

Data File : VF062454.D
Acq On : 11 May 2019 12:28
Operator : FY/SY
Sample : VF0511SBS01
Misc : 5.00g/5mL/MSVOA_F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM

Quant Time: May 12 04:07:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	315547	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	412846	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	361697	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	235034	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	164804	55.27	ug/l	0.02
Spiked Amount	50.000		Recovery	=	110.54%	
35) Dibromofluoromethane	4.31	113	193174	58.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.46%	
50) Toluene-d8	7.72	98	416242	52.28	ug/l	0.02
Spiked Amount	50.000		Recovery	=	104.56%	
62) 4-Bromofluorobenzene	11.49	95	191444	53.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	87562	23.977	ug/l	99
3) Chloromethane	1.14	50	52907	21.966	ug/l	100
4) Vinyl Chloride	1.19	62	49577	20.636	ug/l	96
5) Bromomethane	1.38	94	45246	23.636	ug/l	97
6) Chloroethane	1.43	64	27063	22.406	ug/l #	86
7) Trichlorofluoromethane	1.55	101	117394	23.551	ug/l	89
8) Diethyl Ether	1.72	74	15124	20.053	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	1.90	101	67594	23.752	ug/l	99
10) Methyl Iodide	1.98	142	112956	24.086	ug/l	97
11) Tert butyl alcohol	2.70	59	16367	97.112	ug/l #	87
12) 1,1-Dichloroethene	1.86	96	57403	23.727	ug/l	93
13) Acrolein	2.10	56	11858	101.265	ug/l	100
14) Allyl chloride	2.20	41	75680m	35.413	ug/l	
15) Acrylonitrile	3.09	53	32593	102.091	ug/l	96
16) Acetone	2.35	43	66630	110.452	ug/l	93
17) Carbon Disulfide	1.91	76	120096	22.767	ug/l	95
18) Methyl Acetate	2.47	43	22740	18.710	ug/l	100
19) Methyl tert-butyl Ether	2.55	73	106332	21.292	ug/l	99
20) Methylene Chloride	2.33	84	55140m	25.264	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	50252	21.802	ug/l	95
22) Diisopropyl ether	2.94	45	148705	22.264	ug/l	98
23) Vinyl Acetate	3.35	43	308182	103.525	ug/l	99
24) 1,1-Dichloroethane	3.02	63	96798	23.979	ug/l	98
25) 2-Butanone	4.53	43	79018	104.263	ug/l	99
26) 2,2-Dichloropropane	3.79	77	63588	28.207	ug/l	98
27) cis-1,2-Dichloroethene	3.66	96	66044	22.922	ug/l	96
28) Bromochloromethane	3.90	49	37174	20.305	ug/l	100
29) Tetrahydrofuran	4.27	42	32212	92.479	ug/l	99
30) Chloroform	4.06	83	133920	24.556	ug/l	97
31) Cyclohexane	3.90	56	72884	22.620	ug/l	88
32) 1,1,1-Trichloroethane	4.30	97	120066	25.687	ug/l	99
36) 1,1-Dichloropropene	4.48	75	85168	24.015	ug/l	99
37) Ethyl Acetate	4.31	43	30409	18.723	ug/l #	99
38) Carbon Tetrachloride	4.19	117	114878m	30.124	ug/l	

Data File : VF062454.D
Acq On : 11 May 2019 12:28
Operator : FY/SY
Sample : VF0511SBS01
Misc : 5.00g/5mL/MSVOA_F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM

Quant Time: May 12 04:07:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	78128	21.966	ug/l	88
40) Benzene	4.83	78	182457	23.363	ug/l	100
41) Methacrylonitrile	4.94	41	17816	20.951	ug/l	91
42) 1,2-Dichloroethane	5.14	62	76013	23.272	ug/l	100
43) Isopropyl Acetate	7.12	43	30686	19.023	ug/l #	99
44) Trichloroethene	5.69	130	66509	23.183	ug/l	99
45) 1,2-Dichloropropane	6.42	63	39801	22.500	ug/l #	86
46) Dibromomethane	6.26	93	33073	22.550	ug/l	98
47) Bromodichloromethane	6.56	83	83574	22.792	ug/l	93
48) Methyl methacrylate	6.88	41	21870	19.185	ug/l	93
49) 1,4-Dioxane	6.88	88	4591	383.520	ug/l #	82
51) 4-Methyl-2-Pentanone	8.41	43	123888	101.354	ug/l	99
52) Toluene	7.79	92	116305	24.141	ug/l	96
53) t-1,3-Dichloropropene	8.43	75	61455	22.159	ug/l	96
54) cis-1,3-Dichloropropene	7.46	75	79491	24.628	ug/l	96
55) 1,1,2-Trichloroethane	8.64	97	32683	21.370	ug/l	98
56) Ethyl methacrylate	8.76	69	31451	19.481	ug/l	95
57) 1,3-Dichloropropane	9.00	76	51476	22.282	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.45	63	46060	94.895	ug/l	95
59) 2-Hexanone	9.63	43	98417	116.419	ug/l	95
60) Dibromochloromethane	8.86	129	57259	22.891	ug/l	97
61) 1,2-Dibromoethane	9.14	107	38412	21.369	ug/l	96
64) Tetrachloroethene	8.31	164	66361	22.600	ug/l	96
65) Chlorobenzene	9.94	112	139535	23.316	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.07	131	69799	23.120	ug/l	97
67) Ethyl Benzene	10.04	91	246177	23.492	ug/l	98
68) m/p-Xylenes	10.26	106	184111	47.617	ug/l	97
69) o-Xylene	10.82	106	98202	23.504	ug/l	97
70) Styrene	10.89	104	141168	22.545	ug/l	99
71) Bromoform	10.88	173	32822	19.844	ug/l #	98
73) Isopropylbenzene	11.22	105	314834	22.595	ug/l	100
74) N-amyl acetate	11.45	43	51767	17.305	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.77	83	43190	19.797	ug/l	95
76) 1,2,3-Trichloropropane	11.87	75	33724	20.261	ug/l #	100
77) Bromobenzene	11.58	156	76432	20.901	ug/l	98
78) n-propylbenzene	11.67	91	321449	21.669	ug/l	99
79) 2-Chlorotoluene	11.80	91	203856	22.100	ug/l	96
80) 1,3,5-Trimethylbenzene	11.90	105	278531	22.806	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.94	75	11058m	17.674	ug/l	
82) 4-Chlorotoluene	11.98	91	205897	22.599	ug/l	100
83) tert-Butylbenzene	12.20	119	288701	22.493	ug/l	97
84) 1,2,4-Trimethylbenzene	12.27	105	267800	22.407	ug/l	98
85) sec-Butylbenzene	12.37	105	355307	22.743	ug/l	99
86) p-Isopropyltoluene	12.52	119	327315	22.550	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	148141	22.181	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	145299	22.541	ug/l	98
89) n-Butylbenzene	12.89	91	302333	23.412	ug/l	96
90) Hexachloroethane	12.97	117	75486	20.829	ug/l	96
91) 1,2-Dichlorobenzene	13.00	146	142901	22.106	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.69	75	8711	17.823	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051119\
Quantitation Report (QT Reviewed)

Data File : VF062454.D
Acq On : 11 May 2019 12:28
Operator : FY/SY
Sample : VF0511SBS01
Misc : 5.00g/5mL/MSVOA_F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM

Quant Time: May 12 04:07:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	130213	22.457	ug/l	97
94) Hexachlorobutadiene	14.23	225	99782	23.089	ug/l	97
95) Naphthalene	14.49	128	160627	18.426	ug/l	100
96) 1,2,3-Trichlorobenzene	14.64	180	120361	21.427	ug/l	99

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

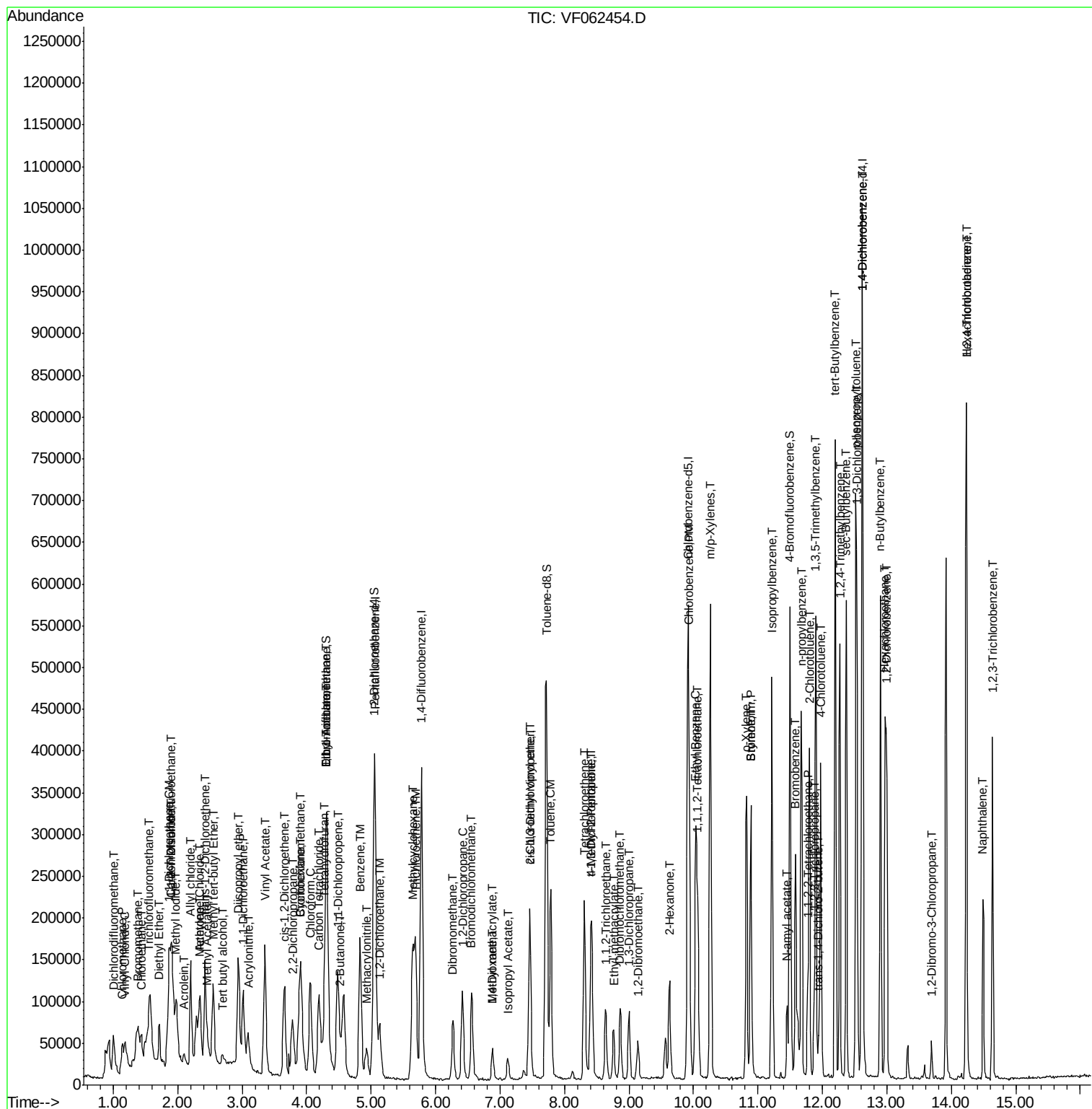
Data File : VF062454.D
Acq On : 11 May 2019 12:28
Operator : FY/SY
Sample : VF0511SBS01
Misc : 5.00g/5mL/MSVOA_F/SOIL
ALS Vial : 5 Sample Multiplier: 1

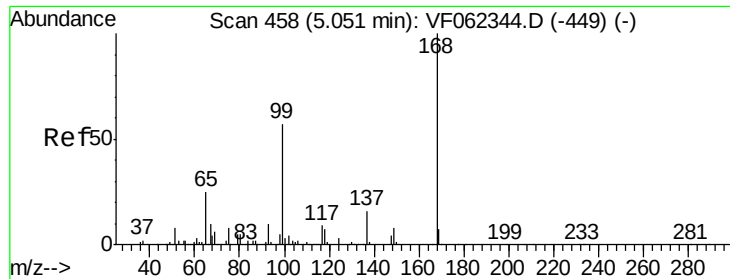
Instrument :
MSVOA_F
Client Sample Id :
VF0511SBS01

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM

Quant Time: May 12 04:07:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion:168 Resp: 315547

Ion Ratio Lower Upper

168 100

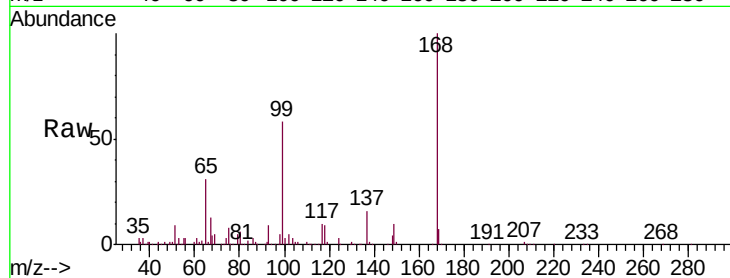
99 58.1 45.9 68.9

Manual Integrations

APPROVED

MMDadoda

5/12/2019 12:04:26 PM



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

120000

100000

80000

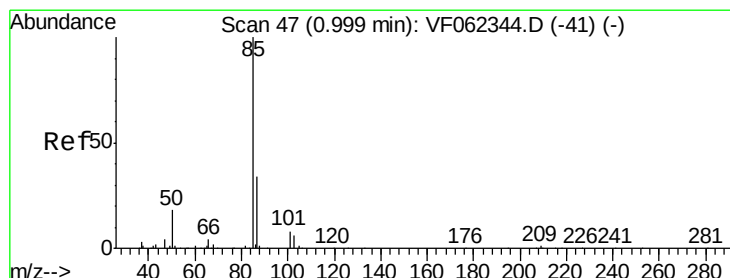
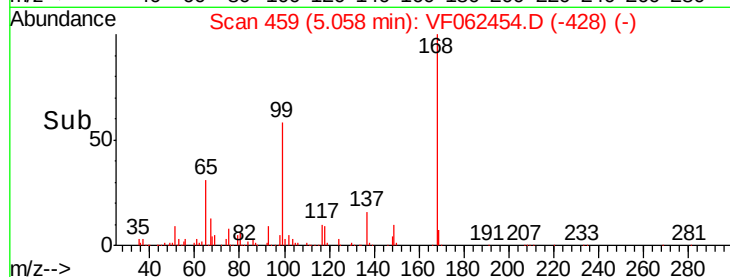
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 23.977 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062454.D

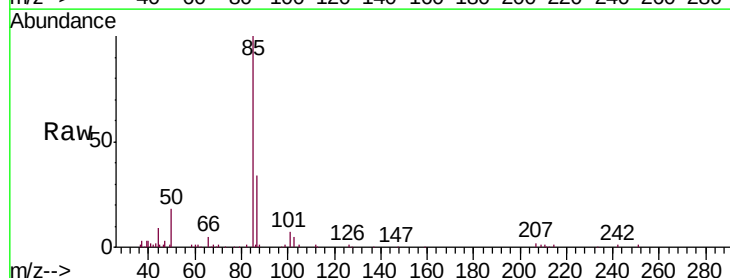
Acq: 11 May 2019 12:28

Tgt Ion: 85 Resp: 87562

Ion Ratio Lower Upper

85 100

87 34.3 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

30000

25000

20000

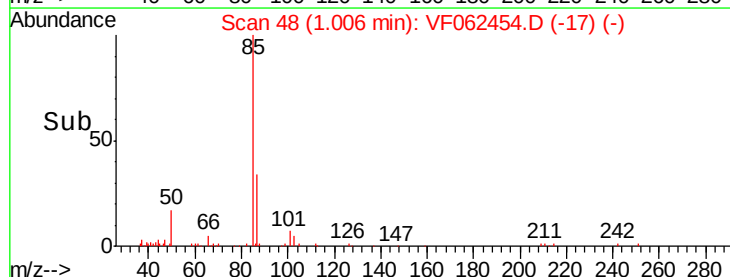
15000

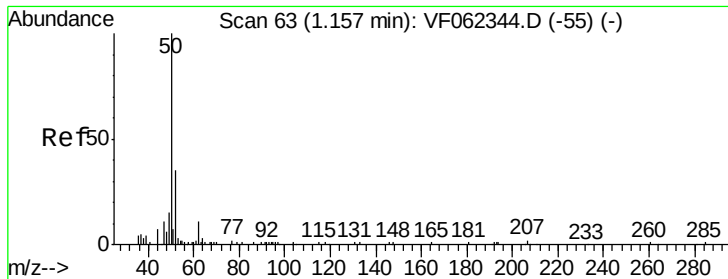
10000

5000

0

Time-->





#3

Chloromethane

Concen: 21.966 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 50 Resp: 52907

Ion Ratio Lower Upper

50 100

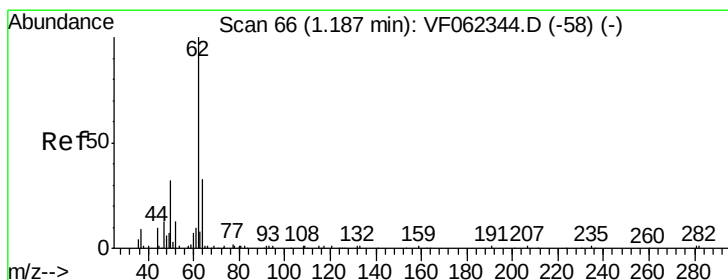
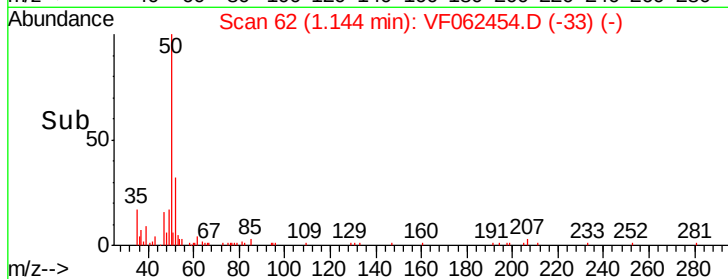
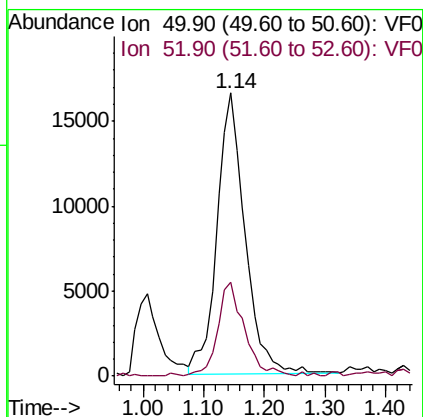
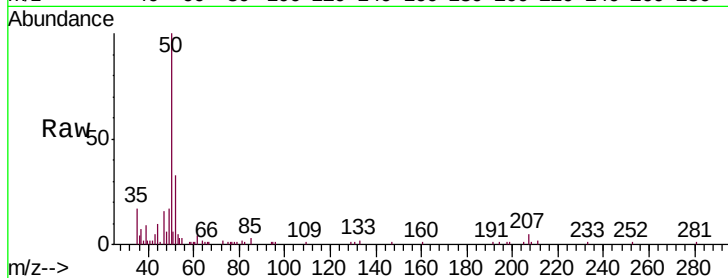
52 32.8 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

5/12/2019 12:04:26 PM



#4

Vinyl Chloride

Concen: 20.636 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062454.D

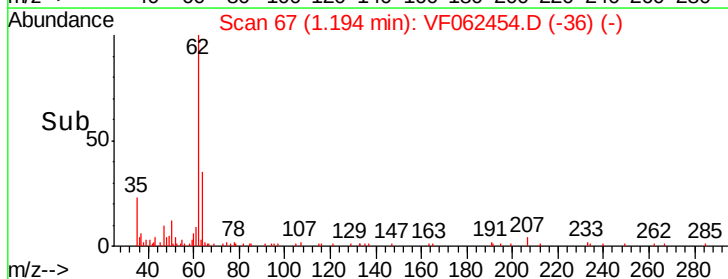
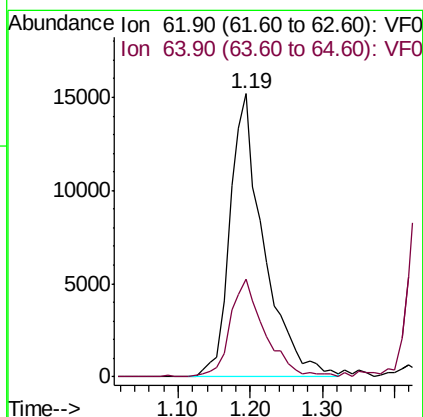
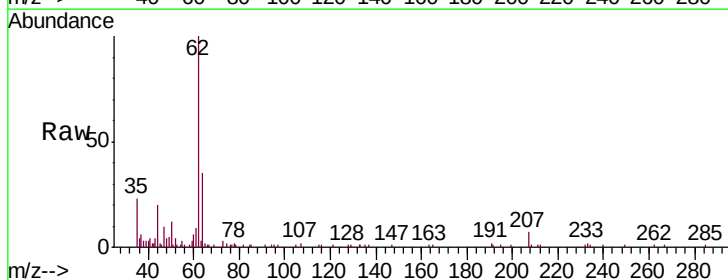
Acq: 11 May 2019 12:28

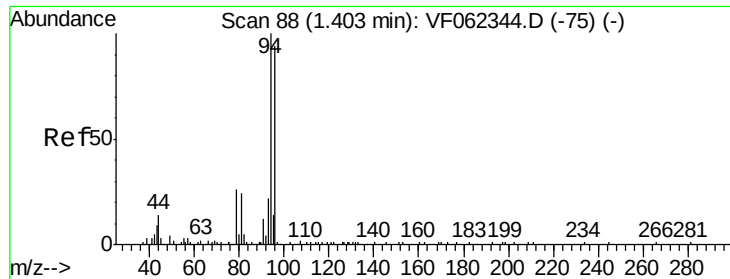
Tgt Ion: 62 Resp: 49577

Ion Ratio Lower Upper

62 100

64 34.7 26.1 39.1





#5

Bromomethane

Concen: 23.636 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 94 Resp: 45246

