

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082318\
 Data File : VF060050.D
 Acq On : 23 Aug 2018 13:50
 Operator : VA/AP
 Sample : VF0823SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

Manual Integrations
 APPROVED

MMDadoda
 8/24/2018 4:08:41 PM

Quant Time: Aug 23 15:30:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	204952	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	314914	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.92	117	344603	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	207336	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	136854	48.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.58%	
35) Dibromofluoromethane	4.30	113	128101	51.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.60%	
50) Toluene-d8	7.72	98	343068	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	
62) 4-Bromofluorobenzene	11.51	95	194802	52.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.95	85	55661	20.63	ug/l	95
3) Chloromethane	1.07	50	42288	22.08	ug/l	95
4) Vinyl Chloride	1.12	62	34632	20.67	ug/l	92
5) Bromomethane	1.32	94	25642	20.14	ug/l	96
6) Chloroethane	1.39	64	13690	20.73	ug/l	93
7) Trichlorofluoromethane	1.48	101	71745	21.30	ug/l	96
8) Diethyl Ether	1.70	74	12070	20.04	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.86	101	39120	22.12	ug/l	91
10) Methyl Iodide	1.93	142	48267	20.64	ug/l	92
11) Tert butyl alcohol	2.69	59	14612	97.92	ug/l #	73
12) 1,1-Dichloroethene	1.83	96	26256	20.15	ug/l	98
13) Acrolein	2.09	56	5377	79.09	ug/l	86
14) Allyl chloride	2.19	41	47699	20.61	ug/l	93
15) Acrylonitrile	3.07	53	30089	102.18	ug/l	95
16) Acetone	2.34	43	87852	119.17	ug/l	100
17) Carbon Disulfide	1.84	76	87448	21.44	ug/l	100
18) Methyl Acetate	2.45	43	30551	21.95	ug/l	92
19) Methyl tert-butyl Ether	2.54	73	84095	20.15	ug/l #	92
20) Methylene Chloride	2.27	84	33017	19.63	ug/l	95
21) trans-1,2-Dichloroethene	2.41	96	28519	19.56	ug/l	94
22) Diisopropyl ether	2.93	45	99525	19.21	ug/l	99
23) Vinyl Acetate	3.34	43	323685	117.92	ug/l	99
24) 1,1-Dichloroethane	3.00	63	66242	20.70	ug/l	99
25) 2-Butanone	4.51	43	107229	111.98	ug/l	100
26) 2,2-Dichloropropane	3.76	77	72877	22.01	ug/l	96
27) cis-1,2-Dichloroethene	3.64	96	46214	22.37	ug/l	88
28) Bromochloromethane	3.89	49	29253	21.65	ug/l #	76
29) Tetrahydrofuran	4.26	42	37795	104.54	ug/l	96
30) Chloroform	4.04	83	94804	21.10	ug/l	96
31) Cyclohexane	3.86	56	54675	22.42	ug/l	91
32) 1,1,1-Trichloroethane	4.28	97	83930	21.81	ug/l	99
36) 1,1-Dichloropropene	4.46	75	64512	21.80	ug/l	97
37) Ethyl Acetate	4.30	43	39558	22.35	ug/l #	88
38) Carbon Tetrachloride	4.18	117	73082	21.33	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082318\
 Data File : VF060050.D
 Acq On : 23 Aug 2018 13:50
 Operator : VA/AP
 Sample : VF0823SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0823SBS01

Manual Integrations
 APPROVED

MMDadoda
 8/24/2018 4:08:41 PM

Quant Time: Aug 23 15:30:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	61392	22.12	ug/l	86
40) Benzene	4.81	78	136146	21.06	ug/l	92
41) Methacrylonitrile	4.93	41	18589	20.76	ug/l	94
42) 1,2-Dichloroethane	5.12	62	70613	20.37	ug/l	97
43) Isopropyl Acetate	7.11	43	47737	21.43	ug/l #	93
44) Trichloroethene	5.68	130	49985	23.39	ug/l	94
45) 1,2-Dichloropropane	6.41	63	39510	21.61	ug/l	98
46) Dibromomethane	6.26	93	31554	22.05	ug/l	99
47) Bromodichloromethane	6.55	83	73886	21.38	ug/l	96
48) Methyl methacrylate	6.88	41	29807	20.22	ug/l	87
49) 1,4-Dioxane	6.87	88	6611	467.19	ug/l	91
51) 4-Methyl-2-Pentanone	8.41	43	224748	116.83	ug/l	98
52) Toluene	7.79	92	104195	22.34	ug/l	92
53) t-1,3-Dichloropropene	8.44	75	69118	22.05	ug/l	94
54) cis-1,3-Dichloropropene	7.46	75	78412	22.42	ug/l	93
55) 1,1,2-Trichloroethane	8.64	97	37071	21.25	ug/l	96
56) Ethyl methacrylate	8.76	69	44753	21.20	ug/l	98
57) 1,3-Dichloropropane	9.01	76	68153	22.23	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.79	63	16771	100.07	ug/l	100
59) 2-Hexanone	9.64	43	191398	122.93	ug/l	100
60) Dibromochloromethane	8.87	129	54792	21.28	ug/l	95
61) 1,2-Dibromoethane	9.15	107	43767	21.36	ug/l	95
64) Tetrachloroethene	8.31	164	46147	19.88	ug/l	96
65) Chlorobenzene	9.94	112	136660	21.00	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.07	131	50291	20.38	ug/l	97
67) Ethyl Benzene	10.04	91	241801	21.54	ug/l	100
68) m/p-Xylenes	10.27	106	179343	43.47	ug/l	98
69) o-Xylene	10.83	106	99472	22.61	ug/l	96
70) Styrene	10.91	104	148765	22.04	ug/l	97
71) Bromoform	10.89	173	35657	20.71	ug/l	97
73) Isopropylbenzene	11.24	105	284980	22.83	ug/l	99
74) N-amyl acetate	11.47	43	84436	21.77	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.79	83	57099	20.95	ug/l	96
76) 1,2,3-Trichloropropane	11.89	75	43633	20.64	ug/l	92
77) Bromobenzene	11.60	156	74391	21.92	ug/l	99
78) n-propylbenzene	11.69	91	340102	22.08	ug/l	98
79) 2-Chlorotoluene	11.82	91	194225	21.44	ug/l	99
80) 1,3,5-Trimethylbenzene	11.92	105	240838	22.15	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.96	75	19737m	20.41	ug/l	
82) 4-Chlorotoluene	11.99	91	214293	21.79	ug/l	99
83) tert-Butylbenzene	12.22	119	235726	22.23	ug/l	98
84) 1,2,4-Trimethylbenzene	12.29	105	250434	21.66	ug/l	97
85) sec-Butylbenzene	12.39	105	326612	22.12	ug/l	97
86) p-Isopropyltoluene	12.55	119	270618	22.09	ug/l	97
87) 1,3-Dichlorobenzene	12.57	146	136328	21.72	ug/l	96
88) 1,4-Dichlorobenzene	12.64	146	131660	21.11	ug/l	98
89) n-Butylbenzene	12.92	91	282767	23.76	ug/l	99
90) Hexachloroethane	13.00	117	59707	21.69	ug/l	89
91) 1,2-Dichlorobenzene	13.02	146	129493	21.46	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.72	75	10785	19.36	ug/l	96

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF082318\
Data File : VF060050.D
Acq On : 23 Aug 2018 13:50
Operator : VA/AP
Sample : VF0823SBSD01
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBSD01

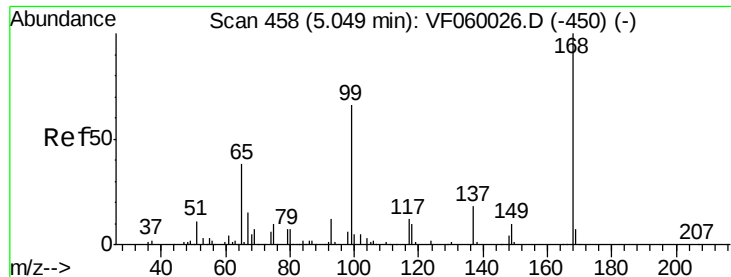
Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM

Quant Time: Aug 23 15:30:24 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	98042	22.06	ug/l	98
94) Hexachlorobutadiene	14.26	225	62014	22.42	ug/l	98
95) Naphthalene	14.53	128	139240	19.52	ug/l	100
96) 1,2,3-Trichlorobenzene	14.68	180	93703	22.10	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion:168 Resp: 204952

Ion Ratio Lower Upper

168 100

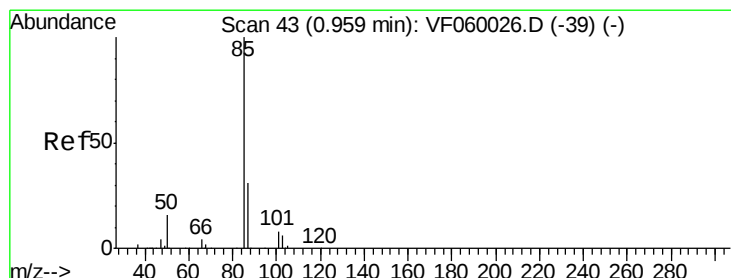
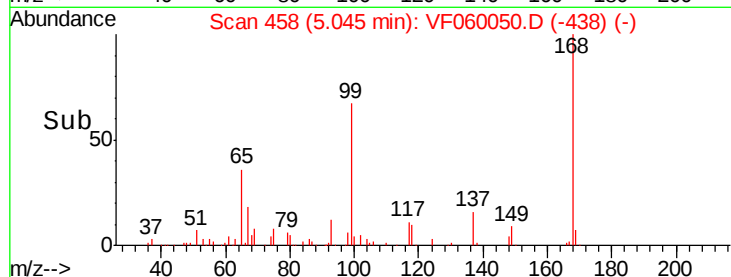
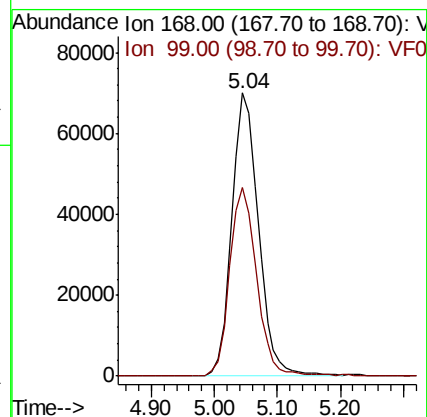
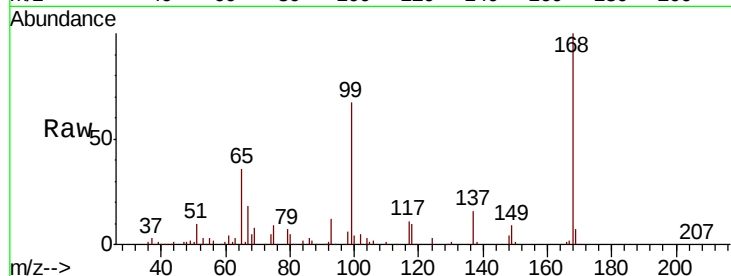
99 66.7 52.6 79.0

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#2

Dichlorodifluoromethane

Concen: 20.63 ug/l

RT: 0.95 min Scan# 43

Delta R.T. -0.00 min

Lab File: VF060050.D

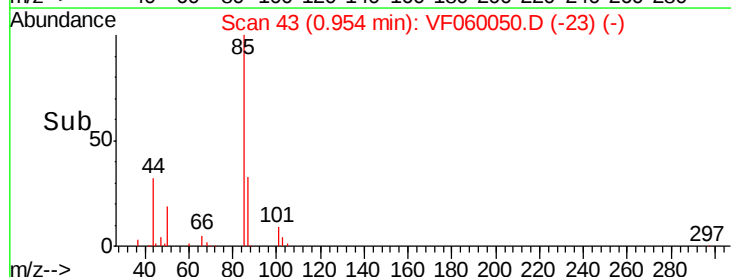
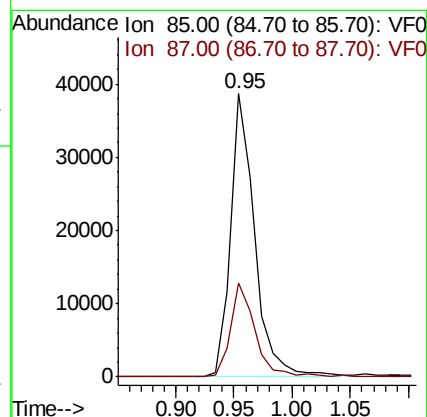
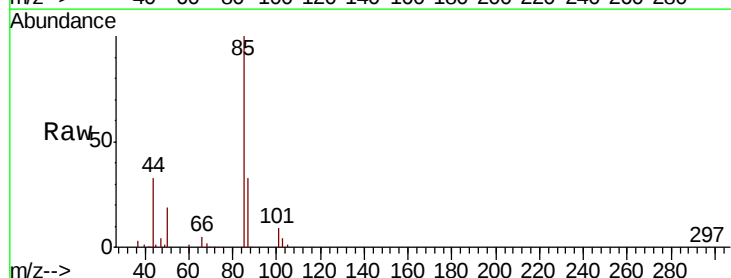
Acq: 23 Aug 2018 13:50

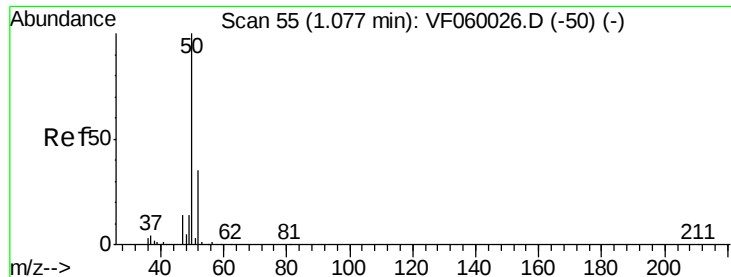
Tgt Ion: 85 Resp: 55661

Ion Ratio Lower Upper

85 100

87 33.3 15.3 45.9





#3

Chloromethane

Concen: 22.08 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 50 Resp: 42288

Ion Ratio Lower Upper

50 100

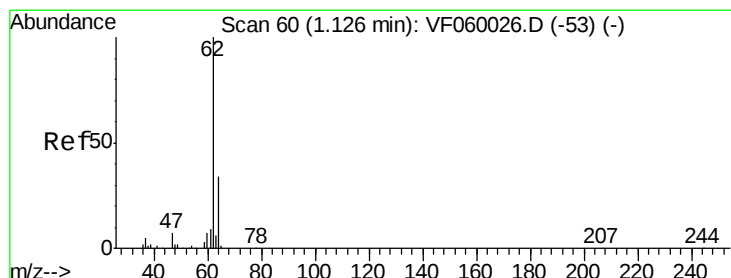
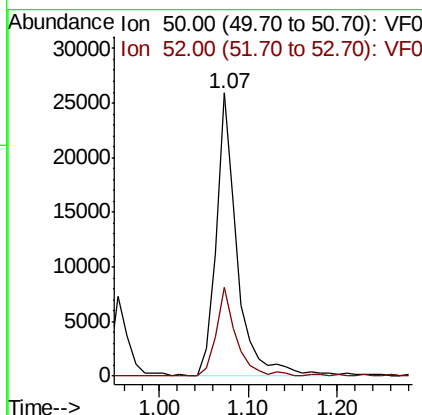
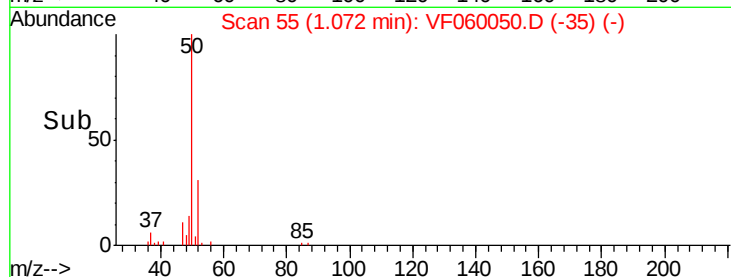
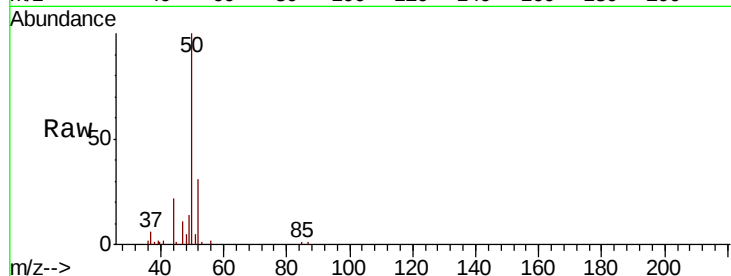
52 31.4 27.6 41.4

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#4

Vinyl Chloride

Concen: 20.67 ug/l

RT: 1.12 min Scan# 60

Delta R.T. -0.00 min

Lab File: VF060050.D

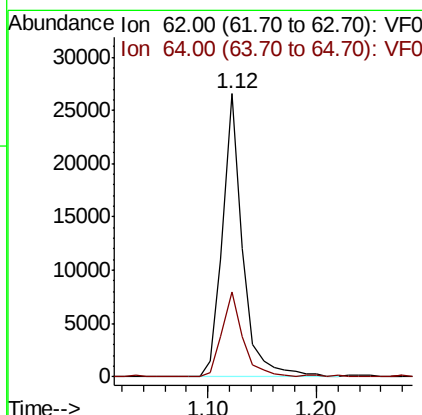
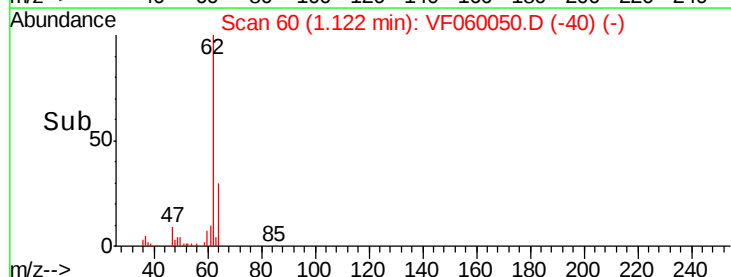
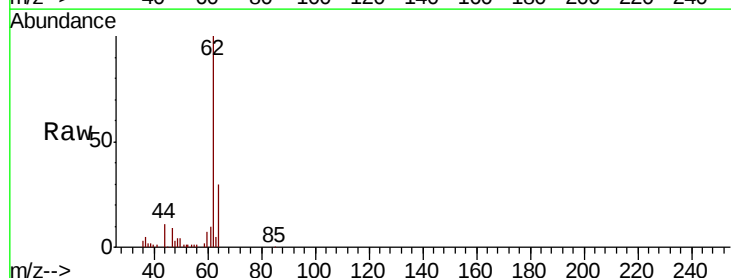
Acq: 23 Aug 2018 13:50

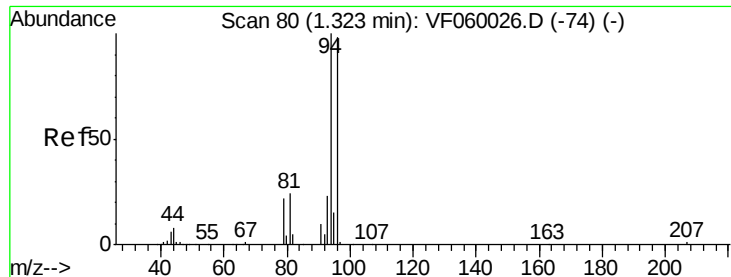
Tgt Ion: 62 Resp: 34632

Ion Ratio Lower Upper

62 100

64 29.8 27.4 41.2





#5

Bromomethane

Concen: 20.14 ug/l

RT: 1.32 min Scan# 80

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 94 Resp: 25642

Ion Ratio Lower Upper

94 100

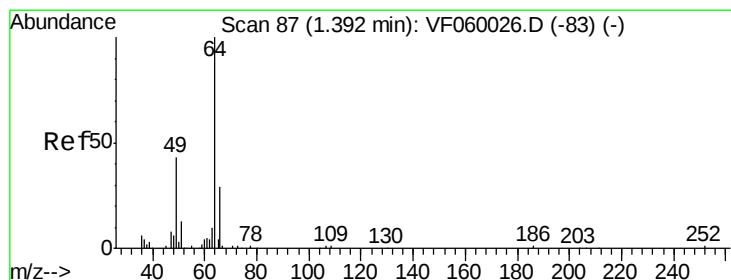
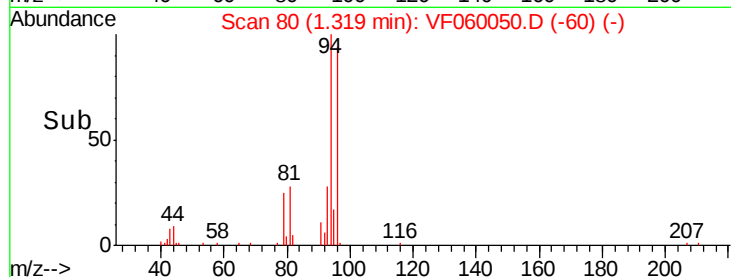
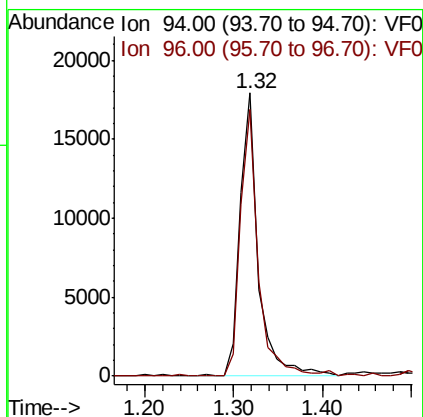
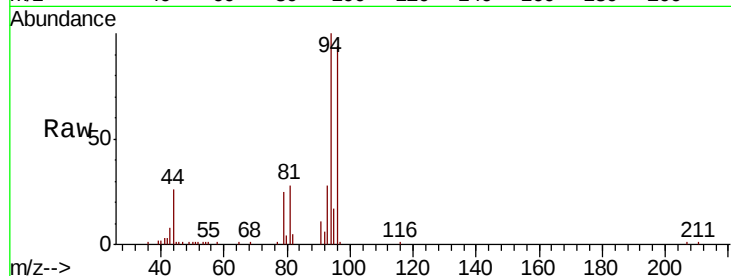
96 94.2 78.6 118.0

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#6

Chloroethane

Concen: 20.73 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.00 min

Lab File: VF060050.D

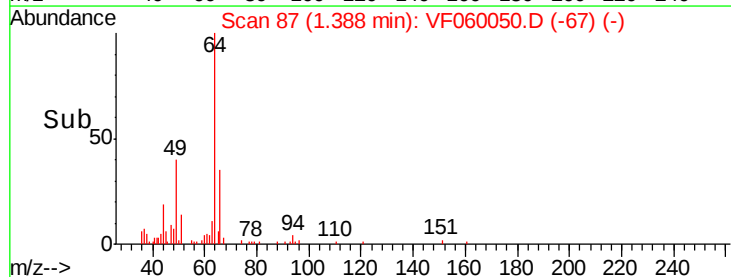
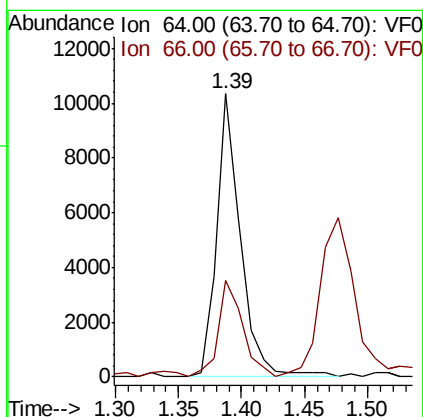
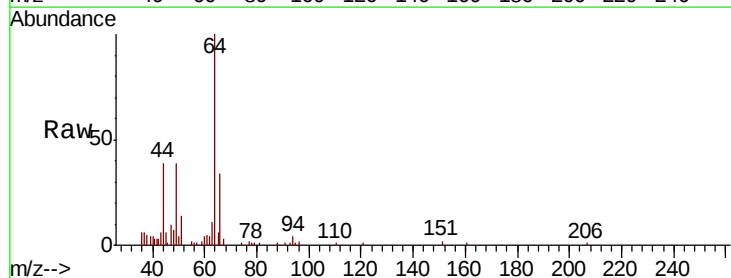
Acq: 23 Aug 2018 13:50

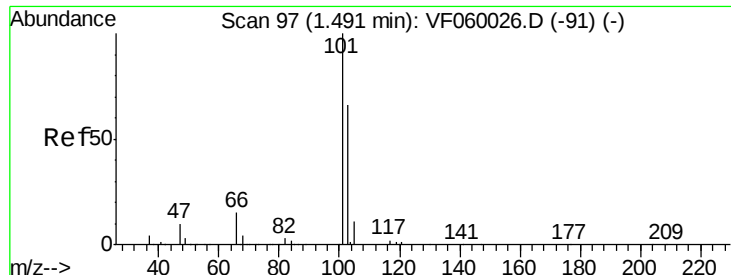
Tgt Ion: 64 Resp: 13690

Ion Ratio Lower Upper

64 100

66 34.1 24.1 36.1





#7

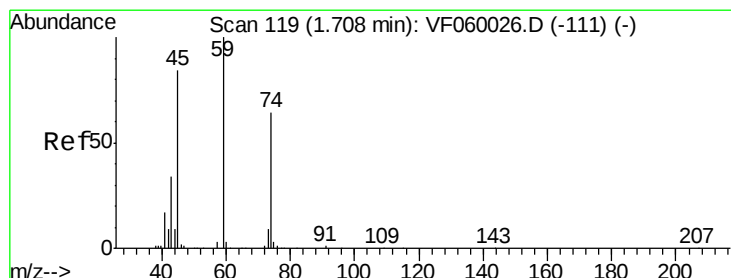
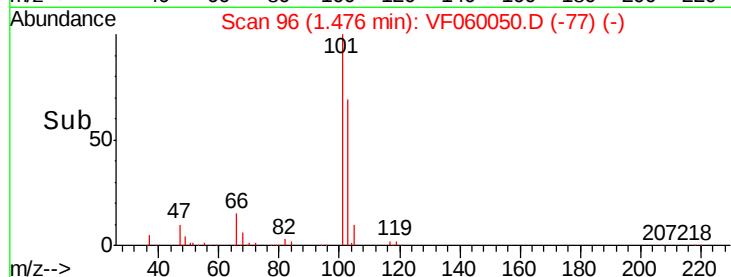
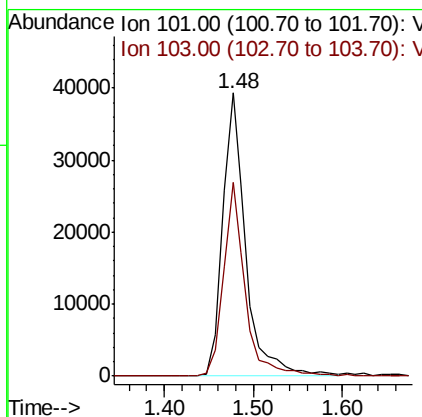
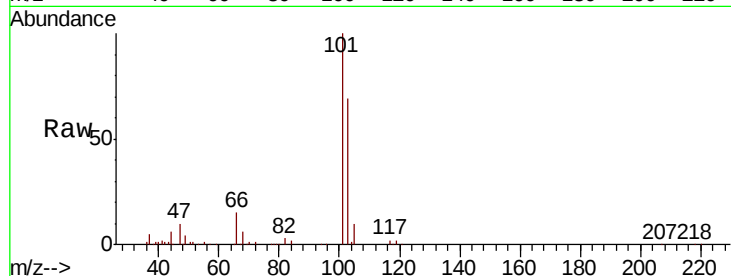
Trichlorofluoromethane
 Concen: 21.30 ug/l
 RT: 1.48 min Scan# 96
 Delta R.T. -0.01 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.7	52.5	78.7

Manual Integrations
 APPROVED

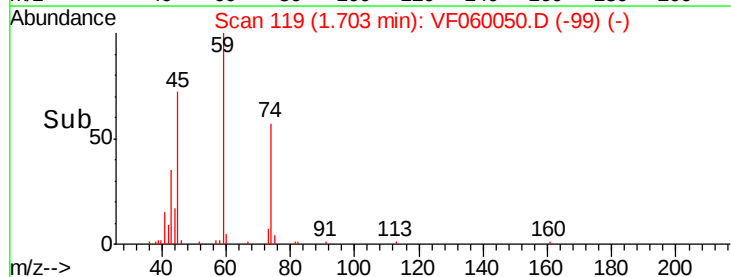
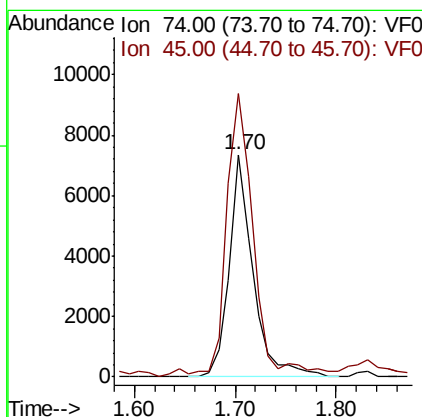
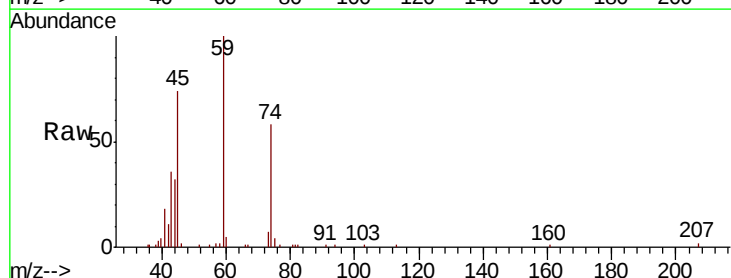
MMDadoda
 8/24/2018 4:08:41 PM

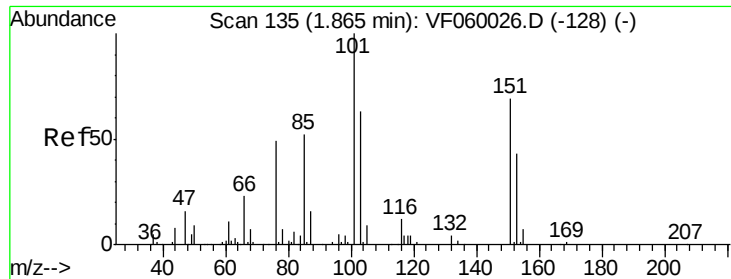


#8

Diethyl Ether
 Concen: 20.04 ug/l
 RT: 1.70 min Scan# 119
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	127.3	66.0	198.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.12 ug/l

RT: 1.86 min Scan# 135

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

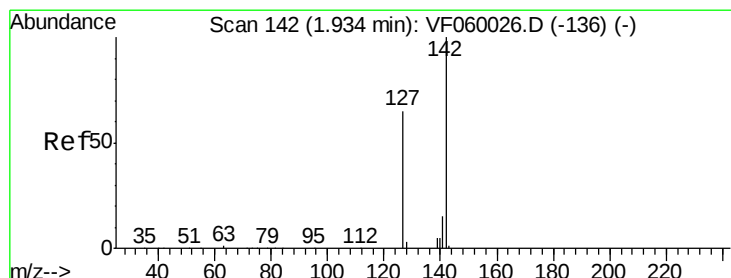
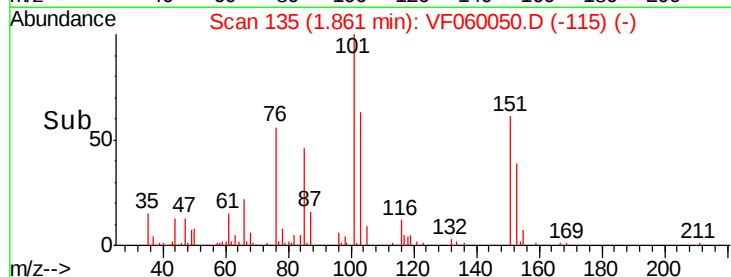
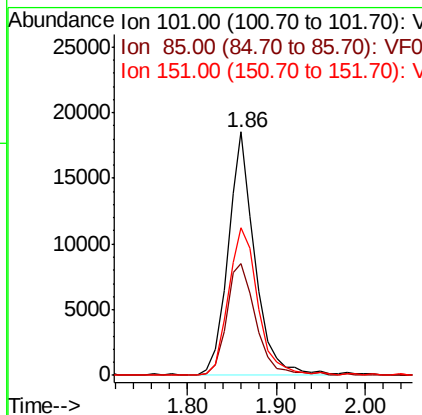
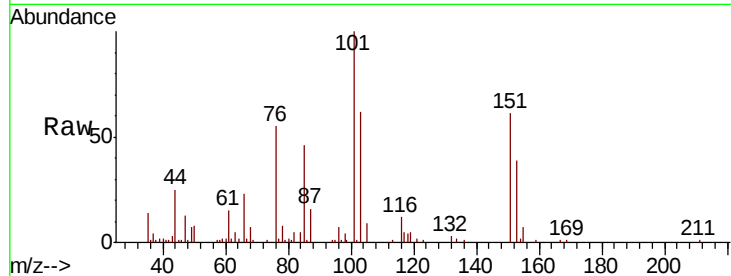
ClientSampleId :

VF0823SBS01

Tot Ion:	101	Resp:	39120
Ion Ratio	Lower	Upper	
101	100		
85	46.0	41.5	62.3
151	60.7	55.2	82.8

