

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF102918\
 Data File : VF060535.D
 Acq On : 29 Oct 2018 18:22
 Operator : VA/AP
 Sample : VSTDIC075
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Manual Integrations
 APPROVED

apatel
 10/30/2018 2:07:26 PM

Quant Time: Oct 30 04:55:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F102918S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 30 04:16:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	310843	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	531348	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	470784	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	261541	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	348700	58.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	117.16%	
35) Dibromofluoromethane	4.31	113	334961	54.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.92%	
50) Toluene-d8	7.72	98	872110	68.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	136.12%	
62) 4-Bromofluorobenzene	11.52	95	396502	57.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.36%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	373969	46.669	ug/l	95
3) Chloromethane	1.14	50	217372	56.322	ug/l	91
4) Vinyl Chloride	1.19	62	246348	56.376	ug/l	99
5) Bromomethane	1.37	94	193793	45.239	ug/l	98
6) Chloroethane	1.43	64	126268	47.732	ug/l	97
7) Trichlorofluoromethane	1.55	101	596410	44.285	ug/l	96
8) Diethyl Ether	1.70	74	74491	56.913	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.90	101	276477	47.546	ug/l	95
10) Methyl Iodide	1.97	142	448850	53.879	ug/l	97
11) Tert butyl alcohol	2.69	59	71676	229.645	ug/l	95
12) 1,1-Dichloroethene	1.86	96	226718	53.630	ug/l	94
13) Acrolein	2.10	56	54352	210.343	ug/l	94
14) Allyl chloride	2.20	41	366200	53.977	ug/l	92
15) Acrylonitrile	3.08	53	149551	300.400	ug/l	96
16) Acetone	2.34	43	304389	218.346	ug/l	99
17) Carbon Disulfide	1.90	76	641454	54.244	ug/l #	94
18) Methyl Acetate	2.45	43	92880	47.393	ug/l	97
19) Methyl tert-butyl Ether	2.54	73	524182	49.850	ug/l	98
20) Methylene Chloride	2.33	84	207765m	48.690	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	232539	56.659	ug/l	98
22) Diisopropyl ether	2.94	45	684449	56.513	ug/l	98
23) Vinyl Acetate	3.34	43	1355423	341.958	ug/l	99
24) 1,1-Dichloroethane	3.01	63	479642	52.684	ug/l	100
25) 2-Butanone	4.52	43	389964	348.598	ug/l	96
26) 2,2-Dichloropropane	3.77	77	308571	50.952	ug/l	100
27) cis-1,2-Dichloroethene	3.65	96	303992	74.528	ug/l	98
28) Bromochloromethane	3.90	49	177231	62.692	ug/l	90
29) Tetrahydrofuran	4.26	42	138362	315.886	ug/l	98
30) Chloroform	4.05	83	655587	60.897	ug/l	96
31) Cyclohexane	3.87	56	369978	76.388	ug/l	99
32) 1,1,1-Trichloroethane	4.29	97	546456	55.893	ug/l	97
36) 1,1-Dichloropropene	4.47	75	440588	57.161	ug/l	98
37) Ethyl Acetate	4.30	43	133290	52.425	ug/l	100
38) Carbon Tetrachloride	4.18	117	569707m	50.773	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF102918\
 Data File : VF060535.D
 Acq On : 29 Oct 2018 18:22
 Operator : VA/AP
 Sample : VSTDIC075
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC075

Manual Integrations
 APPROVED

apatel
 10/30/2018 2:07:26 PM

Quant Time: Oct 30 04:55:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F102918S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 30 04:16:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	467745	72.090	ug/l	98
40) Benzene	4.82	78	928031	70.797	ug/l	97
41) Methacrylonitrile	4.93	41	85726	65.500	ug/l #	91
42) 1,2-Dichloroethane	5.12	62	436880	54.620	ug/l	95
43) Isopropyl Acetate	7.12	43	183583	66.968	ug/l #	91
44) Trichloroethene	5.69	130	292038	65.000	ug/l	97
45) 1,2-Dichloropropane	6.41	63	233393	71.053	ug/l	96
46) Dibromomethane	6.26	93	191075	63.298	ug/l	98
47) Bromodichloromethane	6.55	83	476012	57.090	ug/l	96
48) Methyl methacrylate	6.88	41	129048	63.575	ug/l	95
49) 1,4-Dioxane	6.87	88	22518	1259.489	ug/l	96
51) 4-Methyl-2-Pentanone	8.42	43	587898	281.734	ug/l	97
52) Toluene	7.79	92	624612	72.369	ug/l	94
53) t-1,3-Dichloropropene	8.44	75	339486	54.429	ug/l	97
54) cis-1,3-Dichloropropene	7.47	75	426684	65.339	ug/l	98
55) 1,1,2-Trichloroethane	8.65	97	176283	65.727	ug/l	97
56) Ethyl methacrylate	8.77	69	199566	68.103	ug/l	95
57) 1,3-Dichloropropane	9.01	76	316763	66.727	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.79	63	108334	286.473	ug/l	100
59) 2-Hexanone	9.64	43	431007	277.315	ug/l	93
60) Dibromochloromethane	8.87	129	290082	58.235	ug/l	97
61) 1,2-Dibromoethane	9.15	107	200422	63.199	ug/l	93
64) Tetrachloroethene	8.32	164	270422	66.686	ug/l	96
65) Chlorobenzene	9.95	112	665412	66.613	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.08	131	284494	57.022	ug/l	95
67) Ethyl Benzene	10.05	91	1237446	61.583	ug/l	96
68) m/p-Xylenes	10.28	106	833697	131.050	ug/l	91
69) o-Xylene	10.84	106	466501	64.720	ug/l	97
70) Styrene	10.91	104	649557	64.446	ug/l	98
71) Bromoform	10.90	173	149297	55.553	ug/l #	92
73) Isopropylbenzene	11.24	105	1401680	67.488	ug/l	97
74) N-amyl acetate	11.47	43	283581	75.202	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.79	83	226418	73.474	ug/l	96
76) 1,2,3-Trichloropropane	11.90	75	171138	65.359	ug/l	87
77) Bromobenzene	11.60	156	312096	71.436	ug/l	94
78) n-propylbenzene	11.70	91	1610511	66.498	ug/l	97
79) 2-Chlorotoluene	11.82	91	978555	66.688	ug/l	94
80) 1,3,5-Trimethylbenzene	11.92	105	1145318	63.002	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.97	75	87648m	79.699	ug/l	
82) 4-Chlorotoluene	11.99	91	1017878	65.522	ug/l	97
83) tert-Butylbenzene	12.22	119	1185911	65.455	ug/l	100
84) 1,2,4-Trimethylbenzene	12.29	105	1177850	65.449	ug/l	99
85) sec-Butylbenzene	12.40	105	1546118	62.893	ug/l	98
86) p-Isopropyltoluene	12.55	119	1300939	62.575	ug/l	99
87) 1,3-Dichlorobenzene	12.57	146	570563	64.522	ug/l	97
88) 1,4-Dichlorobenzene	12.66	146	586009	68.828	ug/l	97
89) n-Butylbenzene	12.92	91	1357409	61.289	ug/l	98
90) Hexachloroethane	13.00	117	354307	65.143	ug/l	87
91) 1,2-Dichlorobenzene	13.03	146	565774	66.747	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.72	75	50792	67.852	ug/l	90

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF102918\
Data File : VF060535.D
Acq On : 29 Oct 2018 18:22
Operator : VA/AP
Sample : VSTDICC075
Misc : 5.00/5mL/MSVOA F/SOIL
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC075

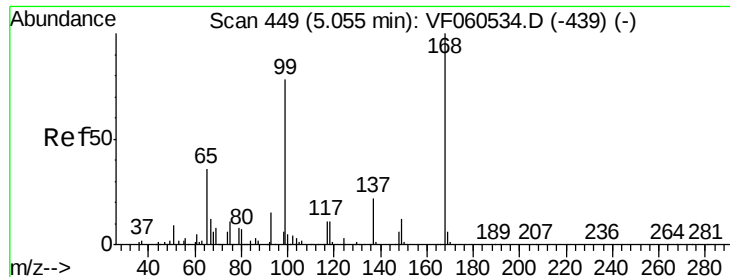
Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM

Quant Time: Oct 30 04:55:49 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F102918S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 30 04:16:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	415407	61.230	ug/l	96
94) Hexachlorobutadiene	14.26	225	307741	61.555	ug/l	99
95) Naphthalene	14.53	128	802298	73.555	ug/l	99
96) 1,2,3-Trichlorobenzene	14.68	180	418014	66.888	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 449

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:168 Resp: 310843

Ion Ratio Lower Upper

168 100

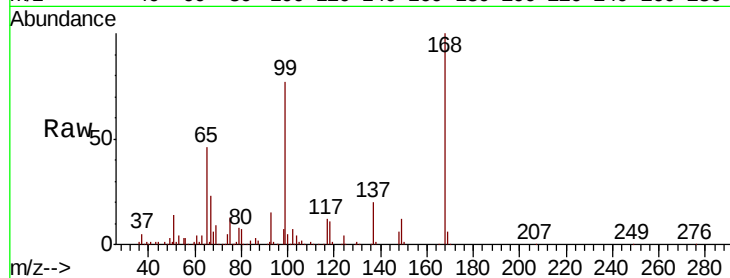
99 77.1 62.6 93.8

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

120000

100000

80000

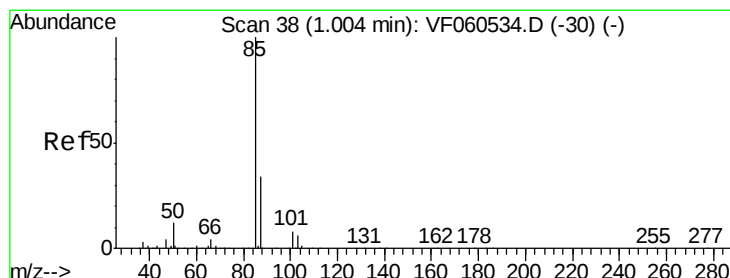
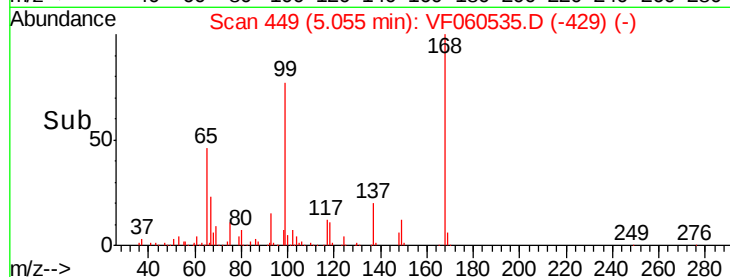
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 46.669 ug/l

RT: 1.00 min Scan# 38

Delta R.T. 0.00 min

Lab File: VF060535.D

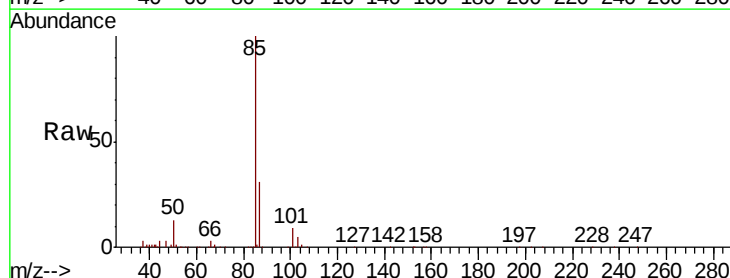
Acq: 29 Oct 2018 18:22

Tgt Ion: 85 Resp: 373969

Ion Ratio Lower Upper

85 100

87 31.1 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

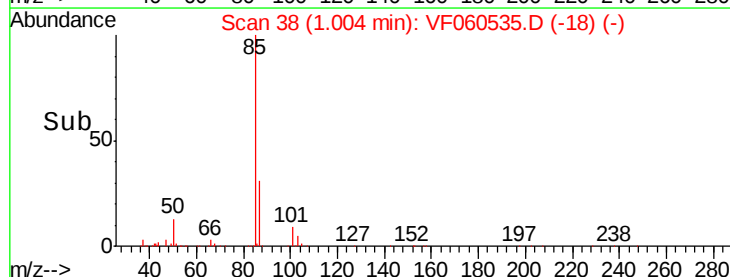
1.00

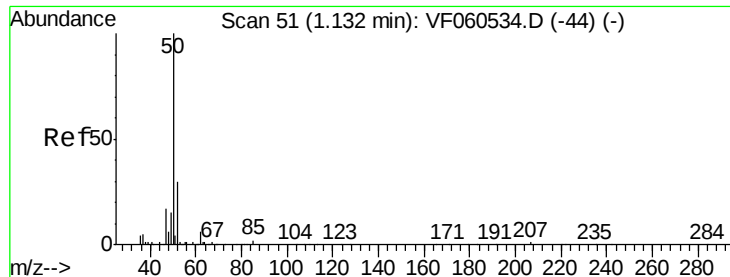
100000

50000

0

Time-->





#3

Chloromethane

Concen: 56.322 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 50 Resp: 217372

Ion Ratio Lower Upper

50 100

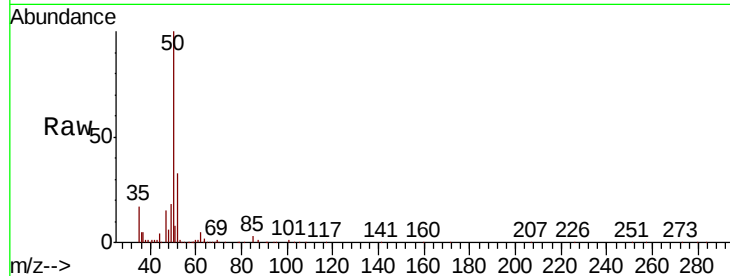
52 33.1 22.8 34.2

Manual Integrations

APPROVED

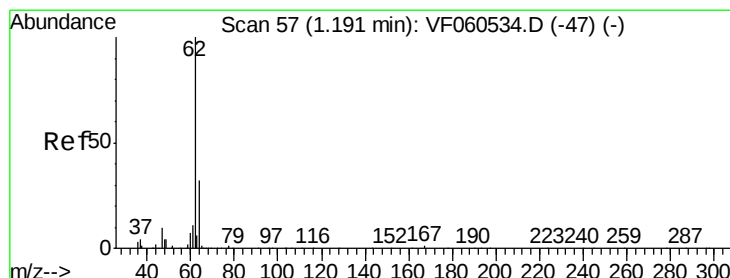
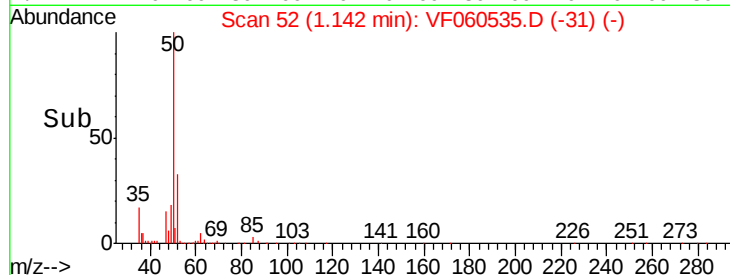
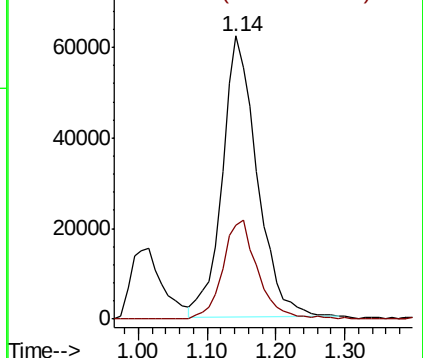
apatel

10/30/2018 2:07:26 PM



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 56.376 ug/l

RT: 1.19 min Scan# 57

Delta R.T. 0.00 min

Lab File: VF060535.D

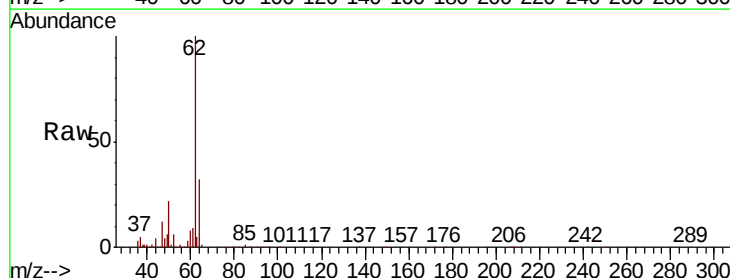
Acq: 29 Oct 2018 18:22

Tgt Ion: 62 Resp: 246348

Ion Ratio Lower Upper

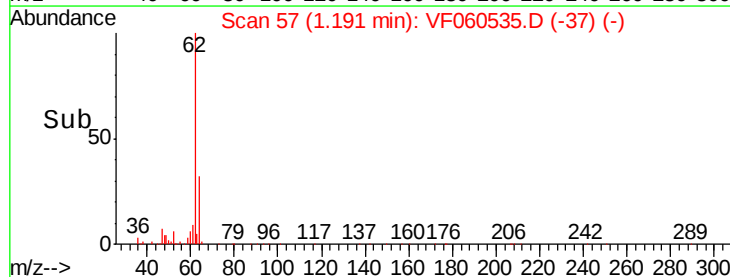
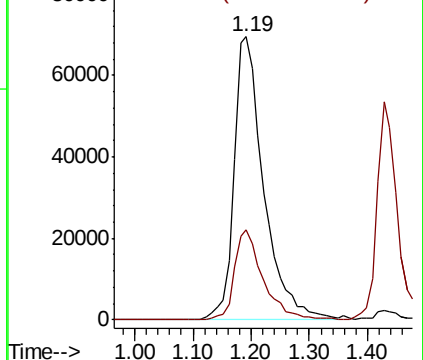
62 100

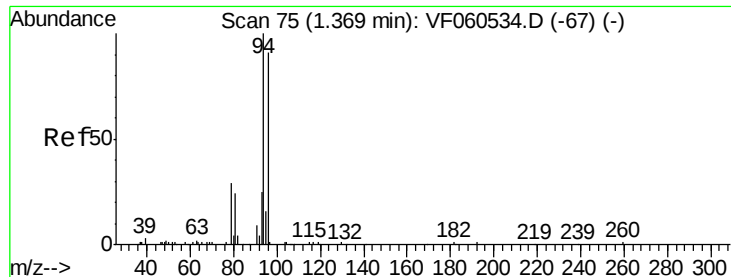
64 32.0 25.3 37.9



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 45.239 ug/l

RT: 1.37 min Scan# 75

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 94 Resp: 193793

Ion Ratio Lower Upper

94 100

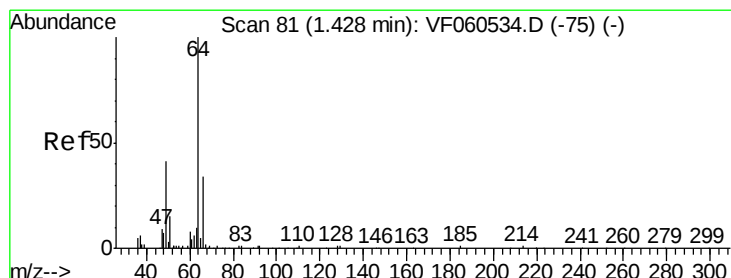
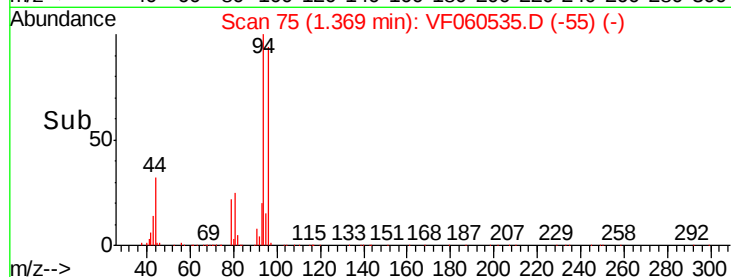
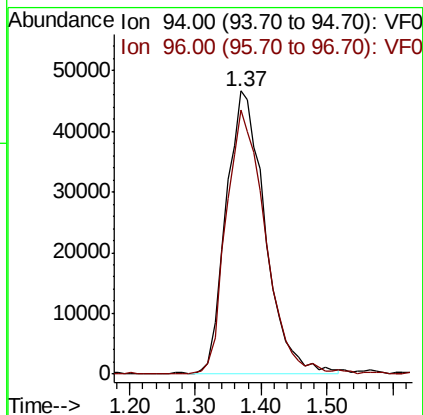
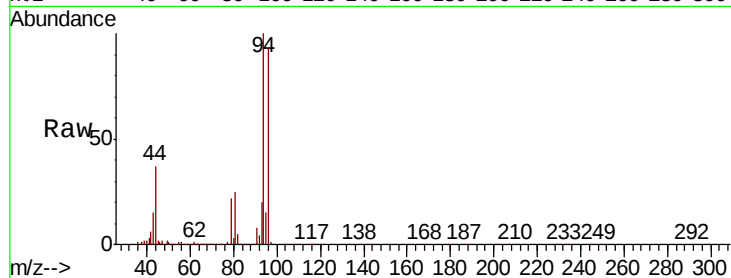
96 93.4 73.2 109.8

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



#6

Chloroethane

Concen: 47.732 ug/l

RT: 1.43 min Scan# 81

Delta R.T. 0.00 min

Lab File: VF060535.D

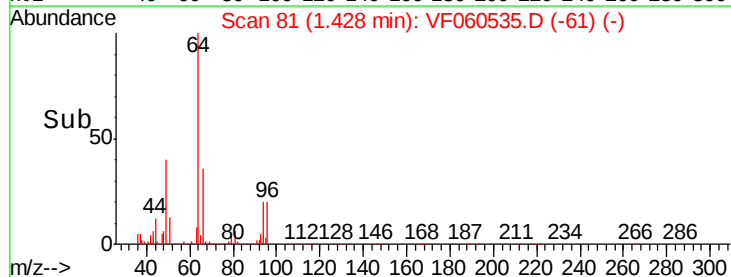
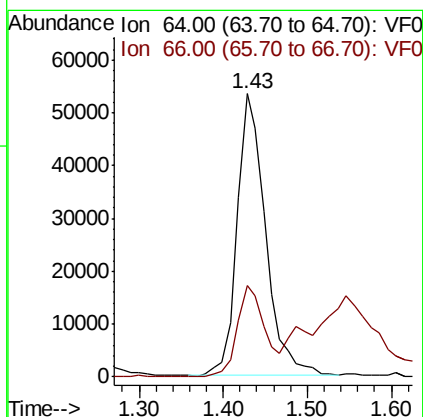
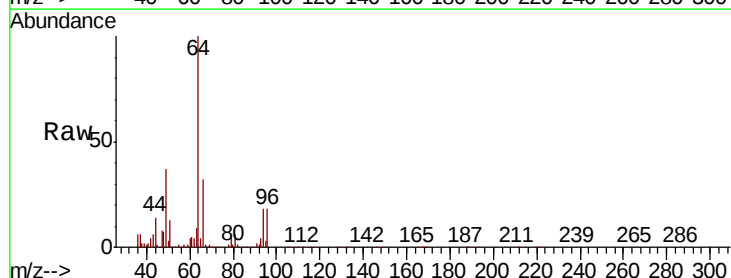
Acq: 29 Oct 2018 18:22

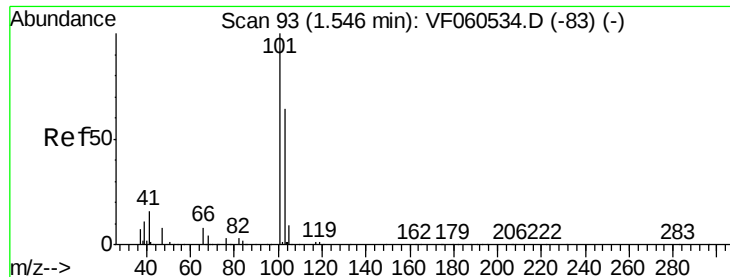
Tgt Ion: 64 Resp: 126268

Ion Ratio Lower Upper

64 100

66 32.2 27.1 40.7





#7

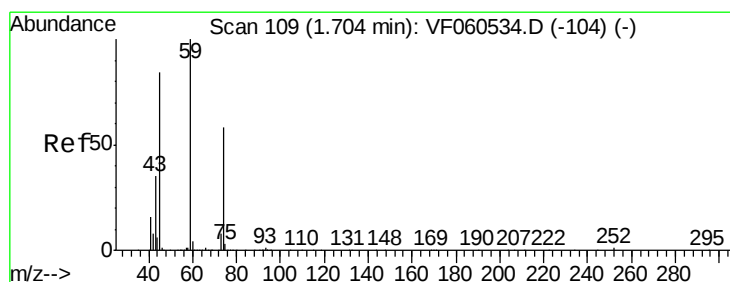
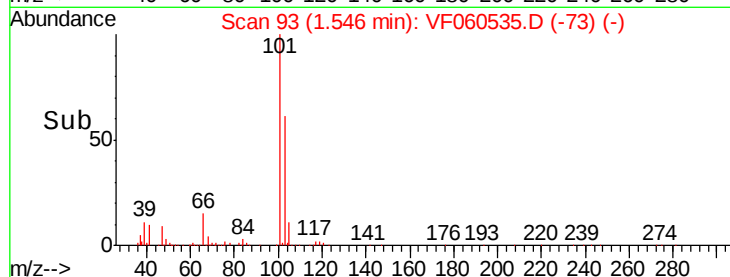
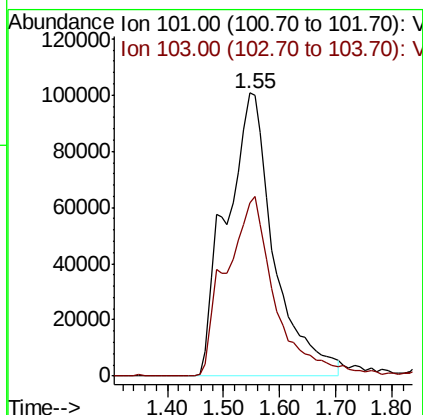
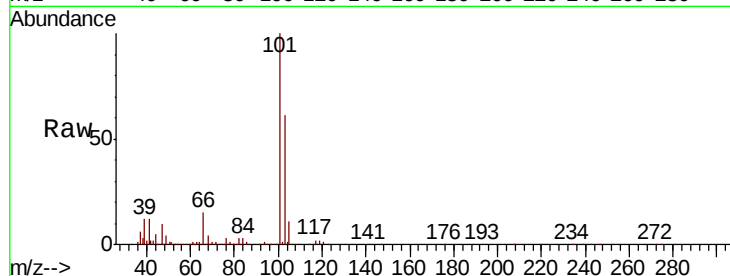
Trichlorofluoromethane
Concen: 44.285 ug/l
RT: 1.55 min Scan# 93
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.1	51.6	77.4

Manual Integrations
APPROVED

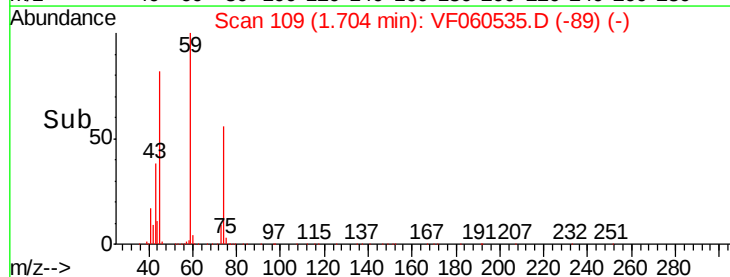
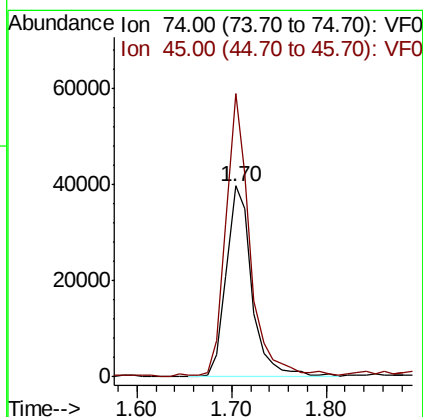
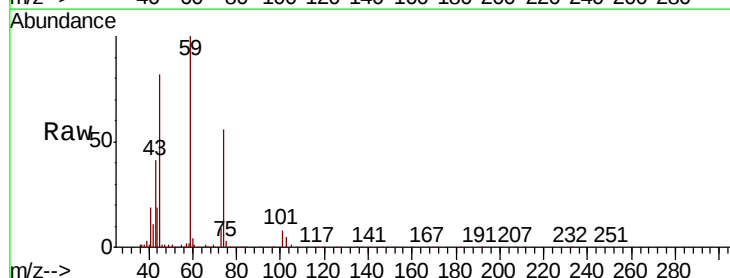
apatel
10/30/2018 2:07:26 PM

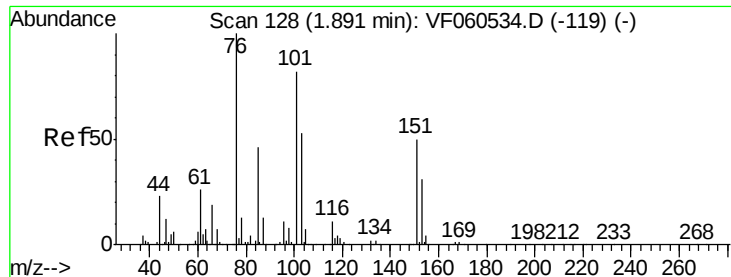


#8

Diethyl Ether
Concen: 56.913 ug/l
RT: 1.70 min Scan# 109
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
74	100		
45	148.3	72.9	218.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.546 ug/l

RT: 1.90 min Scan# 129

Delta R.T. 0.01 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

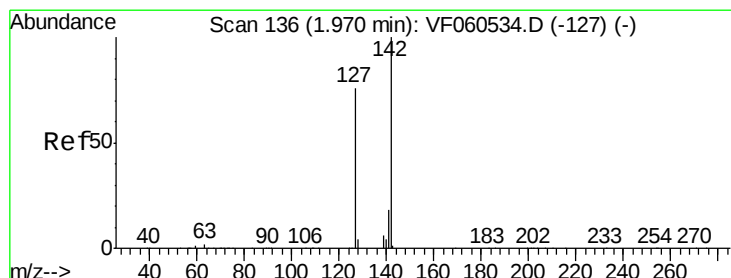
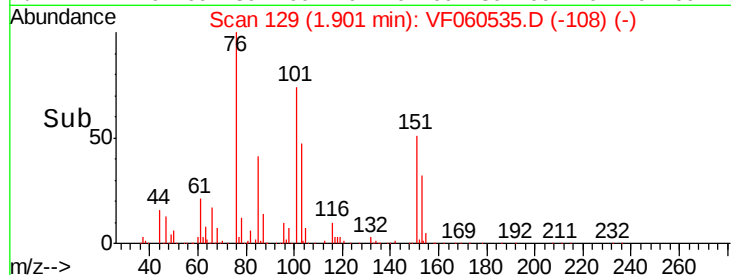
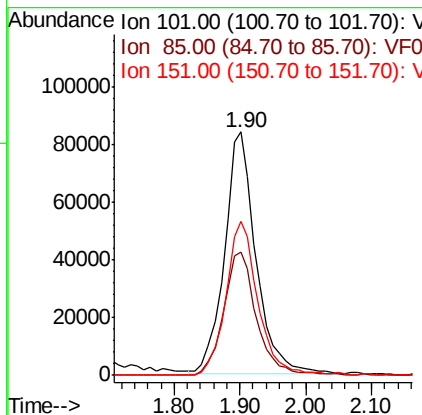
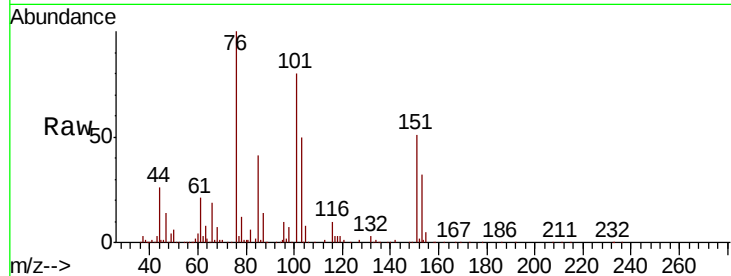
ClientSampleId :

VSTDIC075

Tot Ion:	101	Resp:	276477
Ion Ratio	Lower	Upper	
101	100		
85	50.7	44.6	67.0
151	63.5	48.4	72.6

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#10

Methyl Iodide

Concen: 53.879 ug/l

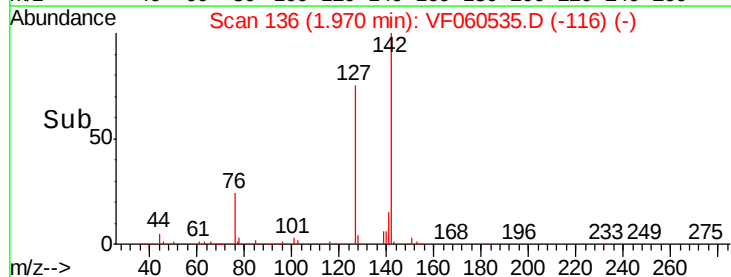
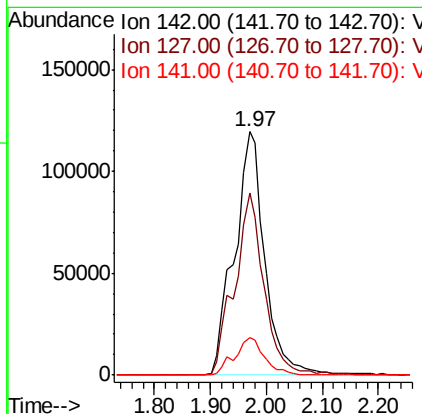
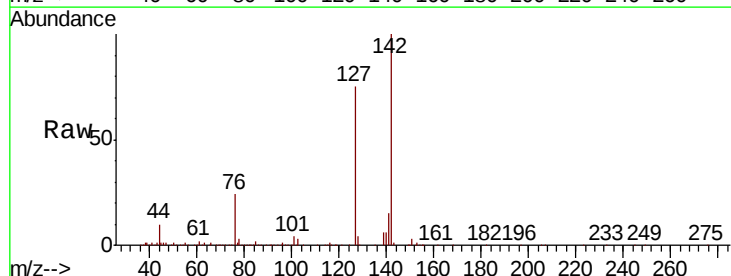
RT: 1.97 min Scan# 136