Ion Ratio Lower Upper

94 100

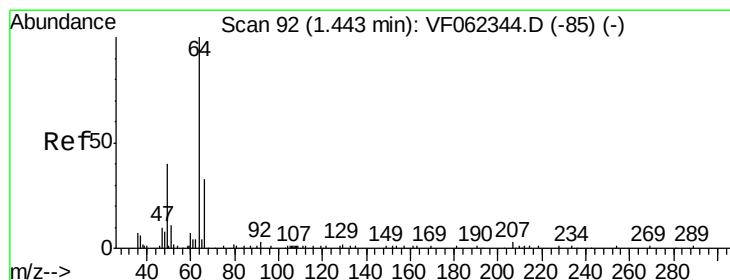
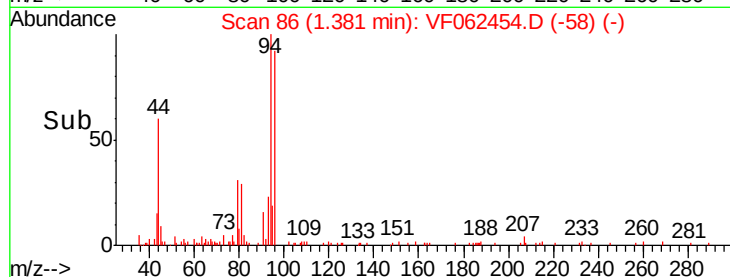
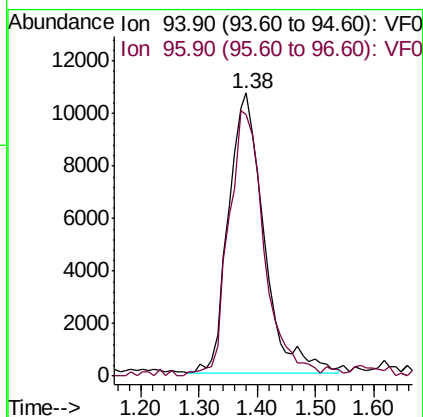
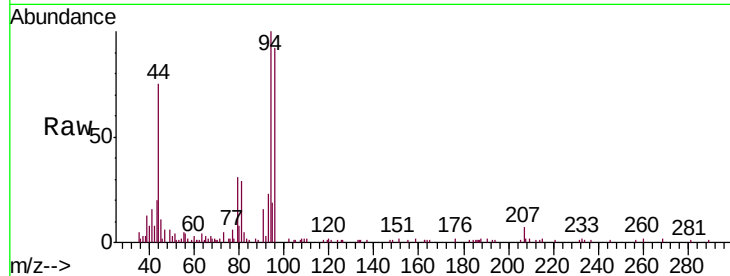
96 91.6 75.4 113.2

Manual Integrations

APPROVED

MMDadoda

5/12/2019 12:04:26 PM



#6

Chloroethane

Concen: 22.406 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF062454.D

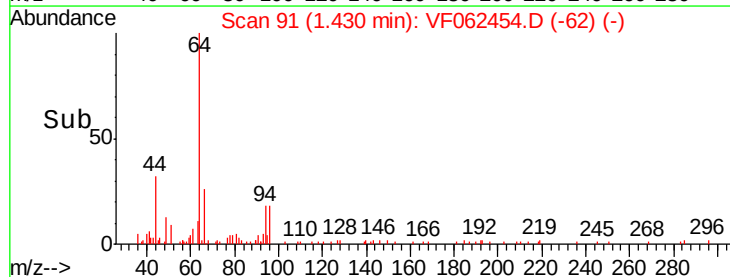
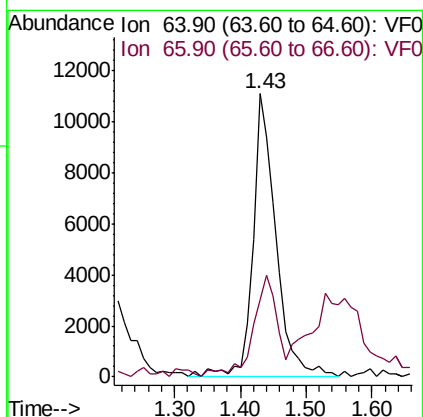
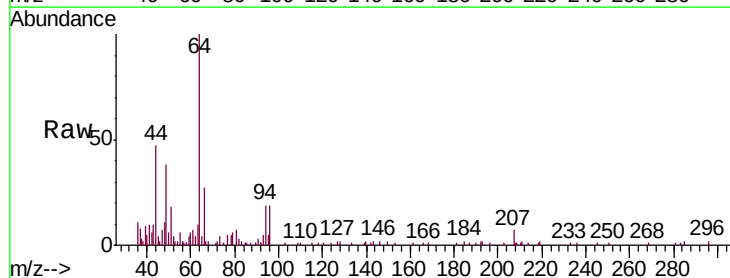
Acq: 11 May 2019 12:28

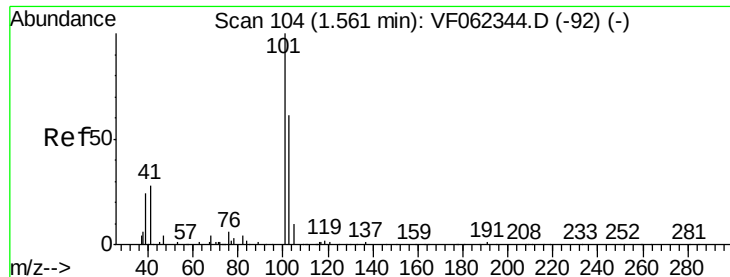
Tgt Ion: 64 Resp: 27063

Ion Ratio Lower Upper

64 100

66 25.0 26.6 39.8#





#7

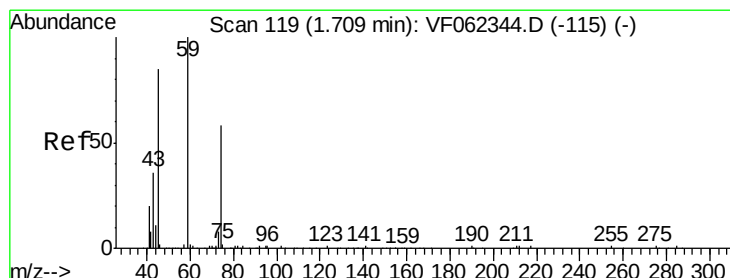
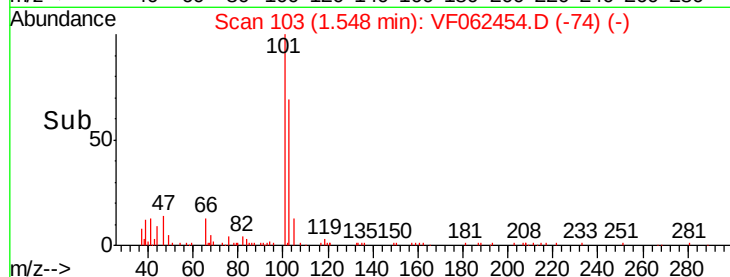
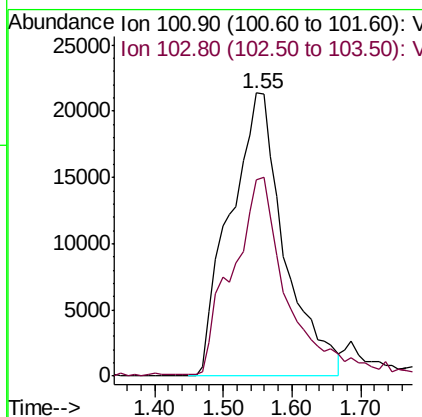
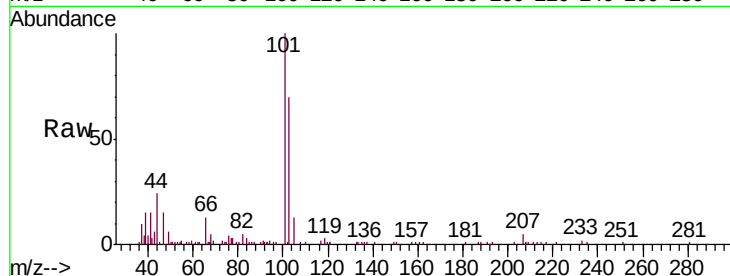
Trichlorofluoromethane
Concen: 23.551 ug/l
RT: 1.55 min Scan# 103
Delta R.T. -0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
101	100		
103	69.0	48.5	72.7

Manual Integrations
APPROVED

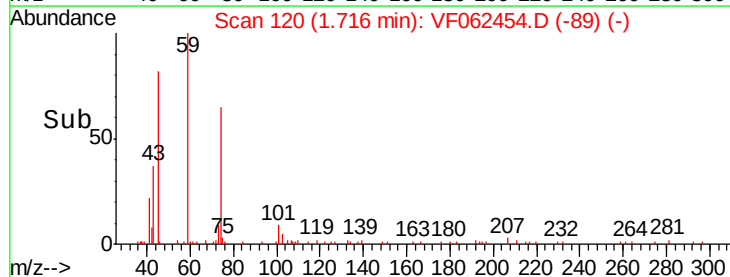
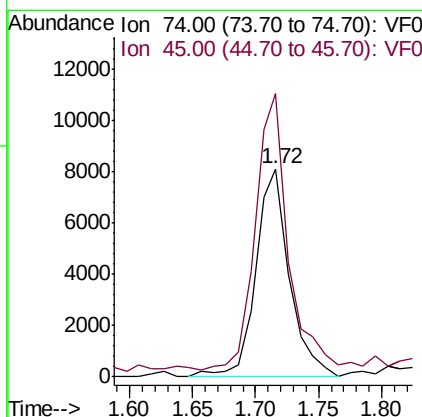
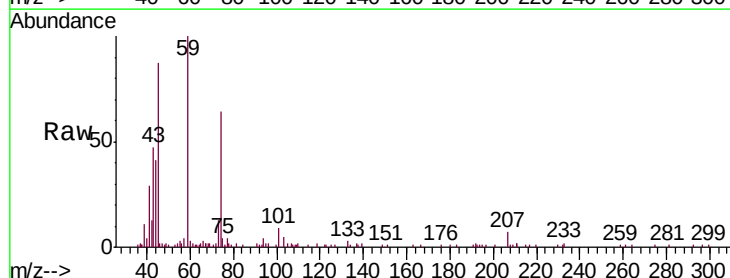
MMDadoda
5/12/2019 12:04:26 PM

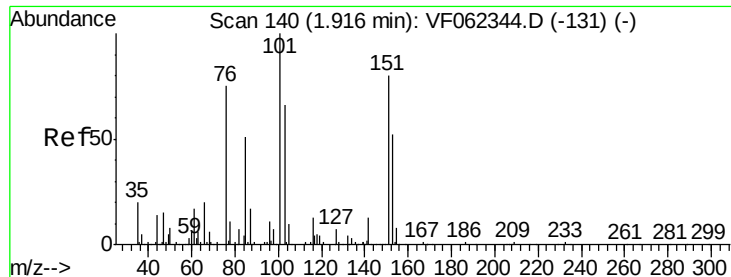


#8

Diethyl Ether
Concen: 20.053 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
74	100		
45	130.2	73.9	221.6





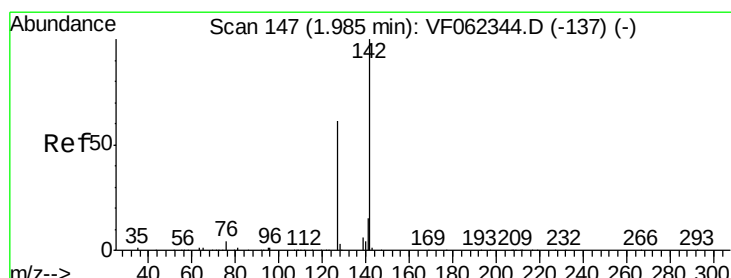
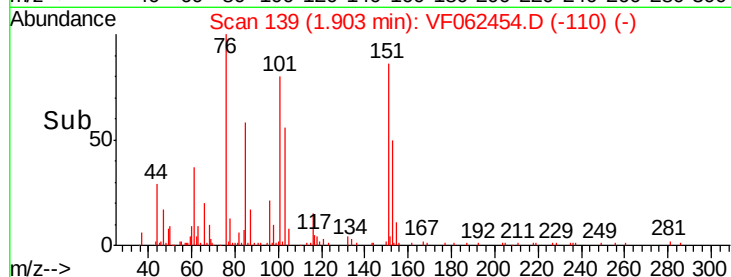
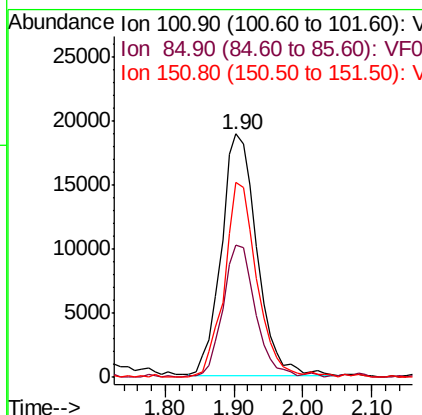
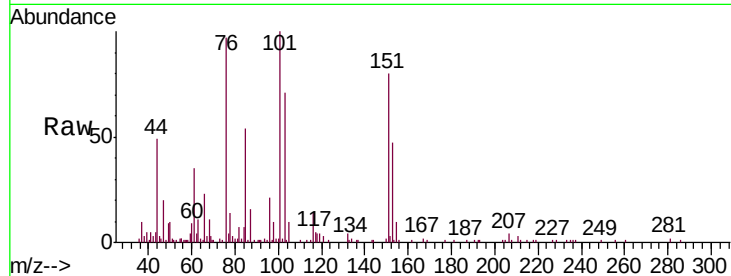
#9
1,1,2-Trichlorotrifluoroethane
Concen: 23.752 ug/l
RT: 1.90 min Scan# 139
Delta R.T. -0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	67594		
85	50.1	39.5	59.3	
151	73.4	59.9	89.9	

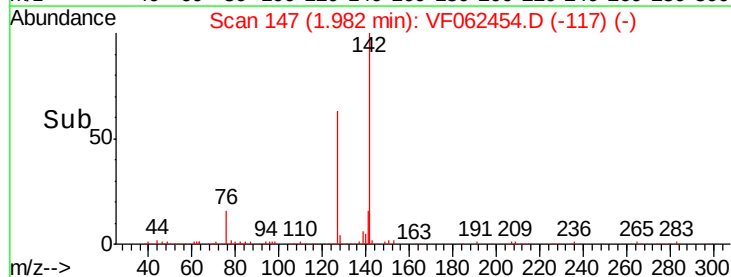
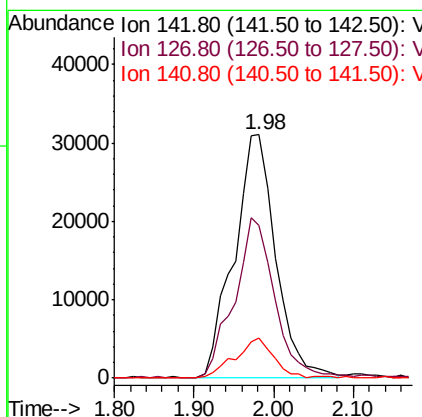
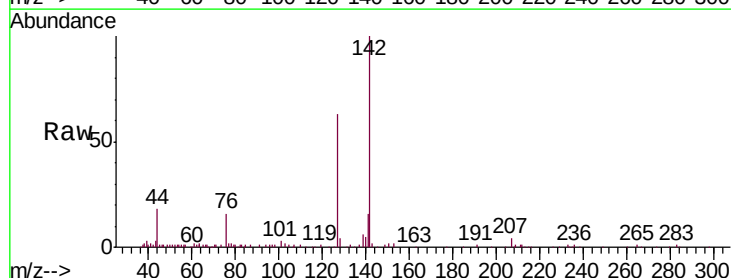
Manual Integrations
APPROVED

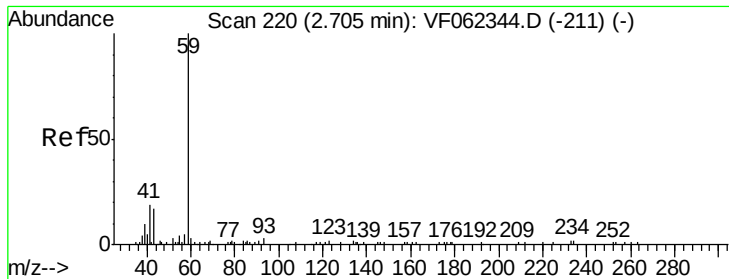
MMDadoda
5/12/2019 12:04:26 PM



#10
Methyl Iodide
Concen: 24.086 ug/l
RT: 1.98 min Scan# 147
Delta R.T. -0.00 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	112956		
127	63.7	48.4	72.6	
141	15.4	12.2	18.4	





#11

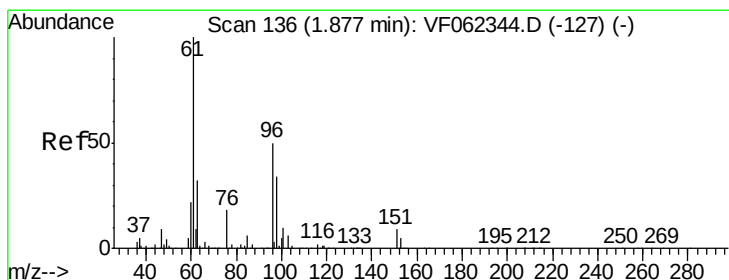
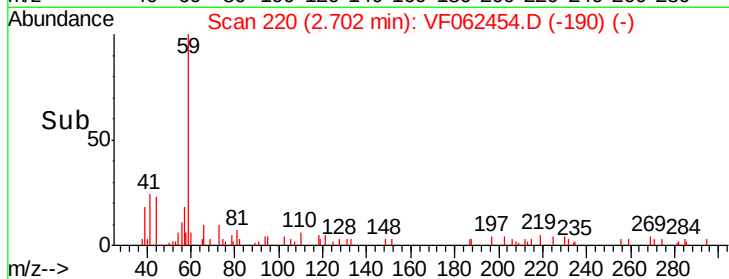
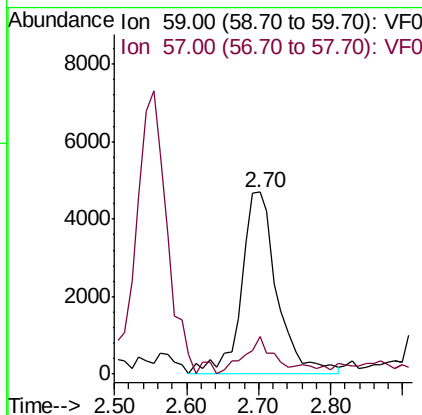
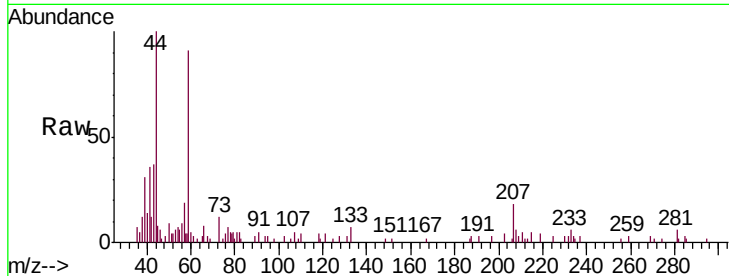
Tert butyl alcohol
Concen: 97.112 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.00 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
59	100		
57	16.7	9.3	13.9#

Manual Integrations
APPROVED

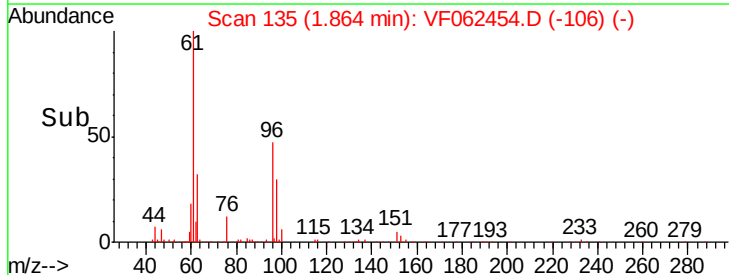
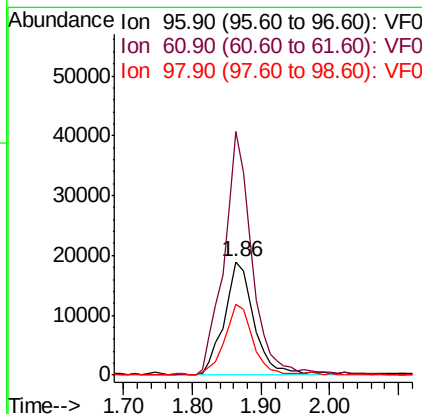
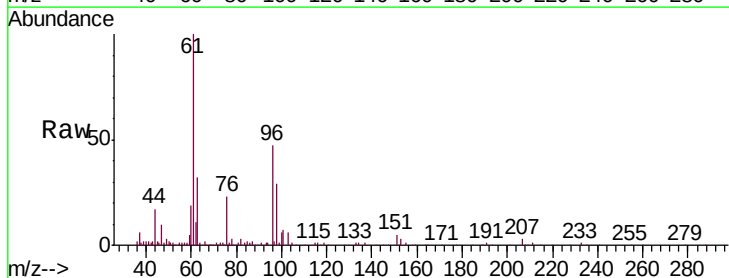
MMDadoda
5/12/2019 12:04:26 PM

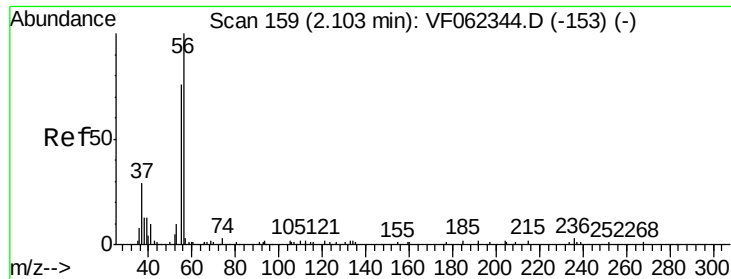


#12

1,1-Dichloroethene
Concen: 23.727 ug/l
RT: 1.86 min Scan# 135
Delta R.T. -0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	214.4	163.2	244.8
98	62.0	55.2	82.8