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#10

Methyl Iodide

Concen: 20.64 ug/l

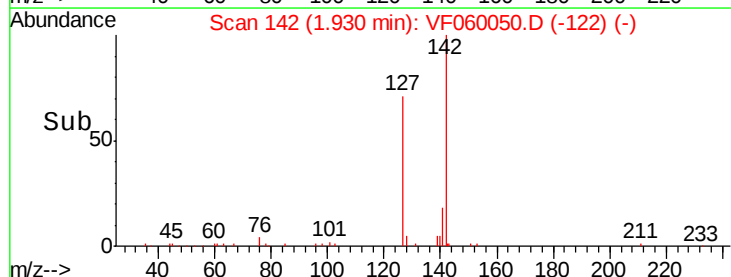
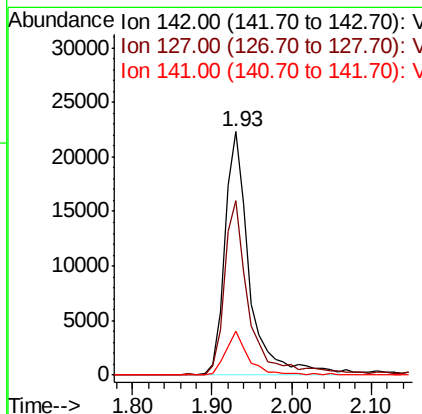
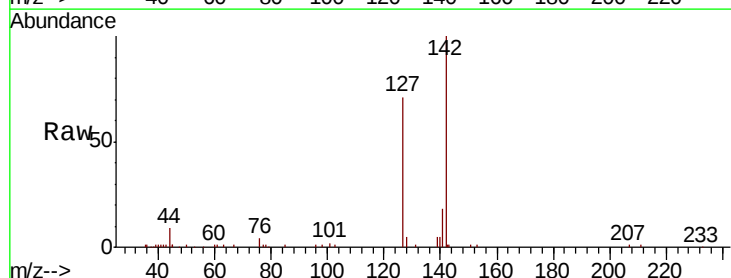
RT: 1.93 min Scan# 142

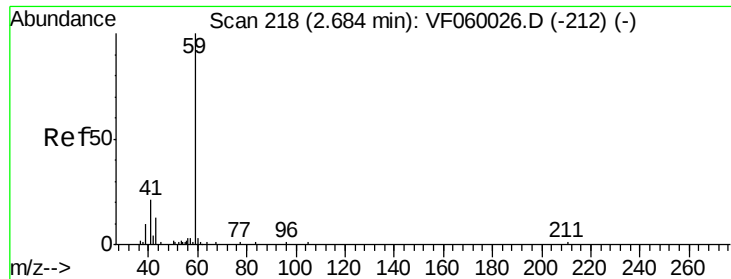
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	142	Resp:	48267
Ion Ratio	Lower	Upper	
142	100		
127	70.9	51.8	77.6
141	17.9	11.9	17.9





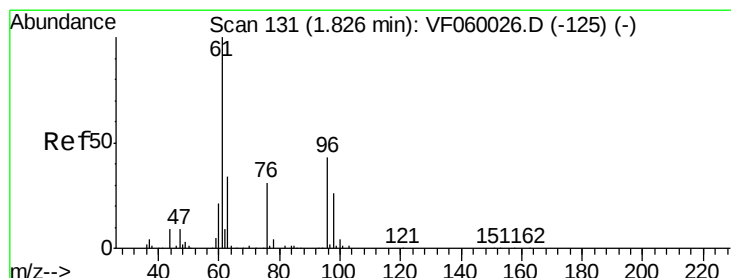
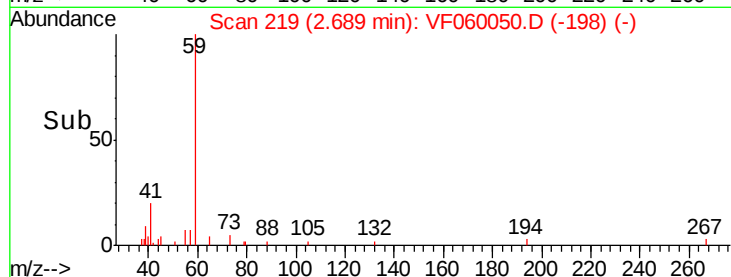
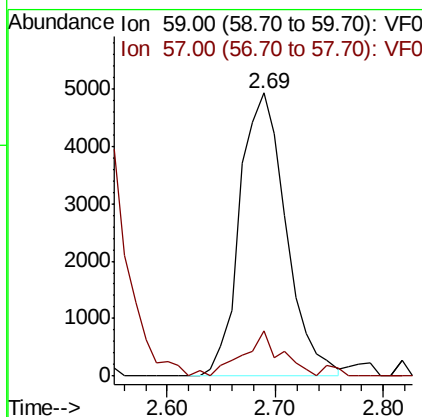
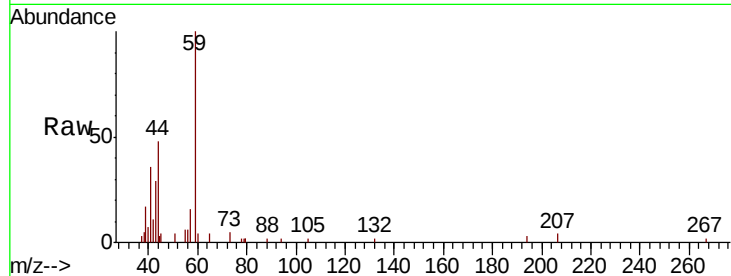
#11
Tert butyl alcohol
Concen: 97.92 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.01 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion: 59 Resp: 14612
Ion Ratio Lower Upper
59 100
57 16.1 5.4 8.2#

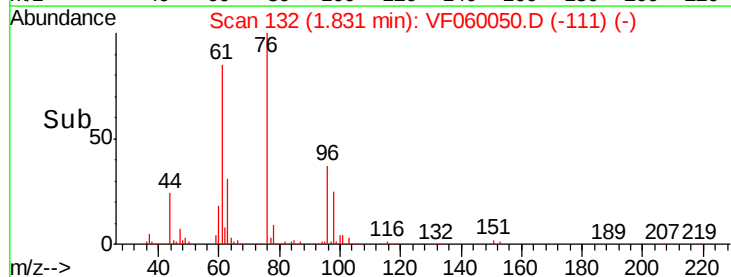
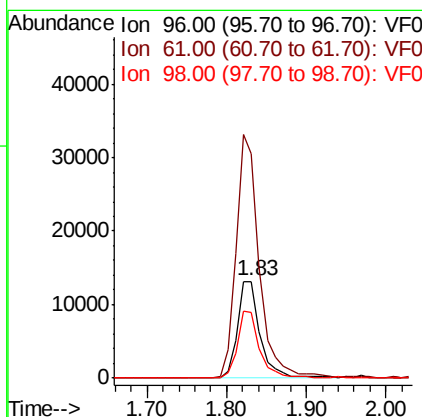
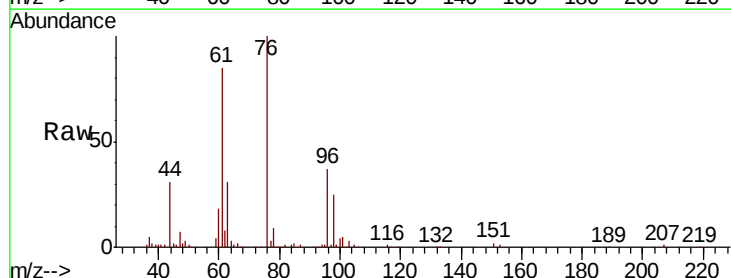
Manual Integrations
APPROVED

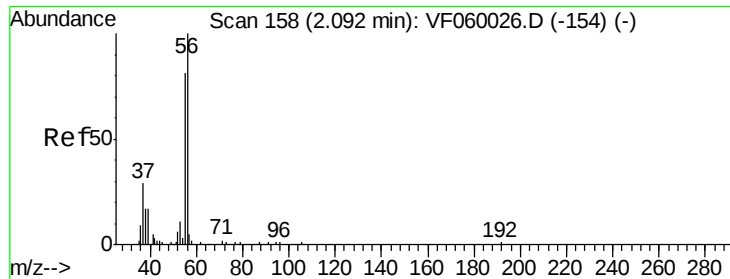
MMDadoda
8/24/2018 4:08:41 PM



#12
1,1-Dichloroethene
Concen: 20.15 ug/l
RT: 1.83 min Scan# 132
Delta R.T. 0.01 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion: 96 Resp: 26256
Ion Ratio Lower Upper
96 100
61 231.4 185.0 277.6
98 67.9 47.8 71.8





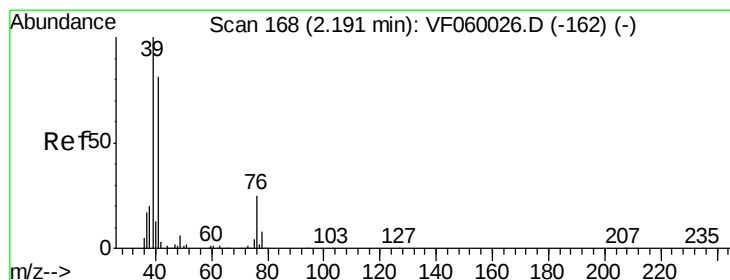
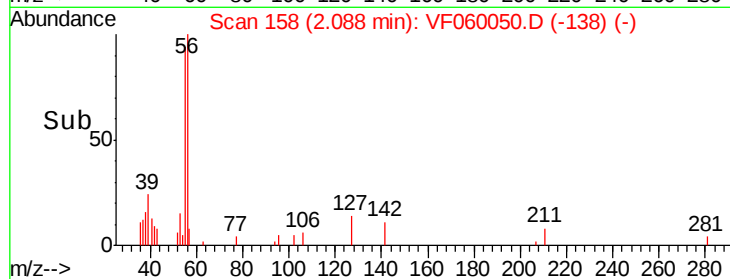
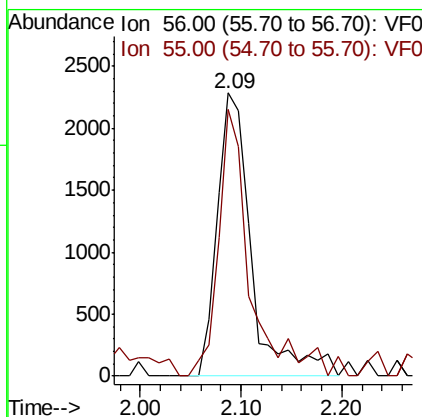
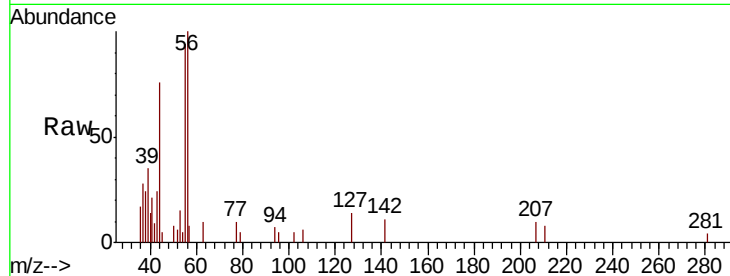
#13
Acrolein
Concen: 79.09 ug/l
RT: 2.09 min Scan# 158
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion	56	Resp	5377
Ion Ratio	Lower	Upper	
56	100		
55	94.3	65.6	98.4

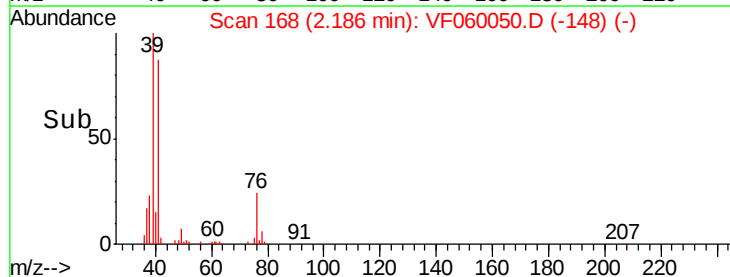
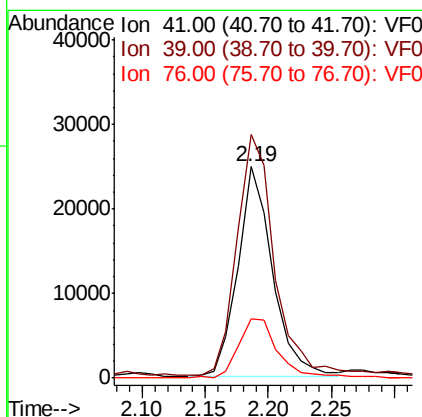
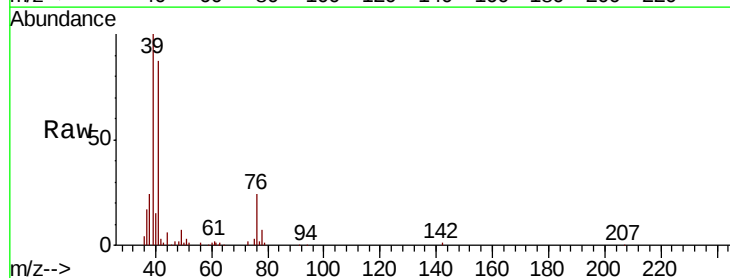
Manual Integrations
APPROVED

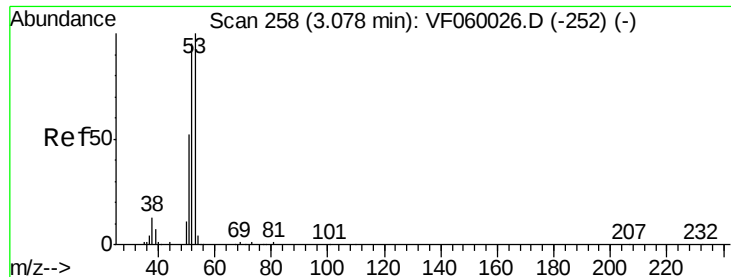
MMDadoda
8/24/2018 4:08:41 PM



#14
Allyl chloride
Concen: 20.61 ug/l
RT: 2.19 min Scan# 168
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion	41	Resp	47699
Ion Ratio	Lower	Upper	
41	100		
39	115.3	99.3	148.9
76	28.0	24.3	36.5





#15

Acrylonitrile

Concen: 102.18 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

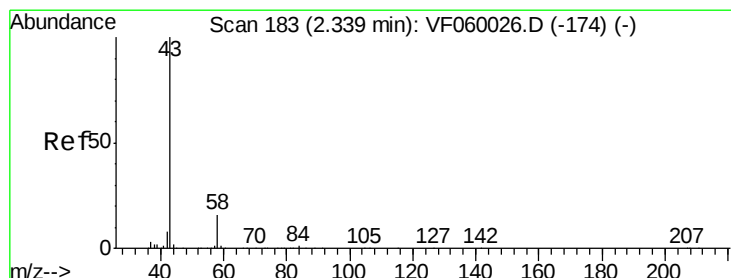
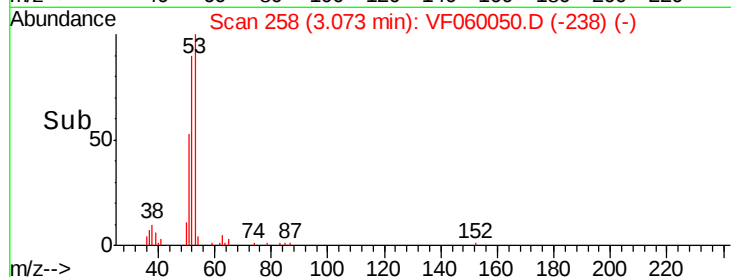
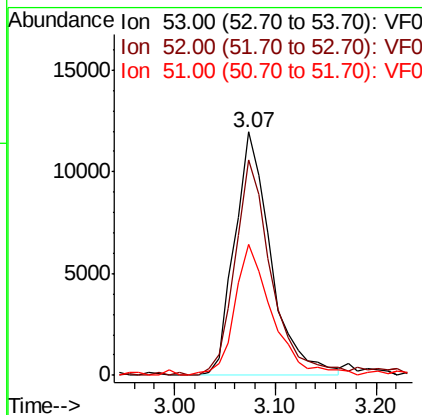
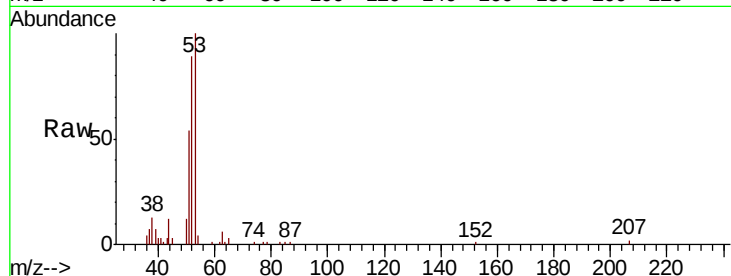
ClientSampleId :

VF0823SBS01

Tot Ion:	53	Resp:	30089
Ion	Ratio	Lower	Upper
53	100		
52	88.7	75.8	113.8
51	53.9	42.1	63.1

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#16

Acetone

Concen: 119.17 ug/l

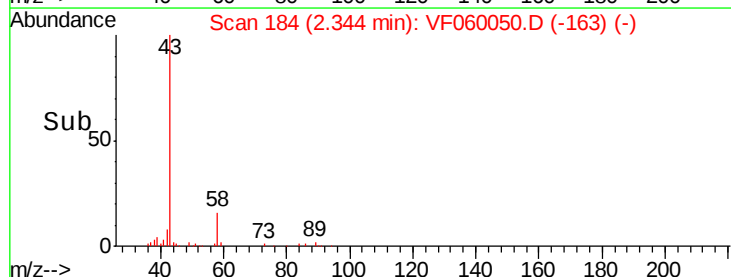
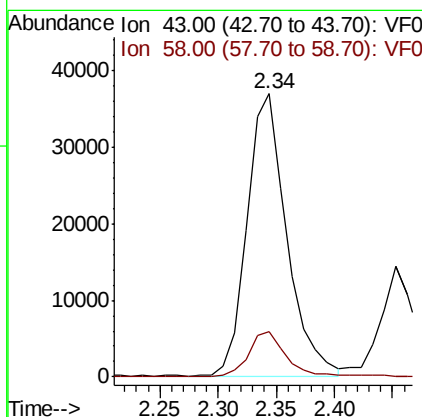
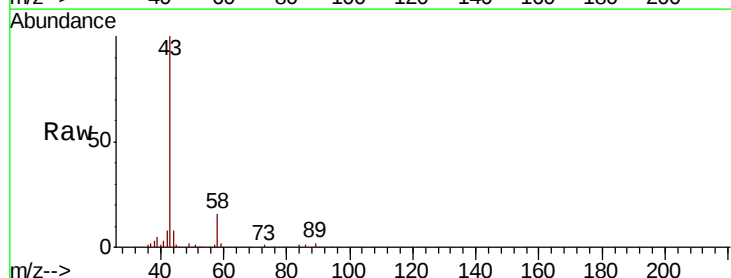
RT: 2.34 min Scan# 184

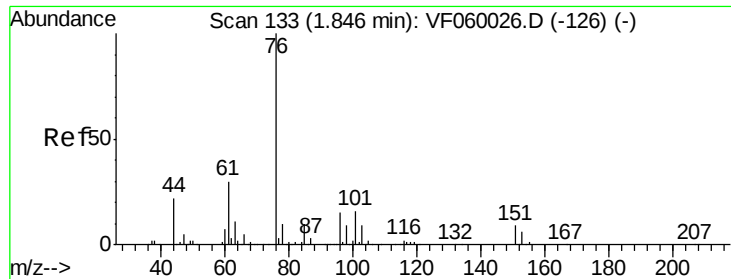
Delta R.T. 0.01 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	43	Resp:	87852
Ion	Ratio	Lower	Upper
43	100		
58	15.9	12.6	19.0





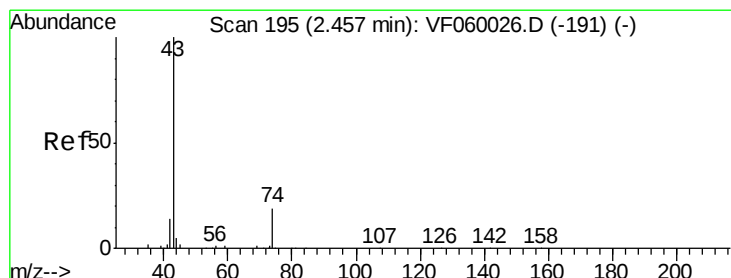
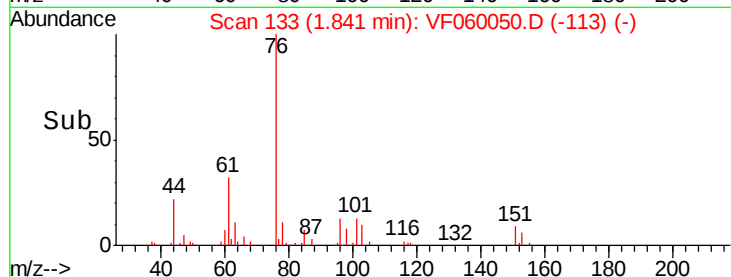
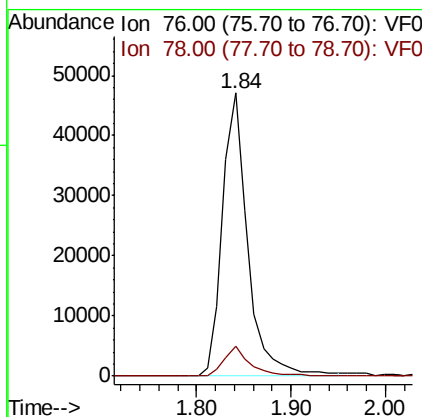
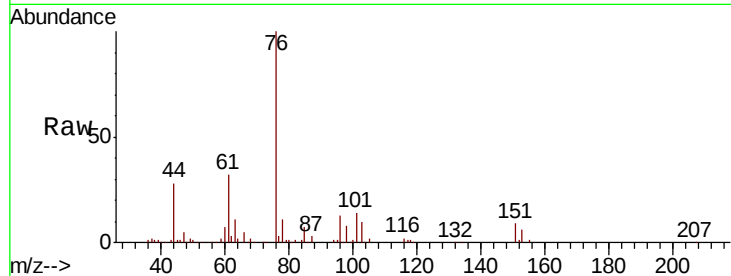
#17
Carbon Disulfide
Concen: 21.44 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion	Ion	Ratio	Lower	Upper
76	100			
78	10.5	8.4	12.6	

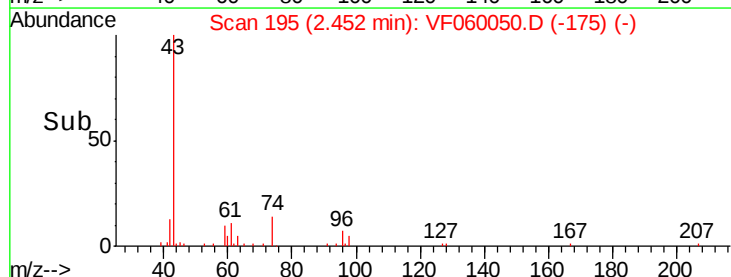
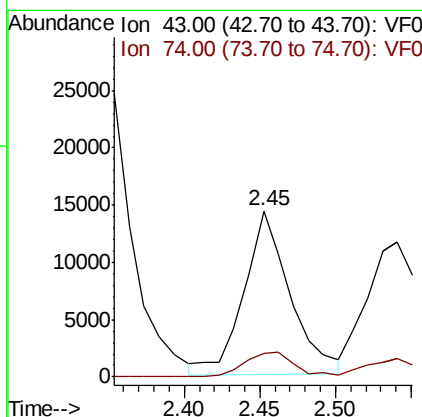
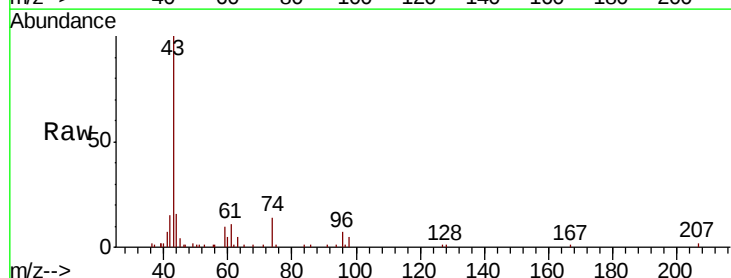
Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#18
Methyl Acetate
Concen: 21.95 ug/l
RT: 2.45 min Scan# 195
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
74	13.8	13.8	20.6	





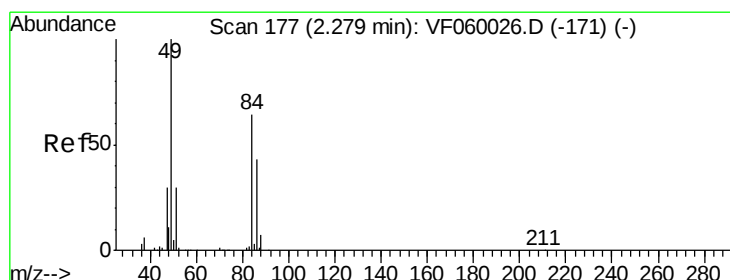
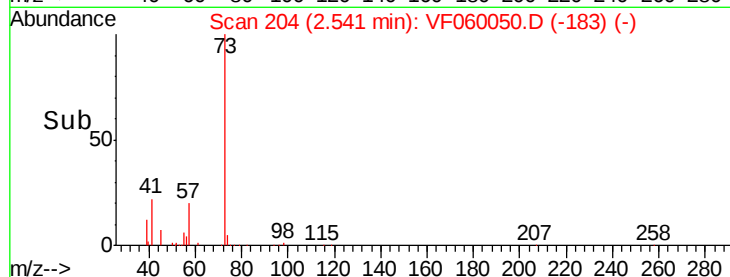
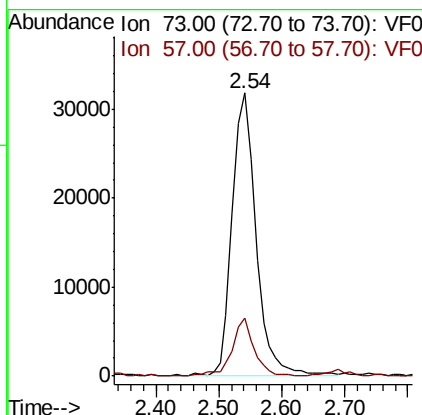
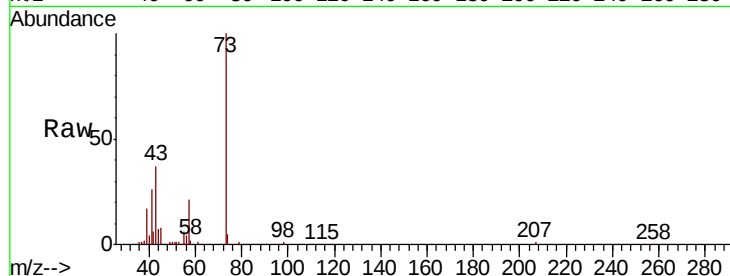
#19
Methyl tert-butyl Ether
Concen: 20.15 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.01 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion: 73 Resp: 84095
Ion Ratio Lower Upper
73 100
57 20.7 13.7 20.5#

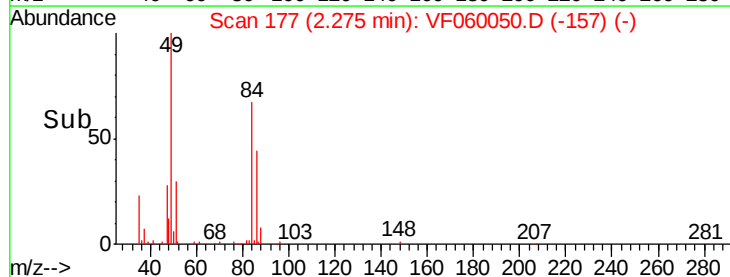
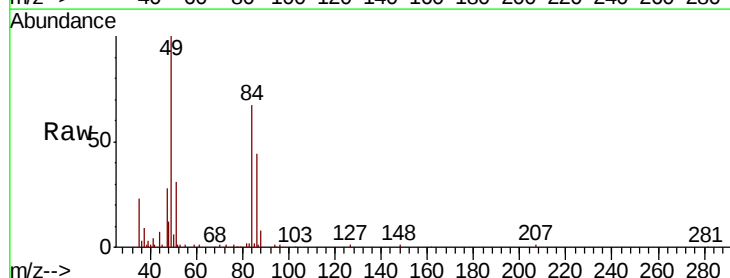
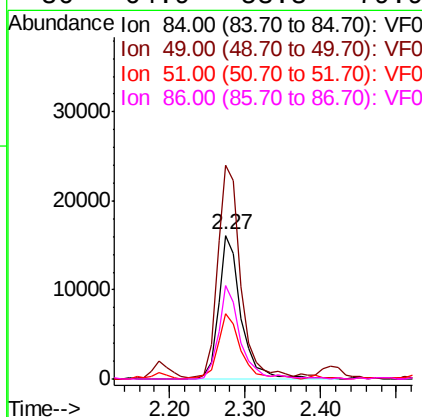
Manual Integrations
APPROVED

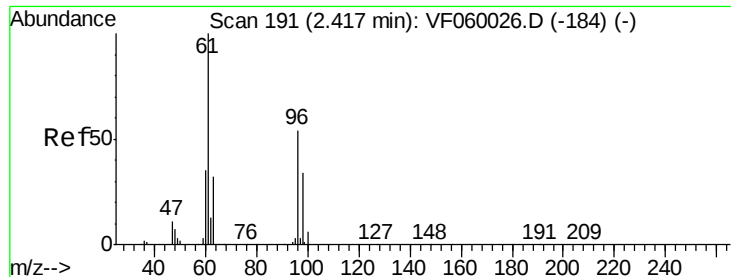
MMDadoda
8/24/2018 4:08:41 PM



#20
Methylene Chloride
Concen: 19.63 ug/l
RT: 2.27 min Scan# 177
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion: 84 Resp: 33017
Ion Ratio Lower Upper
84 100
49 148.9 125.4 188.0
51 45.6 38.3 57.5
86 64.9 53.3 79.9





#21

trans-1,2-Dichloroethene

Concen: 19.56 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

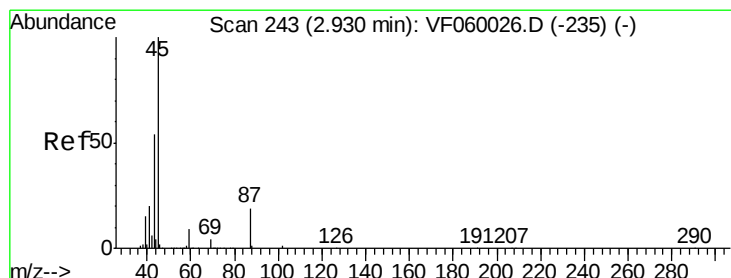
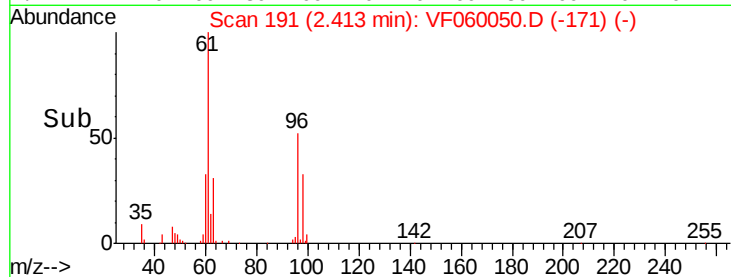
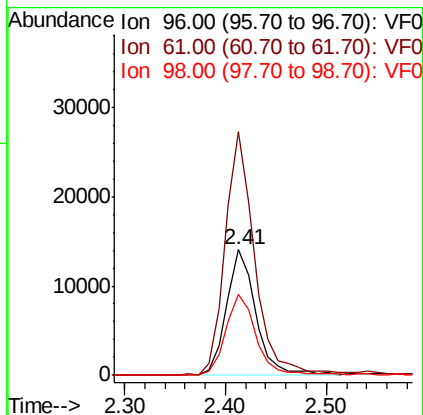
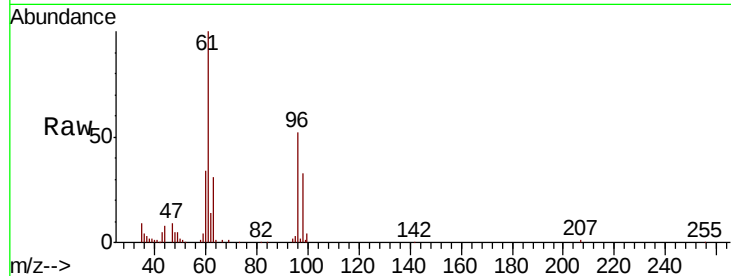
ClientSampleId :

VF0823SBS01

Tot Ion:	96	Resp:	28519
Ion	Ratio	Lower	Upper
96	100		
61	193.8	147.4	221.0
98	64.2	49.8	74.6

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#22

Diisopropyl ether

Concen: 19.21 ug/l

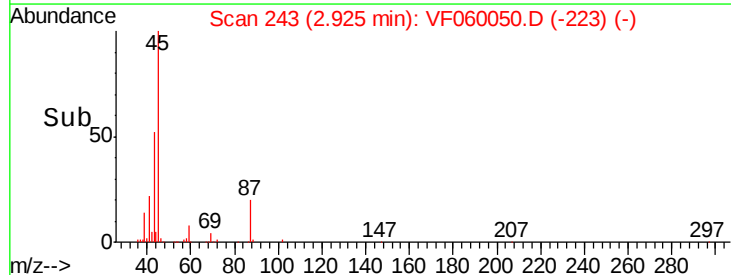
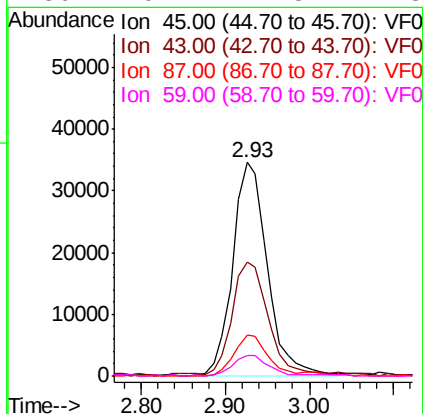
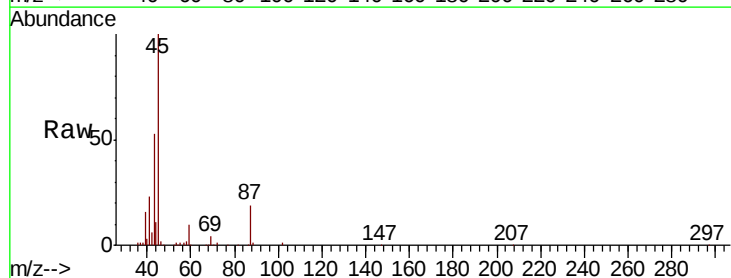
RT: 2.93 min Scan# 243

