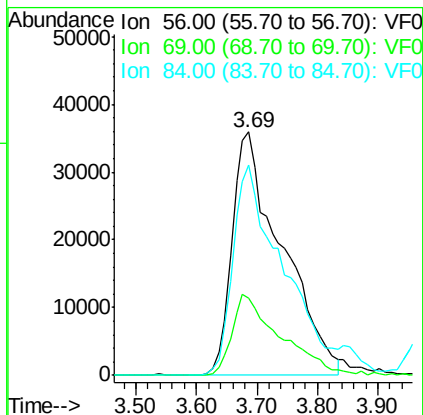
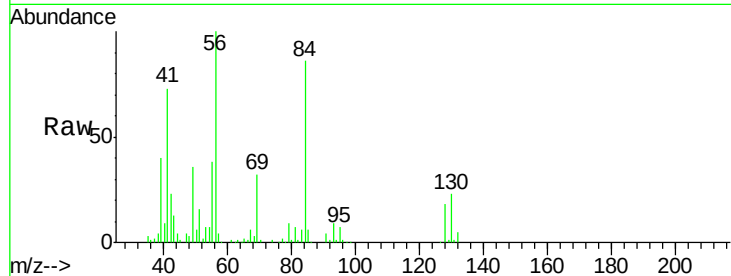
ClientSampleId :

ICVVF011519

Tot Ion:	56	Resp:	205027
Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.6	36.8
84	86.3	74.2	111.2

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#32

1,1,1-Trichloroethane

Concen: 48.892 ug/l

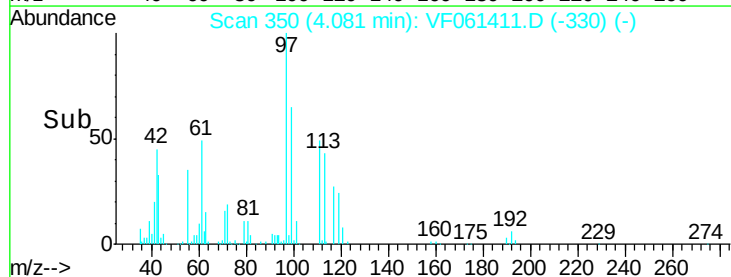
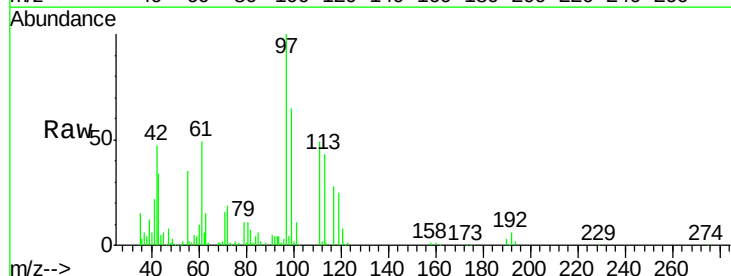
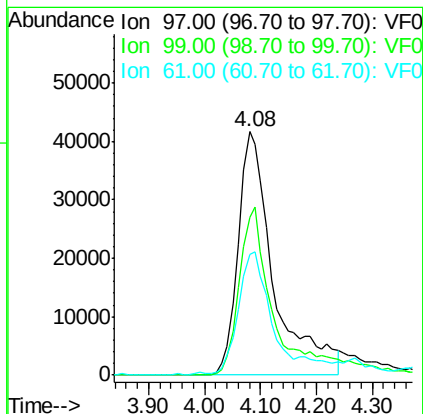
RT: 4.08 min Scan# 350

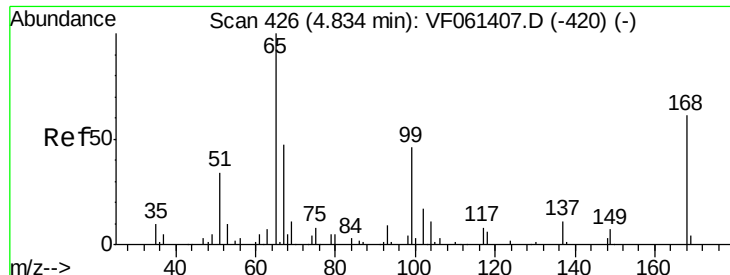
Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion:	97	Resp:	184348
Ion	Ratio	Lower	Upper
97	100		
99	64.7	50.1	75.1
61	49.5	43.1	64.7





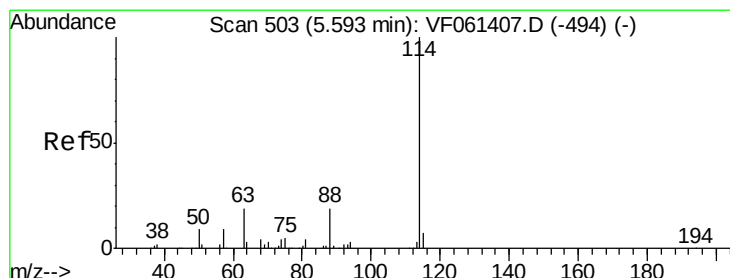
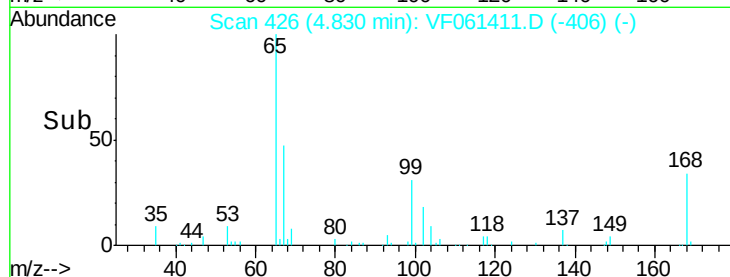
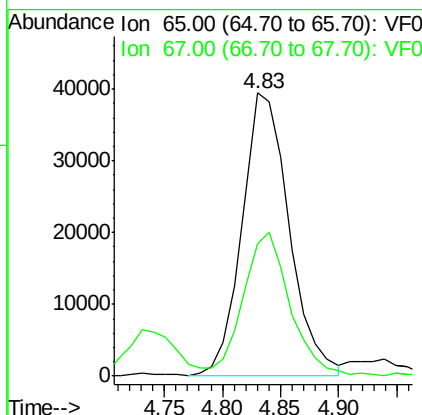
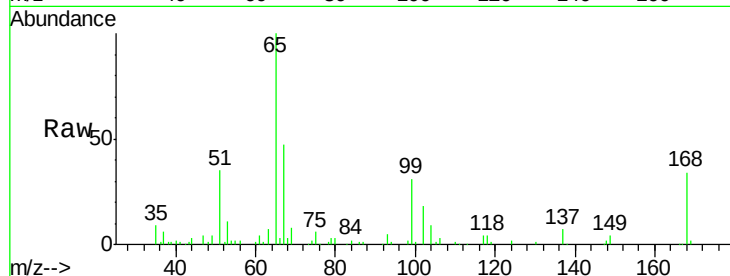
#33
 1,2-Dichloroethane-d4
 Concen: 46.925 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.00 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF011519

Tot Ion	Ratio	Resp	Lower	Upper
65	100	111127		
67	46.8	0.0	99.8	

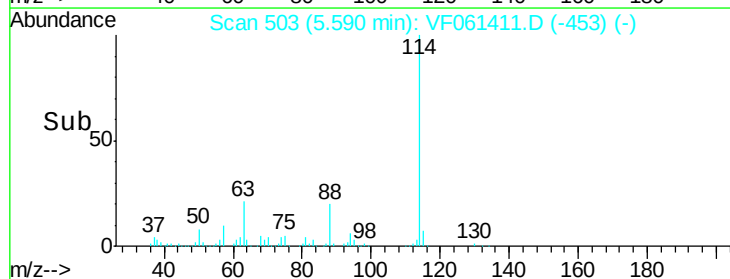
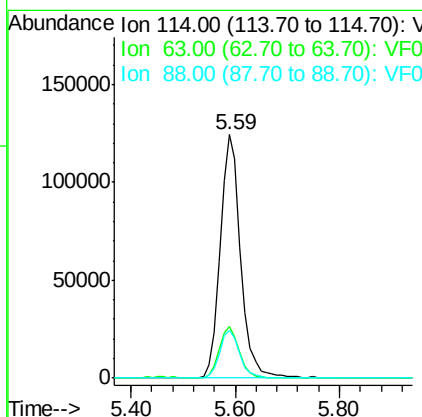
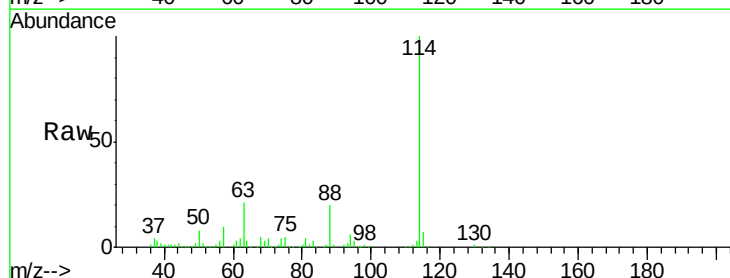
Manual Integrations
 APPROVED

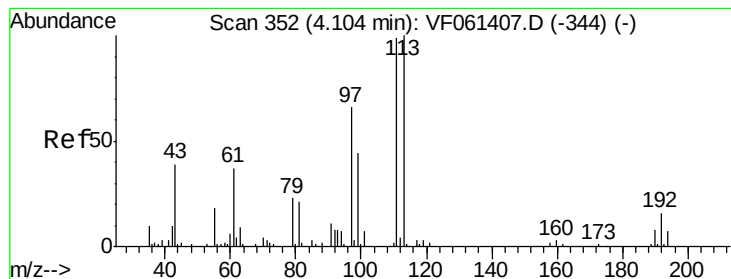
apatel
 1/16/2019 4:06:13 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	336582		
63	21.5	0.0	39.0	
88	19.9	0.0	37.4	





#35

Dibromofluoromethane

Concen: 48.088 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

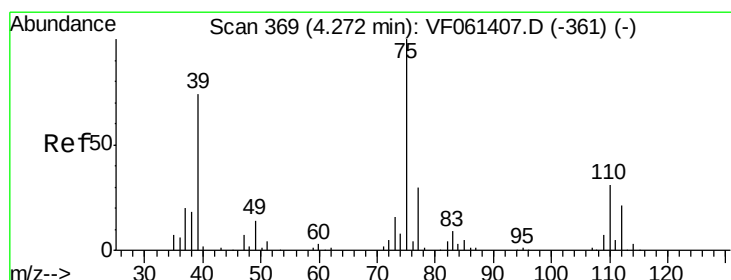
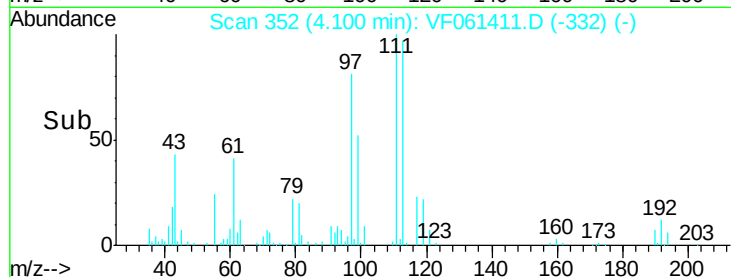
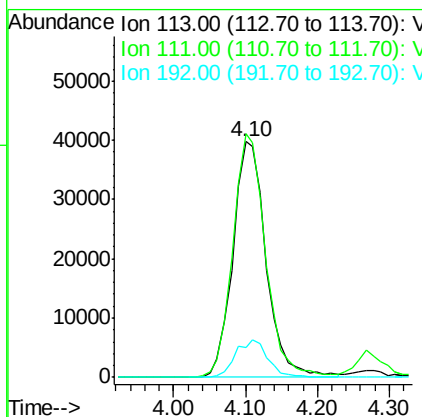
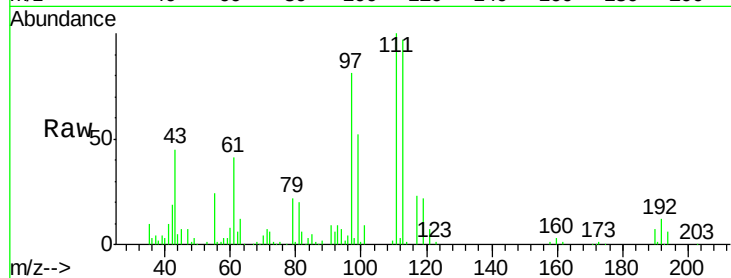
ClientSampleId :

ICVVF011519

Tot Ion:	113	Resp:	127719
Ion	Ratio	Lower	Upper
113	100		
111	103.3	79.4	119.0
192	12.5	12.4	18.6

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#36

1,1-Dichloropropene

Concen: 49.811 ug/l

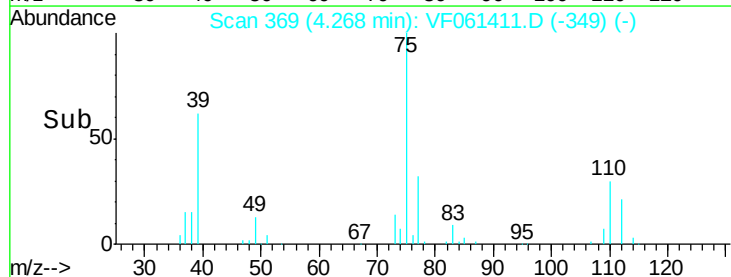
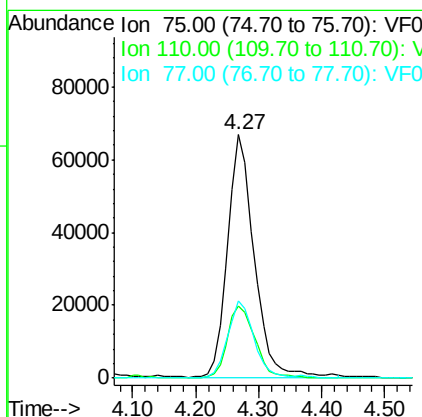
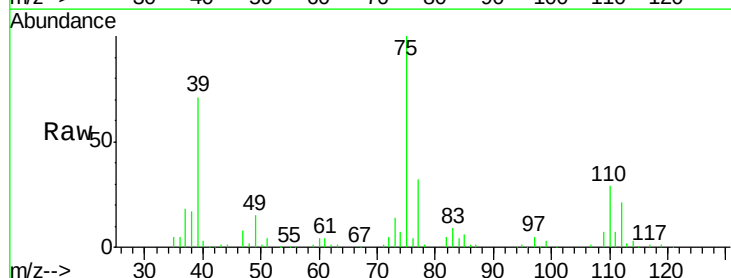
RT: 4.27 min Scan# 369

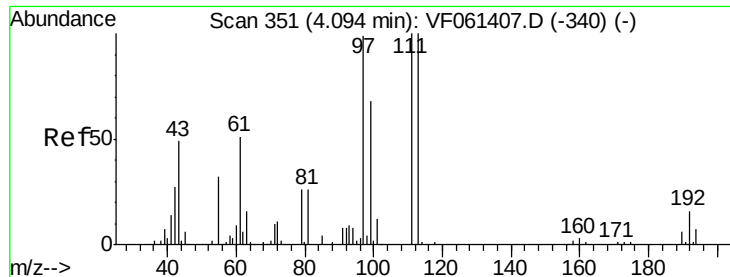
Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion:	75	Resp:	194387
Ion	Ratio	Lower	Upper
75	100		
110	29.4	15.8	47.3
77	31.7	24.0	36.0





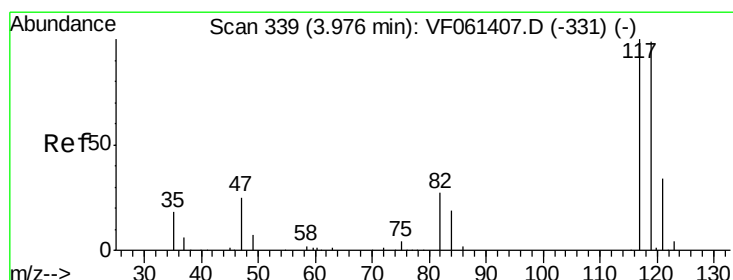
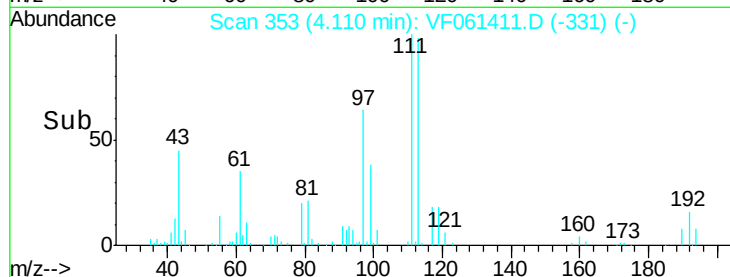
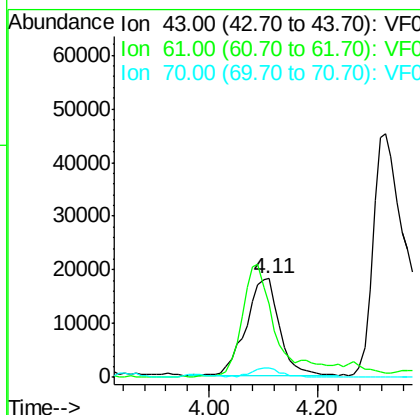
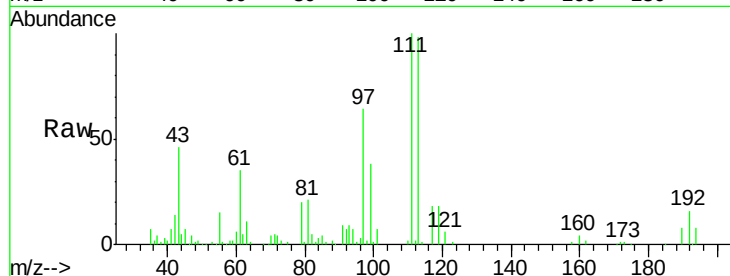
#37
Ethyl Acetate
Concen: 49.516 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.02 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	43	61	70	Ratio	Lower	Upper
77243	100	74.6	9.6			
		81.7	6.2			
			9.2			

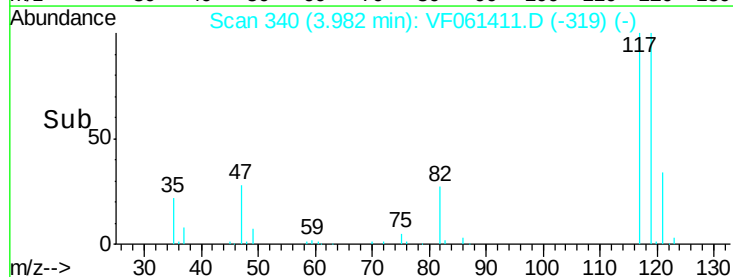
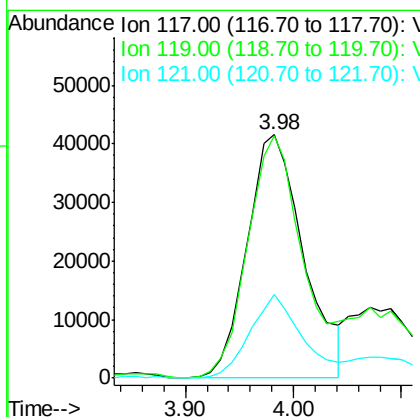
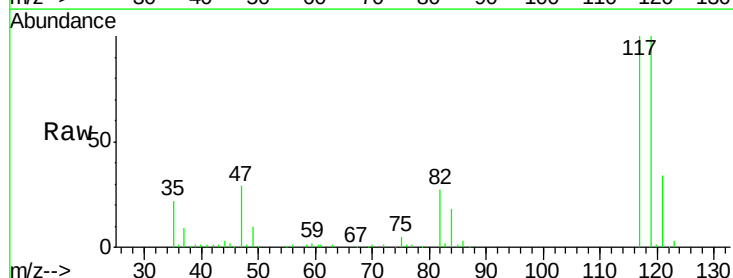
Manual Integrations
APPROVED

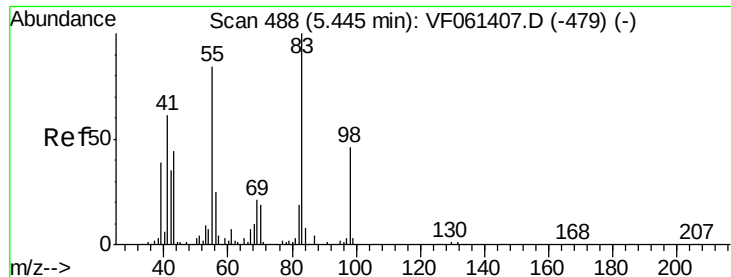
apatel
1/16/2019 4:06:13 PM



#38
Carbon Tetrachloride
Concen: 44.540 ug/l
RT: 3.98 min Scan# 340
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	117	119	121	Ratio	Lower	Upper
151959	100	99.7	34.4			
		79.0	27.0			
			40.6			