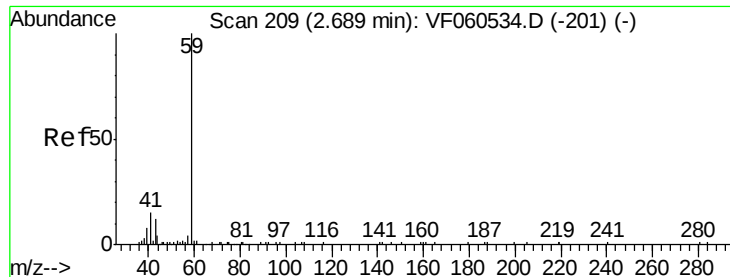
Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion:	142	Resp:	448850
Ion Ratio	Lower	Upper	
142	100		
127	74.7	61.2	91.8
141	15.2	14.0	21.0





#11

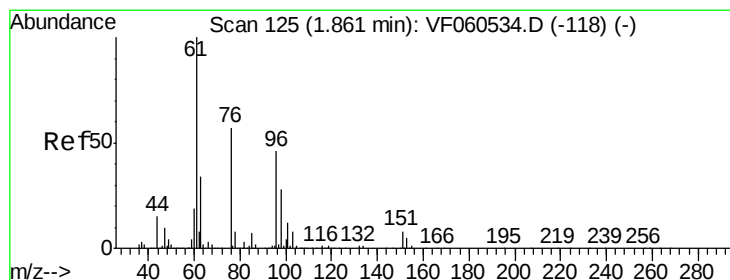
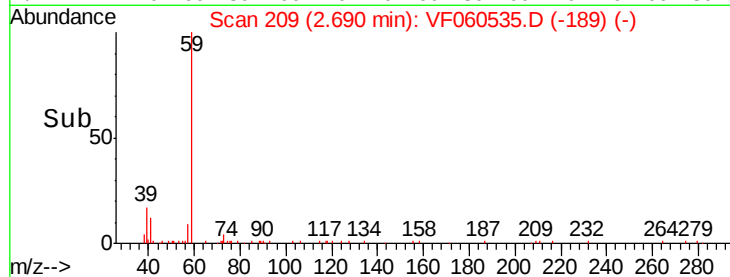
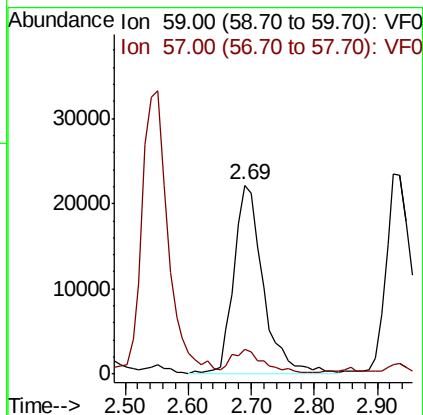
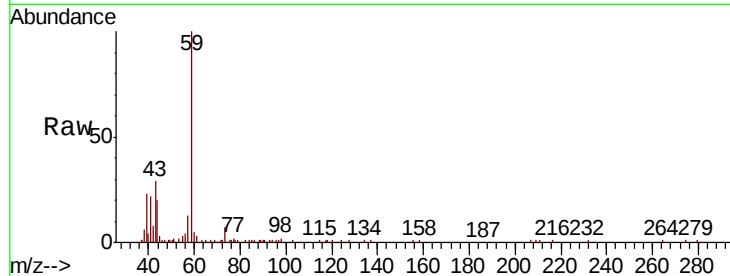
Tert butyl alcohol
Concen: 229.645 ug/l
RT: 2.69 min Scan# 209
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.0	8.9	13.3

Manual Integrations
APPROVED

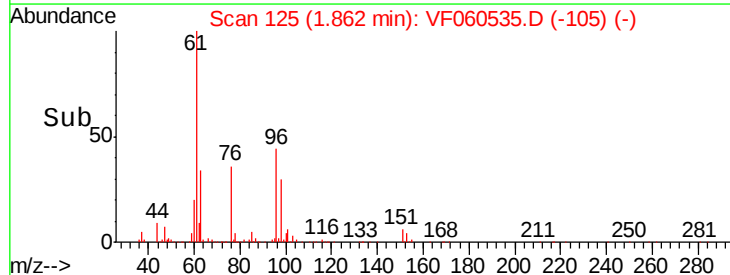
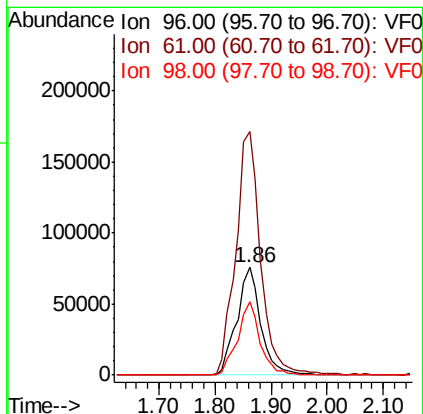
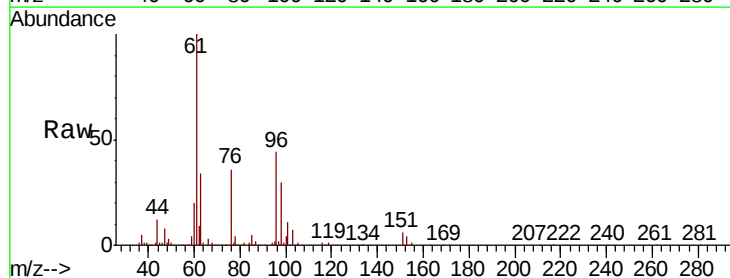
apatel
10/30/2018 2:07:26 PM

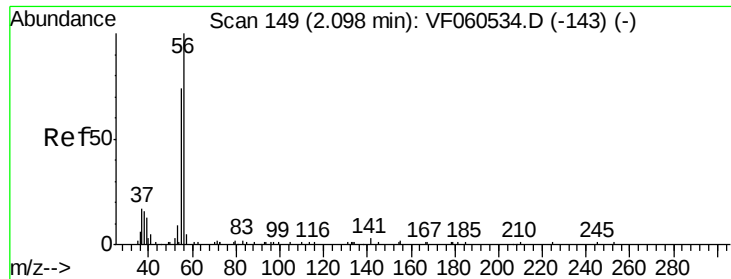


#12

1,1-Dichloroethene
Concen: 53.630 ug/l
RT: 1.86 min Scan# 125
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	226.8	175.4	263.2
98	67.9	48.9	73.3





#13

Acrolein

Concen: 210.343 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 56 Resp: 54352

Ion Ratio Lower Upper

56 100

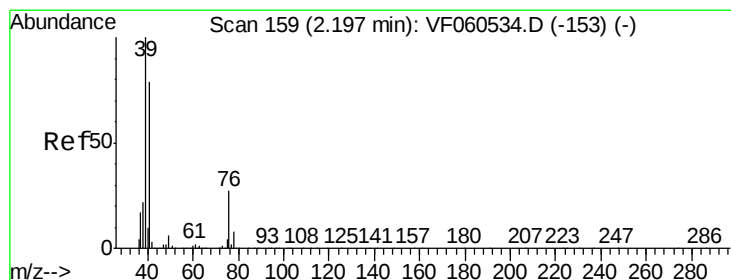
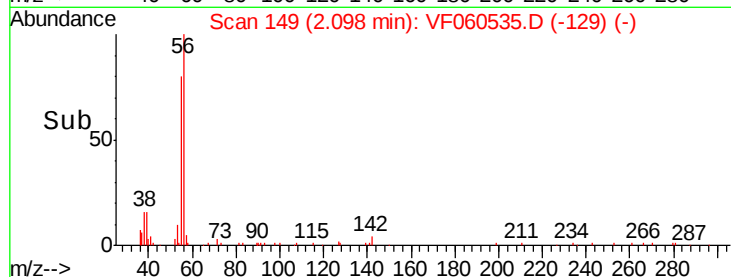
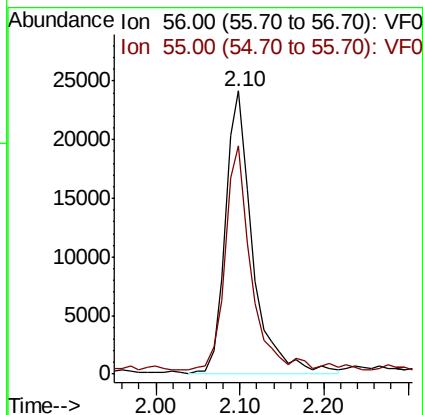
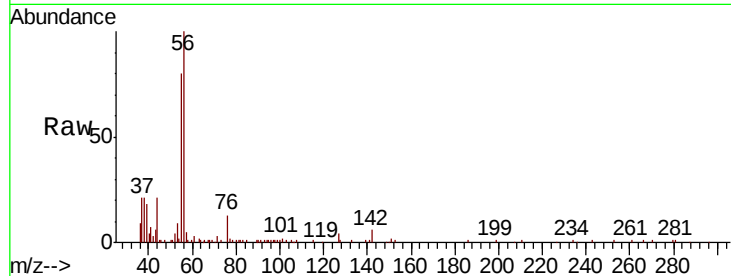
55 80.5 60.4 90.6

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



#14

Allyl chloride

Concen: 53.977 ug/l

RT: 2.20 min Scan# 159

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

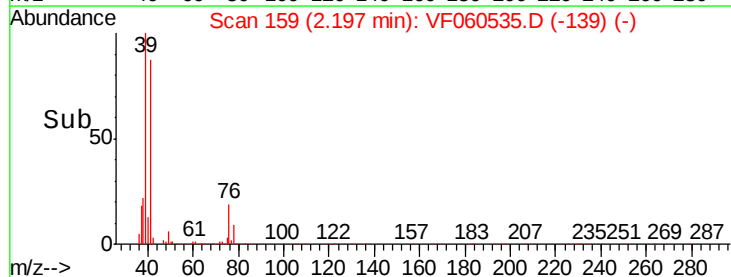
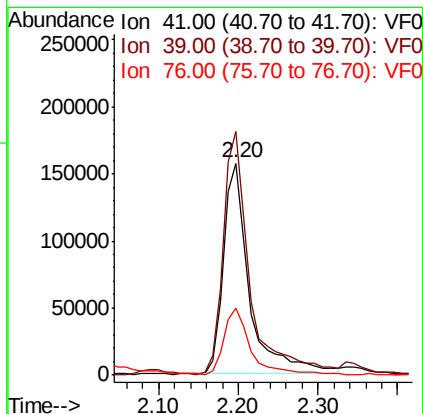
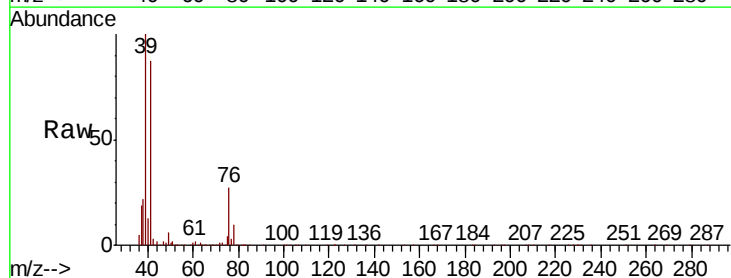
Tgt Ion: 41 Resp: 366200

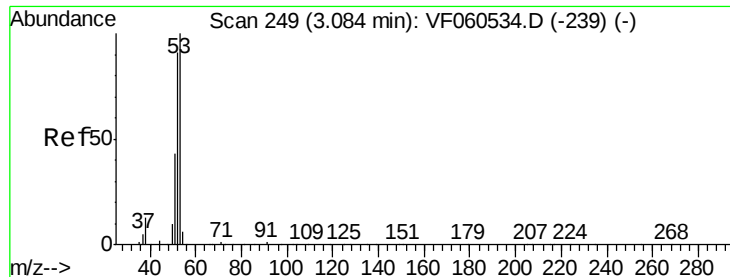
Ion Ratio Lower Upper

41 100

39 115.1 100.6 151.0

76 31.6 27.6 41.4





#15

Acrylonitrile

Concen: 300.400 ug/l

RT: 3.08 min Scan# 249

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

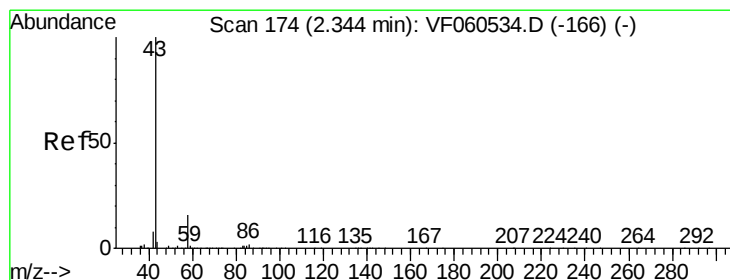
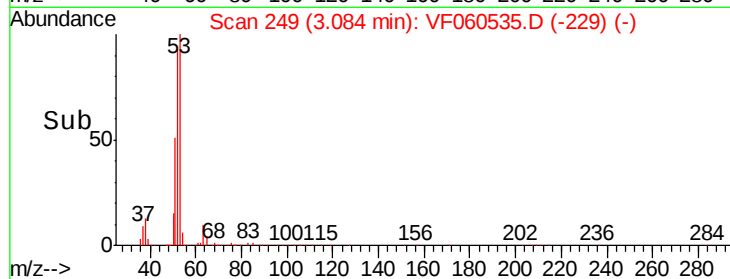
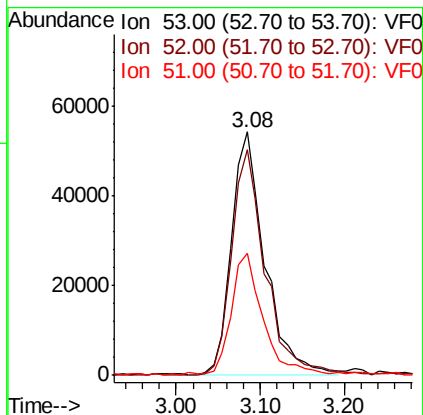
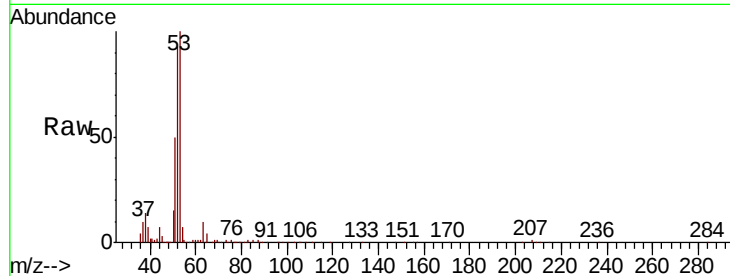
ClientSampleId :

VSTDIC075

Tot Ion:	53	Resp:	149551
Ion	Ratio	Lower	Upper
53	100		
52	92.7	73.2	109.8
51	50.3	35.0	52.4

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#16

Acetone

Concen: 218.346 ug/l

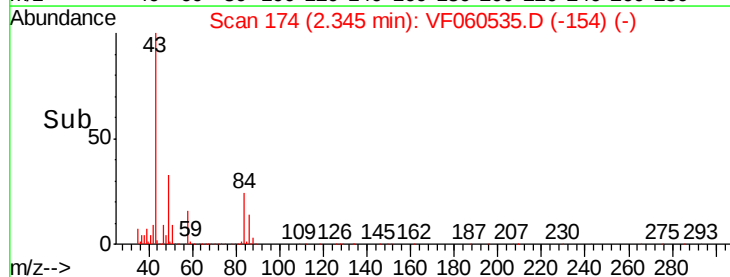
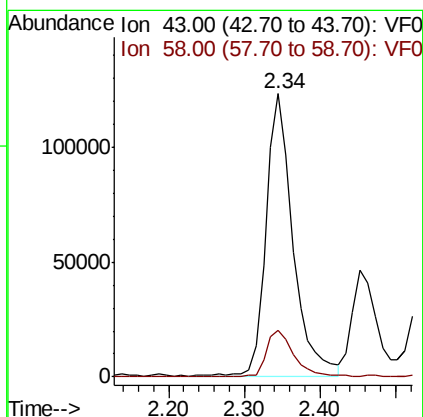
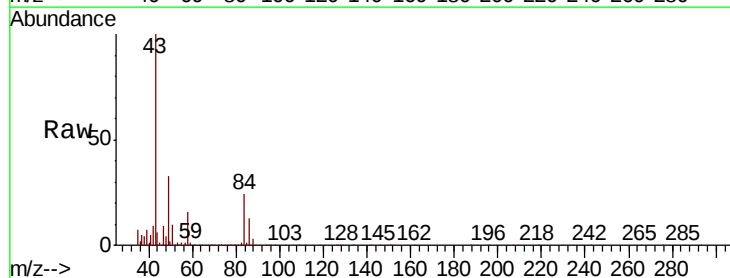
RT: 2.34 min Scan# 174

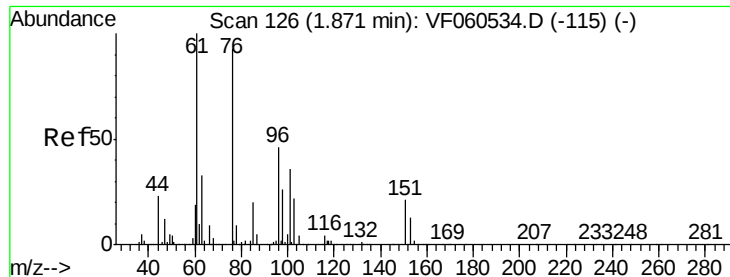
Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion:	43	Resp:	304389
Ion	Ratio	Lower	Upper
43	100		
58	16.4	12.8	19.2





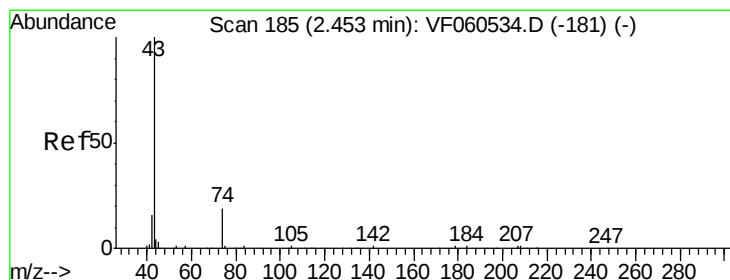
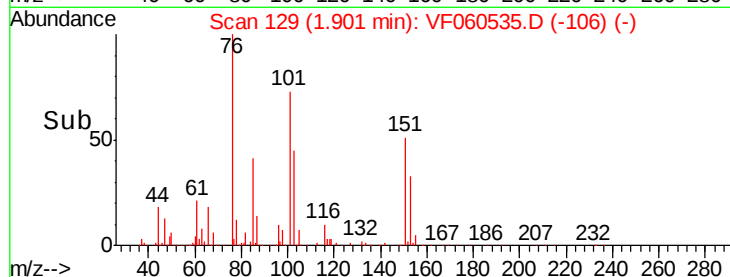
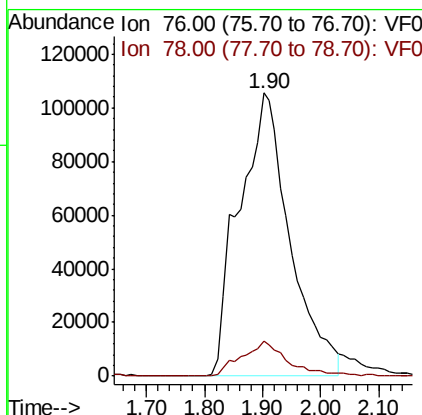
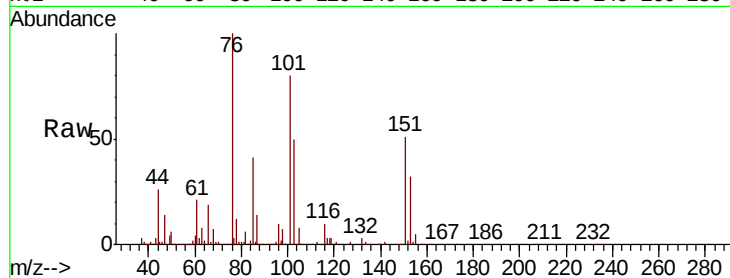
#17
Carbon Disulfide
Concen: 54.244 ug/l
RT: 1.90 min Scan# 129
Delta R.T. 0.03 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.3	8.0	12.0#

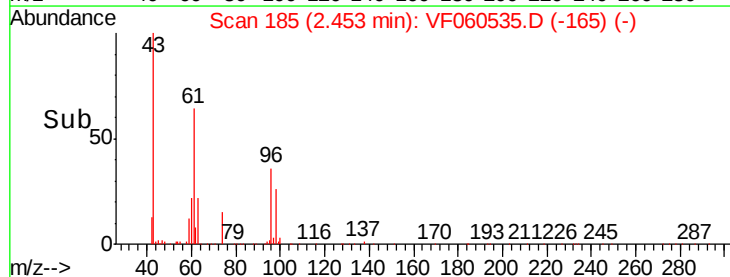
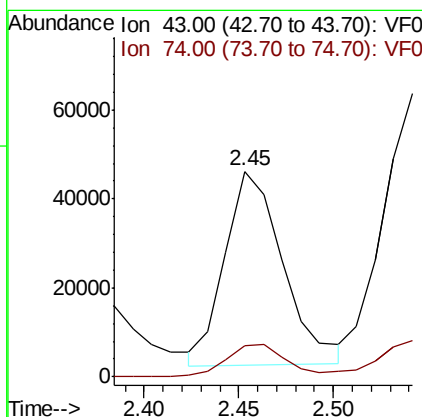
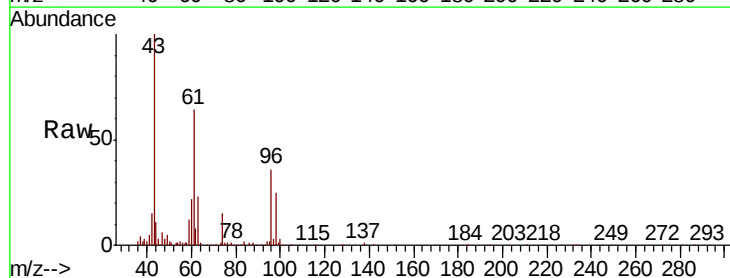
Manual Integrations
APPROVED

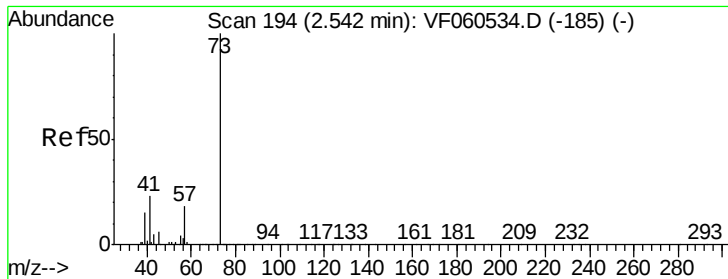
apatel
10/30/2018 2:07:26 PM



#18
Methyl Acetate
Concen: 47.393 ug/l
RT: 2.45 min Scan# 185
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
43	100		
74	15.4	13.5	20.3





#19

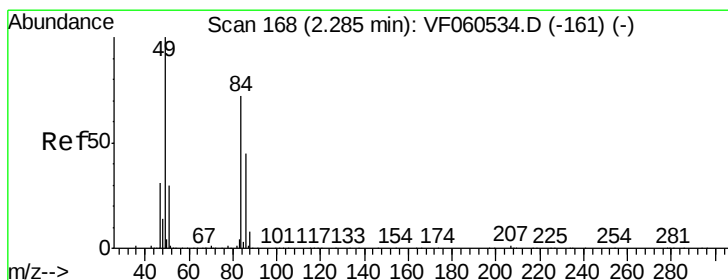
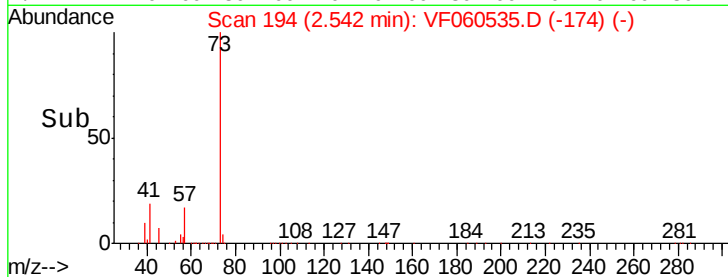
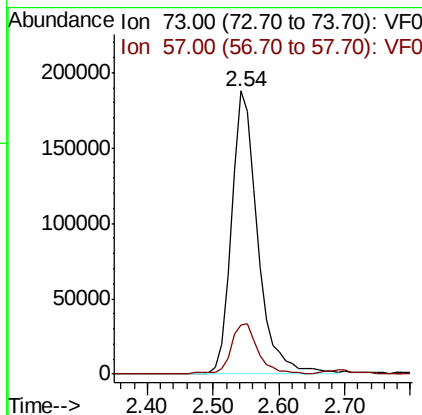
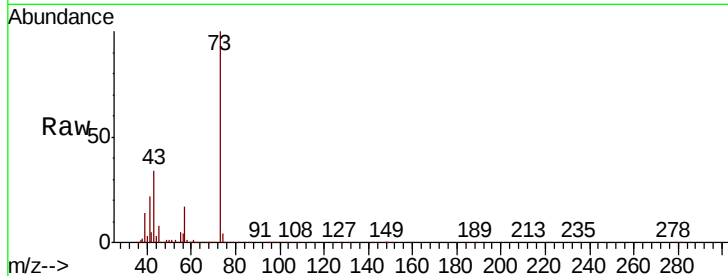
Methyl tert-butyl Ether
 Concen: 49.850 ug/l
 RT: 2.54 min Scan# 194
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.3	14.7	22.1

Manual Integrations
 APPROVED

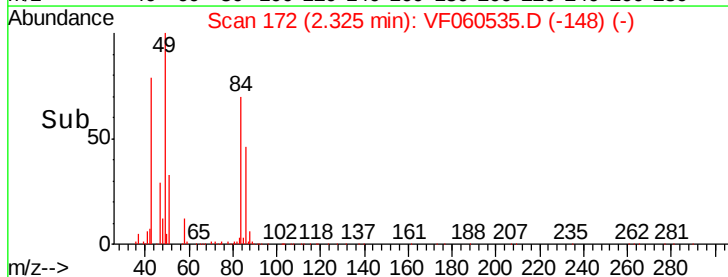
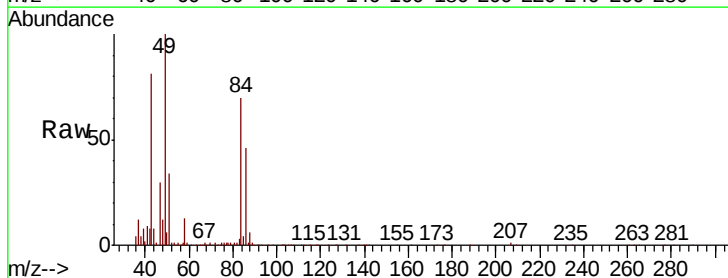
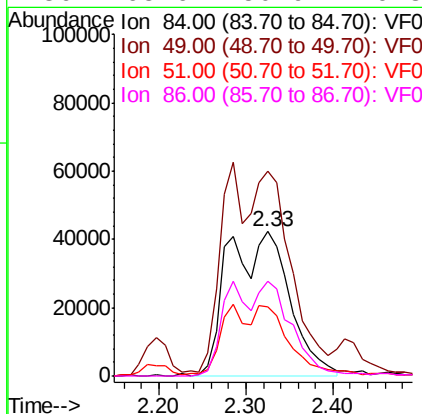
apatel
 10/30/2018 2:07:26 PM

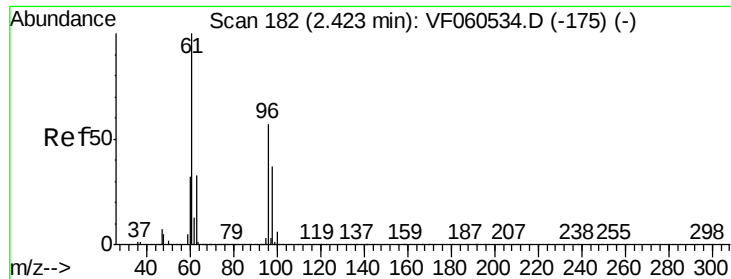


#20

Methylene Chloride
 Concen: 48.690 ug/l m
 RT: 2.33 min Scan# 172
 Delta R.T. 0.04 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
84	100		
49	142.0	115.4	173.0
51	47.7	35.4	53.2
86	65.6	50.9	76.3





#21

trans-1,2-Dichloroethene

Concen: 56.659 ug/l

RT: 2.42 min Scan# 182

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

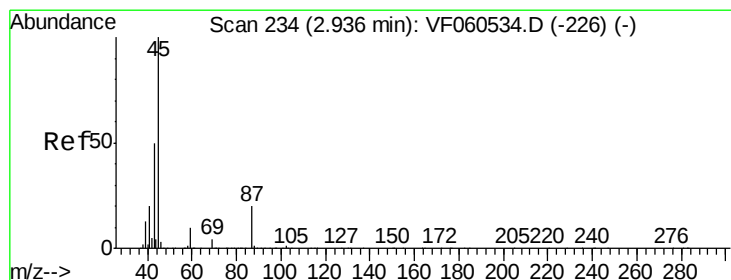
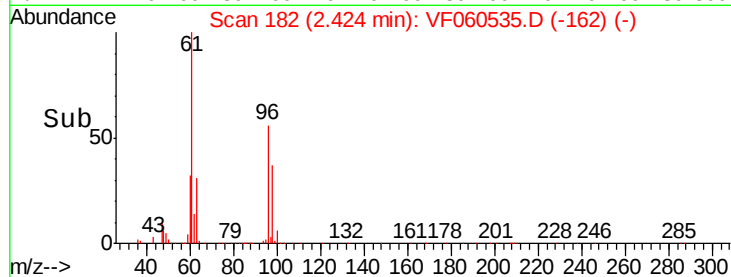
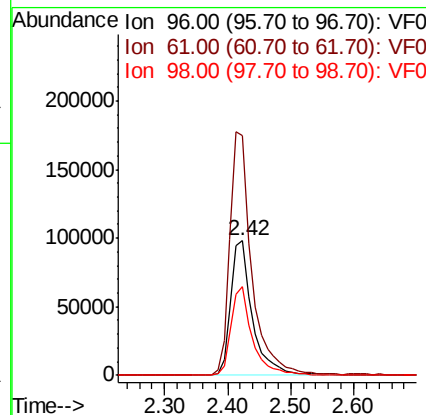
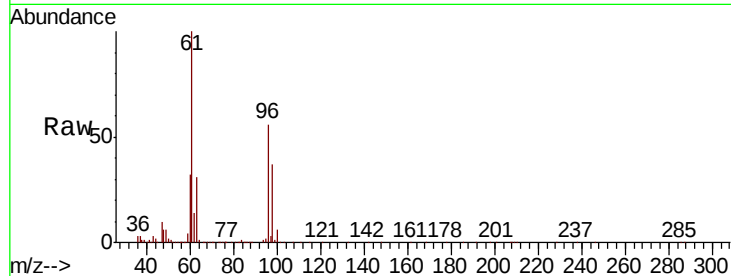
ClientSampleId :

VSTDIC075

Tot Ion:	96	Resp:	232539
Ion	Ratio	Lower	Upper
96	100		
61	178.5	139.8	209.6
98	65.6	52.2	78.4

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#22

Diisopropyl ether

Concen: 56.513 ug/l

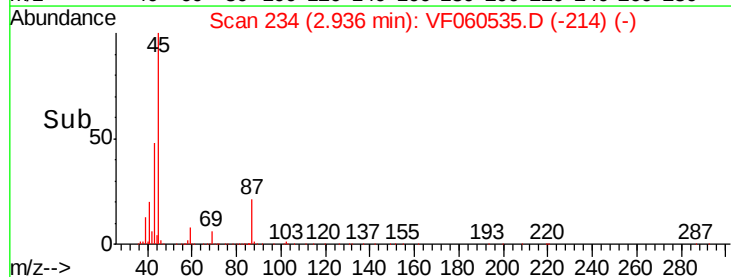
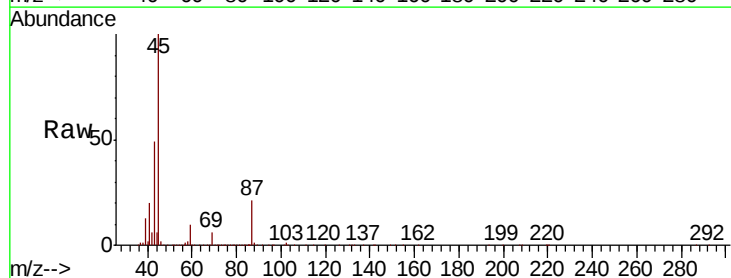
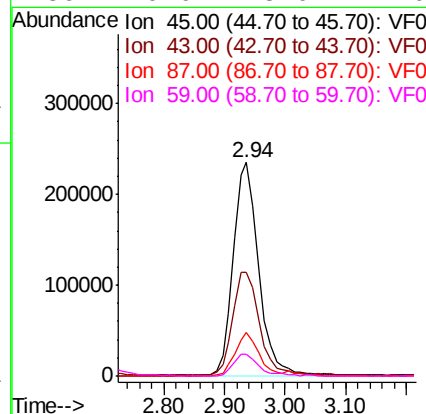
RT: 2.94 min Scan# 234