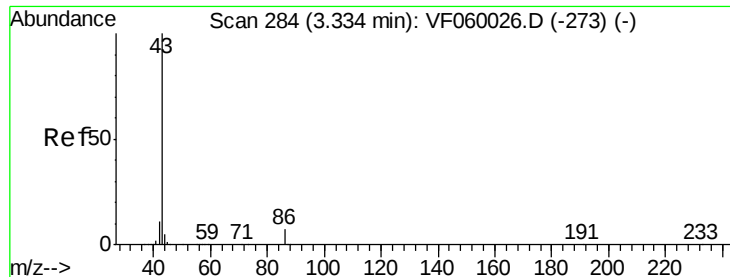
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	45	Resp:	99525
Ion	Ratio	Lower	Upper
45	100		
43	53.1	43.4	65.2
87	19.5	15.4	23.2
59	9.7	7.5	11.3





#23

Vinyl Acetate

Concen: 117.92 ug/l

RT: 3.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 43 Resp: 323685

Ion Ratio Lower Upper

43 100

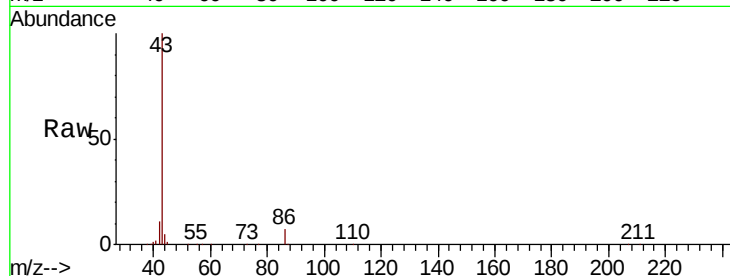
86 7.3 5.6 8.4

Manual Integrations

APPROVED

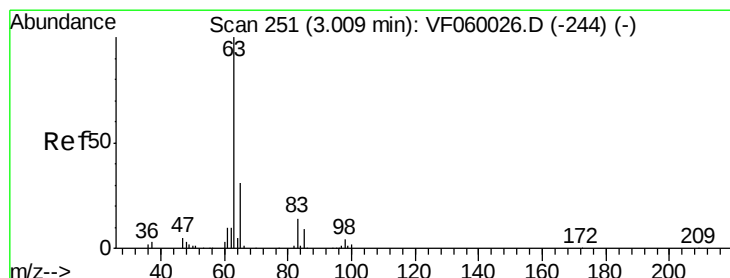
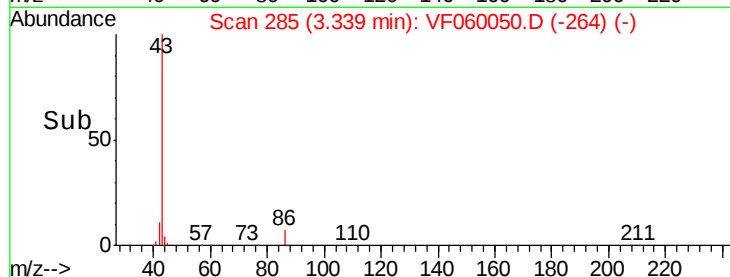
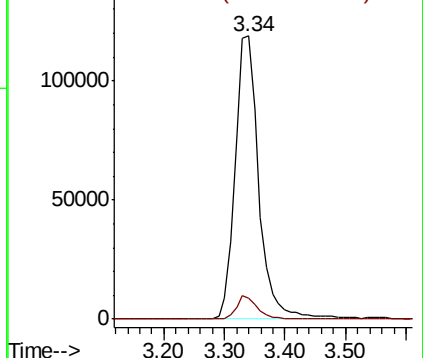
MMDadoda

8/24/2018 4:08:41 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 20.70 ug/l

RT: 3.00 min Scan# 251

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

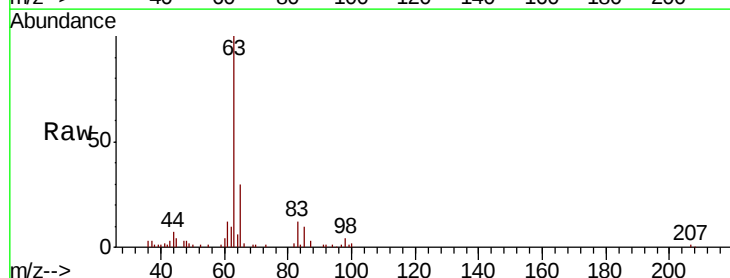
Tgt Ion: 63 Resp: 66242

Ion Ratio Lower Upper

63 100

98 3.7 2.1 6.5

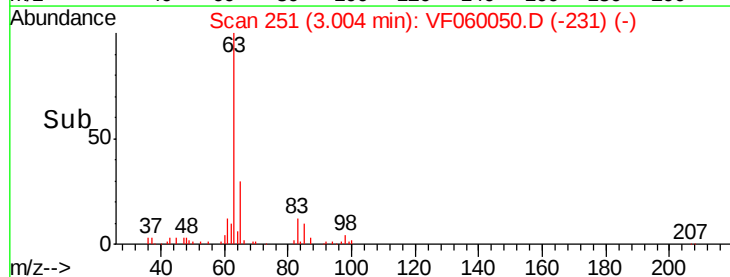
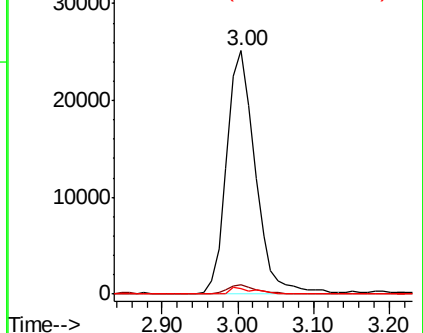
100 2.2 1.1 3.3

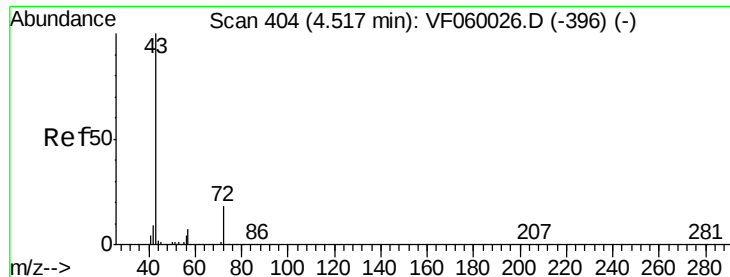


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 111.98 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 43 Resp: 107229

Ion Ratio Lower Upper

43 100

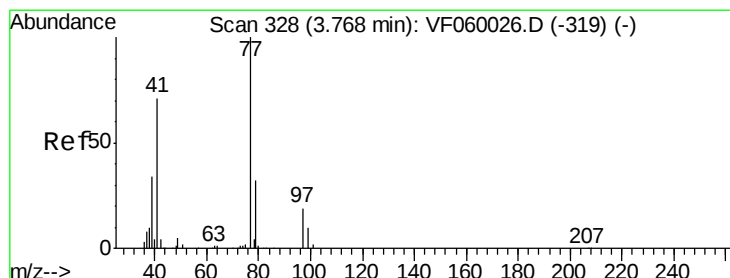
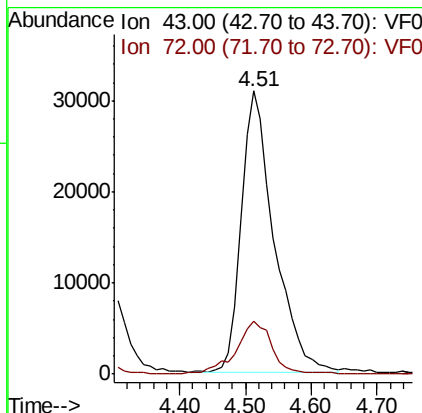
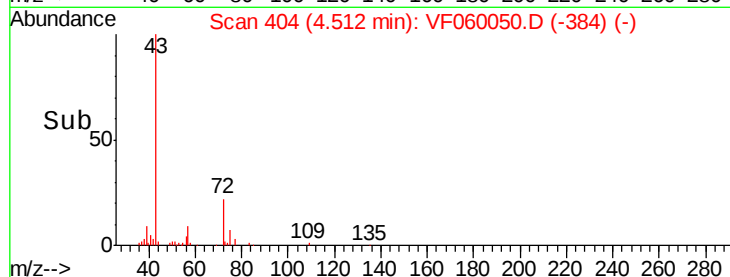
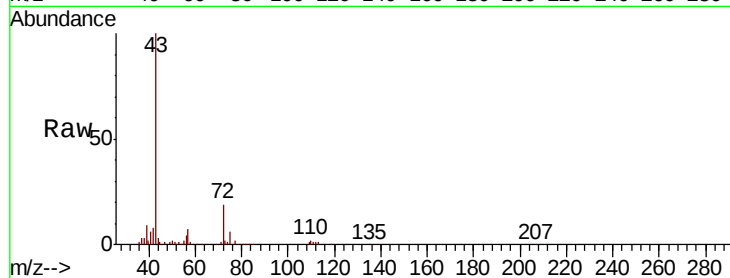
72 18.9 15.0 22.6

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#26

2,2-Dichloropropane

Concen: 22.01 ug/l

RT: 3.76 min Scan# 328

Delta R.T. -0.00 min

Lab File: VF060050.D

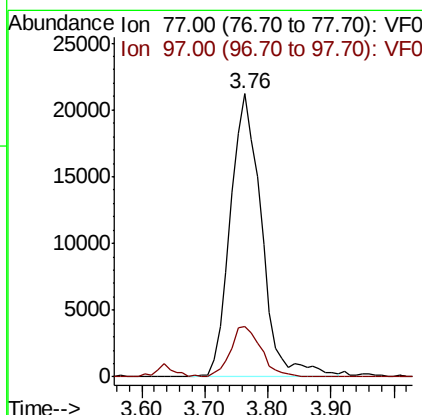
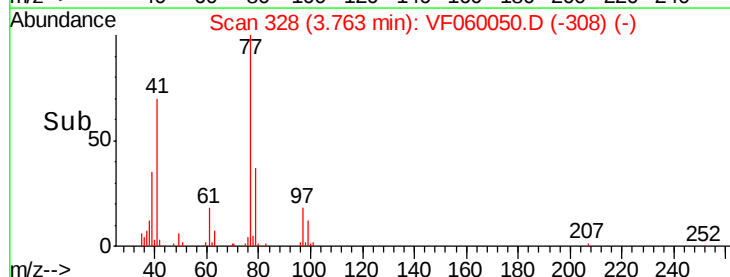
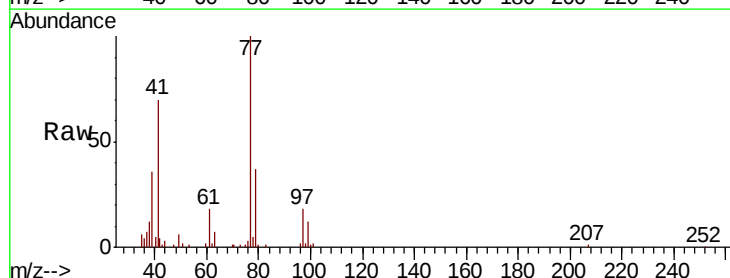
Acq: 23 Aug 2018 13:50

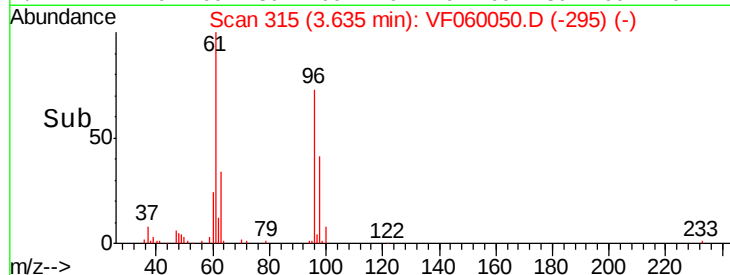
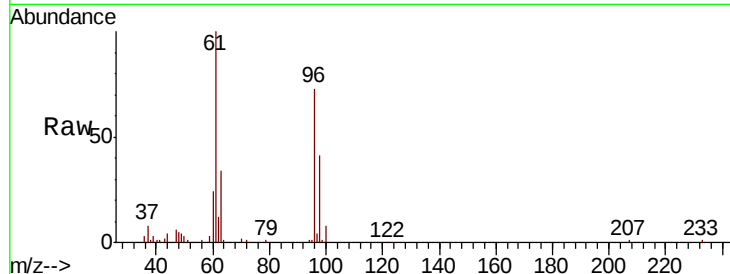
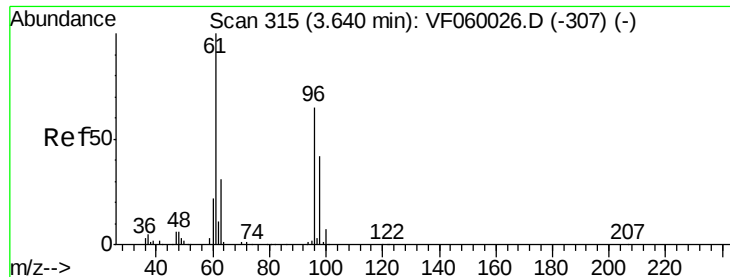
Tgt Ion: 77 Resp: 72877

Ion Ratio Lower Upper

77 100

97 17.6 9.7 29.1





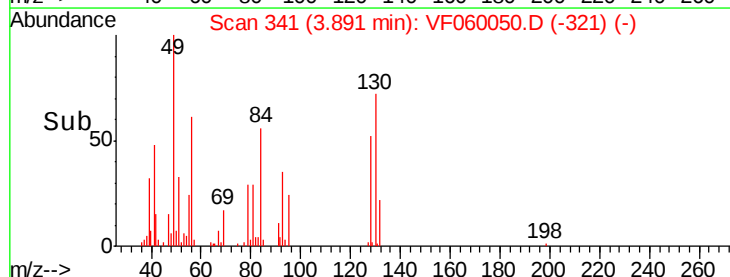
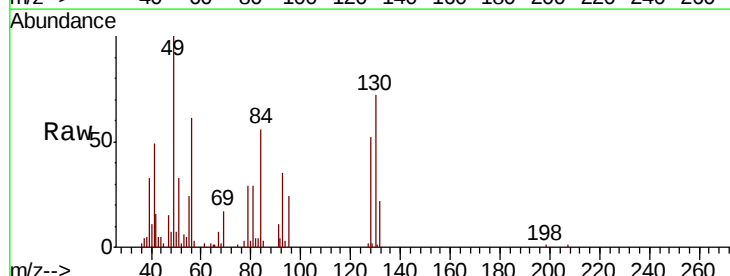
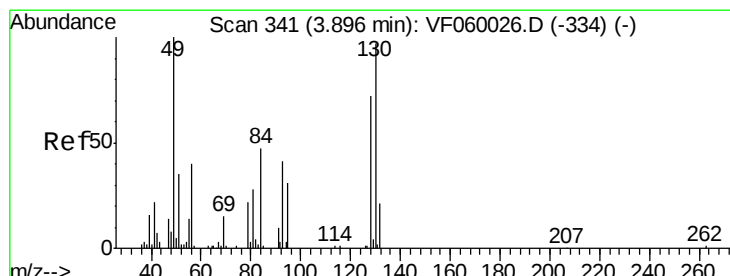
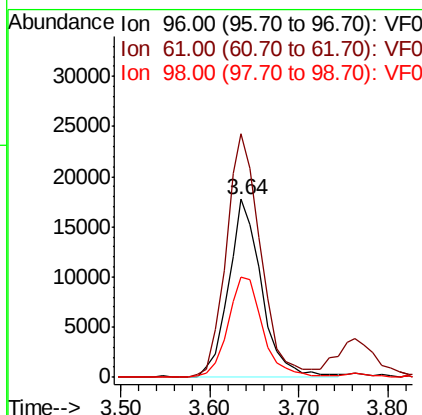
#27
 cis-1,2-Dichloroethene
 Concen: 22.37 ug/l
 RT: 3.64 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		46214		
61	136.7	0.0	307.6		
98	56.4	0.0	128.4		

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

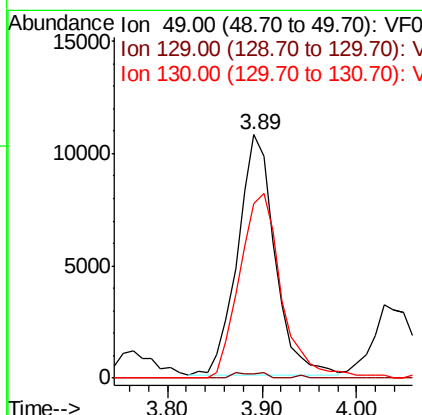
Manual Integrations
 APPROVED

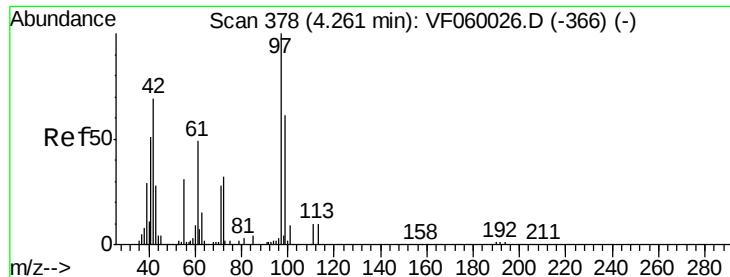
MMDadoda
 8/24/2018 4:08:41 PM



#28
 Bromochloromethane
 Concen: 21.65 ug/l
 RT: 3.89 min Scan# 341
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100		29253		
129	1.5	0.0	7.4		
130	72.8	78.0	117.0#		





#29

Tetrahydrofuran

Concen: 104.54 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

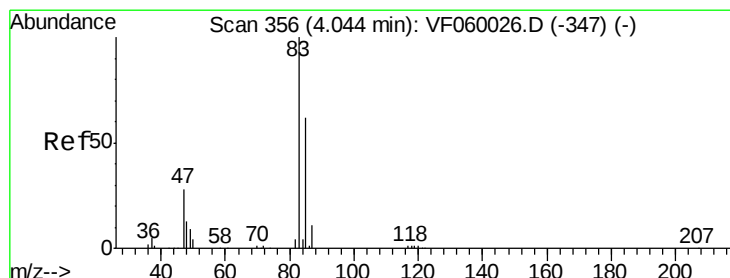
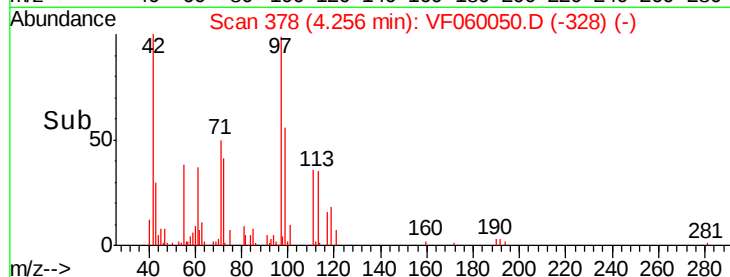
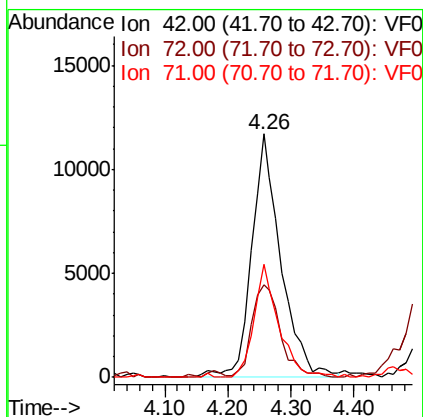
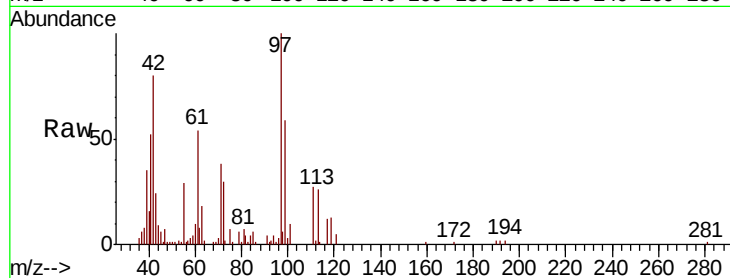
ClientSampleId :

VF0823SBS01

Tot Ion:	42	Resp:	37795
Ion	Ratio	Lower	Upper
42	100		
72	37.5	31.4	47.2
71	39.9	29.7	44.5

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#30

Chloroform

Concen: 21.10 ug/l

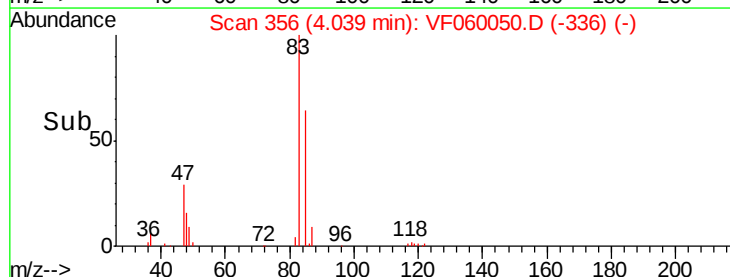
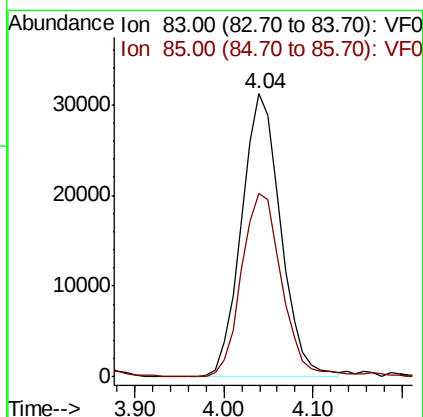
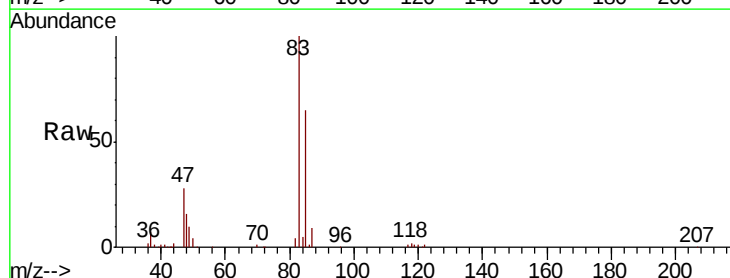
RT: 4.04 min Scan# 356

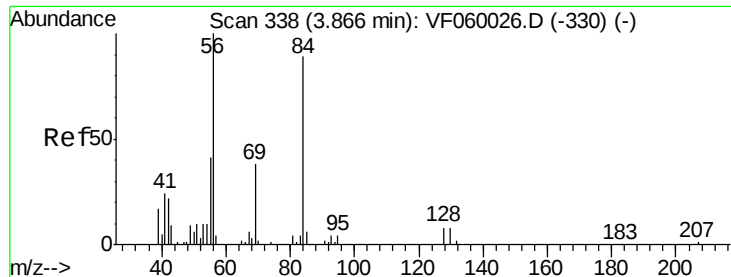
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	83	Resp:	94804
Ion	Ratio	Lower	Upper
83	100		
85	64.7	49.5	74.3





#31

Cyclohexane

Concen: 22.42 ug/l

RT: 3.86 min Scan# 338

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

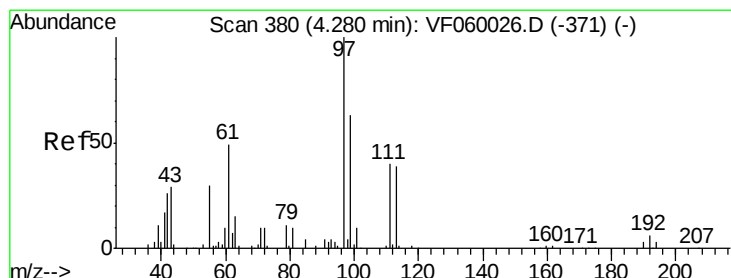
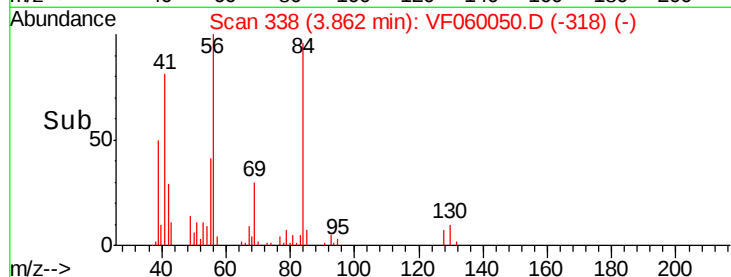
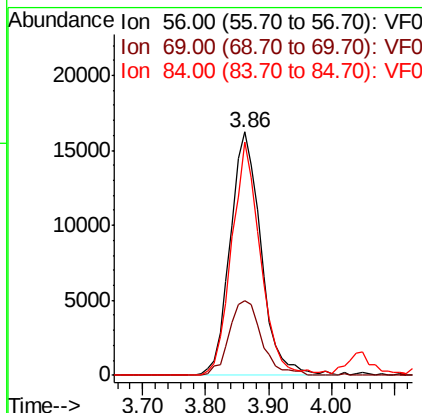
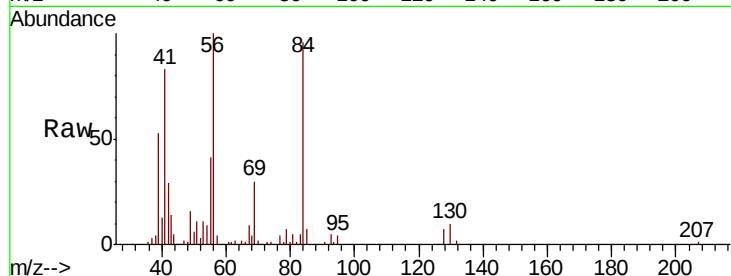
ClientSampleId :

VF0823SBS01

Tot Ion:	56	Resp:	54675
Ion Ratio	Lower	Upper	
56	100		
69	30.5	30.4	45.6
84	96.0	71.4	107.2

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#32

1,1,1-Trichloroethane

Concen: 21.81 ug/l

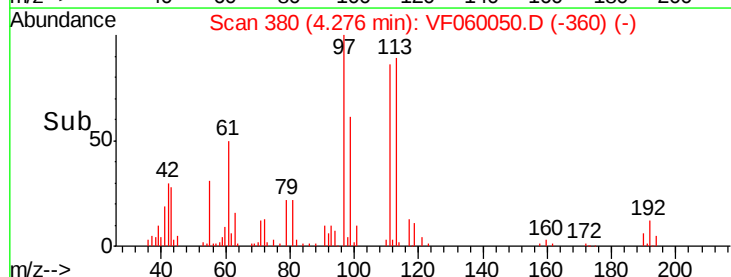
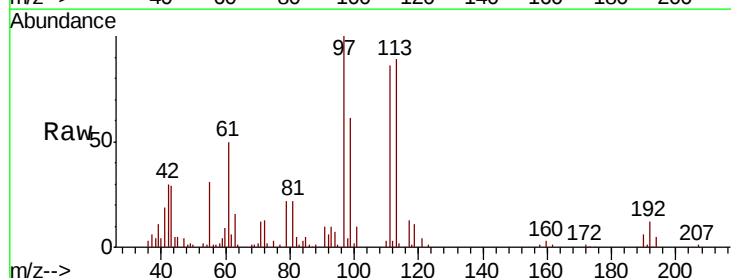
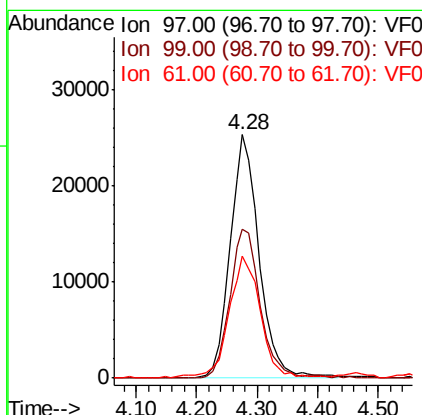
RT: 4.28 min Scan# 380

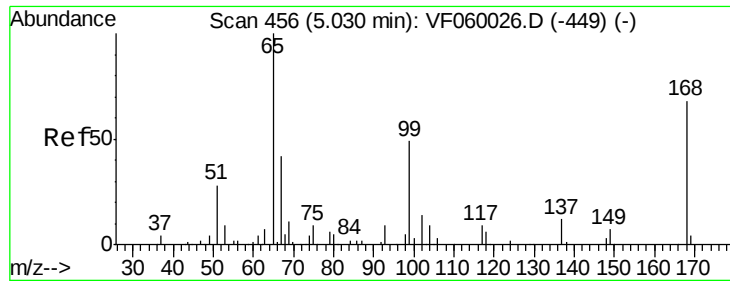
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	97	Resp:	83930
Ion Ratio	Lower	Upper	
97	100		
99	61.2	50.3	75.5
61	50.4	40.3	60.5





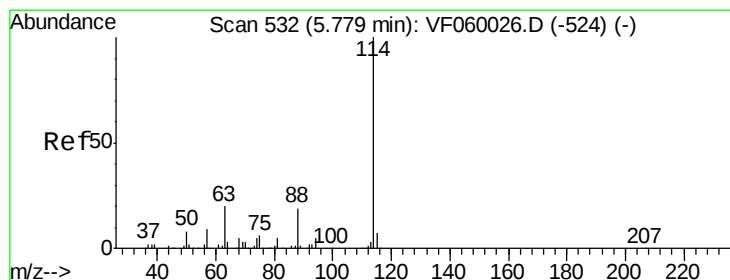
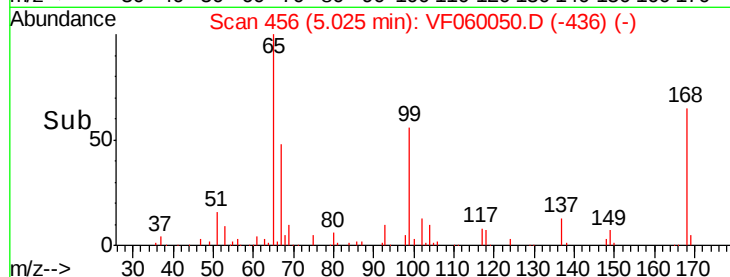
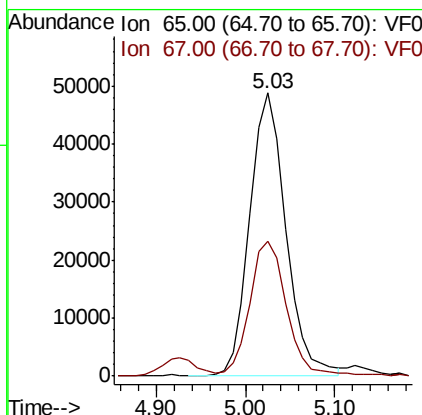
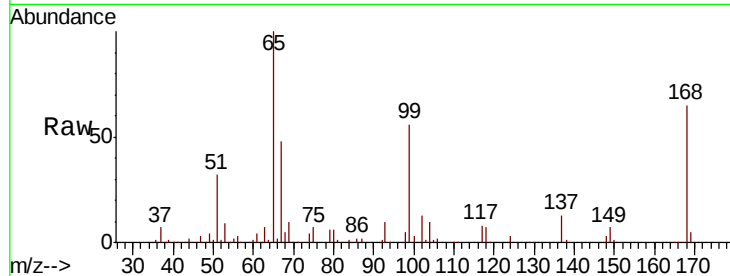
#33
 1,2-Dichloroethane-d4
 Concen: 48.79 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	136854		
67	47.6	0.0	92.0	

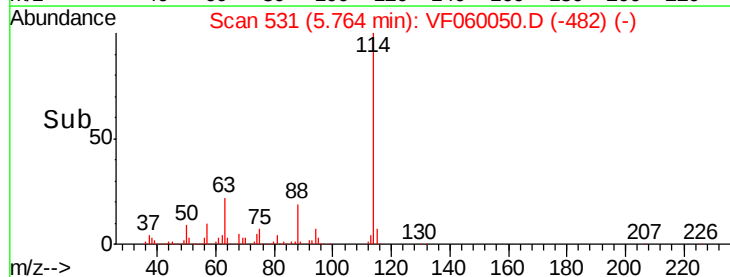
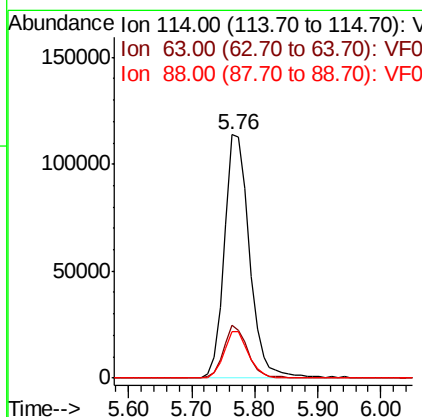
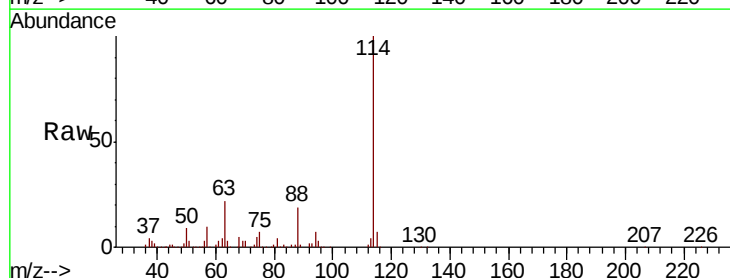
Manual Integrations
 APPROVED