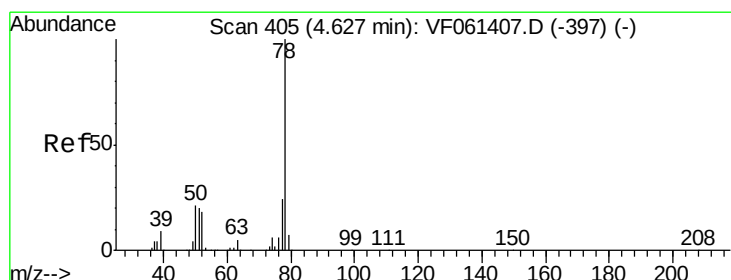
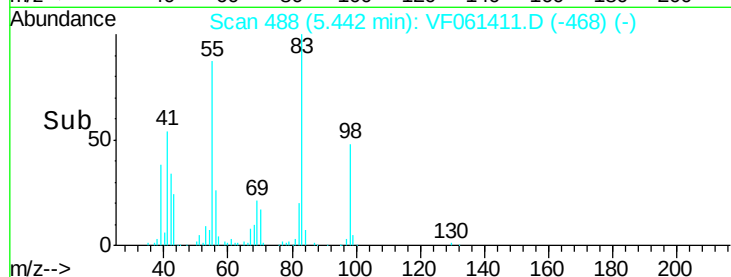
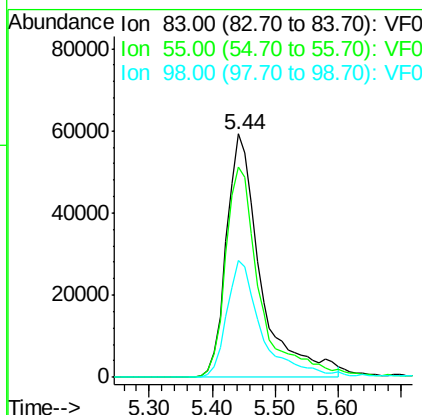
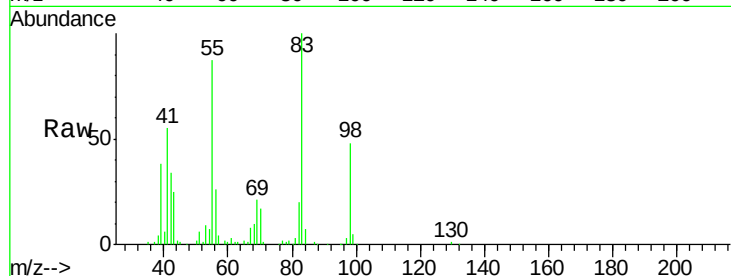
#39
Methylvlcyclohexane
Concen: 52.774 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ratio	Resp	Lower	Upper
83	100	223193		
55	86.6		67.4	101.2
98	48.0		36.7	55.1

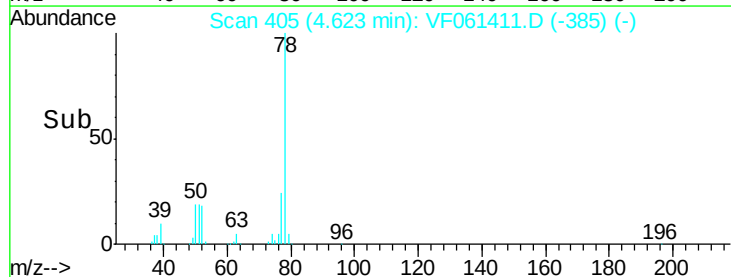
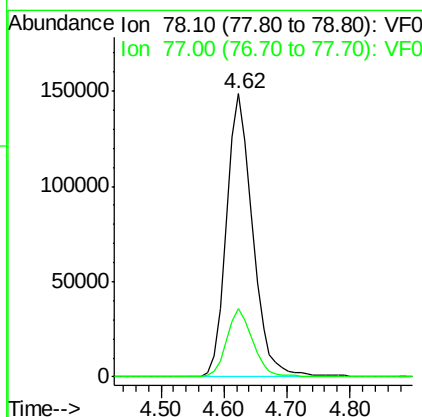
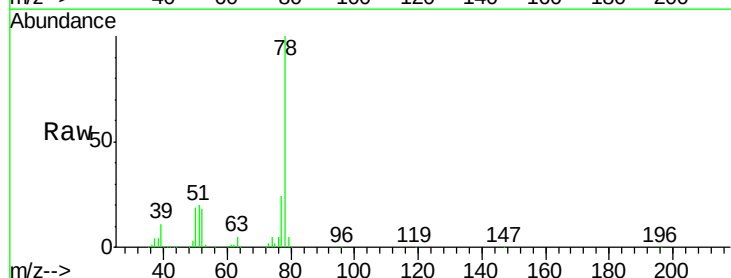
Manual Integrations
APPROVED

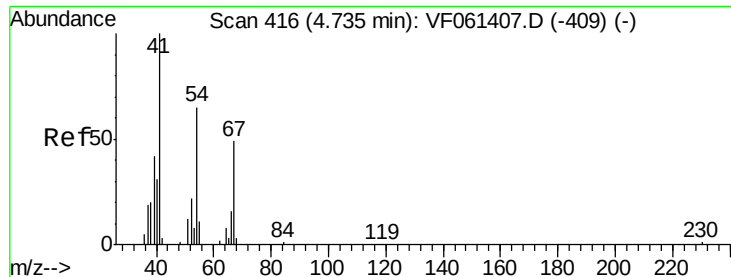
apatel
1/16/2019 4:06:13 PM



#40
Benzene
Concen: 49.115 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	426502		
77	24.2		19.0	28.6





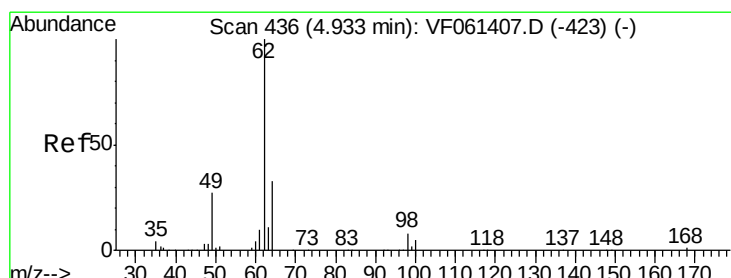
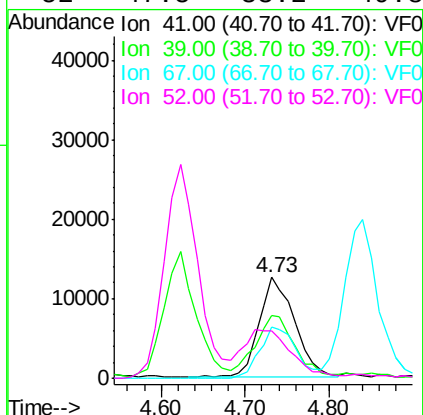
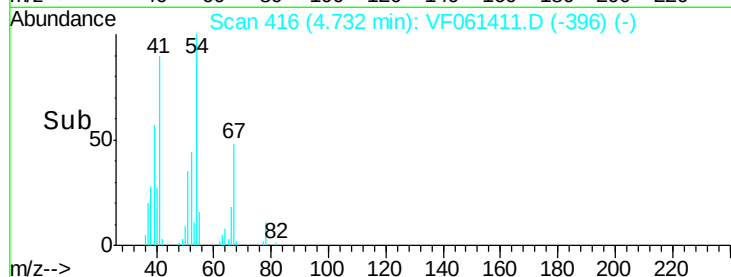
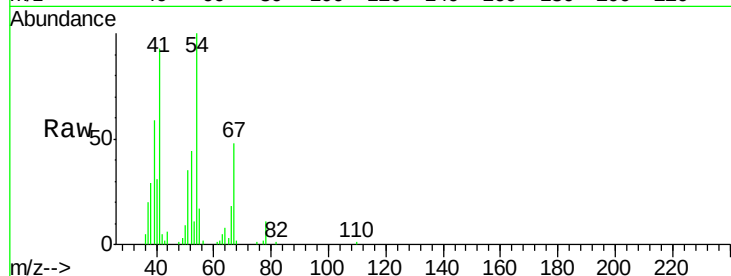
#41
Methacrylonitrile
Concen: 44.898 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ion	Ratio	Lower	Upper
37268	41	100		
	39	63.0	43.1	64.7
	67	51.0	38.8	58.2
	52	47.5	33.2	49.8

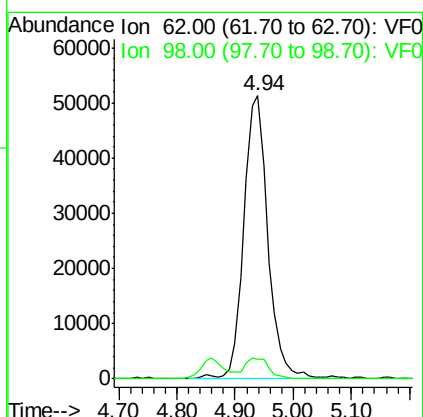
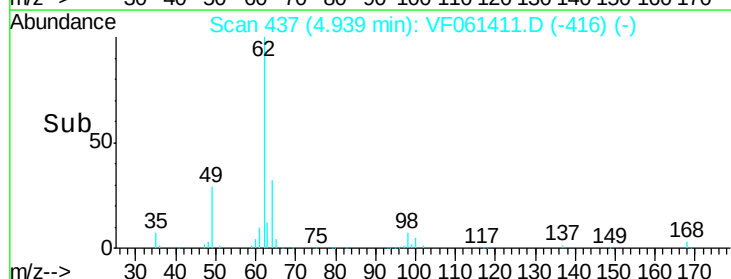
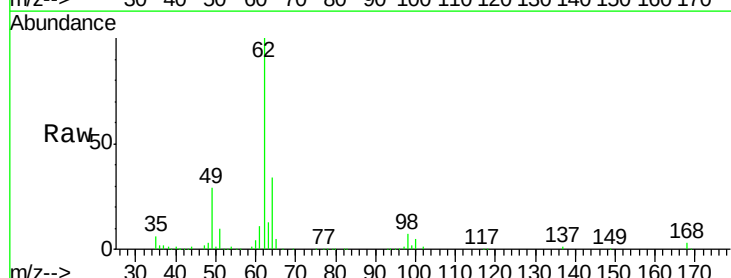
Manual Integrations
APPROVED

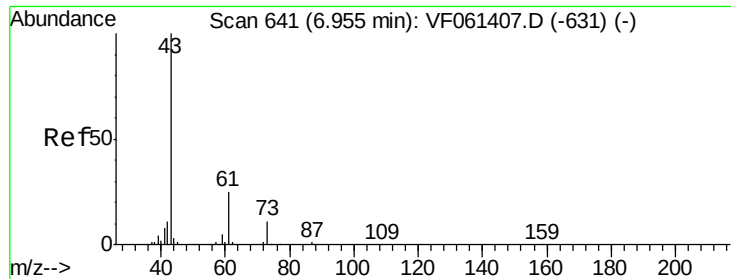
apatel
1/16/2019 4:06:13 PM



#42
1,2-Dichloroethane
Concen: 48.242 ug/l
RT: 4.94 min Scan# 437
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ion	Ratio	Lower	Upper
149279	62	100		
	98	6.9	0.0	17.0





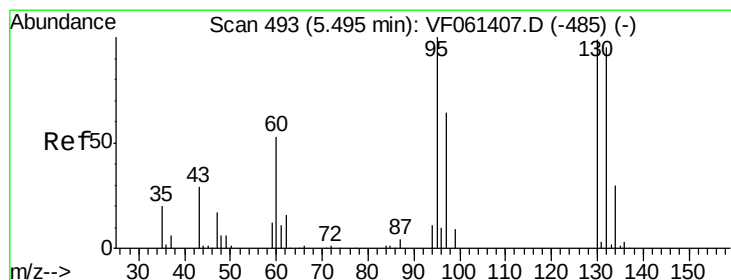
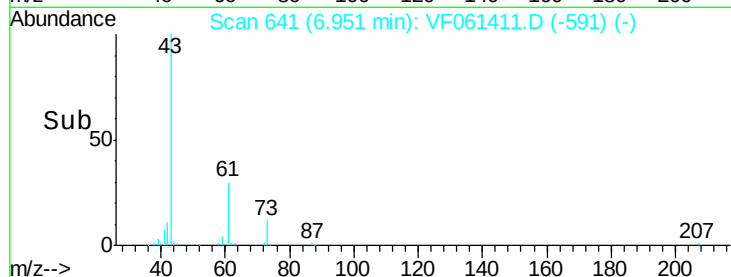
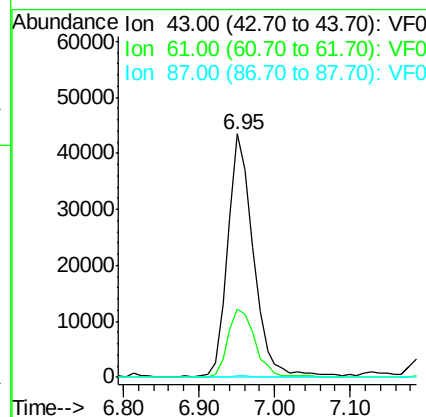
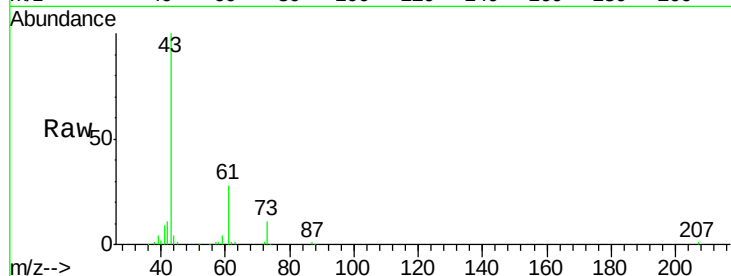
#43
Isopropyl Acetate
Concen: 52.682 ug/l
RT: 6.95 min Scan# 641
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.3	20.3	30.5
87	0.7	0.5	0.7

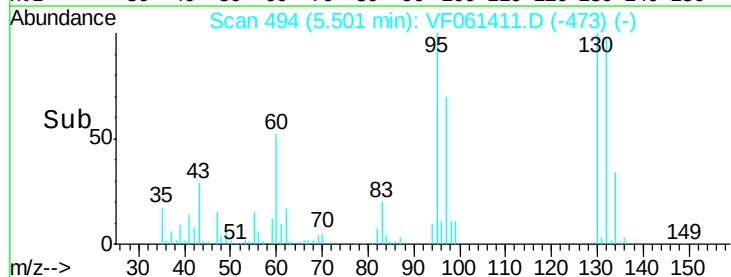
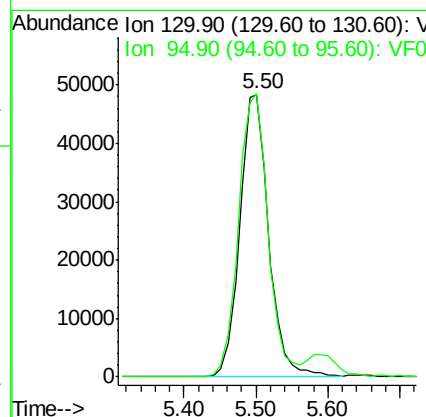
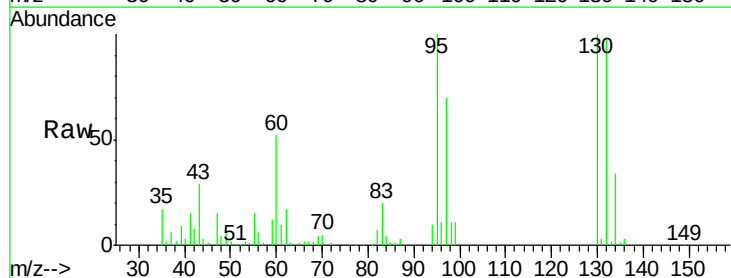
Manual Integrations
APPROVED

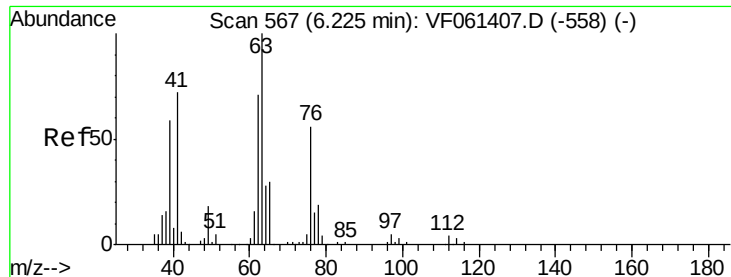
apatel
1/16/2019 4:06:13 PM



#44
Trichloroethene
Concen: 50.676 ug/l
RT: 5.50 min Scan# 494
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	202.8





#45

1,2-Dichloropropane

Concen: 50.376 ug/l

RT: 6.23 min Scan# 568

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion: 63 Resp: 114811

Ion Ratio Lower Upper

63 100

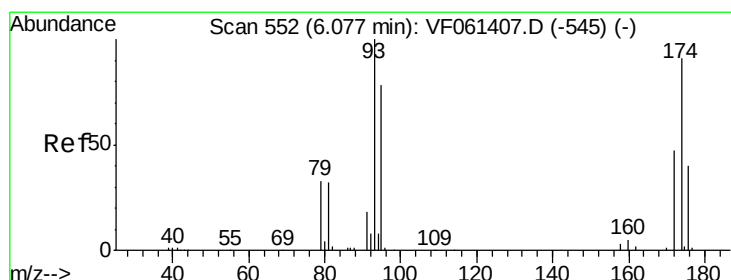
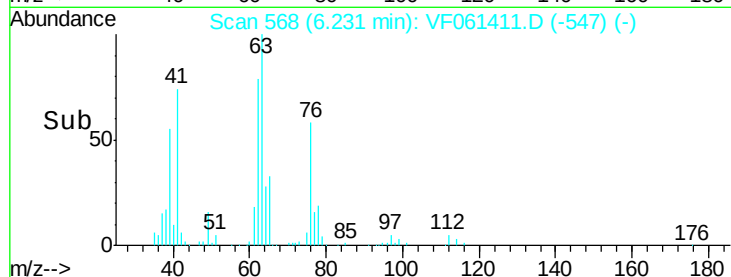
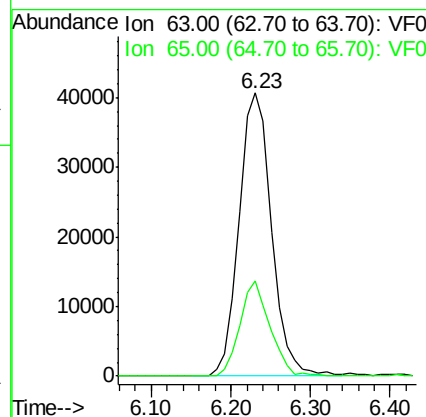
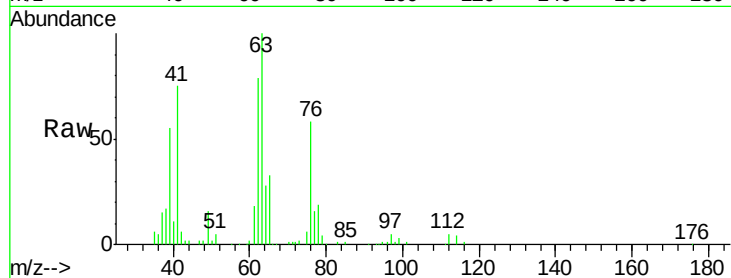
65 33.5 24.4 36.6

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



#46

Dibromomethane

Concen: 49.260 ug/l

RT: 6.08 min Scan# 553

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

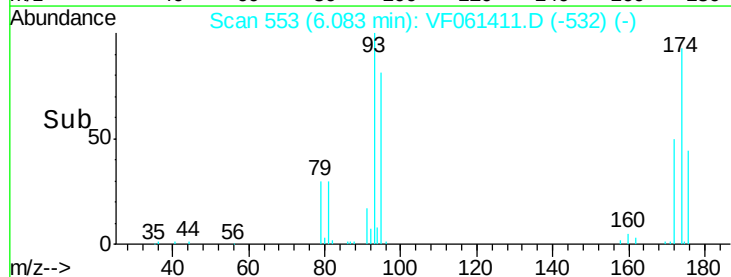
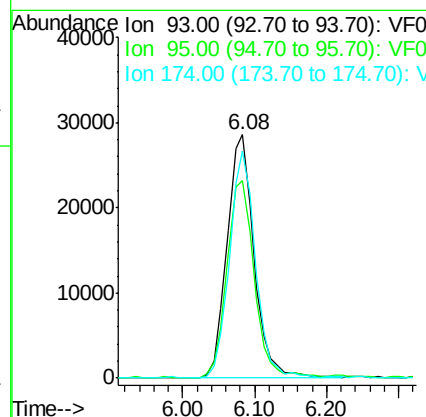
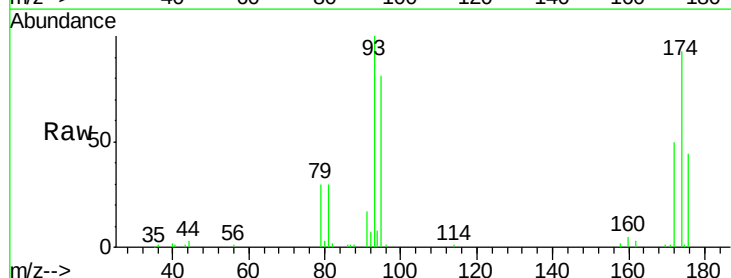
Tgt Ion: 93 Resp: 74650