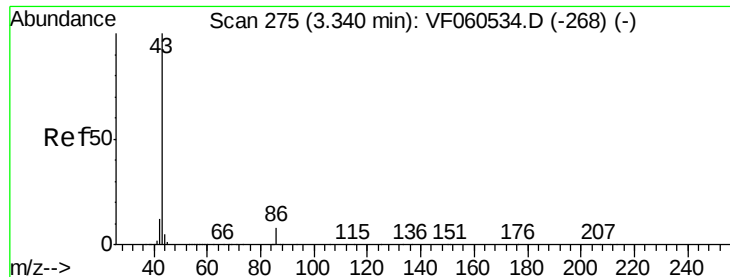
Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion:	45	Resp:	684449
Ion	Ratio	Lower	Upper
45	100		
43	48.7	40.6	60.8
87	20.6	15.9	23.9
59	9.9	8.0	12.0





#23

Vinyl Acetate

Concen: 341.958 ug/l

RT: 3.34 min Scan# 275

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 1355423

Ion Ratio Lower Upper

43 100

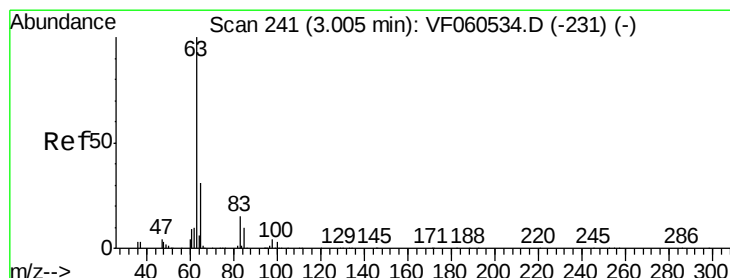
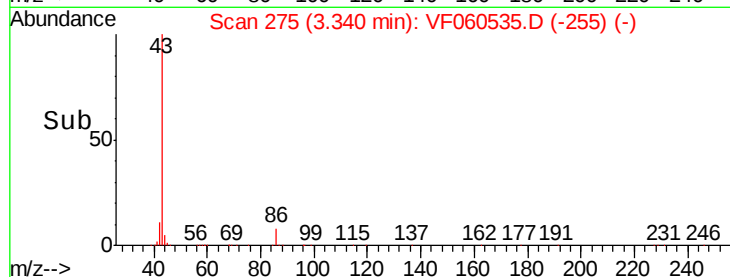
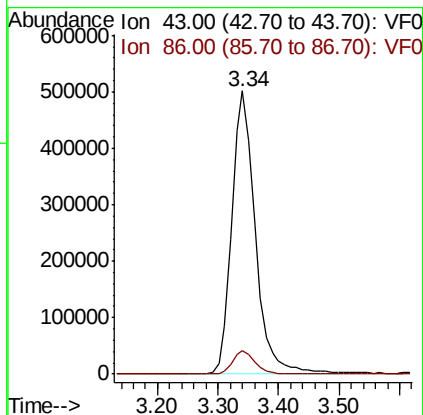
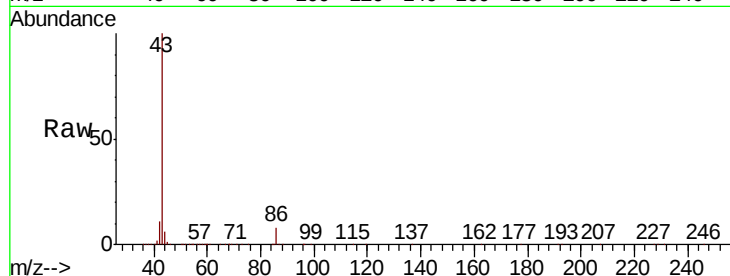
86 8.2 6.2 9.2

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



#24

1,1-Dichloroethane

Concen: 52.684 ug/l

RT: 3.01 min Scan# 241

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

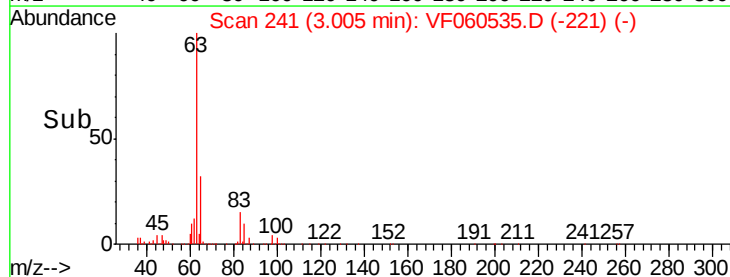
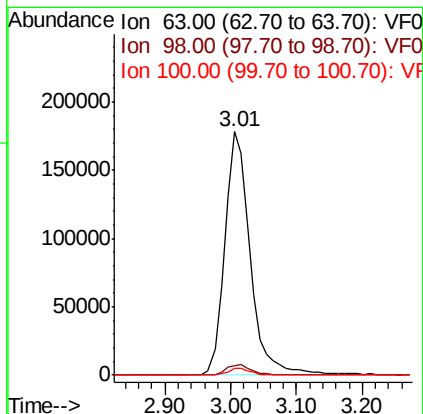
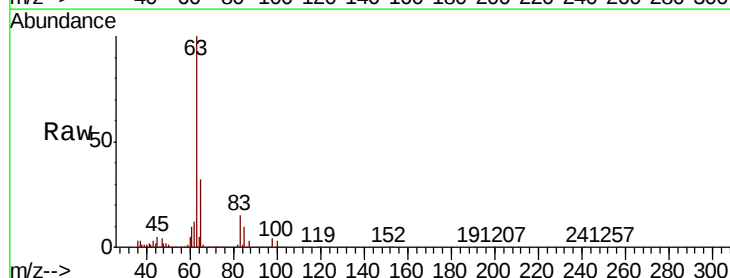
Tgt Ion: 63 Resp: 479642

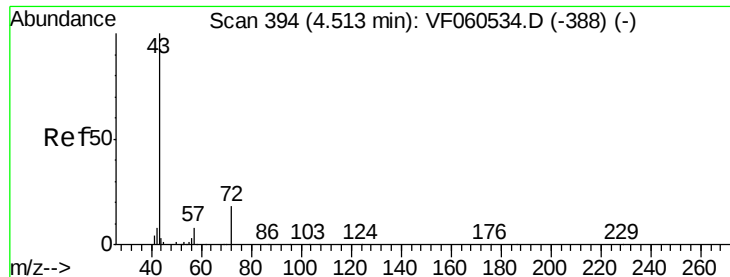
Ion Ratio Lower Upper

63 100

98 3.9 2.0 6.0

100 2.8 1.4 4.0





#25

2-Butanone

Concen: 348.598 ug/l

RT: 4.52 min Scan# 395

Delta R.T. 0.01 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 389964

Ion Ratio Lower Upper

43 100

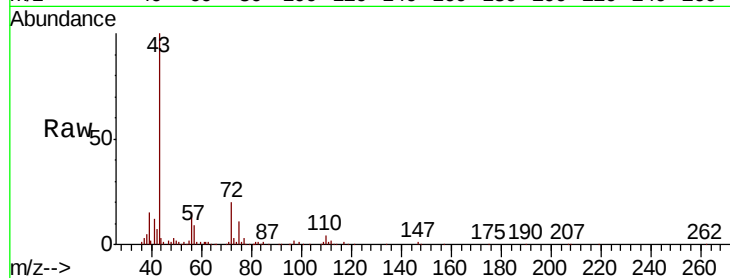
72 19.7 17.4 26.0

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.52

100000

80000

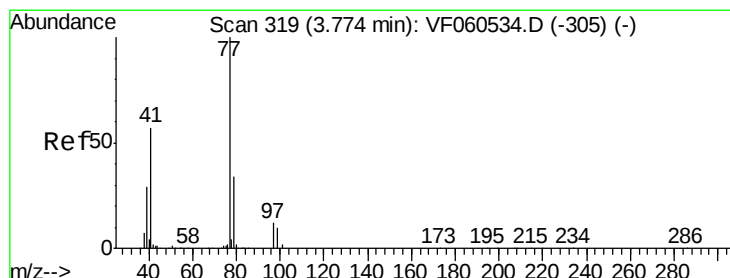
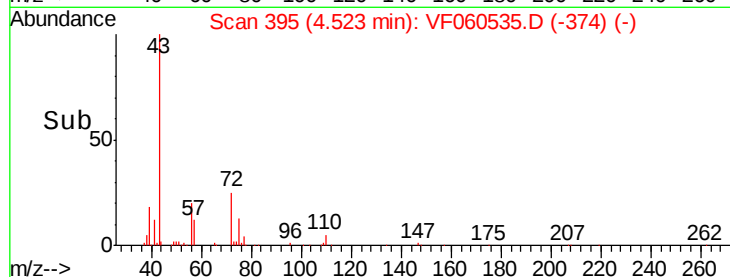
60000

40000

20000

0

Time-->



#26

2,2-Dichloropropane

Concen: 50.952 ug/l

RT: 3.77 min Scan# 319

Delta R.T. 0.00 min

Lab File: VF060535.D

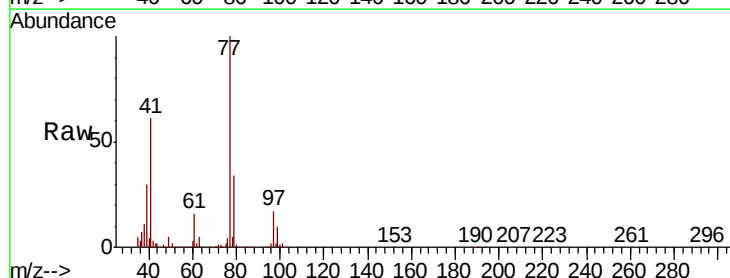
Acq: 29 Oct 2018 18:22

Tgt Ion: 77 Resp: 308571

Ion Ratio Lower Upper

77 100

97 16.9 8.5 25.5



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.77

100000

80000

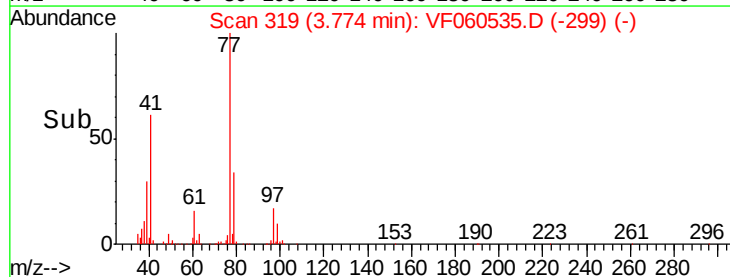
60000

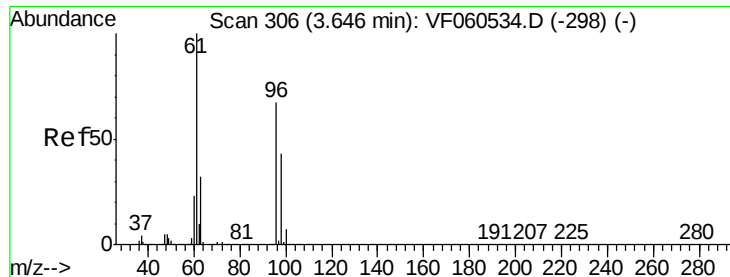
40000

20000

0

Time-->





#27

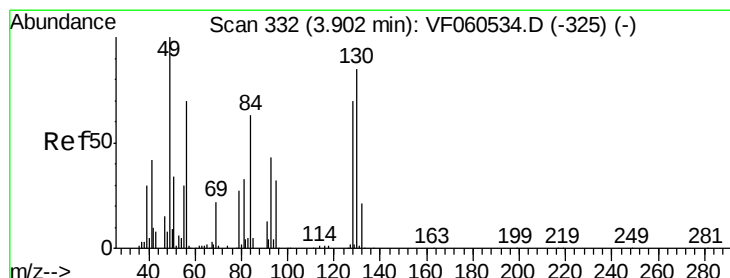
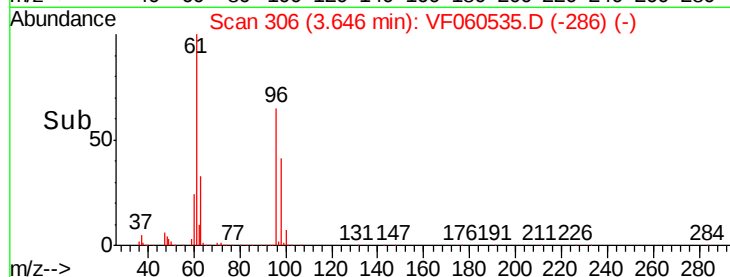
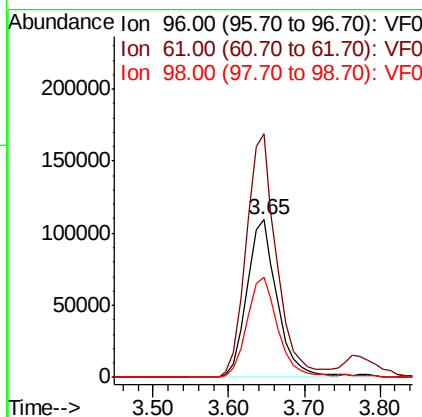
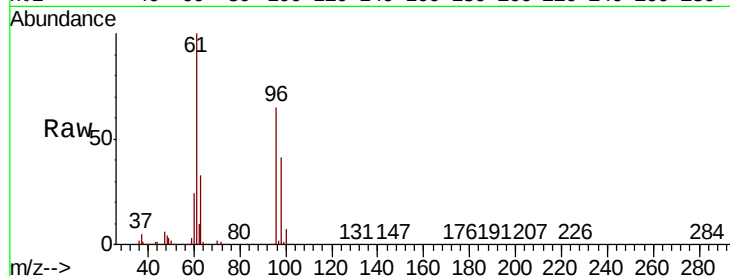
cis-1,2-Dichloroethene
 Concen: 74.528 ug/l
 RT: 3.65 min Scan# 306
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	154.7		0.0	300.8	
98	63.8		0.0	128.4	

Manual Integrations
 APPROVED

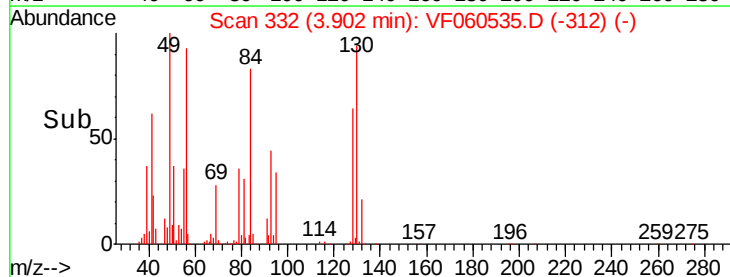
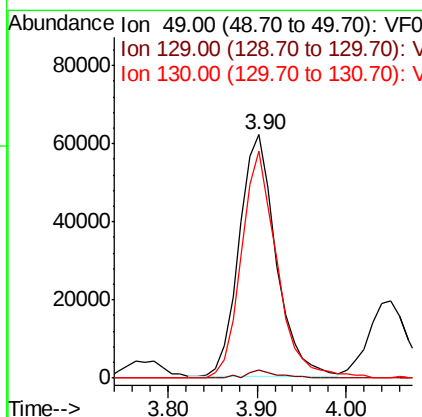
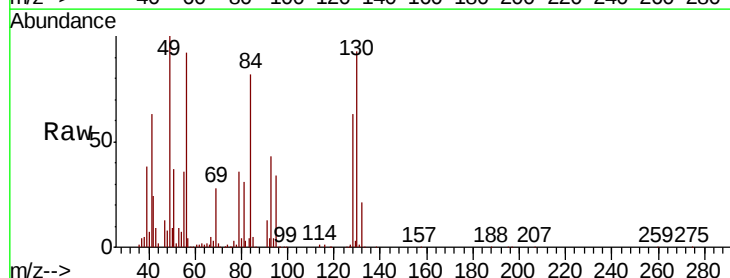
apatel
 10/30/2018 2:07:26 PM

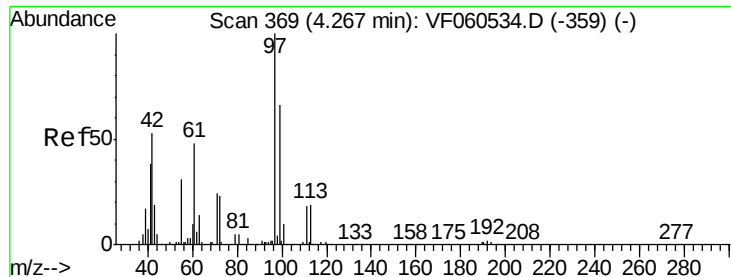


#28

Bromochloromethane
 Concen: 62.692 ug/l
 RT: 3.90 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100				
129	3.2		0.0	4.8	
130	93.4		67.5	101.3	





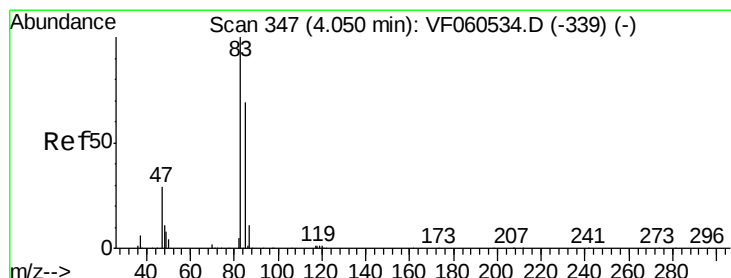
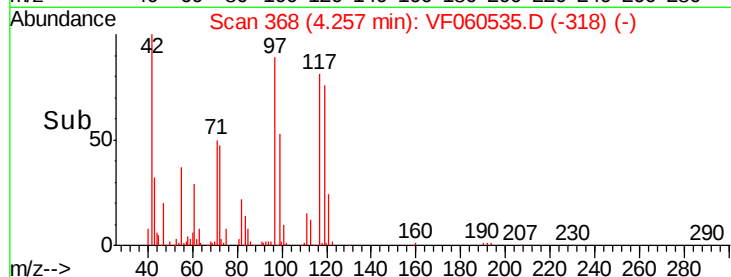
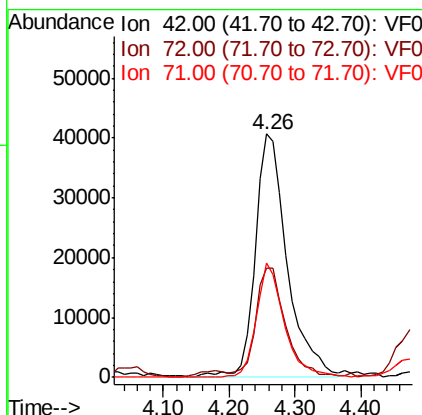
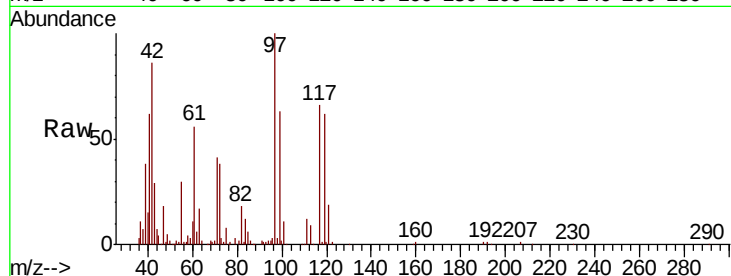
#29
Tetrahydrofuran
Concen: 315.886 ug/l
RT: 4.26 min Scan# 368
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.4	32.5	48.7
71	41.4	34.5	51.7

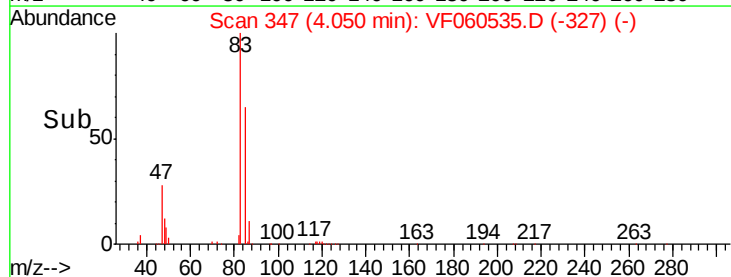
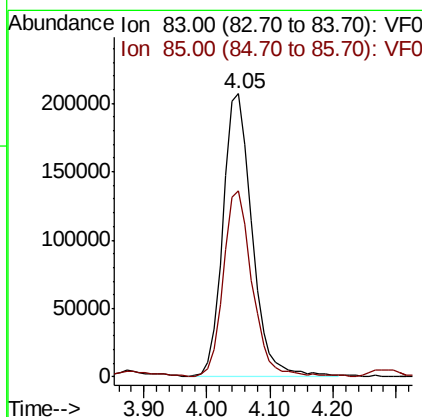
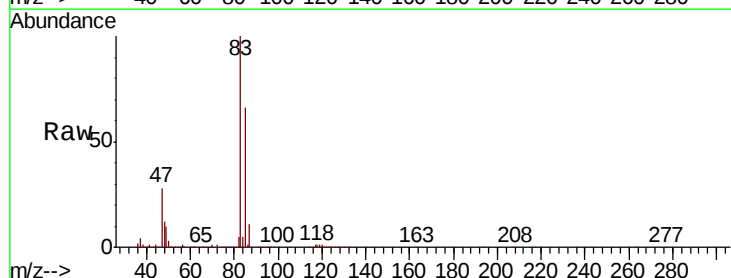
Manual Integrations
APPROVED

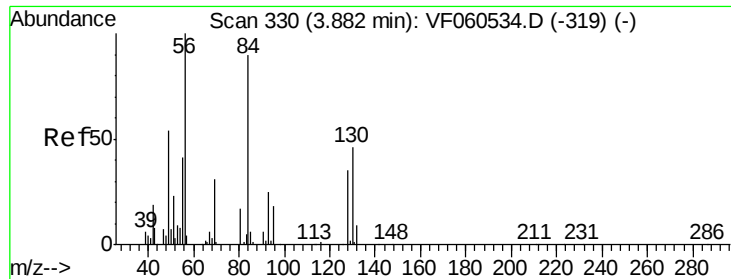
apatel
10/30/2018 2:07:26 PM



#30
Chloroform
Concen: 60.897 ug/l
RT: 4.05 min Scan# 347
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	55.0	82.4





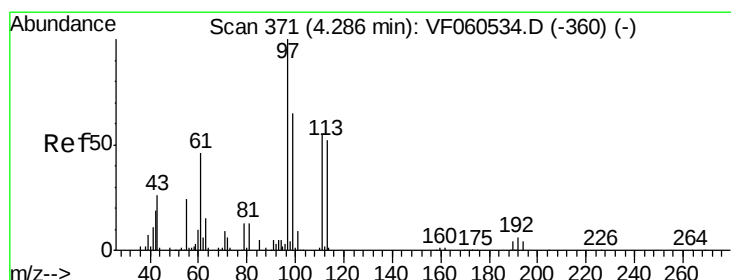
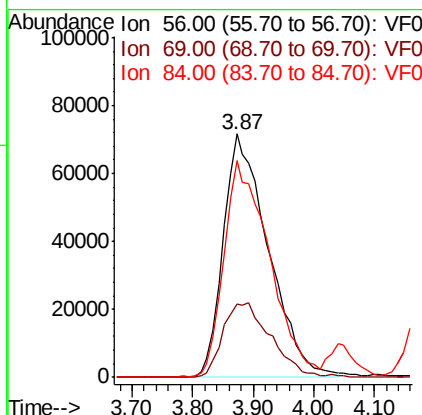
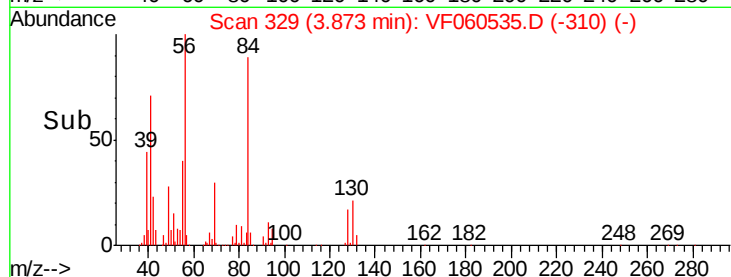
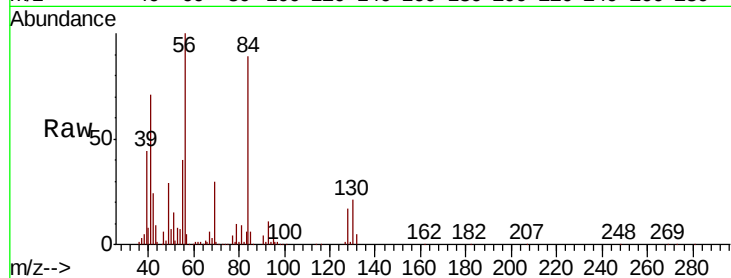
#31
Cyclohexane
Concen: 76.388 ug/l
RT: 3.87 min Scan# 329
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.4	25.0	37.6
84	89.0	72.1	108.1

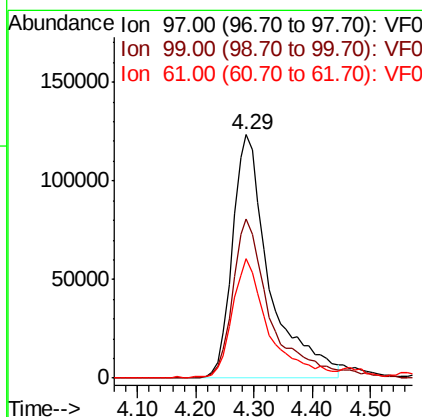
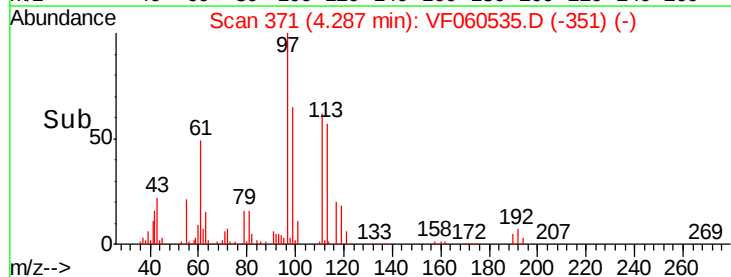
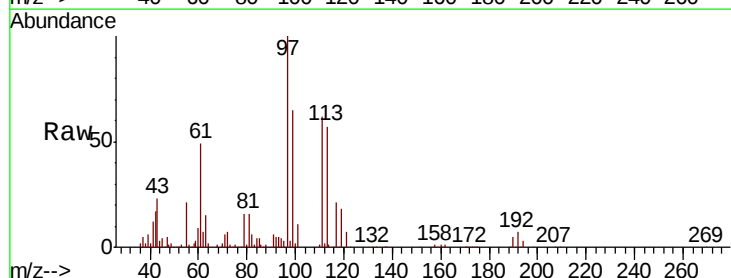
Manual Integrations
APPROVED

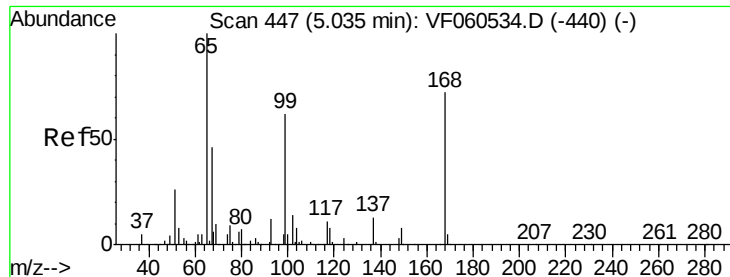
apatel
10/30/2018 2:07:26 PM



#32
1,1,1-Trichloroethane
Concen: 55.893 ug/l
RT: 4.29 min Scan# 371
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.7	77.5
61	49.2	36.8	55.2





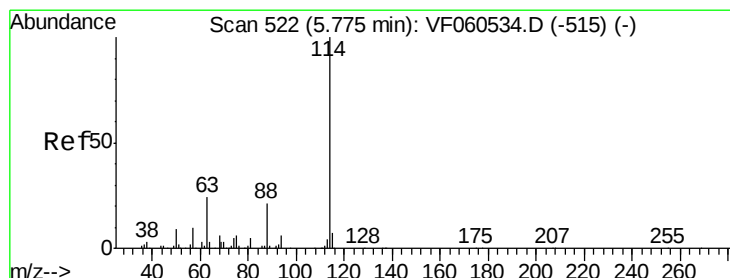
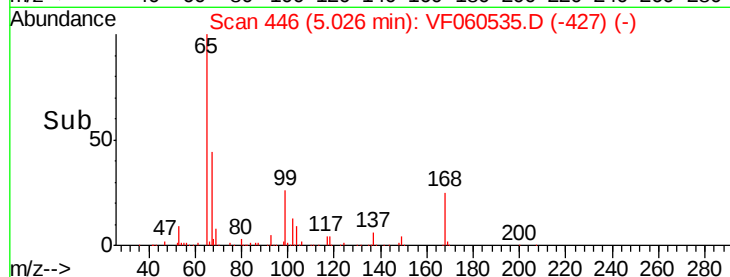
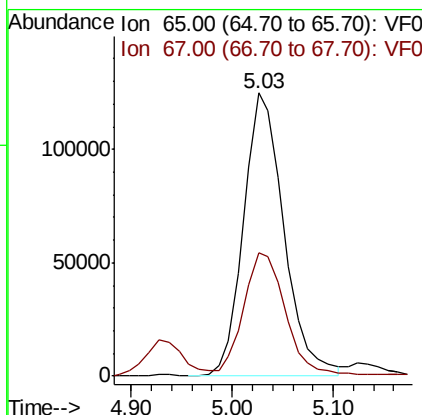
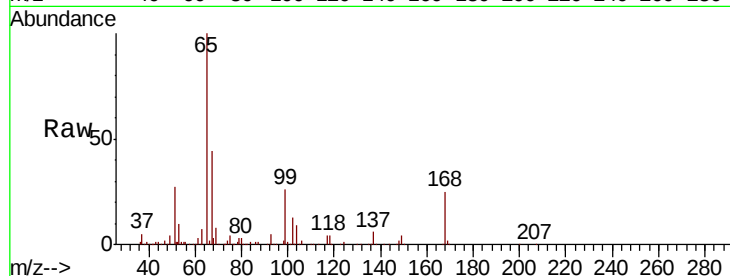
#33
 1,2-Dichloroethane-d4
 Concen: 58.581 ug/l
 RT: 5.03 min Scan# 446
 Delta R.T. -0.01 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
65	100	348700		
67	43.6	0.0	94.4	

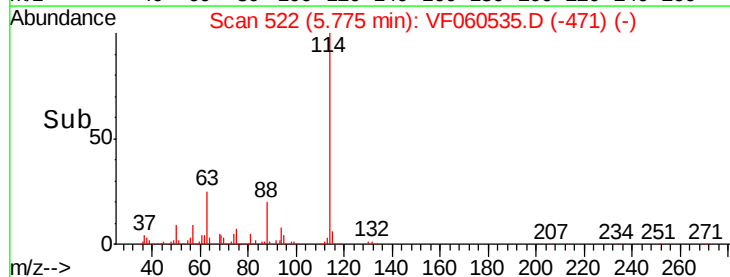
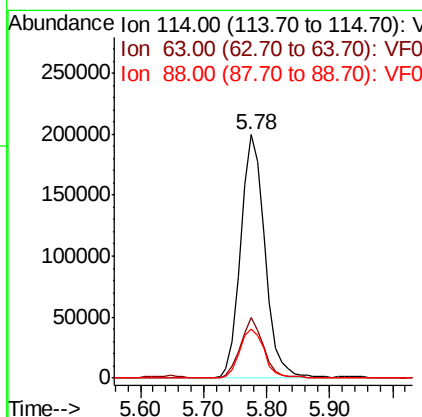
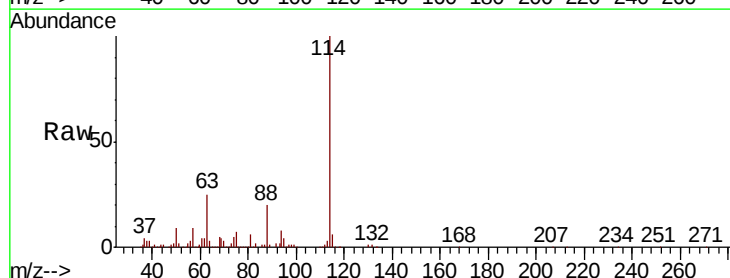
Manual Integrations
 APPROVED