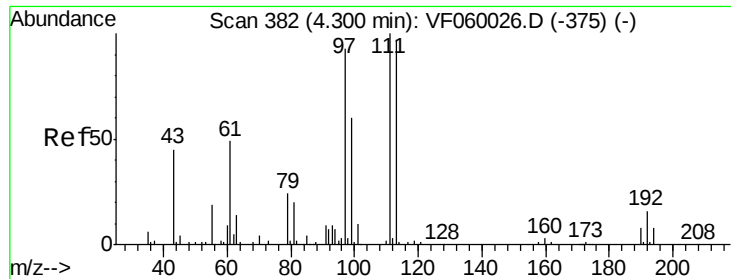
MMDadoda
 8/24/2018 4:08:41 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	314914		
63	21.8	0.0	40.4	
88	19.3	0.0	38.6	





#35

Dibromofluoromethane

Concen: 51.80 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

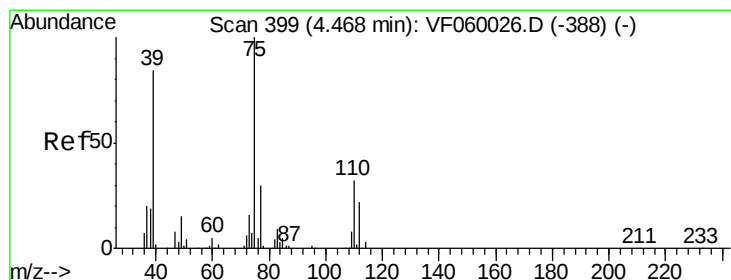
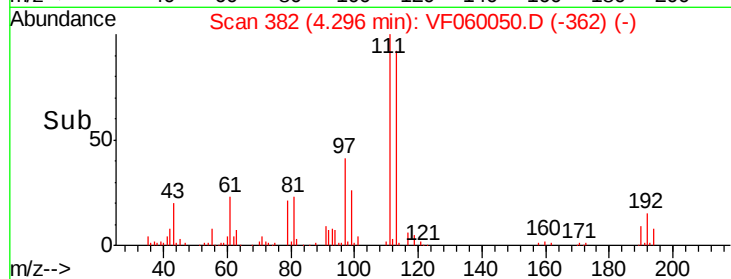
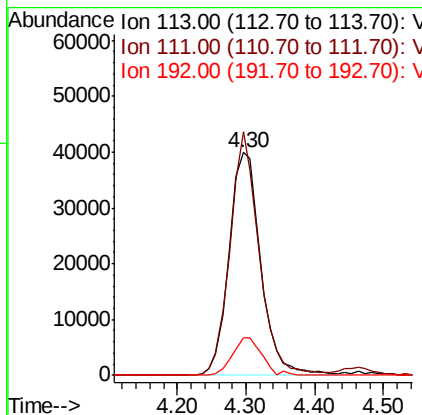
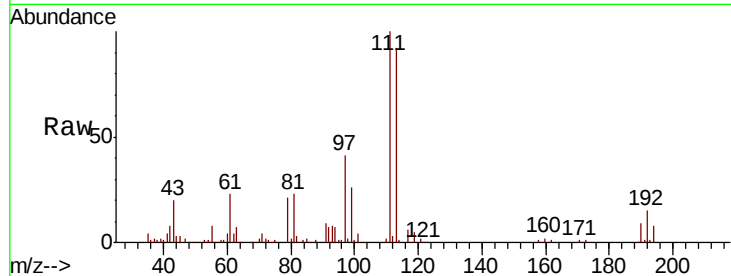
ClientSampleId :

VF0823SBS01

Tot Ion:	113	Resp:	128101
Ion Ratio	Lower	Upper	
113	100		
111	109.2	82.7	124.1
192	16.9	13.0	19.4

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#36

1,1-Dichloropropene

Concen: 21.80 ug/l

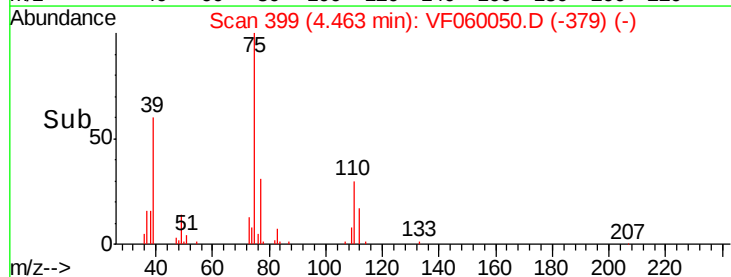
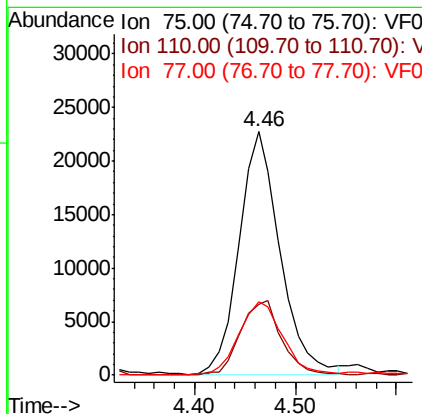
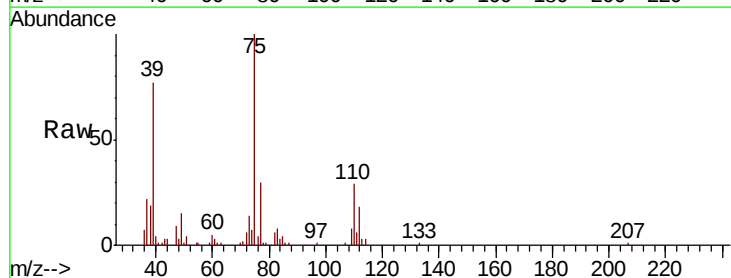
RT: 4.46 min Scan# 399

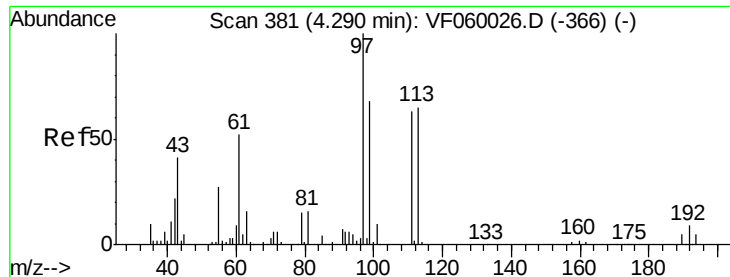
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	75	Resp:	64512
Ion Ratio	Lower	Upper	
75	100		
110	29.2	16.0	47.9
77	30.3	24.1	36.1





#37

Ethyl Acetate

Concen: 22.35 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.01 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

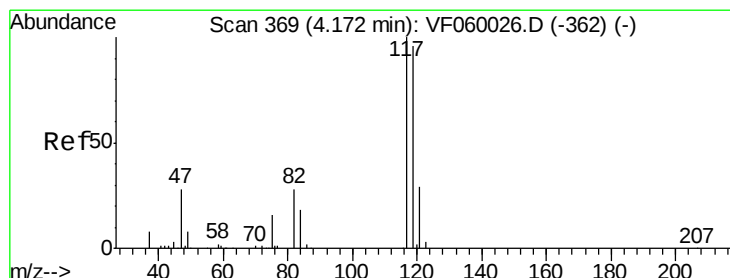
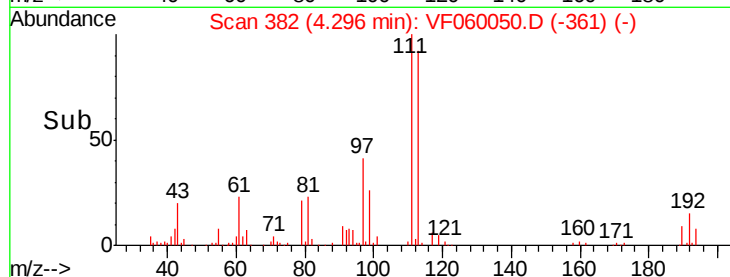
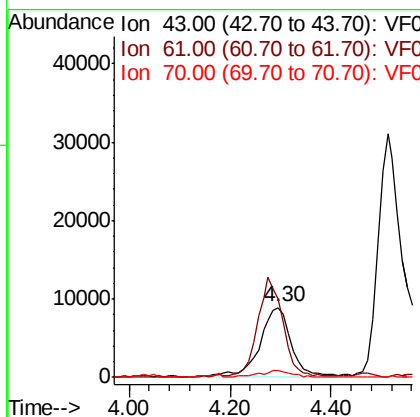
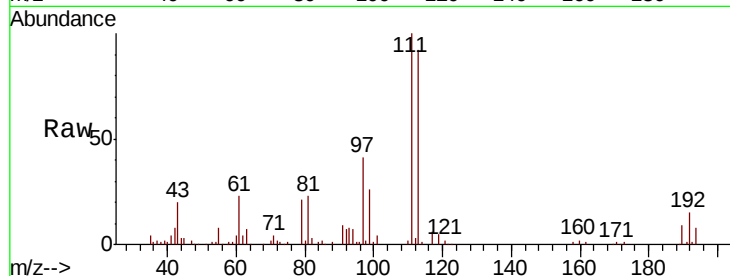
ClientSampleId :

VF0823SBS01

Tot Ion:	43	Resp:	39558
Ion Ratio	Lower	Upper	
43	100		
61	112.9	101.5	152.3
70	10.0	6.4	9.6#

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#38

Carbon Tetrachloride

Concen: 21.33 ug/l

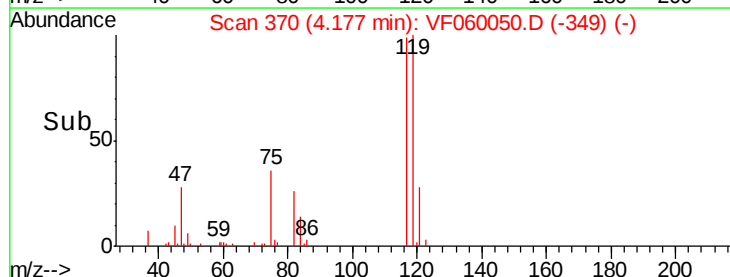
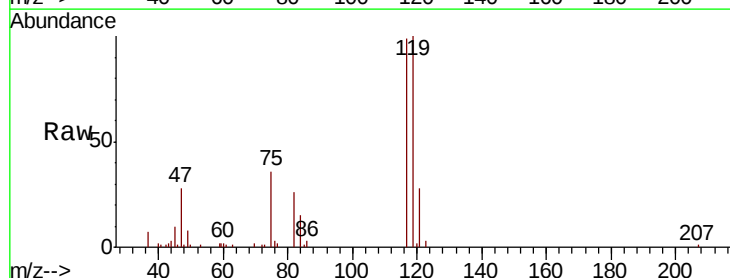
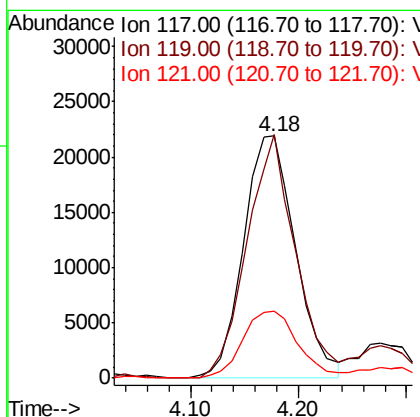
RT: 4.18 min Scan# 370

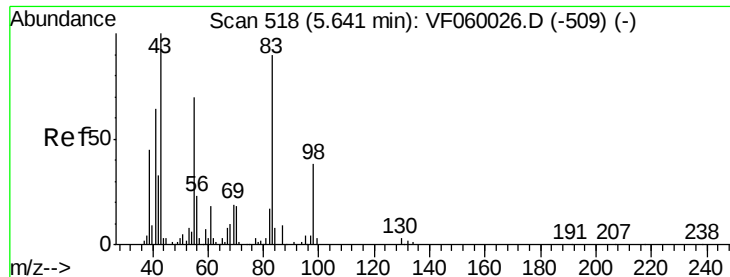
Delta R.T. 0.01 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	117	Resp:	73082
Ion Ratio	Lower	Upper	
117	100		
119	100.5	76.5	114.7
121	27.7	23.0	34.6





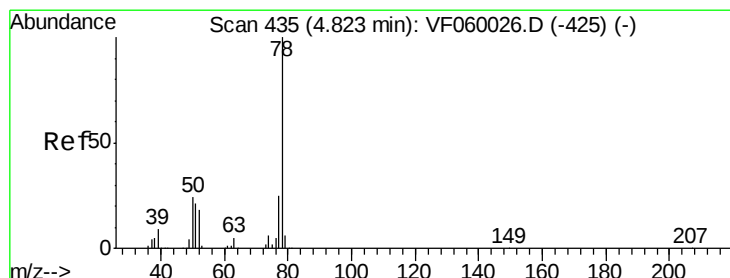
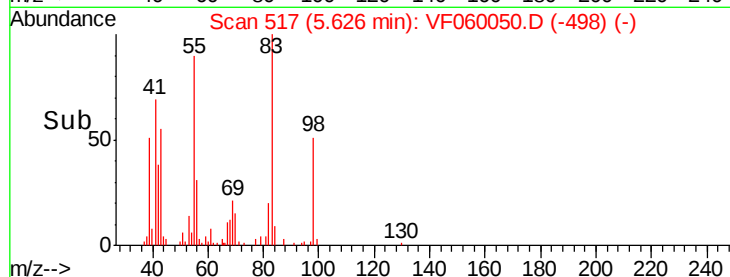
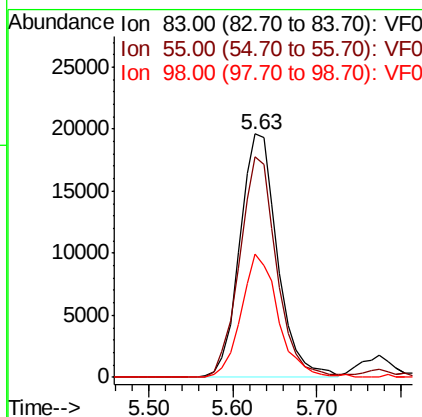
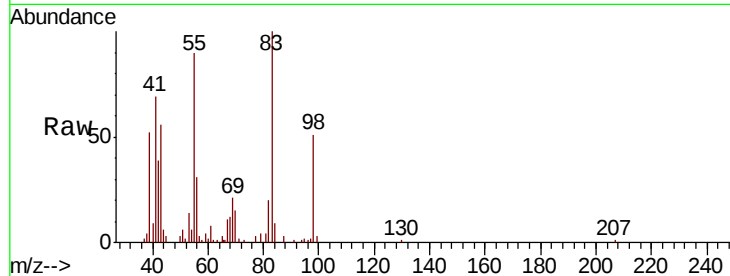
#39
Methvlcvclohexane
Concen: 22.12 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.01 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.3	62.7	94.1
98	50.7	33.8	50.8

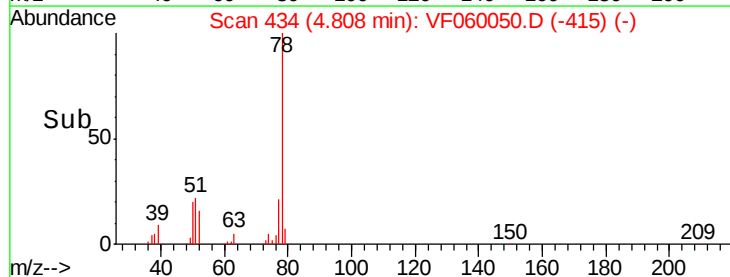
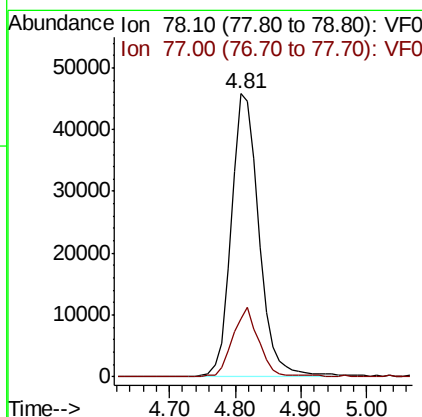
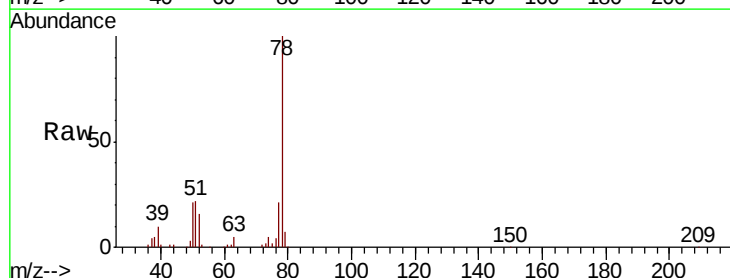
Manual Integrations
APPROVED

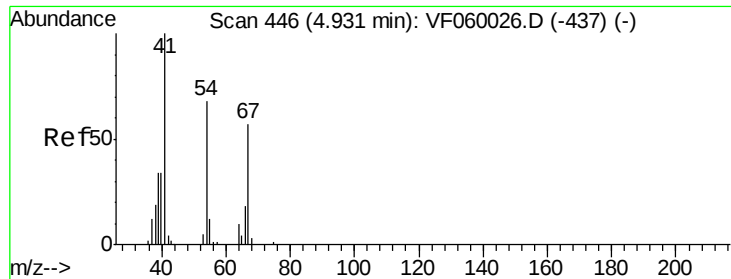
MMDadoda
8/24/2018 4:08:41 PM



#40
Benzene
Concen: 21.06 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.6	19.8	29.6





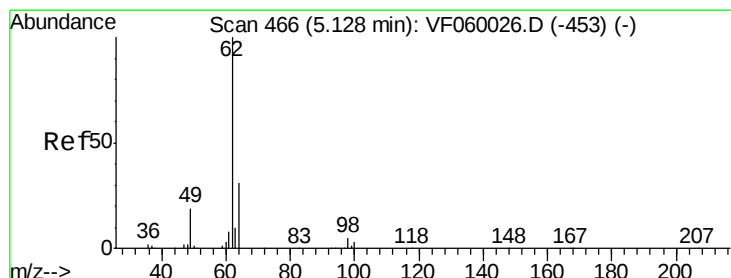
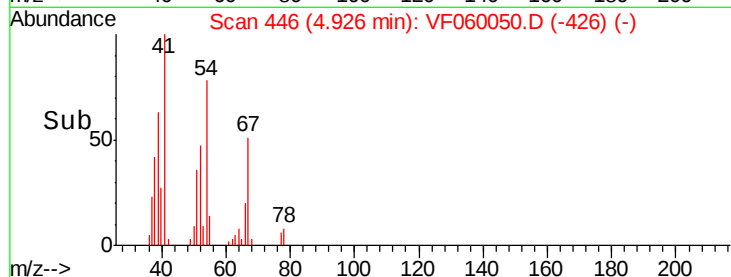
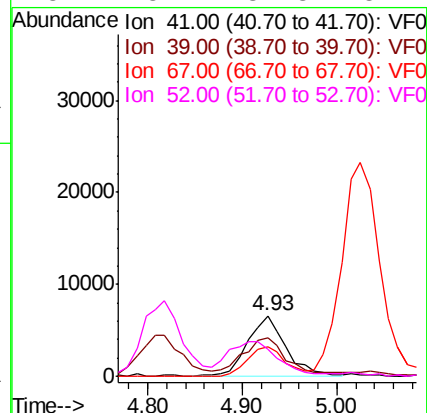
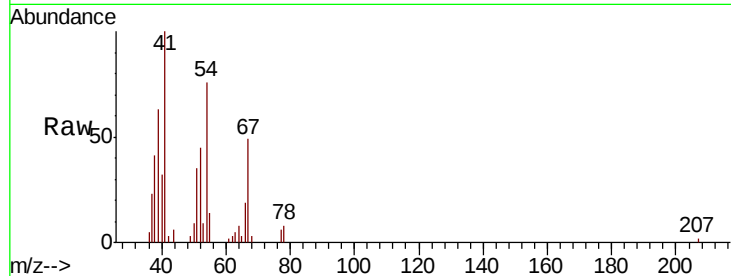
#41
Methacrylonitrile
Concen: 20.76 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion	41	Resp	18589
Ion Ratio	Lower	Upper	
41	100		
39	63.2	52.9	79.3
67	49.5	45.3	67.9
52	45.4	34.8	52.2

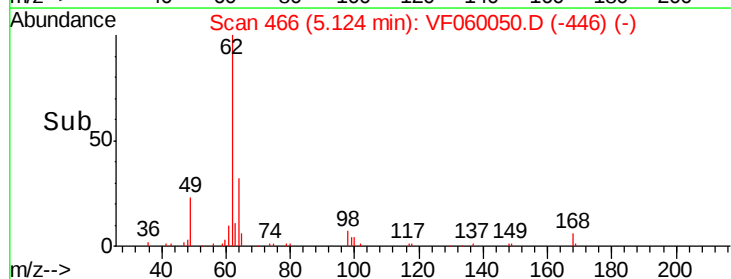
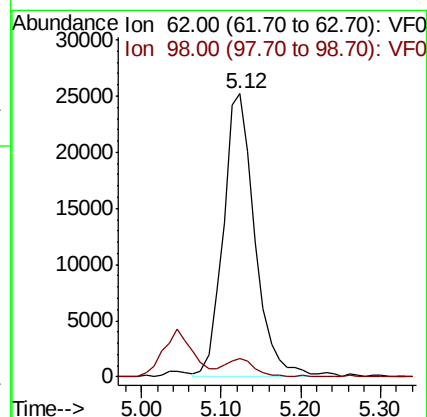
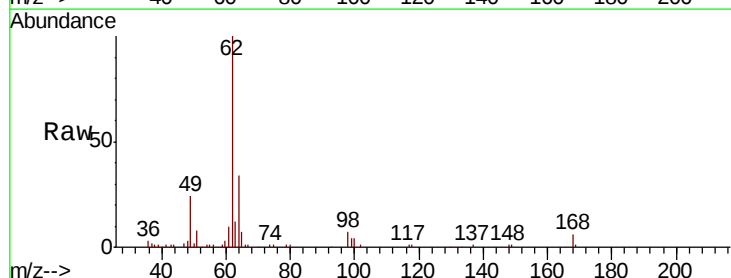
Manual Integrations
APPROVED

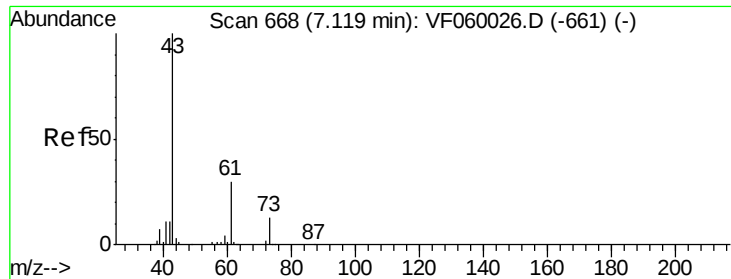
MMDadoda
8/24/2018 4:08:41 PM



#42
1,2-Dichloroethane
Concen: 20.37 ug/l
RT: 5.12 min Scan# 466
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion	62	Resp	70613
Ion Ratio	Lower	Upper	
62	100		
98	6.6	0.0	11.2





#43

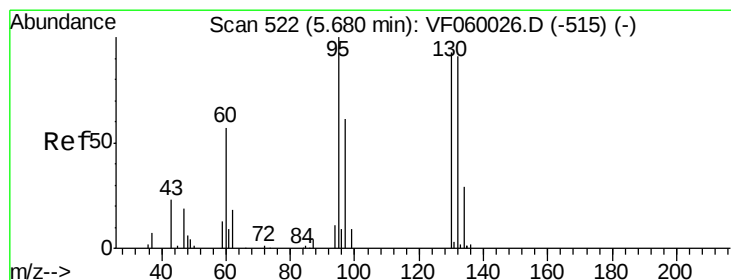
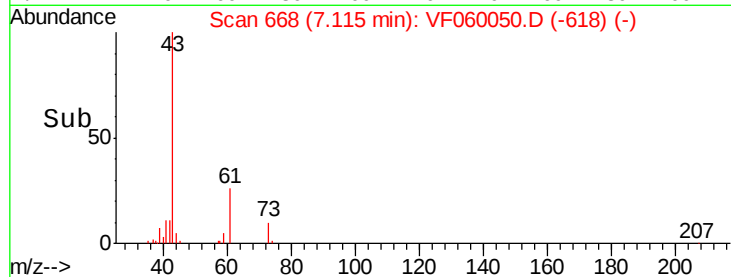
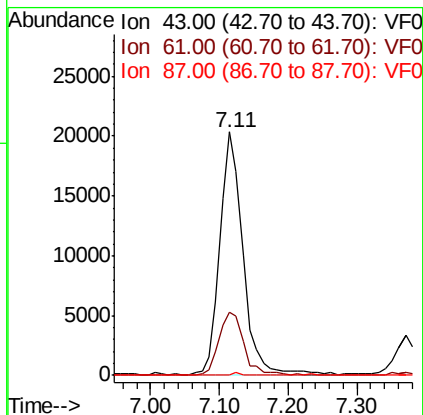
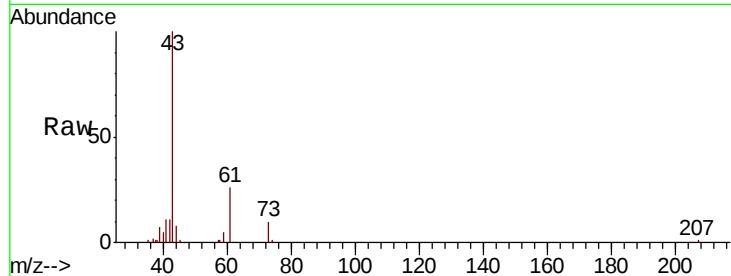
Isopropyl Acetate
 Concen: 21.43 ug/l
 RT: 7.11 min Scan# 668
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.1	23.8	35.6
87	0.0	0.2	0.4

Manual Integrations
 APPROVED

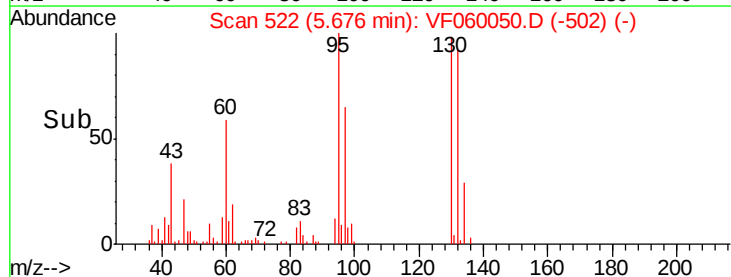
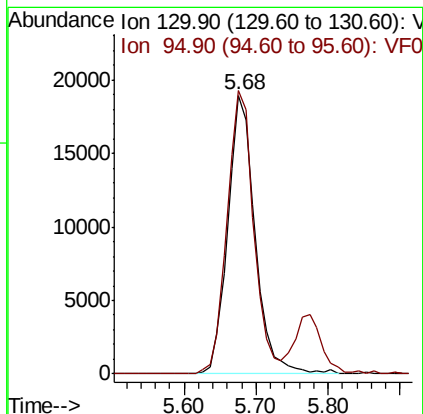
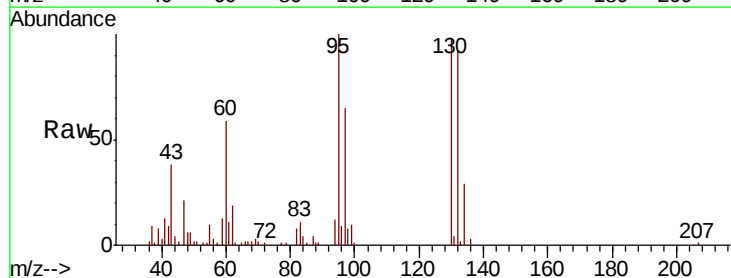
MMDadoda
 8/24/2018 4:08:41 PM



#44

Trichloroethene
 Concen: 23.39 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	215.8





#45

1,2-Dichloropropane

Concen: 21.61 ug/l

RT: 6.41 min Scan# 596

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 63 Resp: 39510

Ion Ratio Lower Upper

63 100

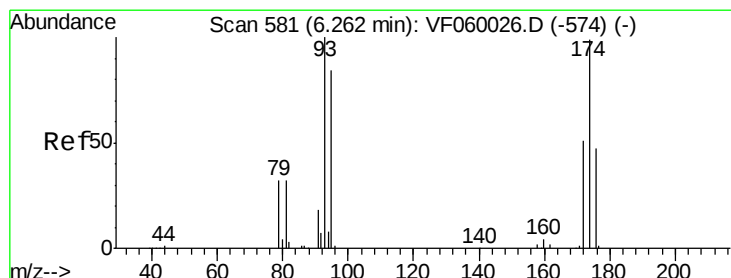
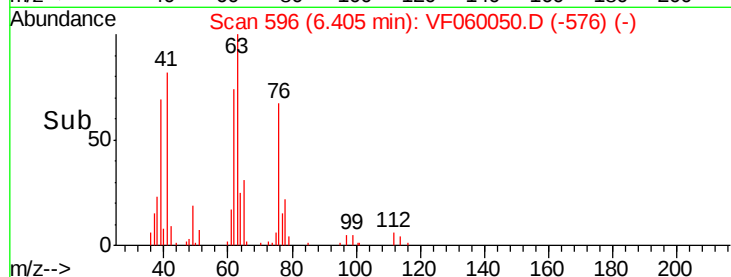
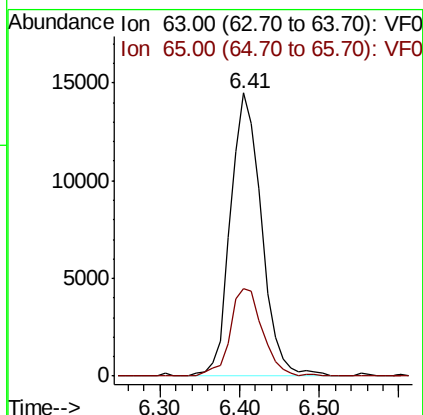
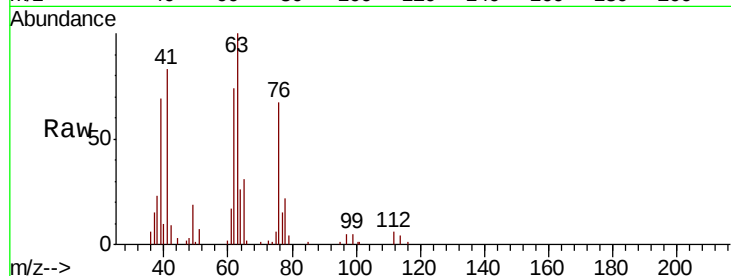
65 31.0 23.8 35.6

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#46

Dibromomethane

Concen: 22.05 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

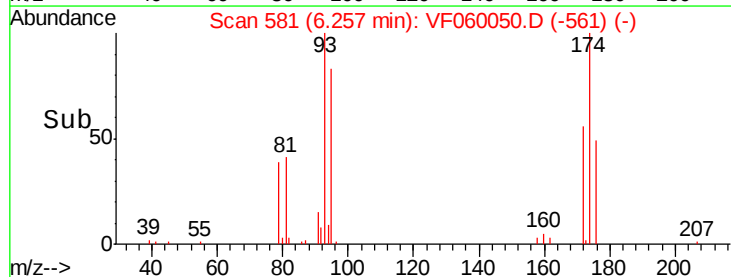
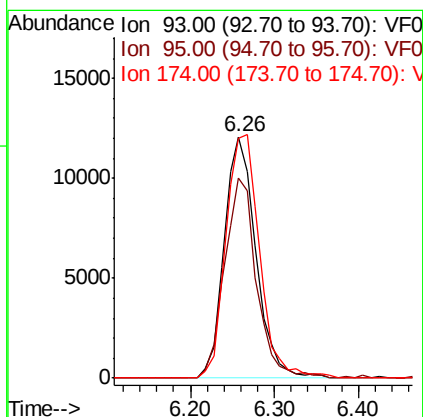
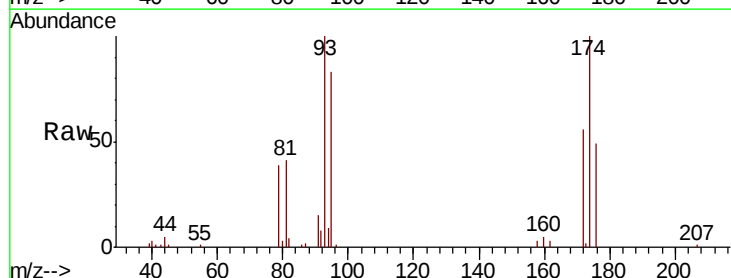
Tgt Ion: 93 Resp: 31554