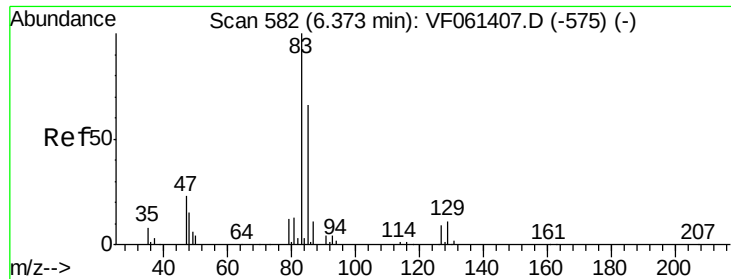
Ion Ratio Lower Upper

93 100

95 81.2 62.1 93.1

174 93.1 74.6 111.8





#47

Bromodichloromethane

Concen: 49.667 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

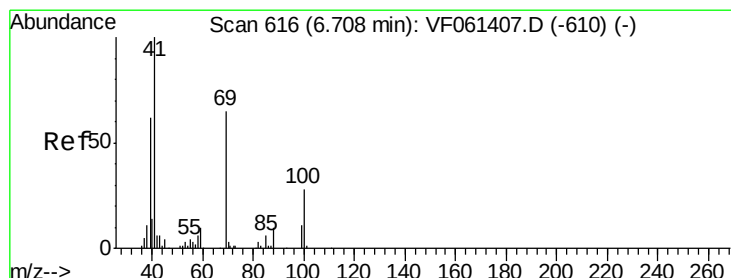
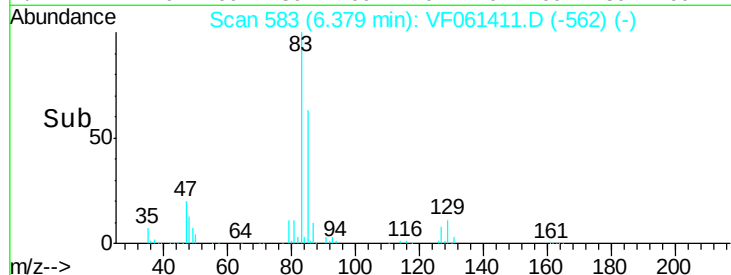
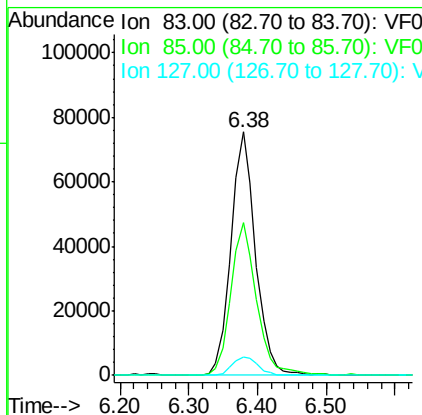
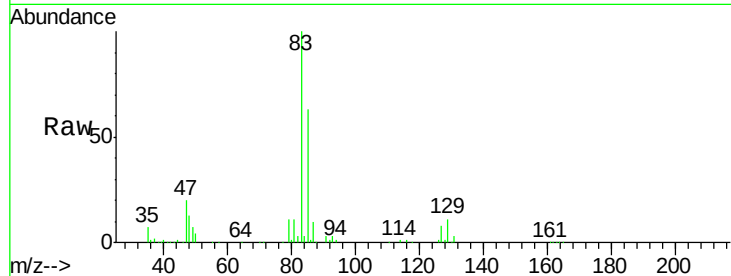
ClientSampleId :

ICVVF011519

Tot Ion:	83	Resp:	186226
Ion	Ratio	Lower	Upper
83	100		
85	62.8	53.0	79.4
127	7.5	6.9	10.3

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#48

Methyl methacrylate

Concen: 48.020 ug/l

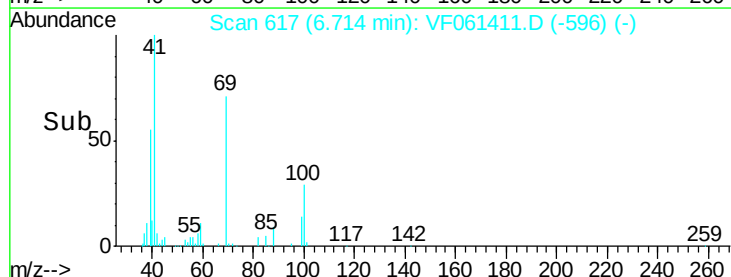
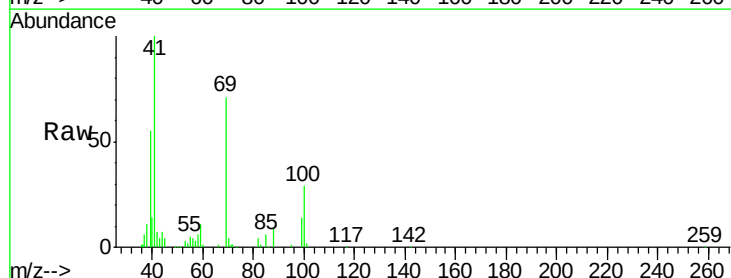
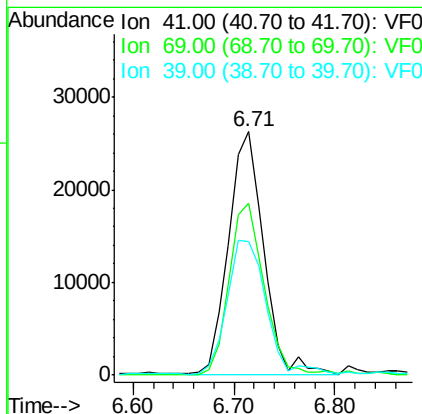
RT: 6.71 min Scan# 617

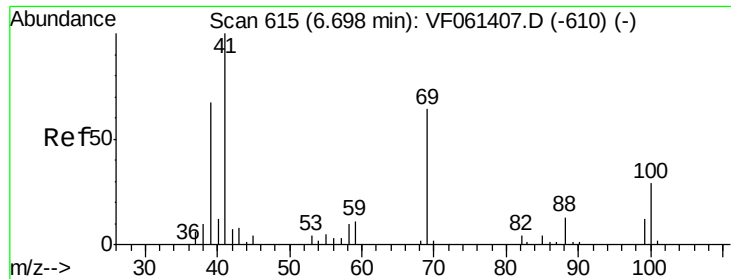
Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion:	41	Resp:	63132
Ion	Ratio	Lower	Upper
41	100		
69	70.6	51.7	77.5
39	55.0	49.2	73.8





#49

1,4-Dioxane

Concen: 1118.127 ug/l

RT: 6.70 min Scan# 616

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

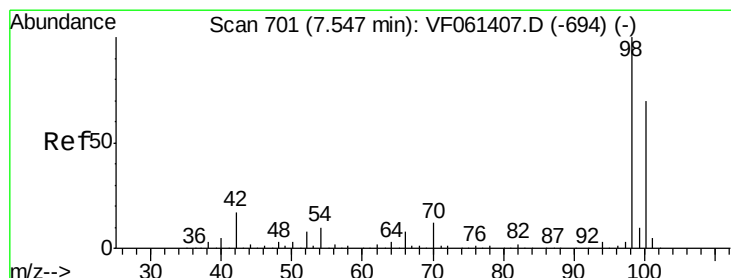
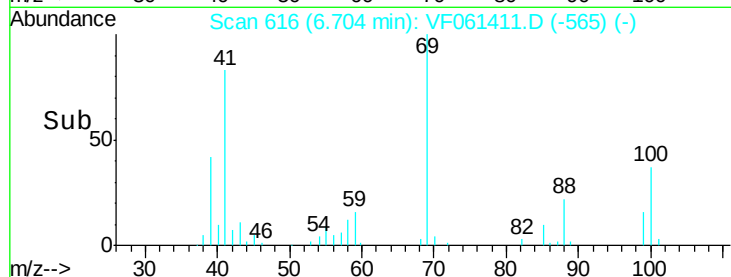
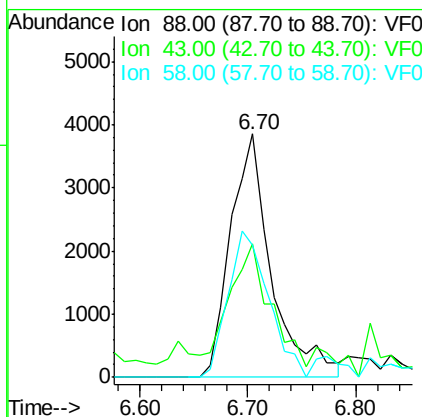
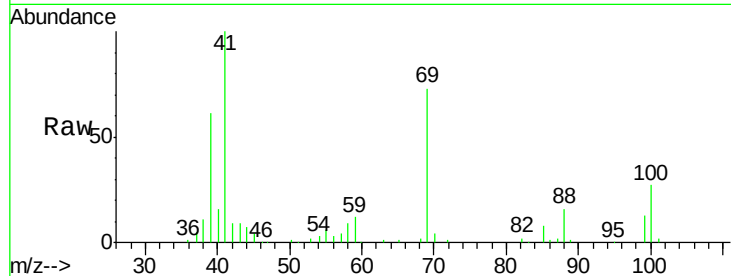
ClientSampleId :

ICVVF011519

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	54.8		55.5	83.3#
58	54.1		59.9	89.9#

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#50

Toluene-d8

Concen: 52.896 ug/l

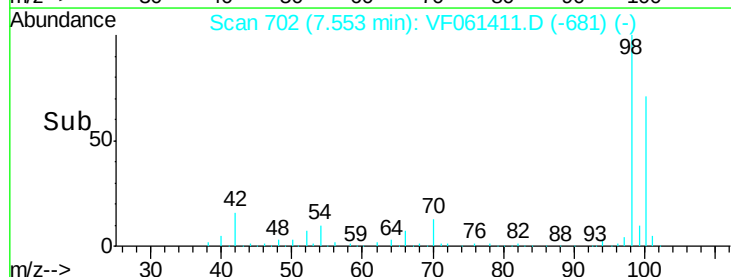
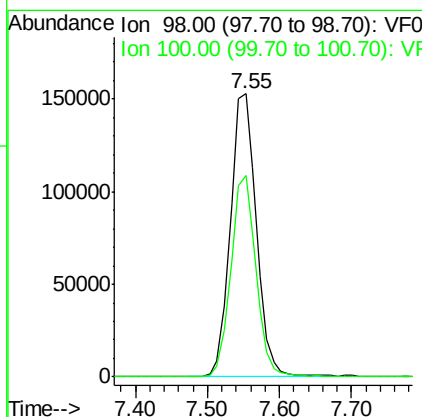
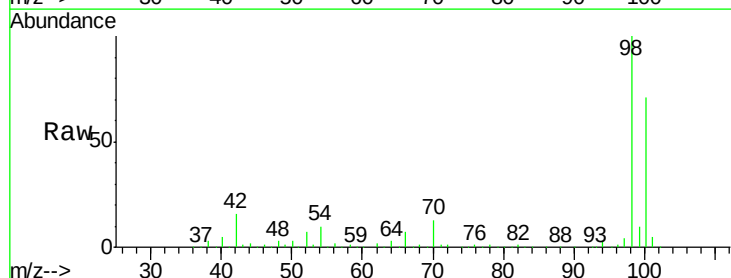
RT: 7.55 min Scan# 702

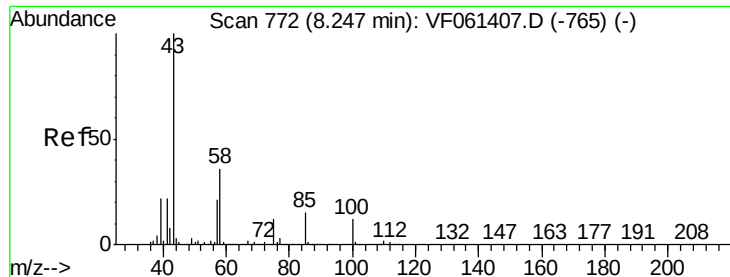
Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	71.1		55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 248.283 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tot Ion: 43 Resp: 357362

Ion Ratio Lower Upper

43 100

58 35.8 28.8 43.2

Instrument :

MSVOA_F

ClientSampleId :

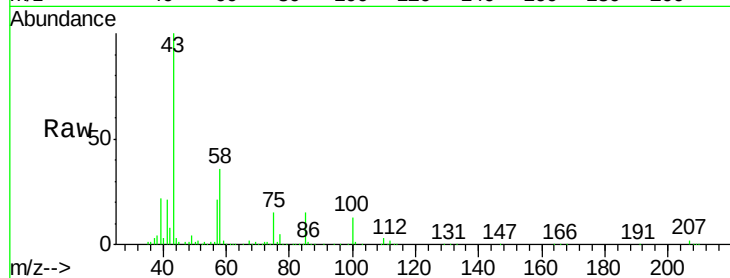
ICVVF011519

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

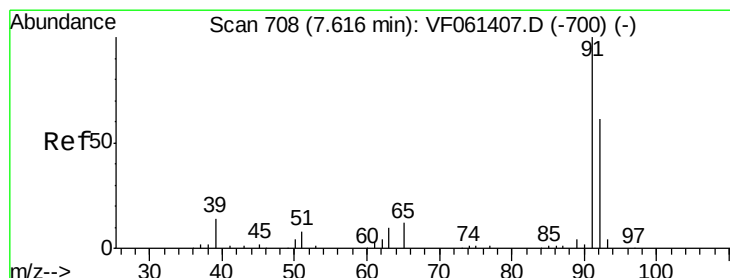
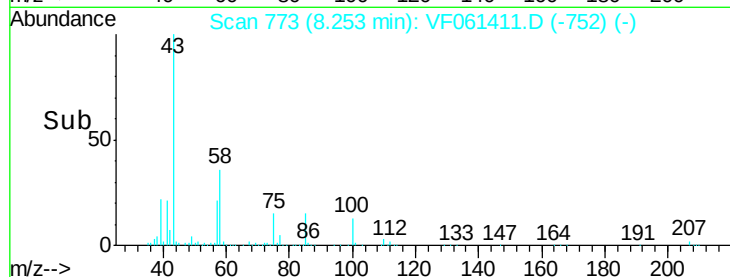
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 48.085 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061411.D

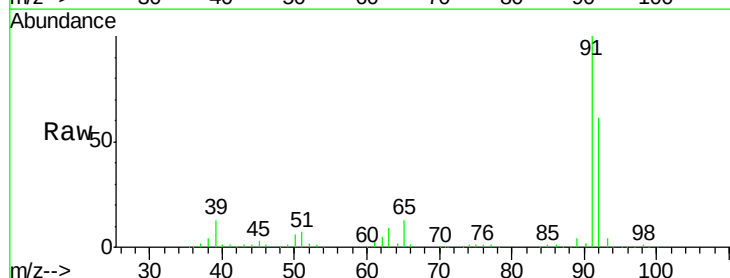
Acq: 15 Jan 2019 17:50

Tgt Ion: 92 Resp: 274975

Ion Ratio Lower Upper

92 100

91 163.9 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

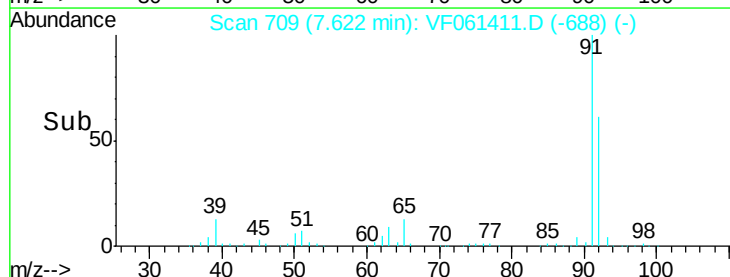
100000

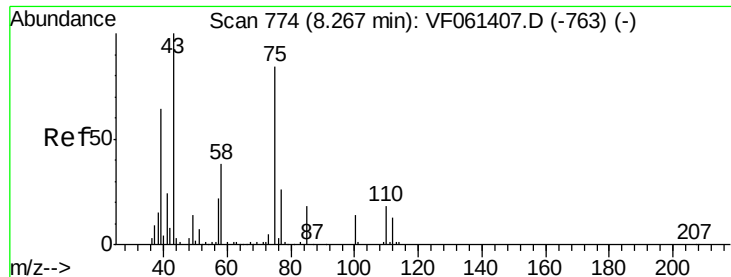
50000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 50.803 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061411.D

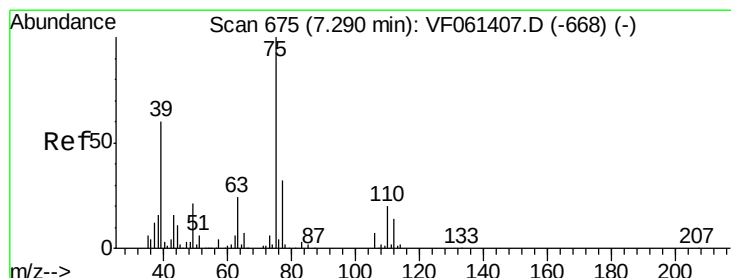
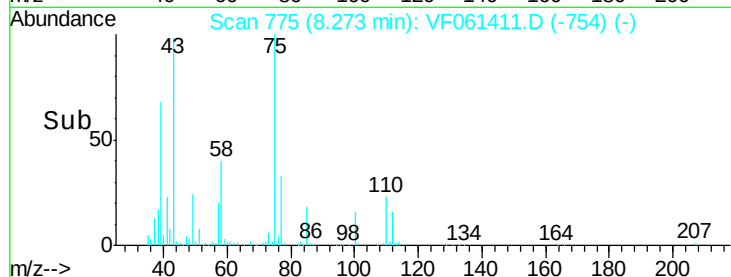
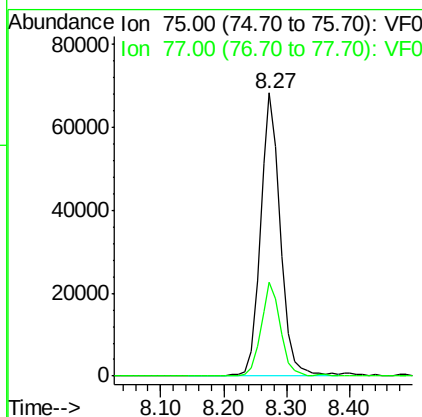
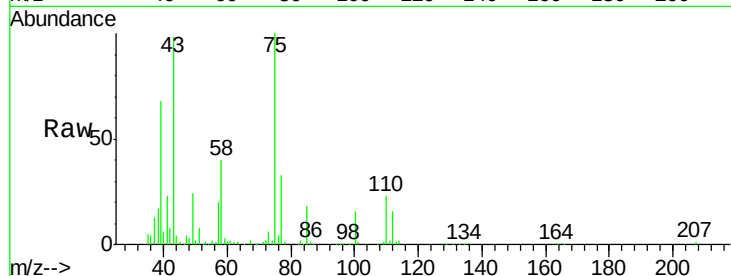
Acq: 15 Jan 2019 17:50

Tot Ion	Ratio	Resp	Lower	Upper
75	100	151257		
77	33.0	24.4	36.6	

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#54

cis-1,3-Dichloropropene

Concen: 53.934 ug/l

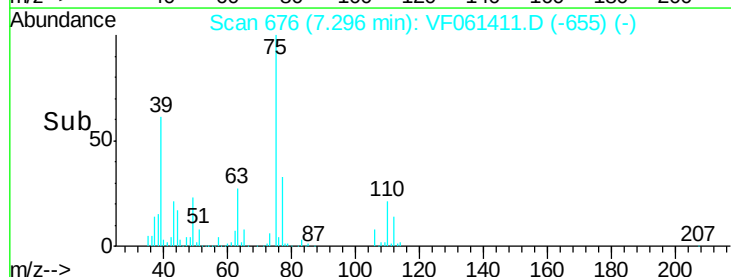
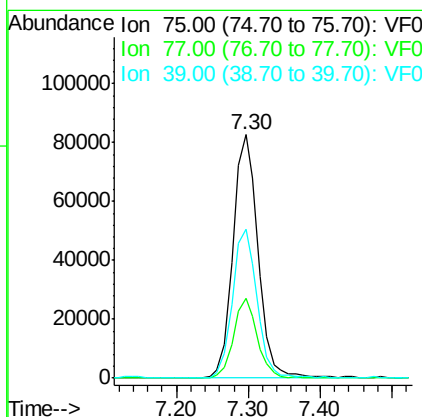
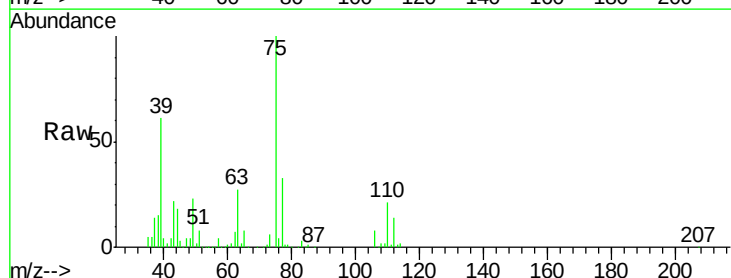
RT: 7.30 min Scan# 676

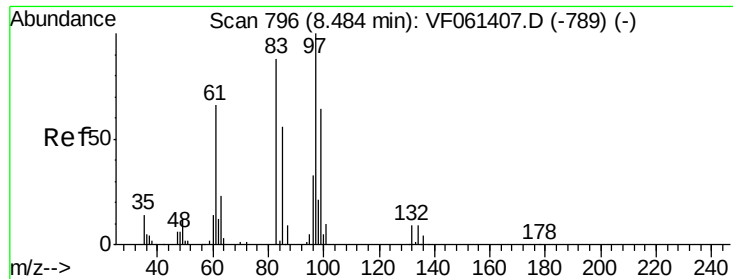
Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	200720		
77	32.8	25.4	38.0	
39	61.3	47.8	71.8	





#55

1,1,2-Trichloroethane

Concen: 52.137 ug/l

RT: 8.49 min Scan# 797

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

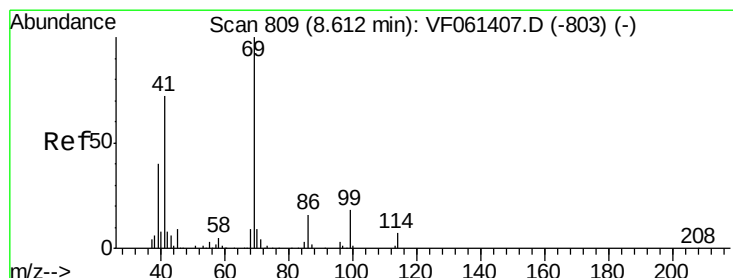
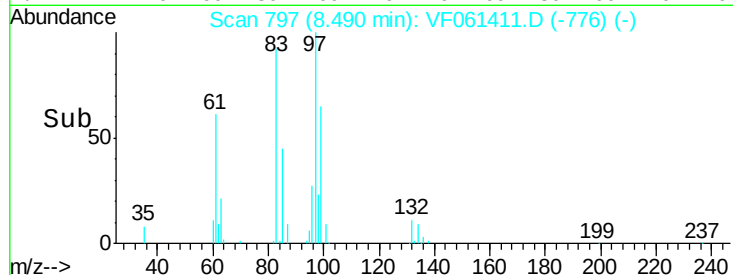
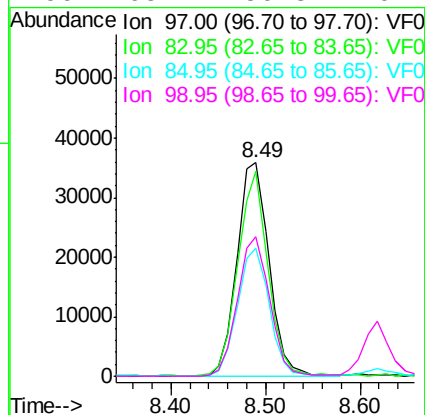
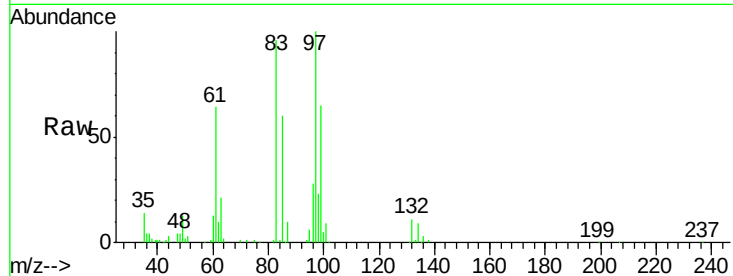
ClientSampleId :