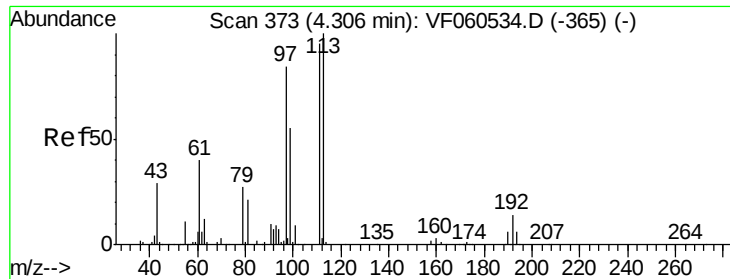
apatel
 10/30/2018 2:07:26 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	531348		
63	24.7	0.0	48.0	
88	20.1	0.0	42.0	





#35

Dibromofluoromethane

Concen: 54.457 ug/l

RT: 4.31 min Scan# 373

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

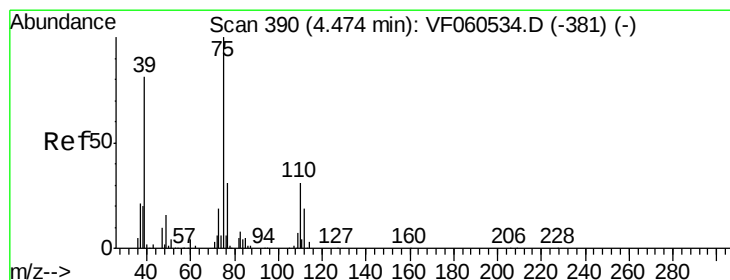
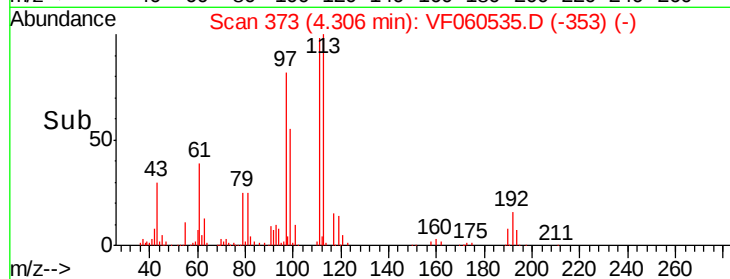
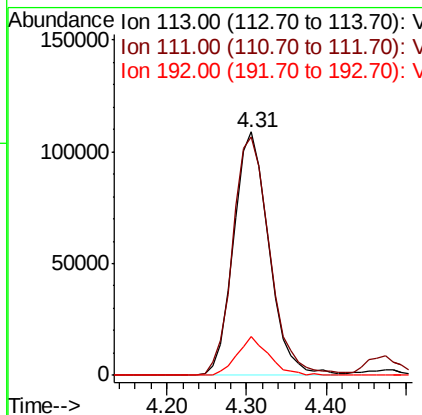
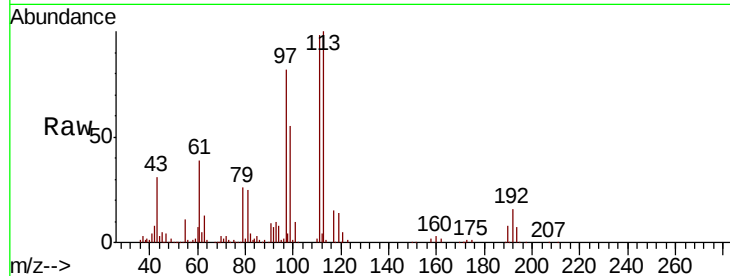
ClientSampleId :

VSTDIC075

Tot Ion:	113	Resp:	334961
Ion Ratio	Lower	Upper	
113	100		
111	98.2	75.9	113.9
192	15.9	11.2	16.8

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#36

1,1-Dichloropropene

Concen: 57.161 ug/l

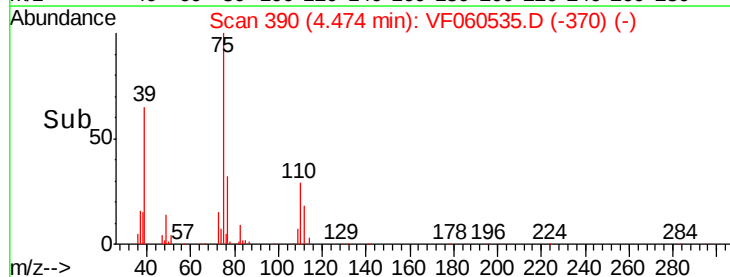
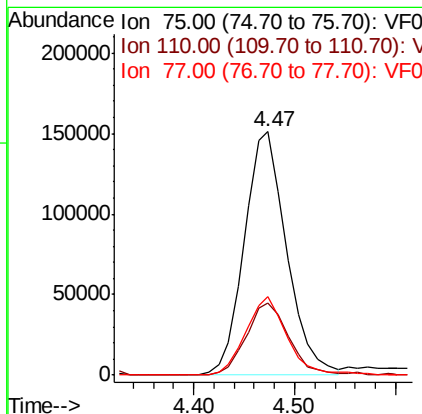
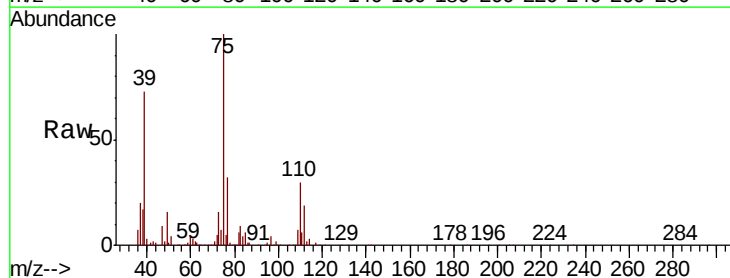
RT: 4.47 min Scan# 390

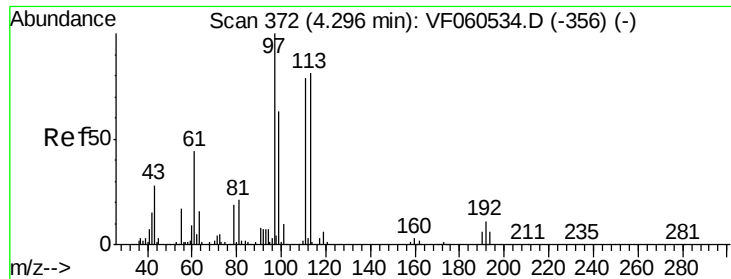
Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion:	75	Resp:	440588
Ion Ratio	Lower	Upper	
75	100		
110	29.6	15.3	45.8
77	32.1	24.8	37.2





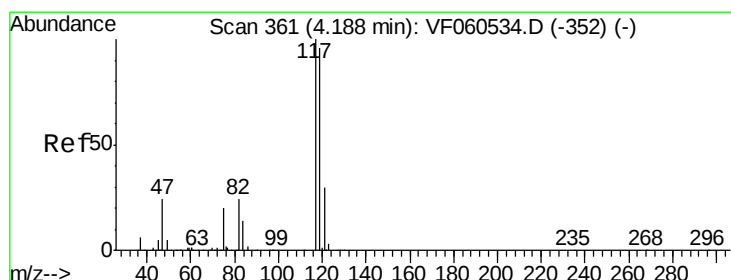
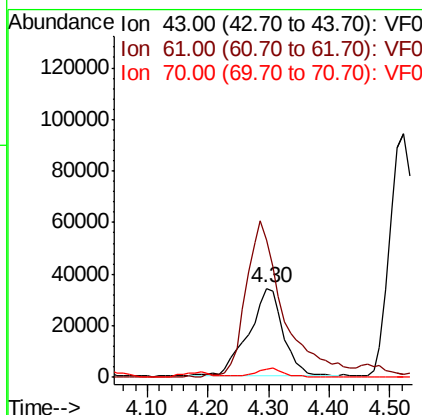
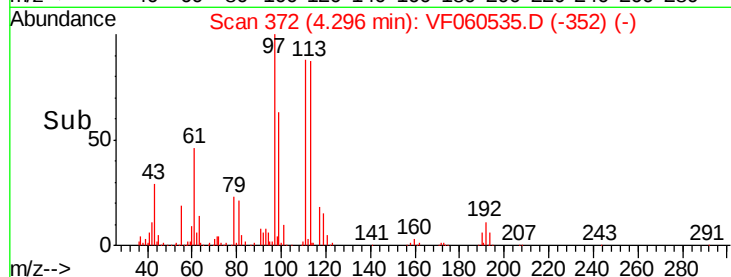
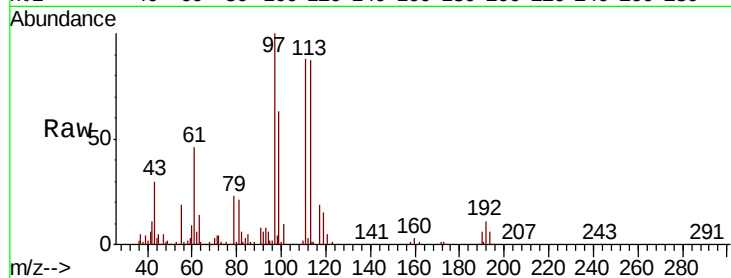
#37
Ethyl Acetate
Concen: 52.425 ug/l
RT: 4.30 min Scan# 372
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
61	154.3	123.9	185.9
70	9.6	7.3	10.9

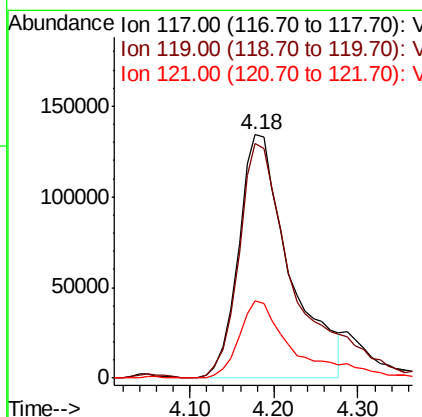
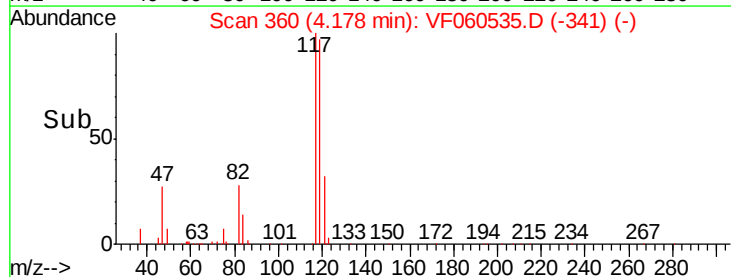
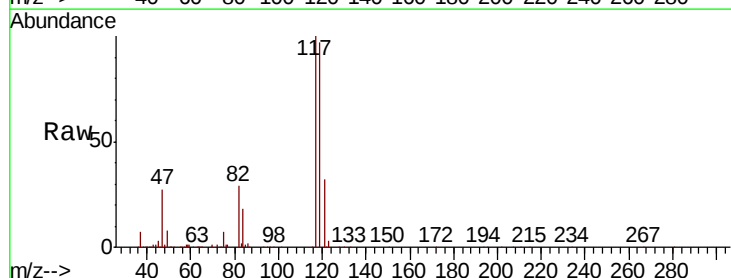
Manual Integrations
APPROVED

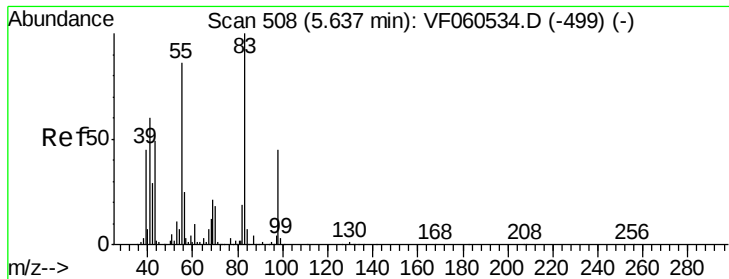
apatel
10/30/2018 2:07:26 PM



#38
Carbon Tetrachloride
Concen: 50.773 ug/l m
RT: 4.18 min Scan# 360
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.5	114.7
121	31.7	24.3	36.5





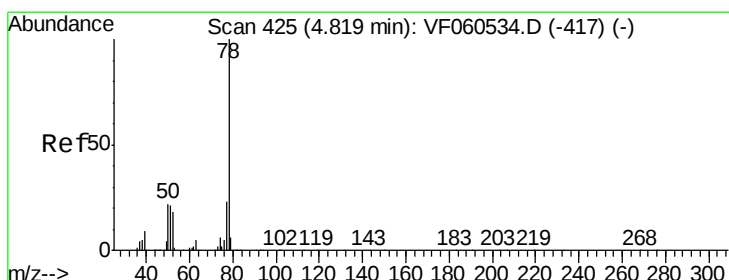
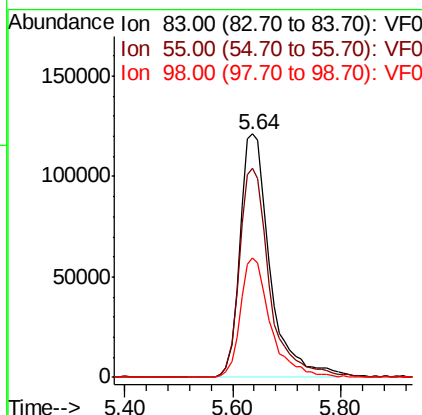
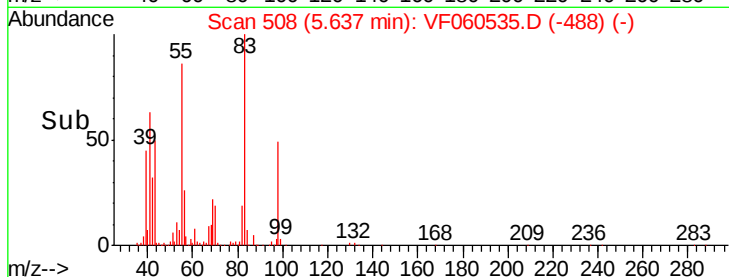
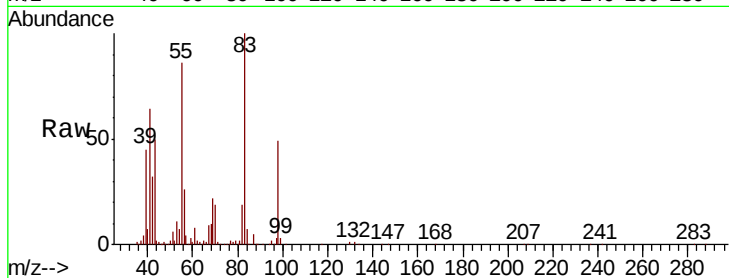
#39
Methvlcvclohexane
Concen: 72.090 ug/l
RT: 5.64 min Scan# 508
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.8	69.0	103.4
98	48.9	36.1	54.1

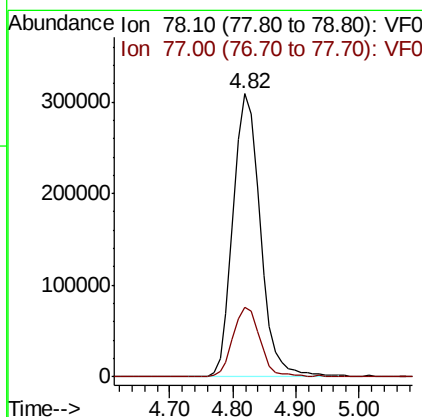
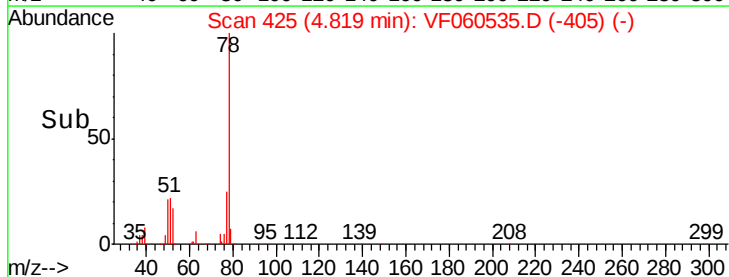
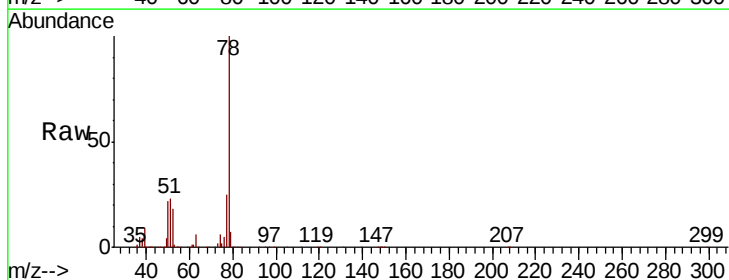
Manual Integrations
APPROVED

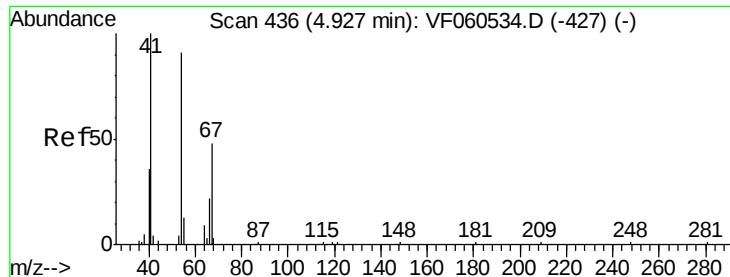
apatel
10/30/2018 2:07:26 PM



#40
Benzene
Concen: 70.797 ug/l
RT: 4.82 min Scan# 425
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.5	27.7





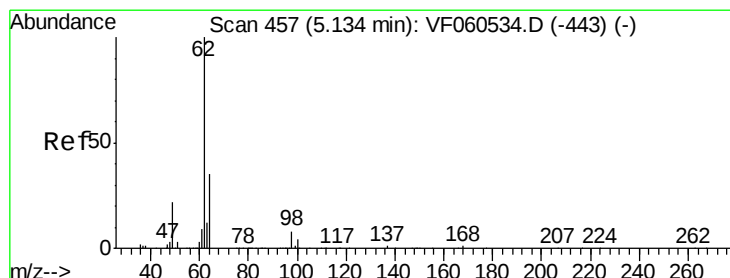
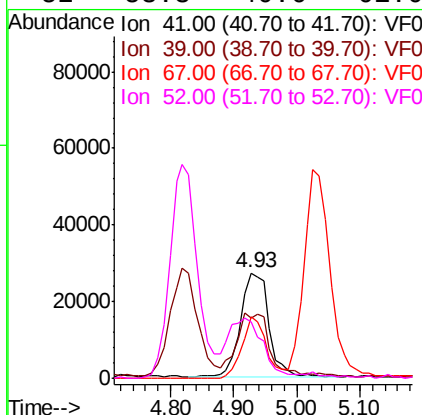
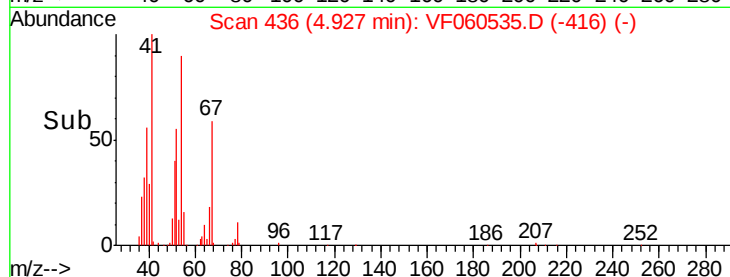
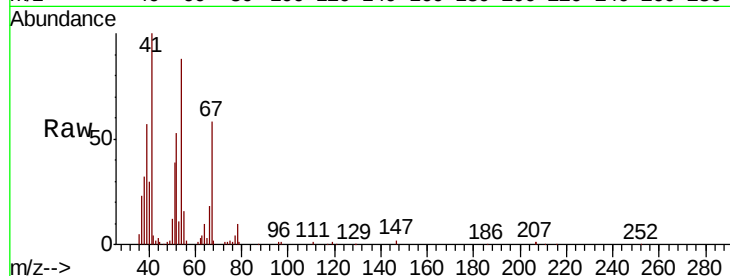
#41
Methacrylonitrile
Concen: 65.500 ug/l
RT: 4.93 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.5	51.0	76.6	
67	58.0	38.0	57.0	
52	53.3	40.6	61.0	

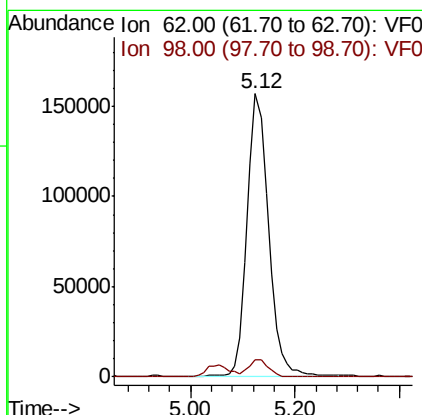
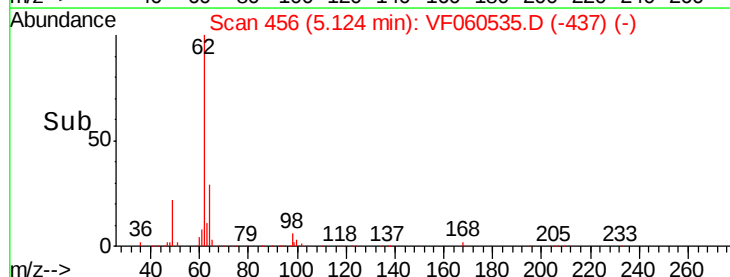
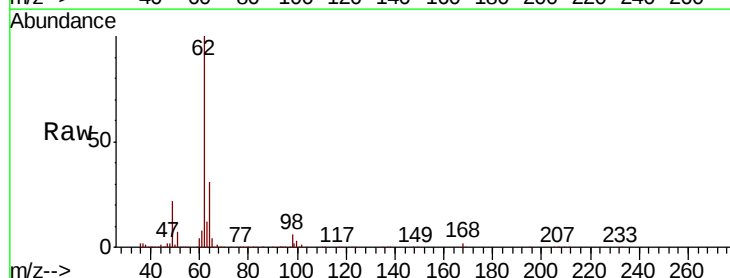
Manual Integrations
APPROVED

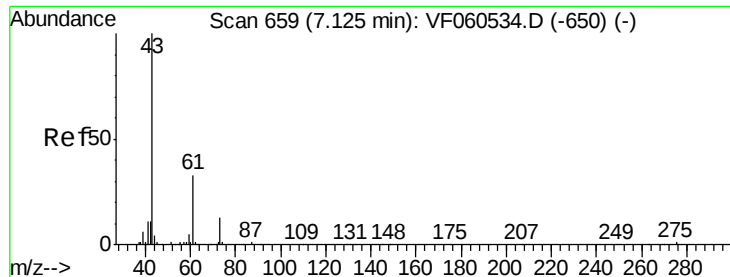
apatel
10/30/2018 2:07:26 PM



#42
1,2-Dichloroethane
Concen: 54.620 ug/l
RT: 5.12 min Scan# 456
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	6.1	0.0	15.8	





#43

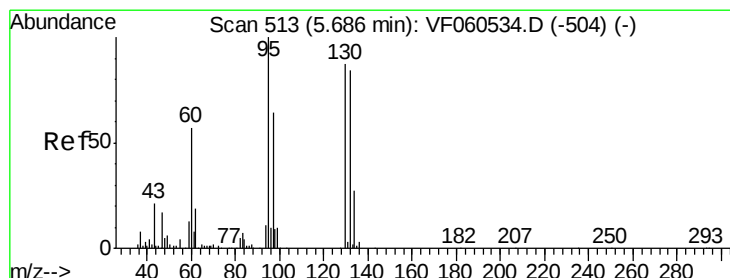
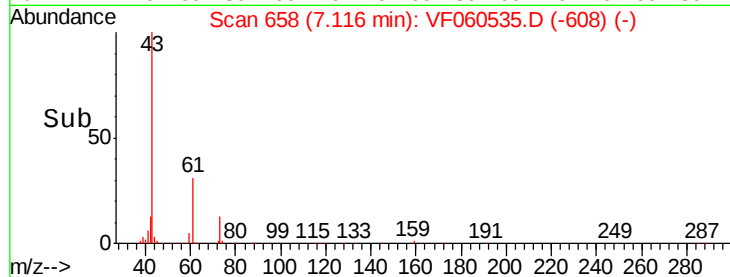
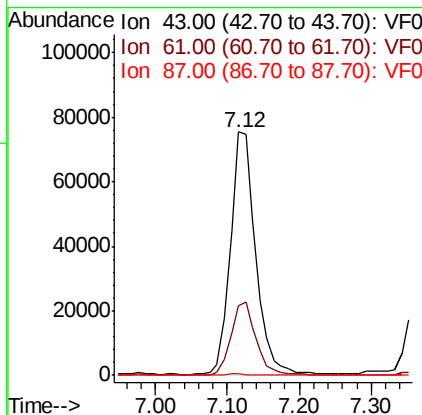
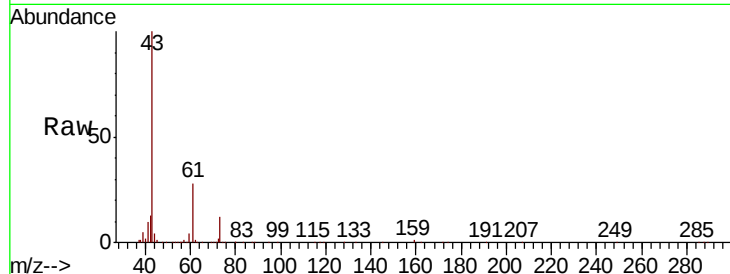
Isopropyl Acetate
 Concen: 66.968 ug/l
 RT: 7.12 min Scan# 658
 Delta R.T. -0.01 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.3	26.6	40.0
87	0.4	0.6	1.0

Manual Integrations
 APPROVED

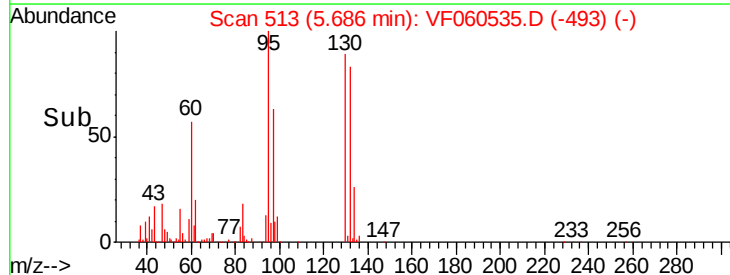
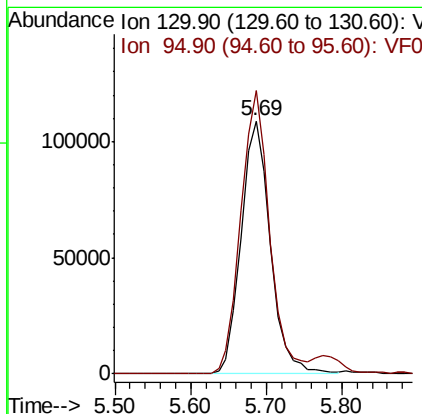
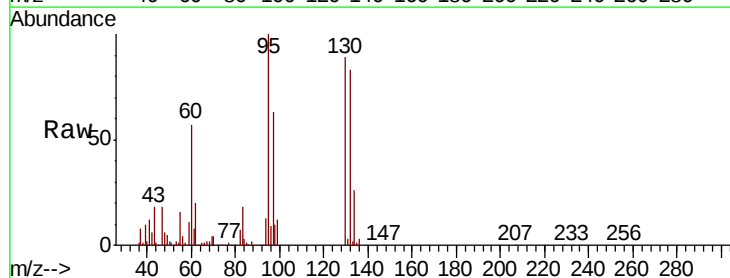
apatel
 10/30/2018 2:07:26 PM

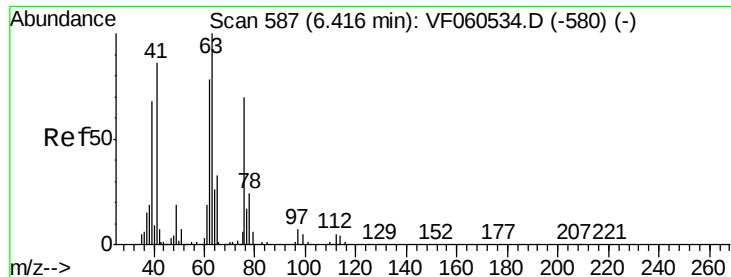


#44

Trichloroethene
 Concen: 65.000 ug/l
 RT: 5.69 min Scan# 513
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	111.8	0.0	229.4





#45

1,2-Dichloropropane

Concen: 71.053 ug/l

RT: 6.41 min Scan# 586

Delta R.T. -0.01 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 63 Resp: 233393

Ion Ratio Lower Upper

63 100

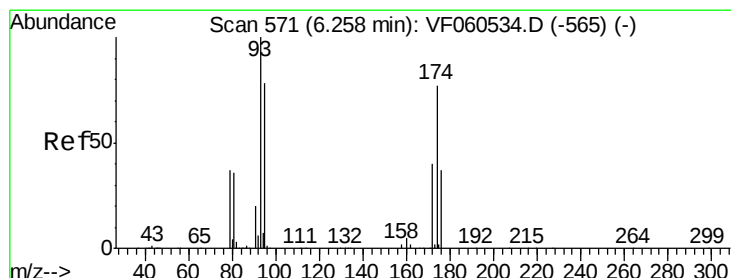
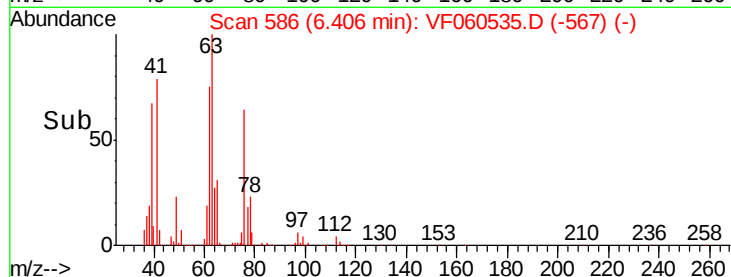
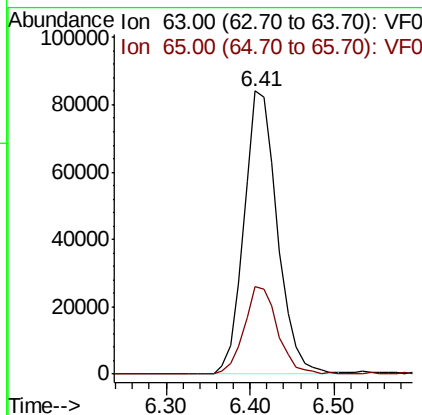
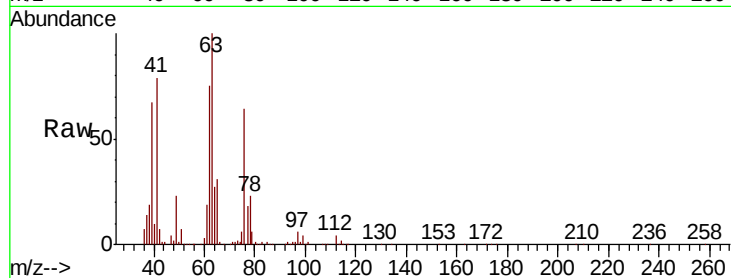
65 30.7 26.5 39.7

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



#46

Dibromomethane

Concen: 63.298 ug/l

RT: 6.26 min Scan# 571

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

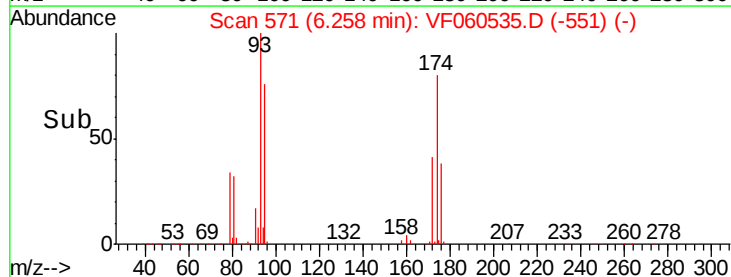
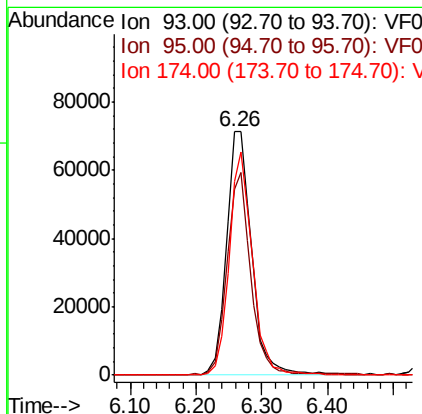
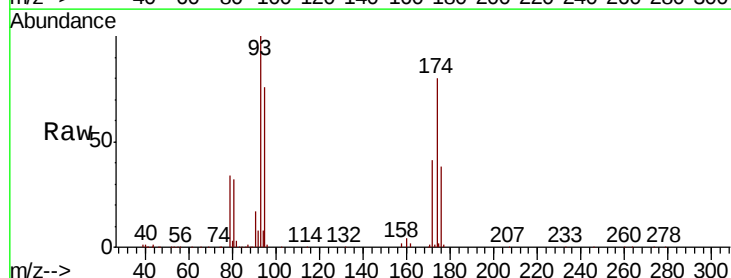
Tgt Ion: 93 Resp: 191075