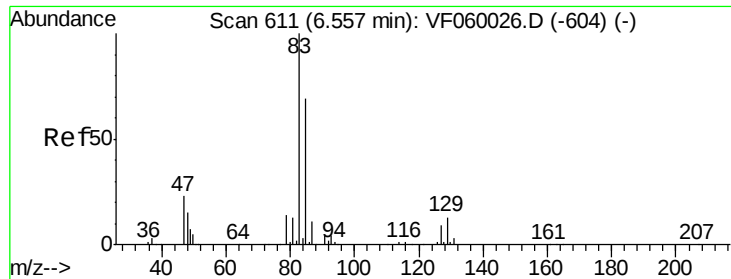
Ion Ratio Lower Upper

93 100

95 82.9 67.1 100.7

174 99.7 79.0 118.4





#47

Bromodichloromethane

Concen: 21.38 ug/l

RT: 6.55 min Scan# 611

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

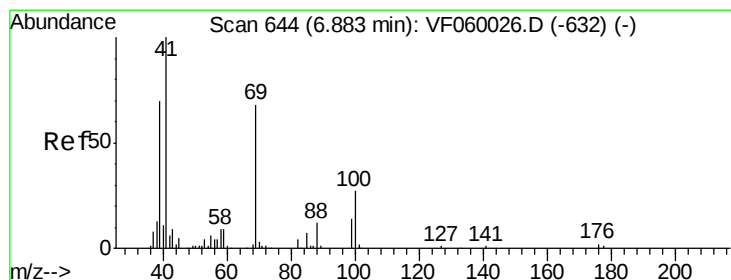
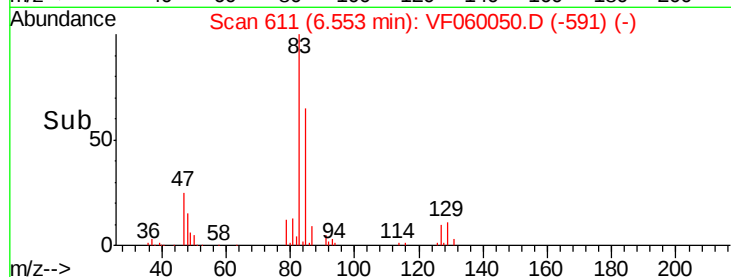
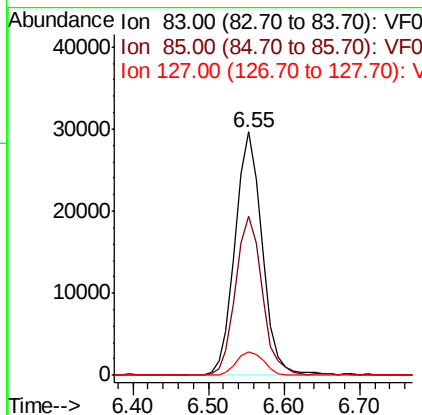
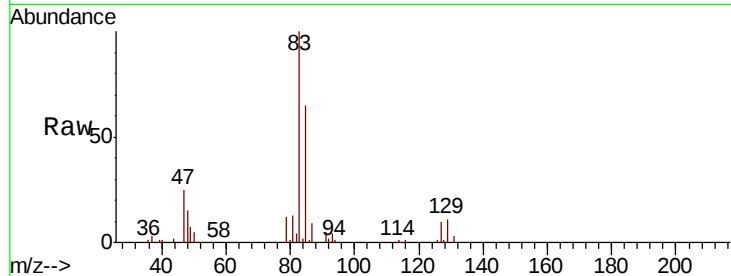
ClientSampleId :

VF0823SBS01

Tot Ion:	83	Resp:	73886
Ion	Ratio	Lower	Upper
83	100		
85	65.5	55.2	82.8
127	9.9	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#48

Methyl methacrylate

Concen: 20.22 ug/l

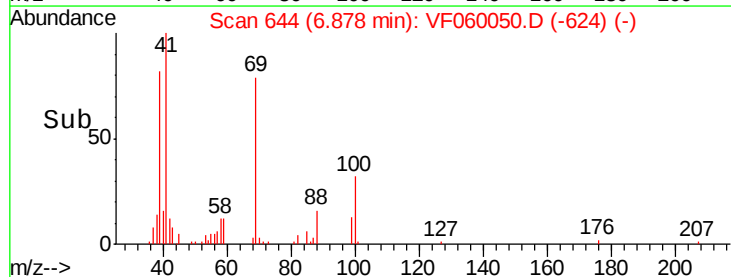
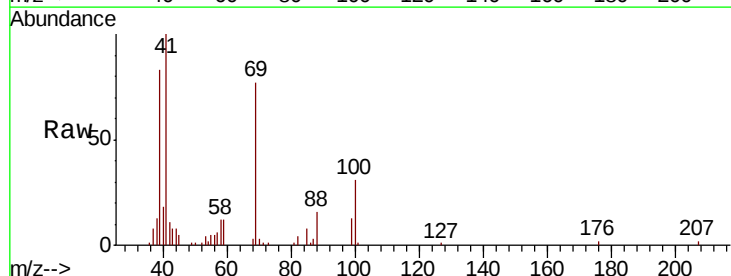
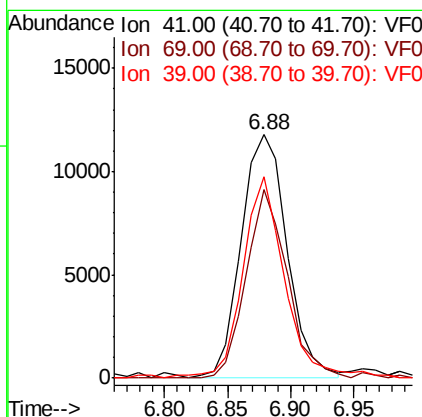
RT: 6.88 min Scan# 644

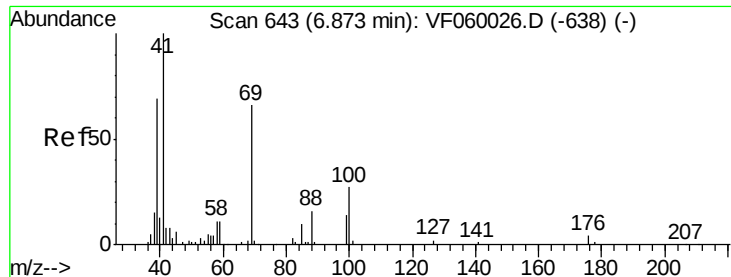
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	41	Resp:	29807
Ion	Ratio	Lower	Upper
41	100		
69	77.4	54.6	81.8
39	82.7	56.5	84.7





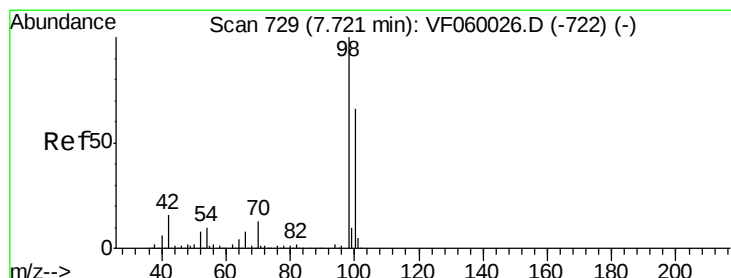
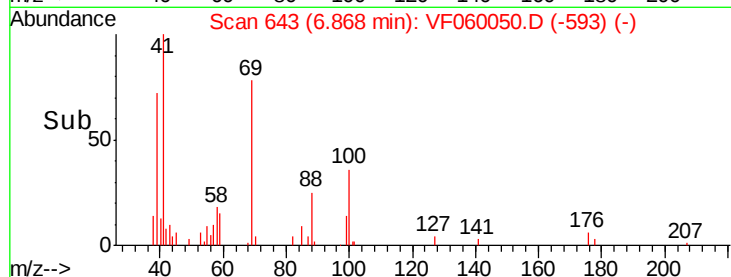
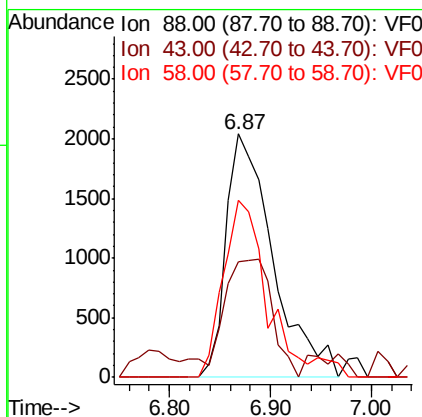
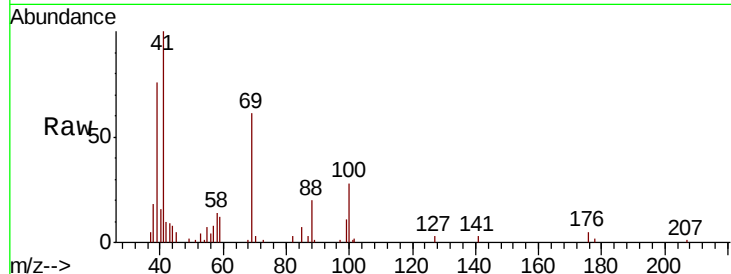
#49
1,4-Dioxane
Concen: 467.19 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	47.7	46.5	69.7
58	72.7	54.8	82.2

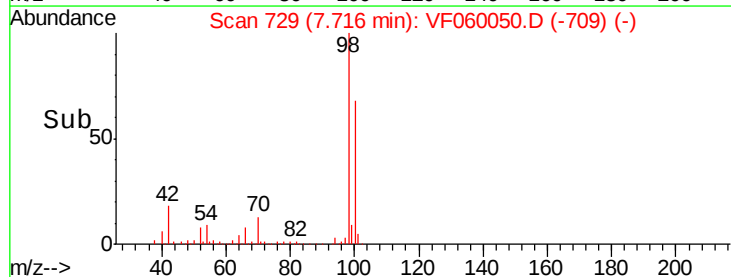
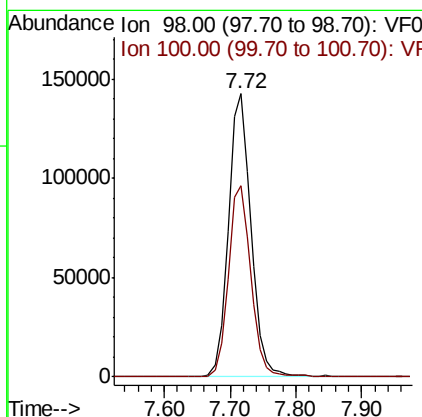
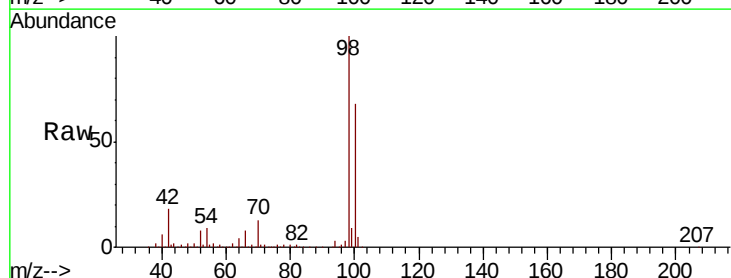
Manual Integrations
APPROVED

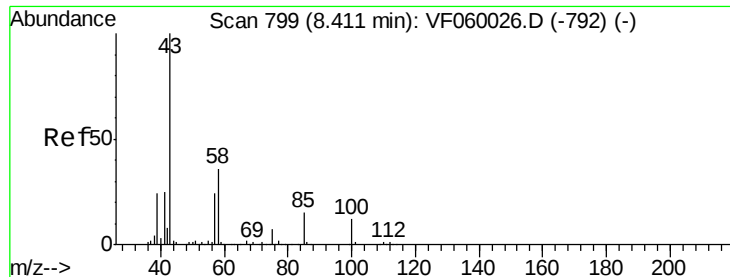
MMDadoda
8/24/2018 4:08:41 PM



#50
Toluene-d8
Concen: 48.85 ug/l
RT: 7.72 min Scan# 729
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.2	79.8





#51

4-Methyl-2-Pentanone

Concen: 116.83 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 43 Resp: 224748

Ion Ratio Lower Upper

43 100

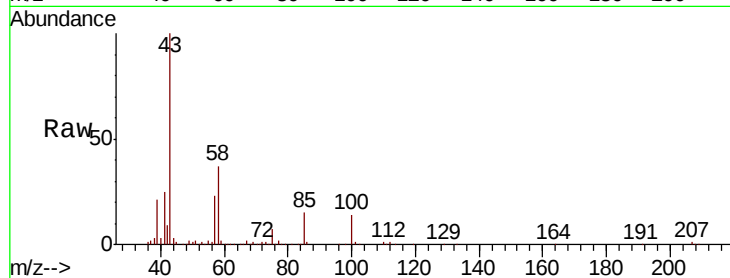
58 37.0 28.6 42.8

Manual Integrations

APPROVED

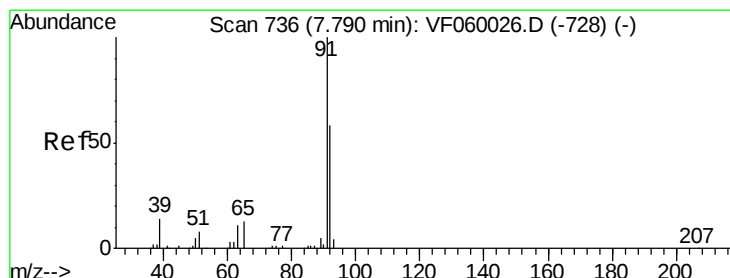
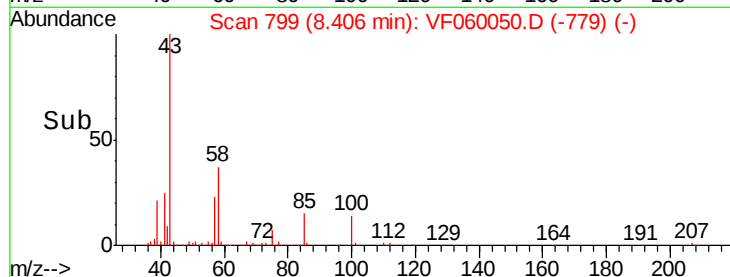
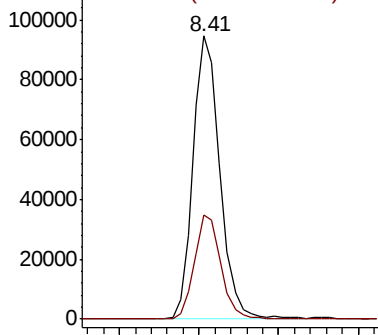
MMDadoda

8/24/2018 4:08:41 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.34 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF060050.D

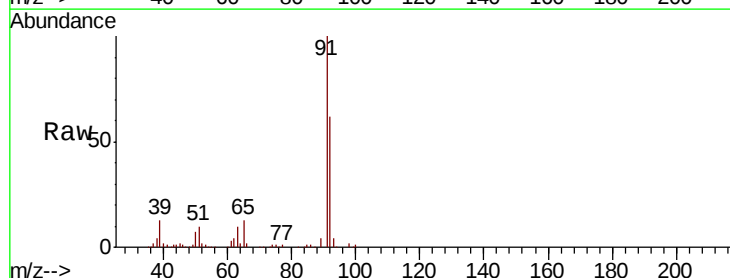
Acq: 23 Aug 2018 13:50

Tgt Ion: 92 Resp: 104195

Ion Ratio Lower Upper

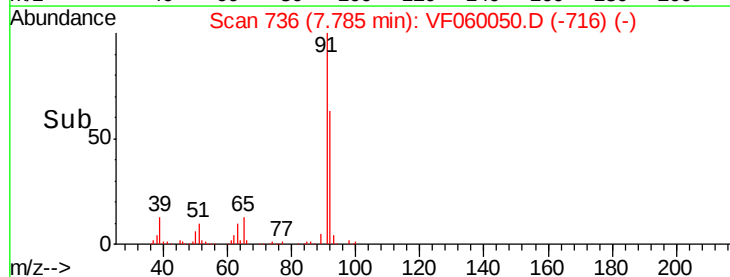
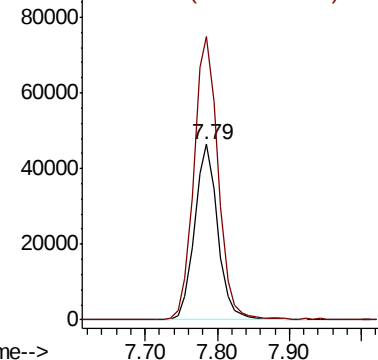
92 100

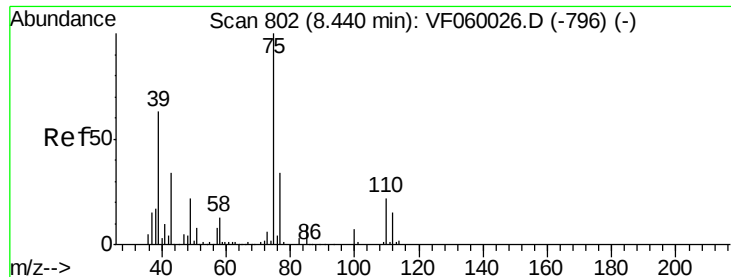
91 161.2 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 22.05 ug/l

RT: 8.44 min Scan# 802

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 75 Resp: 69118

Ion Ratio Lower Upper

75 100

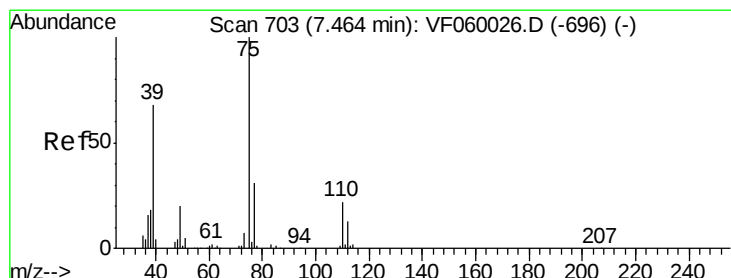
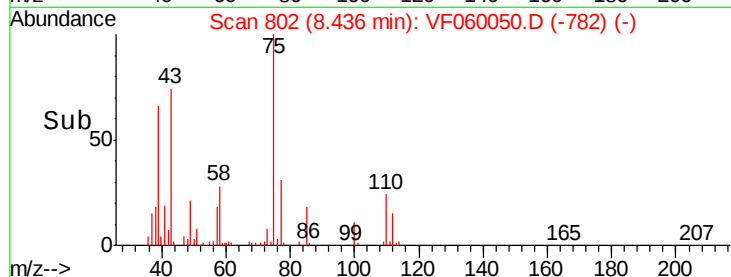
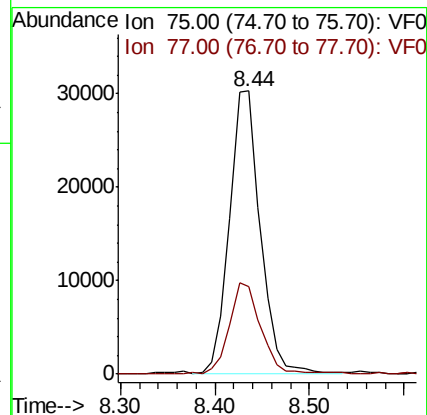
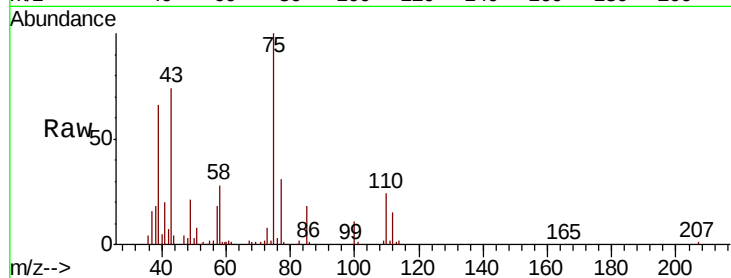
77 30.8 27.4 41.2

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#54

cis-1,3-Dichloropropene

Concen: 22.42 ug/l

RT: 7.46 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

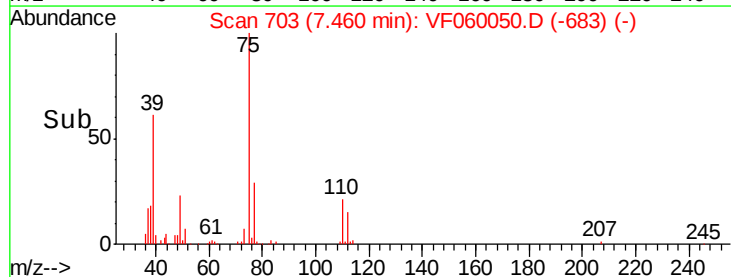
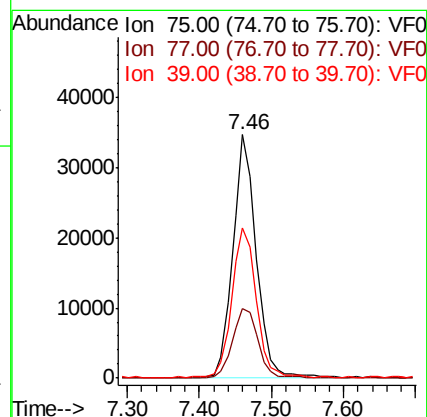
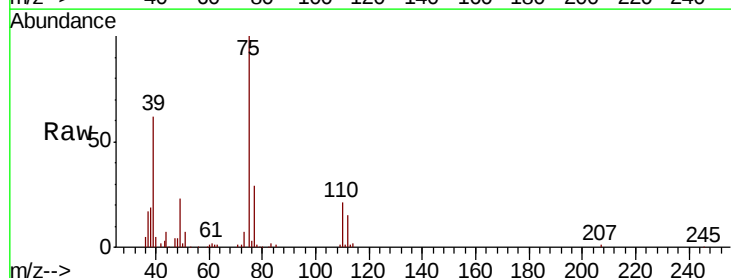
Tgt Ion: 75 Resp: 78412

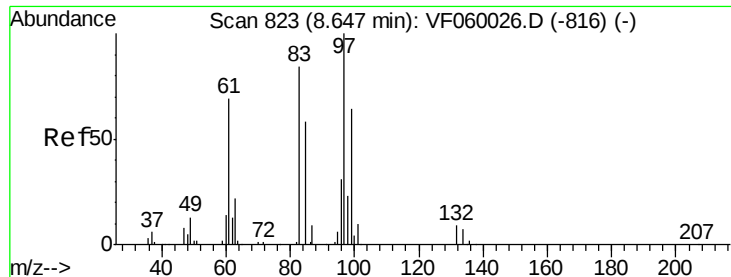
Ion Ratio Lower Upper

75 100

77 28.5 24.6 37.0

39 61.8 54.6 81.8





#55

1,1,2-Trichloroethane

Concen: 21.25 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

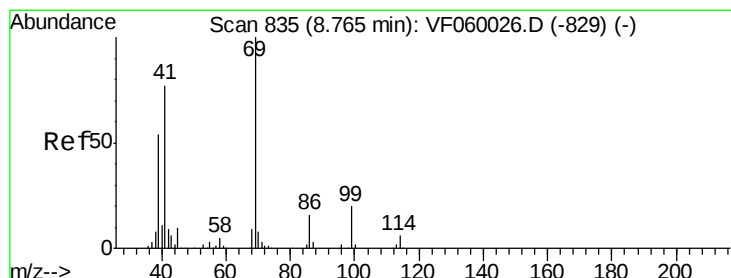
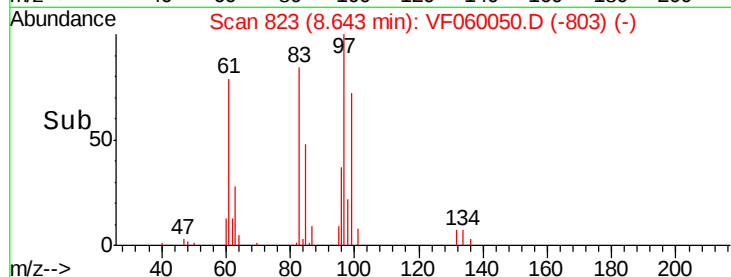
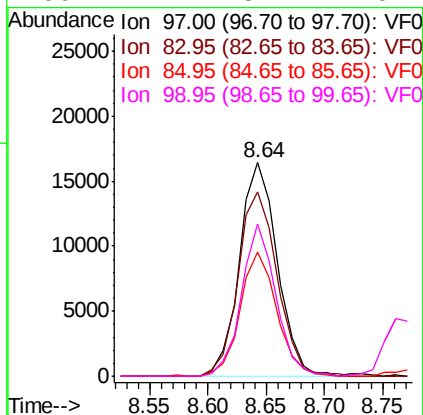
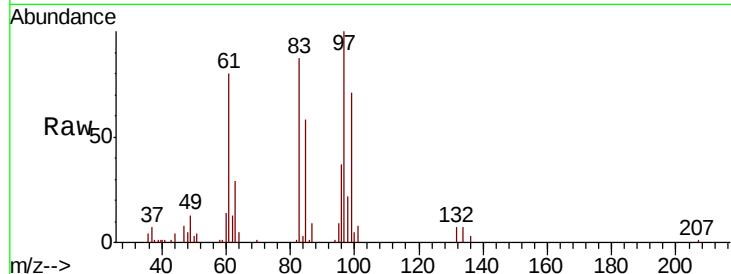
ClientSampleId :

VF0823SBS01

Tot Ion:	97	Resp:	37071
Ion	Ratio	Lower	Upper
97	100		
83	86.6	67.4	101.2
85	58.4	46.2	69.2
99	71.2	51.1	76.7

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#56

Ethyl methacrylate

Concen: 21.20 ug/l

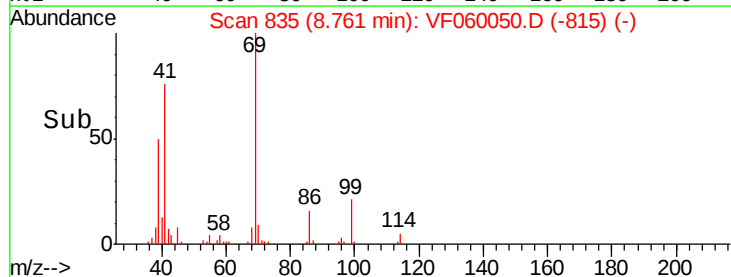
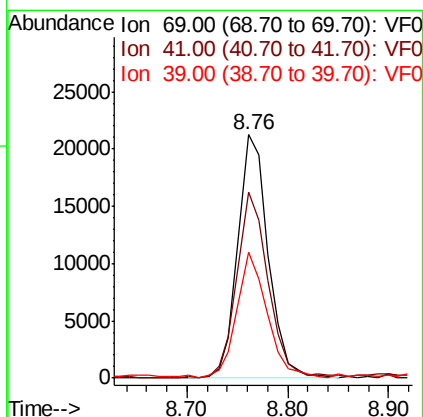
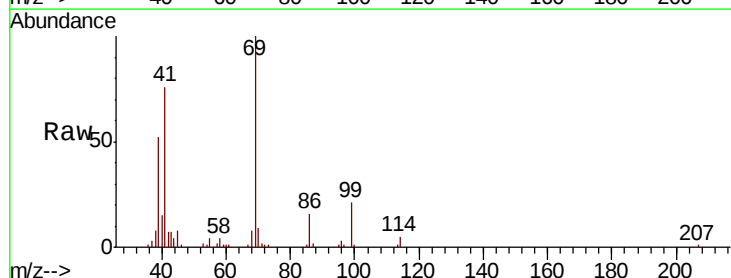
RT: 8.76 min Scan# 835

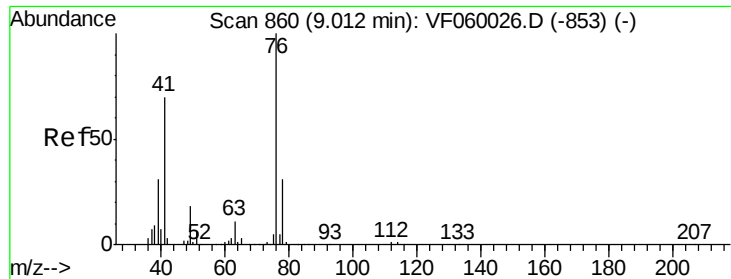
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	69	Resp:	44753
Ion	Ratio	Lower	Upper
69	100		
41	76.4	61.6	92.4
39	51.7	43.9	65.9





#57

1,3-Dichloropropane

Concen: 22.23 ug/l

RT: 9.01 min Scan# 860

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 76 Resp: 68153

Ion Ratio Lower Upper

76 100

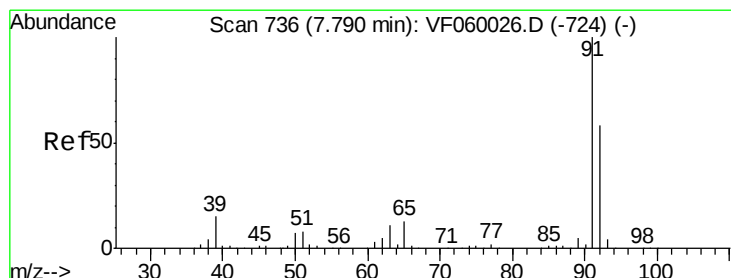
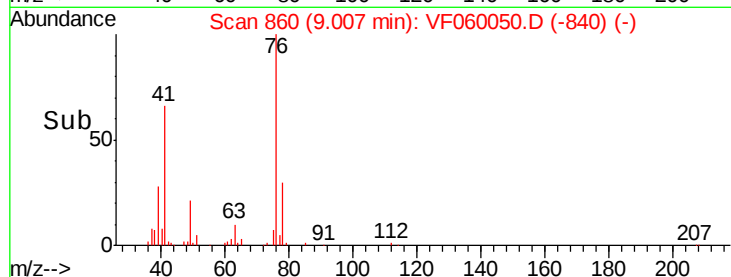
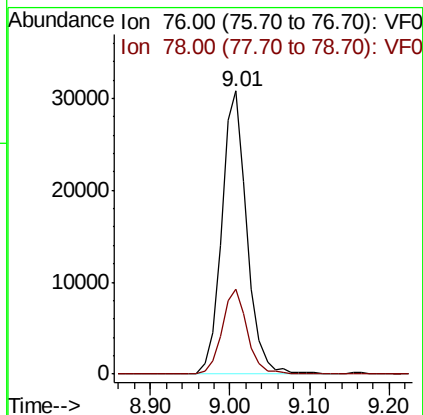
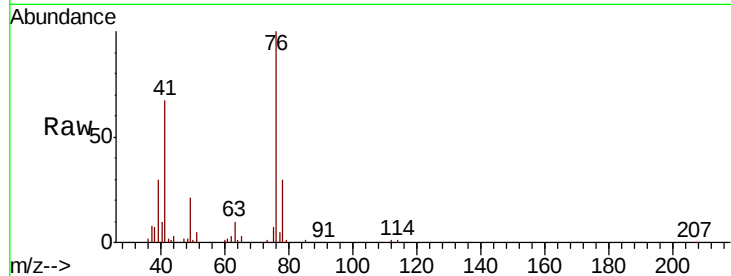
78 30.2 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#58

2-Chloroethyl Vinyl ether

Concen: 100.07 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF060050.D

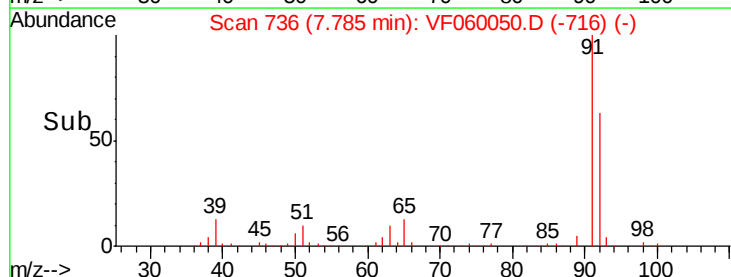
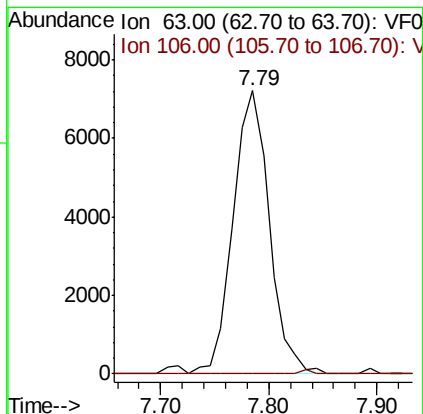
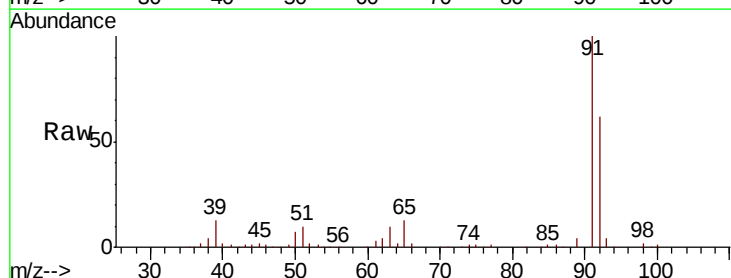
Acq: 23 Aug 2018 13:50