ICVVF011519

Tot Ion:	97	Resp:	84666
Ion	Ratio	Lower	Upper
97	100		
83	96.0	70.4	105.6
85	60.0	44.7	67.1
99	65.1	50.8	76.2

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#56

Ethyl methacrylate

Concen: 49.500 ug/l

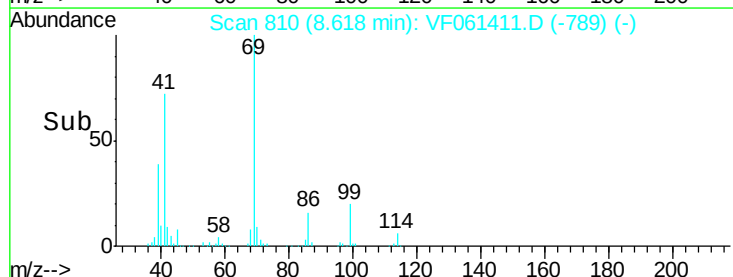
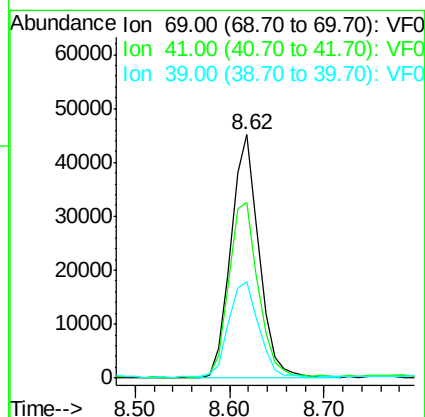
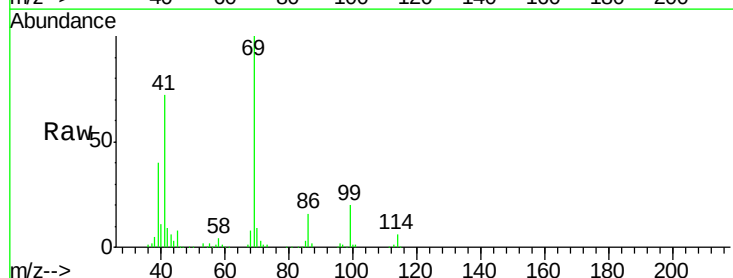
RT: 8.62 min Scan# 810

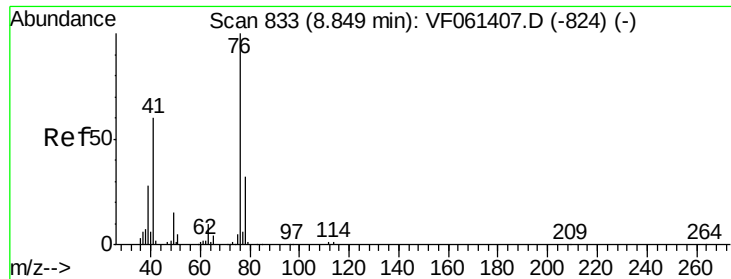
Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion:	69	Resp:	93520
Ion	Ratio	Lower	Upper
69	100		
41	72.4	57.5	86.3
39	39.6	32.0	48.0





#57

1,3-Dichloropropane

Concen: 47.876 ug/l

RT: 8.85 min Scan# 833

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion: 76 Resp: 145724

Ion Ratio Lower Upper

76 100

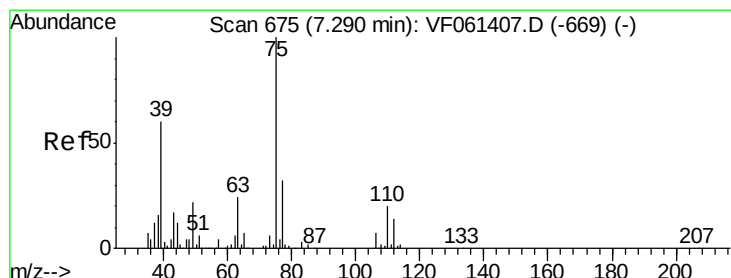
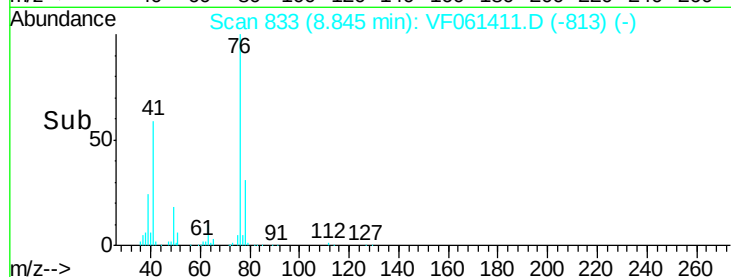
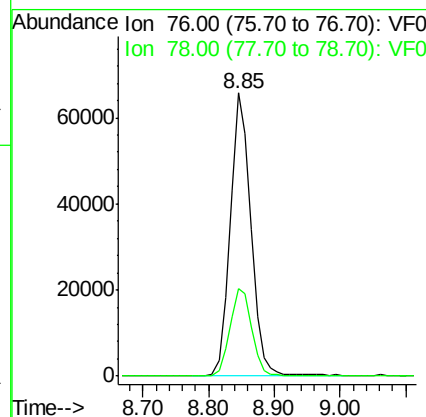
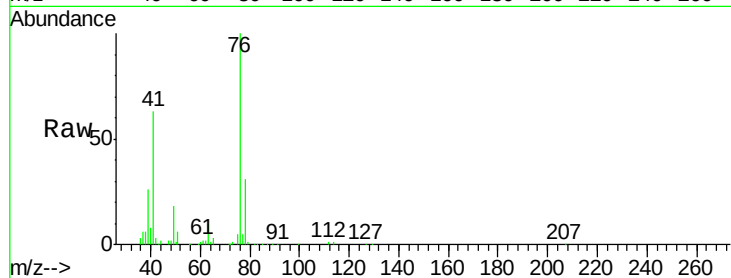
78 31.0 25.3 37.9

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



#58

2-Chloroethyl Vinyl ether

Concen: 271.113 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061411.D

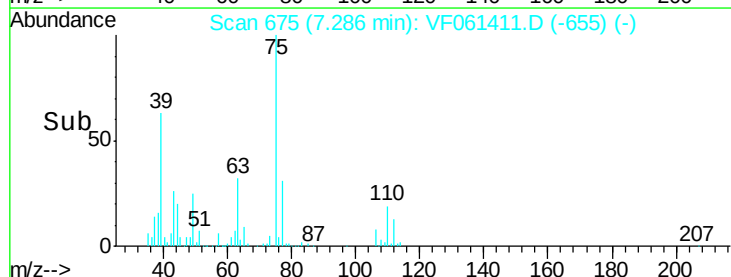
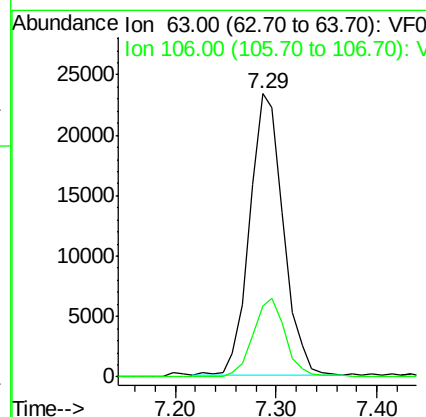
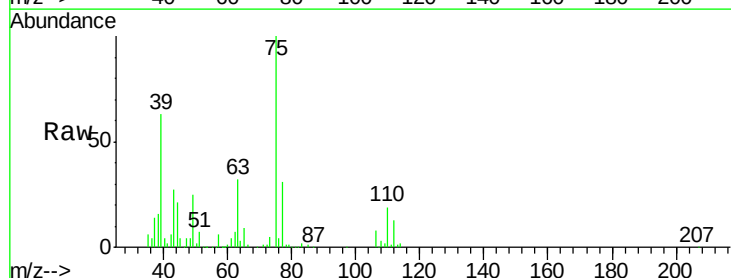
Acq: 15 Jan 2019 17:50

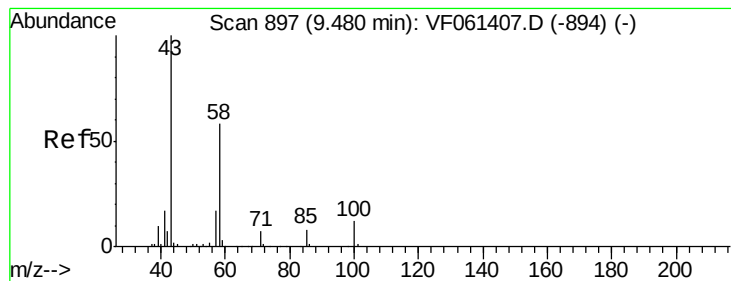
Tgt Ion: 63 Resp: 54229

Ion Ratio Lower Upper

63 100

106 25.1 21.9 32.9





#59

2-Hexanone

Concen: 241.406 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion: 43 Resp: 242293

Ion Ratio Lower Upper

43 100

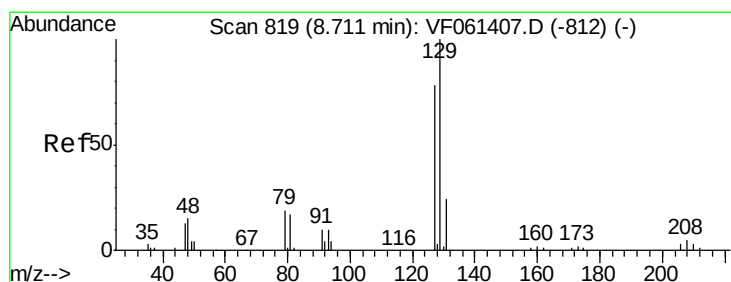
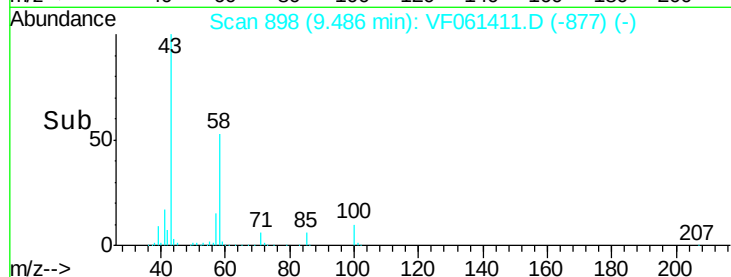
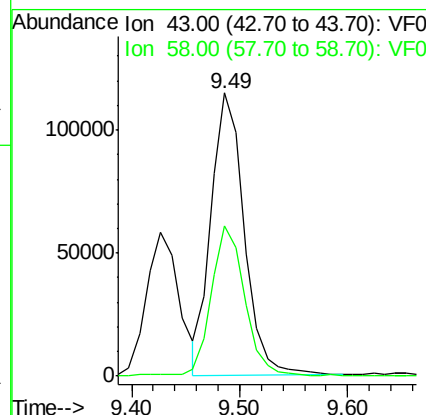
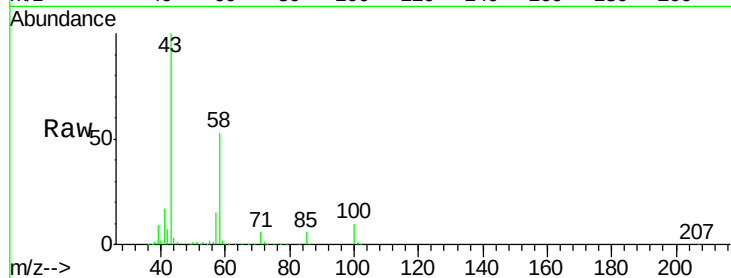
58 53.0 25.9 77.6

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



#60

Dibromochloromethane

Concen: 49.392 ug/l

RT: 8.71 min Scan# 819

Delta R.T. -0.00 min

Lab File: VF061411.D

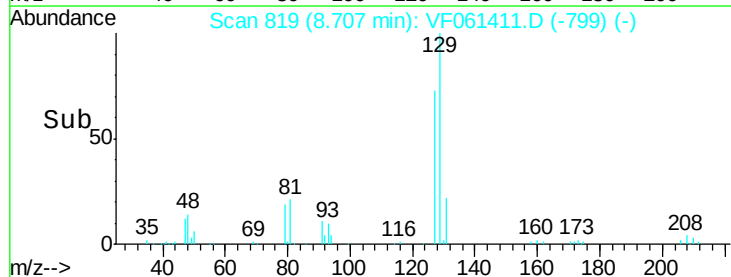
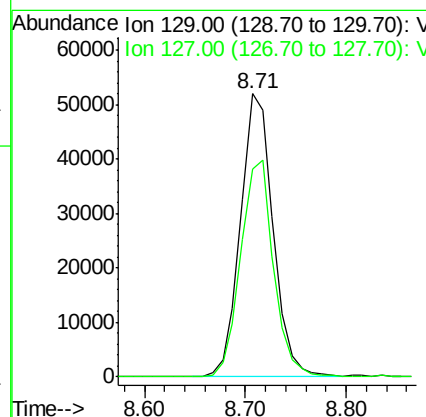
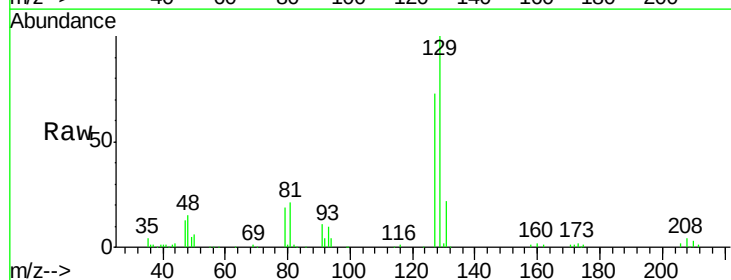
Acq: 15 Jan 2019 17:50

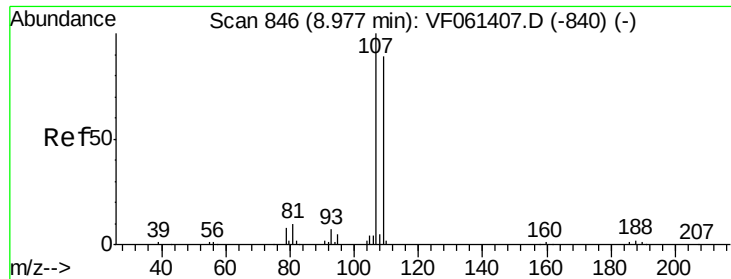
Tgt Ion: 129 Resp: 117259

Ion Ratio Lower Upper

129 100

127 73.4 39.1 117.2





#61

1,2-Dibromoethane

Concen: 48.101 ug/l

RT: 8.98 min Scan# 847

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion:107 Resp: 89422

Ion Ratio Lower Upper

107 100

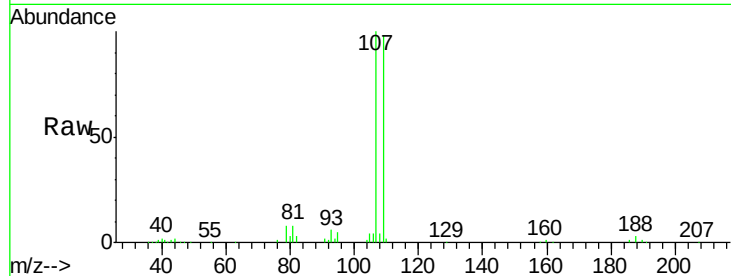
109 98.0 70.8 106.2

Manual Integrations

APPROVED

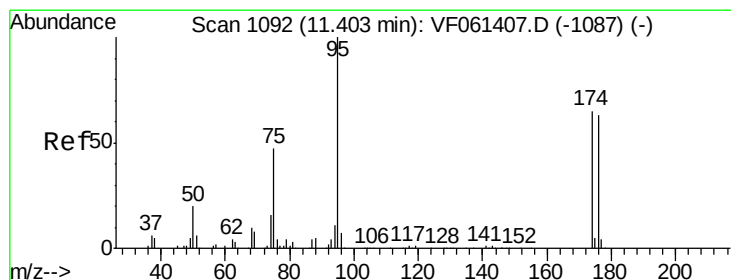
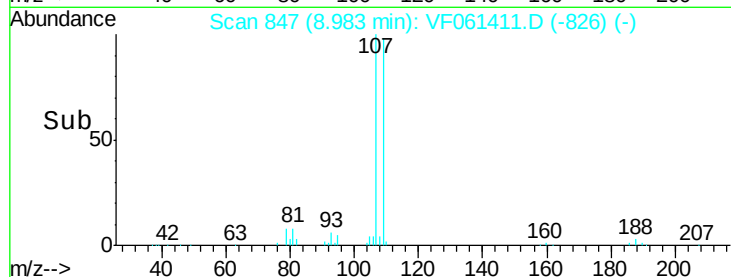
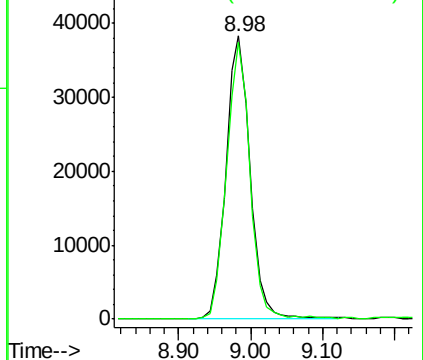
apatel

1/16/2019 4:06:13 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 46.546 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

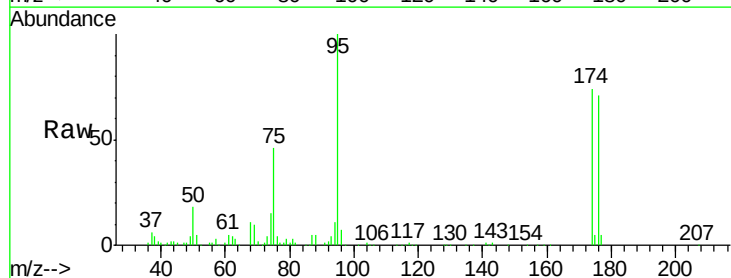
Tgt Ion: 95 Resp: 158252

Ion Ratio Lower Upper

95 100

174 73.9 0.0 130.4

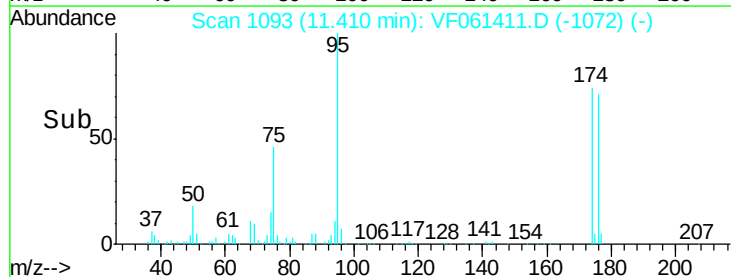
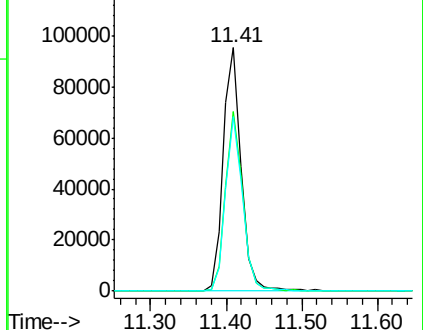
176 71.4 0.0 126.2

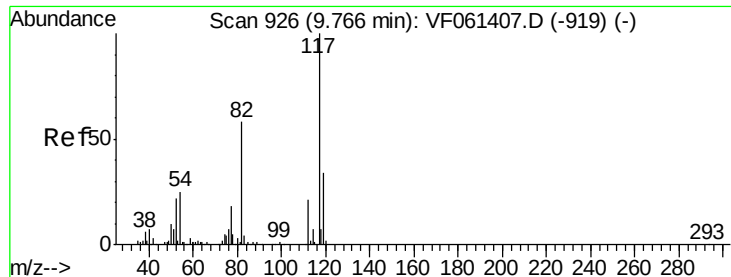


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





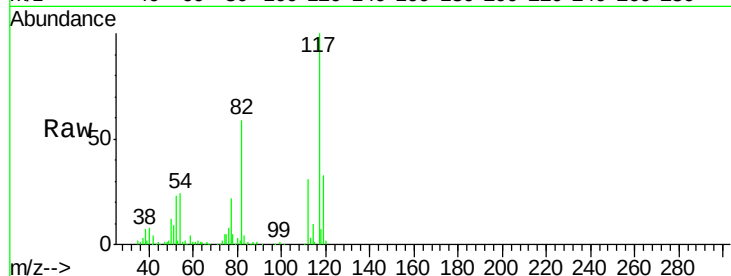
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