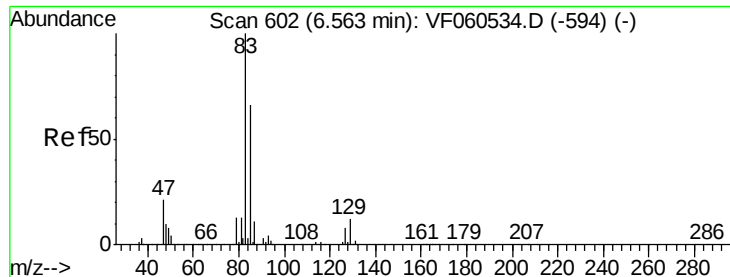
Ion Ratio Lower Upper

93 100

95 77.3 64.3 96.5

174 79.5 63.3 94.9





#47

Bromodichloromethane

Concen: 57.090 ug/l

RT: 6.55 min Scan# 601

Delta R.T. -0.01 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

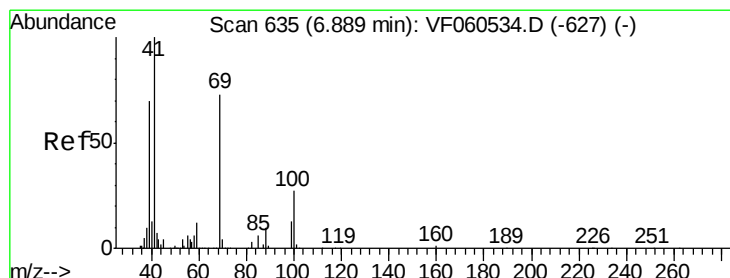
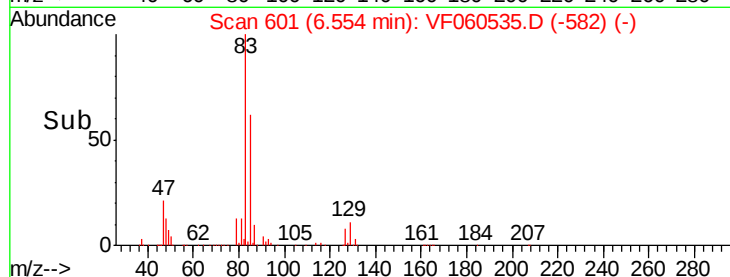
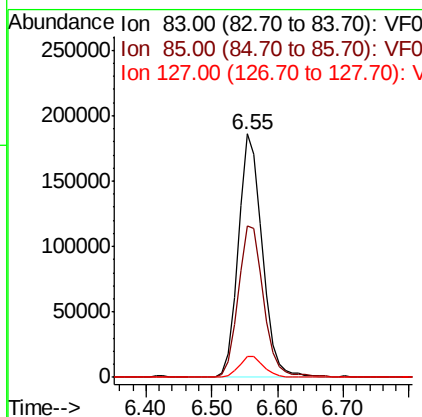
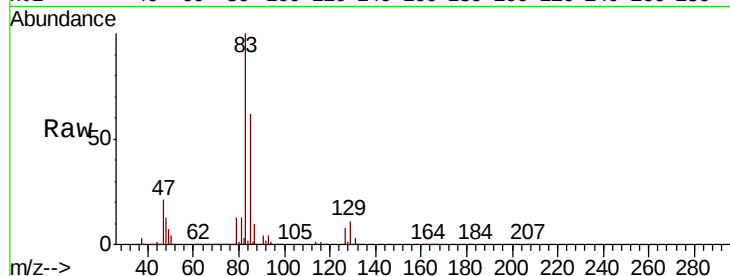
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	476012
Ion	Ratio	Lower	Upper
83	100		
85	62.2	52.7	79.1
127	8.5	6.4	9.6

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#48

Methyl methacrylate

Concen: 63.575 ug/l

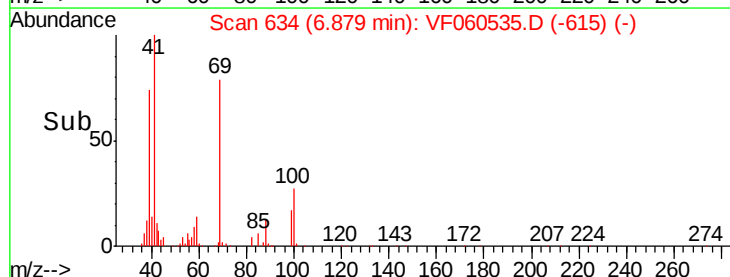
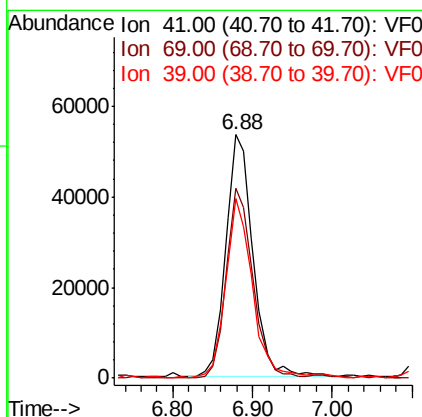
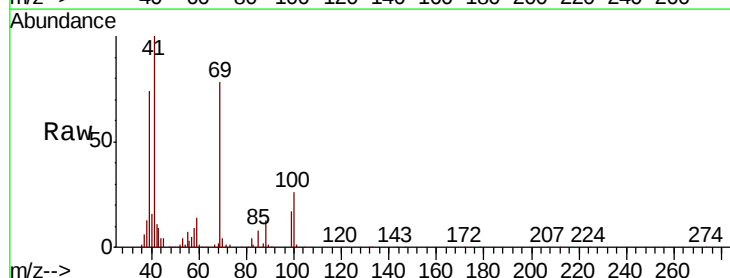
RT: 6.88 min Scan# 634

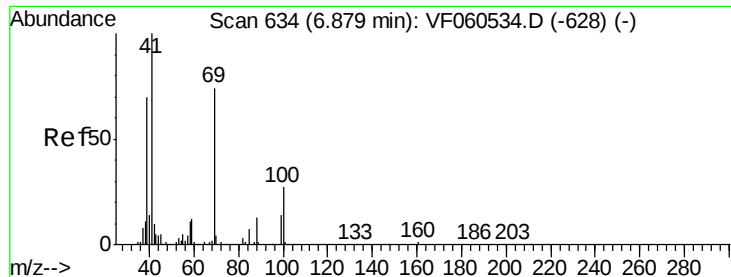
Delta R.T. -0.01 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion:	41	Resp:	129048
Ion	Ratio	Lower	Upper
41	100		
69	78.1	58.4	87.6
39	73.9	56.4	84.6





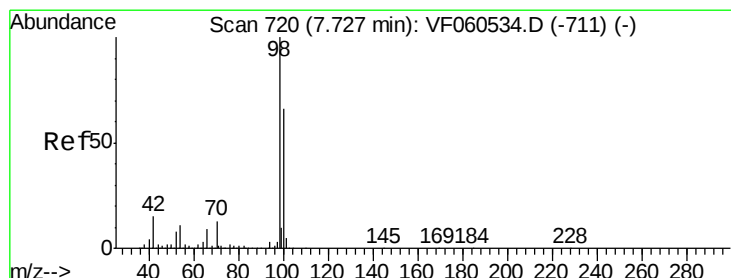
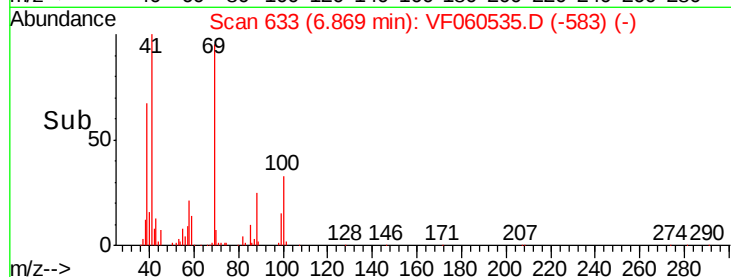
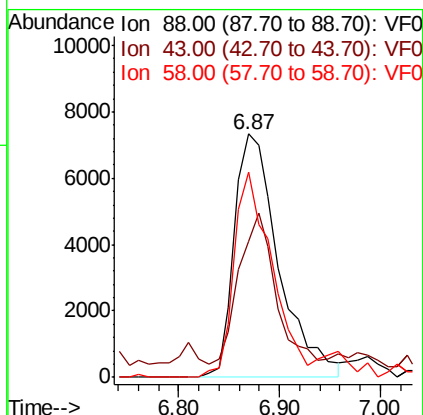
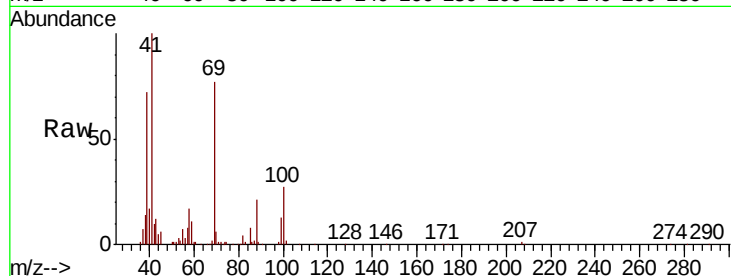
#49
1,4-Dioxane
Concen: 1259.489 ug/l
RT: 6.87 min Scan# 633
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
88	100		
43	55.9	49.7	74.5
58	84.4	67.7	101.5

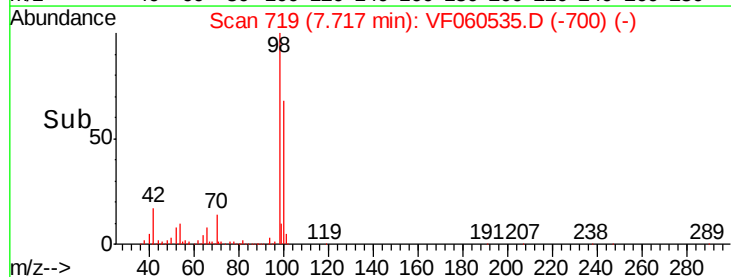
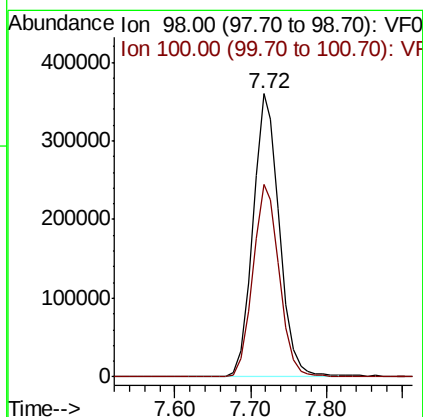
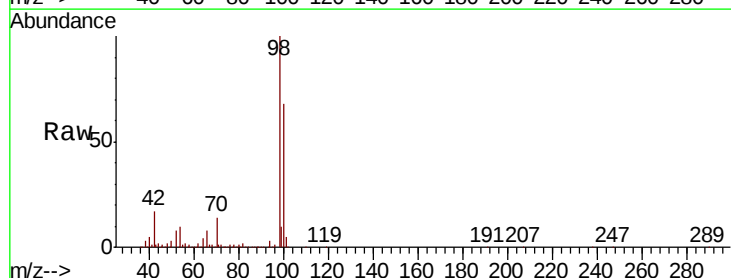
Manual Integrations
APPROVED

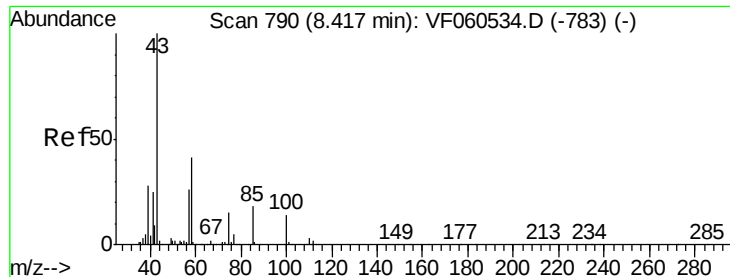
apatel
10/30/2018 2:07:26 PM



#50
Toluene-d8
Concen: 68.059 ug/l
RT: 7.72 min Scan# 719
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.0	79.6





#51

4-Methyl-2-Pentanone

Concen: 281.734 ug/l

RT: 8.42 min Scan# 790

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 587898

Ion Ratio Lower Upper

43 100

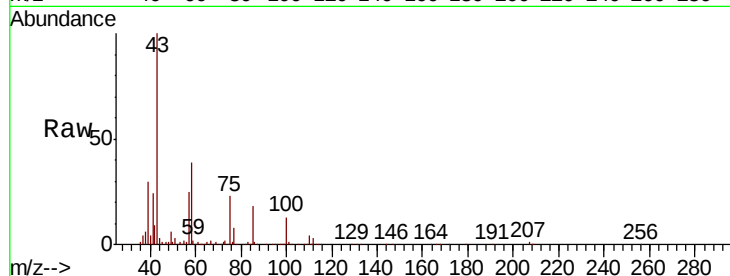
58 38.7 32.6 49.0

Manual Integrations

APPROVED

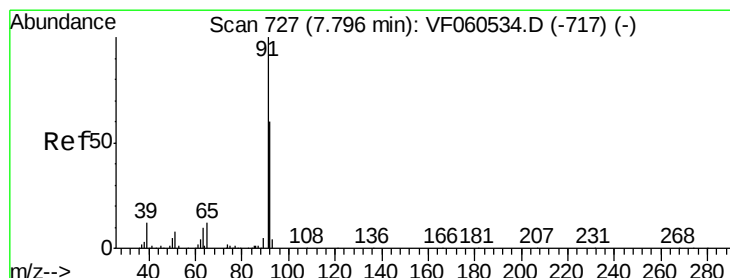
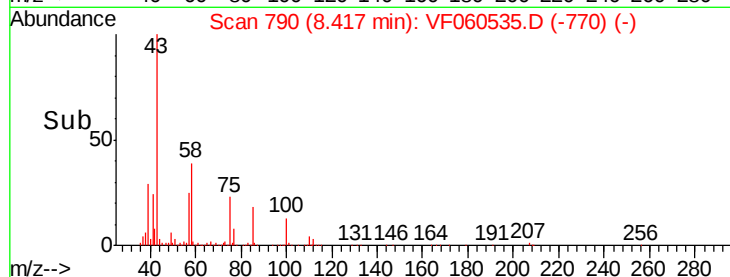
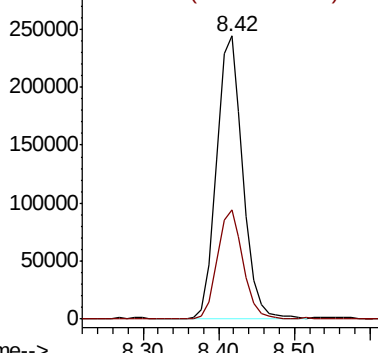
apatel

10/30/2018 2:07:26 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 72.369 ug/l

RT: 7.79 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF060535.D

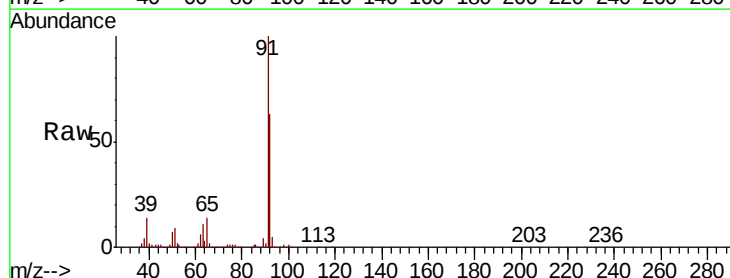
Acq: 29 Oct 2018 18:22

Tgt Ion: 92 Resp: 624612

Ion Ratio Lower Upper

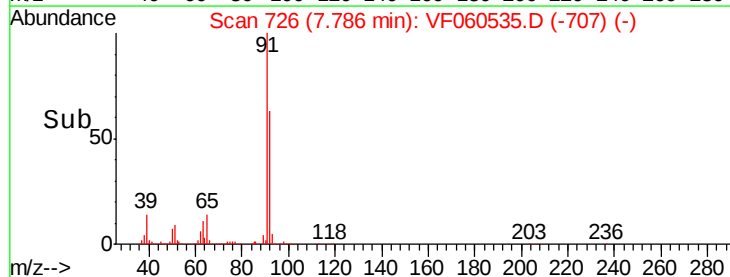
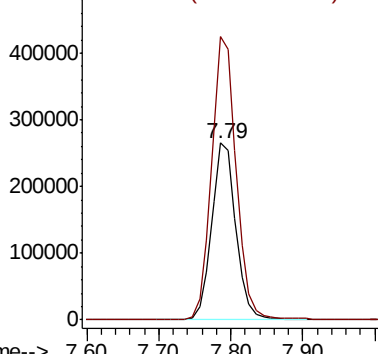
92 100

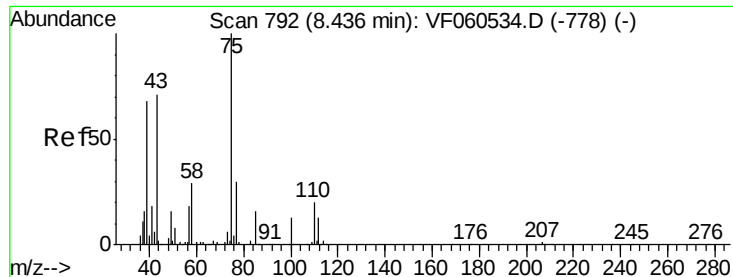
91 160.0 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 54.429 ug/l

RT: 8.44 min Scan# 792

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 75 Resp: 339486

Ion Ratio Lower Upper

75 100

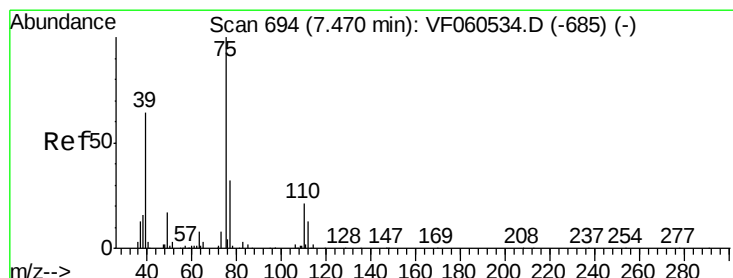
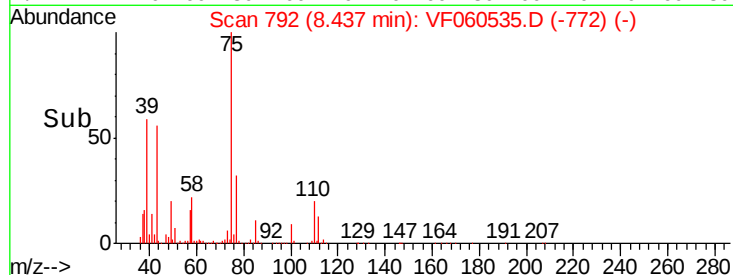
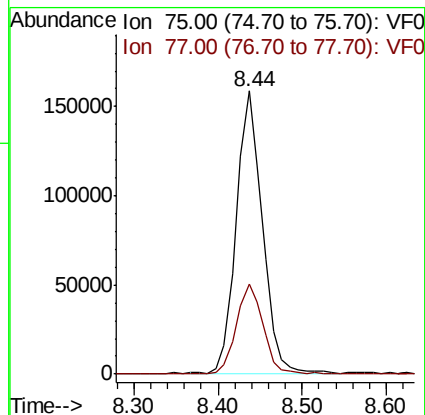
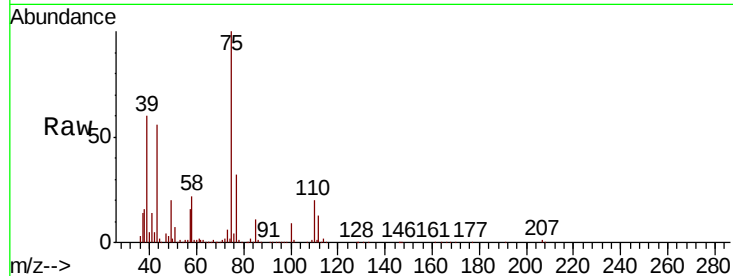
77 31.8 24.2 36.4

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



#54

cis-1,3-Dichloropropene

Concen: 65.339 ug/l

RT: 7.47 min Scan# 694

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

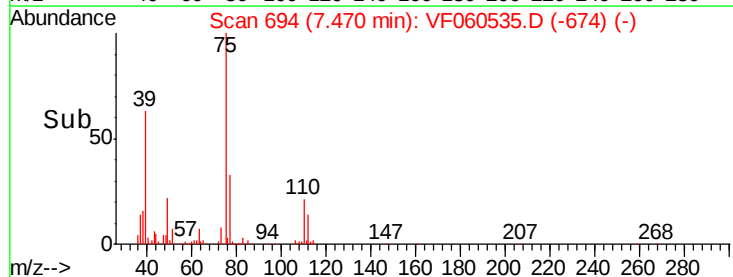
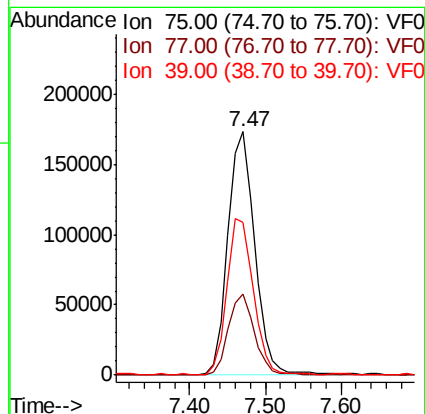
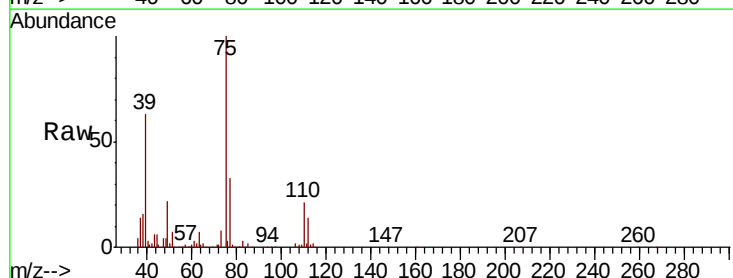
Tgt Ion: 75 Resp: 426684

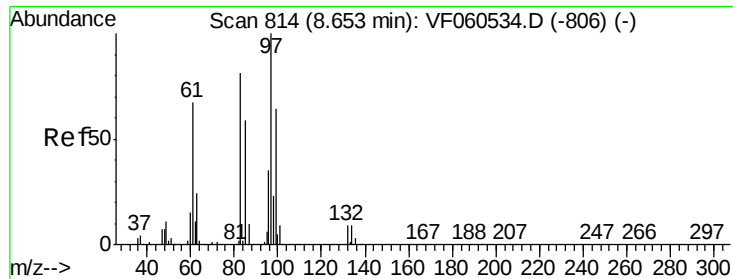
Ion Ratio Lower Upper

75 100

77 33.3 25.7 38.5

39 62.8 51.5 77.3





#55

1,1,2-Trichloroethane

Concen: 65.727 ug/l

RT: 8.65 min Scan# 814

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

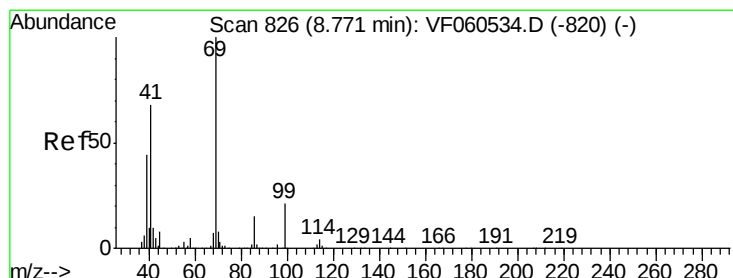
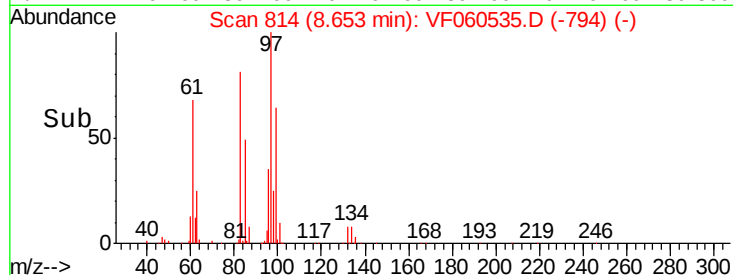
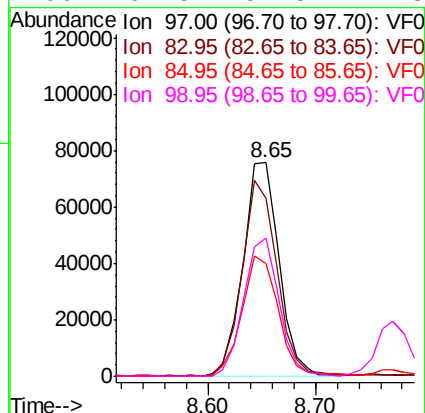
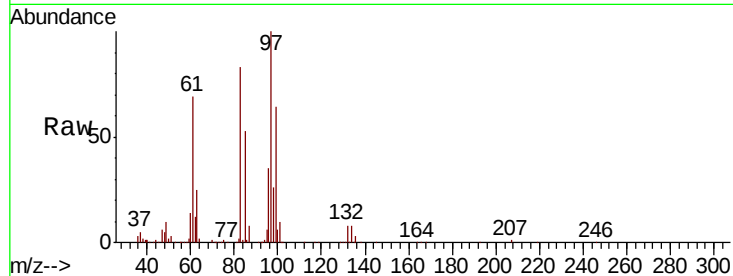
ClientSampleId :

VSTDIC075

Tot Ion:	97	Resp:	176283
Ion	Ratio	Lower	Upper
97	100		
83	83.2	65.3	97.9
85	53.0	47.6	71.4
99	64.5	51.5	77.3

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#56

Ethyl methacrylate

Concen: 68.103 ug/l

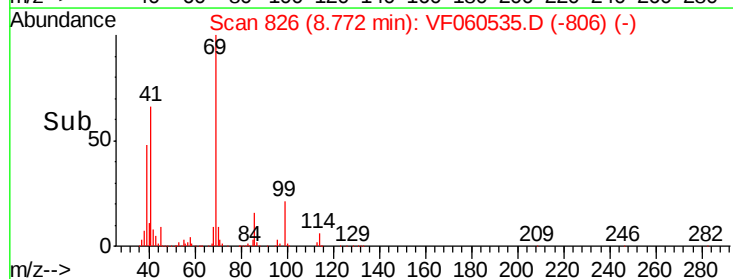
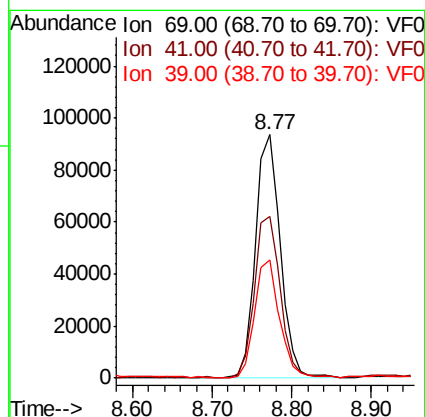
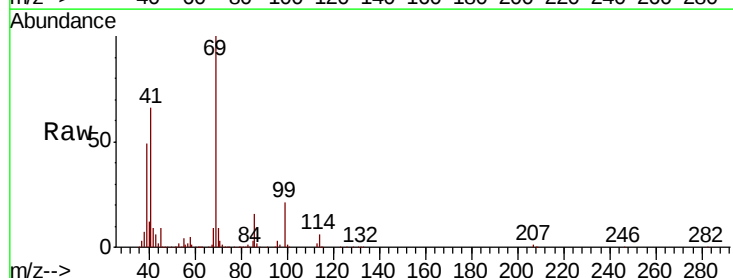
RT: 8.77 min Scan# 826

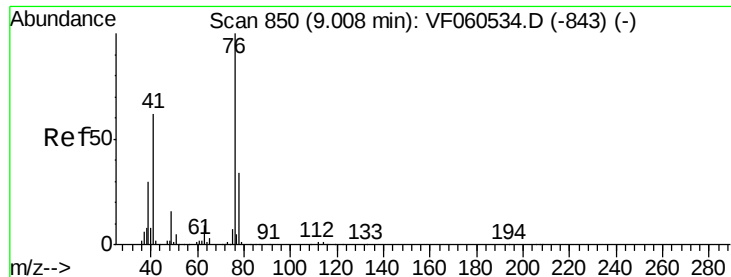
Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion:	69	Resp:	199566
Ion	Ratio	Lower	Upper
69	100		
41	66.3	55.0	82.6
39	48.6	35.1	52.7





#57

1,3-Dichloropropane

Concen: 66.727 ug/l

RT: 9.01 min Scan# 850

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 76 Resp: 316763

Ion Ratio Lower Upper

76 100

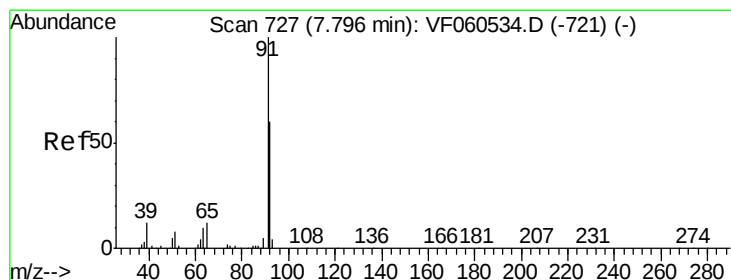
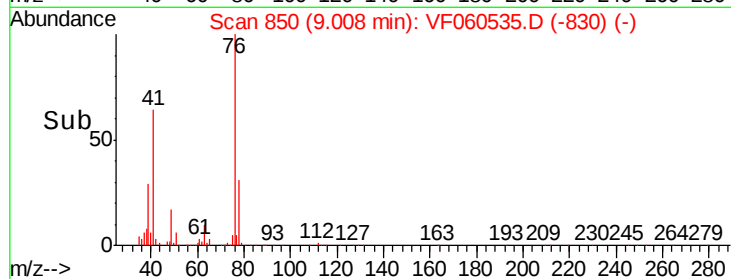
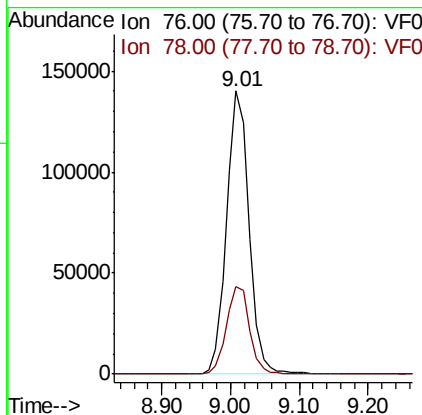
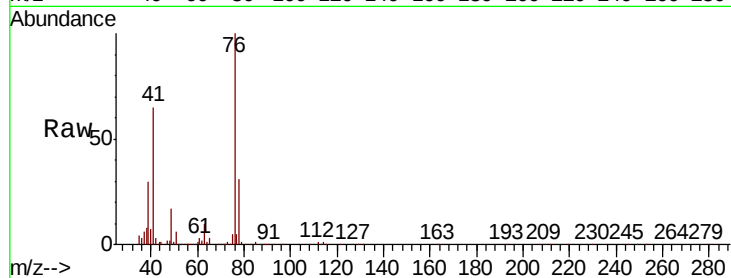
78 30.9 27.3 40.9

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



#58

2-Chloroethyl Vinyl ether

Concen: 286.473 ug/l

RT: 7.79 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF060535.D

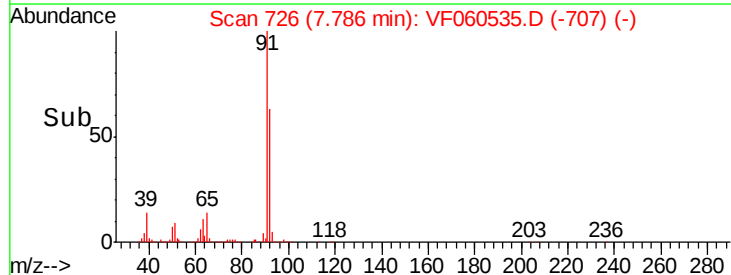
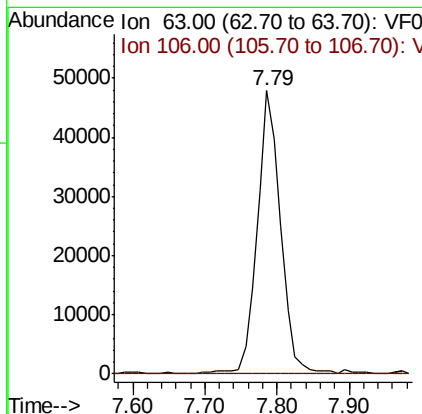
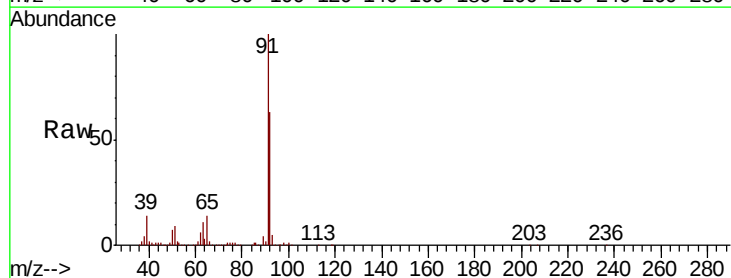
Acq: 29 Oct 2018 18:22