#13

Acrolein

Concen: 101.265 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.00 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 56 Resp: 11858

Ion Ratio Lower Upper

56 100

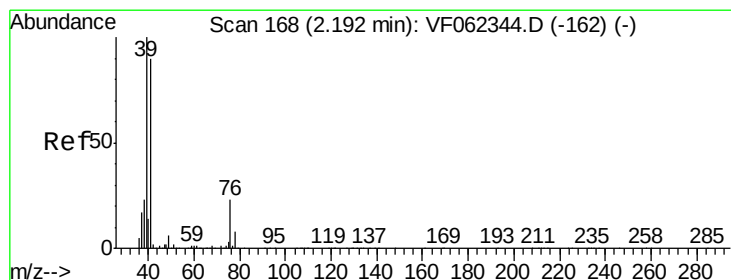
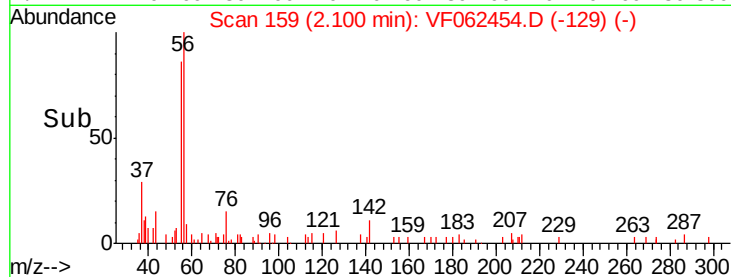
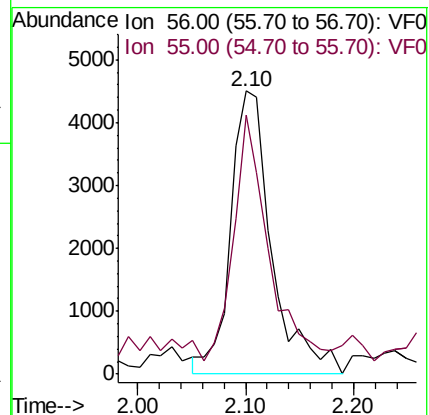
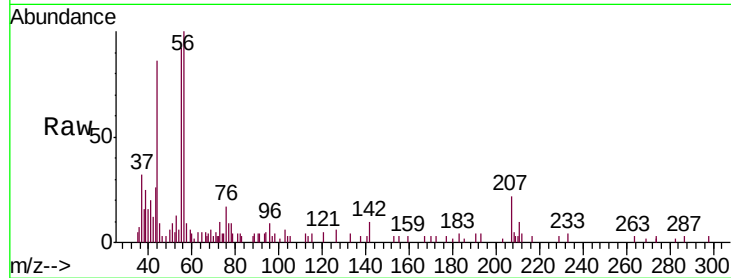
55 73.4 58.4 87.6

Manual Integrations

APPROVED

MMDadoda

5/12/2019 12:04:26 PM



#14

Allyl chloride

Concen: 35.413 ug/l m

RT: 2.20 min Scan# 169

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

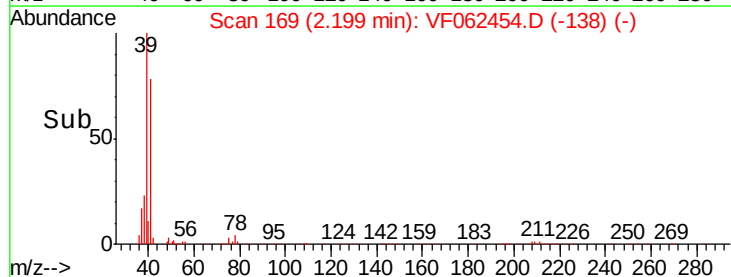
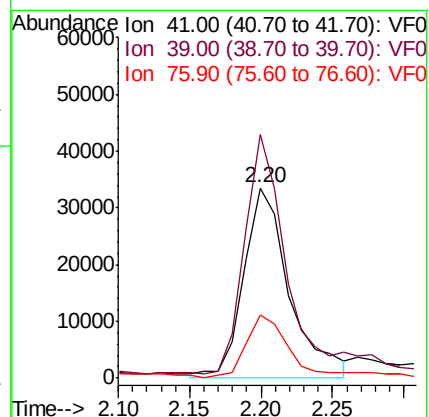
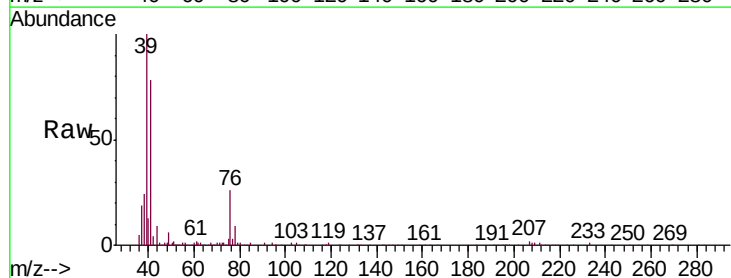
Tgt Ion: 41 Resp: 75680

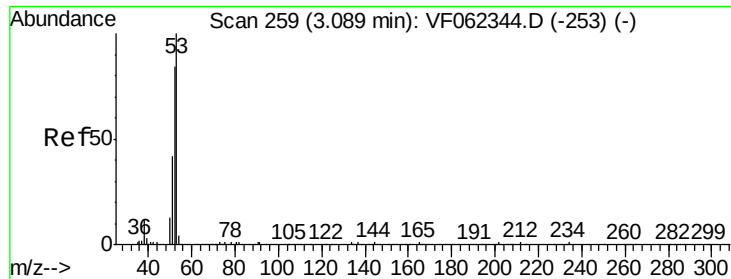
Ion Ratio Lower Upper

41 100

39 119.9 90.8 136.2

76 32.8 22.2 33.4





#15

Acrylonitrile

Concen: 102.091 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

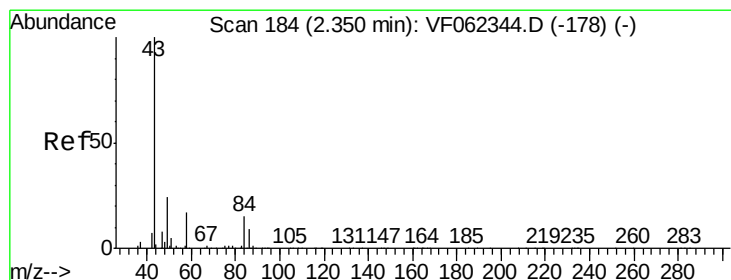
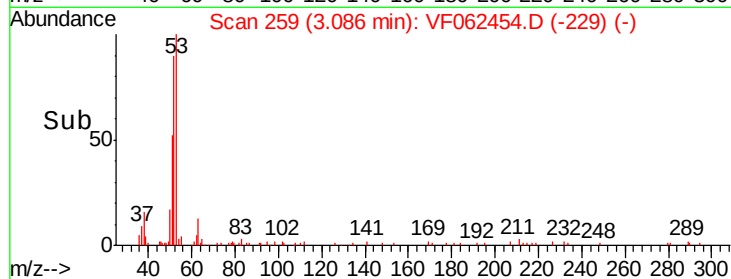
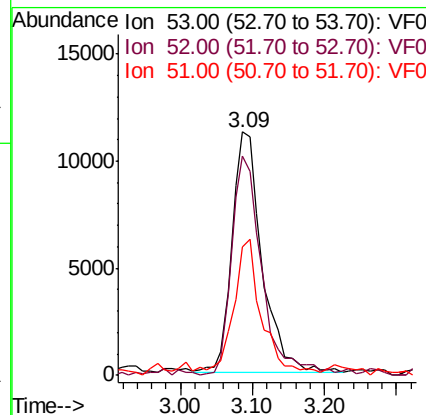
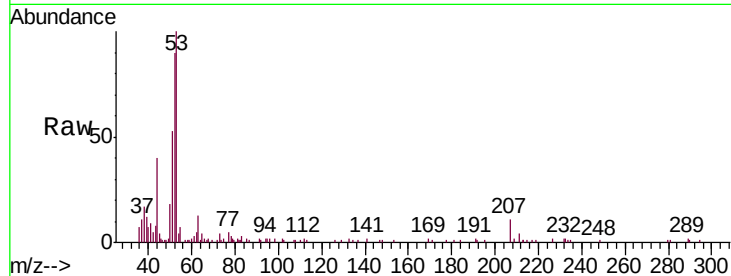
ClientSampleId :

VF0511SBS01

Tgt Ion:	53	Resp:	32593
Ion	Ratio	Lower	Upper
53	100		
52	91.8	77.2	115.8
51	53.2	40.6	61.0

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#16

Acetone

Concen: 110.452 ug/l

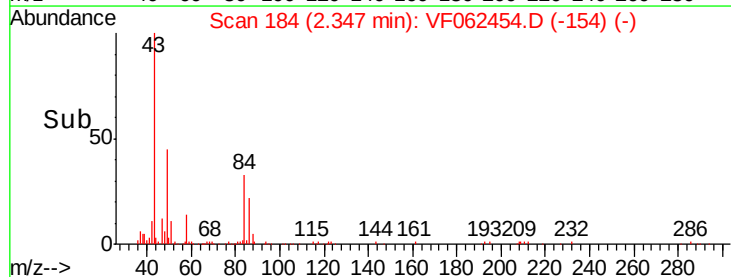
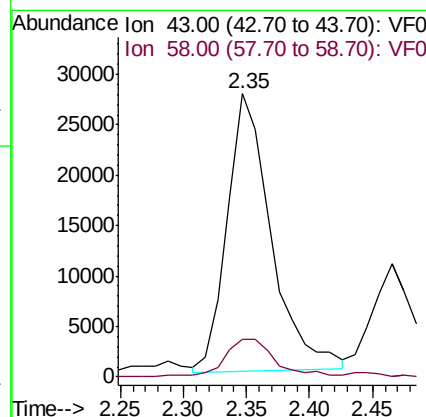
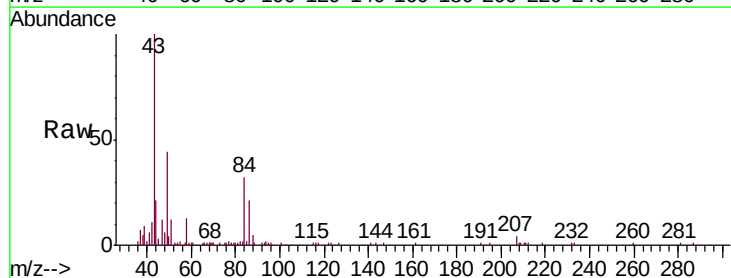
RT: 2.35 min Scan# 184

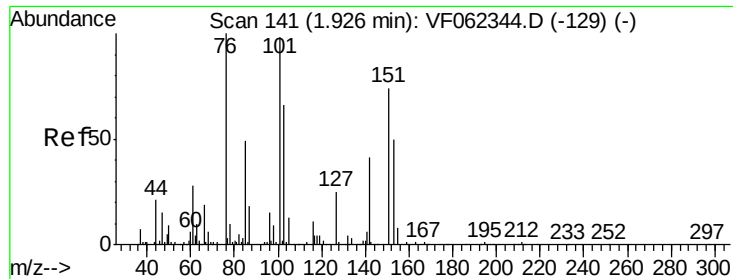
Delta R.T. -0.00 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion:	43	Resp:	66630
Ion	Ratio	Lower	Upper
43	100		
58	13.3	13.1	19.7





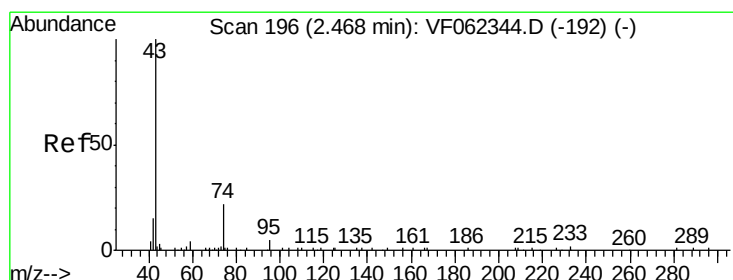
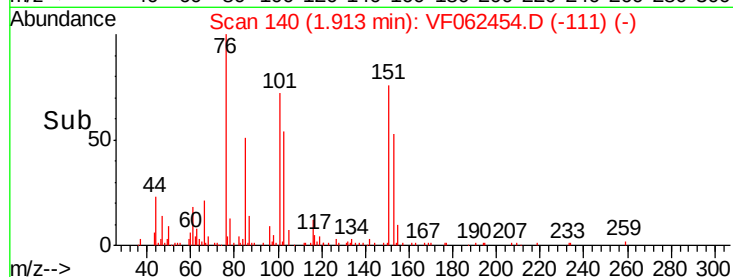
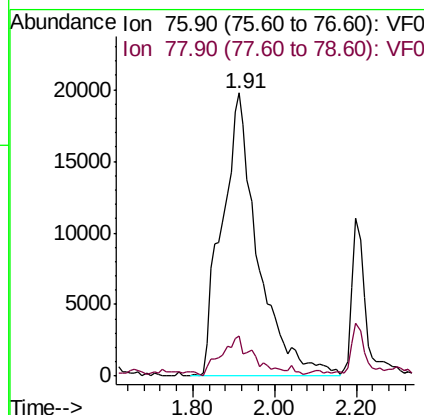
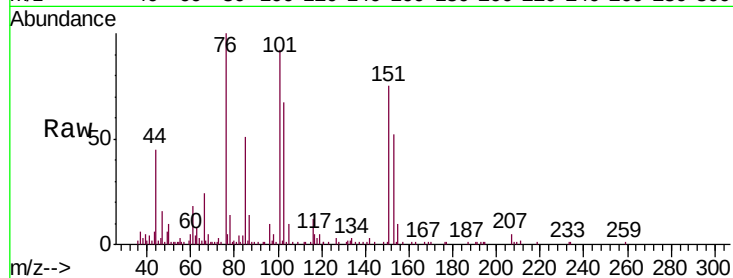
#17
Carbon Disulfide
Concen: 22.767 ug/l
RT: 1.91 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion: 76 Resp: 120096
Ion Ratio Lower Upper
76 100
78 13.0 9.0 13.4

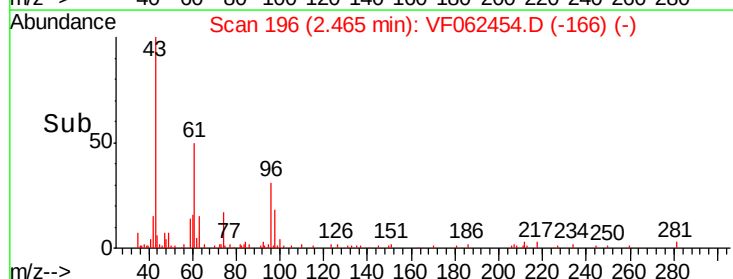
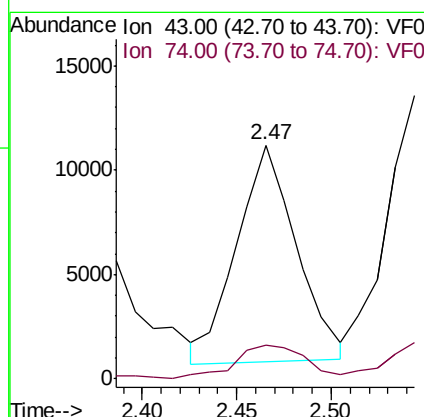
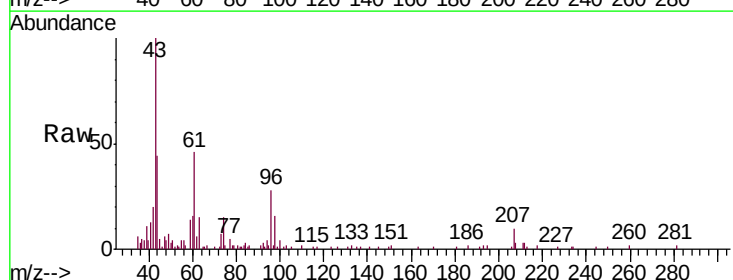
Manual Integrations
APPROVED

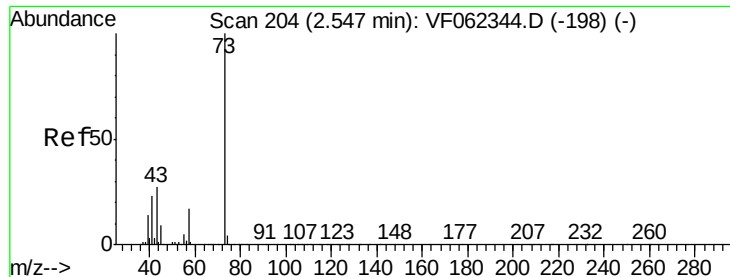
MMDadoda
5/12/2019 12:04:26 PM



#18
Methyl Acetate
Concen: 18.710 ug/l
RT: 2.47 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion: 43 Resp: 22740
Ion Ratio Lower Upper
43 100
74 18.7 15.0 22.4





#19

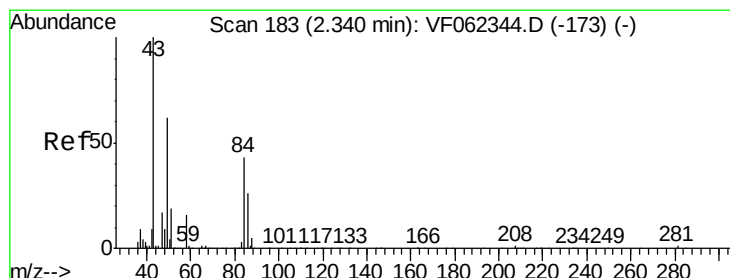
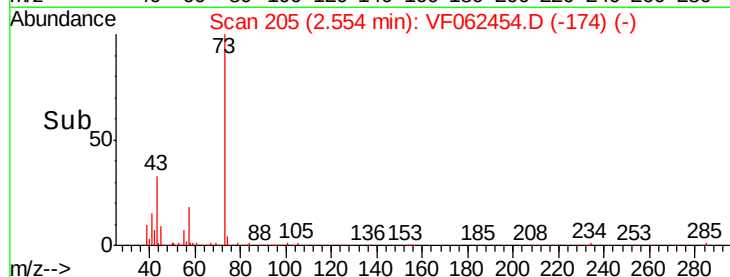
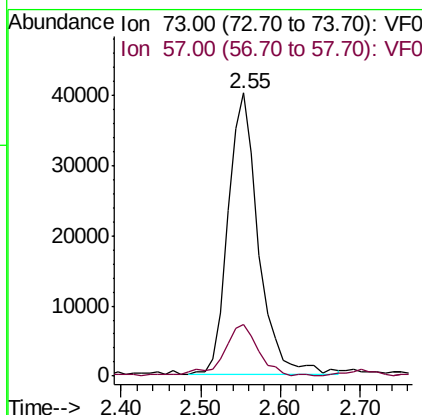
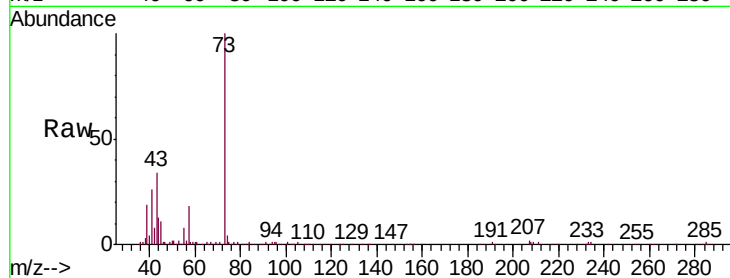
Methyl tert-butyl Ether
Concen: 21.292 ug/l
RT: 2.55 min Scan# 205
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion: 73 Resp: 106332
Ion Ratio Lower Upper
73 100
57 17.4 13.7 20.5

Manual Integrations
APPROVED

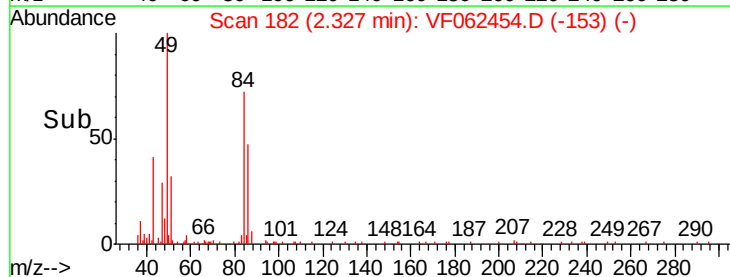
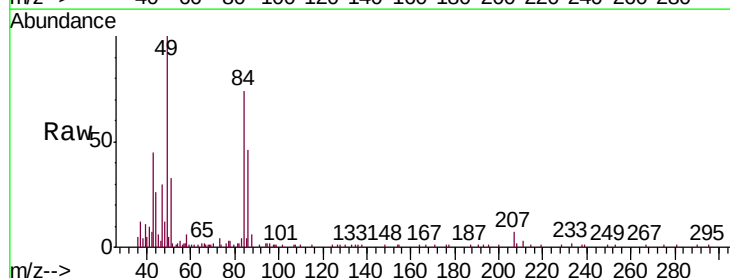
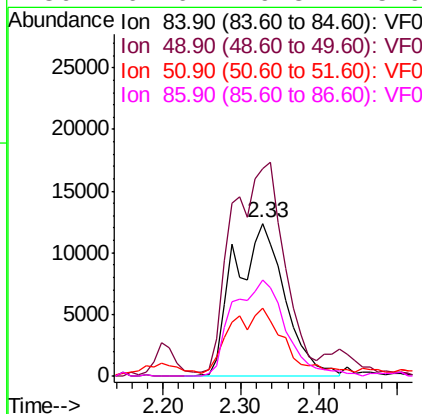
MMDadoda
5/12/2019 12:04:26 PM

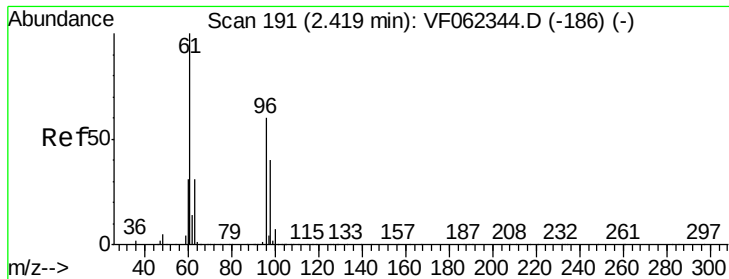


#20

Methylene Chloride
Concen: 25.264 ug/l m
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion: 84 Resp: 55140
Ion Ratio Lower Upper
84 100
49 135.7 117.5 176.3
51 44.8 37.0 55.4
86 62.6 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 21.802 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