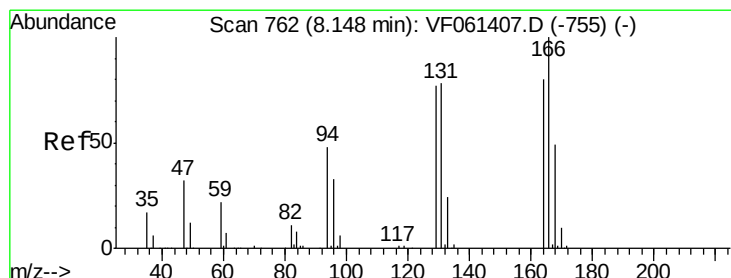
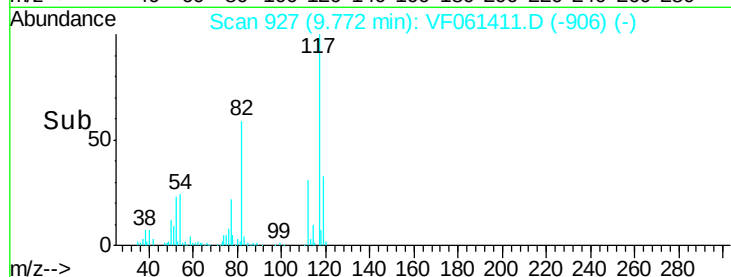
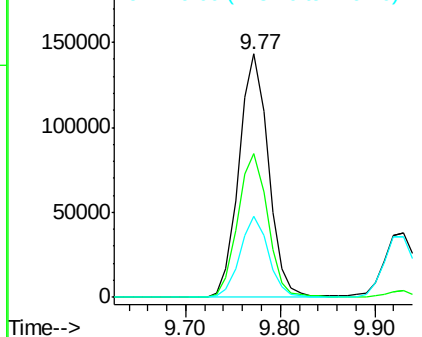
Tot Ion:	117	Resp:	311185
Ion Ratio	Lower	Upper	
117	100		
82	58.8	46.4	69.6
119	33.5	27.2	40.8

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



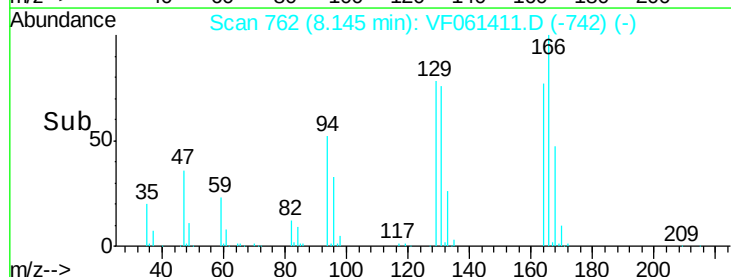
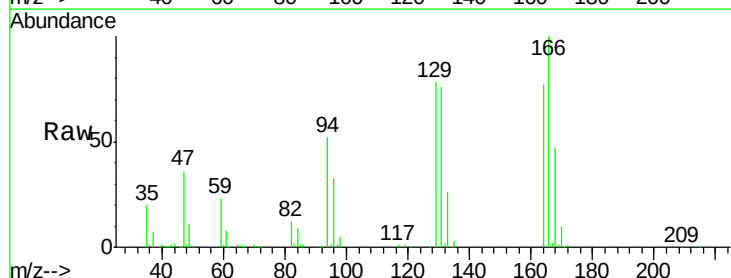
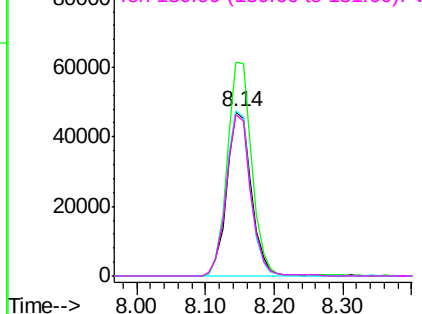
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

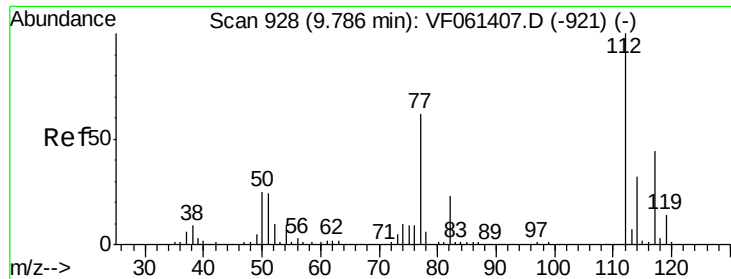


#64
Tetrachloroethene
Concen: 49.641 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion:	164	Resp:	116167
Ion Ratio	Lower	Upper	
164	100		
166	129.9	99.6	149.4
129	100.8	76.4	114.6
131	98.1	77.9	116.9

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 51.157 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion:112 Resp: 323727

Ion Ratio Lower Upper

112 100

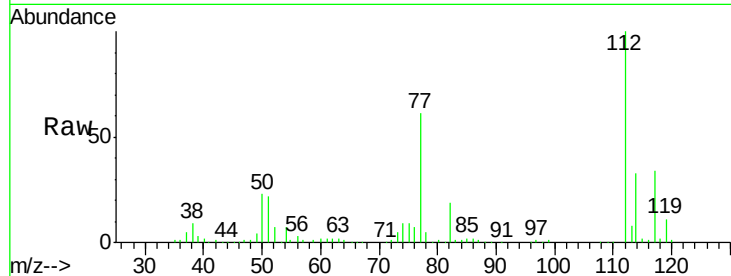
114 32.9 25.4 38.0

Manual Integrations

APPROVED

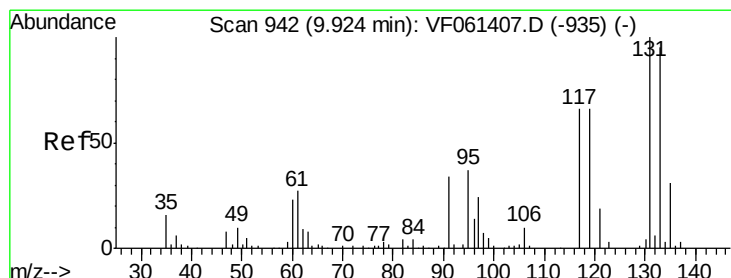
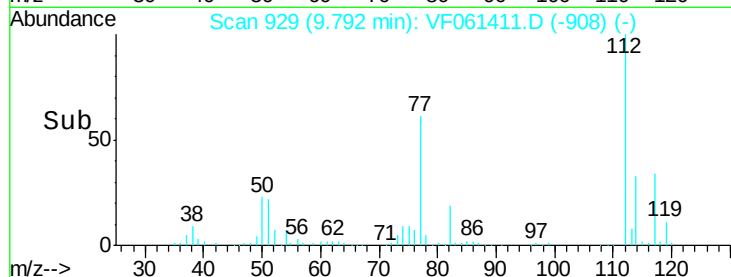
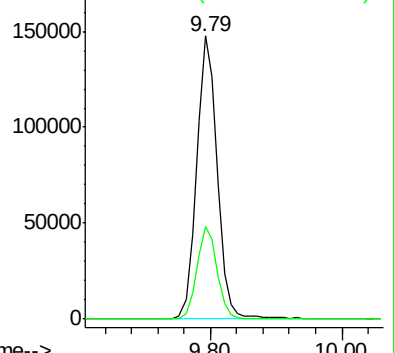
apatel

1/16/2019 4:06:13 PM



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: 49.410 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

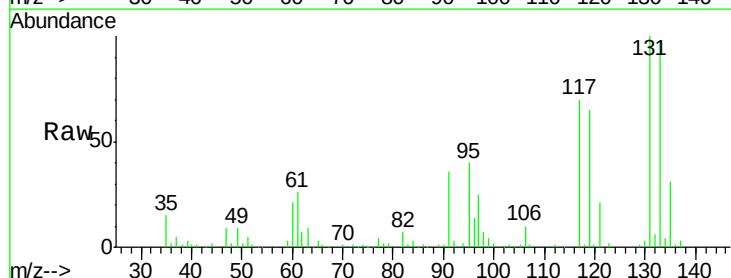
Tgt Ion:131 Resp: 124558

Ion Ratio Lower Upper

131 100

133 98.2 47.4 142.2

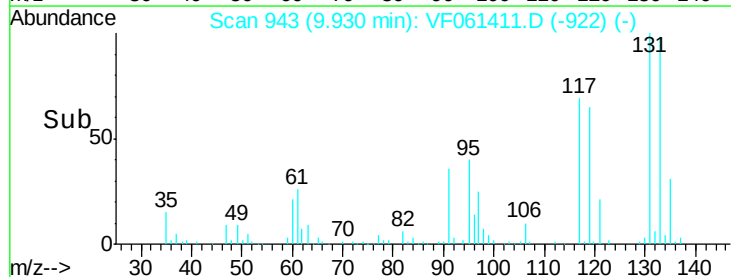
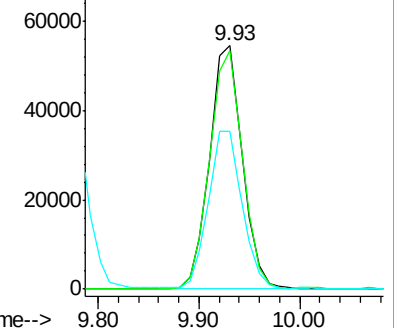
119 65.0 33.1 99.3

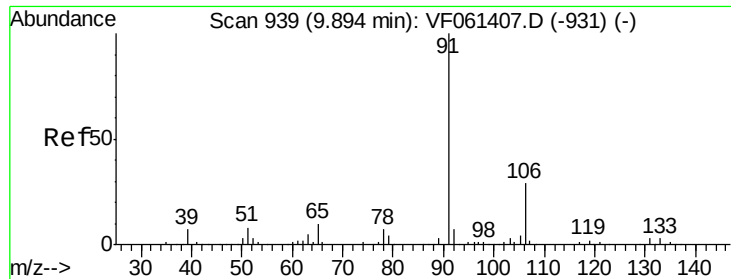


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





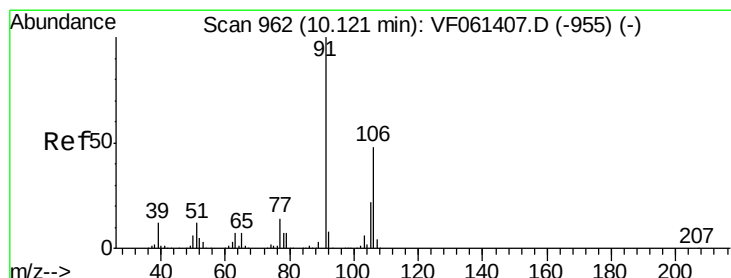
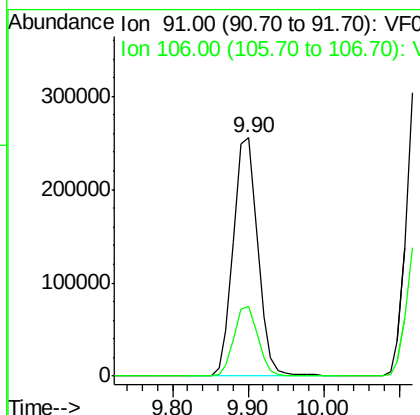
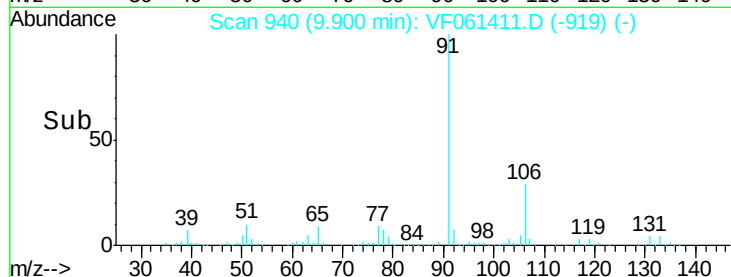
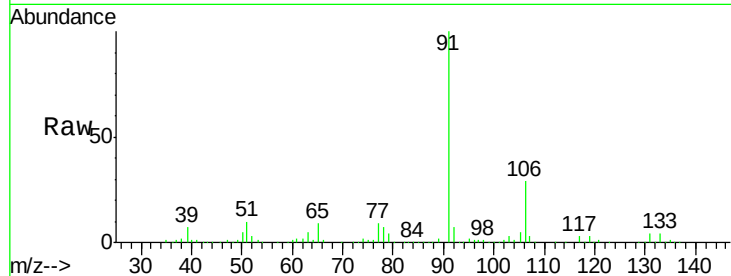
#67
Ethyl Benzene
Concen: 49.520 ug/l
RT: 9.90 min Scan# 940
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion: 91 Resp: 572539
Ion Ratio Lower Upper
91 100
106 29.0 23.1 34.7

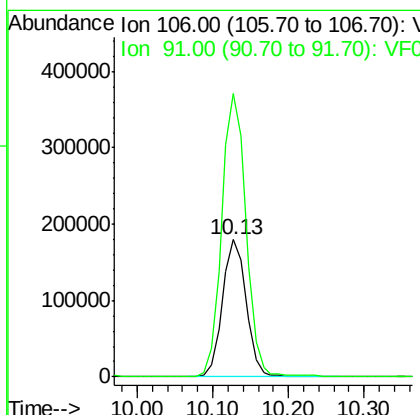
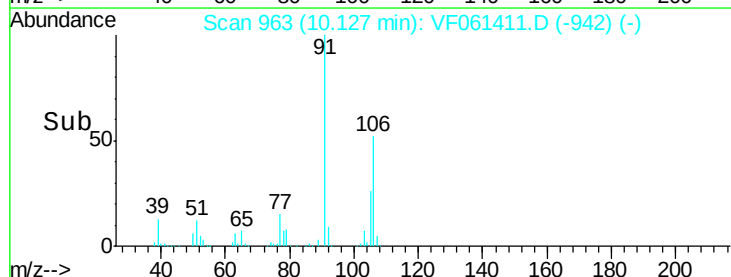
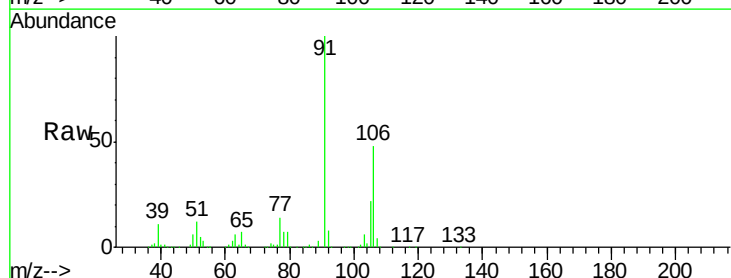
Manual Integrations
APPROVED

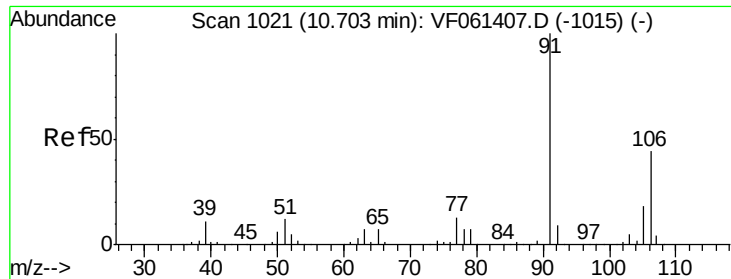
apatel
1/16/2019 4:06:13 PM



#68
m/p-Xylenes
Concen: 94.775 ug/l
RT: 10.13 min Scan# 963
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion: 106 Resp: 394116
Ion Ratio Lower Upper
106 100
91 206.8 166.2 249.4





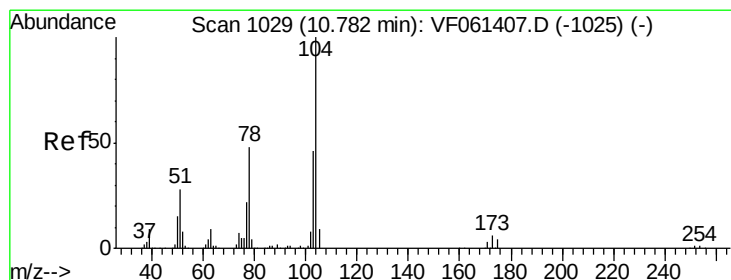
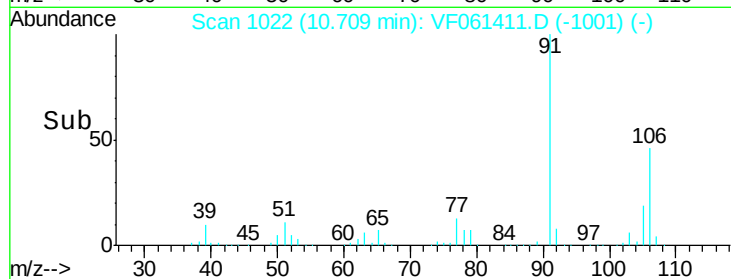
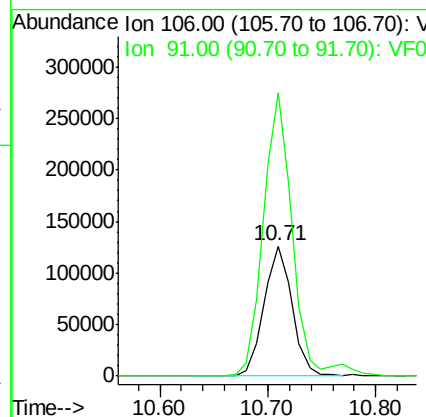
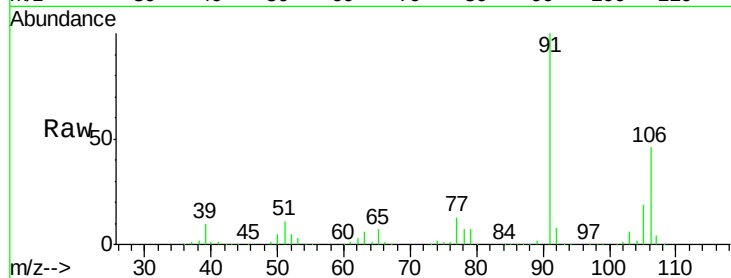
#69
o-Xylene
Concen: 51.247 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion:106 Resp: 230970
Ion Ratio Lower Upper
106 100
91 218.1 113.3 339.8

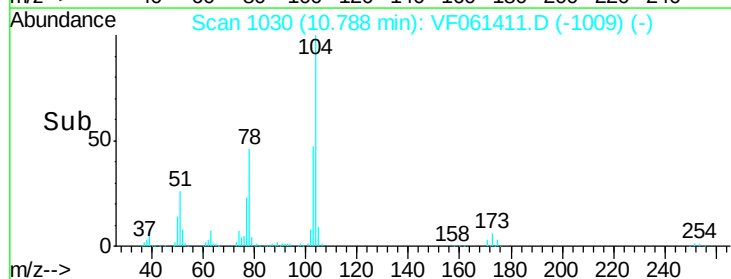
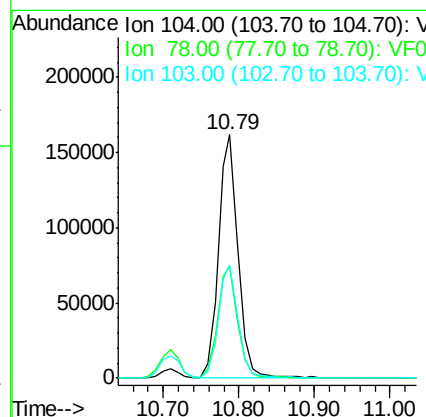
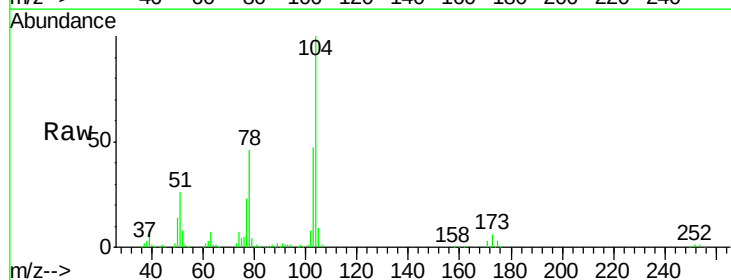
Manual Integrations
APPROVED

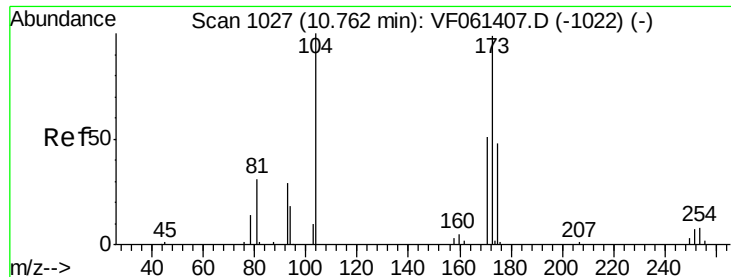
apatel
1/16/2019 4:06:13 PM



#70
Styrene
Concen: 47.548 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion:104 Resp: 293340
Ion Ratio Lower Upper
104 100
78 45.9 38.8 58.2
103 46.5 37.0 55.6





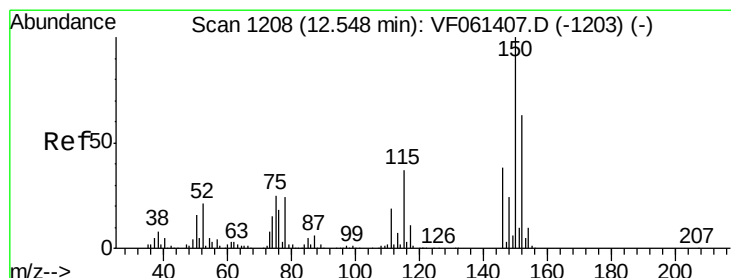
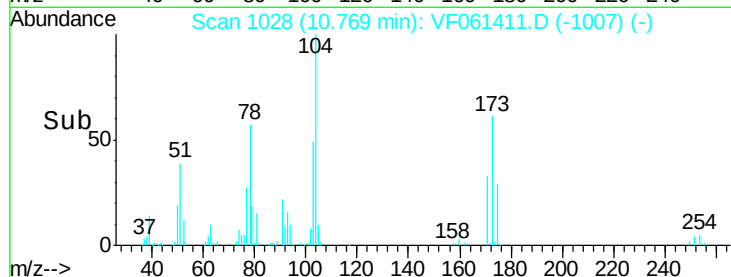
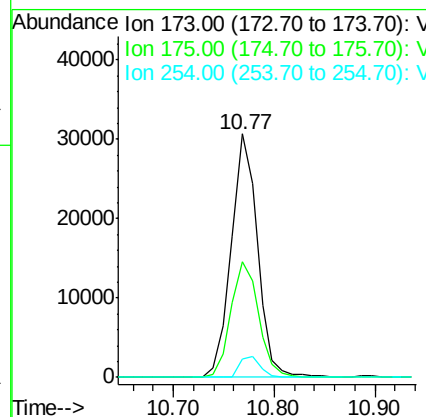
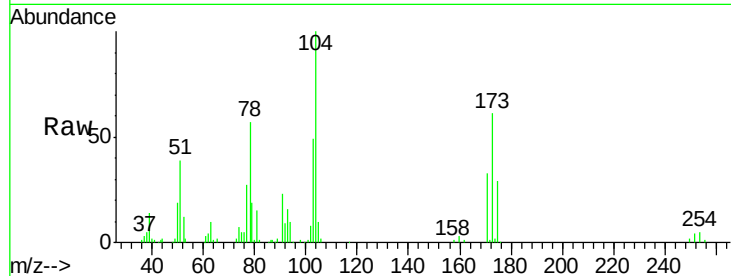
#71
Bromoform
Concen: 49.006 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.3	24.1	72.4
254	7.5	0.0	0.0#