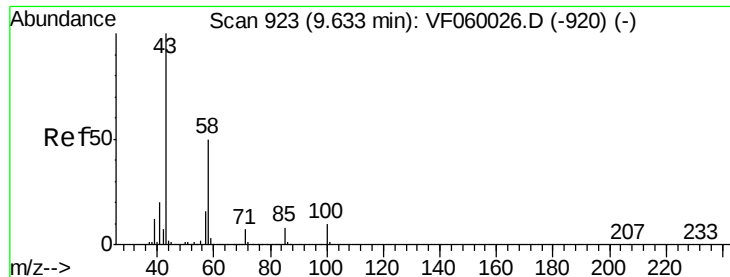
Tgt Ion: 63 Resp: 16771

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





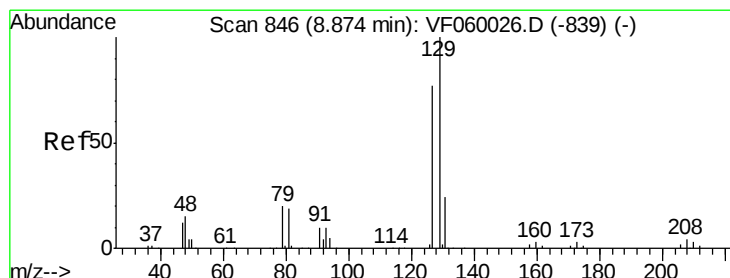
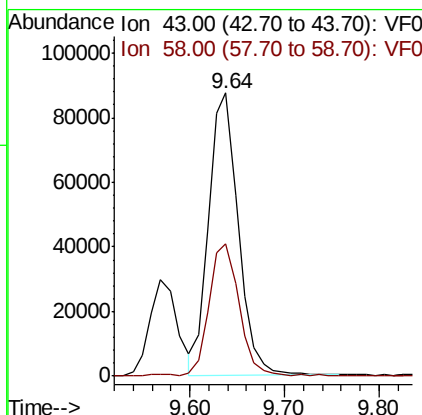
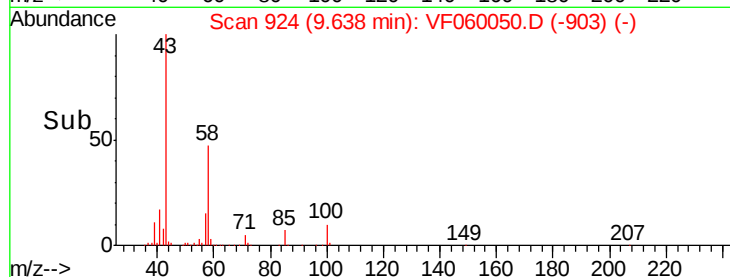
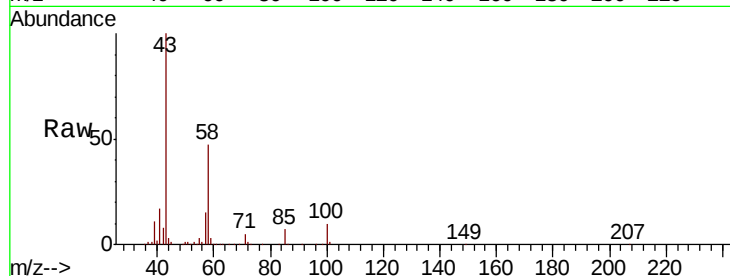
#59
2-Hexanone
Concen: 122.93 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.01 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion: 43 Resp: 191398
Ion Ratio Lower Upper
43 100
58 46.8 23.4 70.2

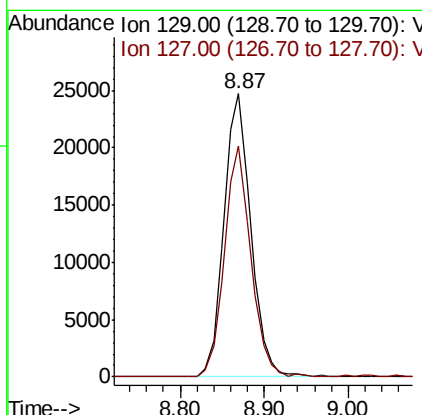
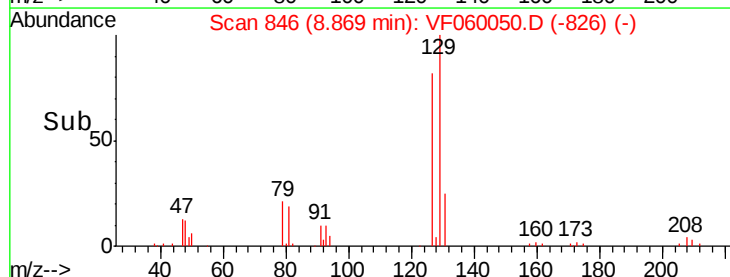
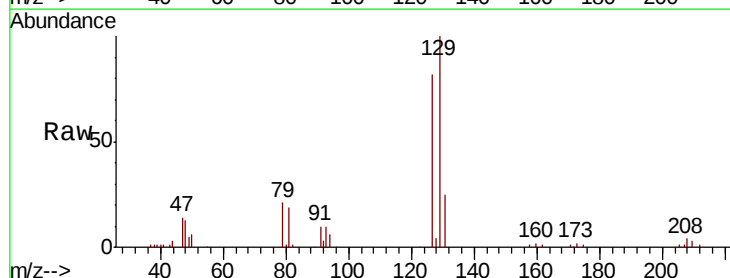
Manual Integrations
APPROVED

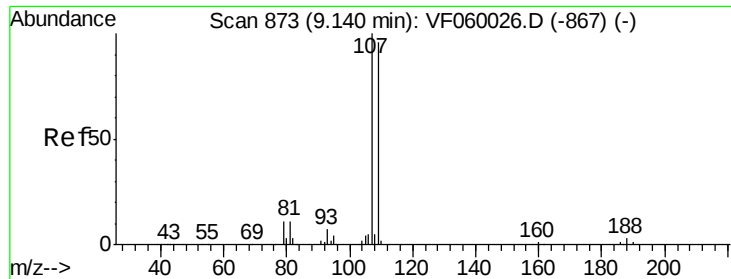
MMDadoda
8/24/2018 4:08:41 PM



#60
Dibromochloromethane
Concen: 21.28 ug/l
RT: 8.87 min Scan# 846
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion: 129 Resp: 54792
Ion Ratio Lower Upper
129 100
127 81.6 38.6 115.8





#61

1,2-Dibromoethane

Concen: 21.36 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.01 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 107 Resp: 43767

Ion Ratio Lower Upper

107 100

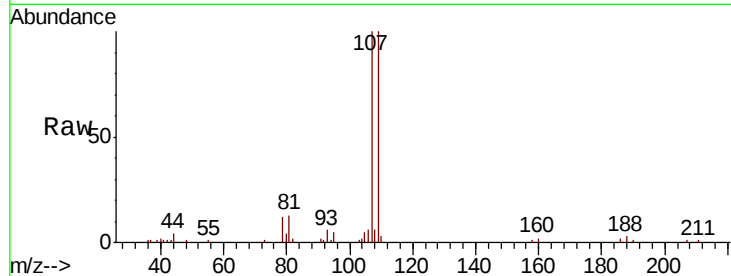
109 100.2 76.5 114.7

Manual Integrations

APPROVED

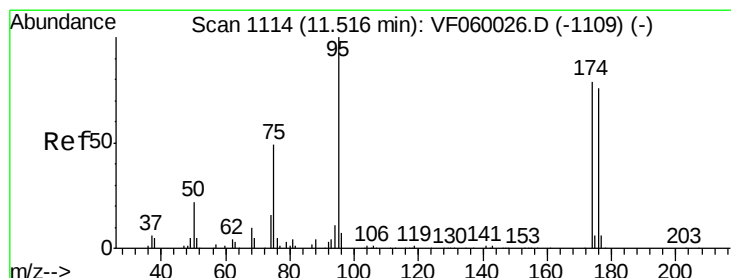
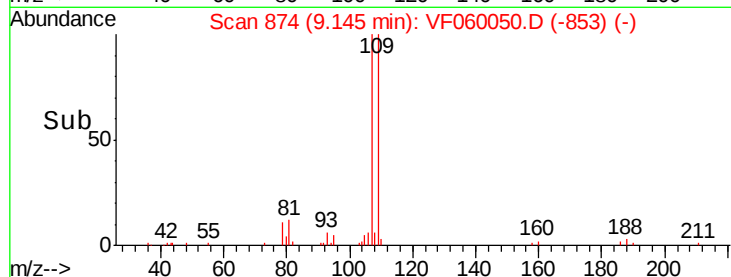
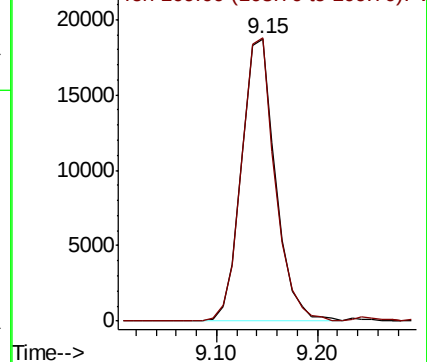
MMDadoda

8/24/2018 4:08:41 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.43 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

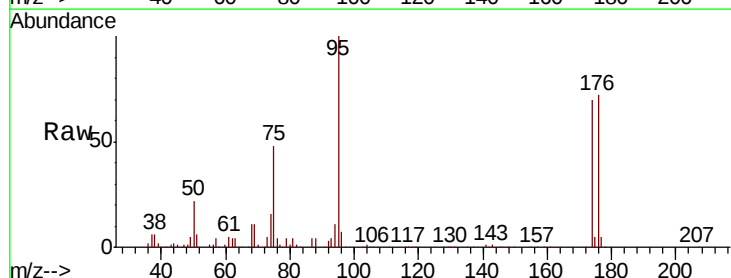
Tgt Ion: 95 Resp: 194802

Ion Ratio Lower Upper

95 100

174 70.2 0.0 158.4

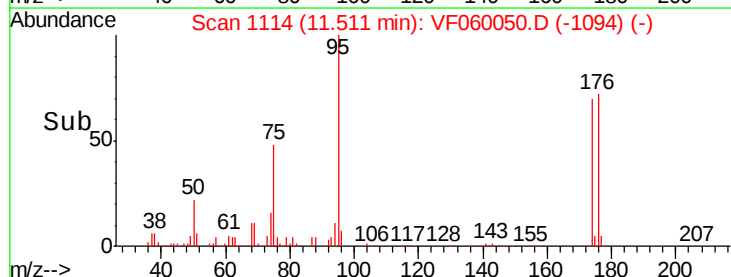
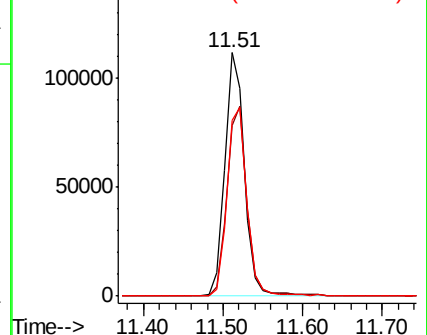
176 72.2 0.0 153.0

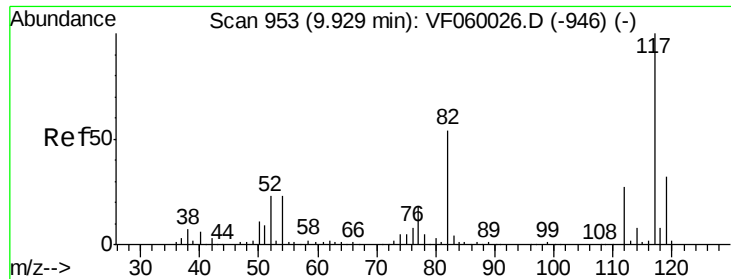


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





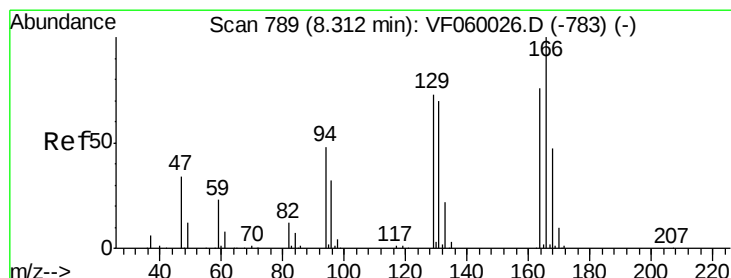
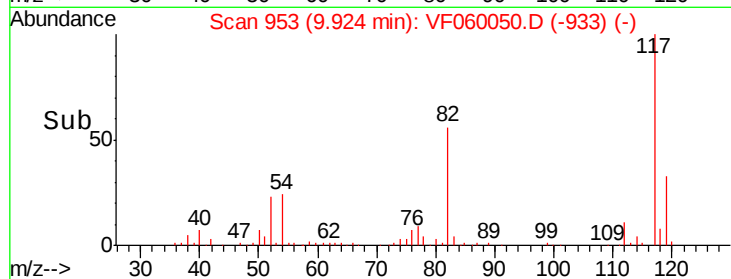
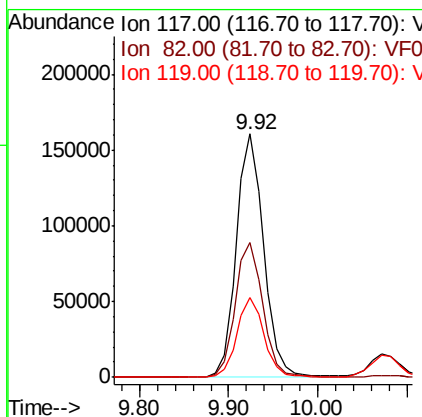
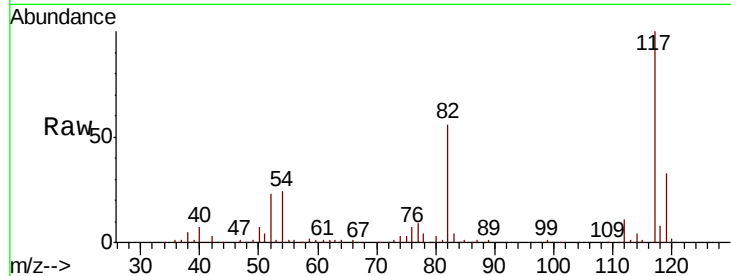
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.6	65.4
119	32.9	25.6	38.4

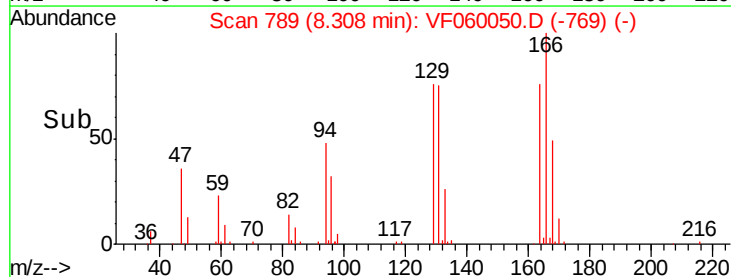
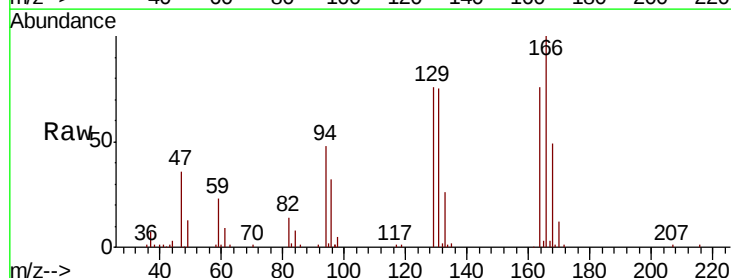
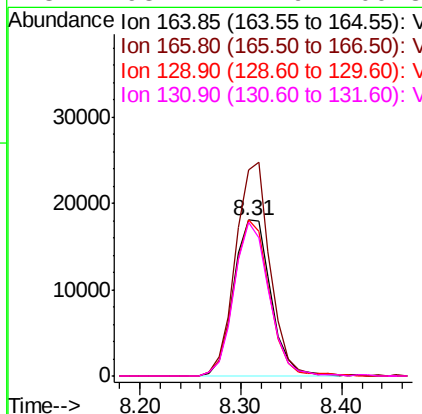
Manual Integrations
APPROVED

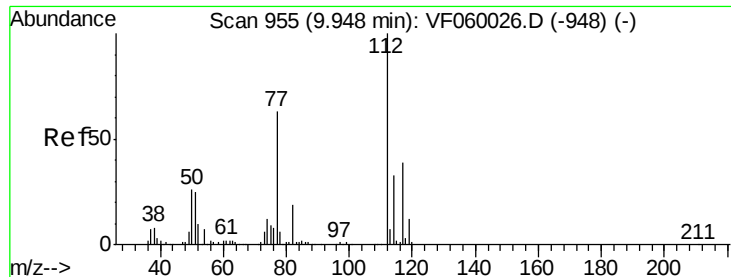
MMDadoda
8/24/2018 4:08:41 PM



#64
Tetrachloroethene
Concen: 19.88 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.3	104.7	157.1
129	100.4	77.0	115.4
131	98.7	72.9	109.3





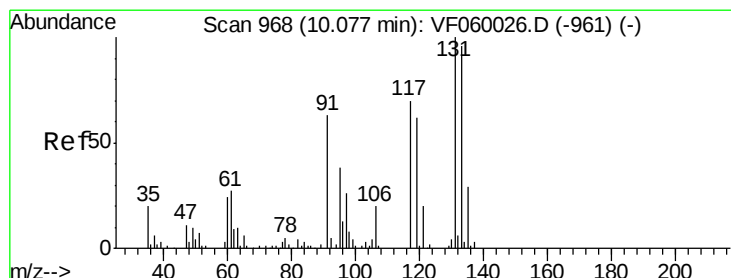
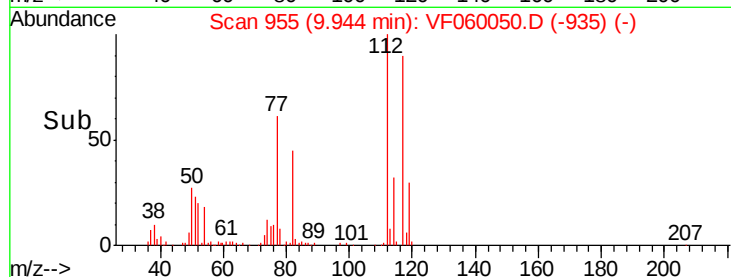
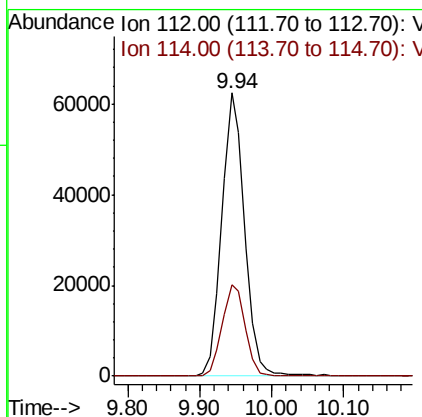
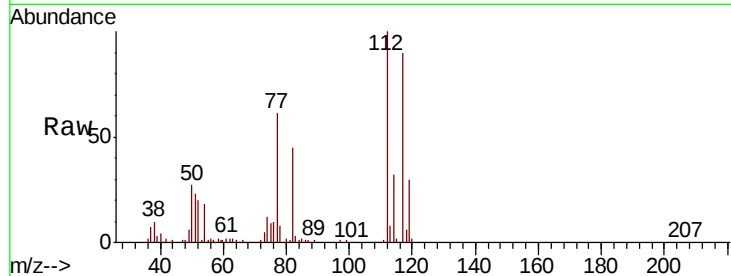
#65
Chlorobenzene
Concen: 21.00 ug/l
RT: 9.94 min Scan# 955
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.2	26.2	39.2

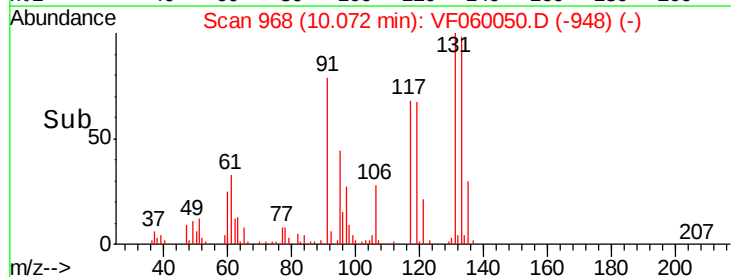
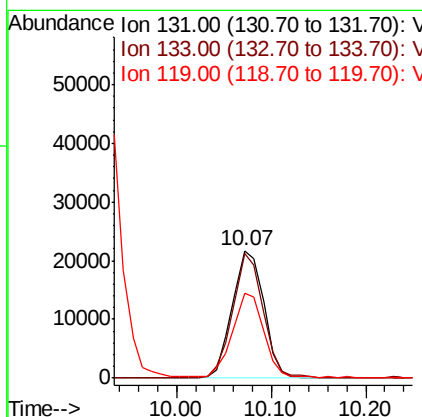
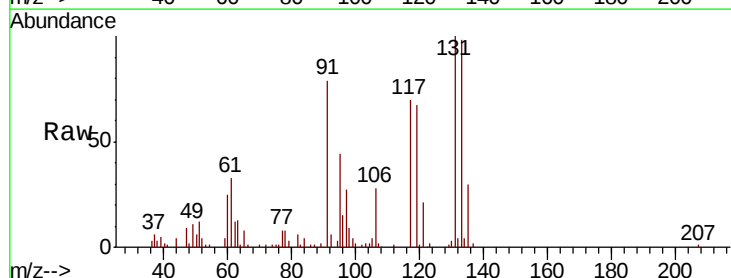
Manual Integrations
APPROVED

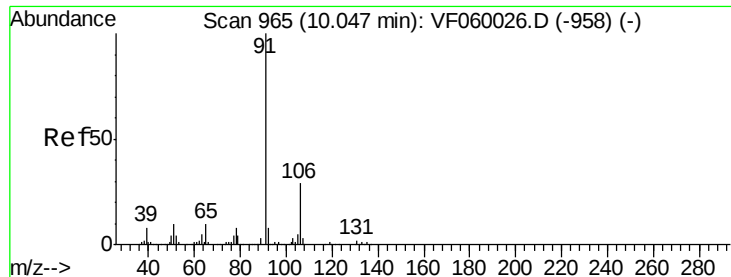
MMDadoda
8/24/2018 4:08:41 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.38 ug/l
RT: 10.07 min Scan# 968
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.8	48.2	144.6
119	66.9	31.4	94.2





#67

Ethyl Benzene

Concen: 21.54 ug/l

RT: 10.04 min Scan# 965

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 91 Resp: 241801

Ion Ratio Lower Upper

91 100

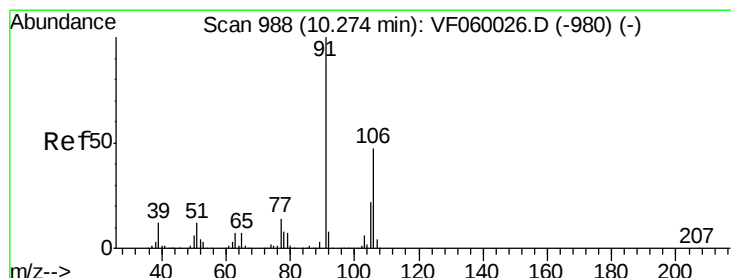
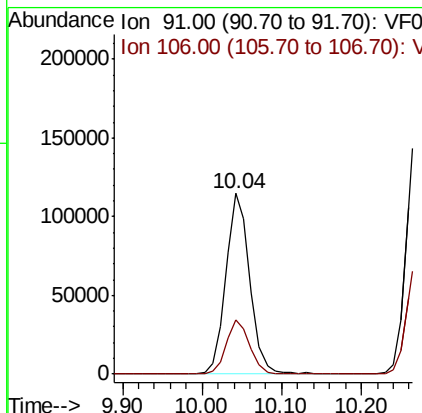
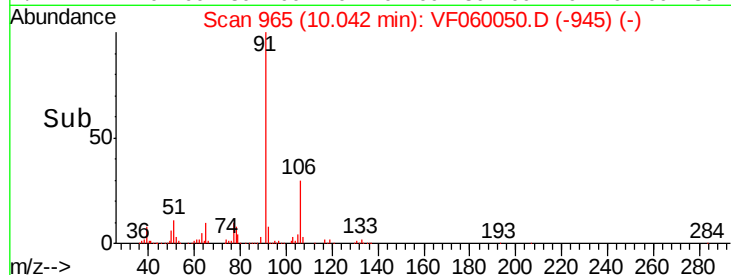
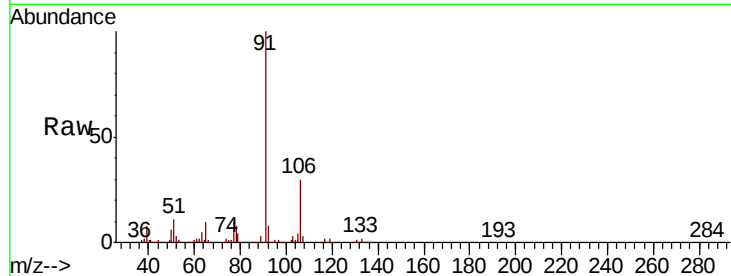
106 29.7 23.6 35.4

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#68

m/p-Xylenes

Concen: 43.47 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF060050.D

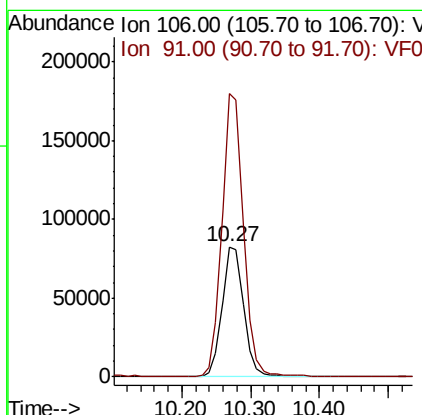
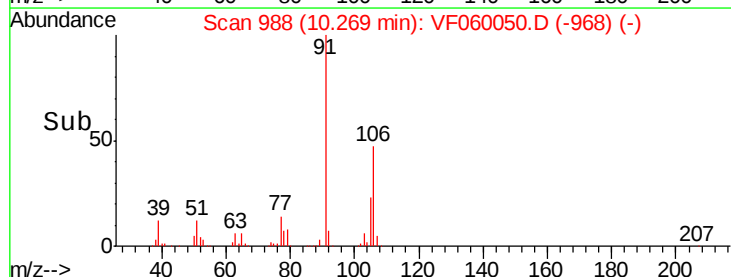
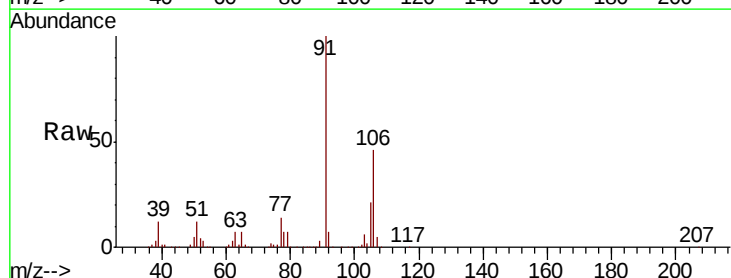
Acq: 23 Aug 2018 13:50

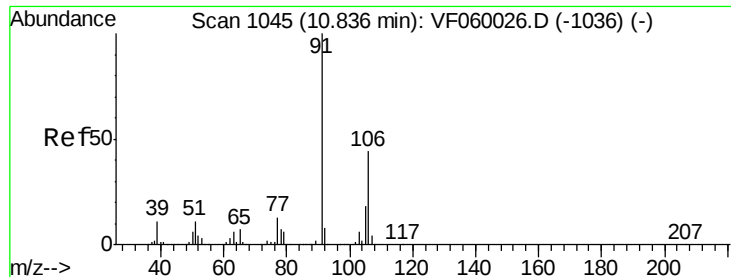
Tgt Ion: 106 Resp: 179343

Ion Ratio Lower Upper

106 100

91 218.1 171.8 257.8





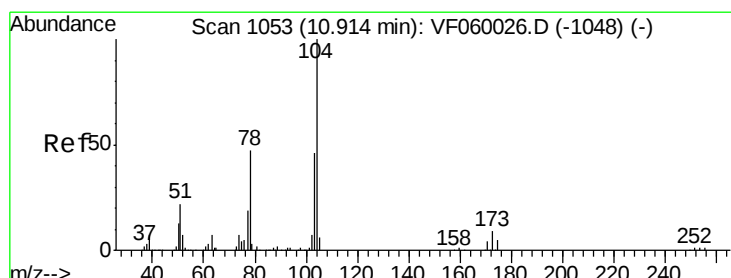
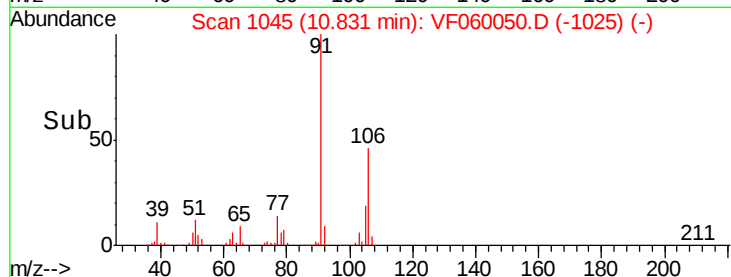
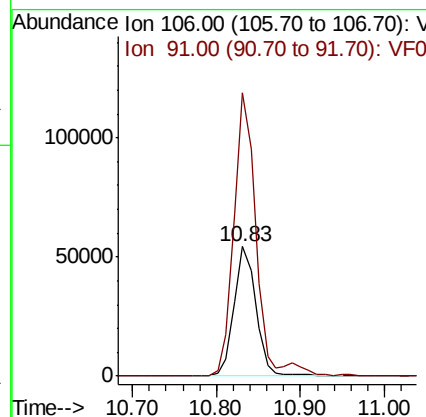
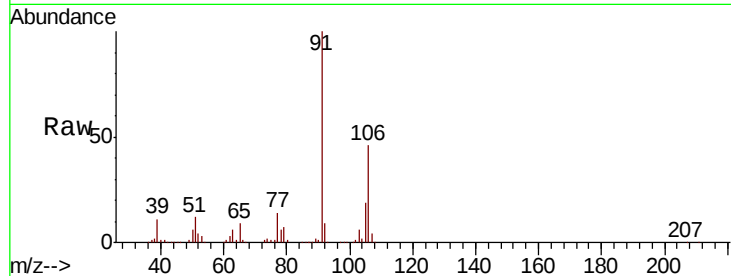
#69
o-Xylene
Concen: 22.61 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion:106 Resp: 99472
Ion Ratio Lower Upper
106 100
91 219.0 112.5 337.5

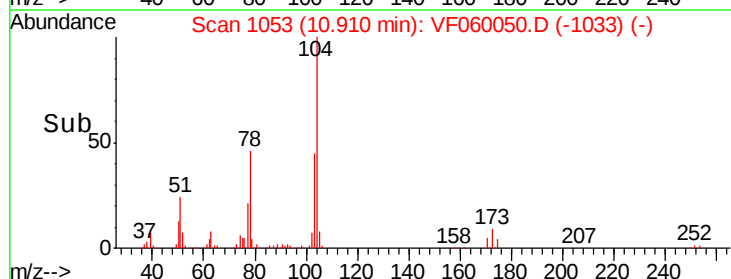
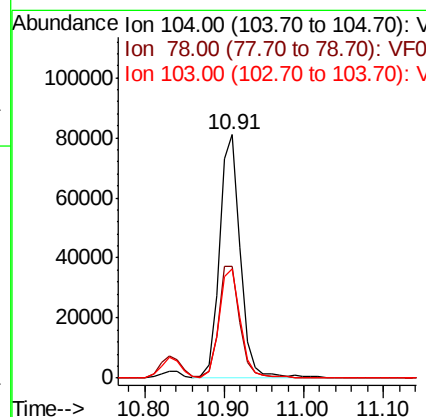
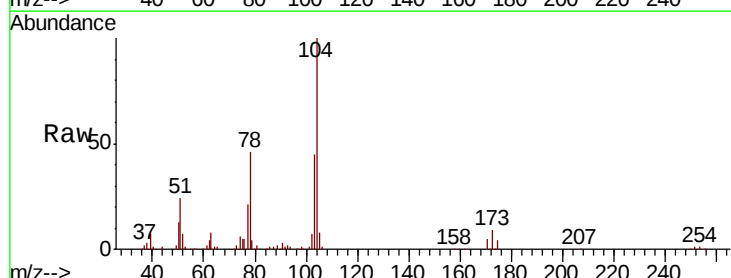
Manual Integrations
APPROVED

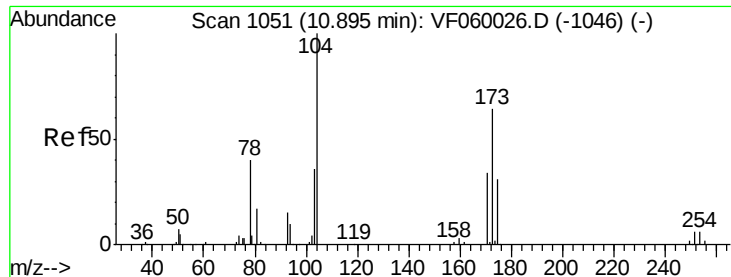
MMDadoda
8/24/2018 4:08:41 PM



#70
Styrene
Concen: 22.04 ug/l
RT: 10.91 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion:104 Resp: 148765
Ion Ratio Lower Upper
104 100
78 45.7 38.0 57.0
103 45.0 37.6 56.4