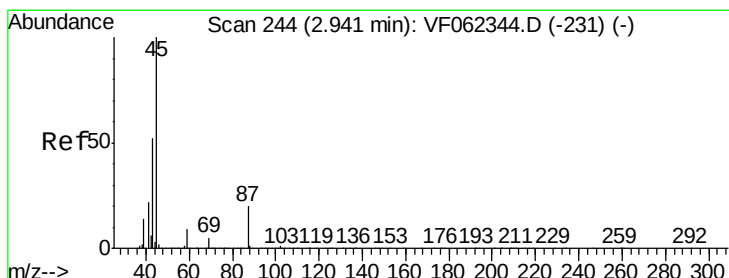
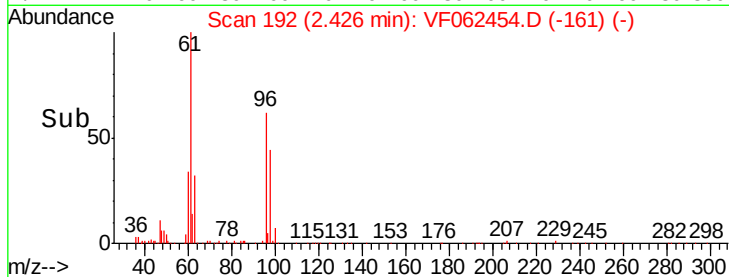
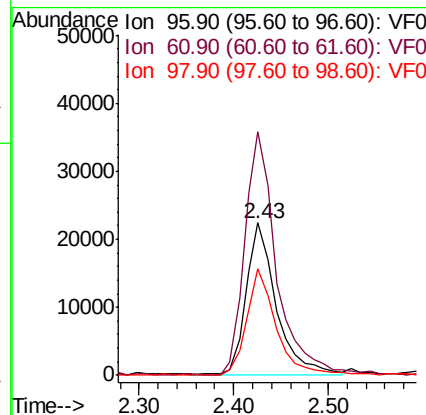
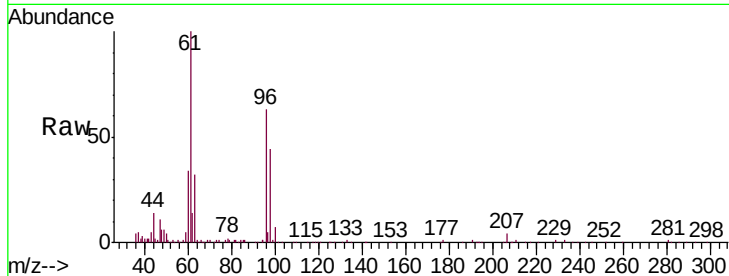
ClientSampleId :

VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.8	133.2	199.8
98	69.8	53.1	79.7

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#22

Diisopropyl ether

Concen: 22.264 ug/l

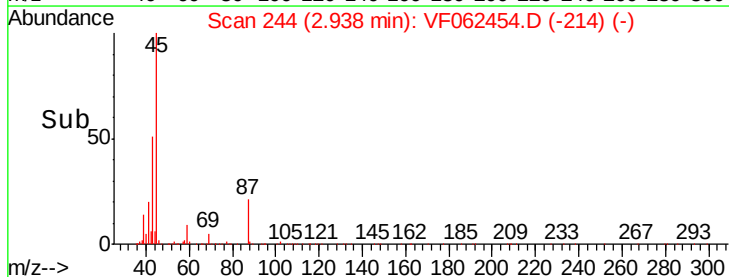
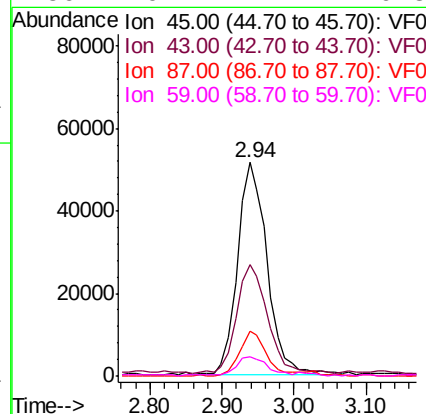
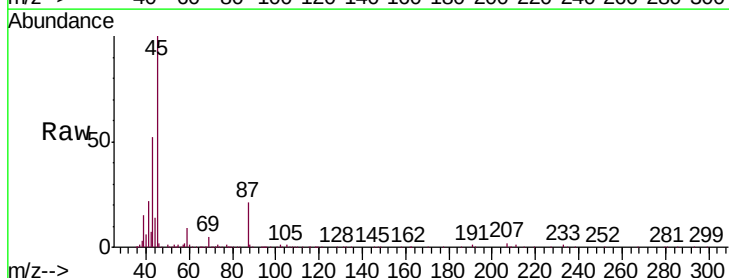
RT: 2.94 min Scan# 244

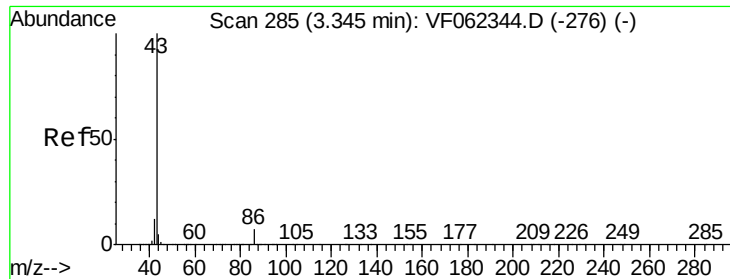
Delta R.T. -0.00 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
45	100		
43	50.6	41.4	62.0
87	21.1	15.8	23.6
59	9.2	7.2	10.8





#23

Vinyl Acetate

Concen: 103.525 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 43 Resp: 308182

Ion Ratio Lower Upper

43 100

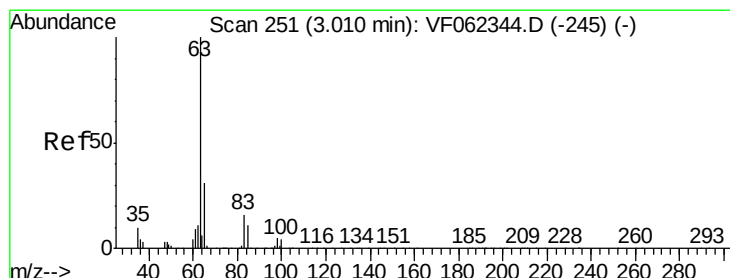
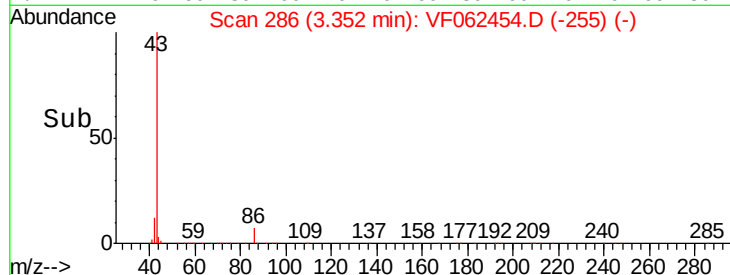
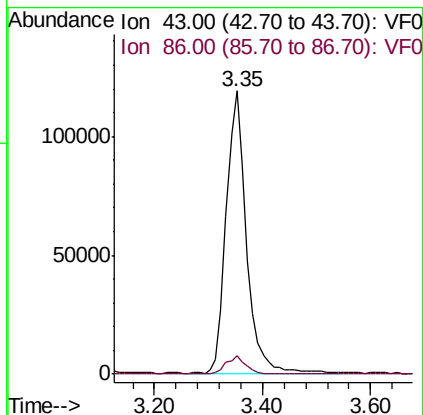
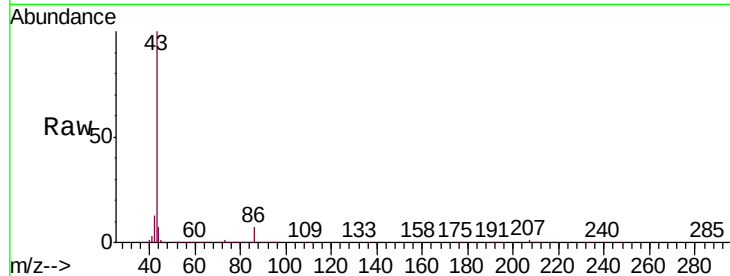
86 6.6 5.7 8.5

Manual Integrations

APPROVED

MMDadoda

5/12/2019 12:04:26 PM



#24

1,1-Dichloroethane

Concen: 23.979 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

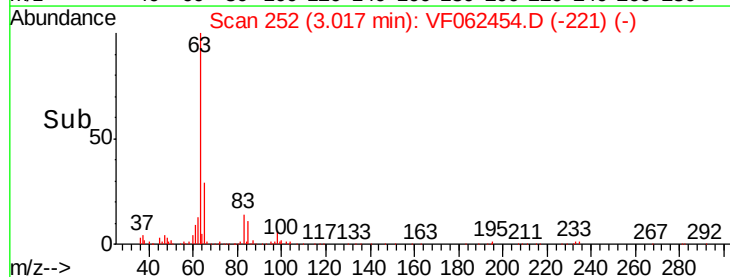
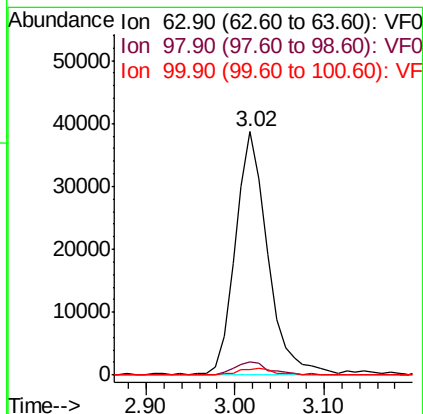
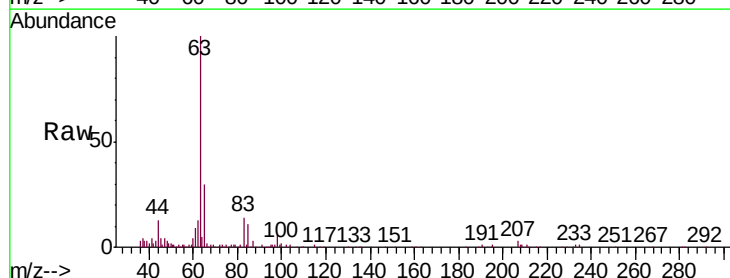
Tgt Ion: 63 Resp: 96798

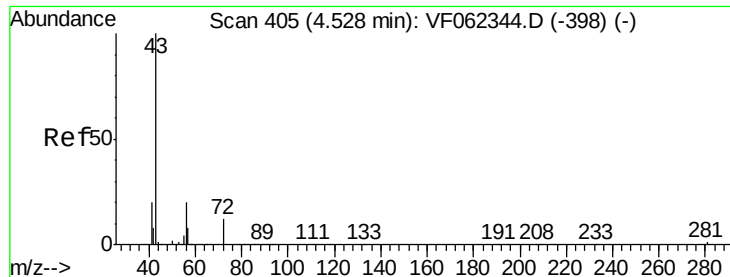
Ion Ratio Lower Upper

63 100

98 5.6 2.6 8.0

100 2.4 1.8 5.4





#25

2-Butanone

Concen: 104.263 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.00 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 43 Resp: 79018

Ion Ratio Lower Upper

43 100

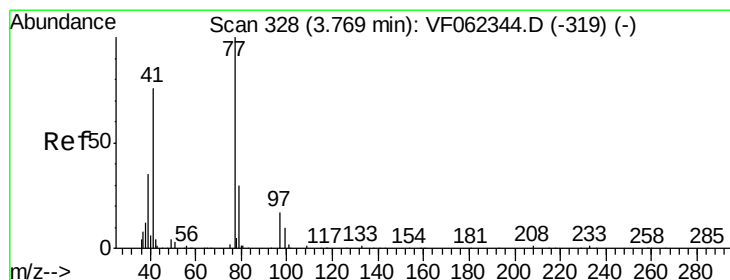
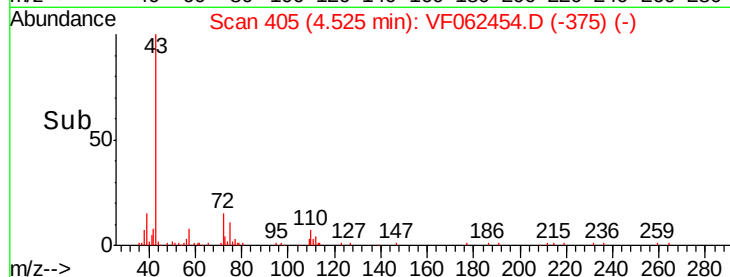
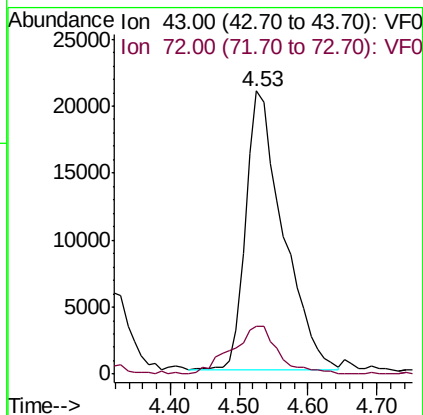
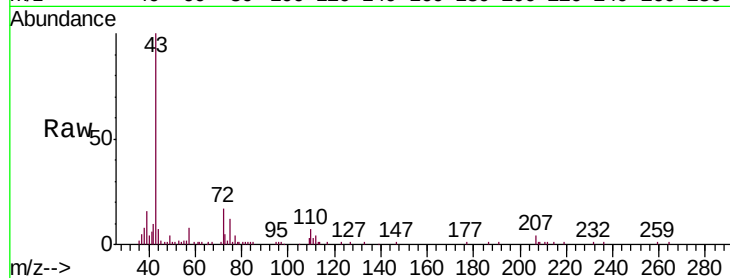
72 17.3 14.2 21.4

Manual Integrations

APPROVED

MMDadoda

5/12/2019 12:04:26 PM



#26

2,2-Dichloropropane

Concen: 28.207 ug/l

RT: 3.79 min Scan# 330

Delta R.T. 0.02 min

Lab File: VF062454.D

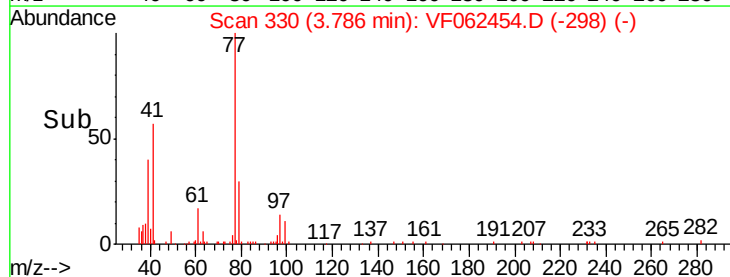
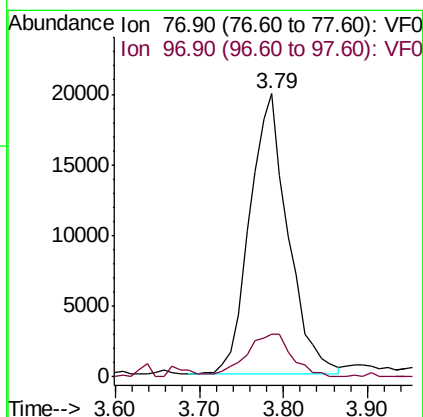
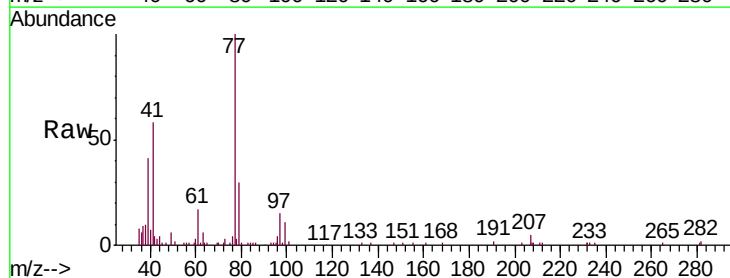
Acq: 11 May 2019 12:28

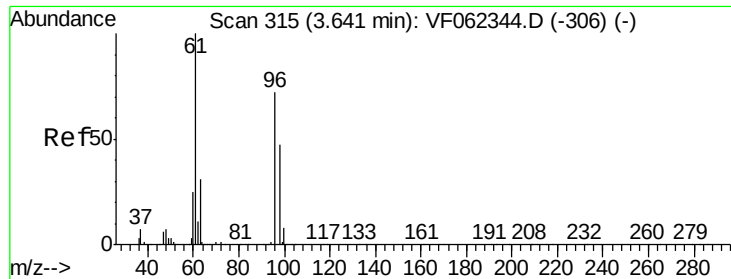
Tgt Ion: 77 Resp: 63588

Ion Ratio Lower Upper

77 100

97 18.2 9.5 28.5





#27

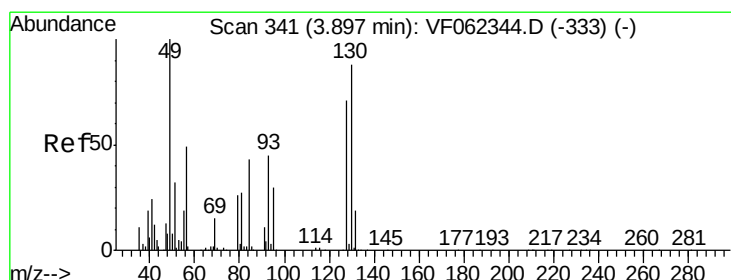
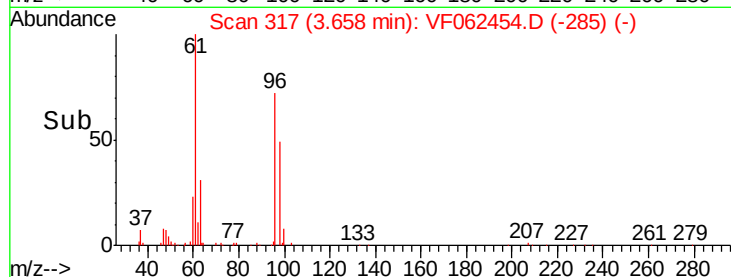
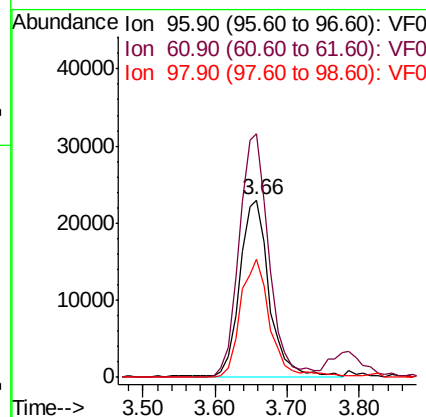
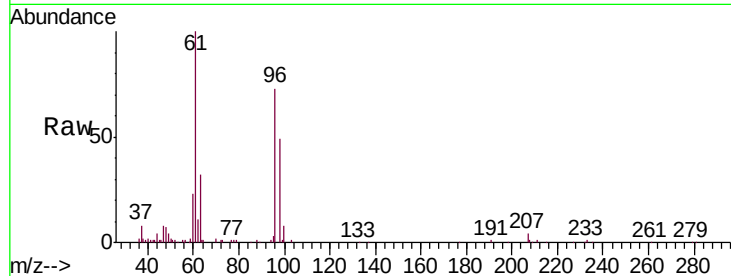
cis-1,2-Dichloroethene
Concen: 22.922 ug/l
RT: 3.66 min Scan# 317
Delta R.T. 0.02 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	66044		
61	137.5	0.0	263.0	
98	66.6	0.0	130.8	

Manual Integrations
APPROVED

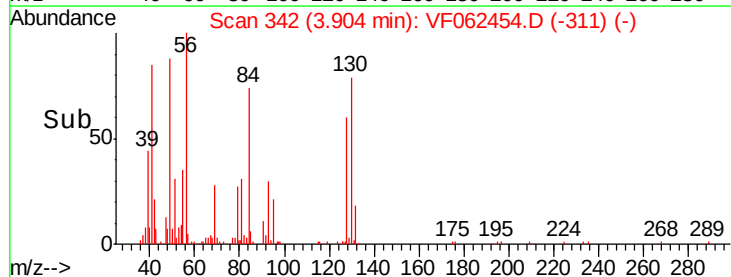
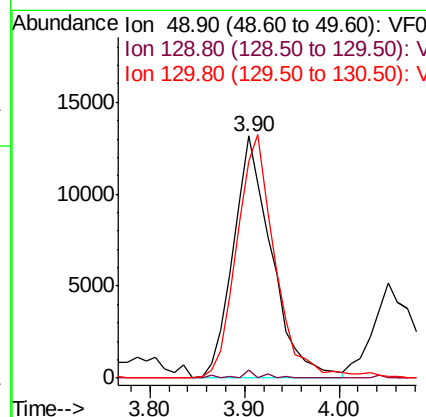
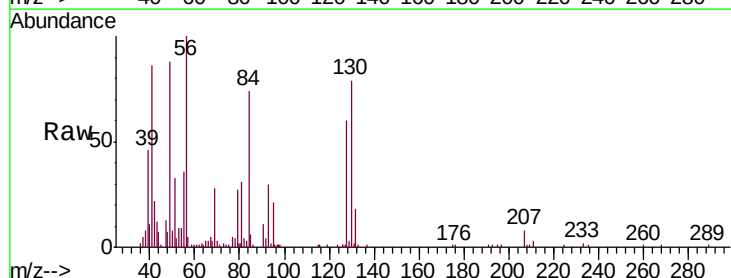
MMDadoda
5/12/2019 12:04:26 PM