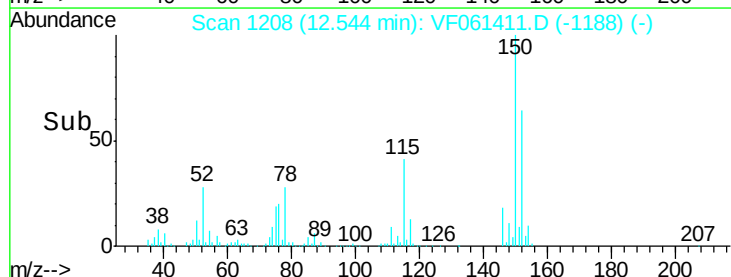
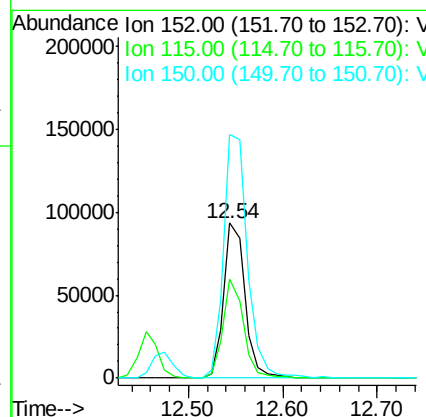
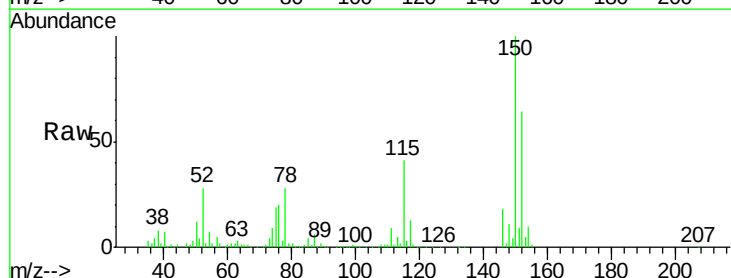
Manual Integrations
APPROVED

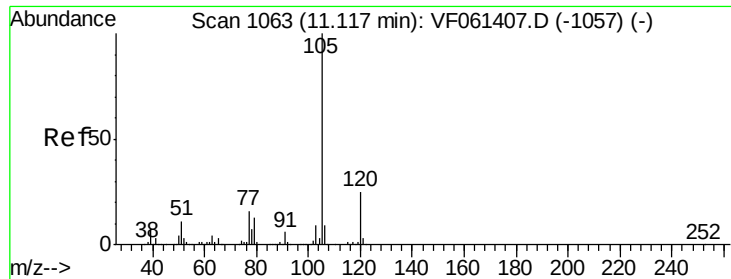
apatel
1/16/2019 4:06:13 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.8	30.0	90.0
150	156.8	0.0	321.4





#73

Isopropylbenzene

Concen: 52.981 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion:105 Resp: 634688

Ion Ratio Lower Upper

105 100

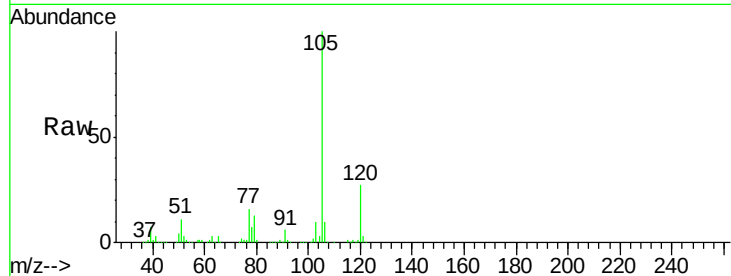
120 26.9 12.6 37.8

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.12

400000

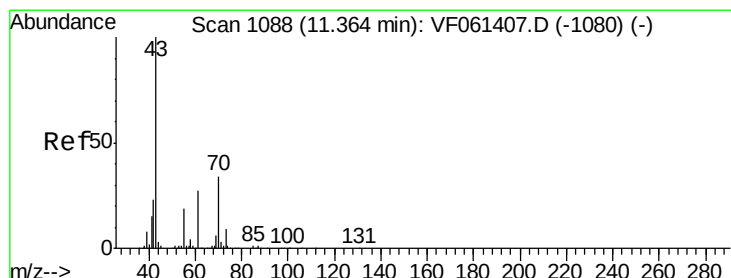
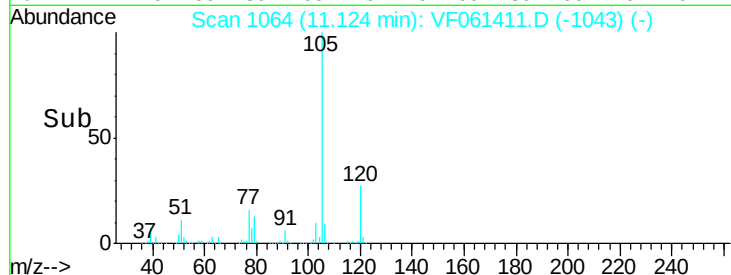
300000

200000

100000

0

Time--> 11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 54.459 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion: 43 Resp: 154268

Ion Ratio Lower Upper

43 100

70 34.1 27.6 41.4

55 20.0 15.4 23.2

61 26.3 21.8 32.6

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

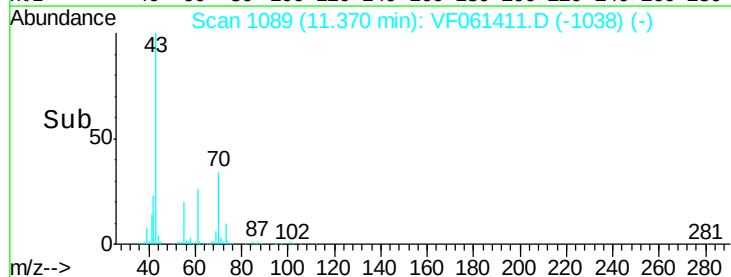
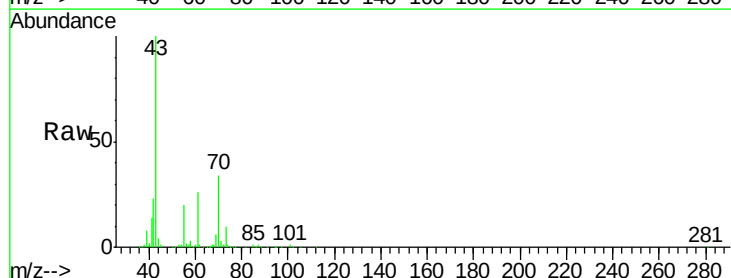
150000

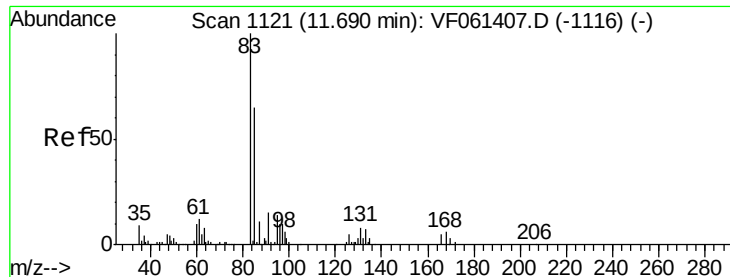
100000

50000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 50.517 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

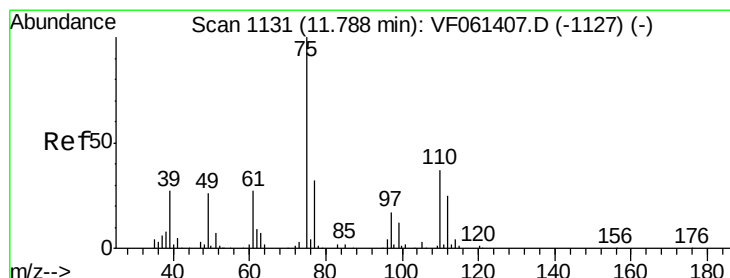
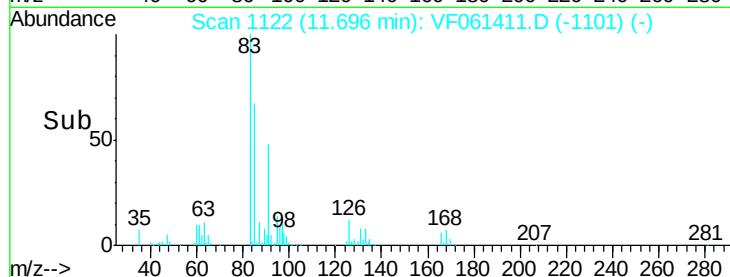
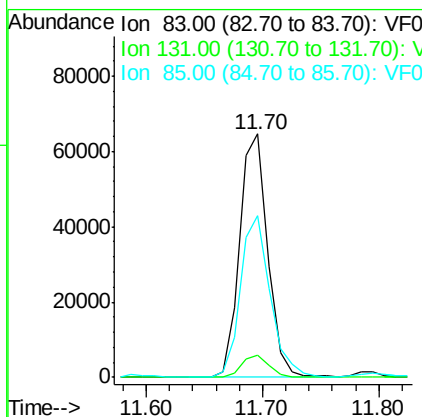
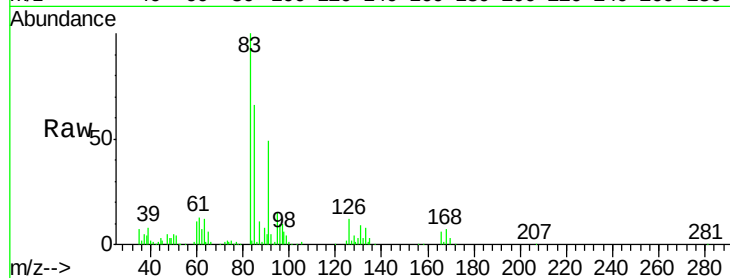
ClientSampleId :

ICVVF011519

Tot Ion:	83	Resp:	107810
Ion Ratio		Lower	Upper
83	100		
131	9.2	4.0	12.2
85	66.5	32.7	98.1

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#76

1,2,3-Trichloropropane

Concen: 49.709 ug/l

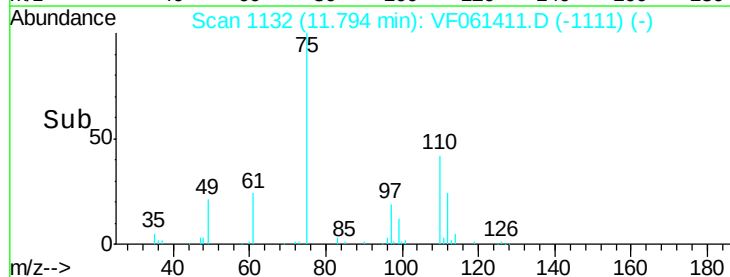
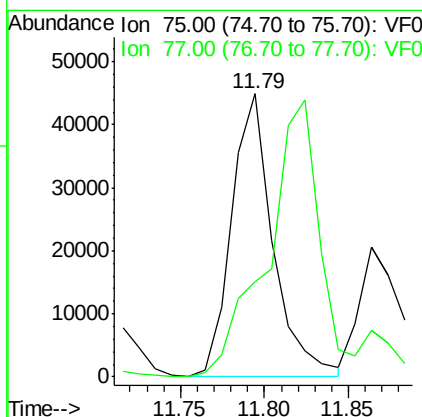
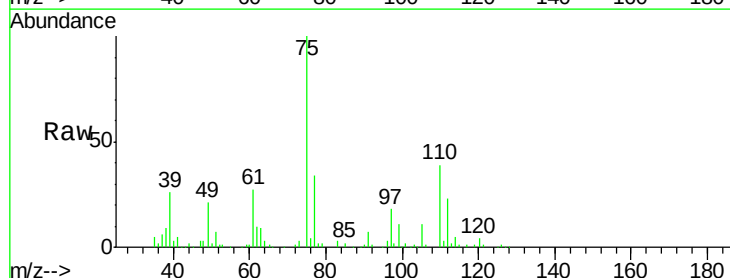
RT: 11.79 min Scan# 1132

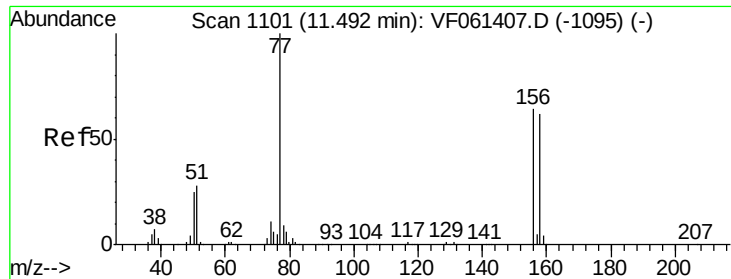
Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion:	75	Resp:	76227
Ion Ratio		Lower	Upper
75	100		
77	33.8	16.1	48.3





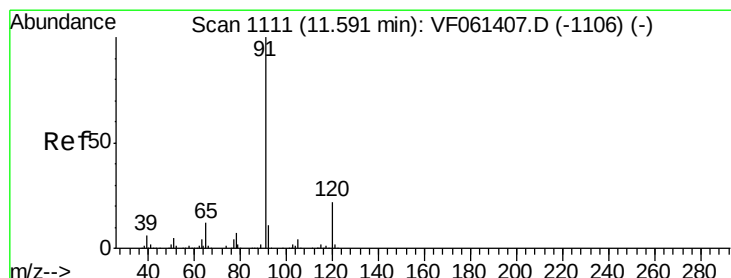
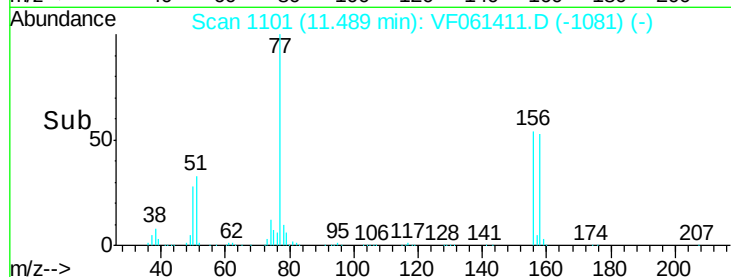
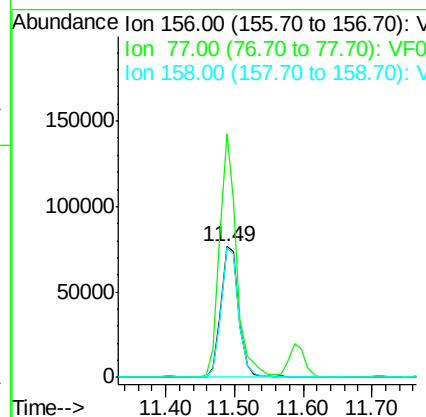
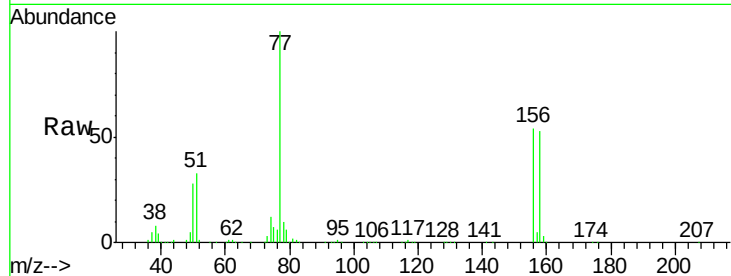
#77
Bromobenzene
Concen: 54.750 ug/l
RT: 11.49 min Scan# 1101
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	186.4		78.3	234.9	
158	98.8		48.9	146.7	

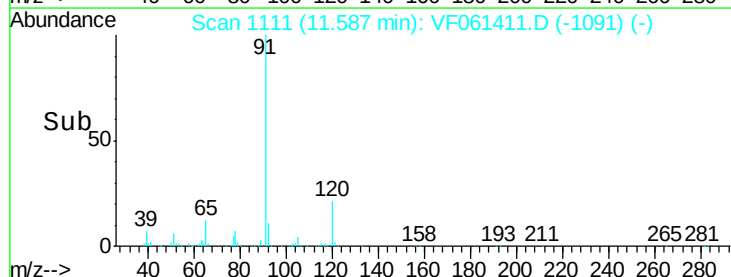
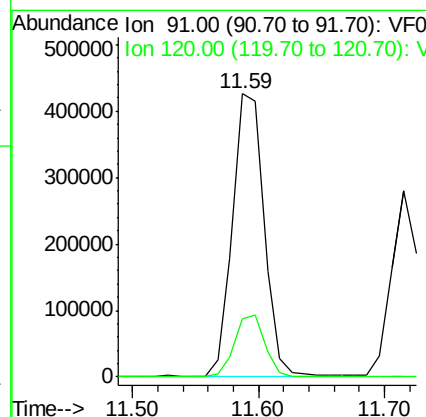
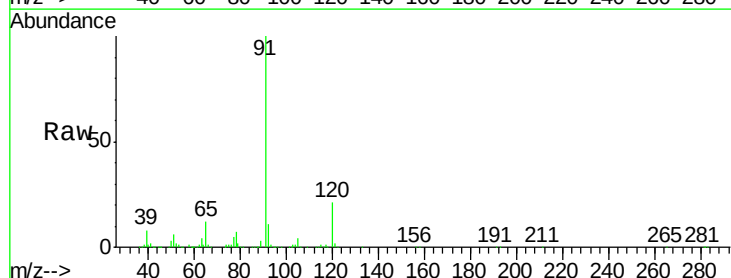
Manual Integrations
APPROVED

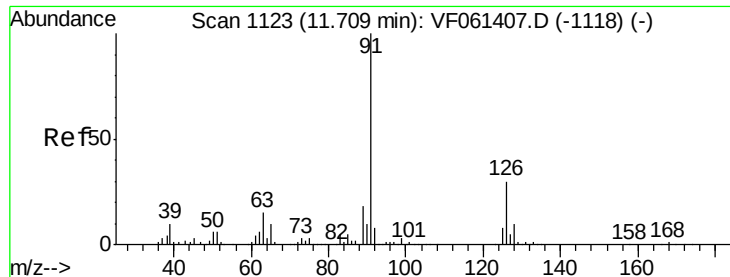
apatel
1/16/2019 4:06:13 PM



#78
n-propylbenzene
Concen: 50.561 ug/l
RT: 11.59 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	20.7		10.9	32.6	





#79

2-Chlorotoluene

Concen: 51.607 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion: 91 Resp: 428948

Ion Ratio Lower Upper

91 100

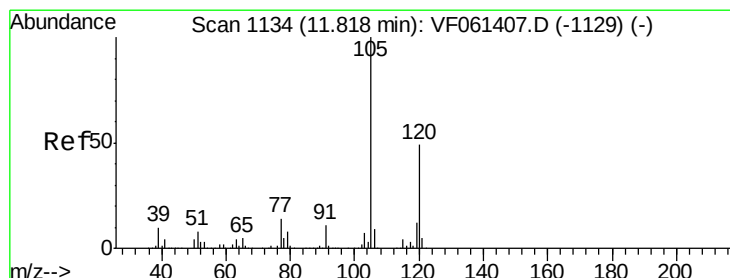
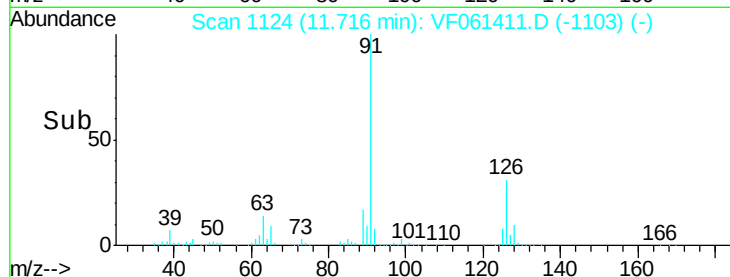
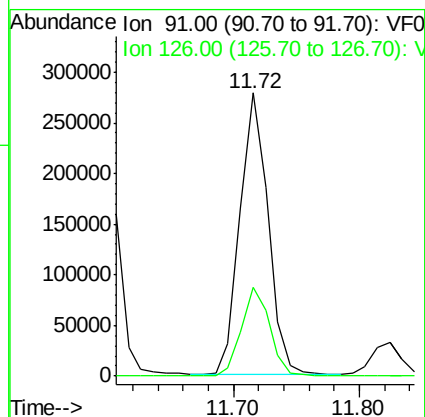
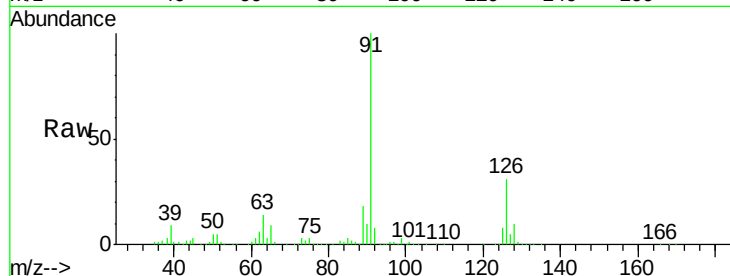
126 31.3 15.0 45.1