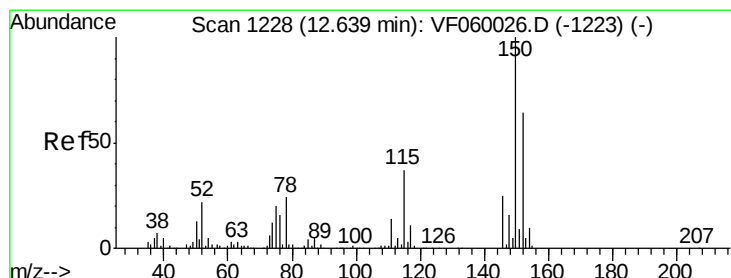
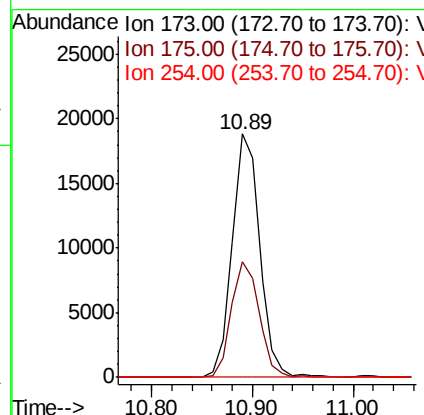
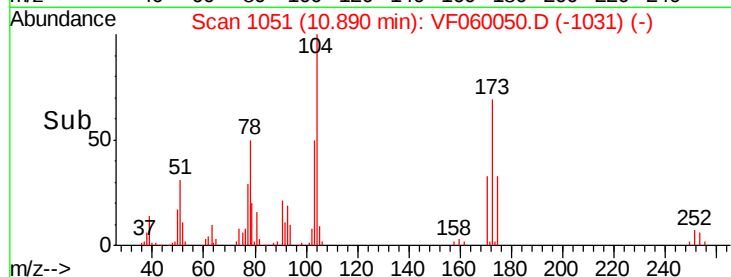
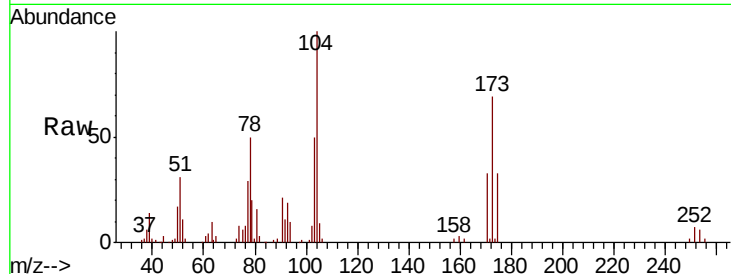
#71
Bromoform
Concen: 20.71 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.7	74.1
254	0.0	0.0	0.0

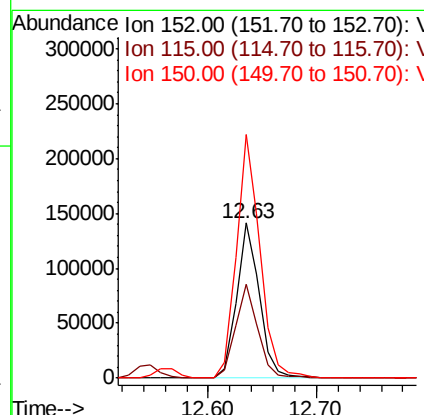
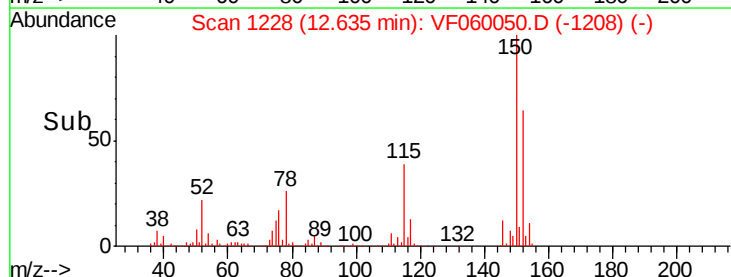
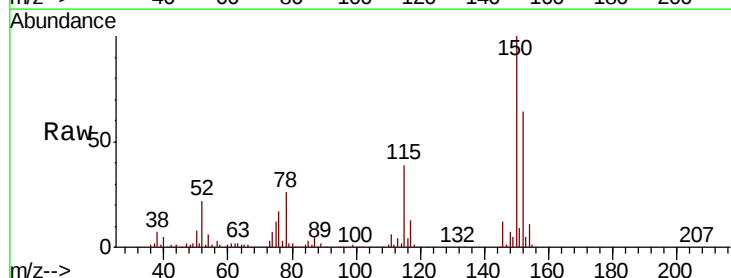
Manual Integrations
APPROVED

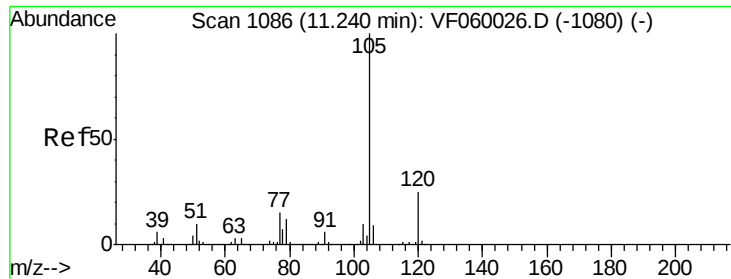
MMDadoda
8/24/2018 4:08:41 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.8	28.6	85.9
150	156.9	0.0	312.0





#73

Isopropylbenzene

Concen: 22.83 ug/l

RT: 11.24 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 105 Resp: 284980

Ion Ratio Lower Upper

105 100

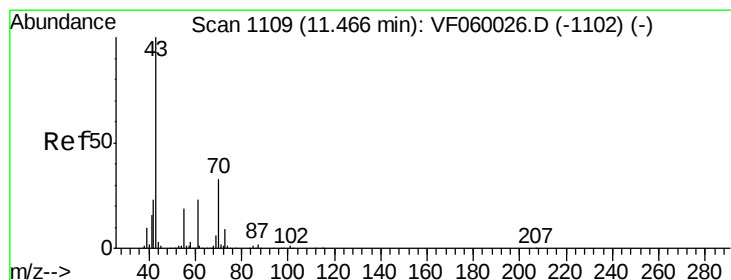
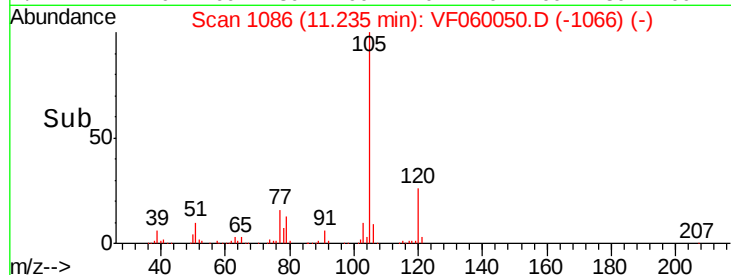
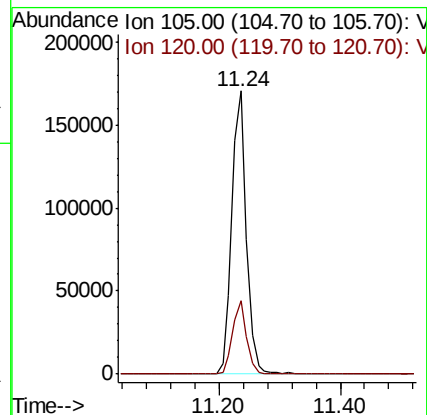
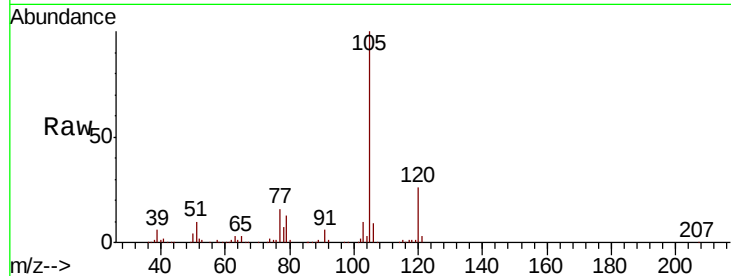
120 25.7 12.7 38.0

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#74

N-ethyl acetate

Concen: 21.77 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion: 43 Resp: 84436

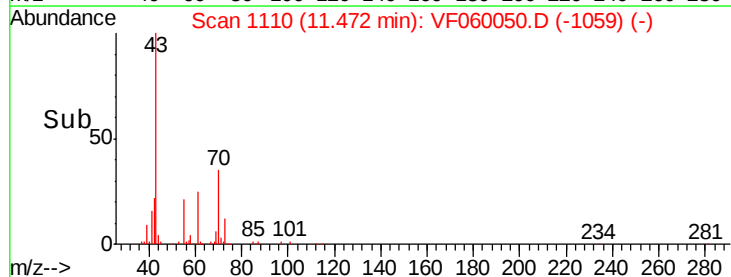
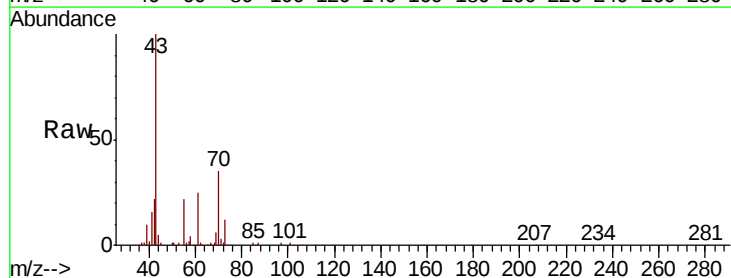
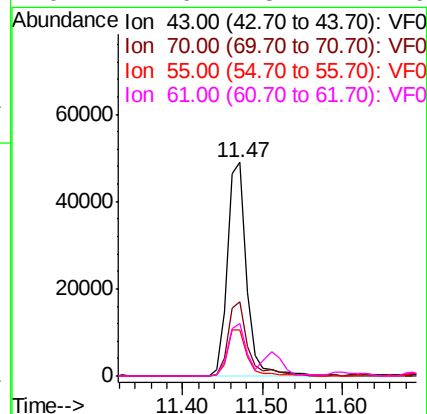
Ion Ratio Lower Upper

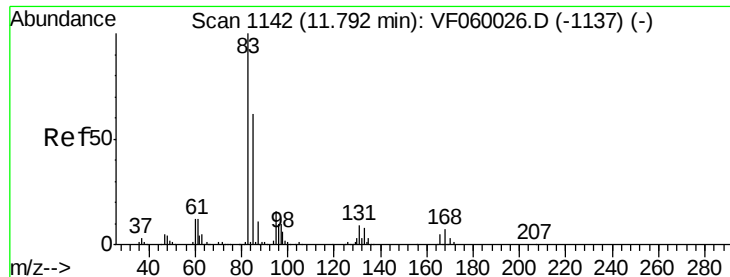
43 100

70 34.6 26.4 39.6

55 21.5 15.0 22.4

61 24.6 18.4 27.6





#75

1,1,2,2-Tetrachloroethane

Concen: 20.95 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

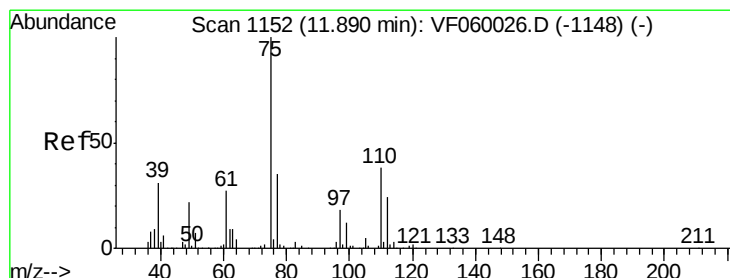
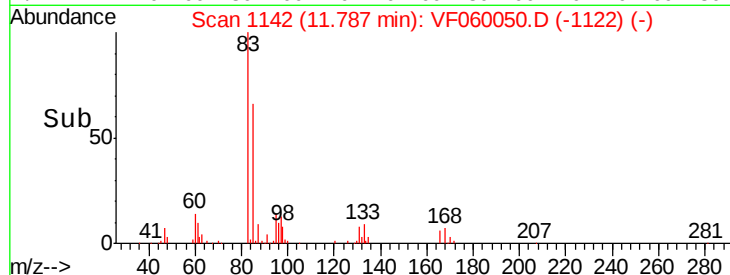
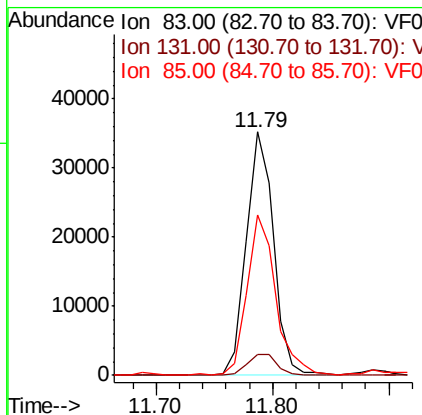
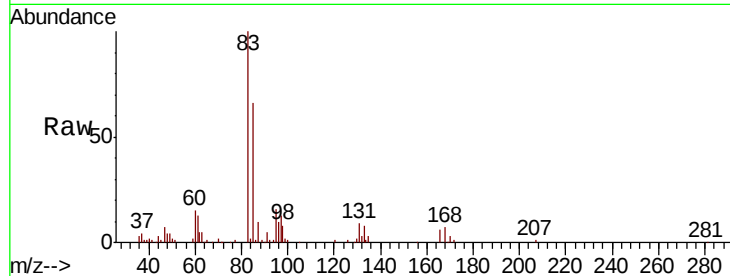
ClientSampleId :

VF0823SBS01

Tot Ion:	83	Resp:	57099
Ion Ratio	Lower	Upper	
83	100		
131	8.5	4.5	13.7
85	66.0	31.3	93.9

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#76

1,2,3-Trichloropropane

Concen: 20.64 ug/l

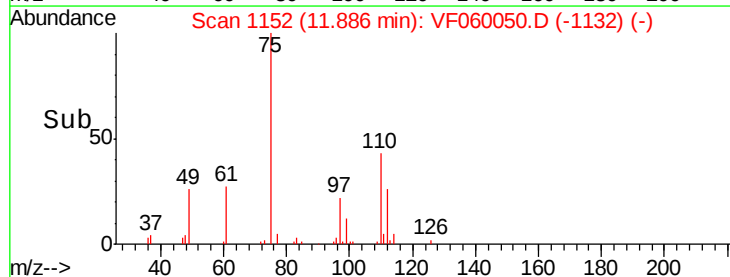
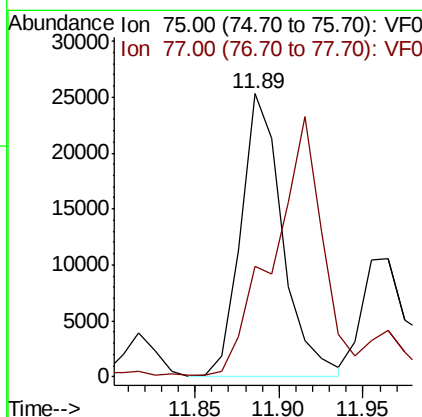
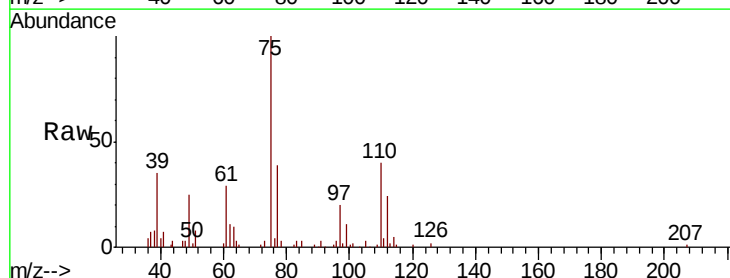
RT: 11.89 min Scan# 1152

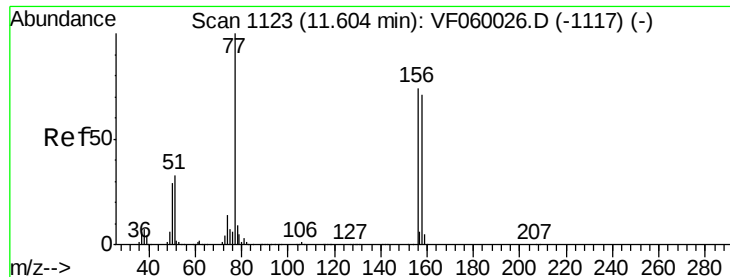
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	75	Resp:	43633
Ion Ratio	Lower	Upper	
75	100		
77	39.3	17.3	52.0





#77

Bromobenzene

Concen: 21.92 ug/l

RT: 11.60 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

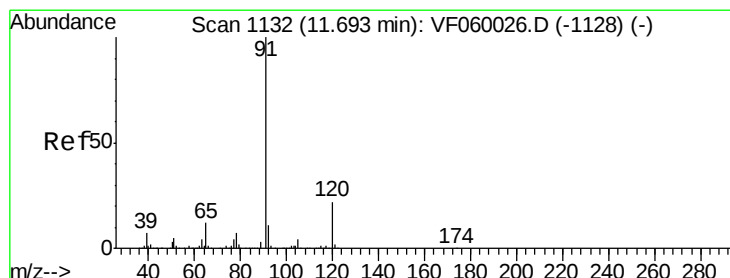
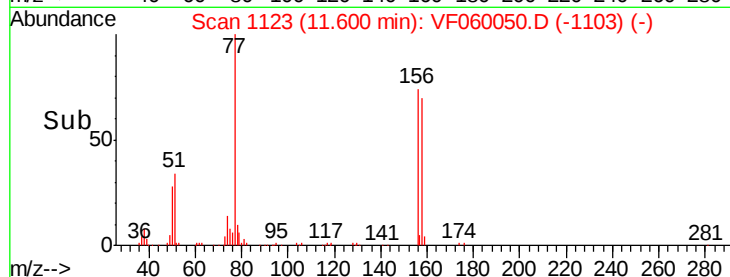
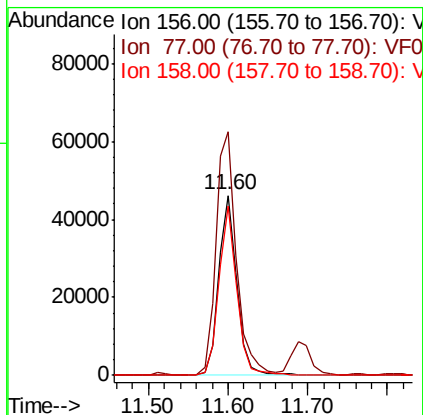
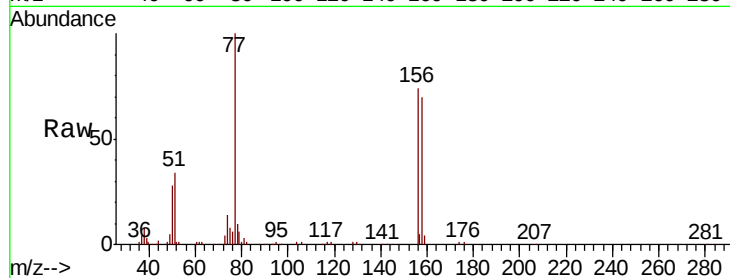
ClientSampleId :

VF0823SBS01

Tot Ion:	156	Resp:	74391
Ion Ratio	Lower	Upper	
156	100		
77	135.5	68.0	204.0
158	94.5	48.4	145.3

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#78

n-propylbenzene

Concen: 22.08 ug/l

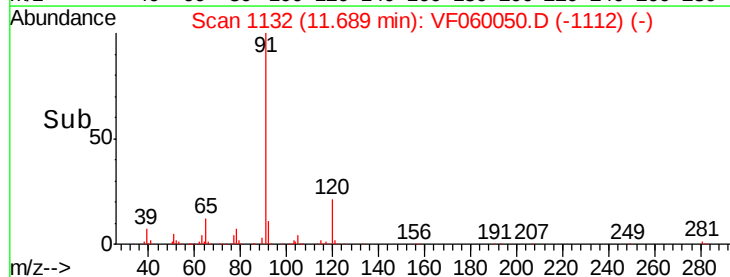
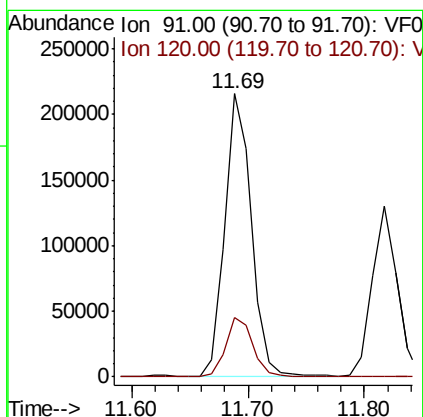
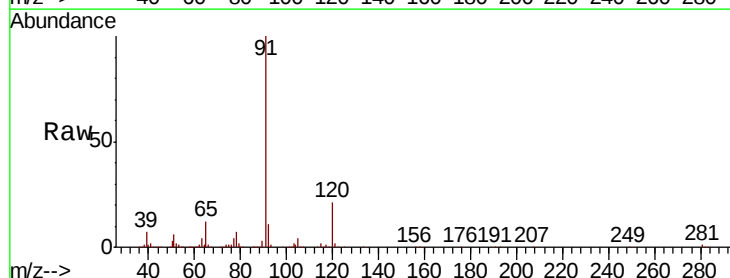
RT: 11.69 min Scan# 1132

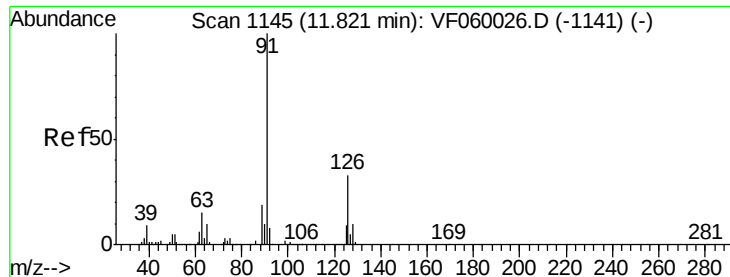
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	91	Resp:	340102
Ion Ratio	Lower	Upper	
91	100		
120	21.0	10.9	32.7





#79

2-Chlorotoluene

Concen: 21.44 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS01

Tot Ion: 91 Resp: 194225

Ion Ratio Lower Upper

91 100

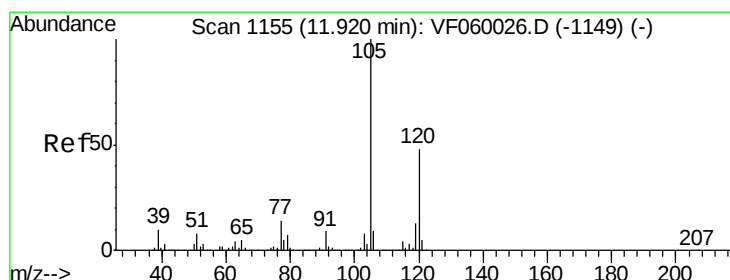
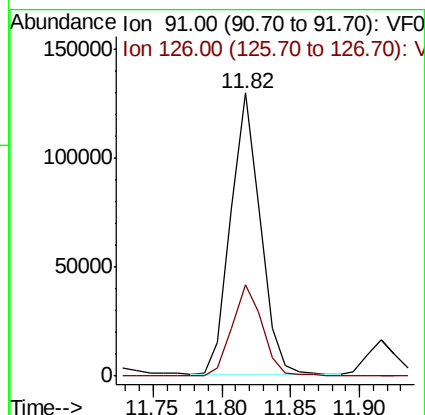
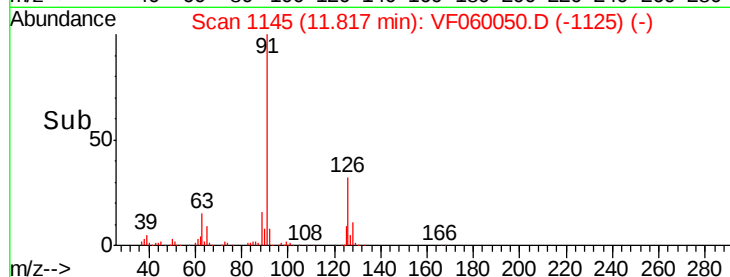
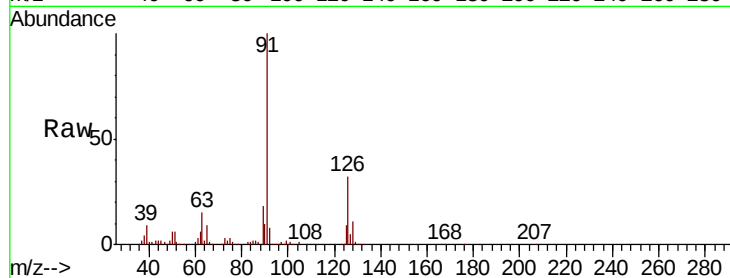
126 32.4 16.6 49.7

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:08:41 PM



#80

1,3,5-Trimethylbenzene

Concen: 22.15 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VF060050.D

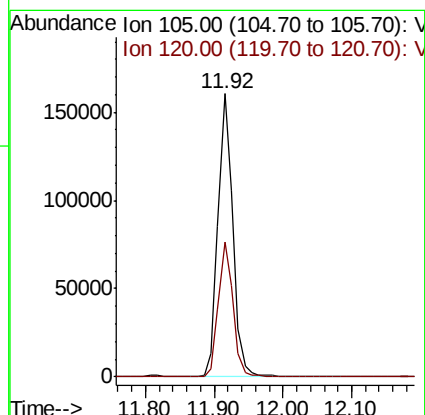
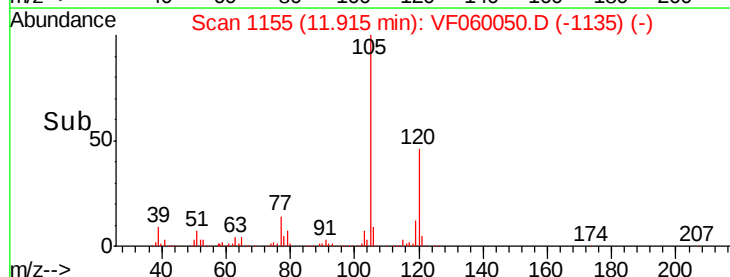
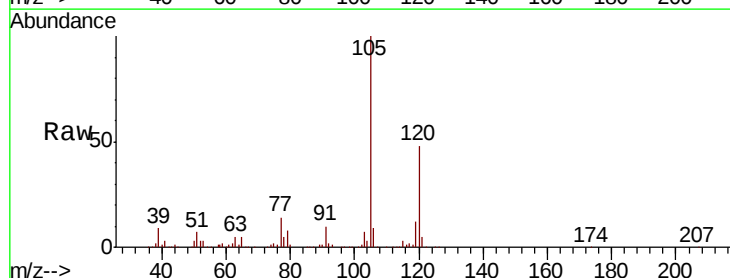
Acq: 23 Aug 2018 13:50

Tgt Ion: 105 Resp: 240838

Ion Ratio Lower Upper

105 100

120 47.8 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

Concen: 20.41 ug/l m

RT: 11.96 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

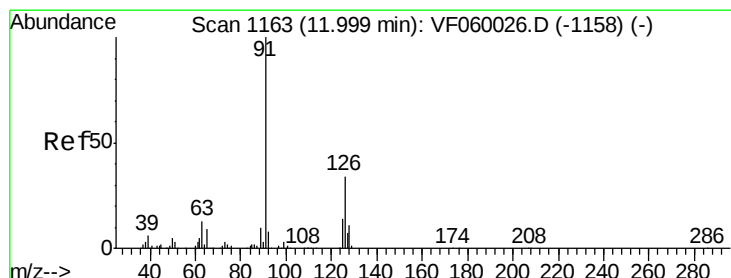
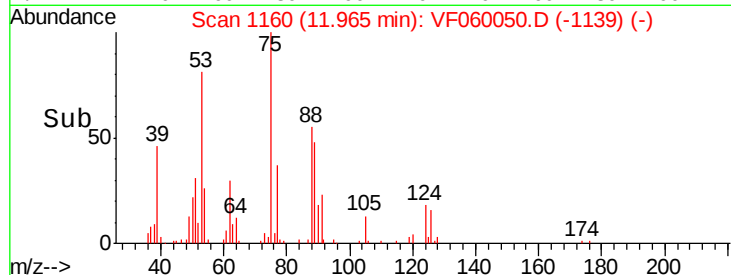
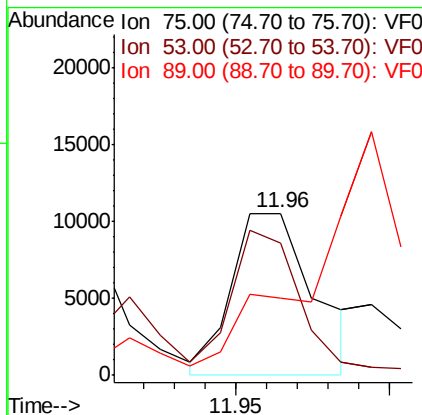
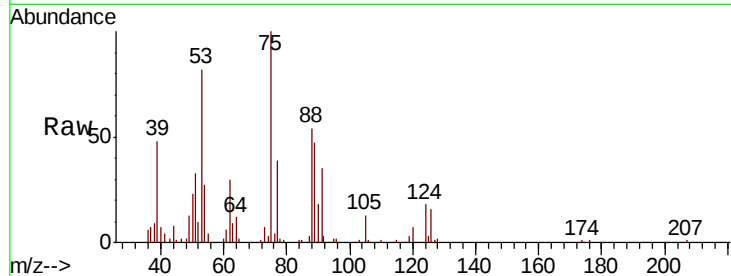
ClientSampleId :

VF0823SBSD01

Tot Ion:	75	Resp:	19737
Ion Ratio	Lower	Upper	
75	100		
53	81.7	66.2	99.4
89	47.4	42.8	64.2

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#82

4-Chlorotoluene

Concen: 21.79 ug/l

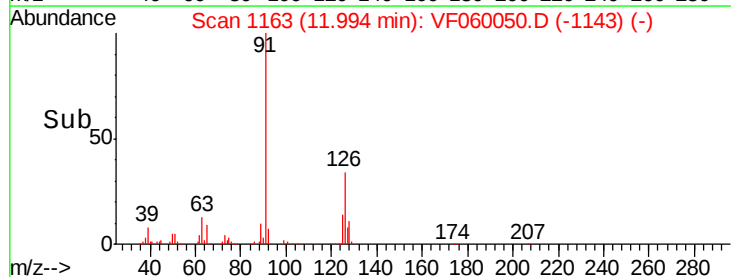
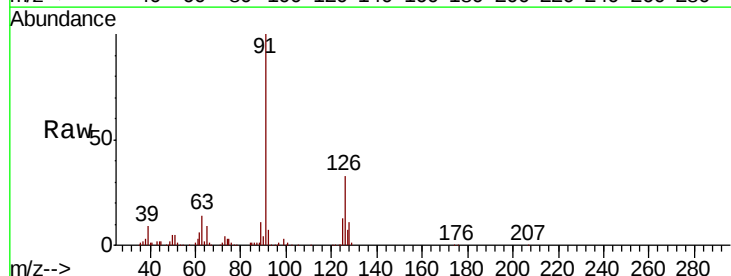
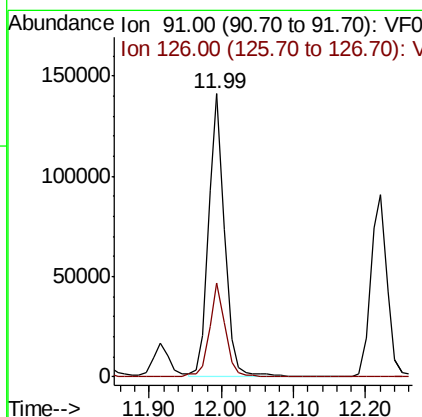
RT: 11.99 min Scan# 1163

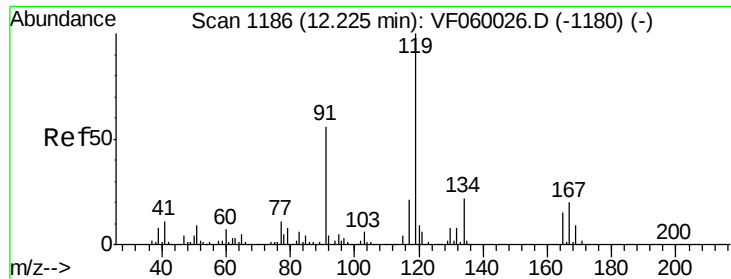
Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	91	Resp:	214293
Ion Ratio	Lower	Upper	
91	100		
126	33.1	17.0	50.9





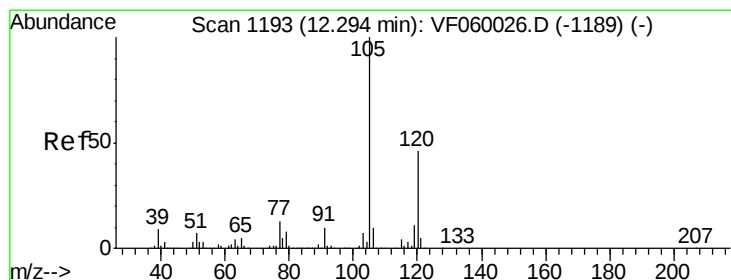
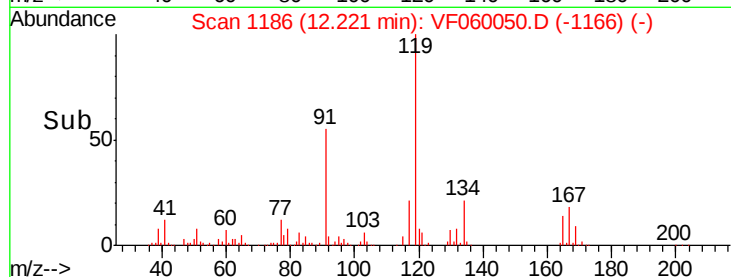
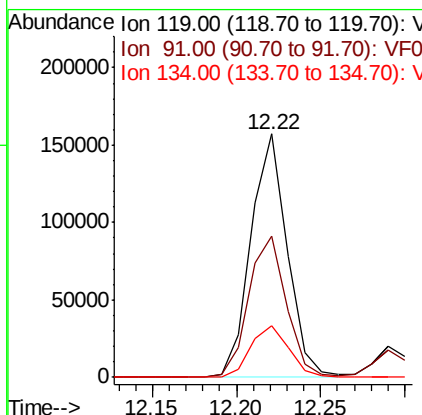
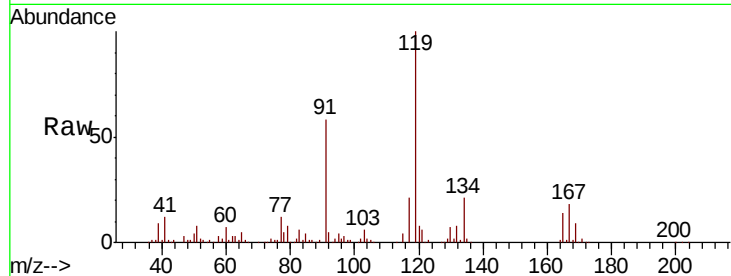
#83
 tert-Butylbenzene
 Concen: 22.23 ug/l
 RT: 12.22 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	235726		
91	57.9		28.1	84.3
134	21.4		11.1	33.3