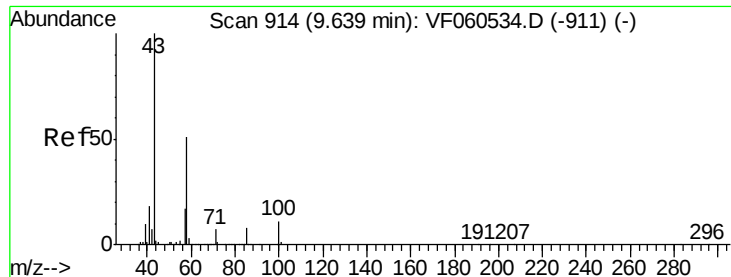
Tgt Ion: 63 Resp: 108334

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





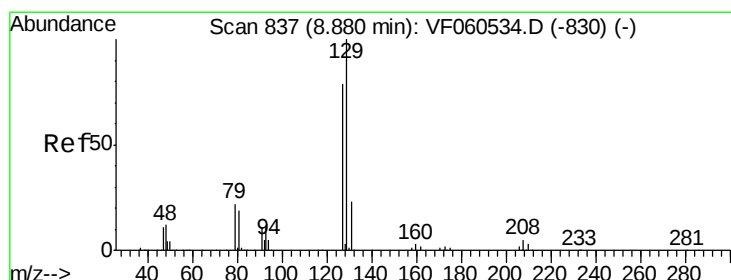
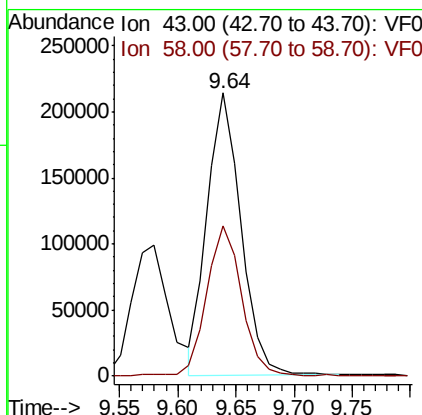
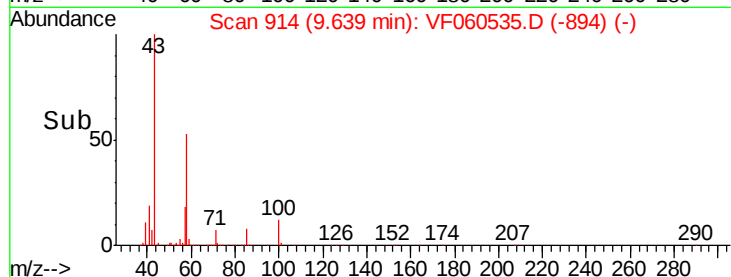
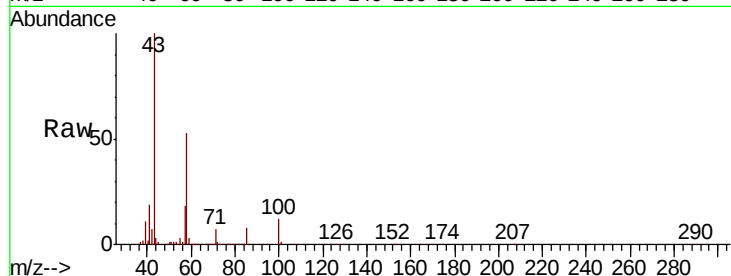
#59
2-Hexanone
Concen: 277.315 ug/l
RT: 9.64 min Scan# 914
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
58	52.9	24.1	72.3

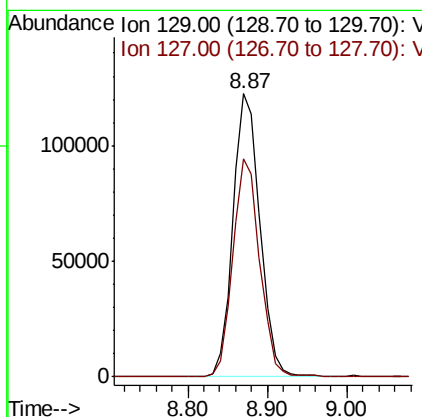
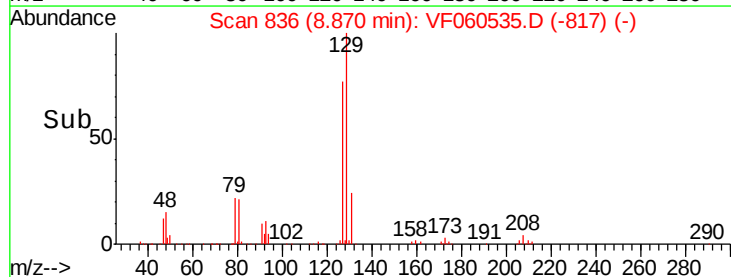
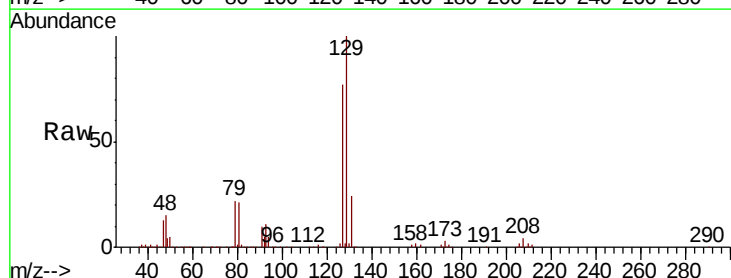
Manual Integrations
APPROVED

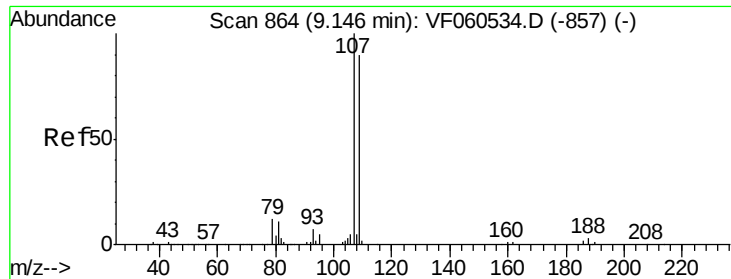
apatel
10/30/2018 2:07:26 PM



#60
Dibromochloromethane
Concen: 58.235 ug/l
RT: 8.87 min Scan# 836
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.6	119.0





#61

1,2-Dibromoethane

Concen: 63.199 ug/l

RT: 9.15 min Scan# 864

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:107 Resp: 200422

Ion Ratio Lower Upper

107 100

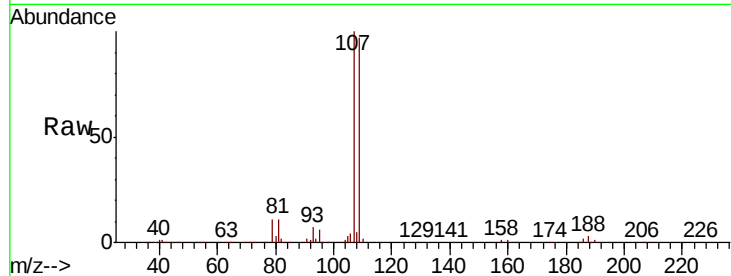
109 97.2 72.2 108.2

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.15

100000

80000

60000

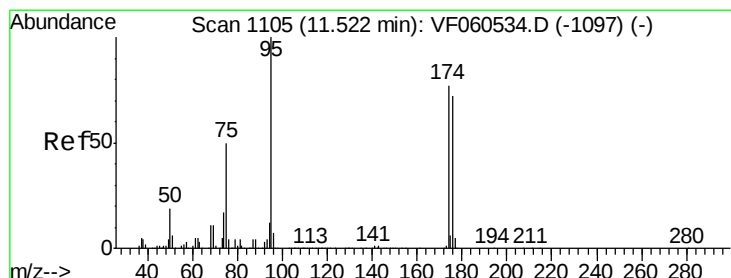
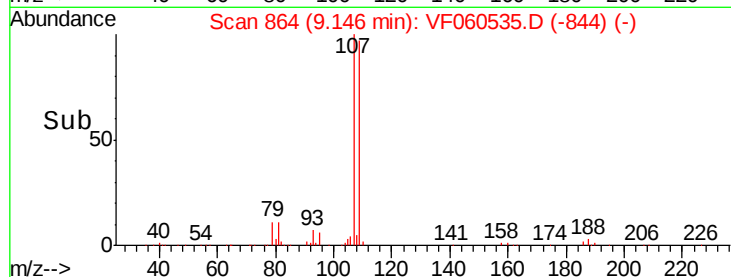
40000

20000

0

Time-->

9.10 9.20 9.30



#62

4-Bromofluorobenzene

Concen: 57.176 ug/l

RT: 11.52 min Scan# 1105

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

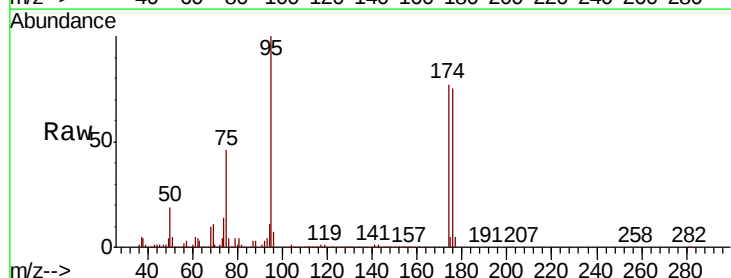
Tgt Ion: 95 Resp: 396502

Ion Ratio Lower Upper

95 100

174 76.9 0.0 153.8

176 74.7 0.0 143.6



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

300000

250000

200000

150000

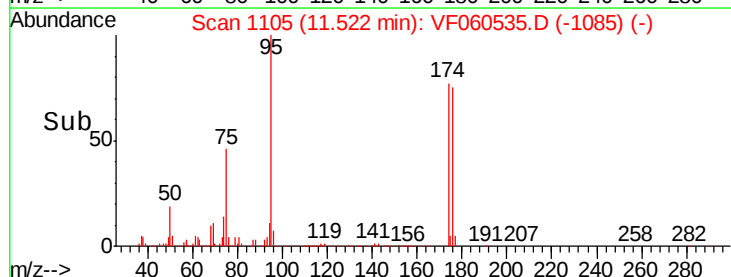
100000

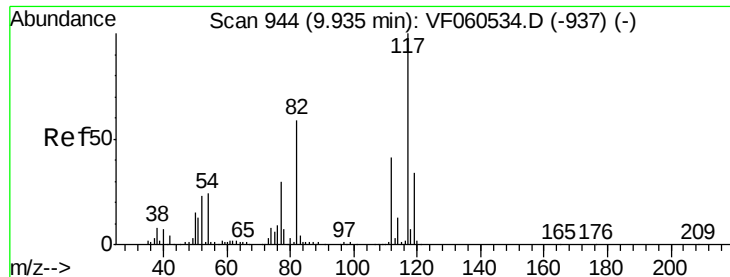
50000

0

Time-->

11.40 11.50 11.60 11.70





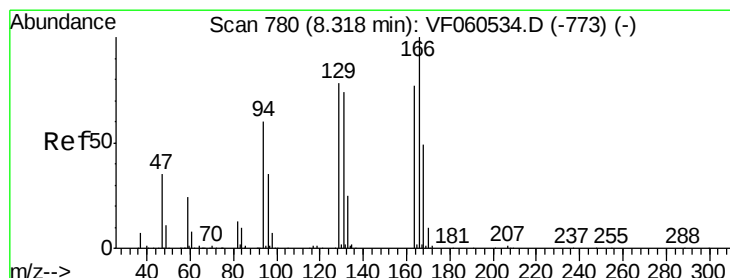
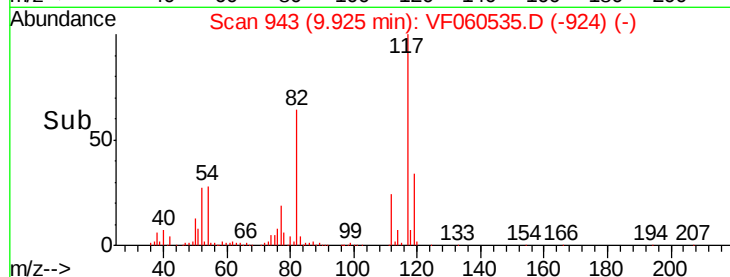
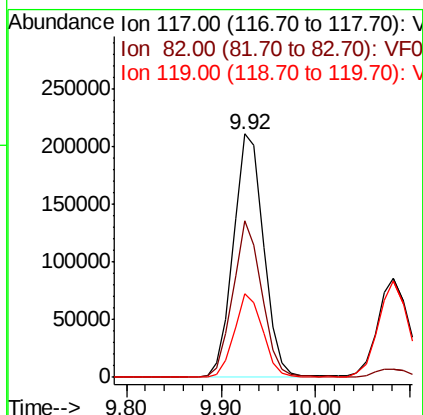
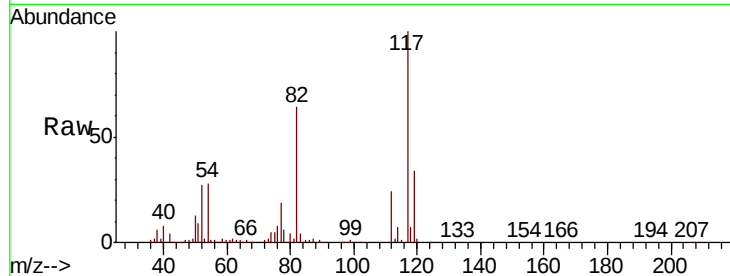
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.3	47.6	71.4
119	34.3	27.3	40.9

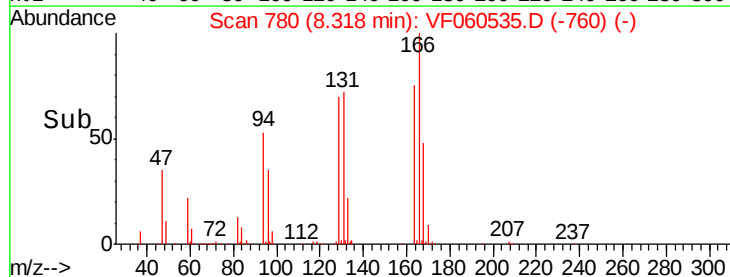
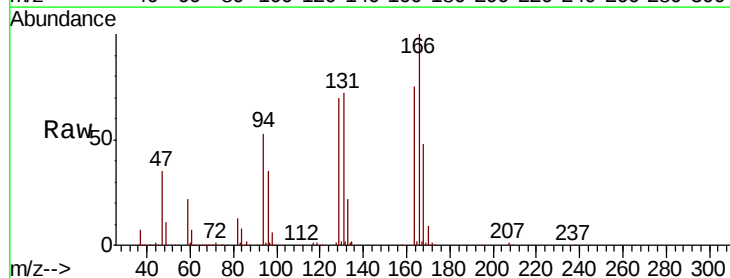
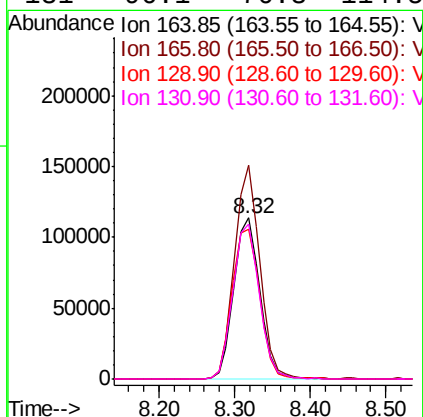
Manual Integrations
APPROVED

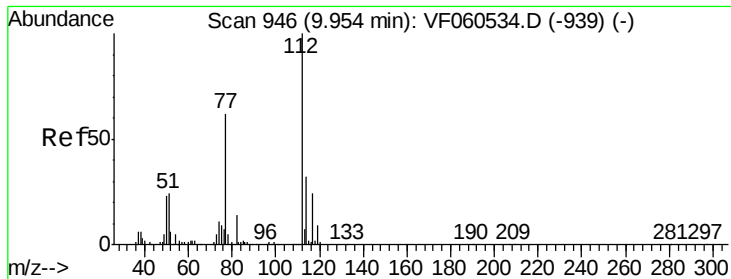
apatel
10/30/2018 2:07:26 PM



#64
Tetrachloroethene
Concen: 66.686 ug/l
RT: 8.32 min Scan# 780
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.6	103.4	155.2
129	93.3	80.7	121.1
131	96.1	76.3	114.5





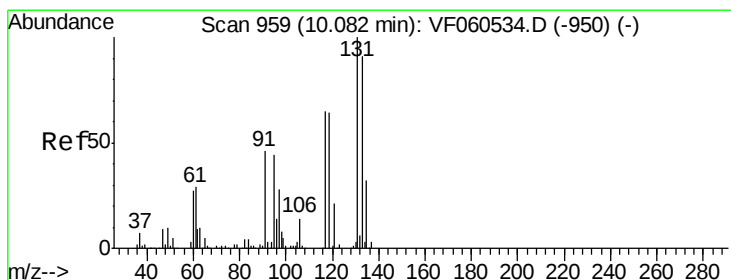
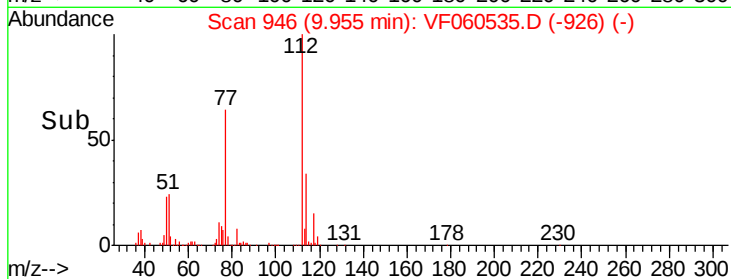
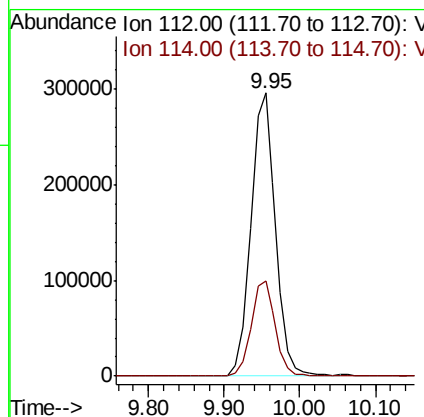
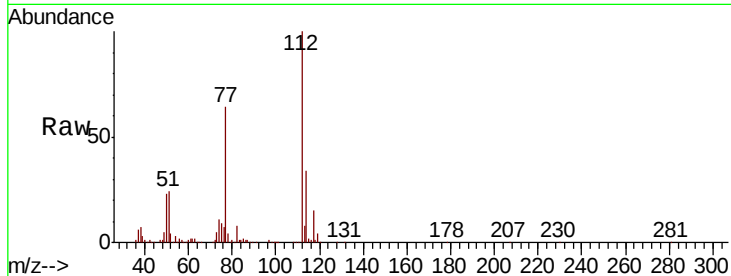
#65
Chlorobenzene
Concen: 66.613 ug/l
RT: 9.95 min Scan# 946
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.6	25.5	38.3

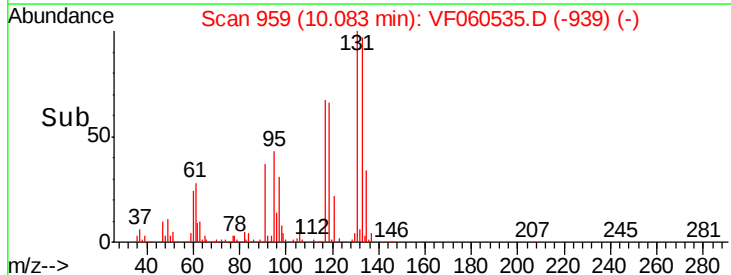
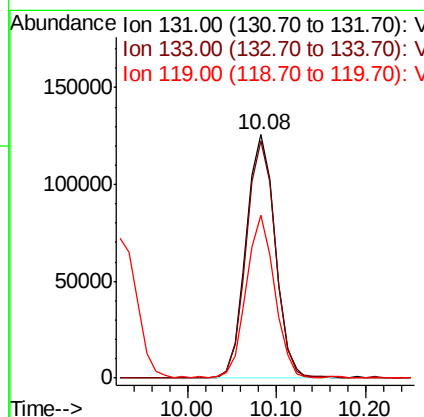
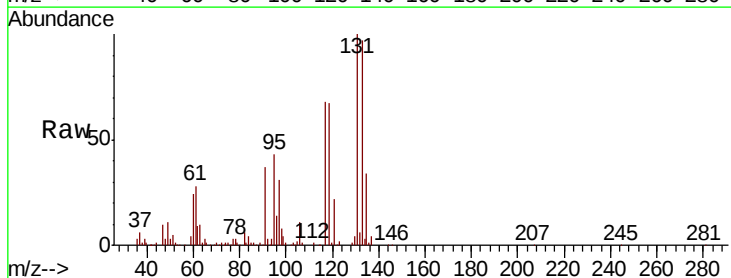
Manual Integrations
APPROVED

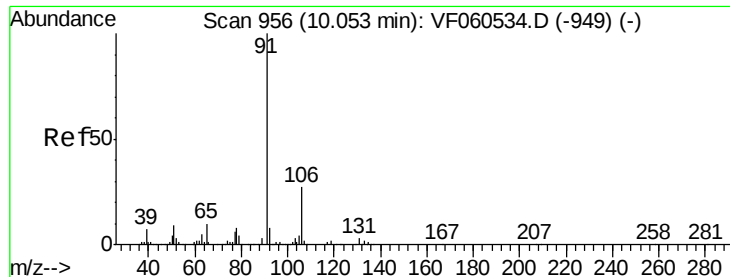
apatel
10/30/2018 2:07:26 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 57.022 ug/l
RT: 10.08 min Scan# 959
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.3	45.8	137.3
119	67.0	32.4	97.0





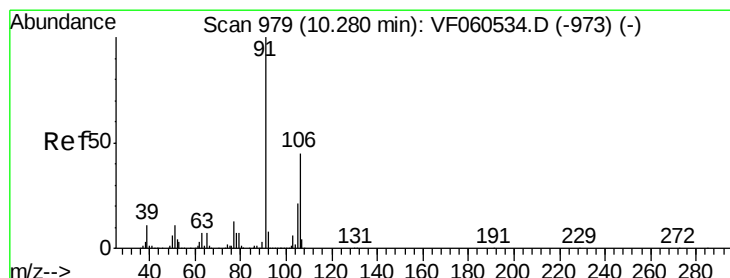
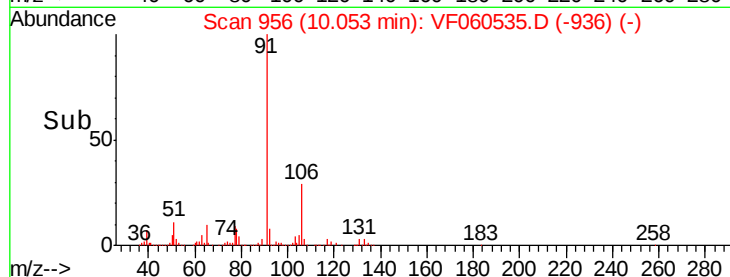
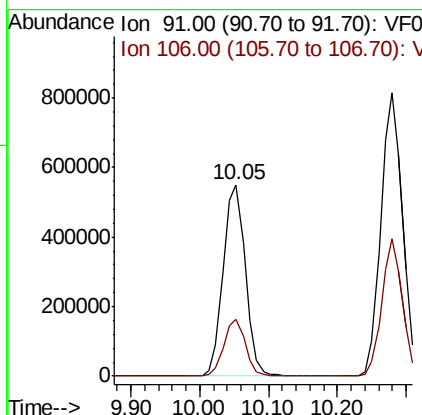
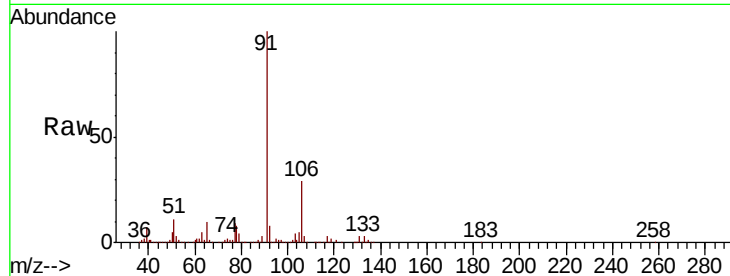
#67
Ethyl Benzene
Concen: 61.583 ug/l
RT: 10.05 min Scan# 956
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 91 Resp: 1237446
Ion Ratio Lower Upper
91 100
106 29.5 21.9 32.9

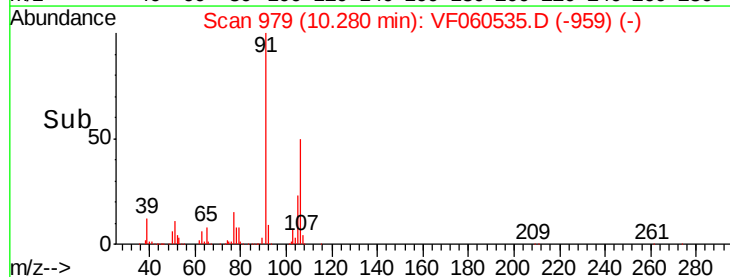
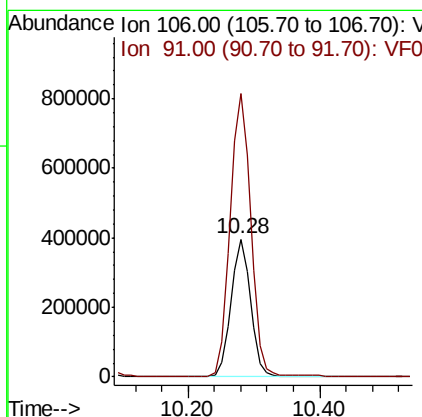
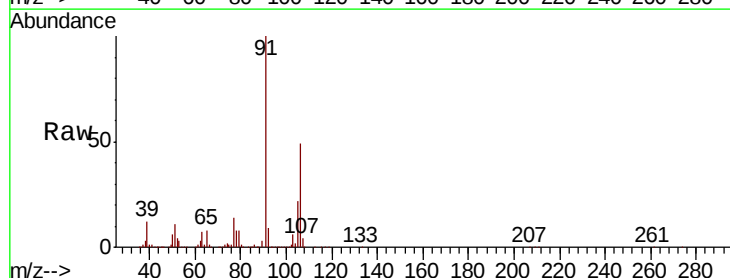
Manual Integrations
APPROVED

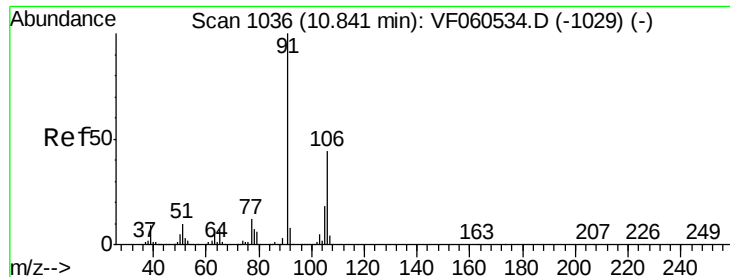
apatel
10/30/2018 2:07:26 PM



#68
m/p-Xylenes
Concen: 131.050 ug/l
RT: 10.28 min Scan# 979
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion: 106 Resp: 833697
Ion Ratio Lower Upper
106 100
91 205.9 176.2 264.2





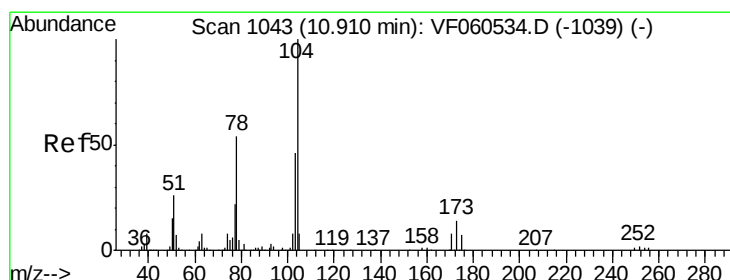
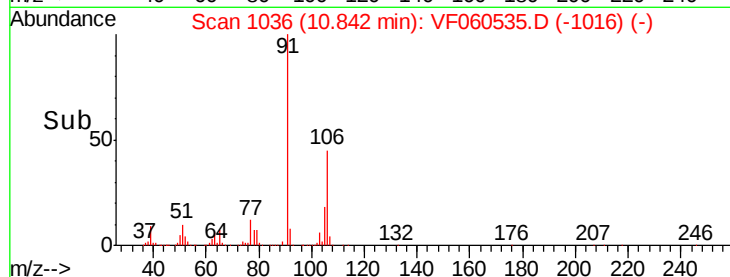
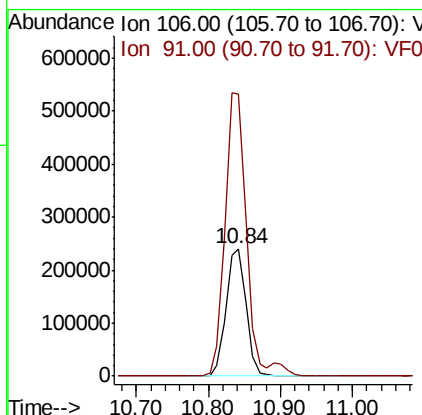
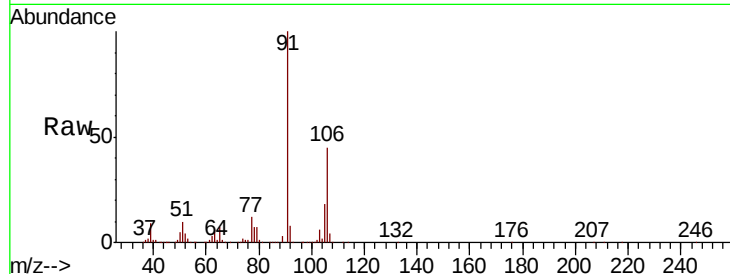
#69
o-Xylene
Concen: 64.720 ug/l
RT: 10.84 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	221.6	112.9	338.8		

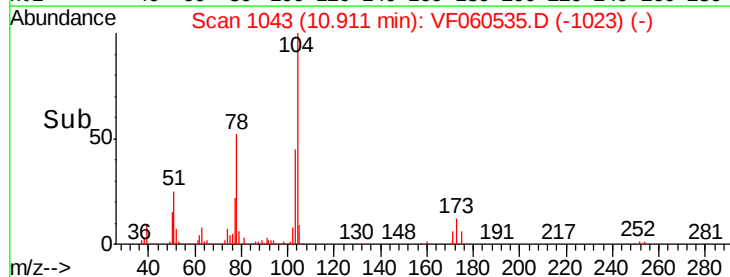
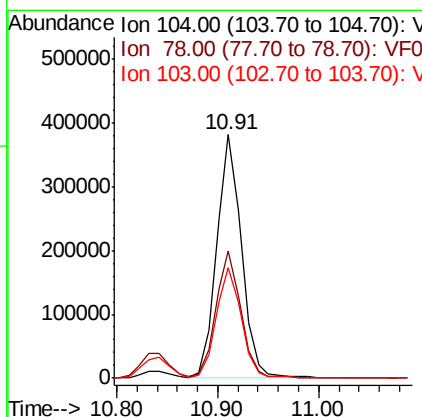
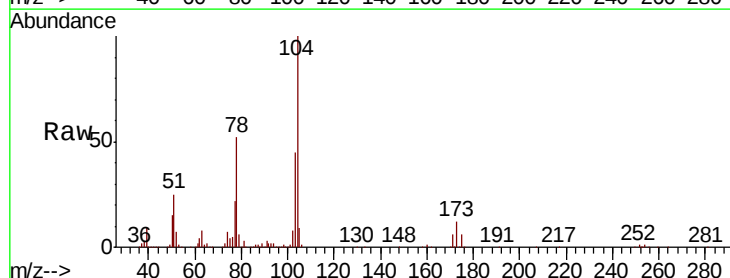
Manual Integrations
APPROVED

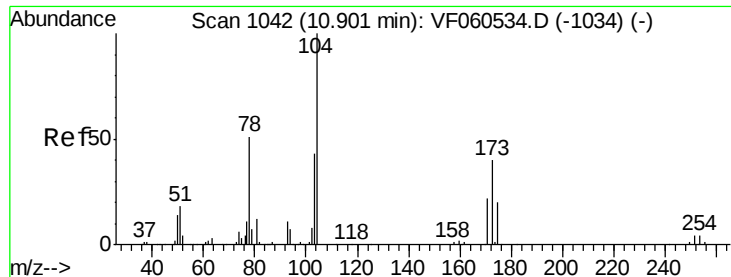
apatel
10/30/2018 2:07:26 PM



#70
Styrene
Concen: 64.446 ug/l
RT: 10.91 min Scan# 1043
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	52.0	43.4	65.2		
103	45.4	36.9	55.3		