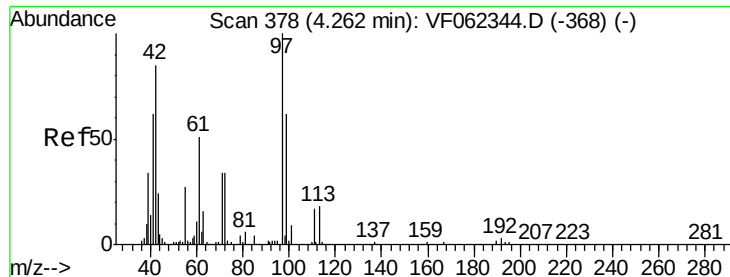


#28

Bromochloromethane
Concen: 20.305 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	37174		
129	1.5	0.0	2.2	
130	99.3	79.4	119.0	





#29

Tetrahydrofuran

Concen: 92.479 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

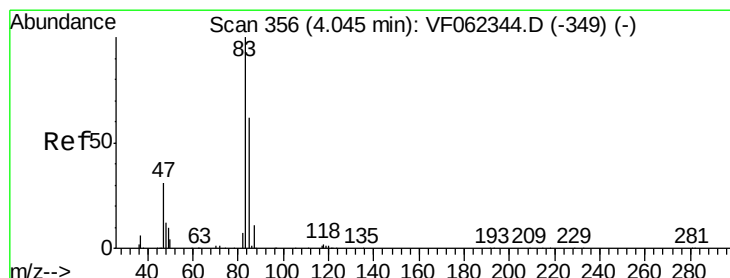
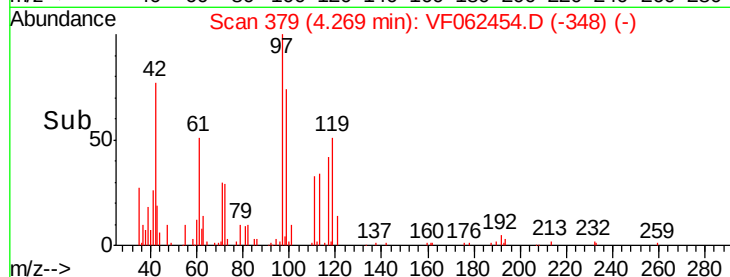
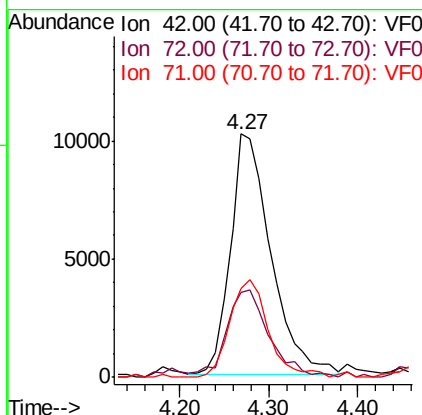
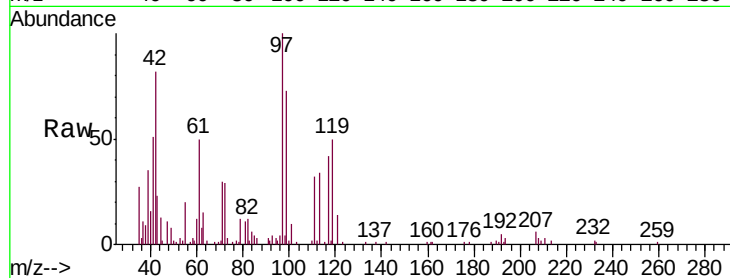
ClientSampleId :

VF0511SBS01

Tgt Ion:	42	Resp:	32212
Ion	Ratio	Lower	Upper
42	100		
72	38.5	31.4	47.0
71	38.8	31.7	47.5

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#30

Chloroform

Concen: 24.556 ug/l

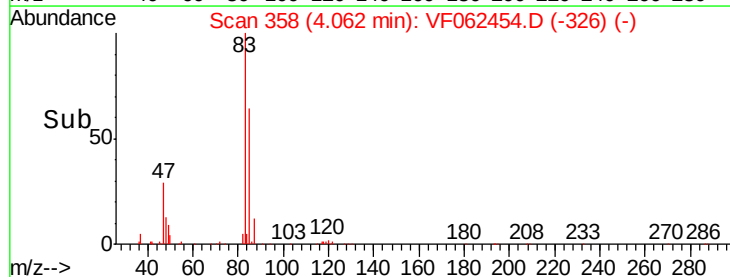
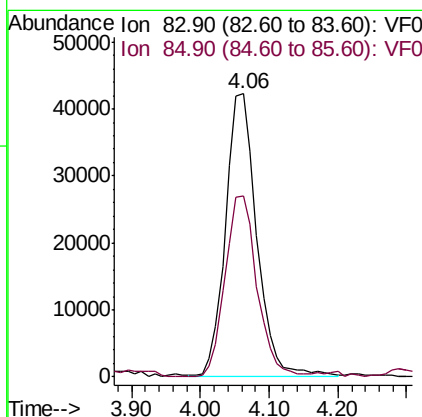
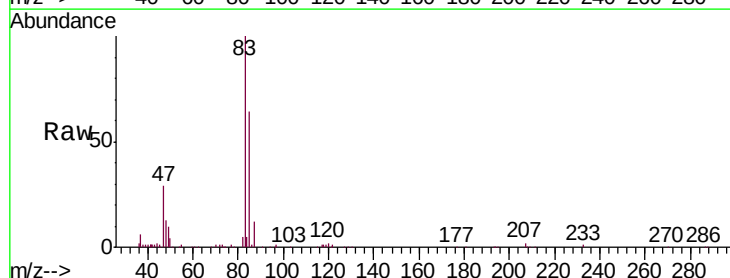
RT: 4.06 min Scan# 358

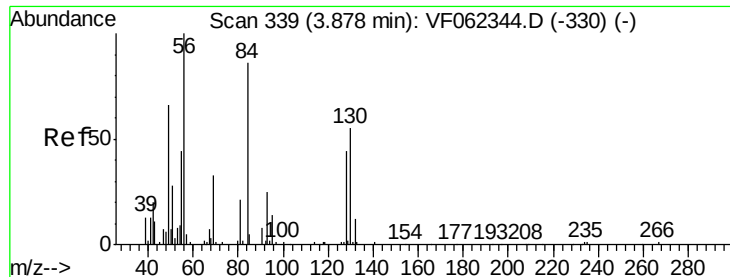
Delta R.T. 0.02 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion:	83	Resp:	133920
Ion	Ratio	Lower	Upper
83	100		
85	64.0	49.6	74.4





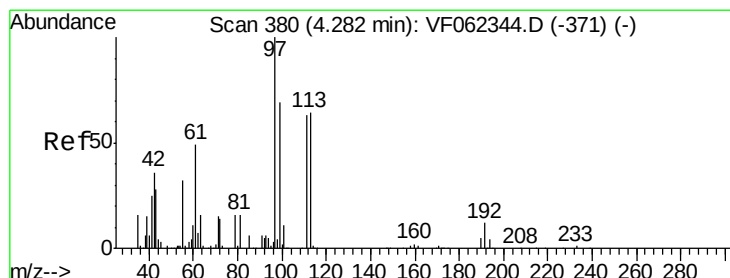
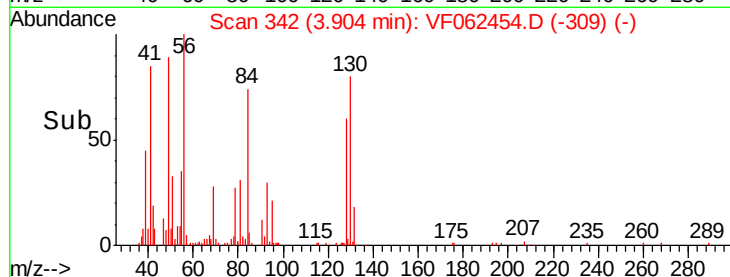
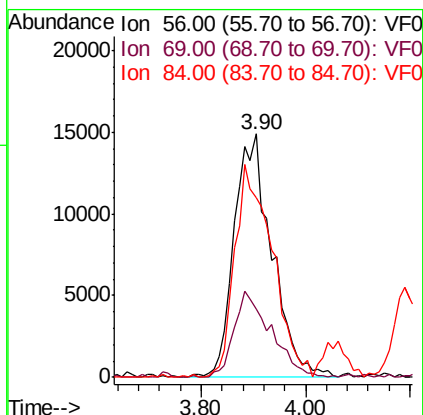
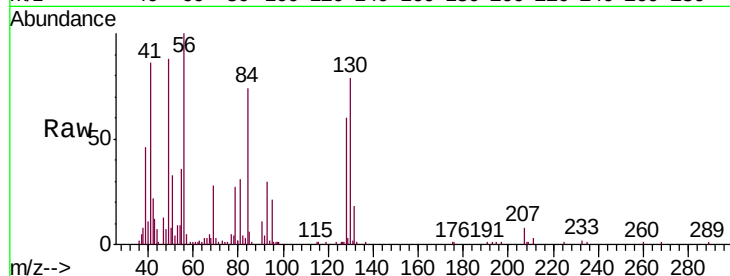
#31
Cyclohexane
Concen: 22.620 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.03 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.1	26.4	39.6
84	73.5	69.0	103.6

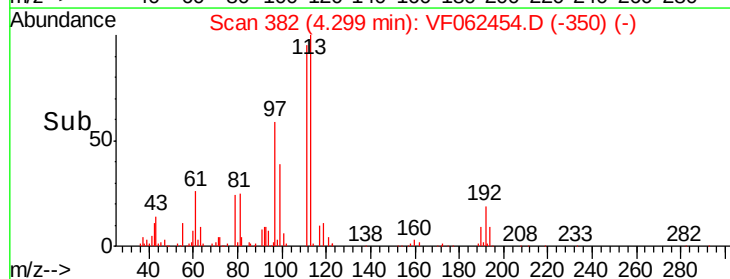
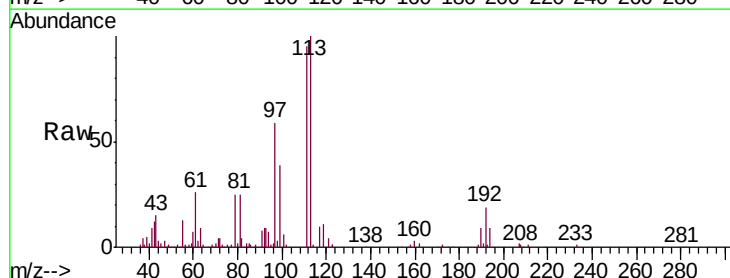
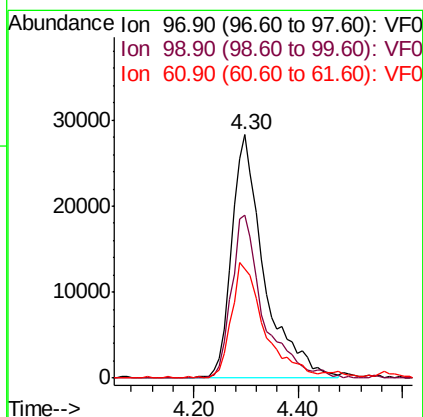
Manual Integrations
APPROVED

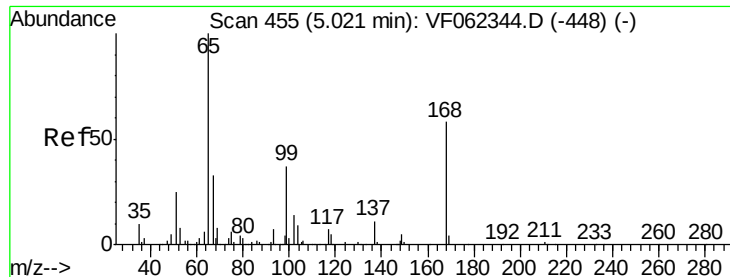
MMDadoda
5/12/2019 12:04:26 PM



#32
1,1,1-Trichloroethane
Concen: 25.687 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.02 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.6	78.8
61	47.8	39.4	59.0





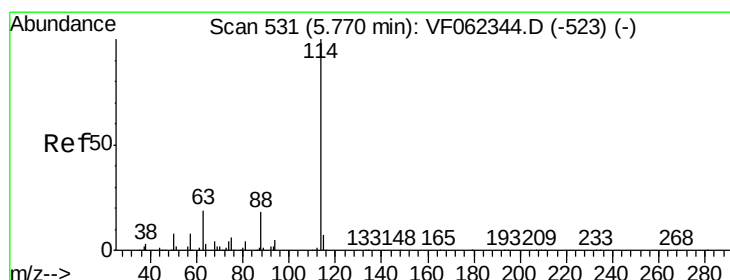
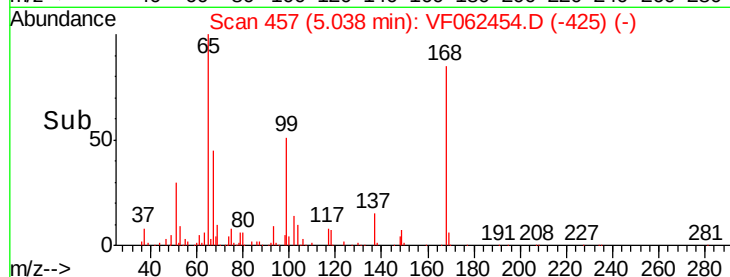
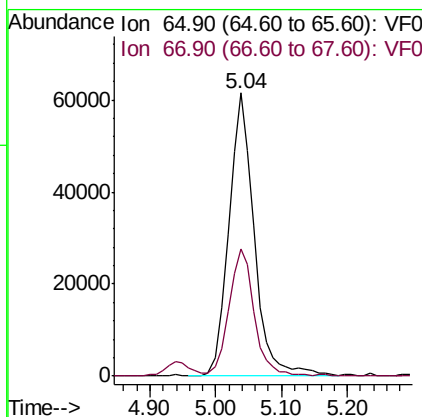
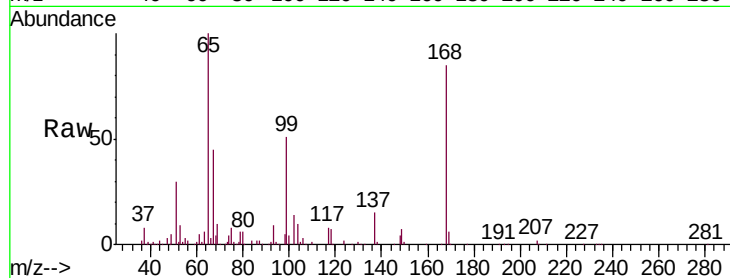
#33
 1,2-Dichloroethane-d4
 Concen: 55.265 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.02 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	164804		
67	44.2	0.0	85.8	

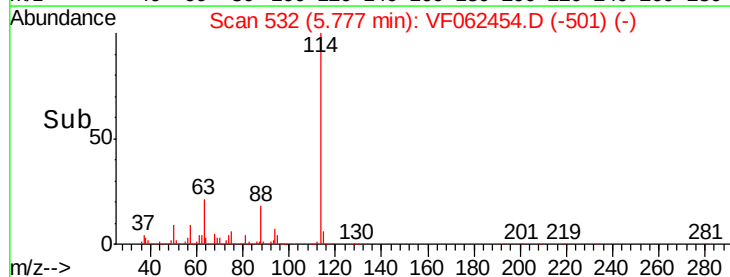
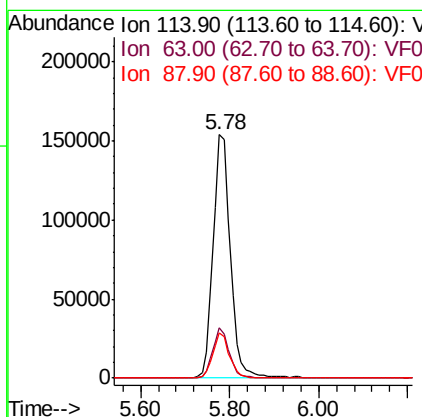
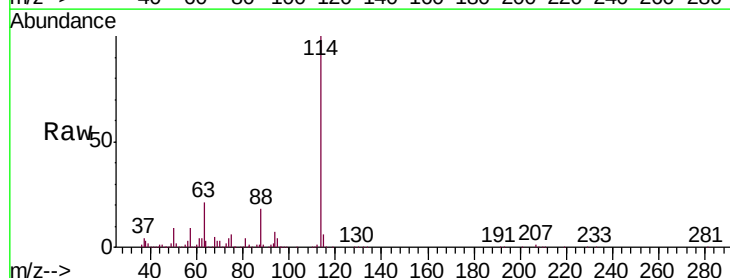
Manual Integrations
 APPROVED

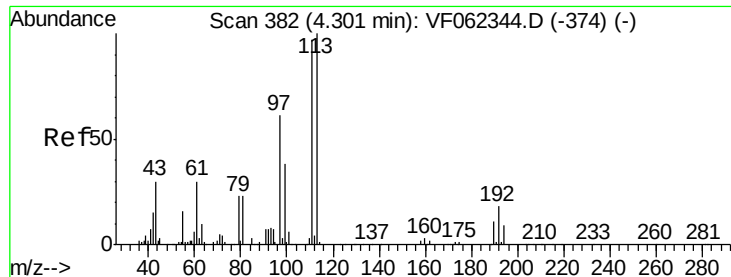
MMDadoda
 5/12/2019 12:04:26 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	412846		
63	20.8	0.0	37.4	
88	18.4	0.0	36.4	





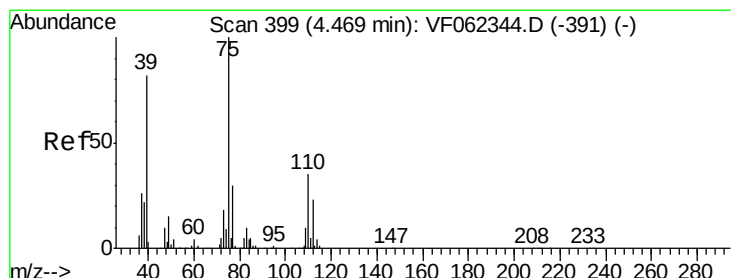
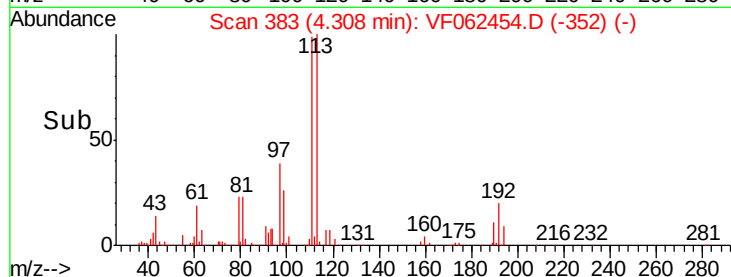
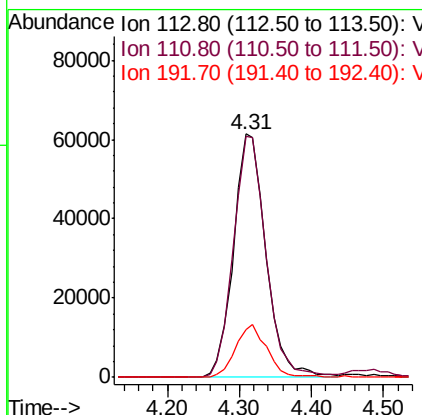
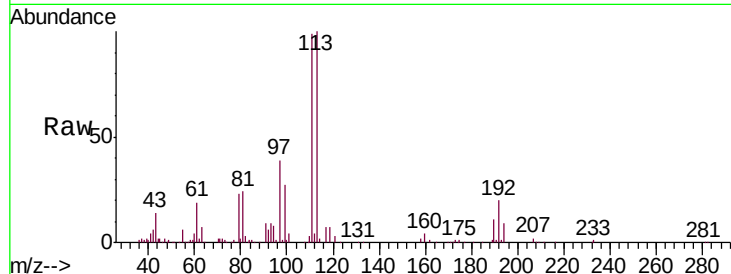
#35
 Dibromofluoromethane
 Concen: 58.732 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	193174		
111	99.3	79.4	119.0	
192	20.9	16.0	24.0	

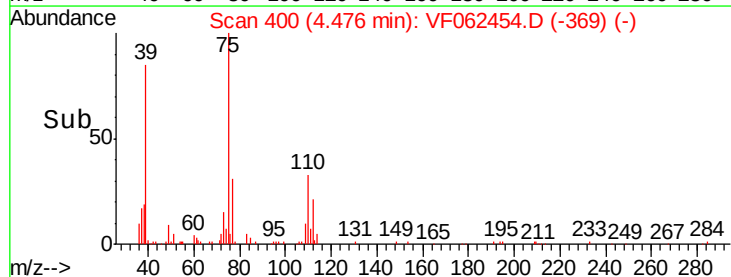
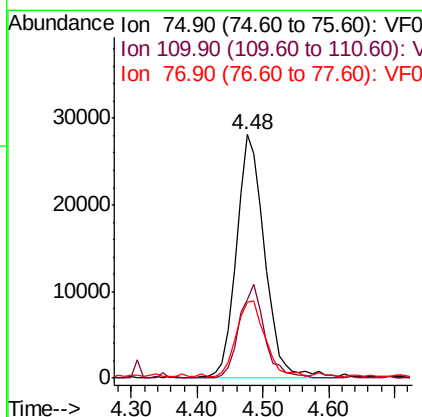
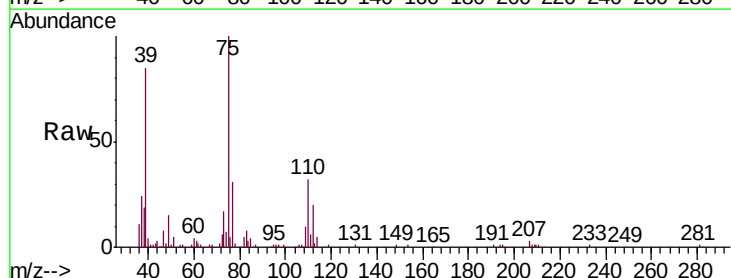
Manual Integrations
 APPROVED