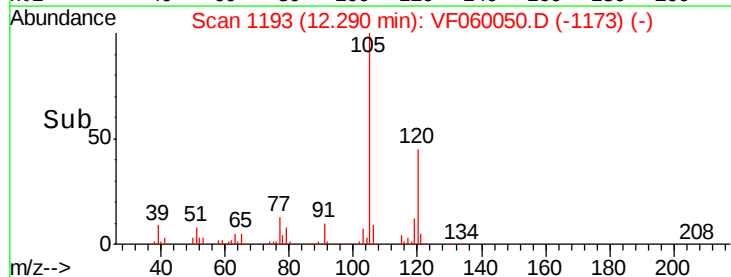
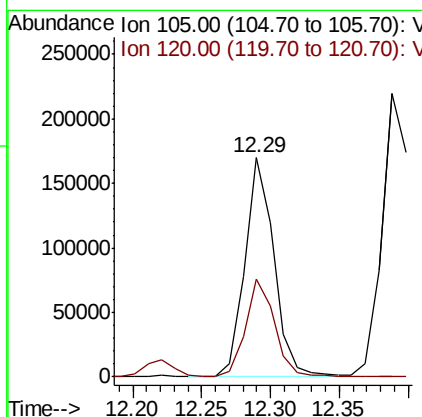
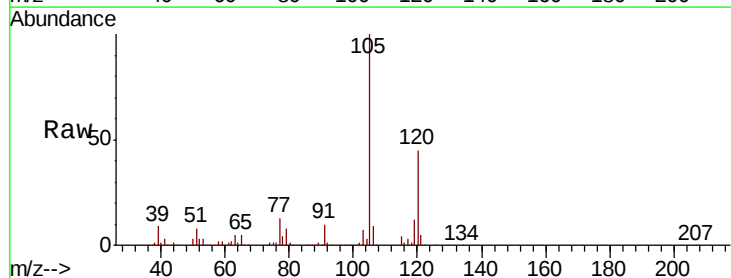
Manual Integrations
 APPROVED

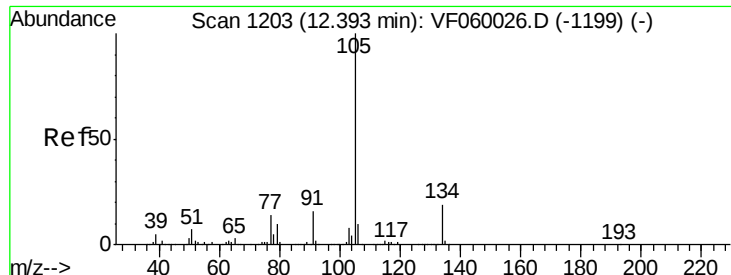
MMDadoda
 8/24/2018 4:08:41 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.66 ug/l
 RT: 12.29 min Scan# 1193
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	250434		
120	44.7		23.3	69.8





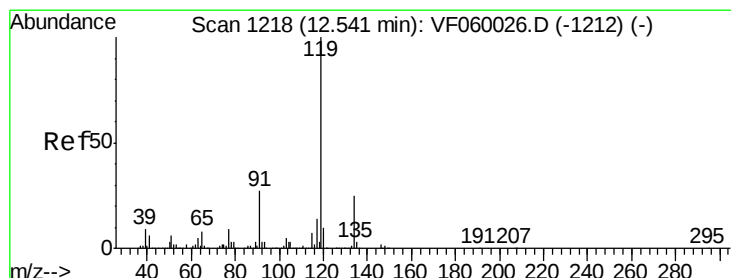
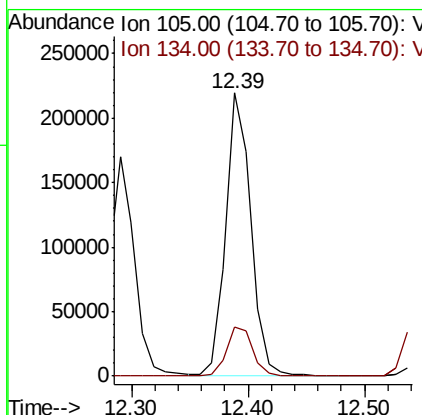
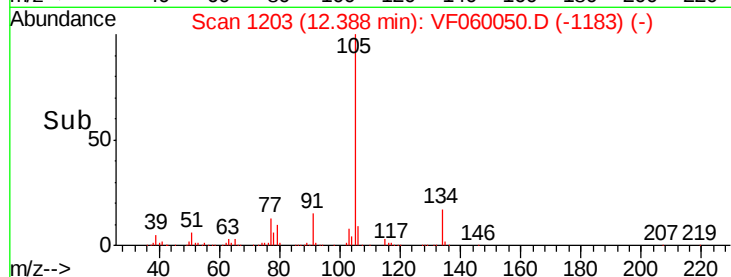
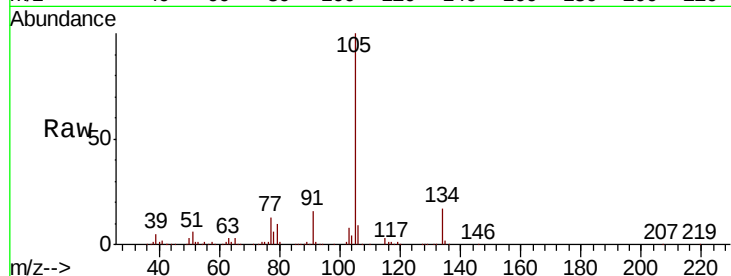
#85
 sec-Butylbenzene
 Concen: 22.12 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.2	9.3	27.9

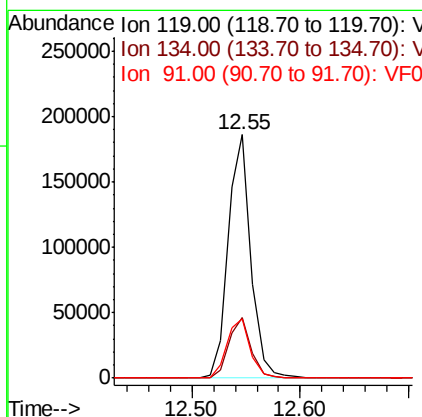
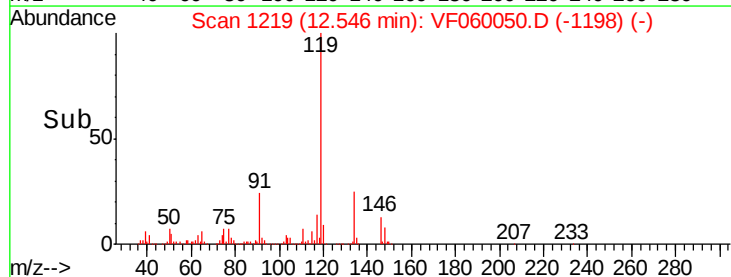
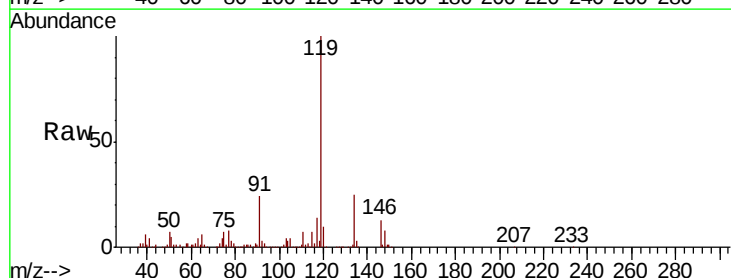
Manual Integrations
 APPROVED

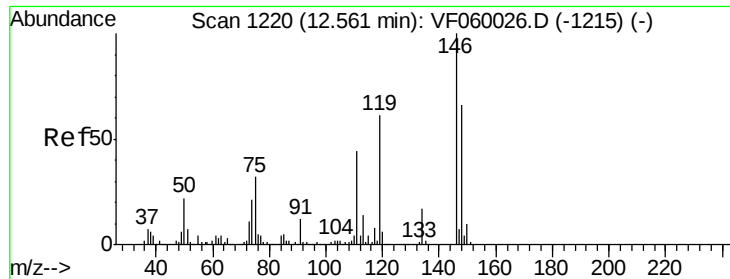
MMDadoda
 8/24/2018 4:08:41 PM



#86
 p-Isopropyltoluene
 Concen: 22.09 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.4	37.2
91	24.1	13.5	40.4





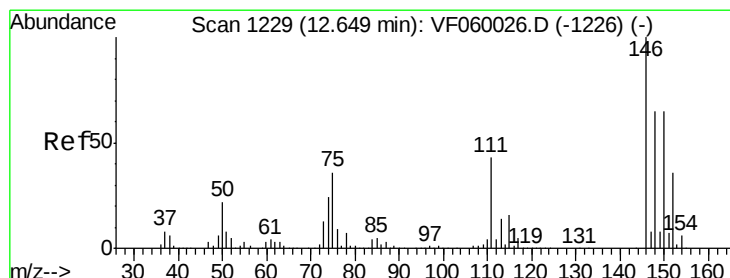
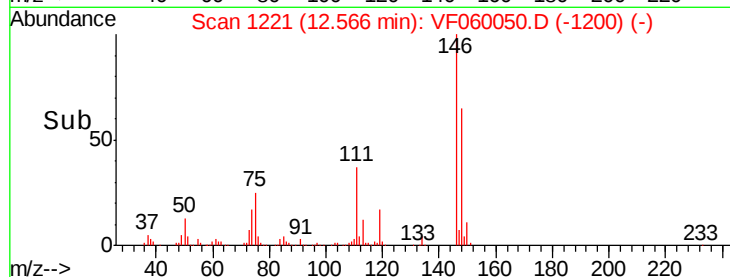
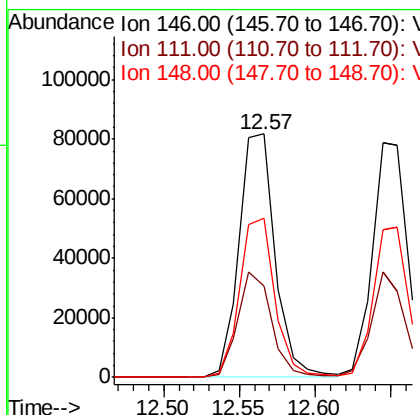
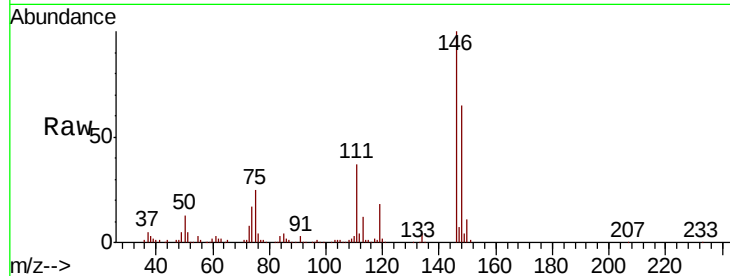
#87
 1,3-Dichlorobenzene
 Concen: 21.72 ug/l
 RT: 12.57 min Scan# 1221
 Delta R.T. 0.01 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	21.9	65.5
148	65.3	32.9	98.7

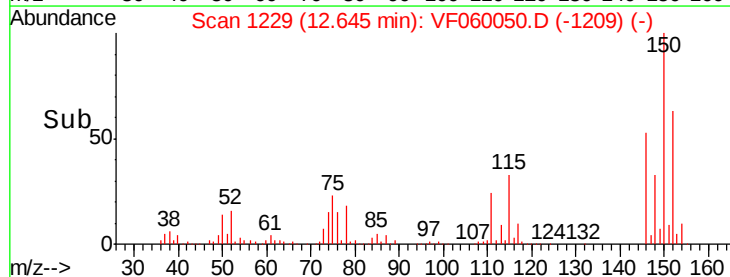
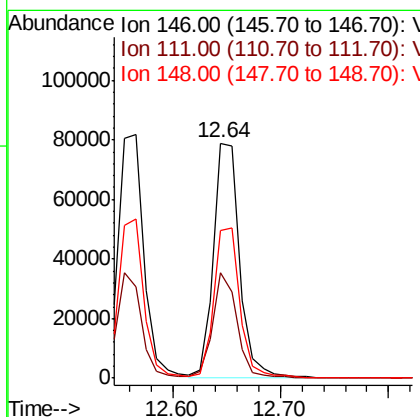
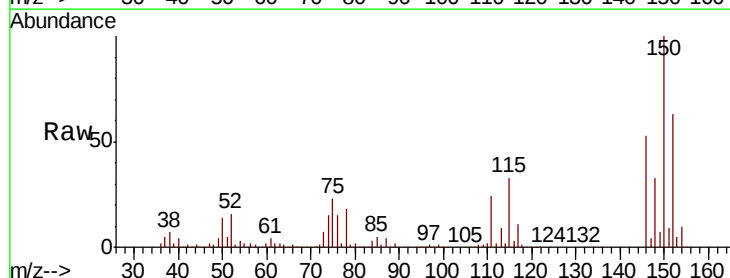
Manual Integrations
 APPROVED

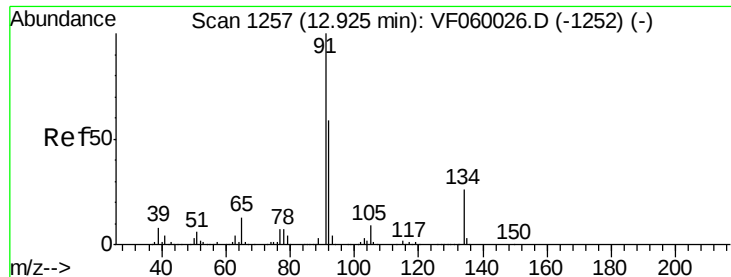
MMDadoda
 8/24/2018 4:08:41 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.11 ug/l
 RT: 12.64 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.6	64.8
148	63.1	32.3	96.8





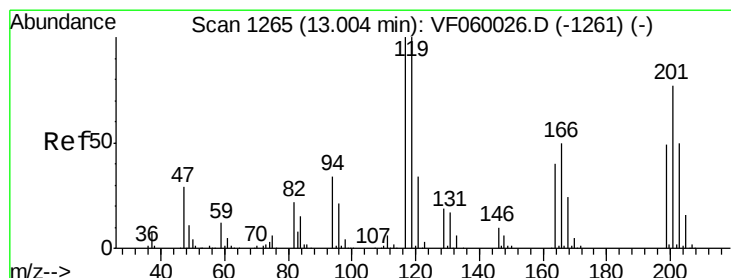
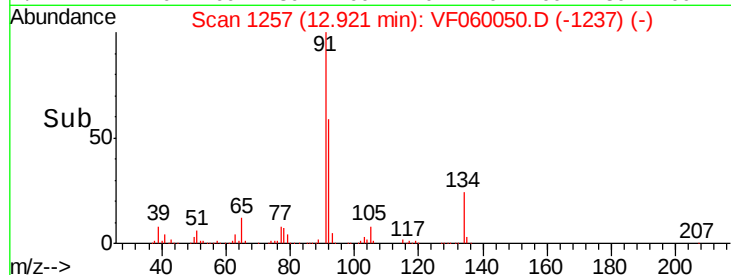
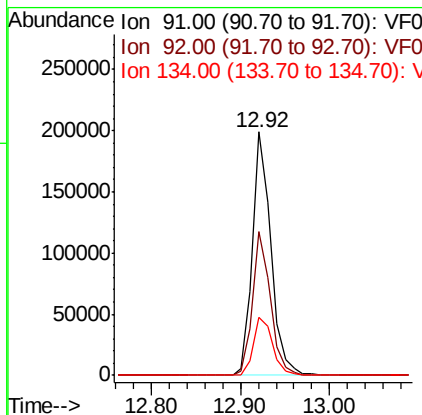
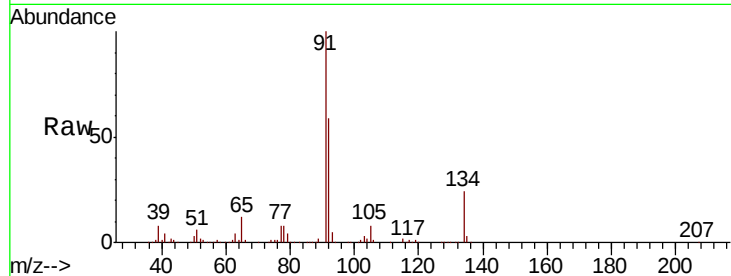
#89
n-Butylbenzene
Concen: 23.76 ug/l
RT: 12.92 min Scan# 1257
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	282767		
92	58.9		29.3	87.9
134	23.7		12.8	38.3

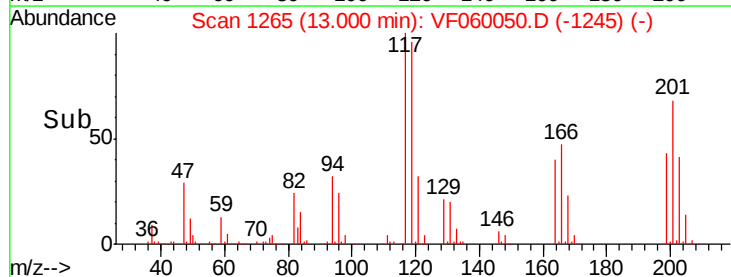
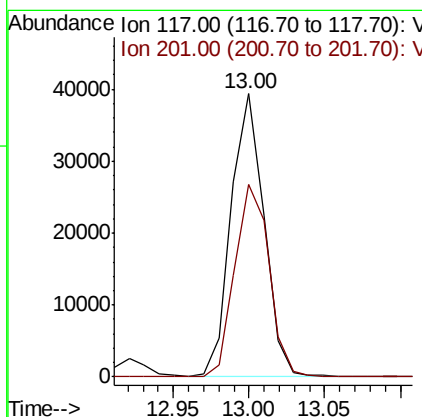
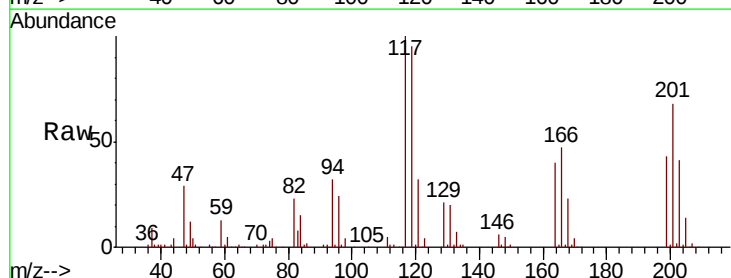
Manual Integrations
APPROVED

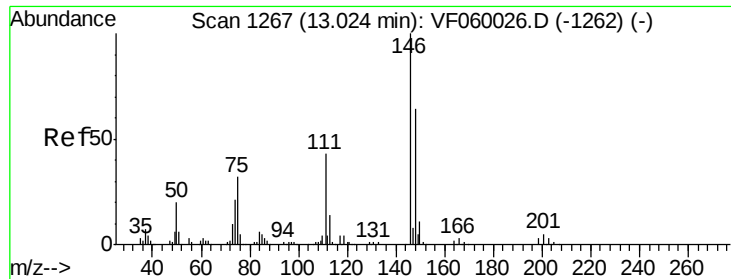
MMDadoda
8/24/2018 4:08:41 PM



#90
Hexachloroethane
Concen: 21.69 ug/l
RT: 13.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VF060050.D
Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	59707		
201	68.1		38.6	115.8





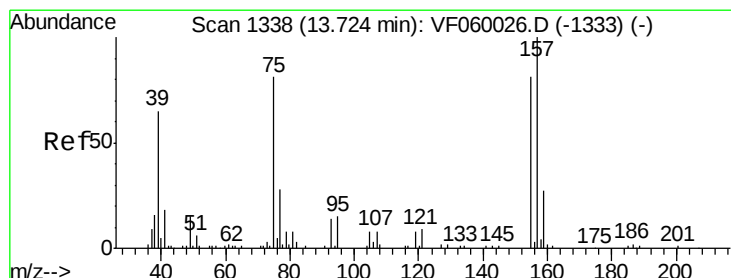
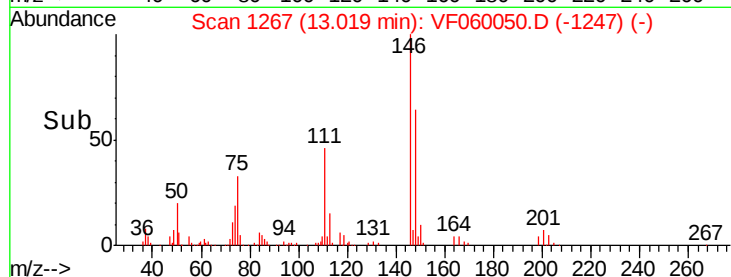
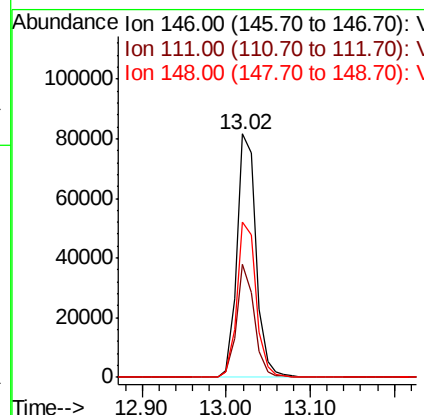
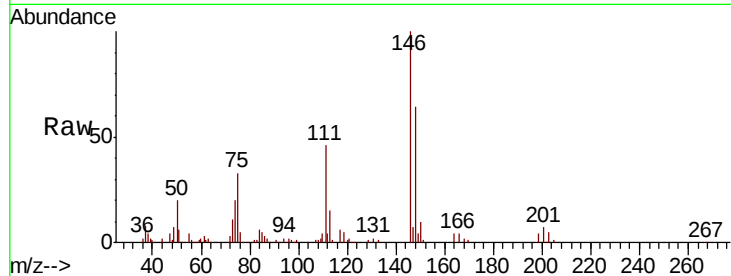
#91
 1,2-Dichlorobenzene
 Concen: 21.46 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.3	21.6	64.6
148	63.9	32.3	96.8

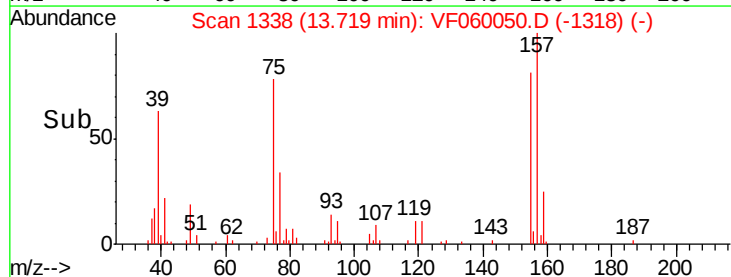
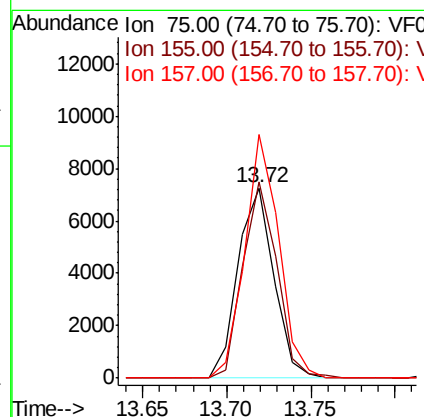
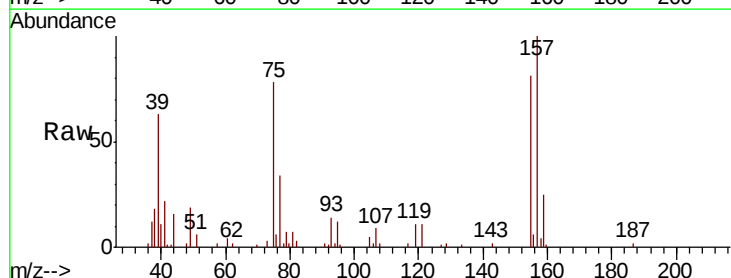
Manual Integrations
 APPROVED

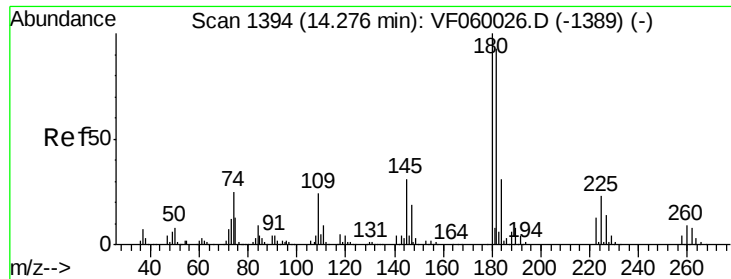
MMDadoda
 8/24/2018 4:08:41 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.36 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.1	49.8	149.3
157	128.1	61.6	184.7





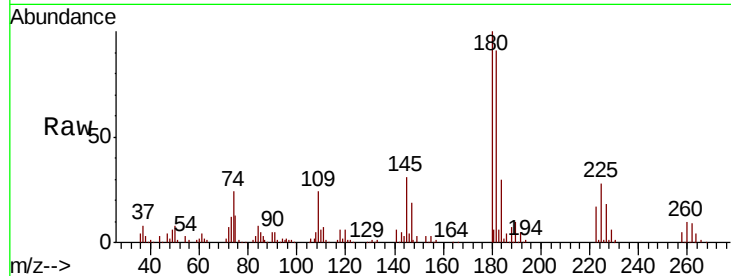
#93
 1,2,4-Trichlorobenzene
 Concen: 22.06 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS01

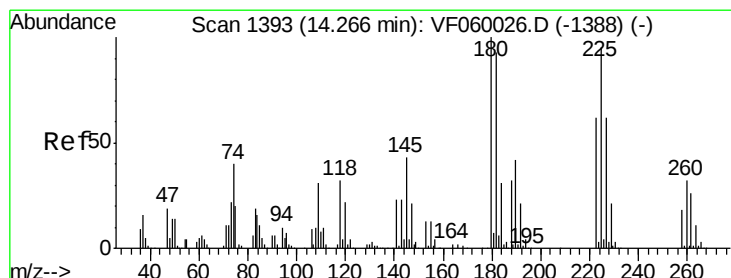
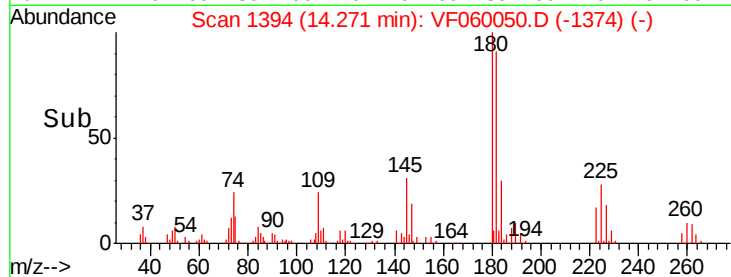
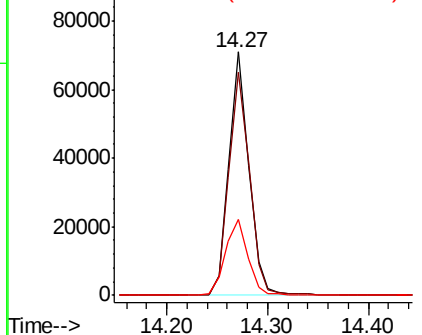
Tot Ion	Ratio	Resp	Lower	Upper
180	100	98042		
182	91.4	46.8	140.3	
145	31.0	15.4	46.4	

Manual Integrations
 APPROVED

MMDadoda
 8/24/2018 4:08:41 PM

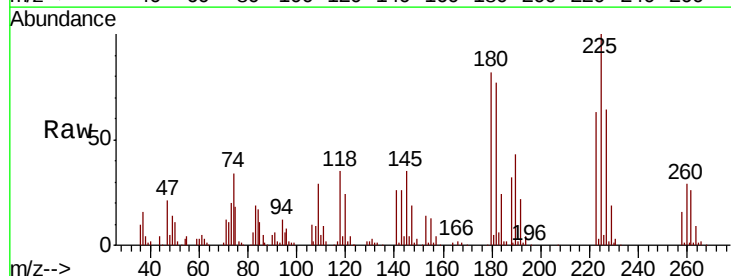


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

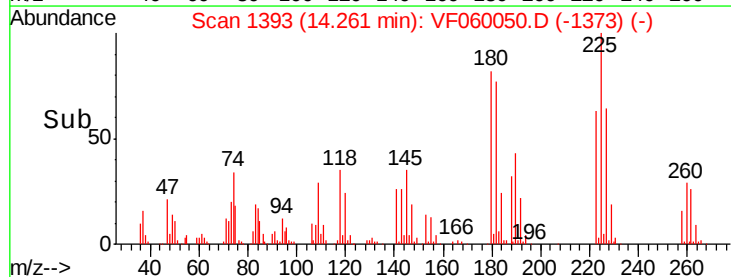
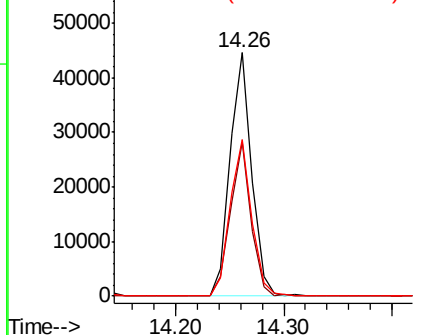


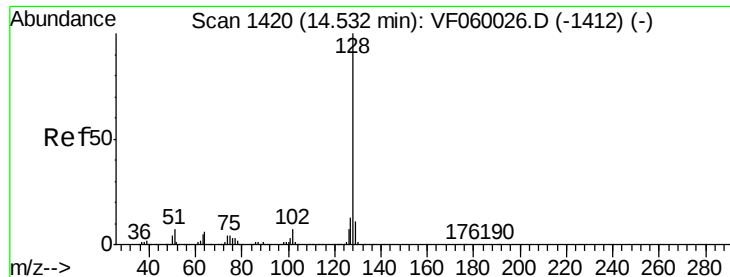
#94
 Hexachlorobutadiene
 Concen: 22.42 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF060050.D
 Acq: 23 Aug 2018 13:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	62014		
223	63.1	32.6	97.8	
227	64.4	33.0	98.9	



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: 19.52 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Instrument :

MSVOA_F

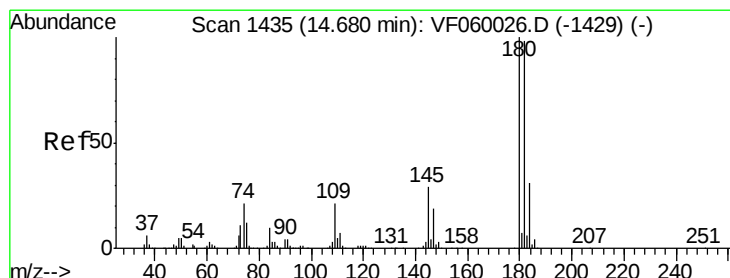
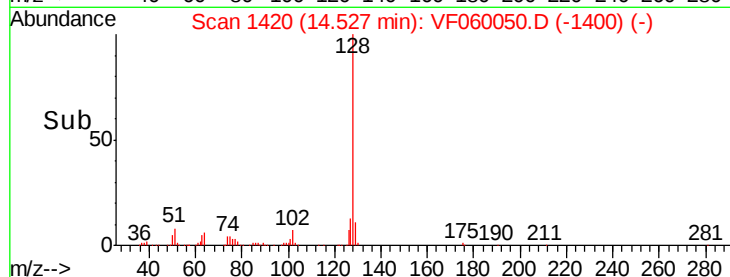
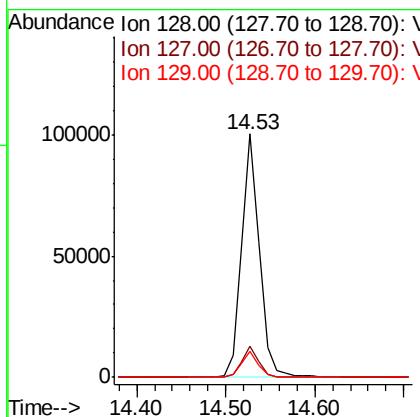
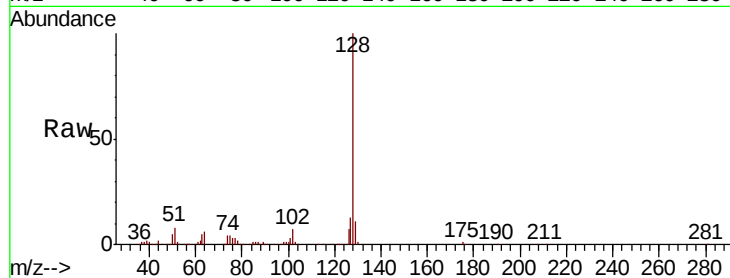
ClientSampleId :

VF0823SBS01

Tot Ion:	128	Resp:	139240
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.4	15.6
129	10.8	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:08:41 PM



#96

1,2,3-Trichlorobenzene

Concen: 22.10 ug/l

RT: 14.68 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VF060050.D

Acq: 23 Aug 2018 13:50

Tgt Ion:	180	Resp:	93703
Ion Ratio	Lower	Upper	
180	100		
182	97.3	49.0	147.2
145	29.6	14.4	43.2