#71

Bromoform

Concen: 55.553 ug/l

RT: 10.90 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

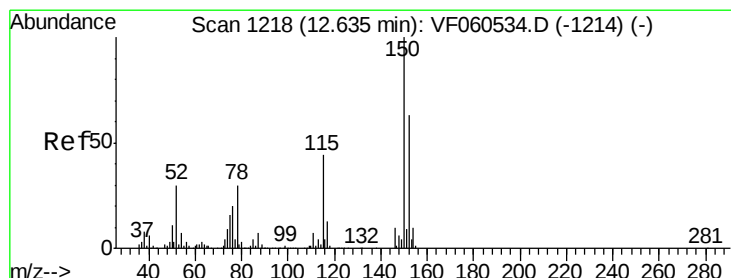
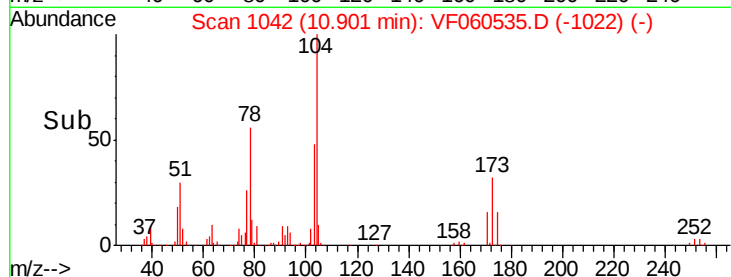
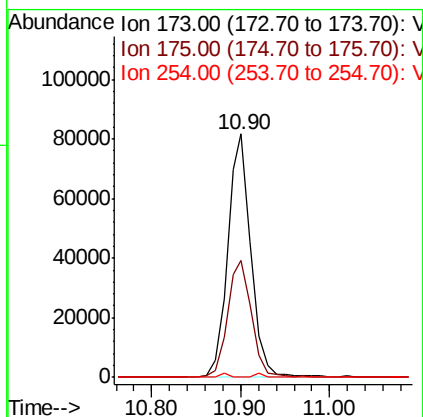
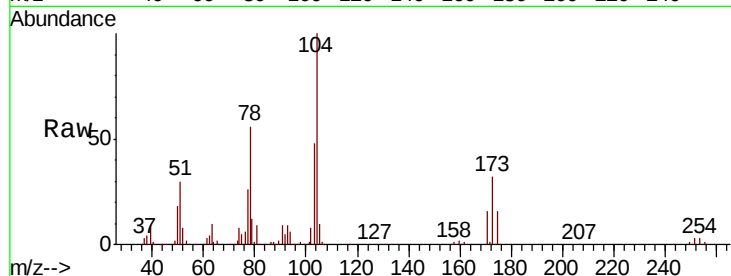
ClientSampleId :

VSTDIC075

Tot Ion	Ion	Ratio	Lower	Upper
173	100			
175	48.2	25.7	77.0	
254	0.1	7.8	11.6	

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

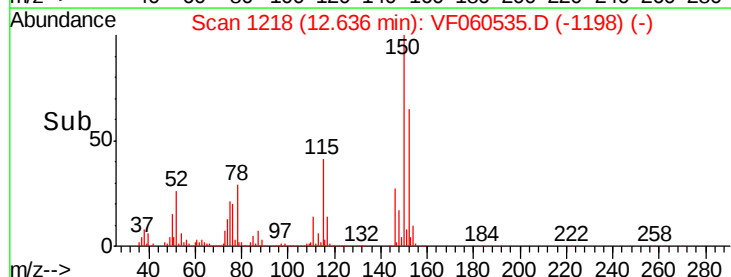
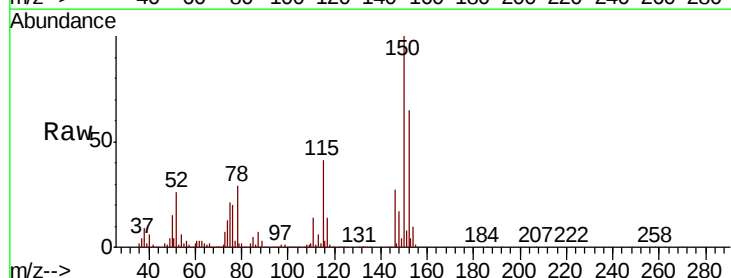
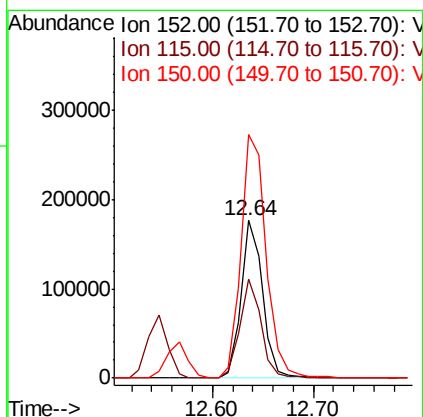
RT: 12.64 min Scan# 1218

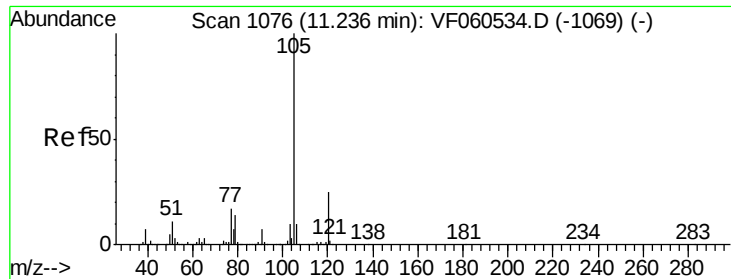
Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion	Ion	Ratio	Lower	Upper
152	100			
115	63.2	34.7	104.1	
150	154.6	0.0	318.4	





#73

Isopropylbenzene

Concen: 67.488 ug/l

RT: 11.24 min Scan# 1076

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 1401680

Ion Ratio Lower Upper

105 100

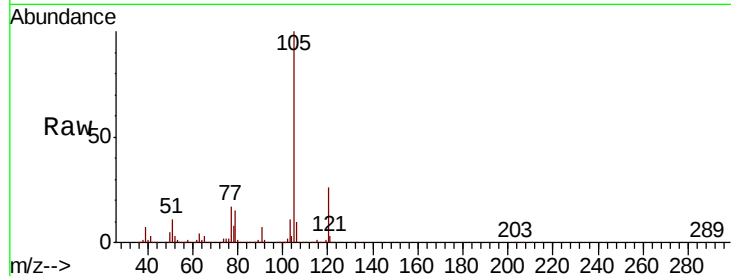
120 26.0 12.3 36.8

Manual Integrations

APPROVED

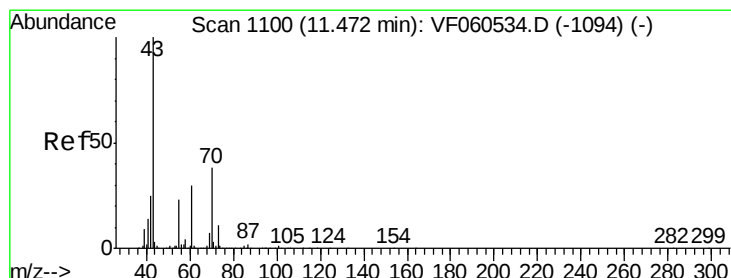
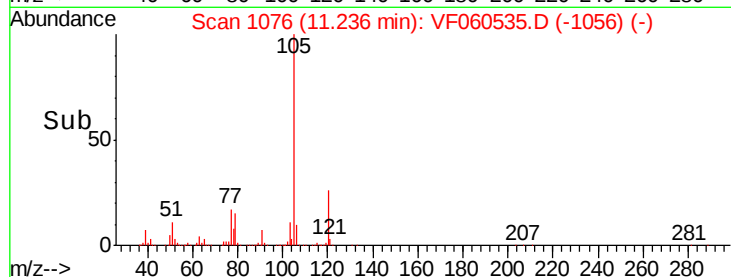
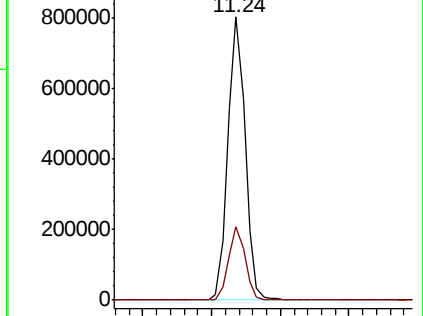
apatel

10/30/2018 2:07:26 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 75.202 ug/l

RT: 11.47 min Scan# 1100

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion: 43 Resp: 283581

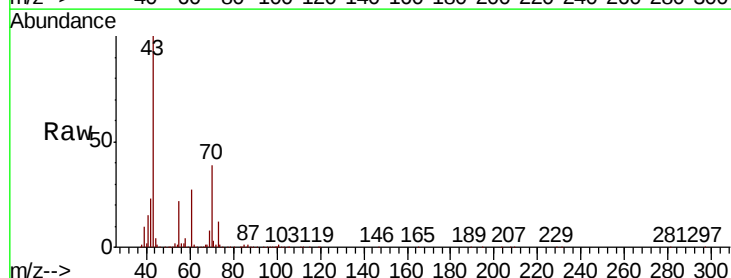
Ion Ratio Lower Upper

43 100

70 38.8 30.8 46.2

55 21.5 18.2 27.4

61 27.1 23.8 35.8

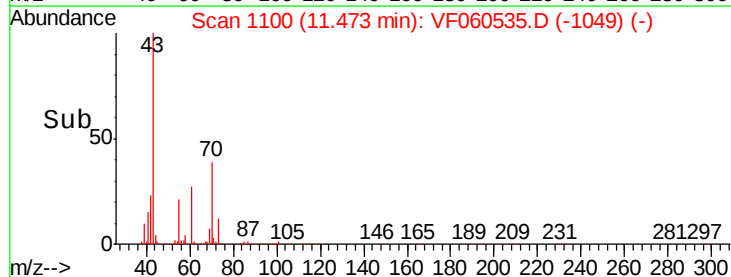
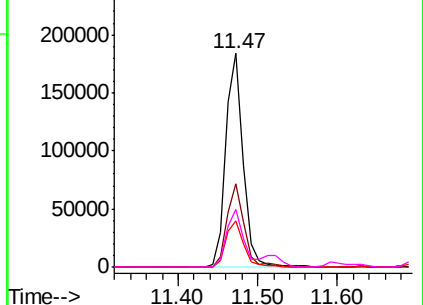


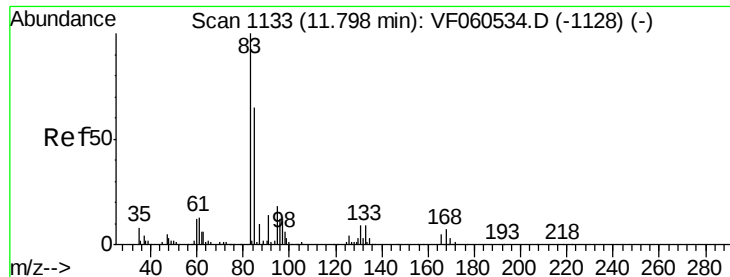
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 73.474 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 83 Resp: 226418

Ion Ratio Lower Upper

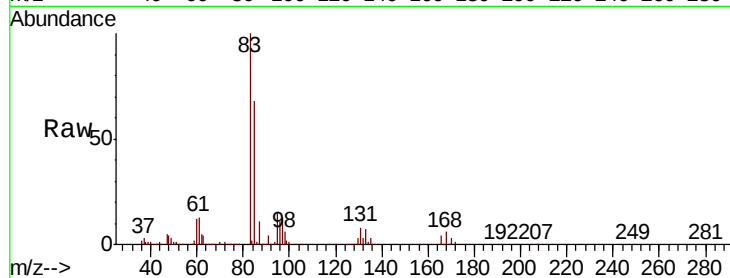
83 100

131 8.2 4.7 14.0

85 67.9 32.4 97.0

Manual Integrations
APPROVED

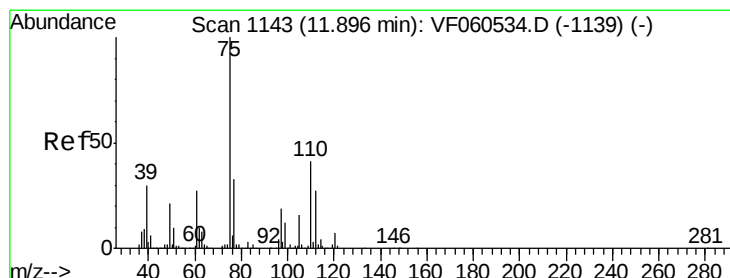
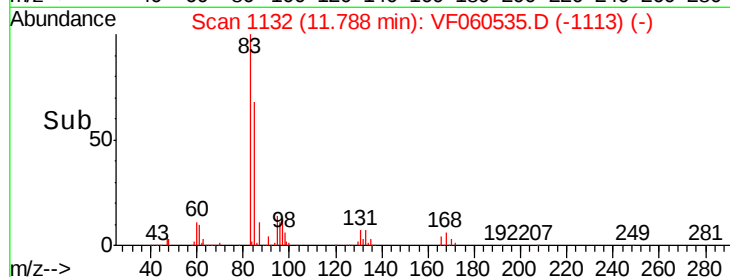
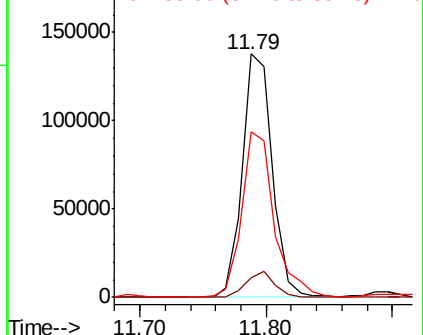
apatel
10/30/2018 2:07:26 PM



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 65.359 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF060535.D

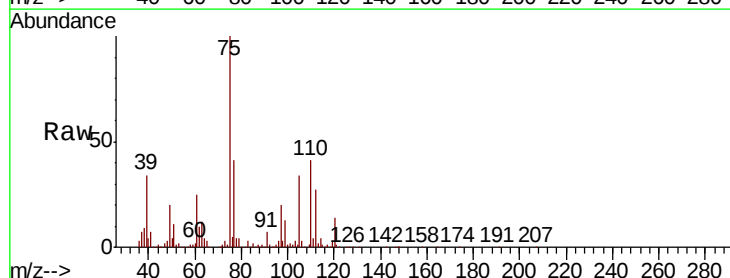
Acq: 29 Oct 2018 18:22

Tgt Ion: 75 Resp: 171138

Ion Ratio Lower Upper

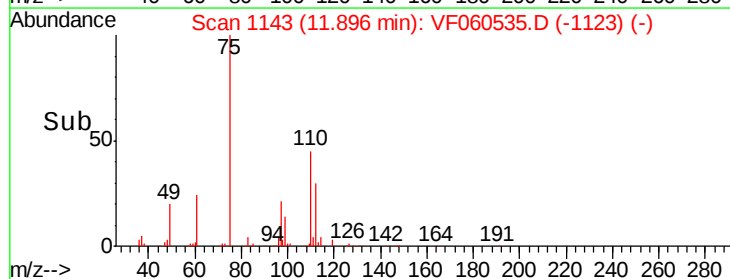
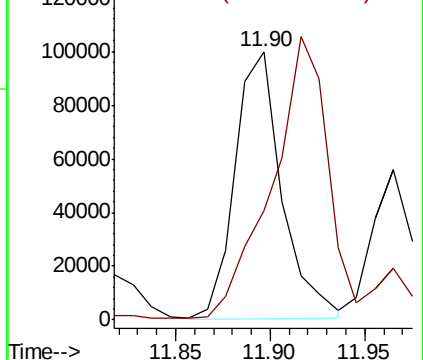
75 100

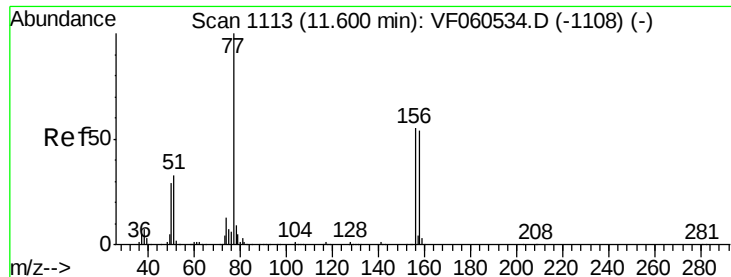
77 40.6 16.7 50.1



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 71.436 ug/l

RT: 11.60 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

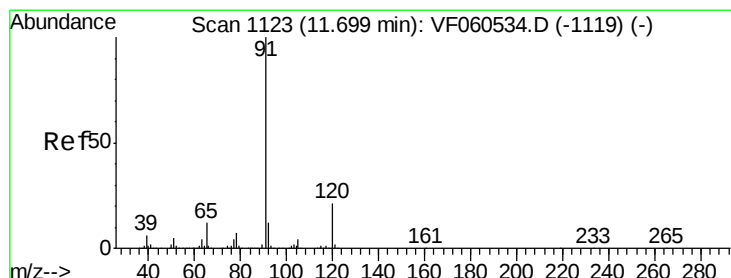
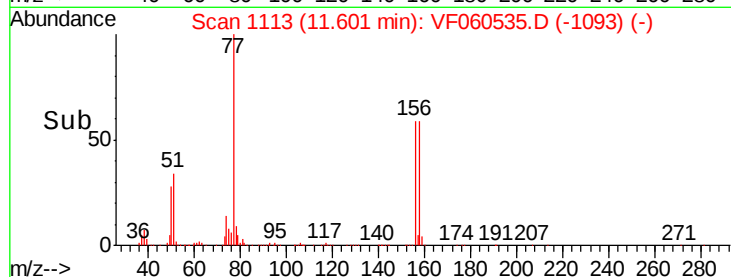
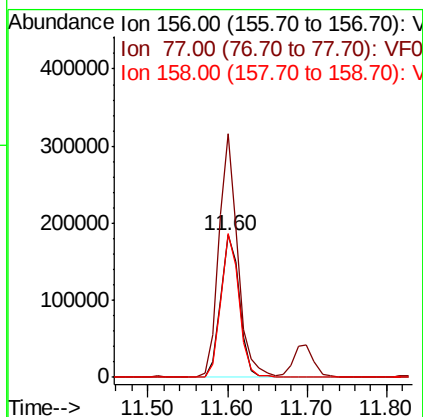
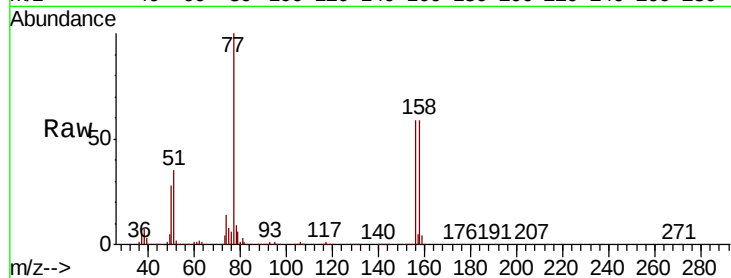
ClientSampleId :

VSTDIC075

Tot Ion	Ion	Ratio	Lower	Upper
312096	156	100		
	77	170.9	91.3	274.1
	158	100.8	49.3	147.9

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#78

n-propylbenzene

Concen: 66.498 ug/l

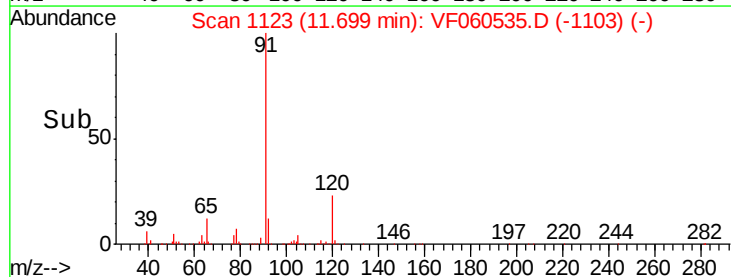
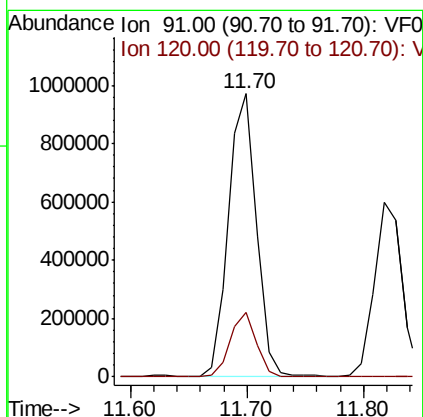
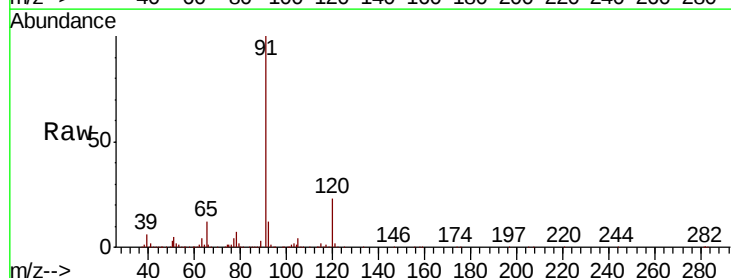
RT: 11.70 min Scan# 1123

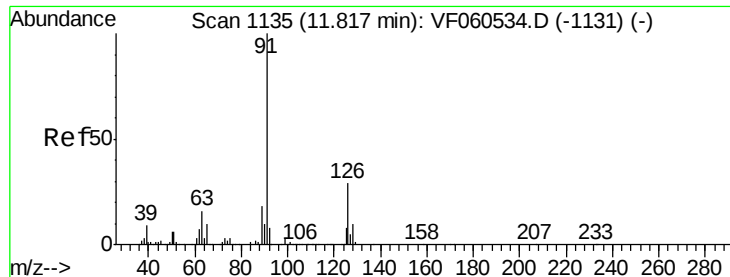
Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion	Ion	Ratio	Lower	Upper
1610511	91	100		
	120	22.6	10.7	32.1





#79

2-Chlorotoluene

Concen: 66.688 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 978555

Ion Ratio Lower Upper

91 100

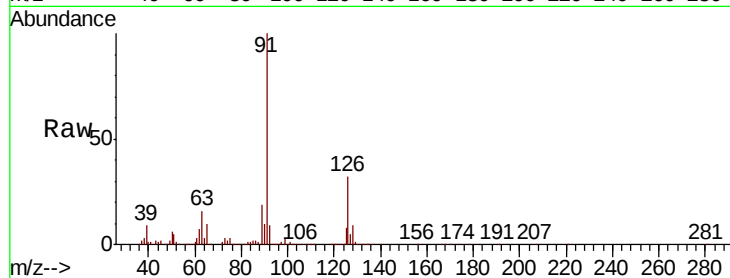
126 31.5 14.2 42.8

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.82

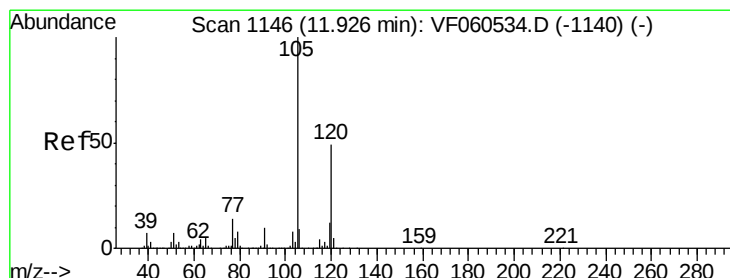
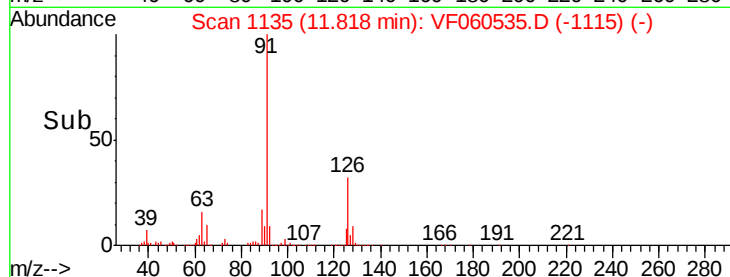
600000

400000

200000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 63.002 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. -0.01 min

Lab File: VF060535.D

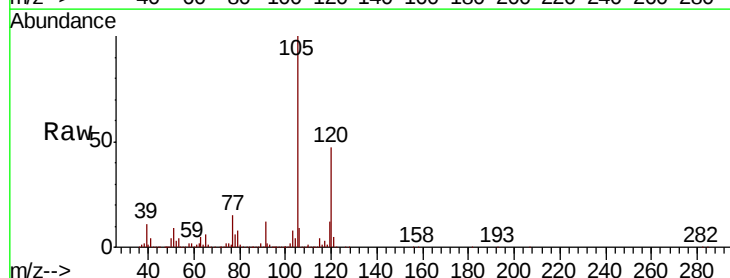
Acq: 29 Oct 2018 18:22

Tgt Ion:105 Resp: 1145318

Ion Ratio Lower Upper

105 100

120 47.2 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.92

800000

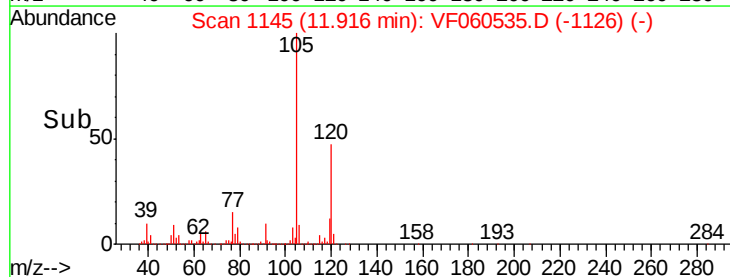
600000

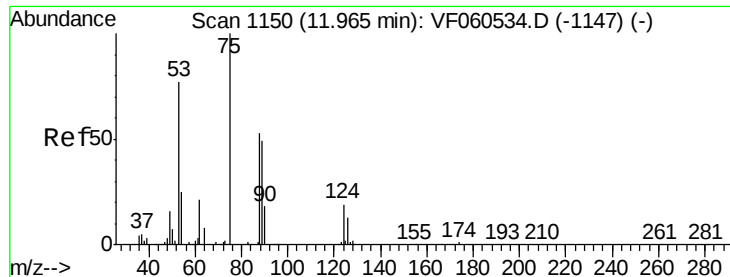
400000

200000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 79.699 ug/l m

RT: 11.97 min Scan# 1150

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

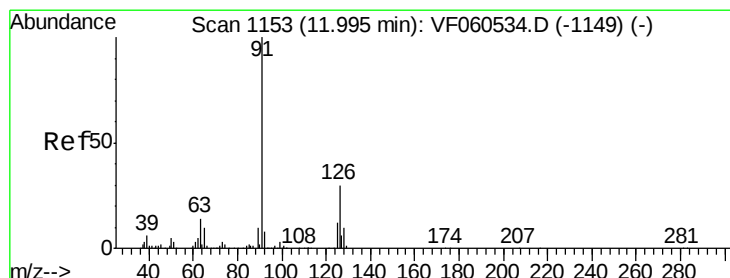
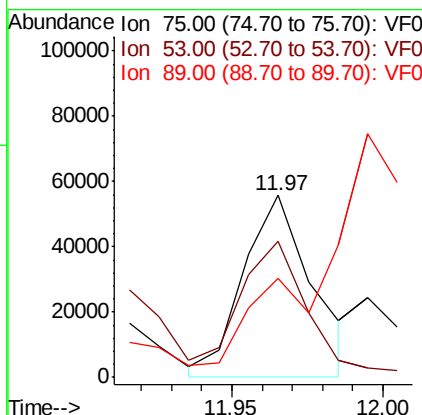
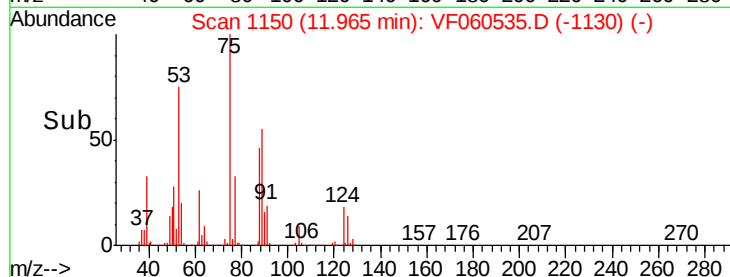
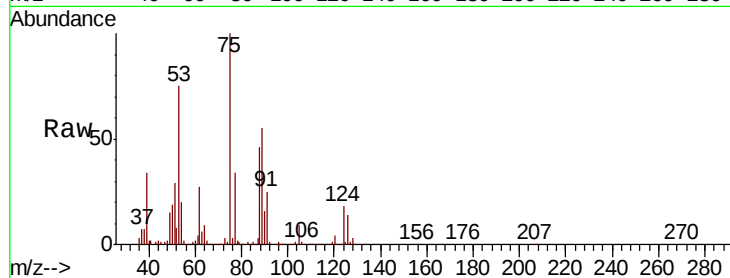
ClientSampleId :

VSTDIC075

Tot Ion:	75	Resp:	87648
Ion	Ratio	Lower	Upper
75	100		
53	75.1	65.8	98.6
89	54.6	44.0	66.0

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#82

4-Chlorotoluene

Concen: 65.522 ug/l

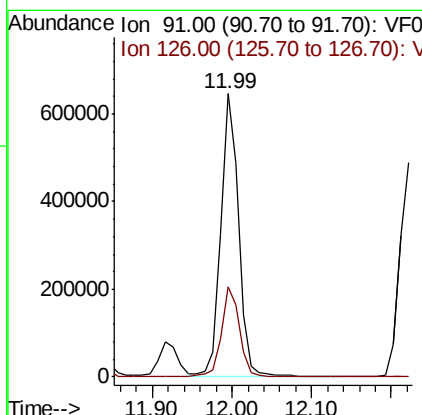
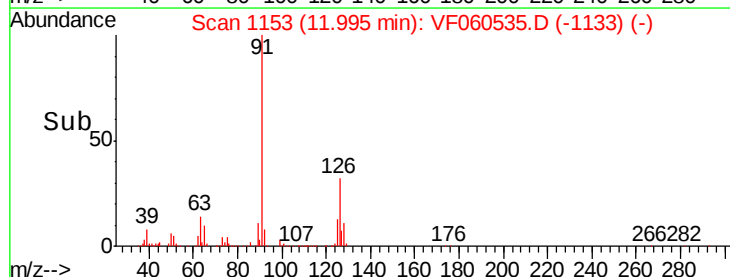
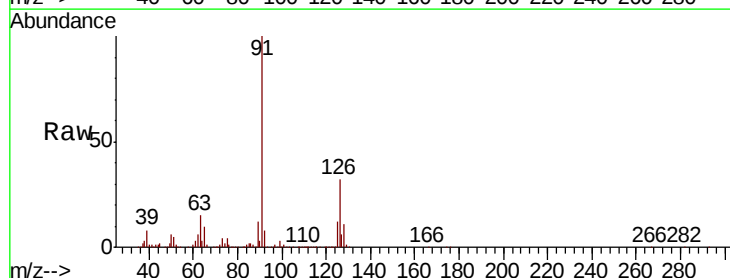
RT: 11.99 min Scan# 1153

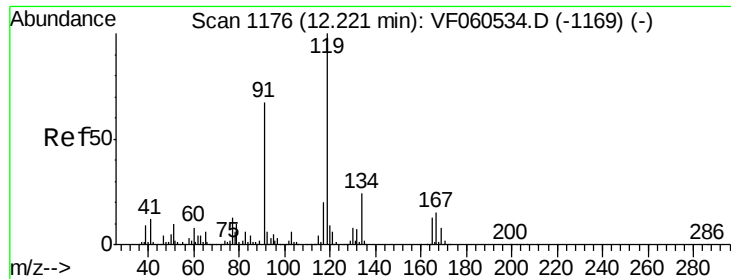
Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Tgt Ion:	91	Resp:	1017878
Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.1	45.3





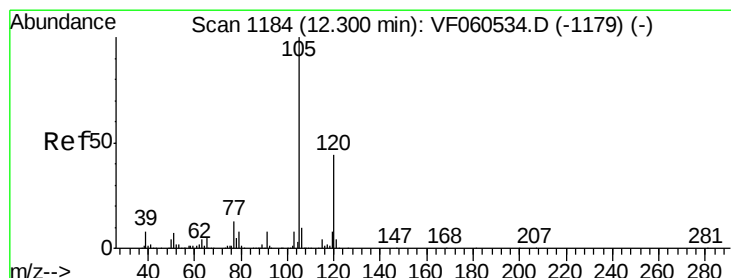
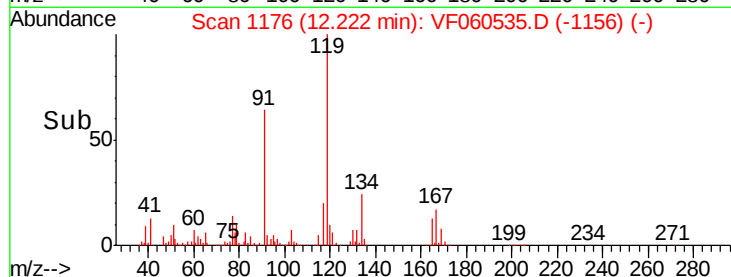
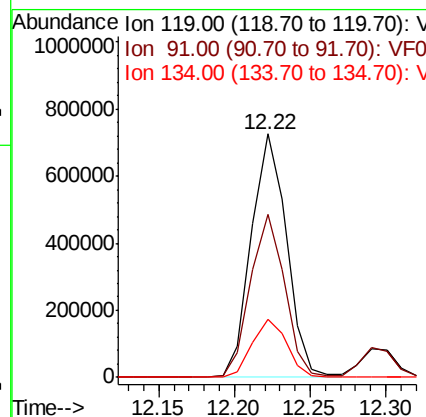
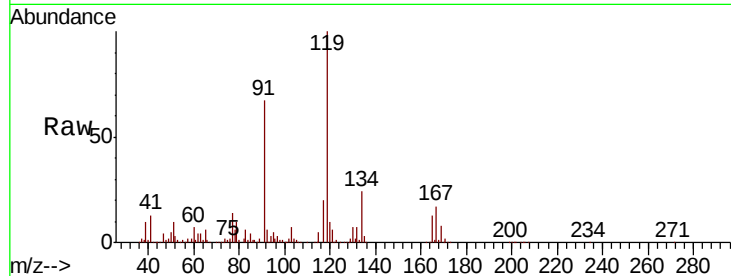
#83
tert-Butylbenzene
Concen: 65.455 ug/l
RT: 12.22 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.2	33.6	100.8
134	23.8	12.0	36.0