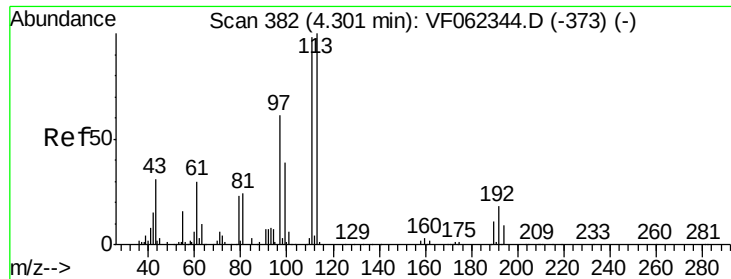
MMDadoda
 5/12/2019 12:04:26 PM



#36
 1,1-Dichloropropene
 Concen: 24.015 ug/l
 RT: 4.48 min Scan# 400
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	85168		
110	34.5	17.2	51.5	
77	31.1	25.2	37.8	





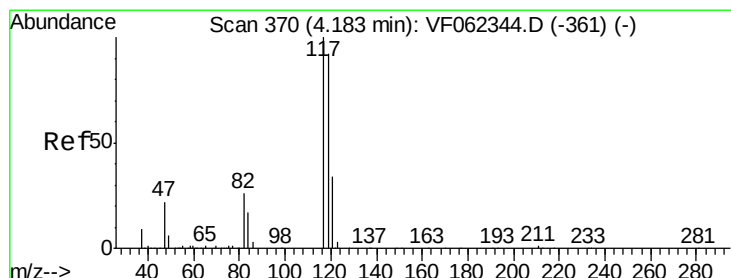
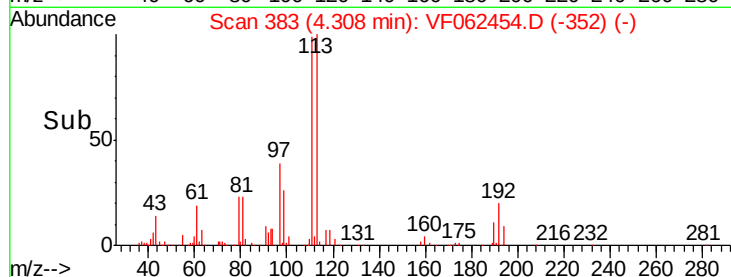
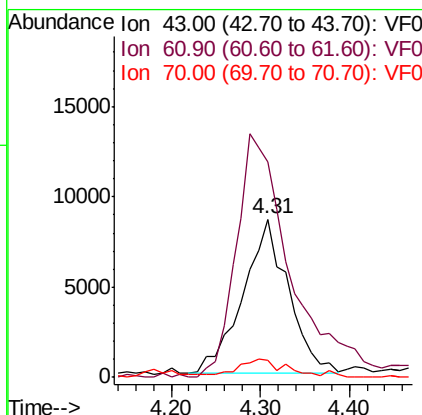
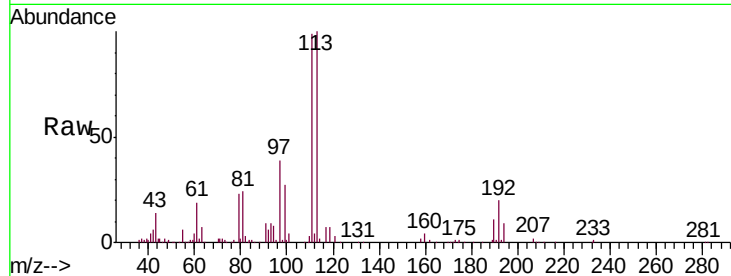
#37
Ethyl Acetate
Concen: 18.723 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	188.8	0.0	0.0#
70	10.0	8.2	12.2

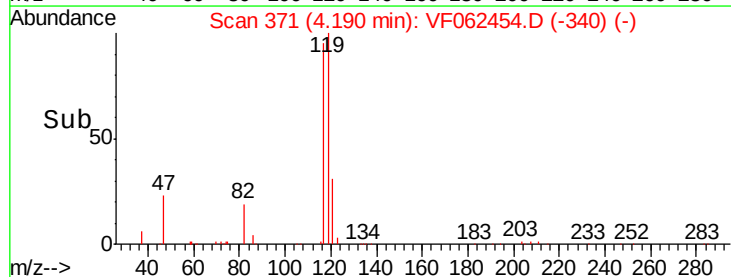
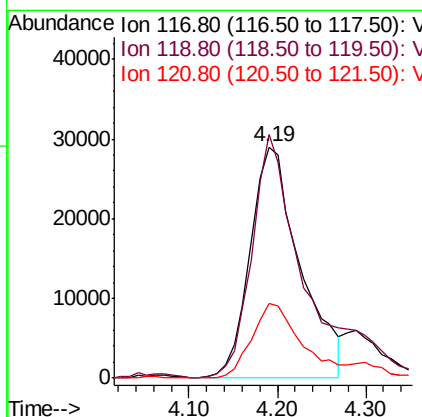
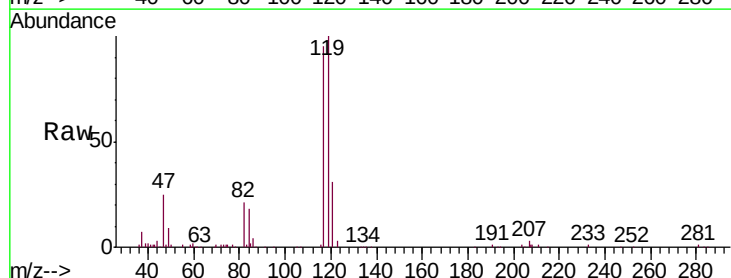
Manual Integrations
APPROVED

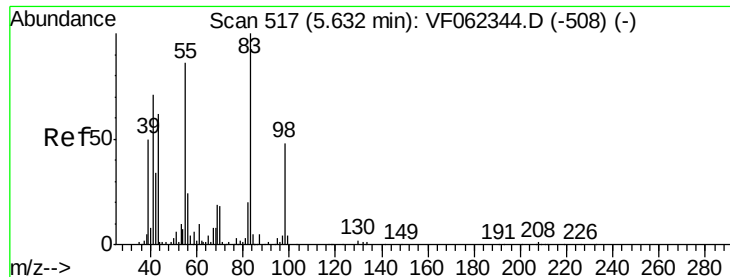
MMDadoda
5/12/2019 12:04:26 PM



#38
Carbon Tetrachloride
Concen: 30.124 ug/l m
RT: 4.19 min Scan# 371
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	105.2	73.4	110.2
121	32.1	27.4	41.0





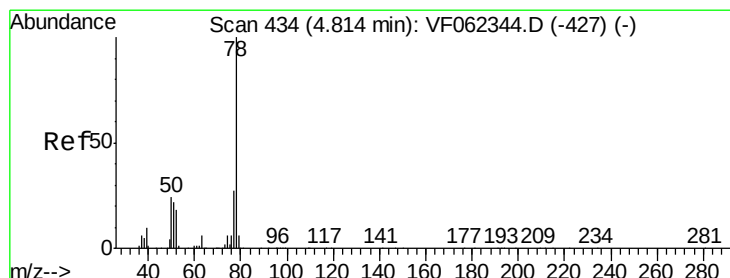
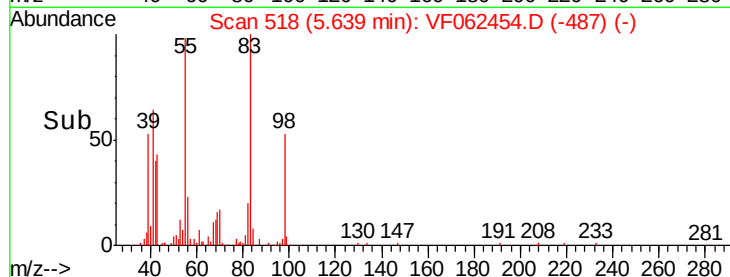
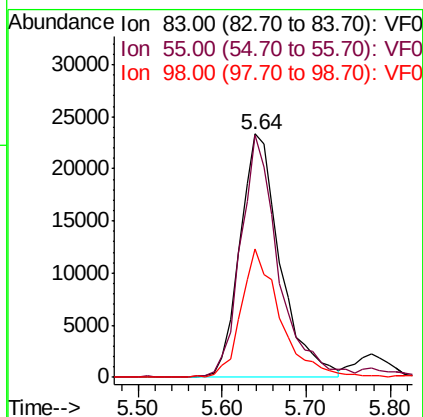
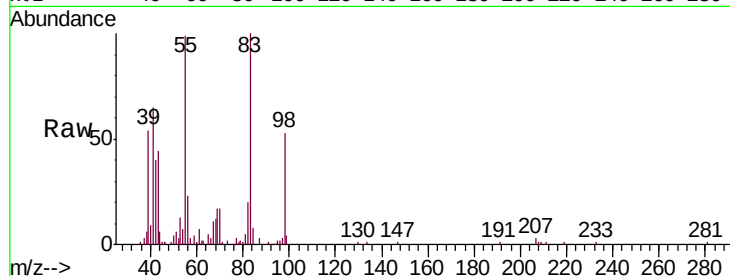
#39
Methylcyclohexane
Concen: 21.966 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	99.4	69.0	103.6
98	53.0	38.6	58.0

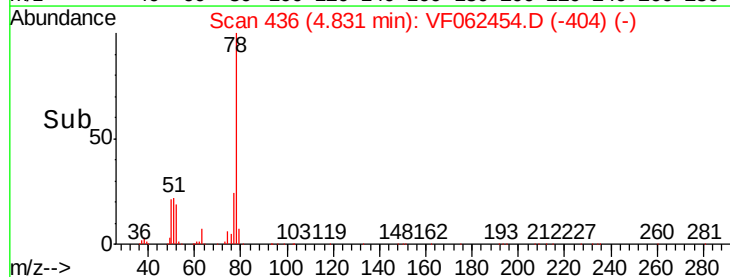
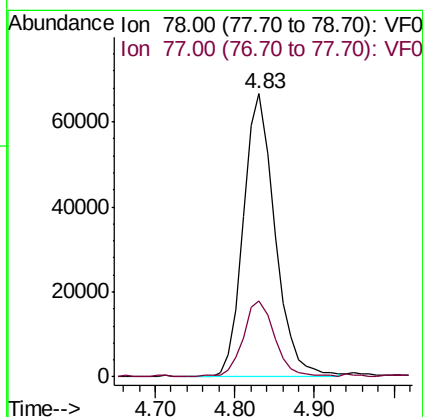
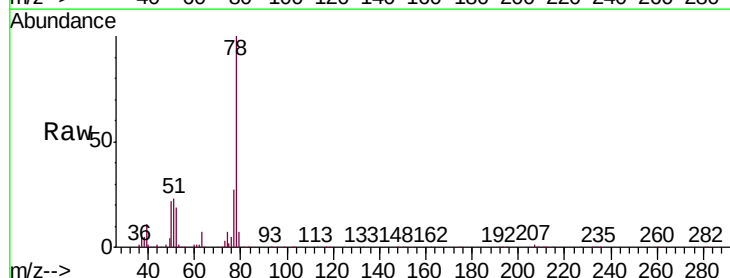
Manual Integrations
APPROVED

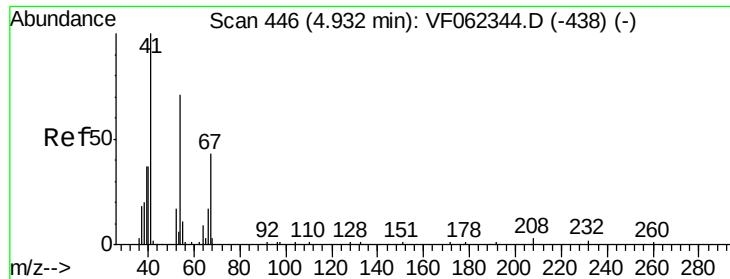
MMDadoda
5/12/2019 12:04:26 PM



#40
Benzene
Concen: 23.363 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.02 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.9	21.6	32.4





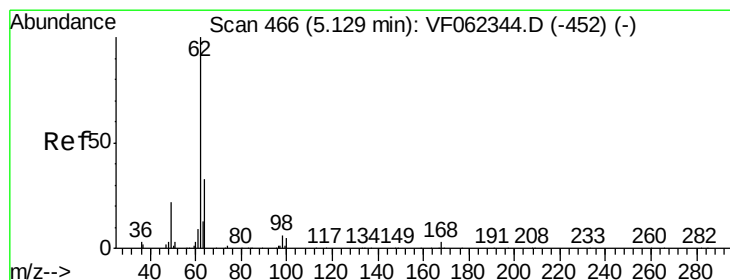
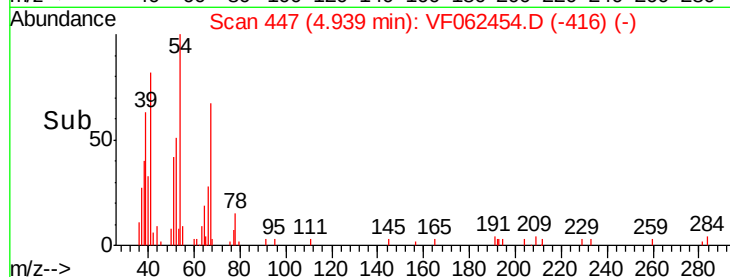
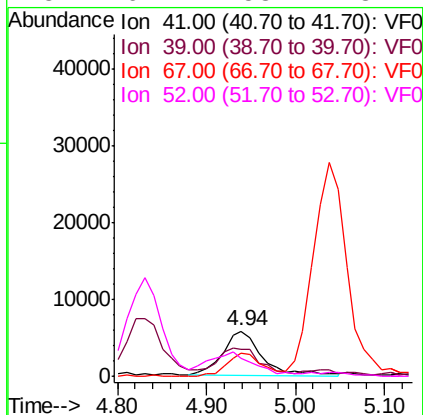
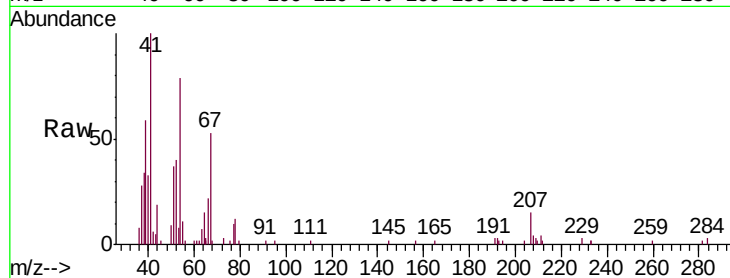
#41
Methacrylonitrile
Concen: 20.951 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	59.0	54.3	81.5
67	47.3	37.8	56.8
52	62.7	58.2	87.4

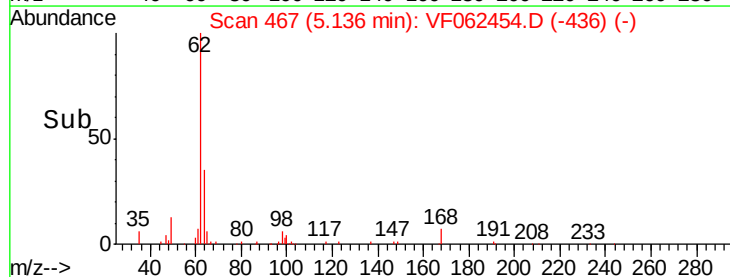
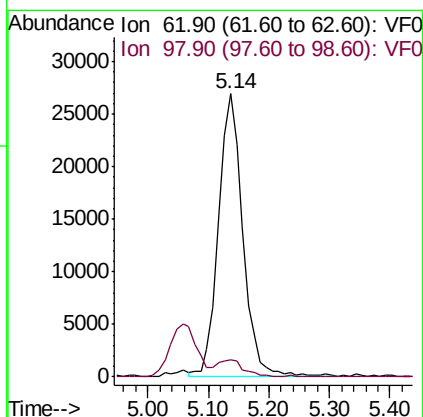
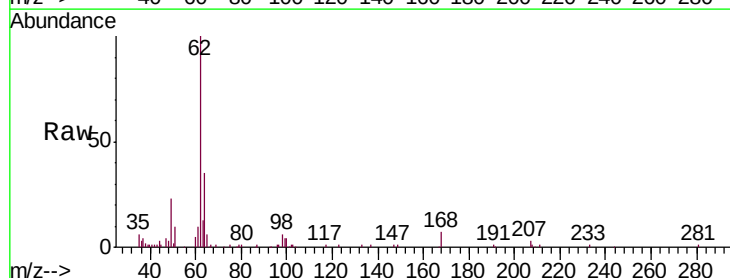
Manual Integrations
APPROVED

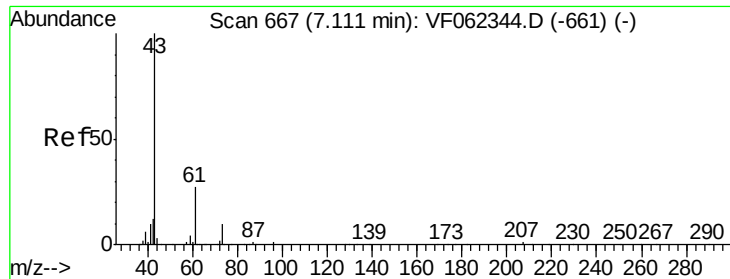
MMDadoda
5/12/2019 12:04:26 PM



#42
1,2-Dichloroethane
Concen: 23.272 ug/l
RT: 5.14 min Scan# 467
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.3	0.0	12.4





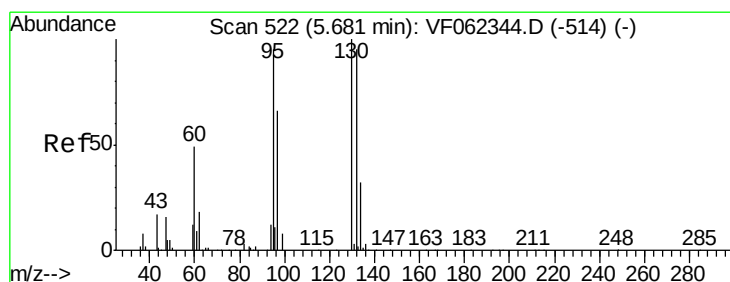
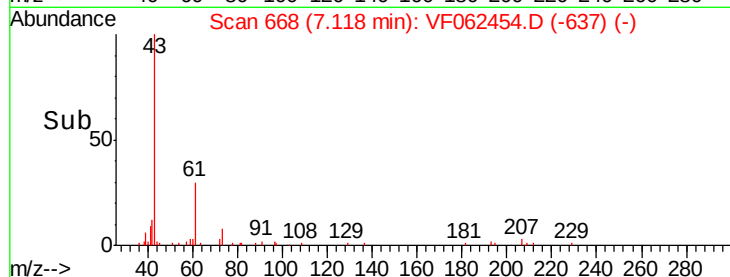
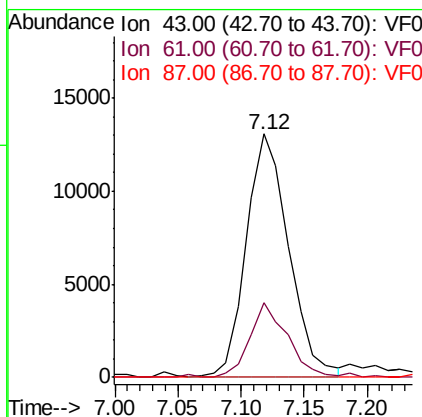
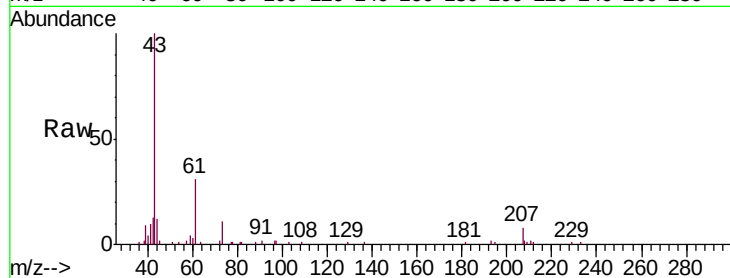
#43
Isopropyl Acetate
Concen: 19.023 ug/l
RT: 7.12 min Scan# 668
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	27.7	22.8	34.2
87	0.0	0.6	1.0

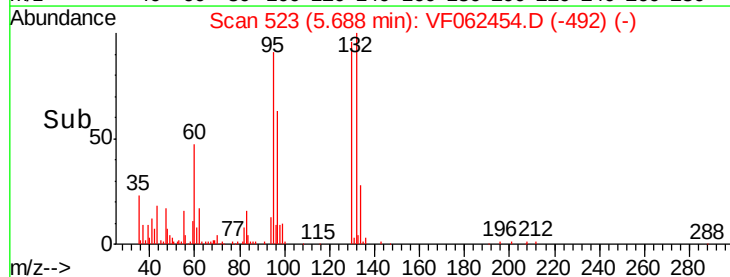
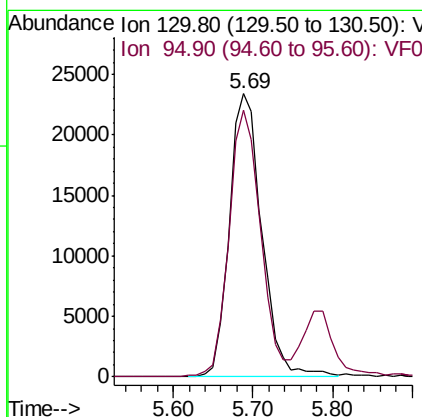
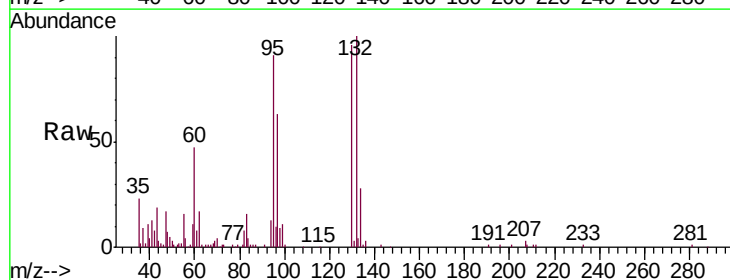
Manual Integrations
APPROVED

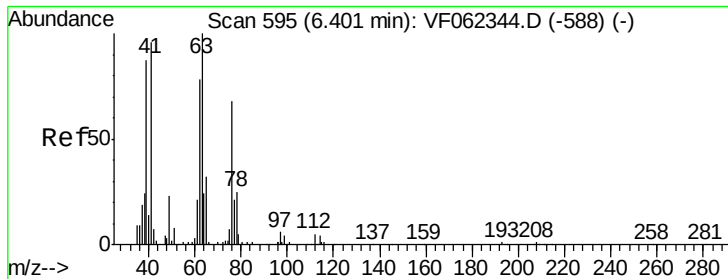
MMDadoda
5/12/2019 12:04:26 PM



#44
Trichloroethene
Concen: 23.183 ug/l
RT: 5.69 min Scan# 523
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	189.0