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



#80

1,3,5-Trimethylbenzene

Concen: 51.620 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VF061411.D

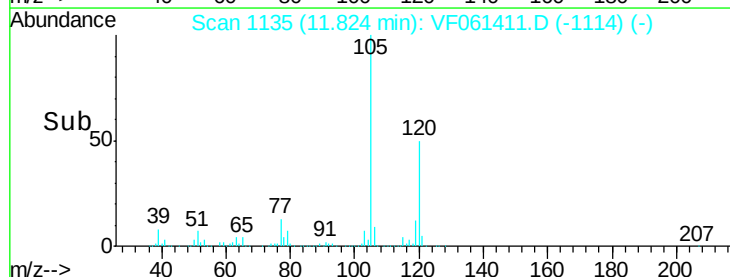
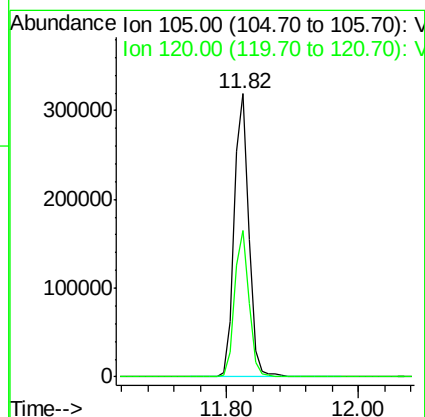
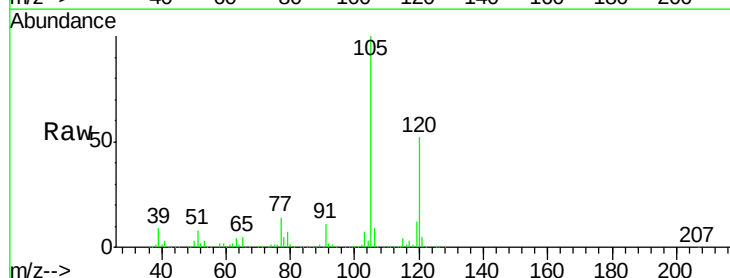
Acq: 15 Jan 2019 17:50

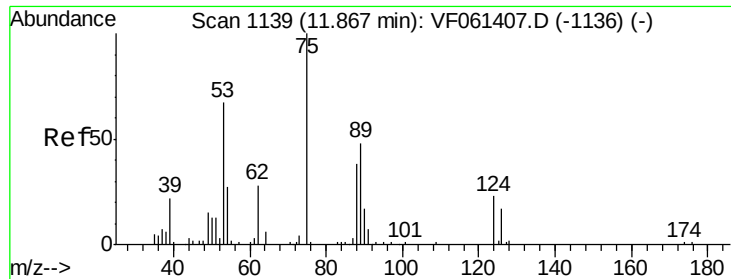
Tgt Ion: 105 Resp: 499043

Ion Ratio Lower Upper

105 100

120 51.6 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 48.131 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

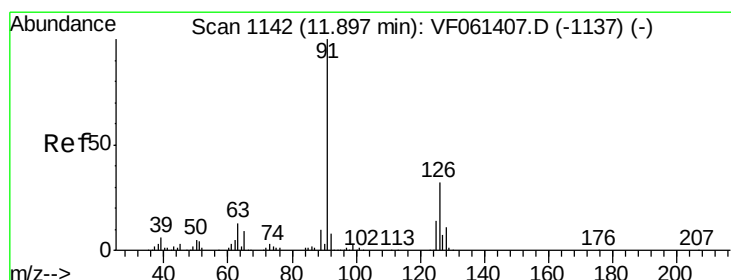
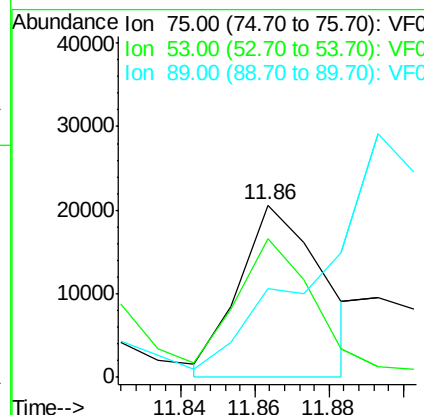
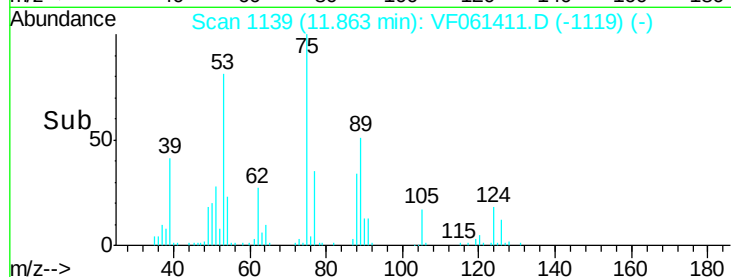
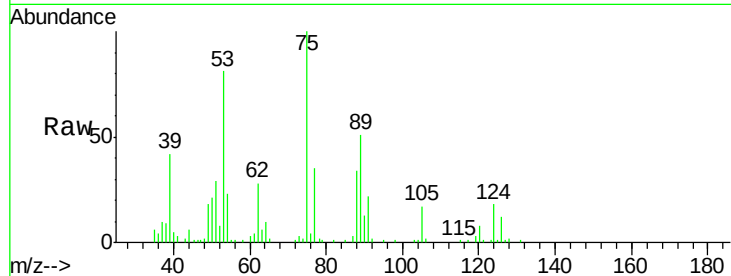
ClientSampleId :

ICVVF011519

Tot Ion:	75	Resp:	32085
Ion	Ratio	Lower	Upper
75	100		
53	80.8	57.8	86.6
89	51.4	40.7	61.1

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#82

4-Chlorotoluene

Concen: 51.158 ug/l

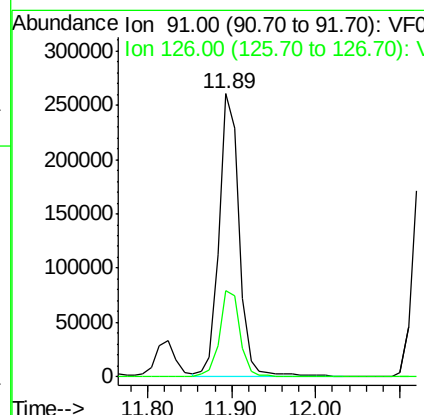
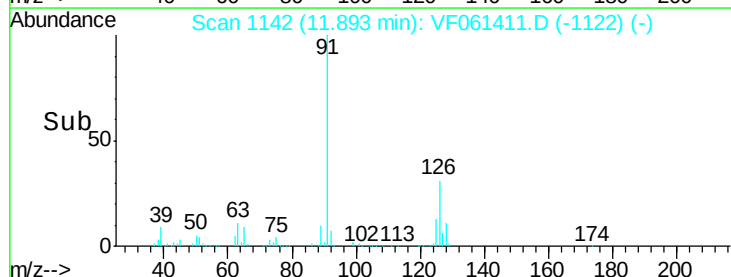
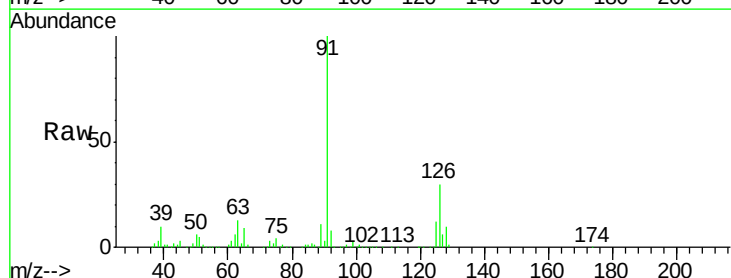
RT: 11.89 min Scan# 1142

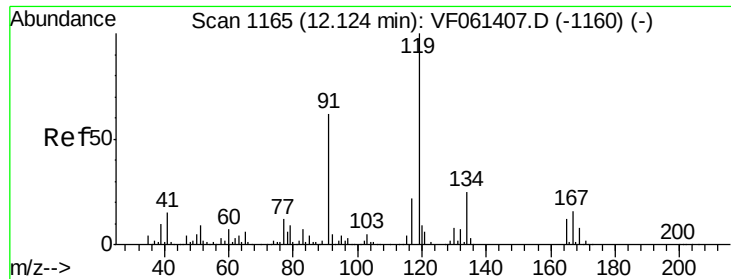
Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion:	91	Resp:	429087
Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.0	47.9





#83

tert-Butylbenzene

Concen: 53.399 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

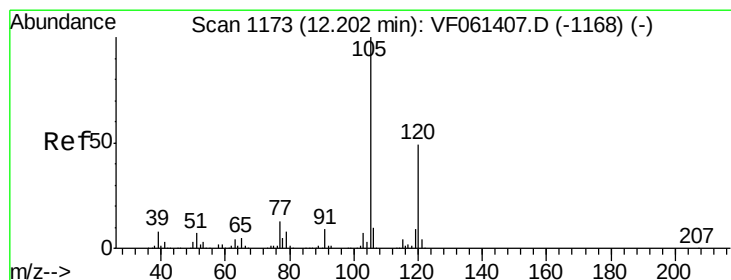
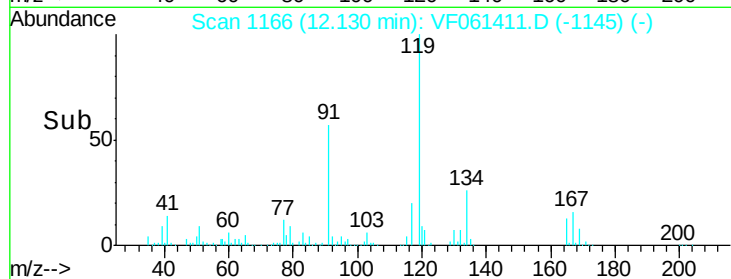
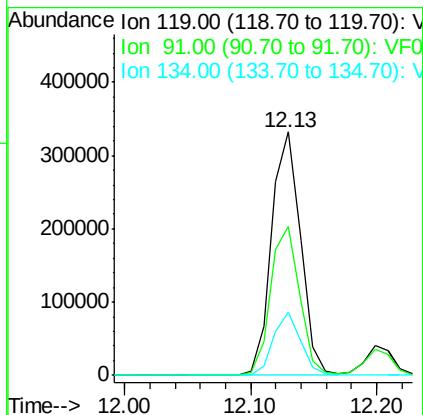
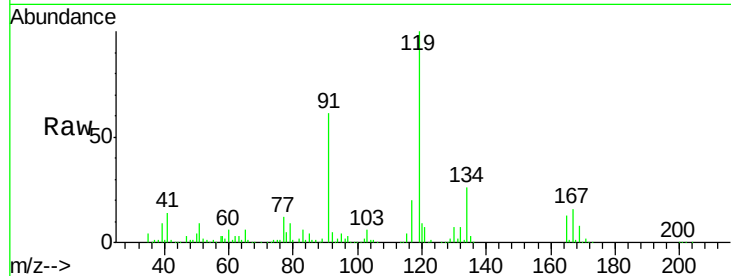
ClientSampleId :

ICVVF011519

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.4	31.3	93.8
134	26.1	12.4	37.0

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#84

1,2,4-Trimethylbenzene

Concen: 50.867 ug/l

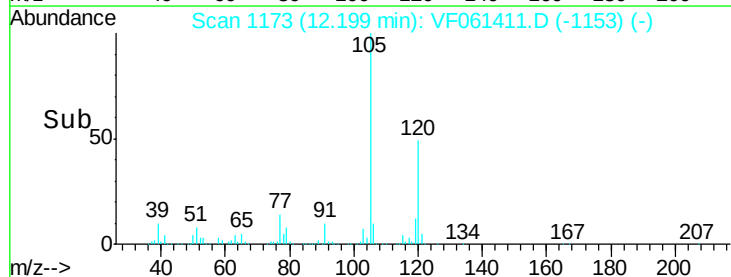
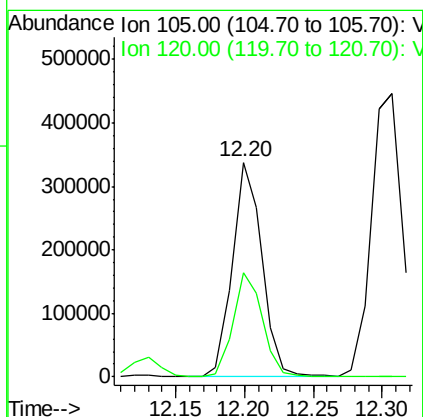
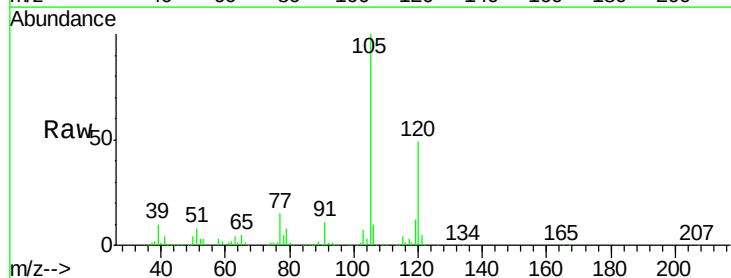
RT: 12.20 min Scan# 1173

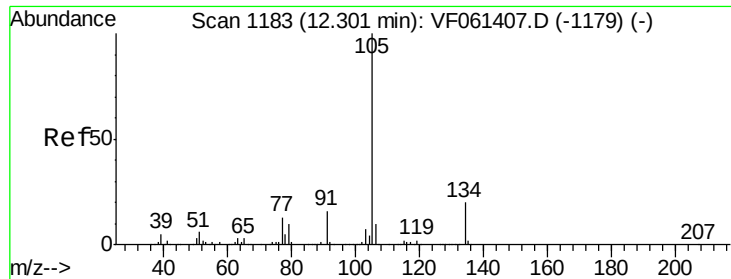
Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.9	74.6





#85

sec-Butylbenzene

Concen: 52.062 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

Instrument :

MSVOA_F

ClientSampleId :

ICVVF011519

Tot Ion:105 Resp: 707465

Ion Ratio Lower Upper

105 100

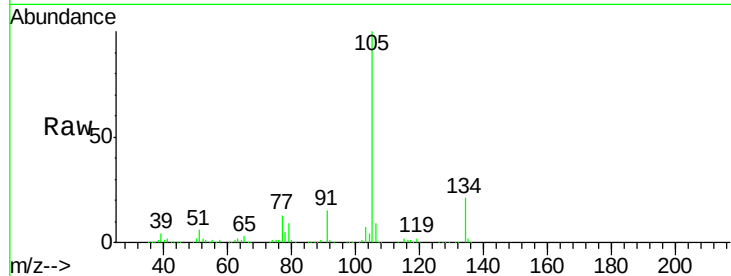
134 20.8 10.0 30.0

Manual Integrations

APPROVED

apatel

1/16/2019 4:06:13 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

500000

400000

300000

200000

100000

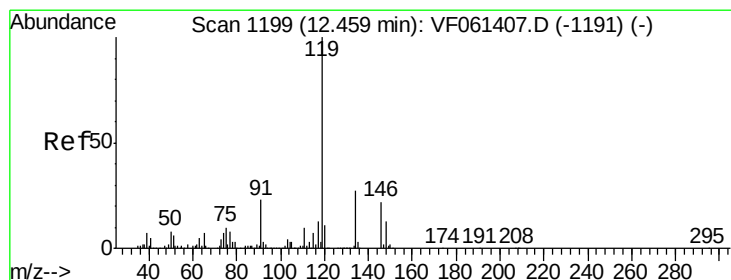
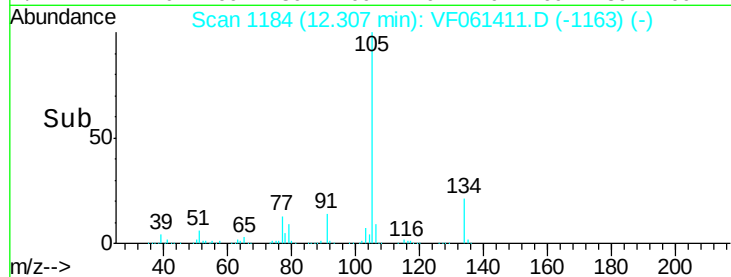
0

12.20

12.30

12.40

Time-->



#86

p-Isopropyltoluene

Concen: 52.029 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF061411.D

Acq: 15 Jan 2019 17:50

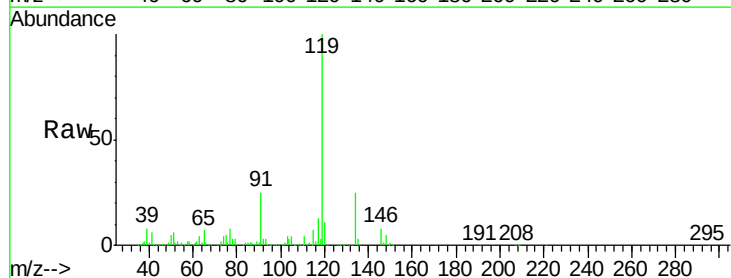
Tgt Ion:119 Resp: 580382

Ion Ratio Lower Upper

119 100

134 25.4 13.4 40.2

91 24.9 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

500000

400000

300000

200000

100000

0

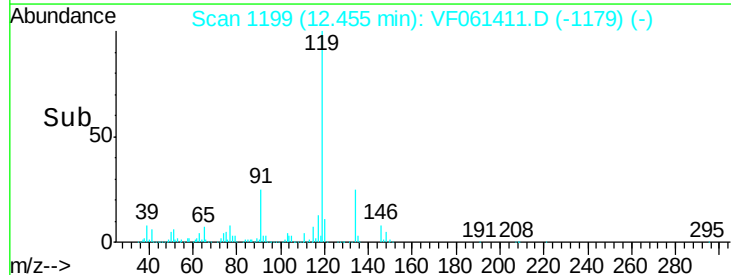
12.30

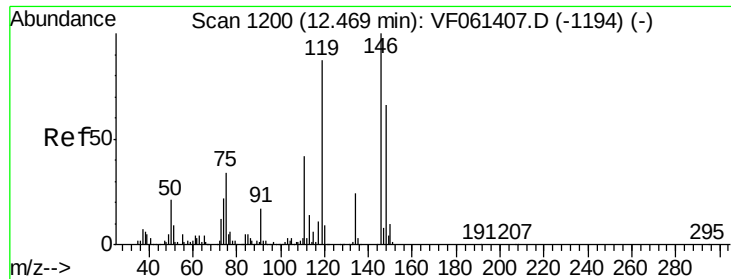
12.40

12.50

12.60

Time-->





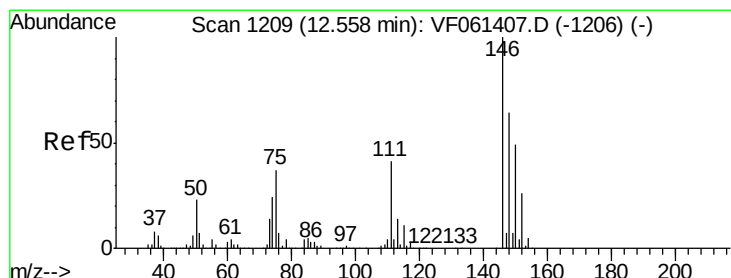
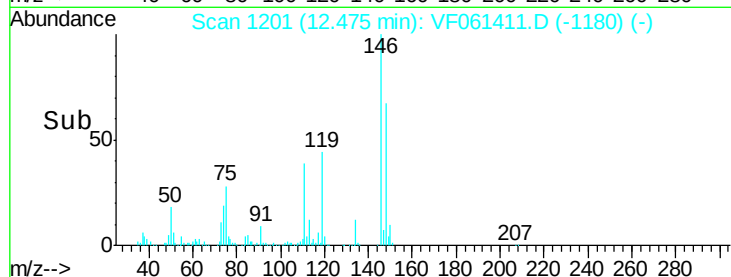
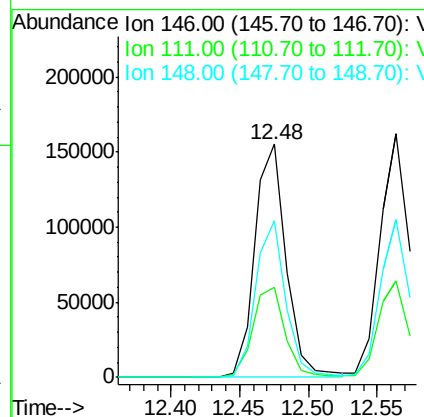
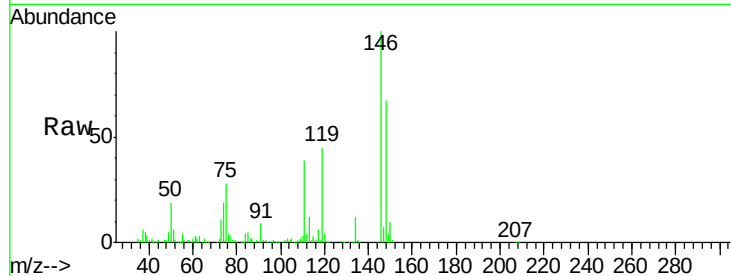
#87
 1,3-Dichlorobenzene
 Concen: 49.206 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVV011519

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	21.1	63.4
148	67.3	32.9	98.6