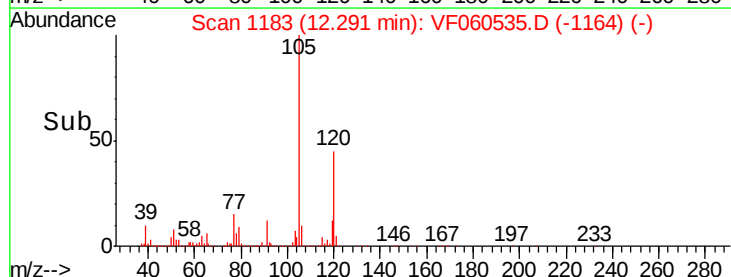
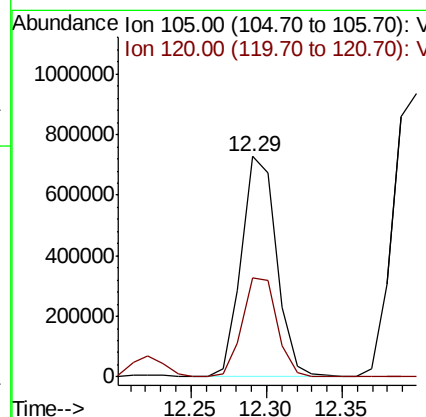
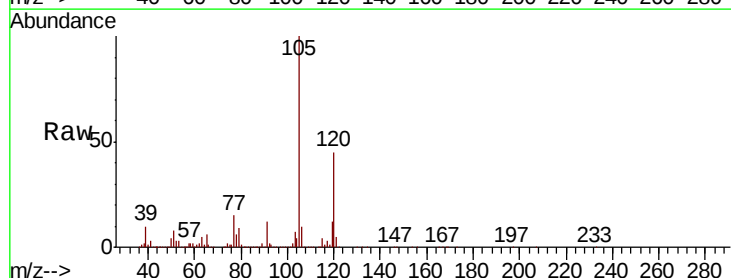
Manual Integrations
APPROVED

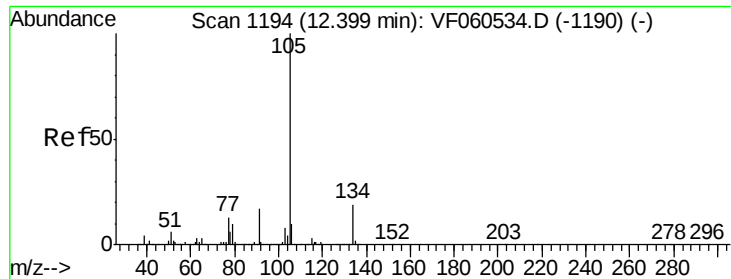
apatel
10/30/2018 2:07:26 PM



#84
1,2,4-Trimethylbenzene
Concen: 65.449 ug/l
RT: 12.29 min Scan# 1183
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.0	66.0





#85

sec-Butylbenzene

Concen: 62.893 ug/l

RT: 12.40 min Scan# 1194

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 1546118

Ion Ratio Lower Upper

105 100

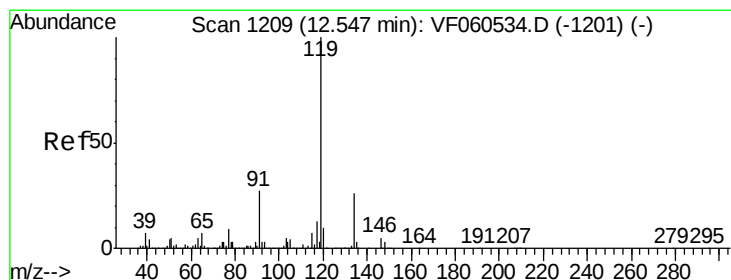
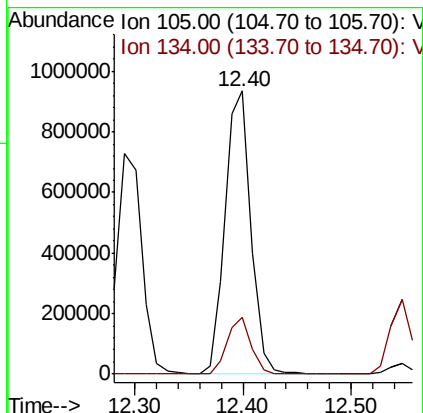
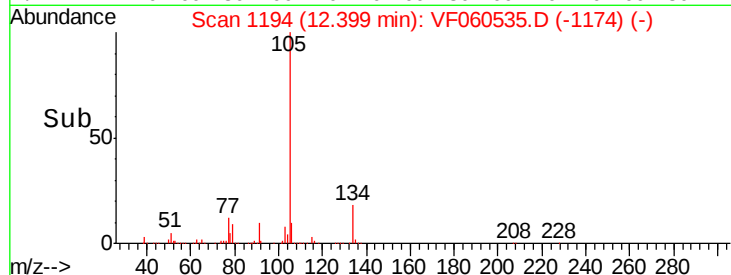
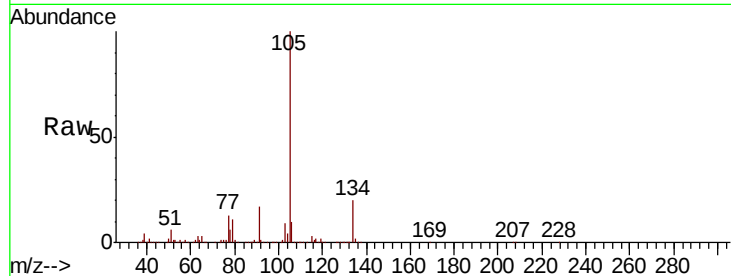
134 19.9 9.6 28.6

Manual Integrations

APPROVED

apatel

10/30/2018 2:07:26 PM



#86

p-Isopropyltoluene

Concen: 62.575 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF060535.D

Acq: 29 Oct 2018 18:22

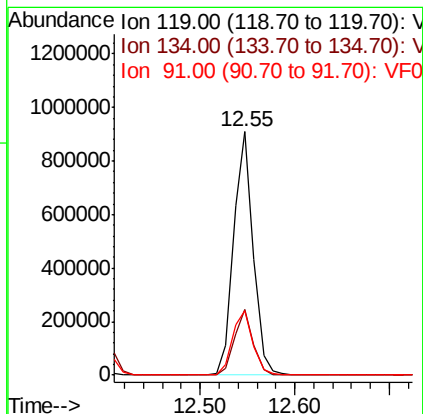
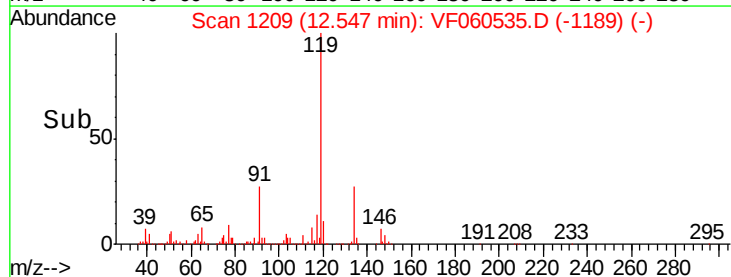
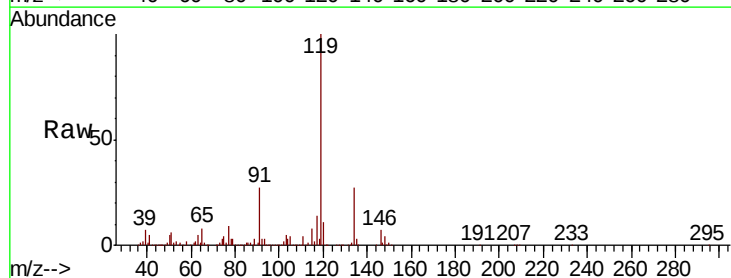
Tgt Ion:119 Resp: 1300939

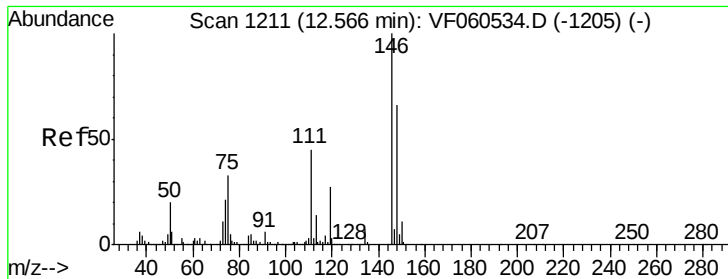
Ion Ratio Lower Upper

119 100

134 27.0 13.1 39.1

91 26.6 13.5 40.4





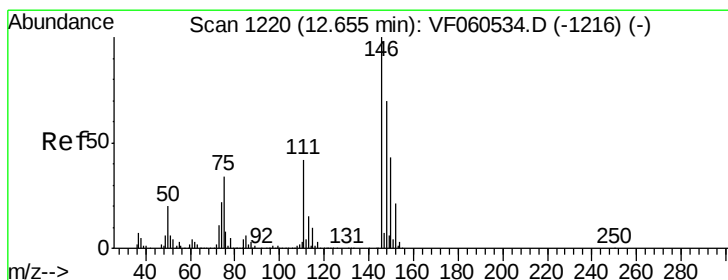
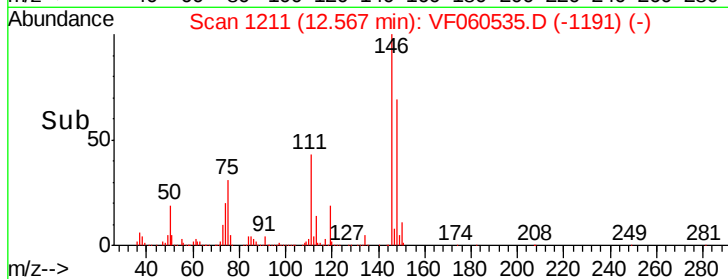
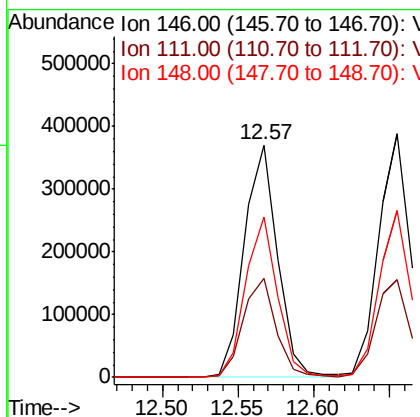
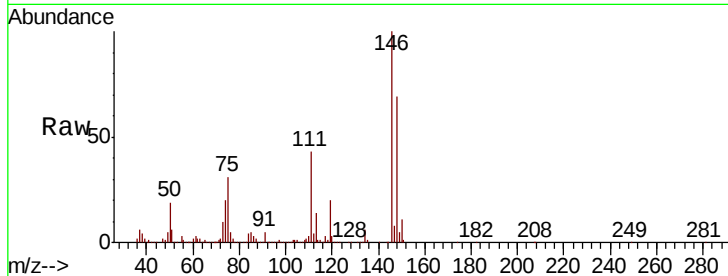
#87
 1,3-Dichlorobenzene
 Concen: 64.522 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	22.6	67.7
148	68.9	33.1	99.3

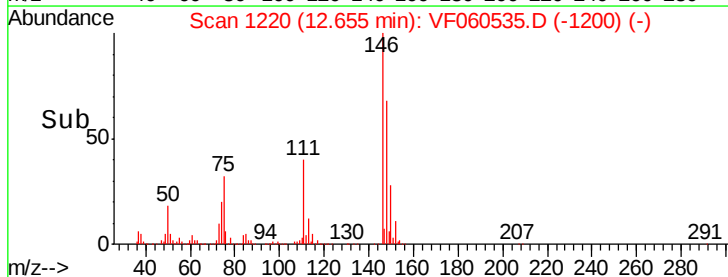
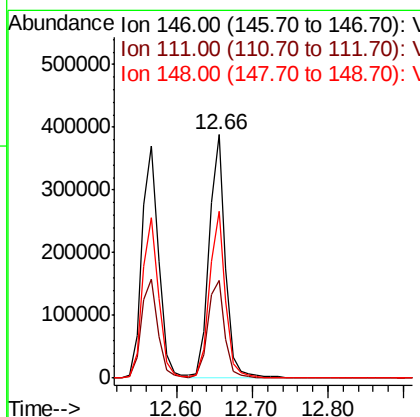
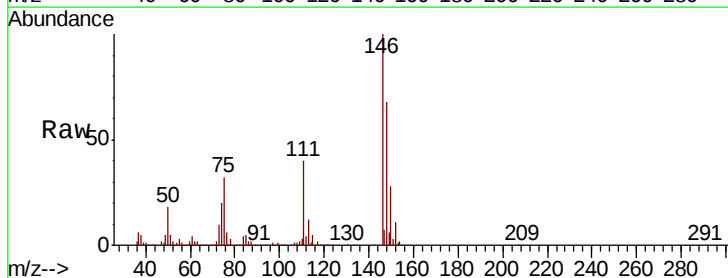
Manual Integrations
 APPROVED

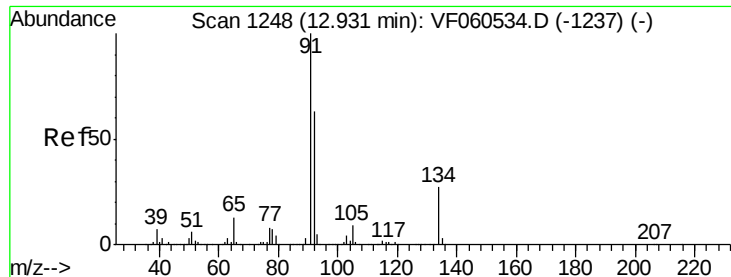
apatel
 10/30/2018 2:07:26 PM



#88
 1,4-Dichlorobenzene
 Concen: 68.828 ug/l
 RT: 12.66 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	21.2	63.6
148	68.4	35.1	105.5





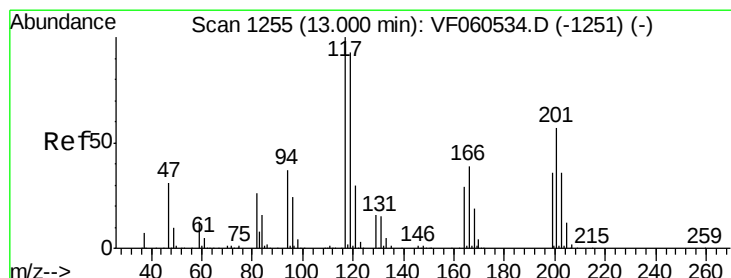
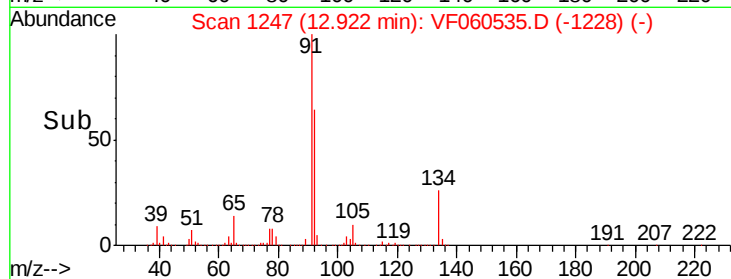
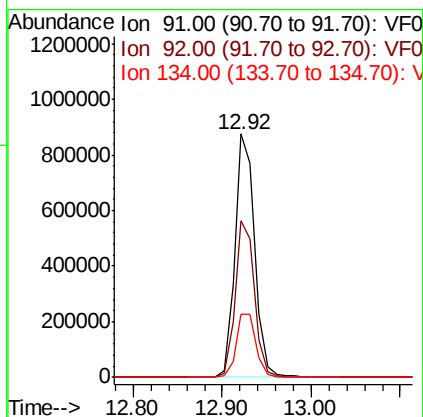
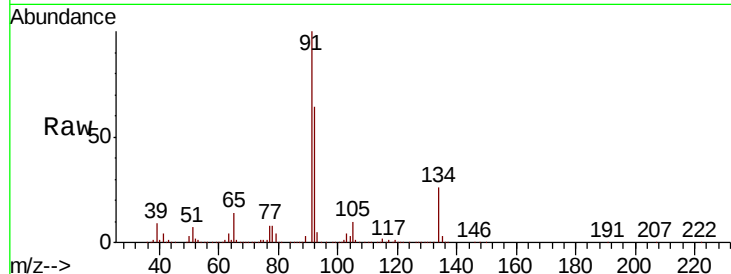
#89
n-Butylbenzene
Concen: 61.289 ug/l
RT: 12.92 min Scan# 1247
Delta R.T. -0.01 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.4	31.3	93.9
134	25.8	13.3	39.8

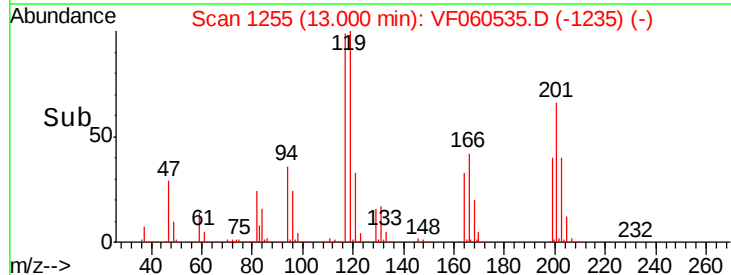
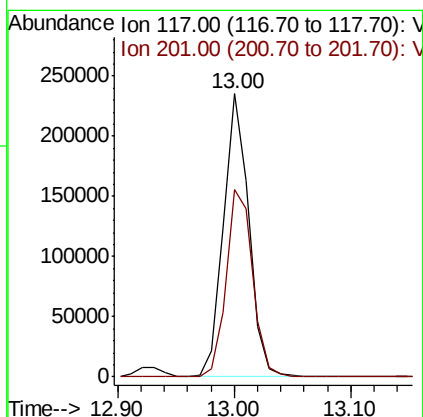
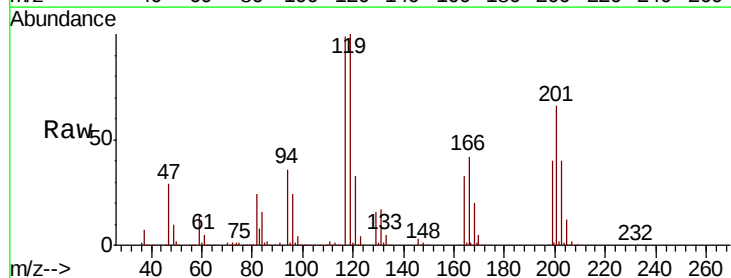
Manual Integrations
APPROVED

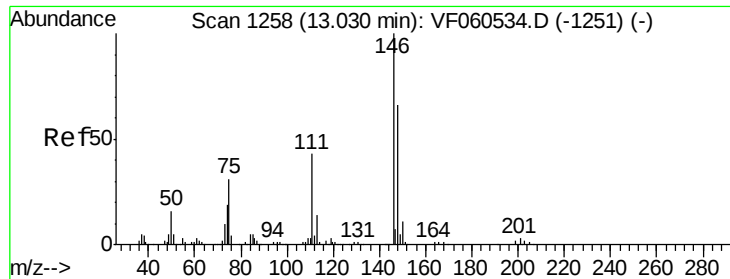
apatel
10/30/2018 2:07:26 PM



#90
Hexachloroethane
Concen: 65.143 ug/l
RT: 13.00 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
117	100		
201	66.4	28.2	84.7





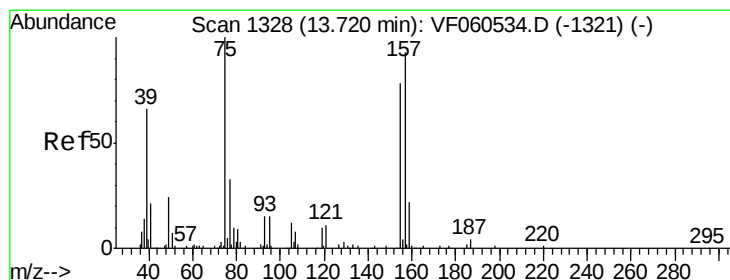
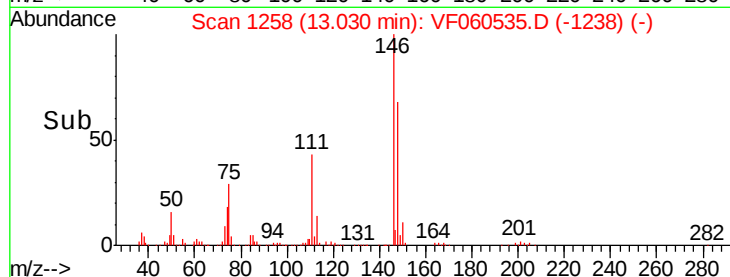
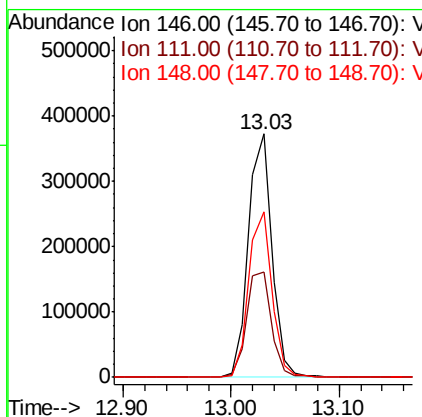
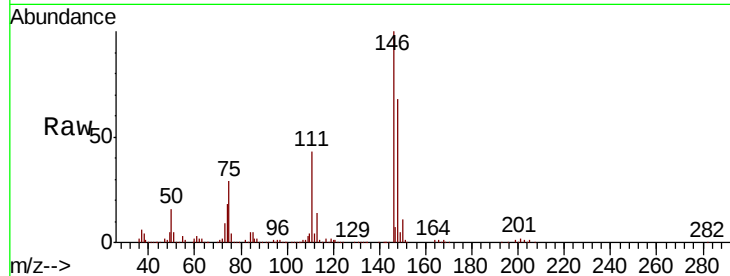
#91
 1,2-Dichlorobenzene
 Concen: 66.747 ug/l
 RT: 13.03 min Scan# 1258
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.5	64.5
148	67.8	33.1	99.5

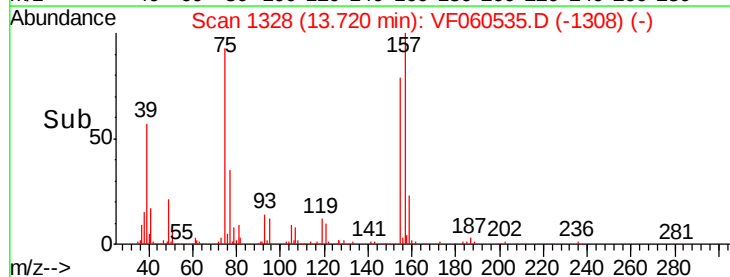
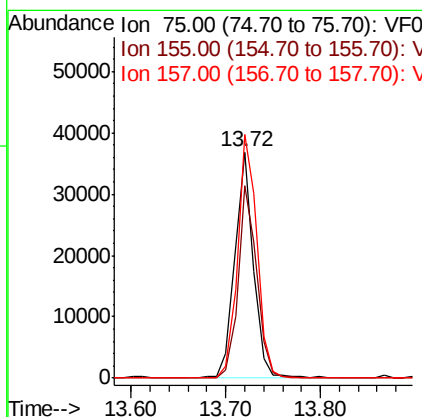
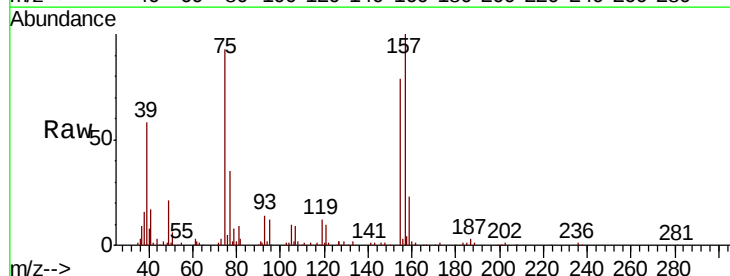
Manual Integrations
 APPROVED

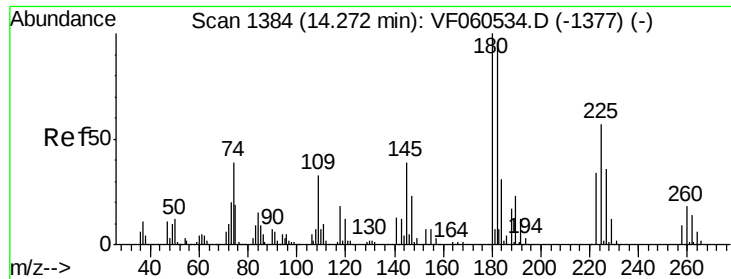
apatel
 10/30/2018 2:07:26 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 67.852 ug/l
 RT: 13.72 min Scan# 1328
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.2	40.8	122.5
157	107.8	46.5	139.5





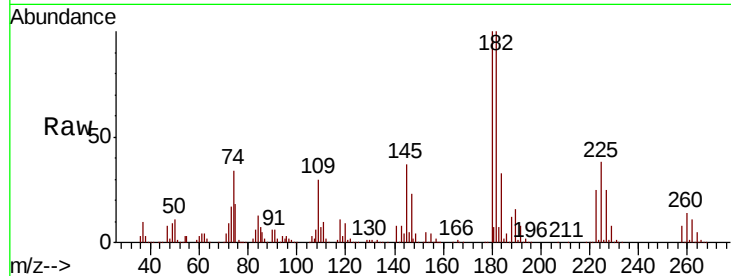
#93
 1,2,4-Trichlorobenzene
 Concen: 61.230 ug/l
 RT: 14.27 min Scan# 1384
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
180	100	415407		
182	100.0	48.1	144.3	
145	37.0	19.5	58.5	

Manual Integrations
 APPROVED

apatel
 10/30/2018 2:07:26 PM

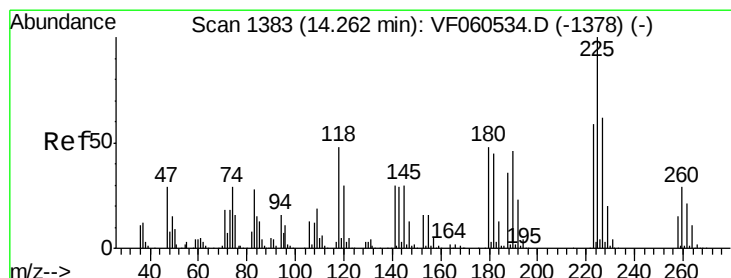
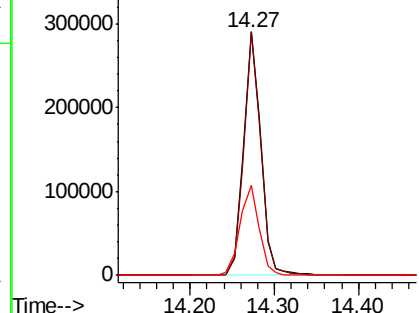
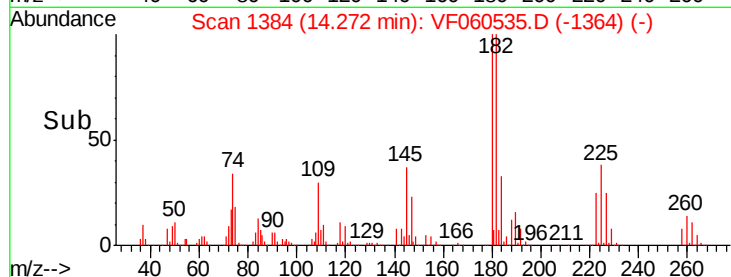


Abundance

Ion 180.00 (179.70 to 180.70): V

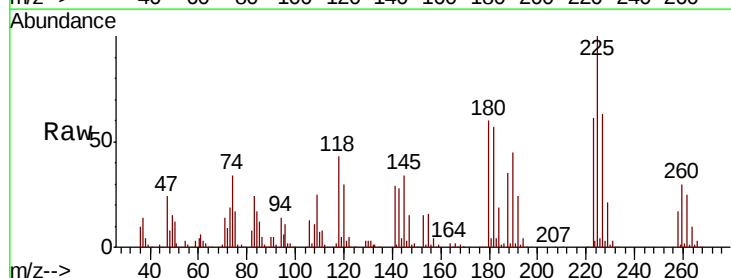
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 61.555 ug/l
 RT: 14.26 min Scan# 1383
 Delta R.T. 0.00 min
 Lab File: VF060535.D
 Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	307741		
223	60.6	29.5	88.5	
227	62.5	31.3	93.8	

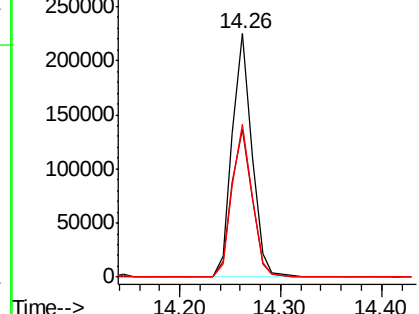
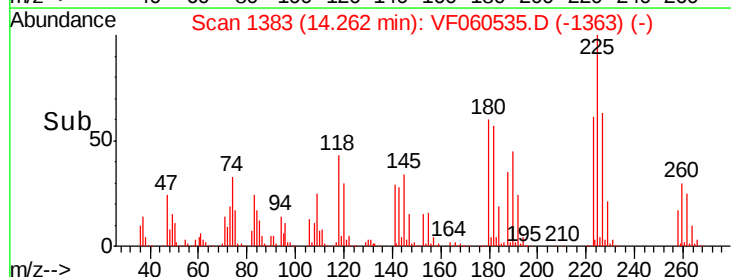


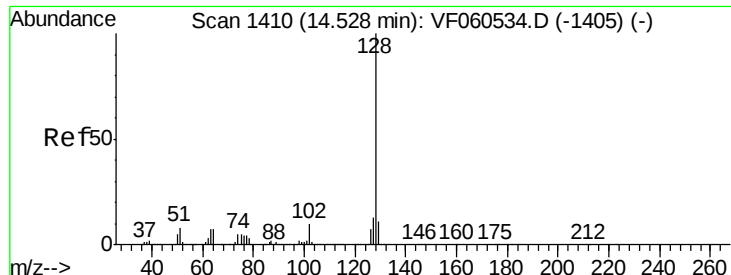
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





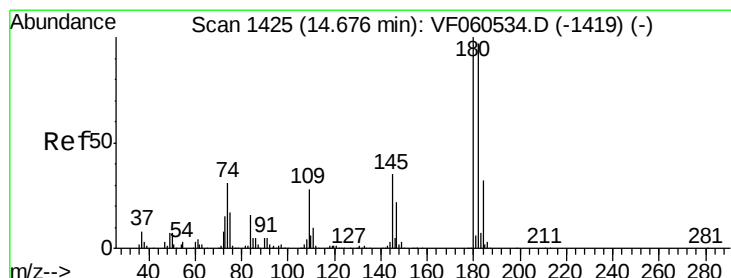
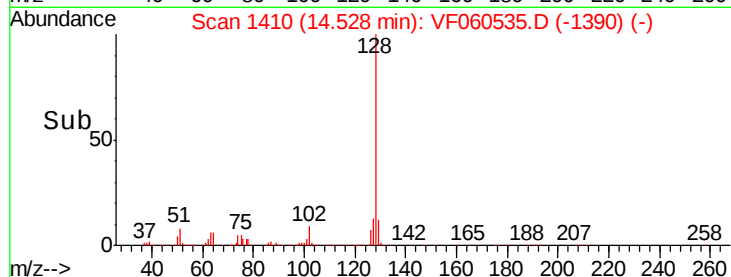
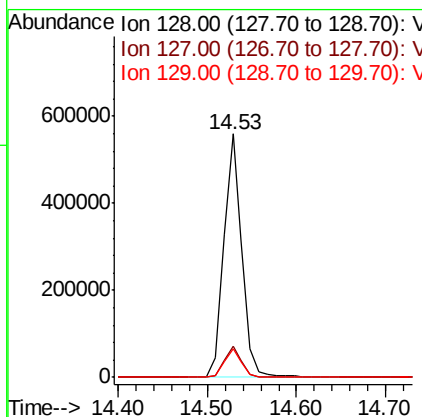
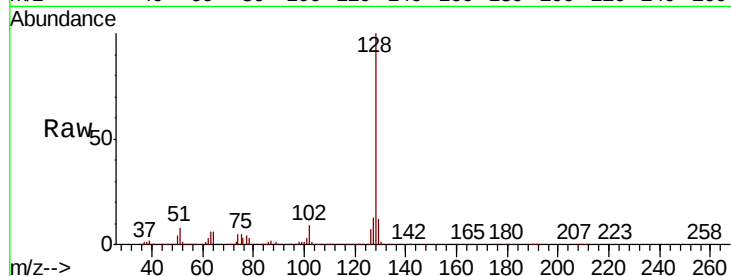
#95
Naphthalene
Concen: 73.555 ug/l
RT: 14.53 min Scan# 1410
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.7	8.7	13.1

Manual Integrations
APPROVED

apatel
10/30/2018 2:07:26 PM



#96
1,2,3-Trichlorobenzene
Concen: 66.888 ug/l
RT: 14.68 min Scan# 1425
Delta R.T. 0.00 min
Lab File: VF060535.D
Acq: 29 Oct 2018 18:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.7	146.1
145	32.5	17.3	52.0