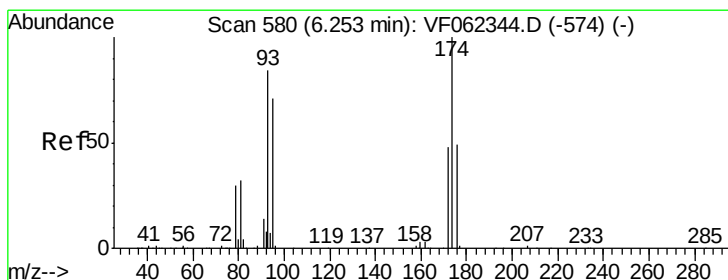
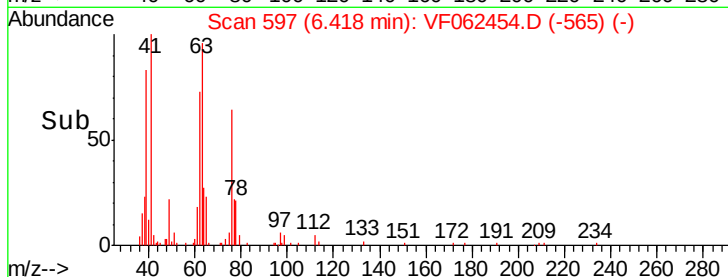
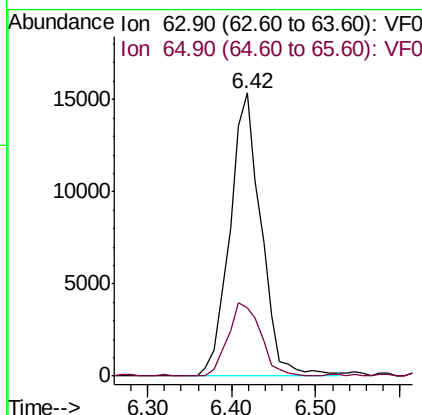
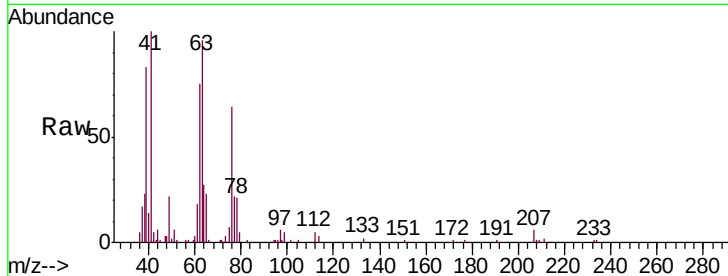
#45
1,2-Dichloropropane
Concen: 22.500 ug/l
RT: 6.42 min Scan# 597
Delta R.T. 0.02 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion: 63 Resp: 39801
Ion Ratio Lower Upper
63 100
65 24.2 25.6 38.4#

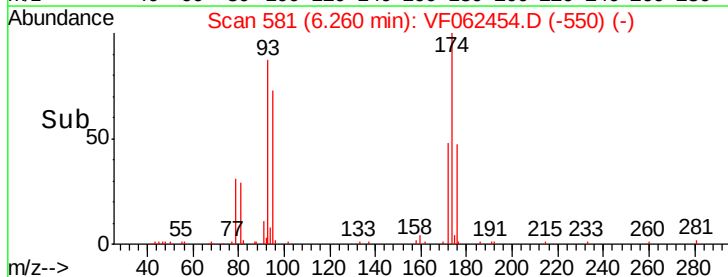
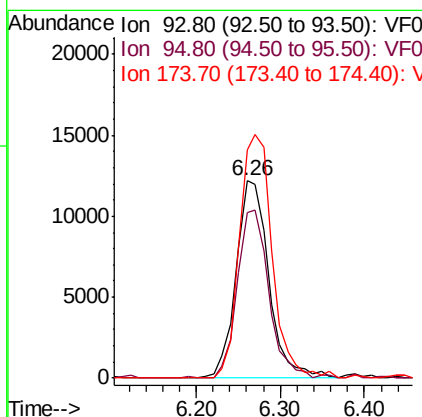
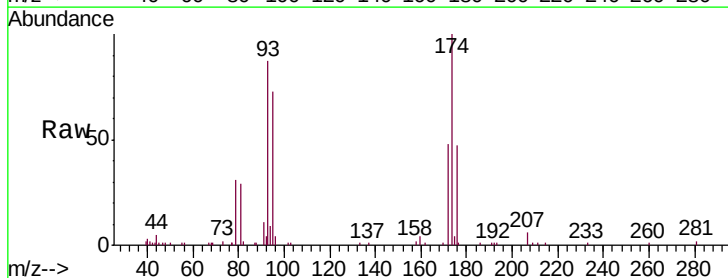
Manual Integrations
APPROVED

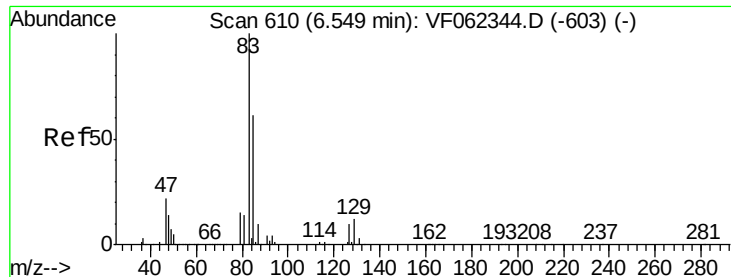
MMDadoda
5/12/2019 12:04:26 PM



#46
Dibromomethane
Concen: 22.550 ug/l
RT: 6.26 min Scan# 581
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion: 93 Resp: 33073
Ion Ratio Lower Upper
93 100
95 82.5 68.4 102.6
174 123.7 99.6 149.4





#47

Bromodichloromethane

Concen: 22.792 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

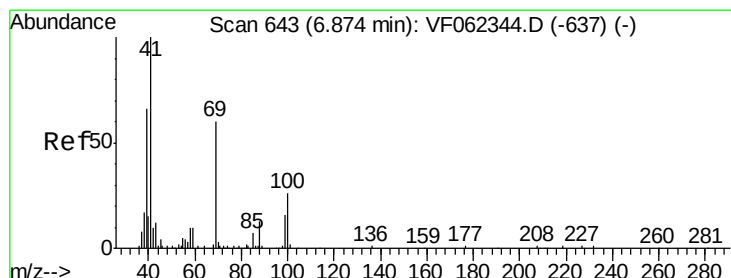
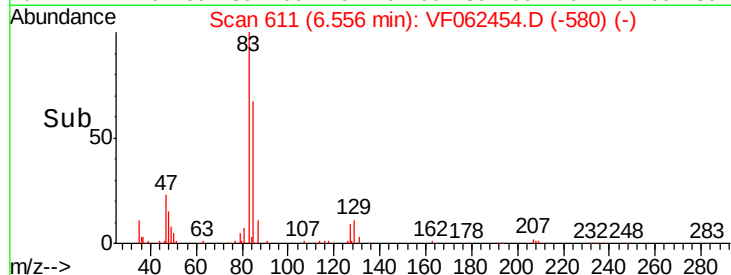
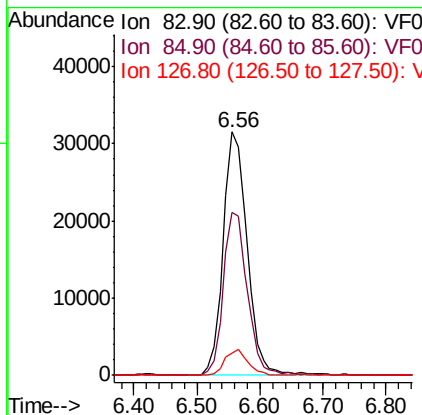
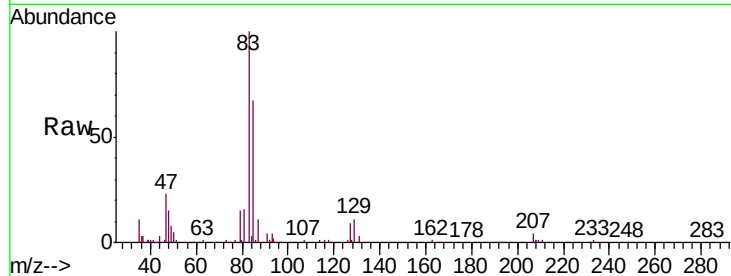
ClientSampleId :

VF0511SBS01

Tgt Ion:	83	Resp:	83574
Ion	Ratio	Lower	Upper
83	100		
85	67.2	49.1	73.7
127	9.0	7.8	11.8

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#48

Methyl methacrylate

Concen: 19.185 ug/l

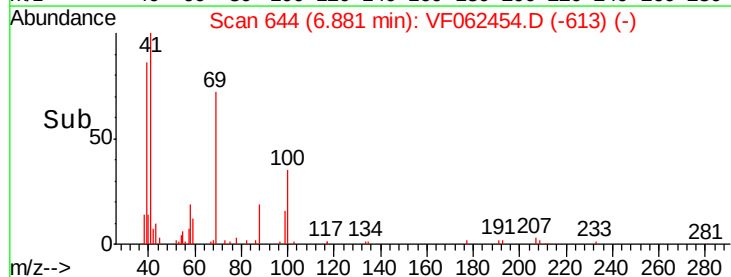
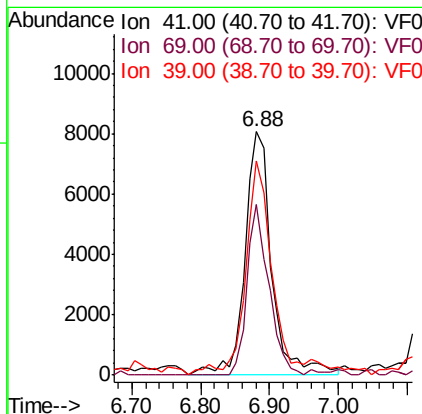
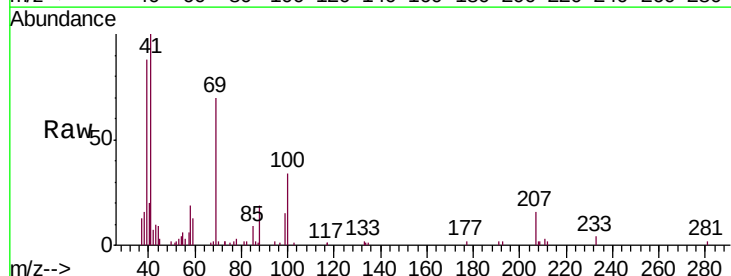
RT: 6.88 min Scan# 644

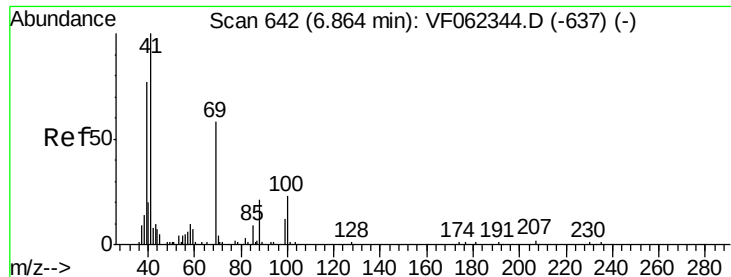
Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion:	41	Resp:	21870
Ion	Ratio	Lower	Upper
41	100		
69	56.6	48.6	72.8
39	76.8	56.1	84.1





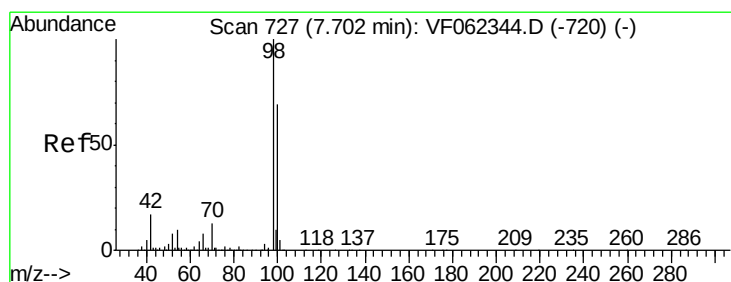
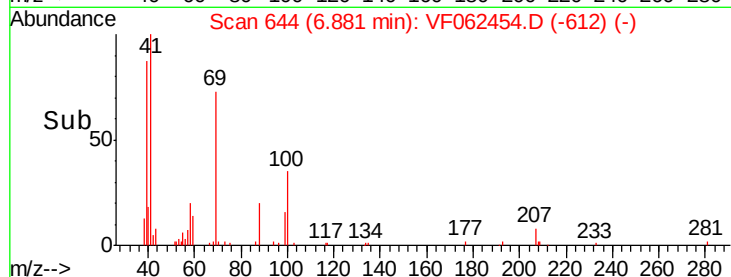
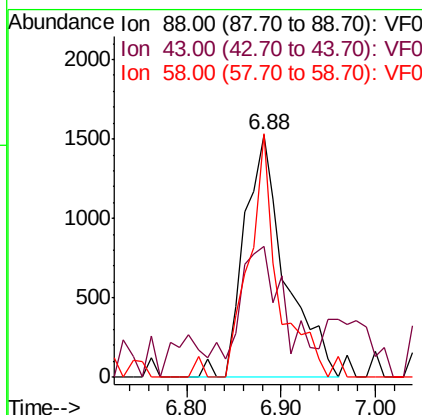
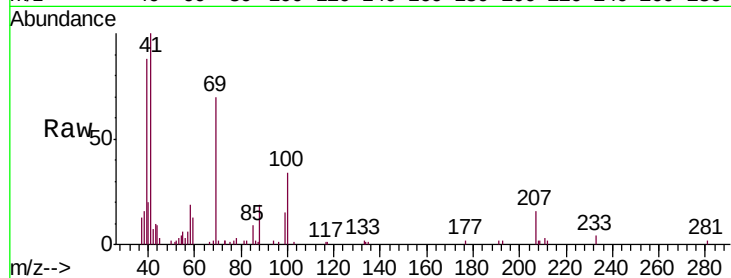
#49
1,4-Dioxane
Concen: 383.520 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.02 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	4591		
43	44.5	55.6	83.4#	
58	70.2	52.8	79.2	

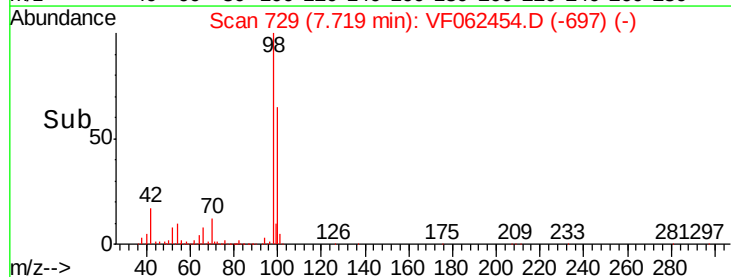
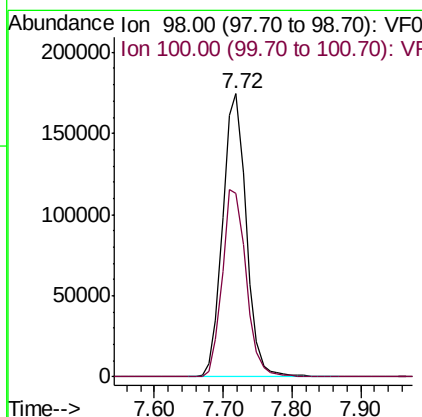
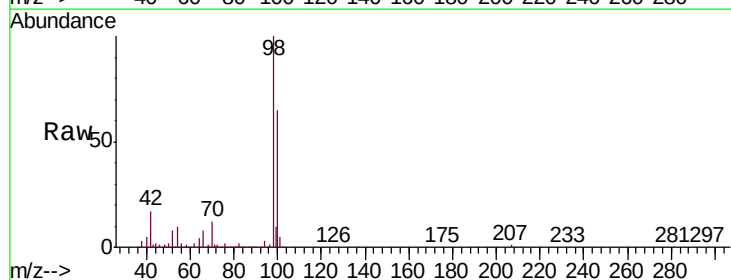
Manual Integrations
APPROVED

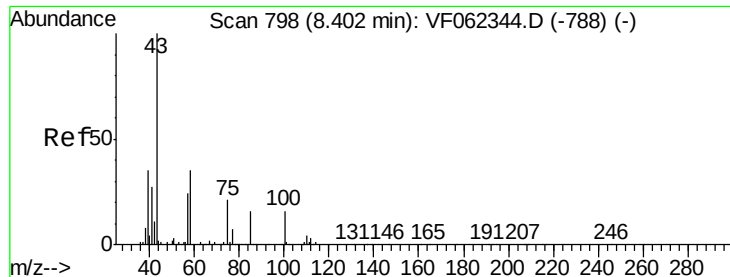
MMDadoda
5/12/2019 12:04:26 PM



#50
Toluene-d8
Concen: 52.281 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	416242		
100	67.2	53.3	79.9	





#51

4-Methyl-2-Pentanone

Concen: 101.354 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 43 Resp: 123888

Ion Ratio Lower Upper

43 100

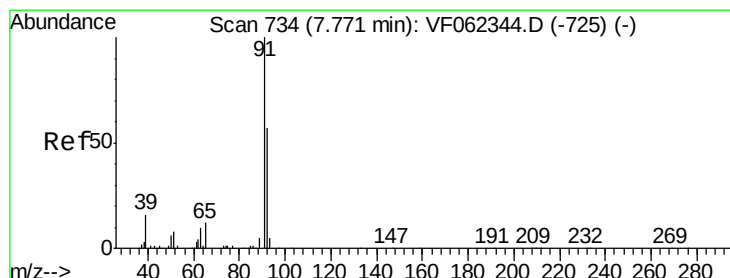
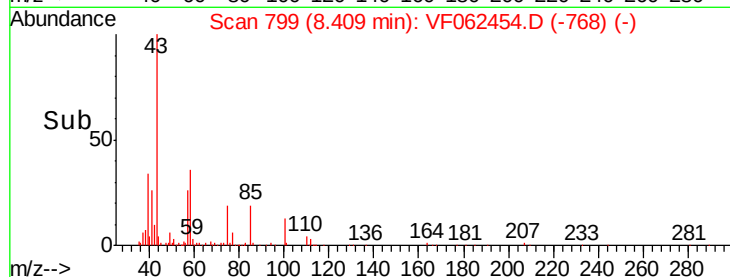
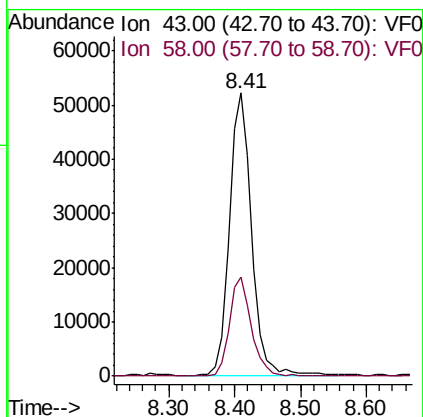
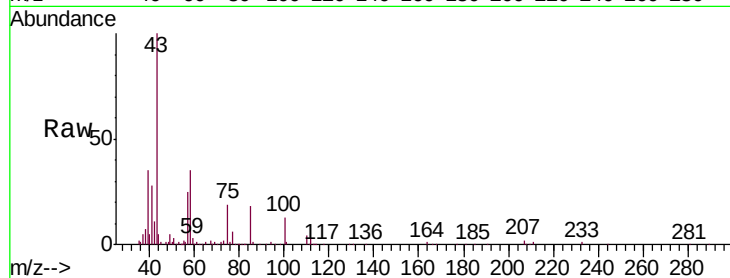
58 34.1 27.8 41.6

Manual Integrations

APPROVED

MMDadoda

5/12/2019 12:04:26 PM



#52

Toluene

Concen: 24.141 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF062454.D

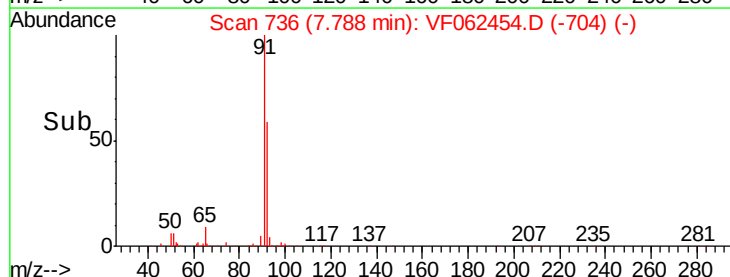
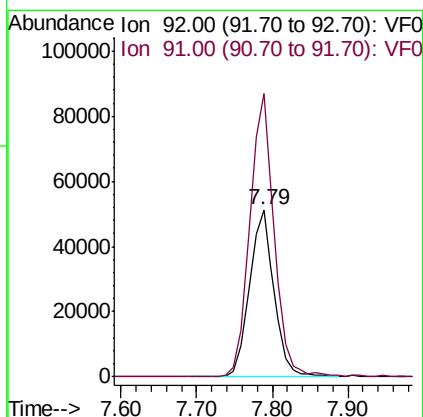
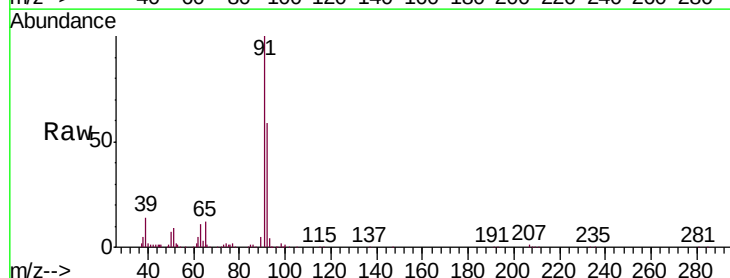
Acq: 11 May 2019 12:28