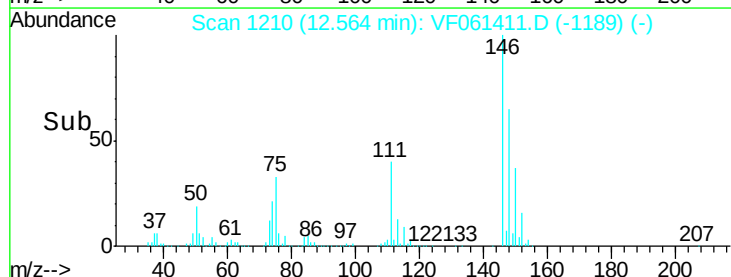
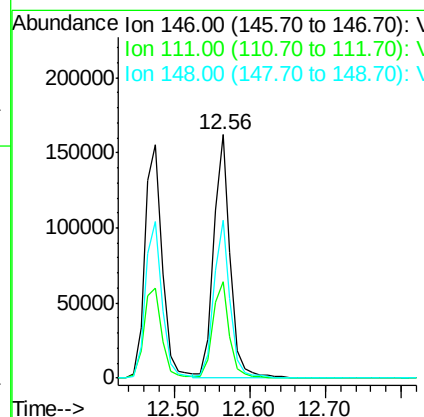
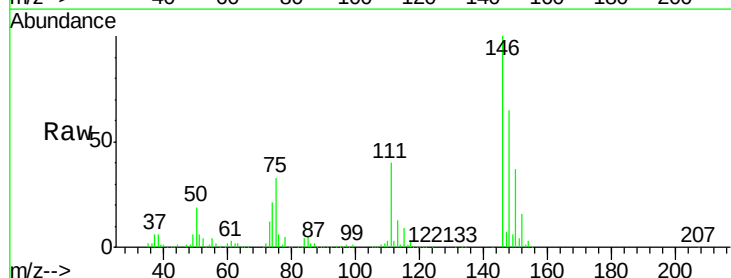
Manual Integrations
 APPROVED

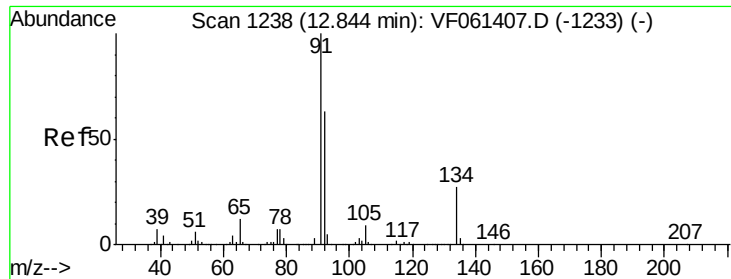
apatel
 1/16/2019 4:06:13 PM



#88
 1,4-Dichlorobenzene
 Concen: 51.891 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. 0.01 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.8	62.2
148	65.0	32.1	96.5





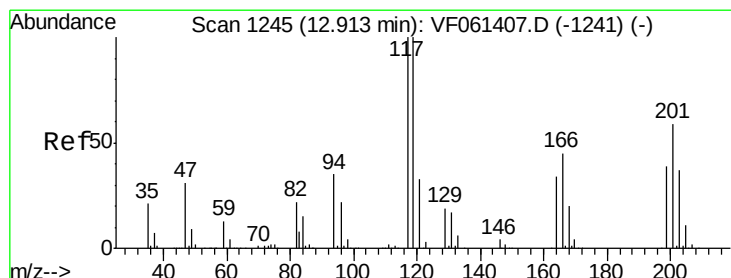
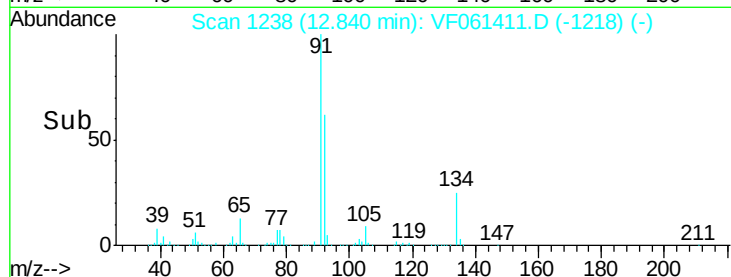
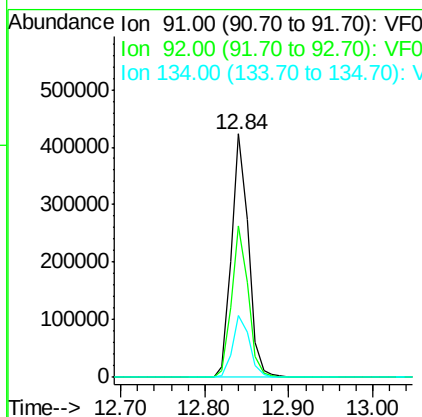
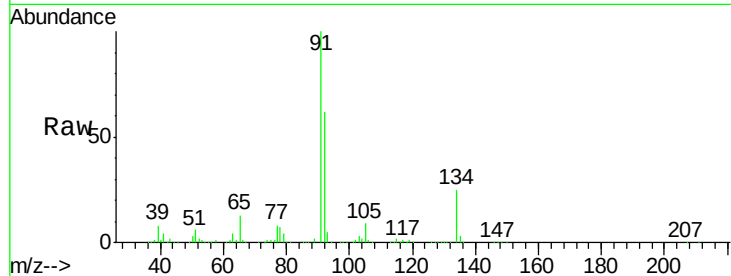
#89
n-Butylbenzene
Concen: 51.458 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ratio	Resp	Lower	Upper
91	100	591985		
92	62.4		31.6	94.7
134	25.2		13.6	40.8

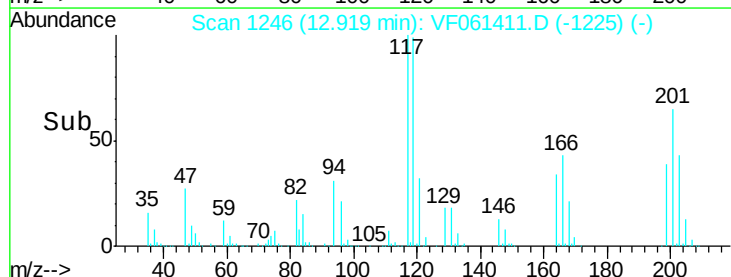
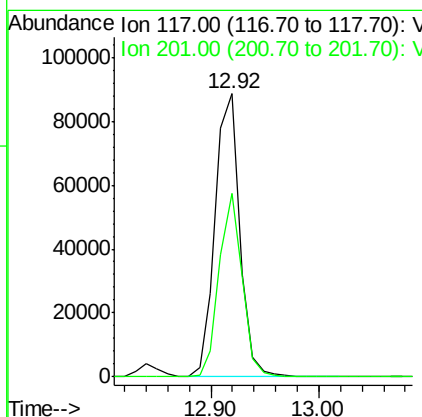
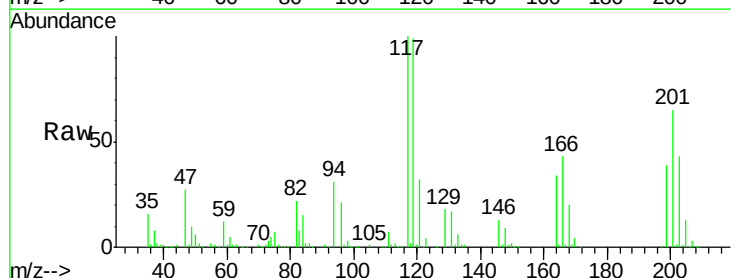
Manual Integrations
APPROVED

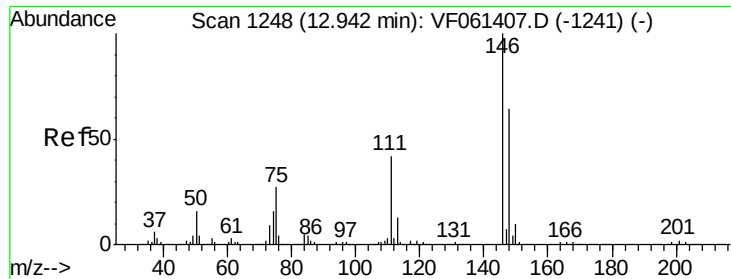
apatel
1/16/2019 4:06:13 PM



#90
Hexachloroethane
Concen: 53.503 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	140686		
201	64.8		29.3	87.8





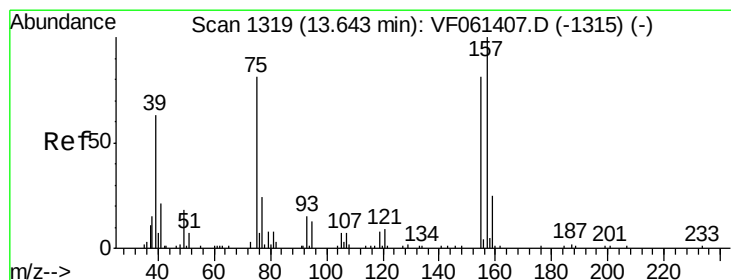
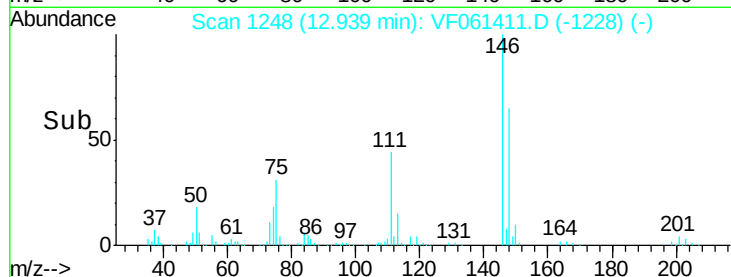
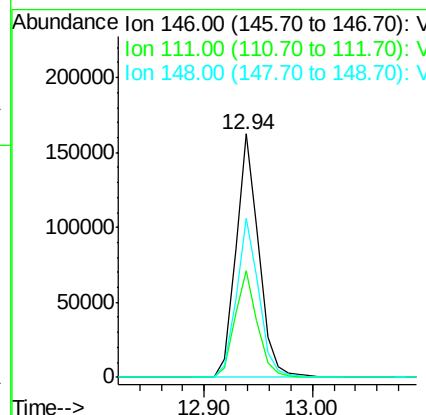
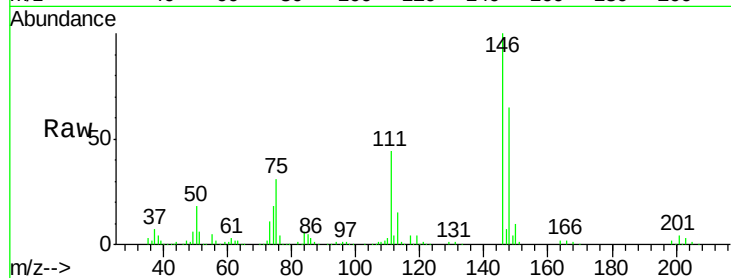
#91
 1,2-Dichlorobenzene
 Concen: 50.182 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVV011519

Tot Ion	Ratio	Resp	Lower	Upper
146	100	237503		
111	43.6	21.1	63.3	
148	65.4	31.9	95.7	

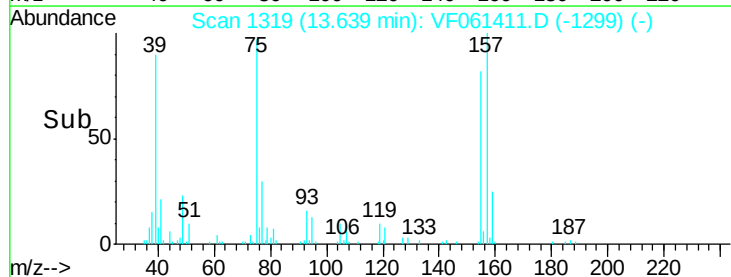
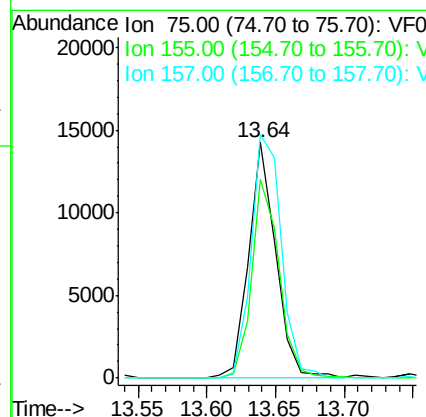
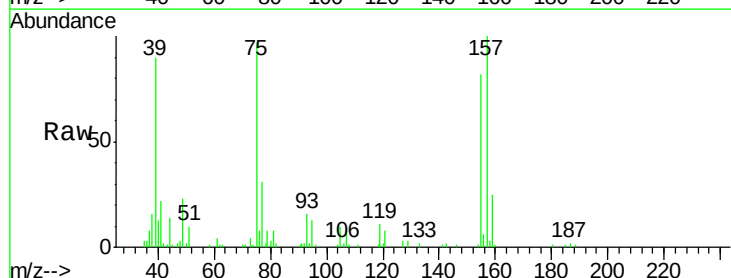
Manual Integrations
 APPROVED

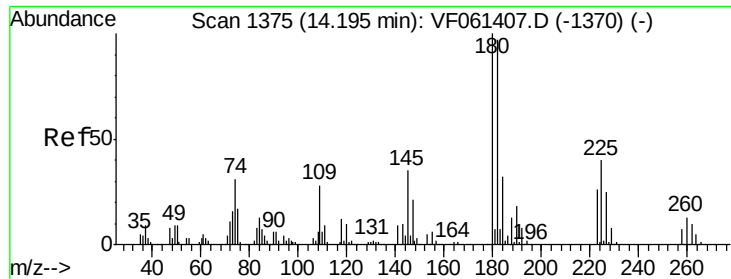
apatel
 1/16/2019 4:06:13 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.845 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	19625		
155	84.5	49.7	149.1	
157	103.3	61.4	184.1	





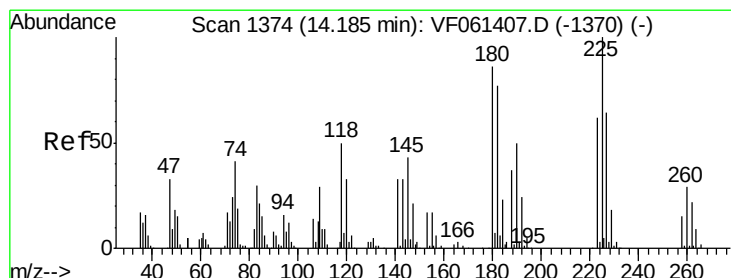
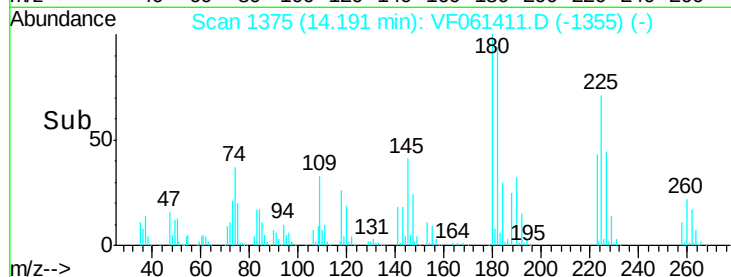
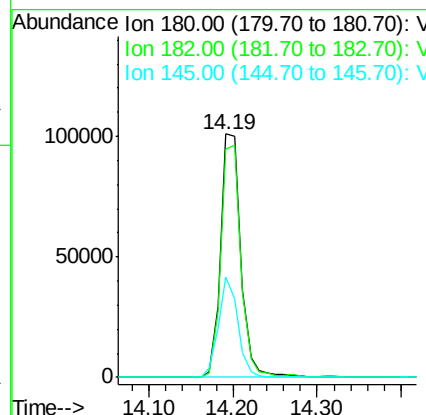
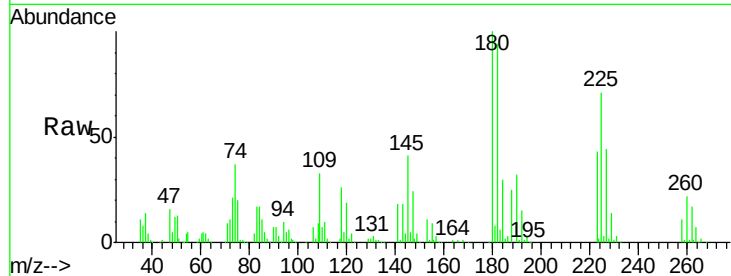
#93
 1,2,4-Trichlorobenzene
 Concen: 51.161 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVVF011519

Tot Ion	Ratio	Resp	Lower	Upper
180	100	169622		
182	93.8	48.5	145.6	
145	41.0	17.5	52.6	

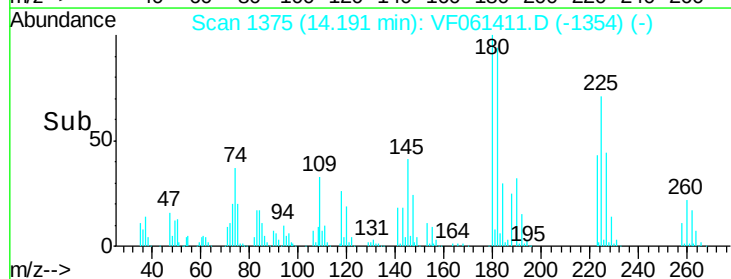
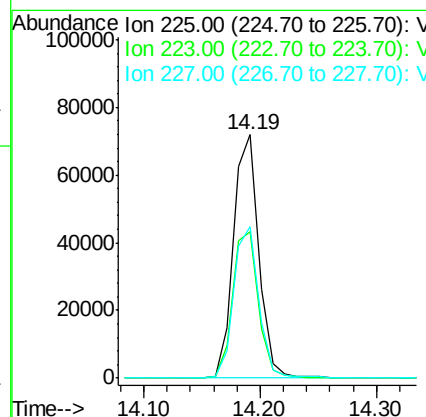
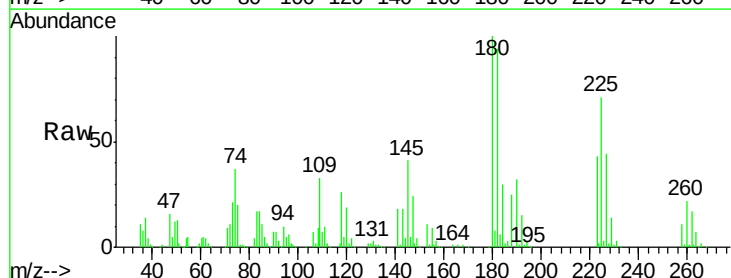
Manual Integrations
 APPROVED

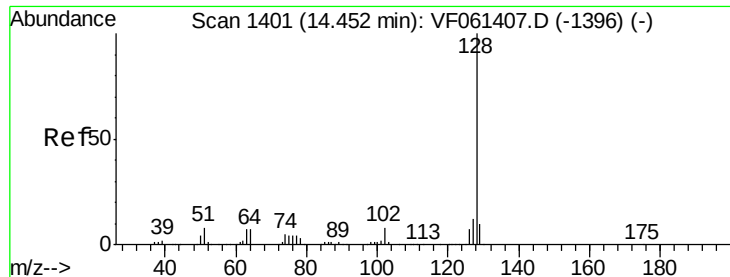
apatel
 1/16/2019 4:06:13 PM



#94
 Hexachlorobutadiene
 Concen: 52.665 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.01 min
 Lab File: VF061411.D
 Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	108348		
223	60.1	31.1	93.2	
227	62.3	32.2	96.6	





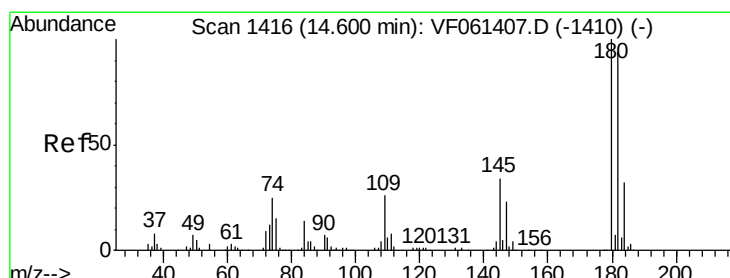
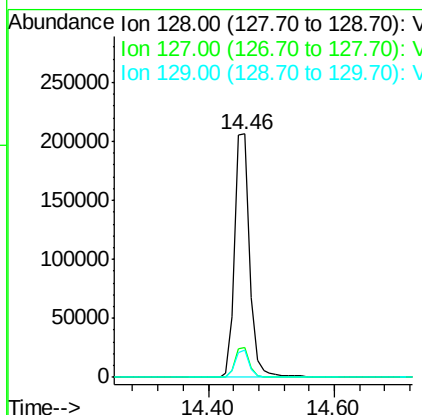
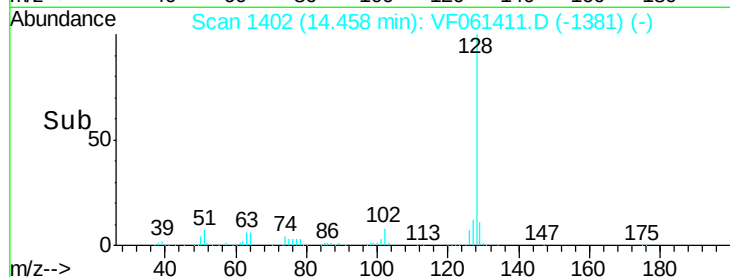
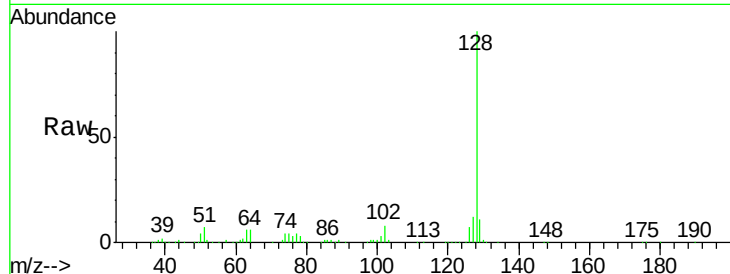
#95
Naphthalene
Concen: 53.420 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Instrument :
MSVOA_F
ClientSampleId :
ICVVF011519

Tot Ion	Ratio	Resp	Lower	Upper
128	100	336495		
127	12.1		9.5	14.3
129	11.5		8.4	12.6

Manual Integrations
APPROVED

apatel
1/16/2019 4:06:13 PM



#96
1,2,3-Trichlorobenzene
Concen: 53.962 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.00 min
Lab File: VF061411.D
Acq: 15 Jan 2019 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	165615		
182	94.9		47.0	141.2
145	35.0		17.1	51.2