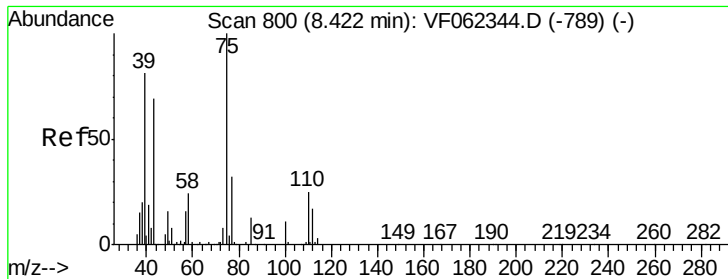
Tgt Ion: 92 Resp: 116305

Ion Ratio Lower Upper

92 100

91 167.7 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 22.159 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

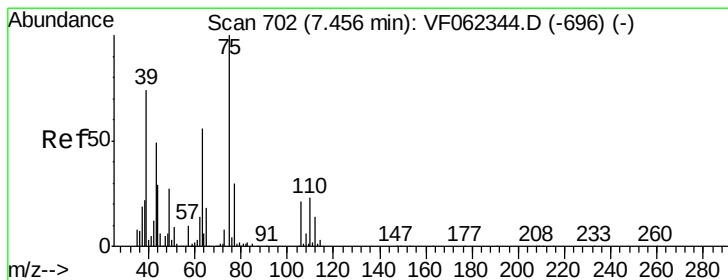
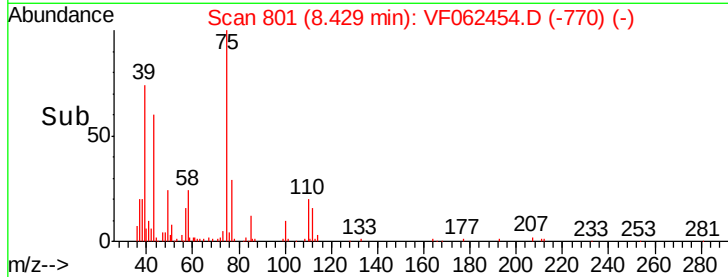
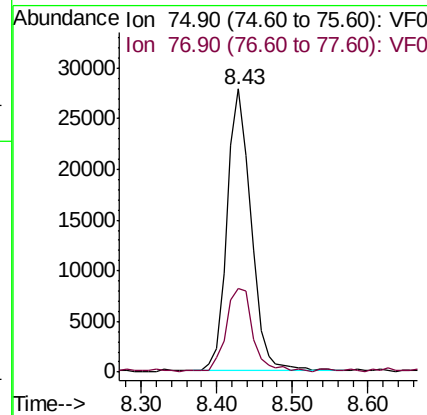
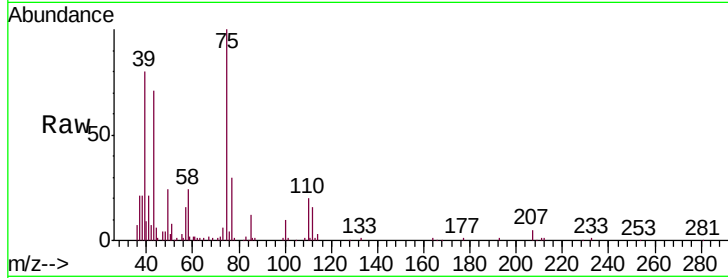
ClientSampleId :

VF0511SBS01

Tgt Ion: 75 Resp: 61455
 Ion Ratio Lower Upper
 75 100
 77 29.4 25.4 38.0

Manual Integrations
 APPROVED

MMDadoda
 5/12/2019 12:04:26 PM



#54

cis-1,3-Dichloropropene

Concen: 24.628 ug/l

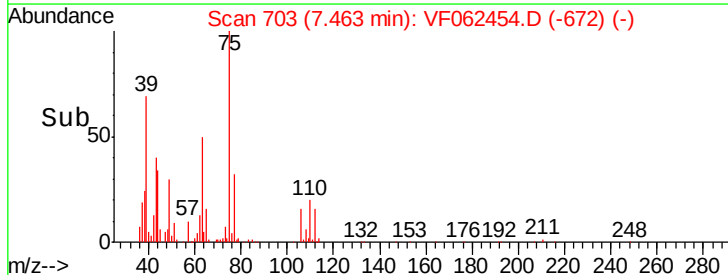
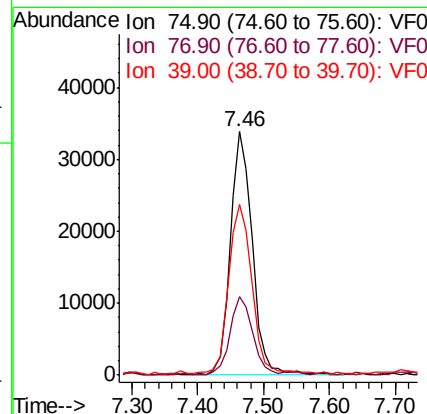
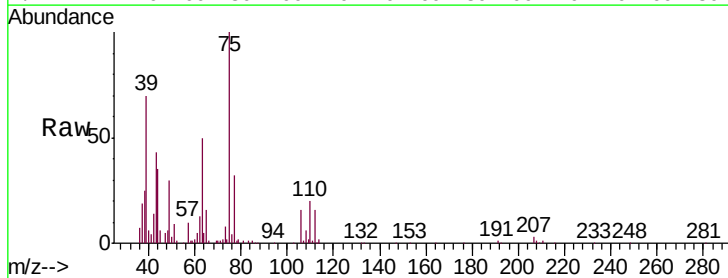
RT: 7.46 min Scan# 703

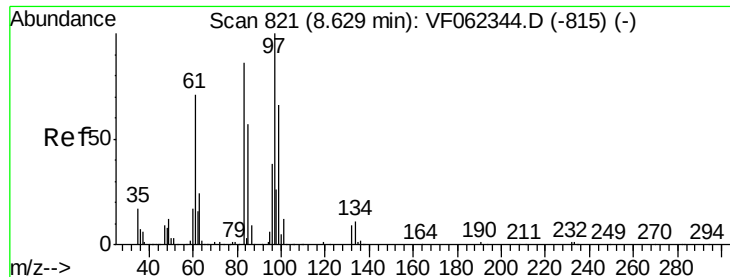
Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion: 75 Resp: 79491
 Ion Ratio Lower Upper
 75 100
 77 32.1 24.0 36.0
 39 69.4 58.7 88.1





#55

1,1,2-Trichloroethane

Concen: 21.370 ug/l

RT: 8.64 min Scan# 822

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

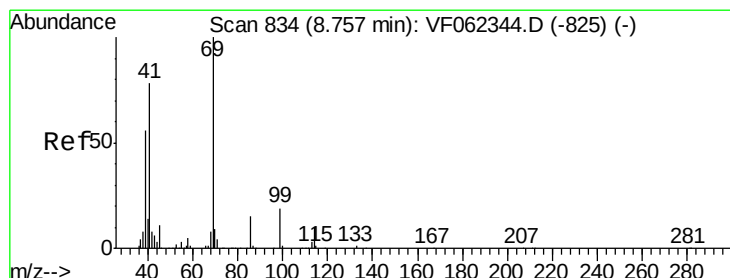
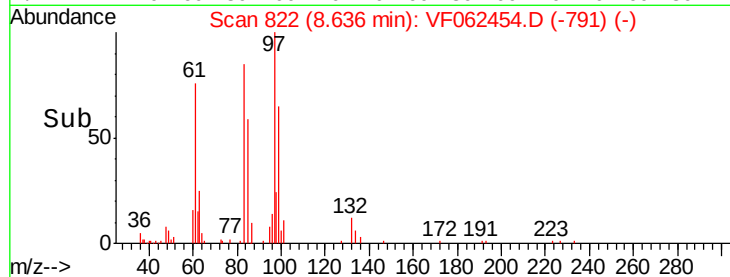
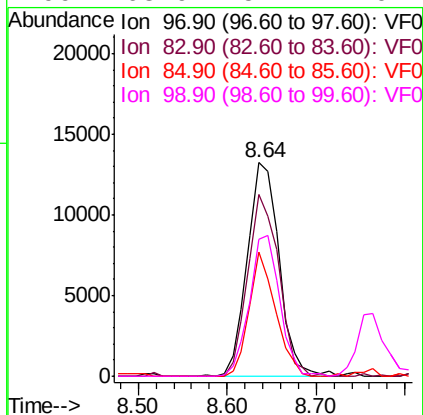
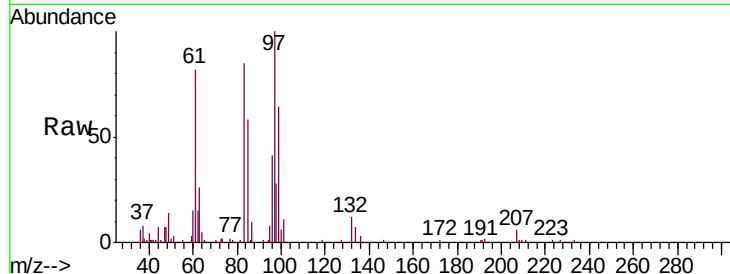
ClientSampleId :

VF0511SBS01

Tgt Ion:	97	Resp:	32683
Ion	Ratio	Lower	Upper
97	100		
83	85.0	68.5	102.7
85	58.1	45.4	68.2
99	63.9	52.7	79.1

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#56

Ethyl methacrylate

Concen: 19.481 ug/l

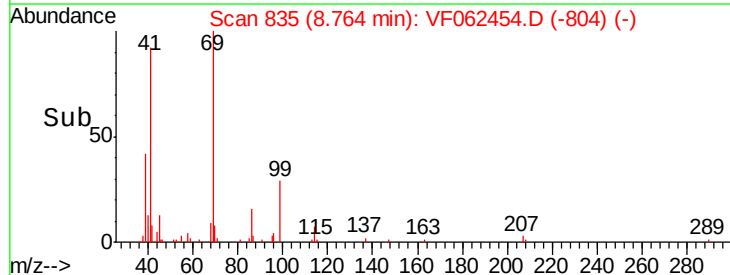
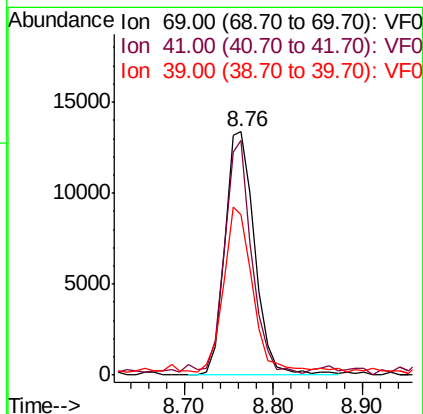
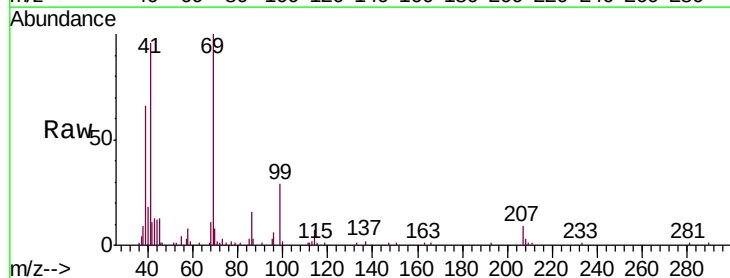
RT: 8.76 min Scan# 835

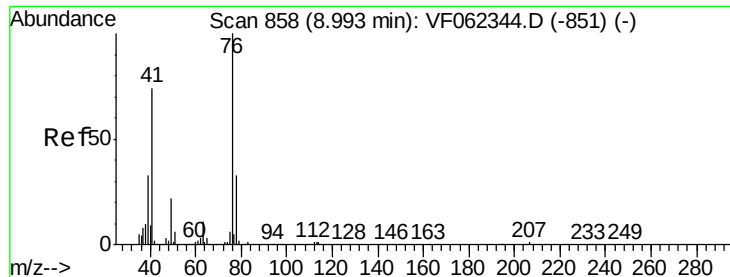
Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion:	69	Resp:	31451
Ion	Ratio	Lower	Upper
69	100		
41	88.5	66.3	99.5
39	64.7	50.1	75.1





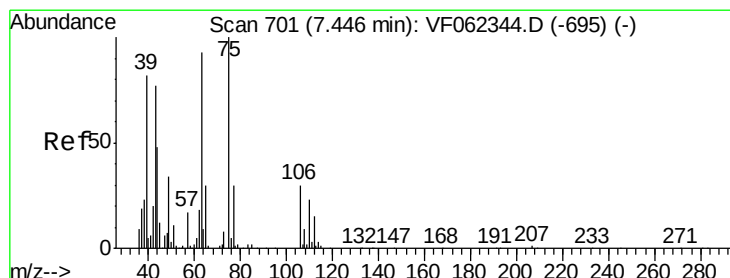
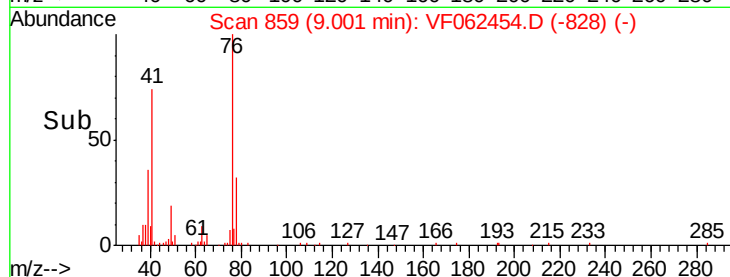
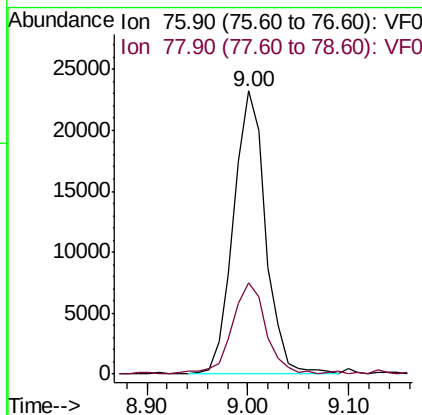
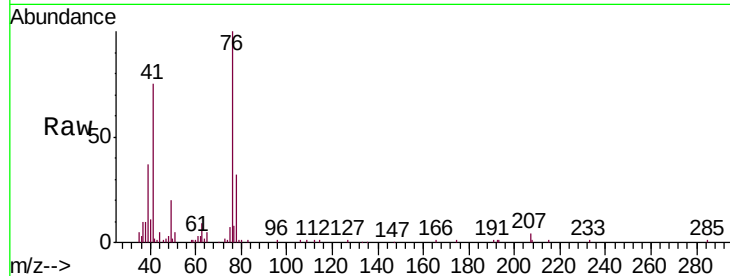
#57
 1,3-Dichloropropane
 Concen: 22.282 ug/l
 RT: 9.00 min Scan# 859
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion: 76 Resp: 51476
 Ion Ratio Lower Upper
 76 100
 78 34.1 26.4 39.6

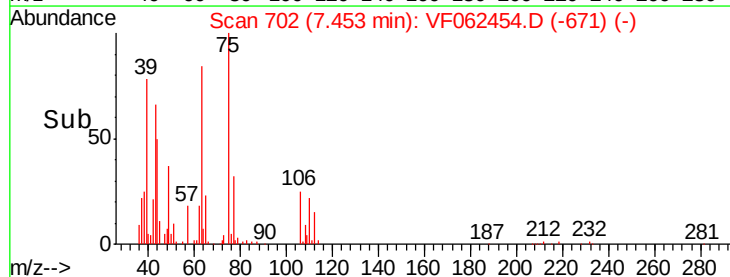
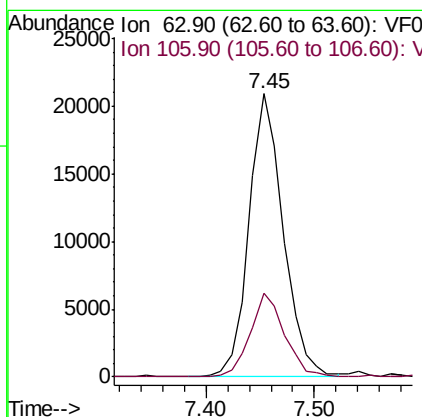
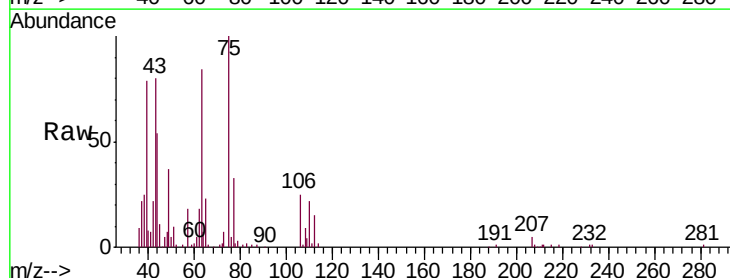
Manual Integrations
 APPROVED

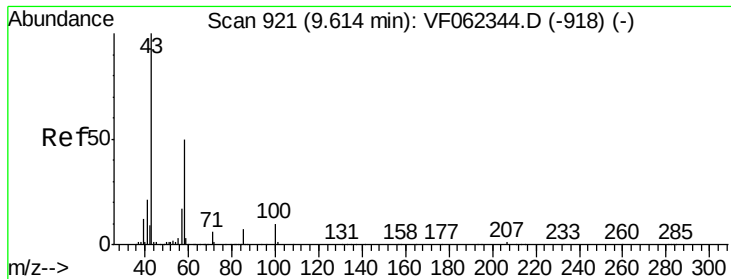
MMDadoda
 5/12/2019 12:04:26 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 94.895 ug/l
 RT: 7.45 min Scan# 702
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Tgt Ion: 63 Resp: 46060
 Ion Ratio Lower Upper
 63 100
 106 29.5 25.8 38.8





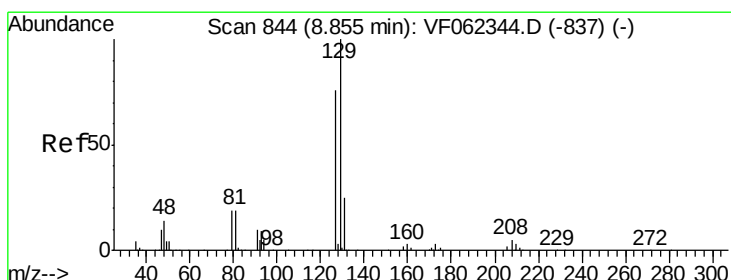
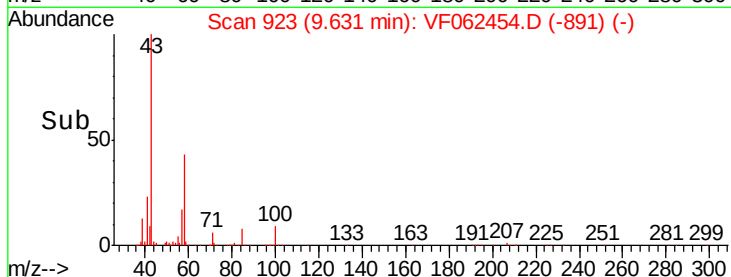
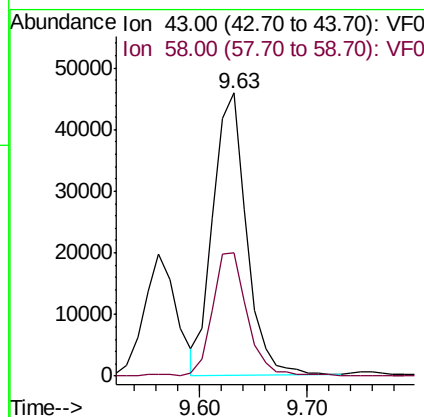
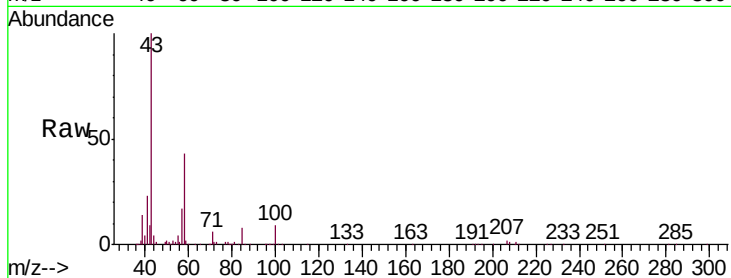
#59
2-Hexanone
Concen: 116.419 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion: 43 Resp: 98417
Ion Ratio Lower Upper
43 100
58 45.5 24.3 73.0

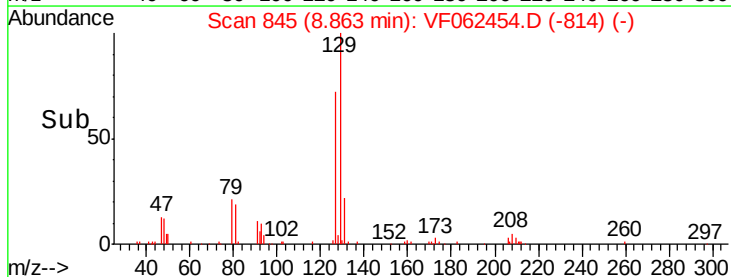
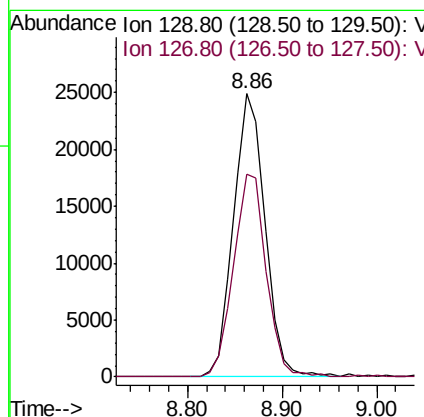
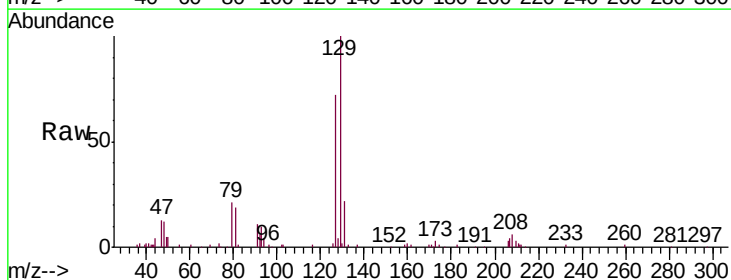
Manual Integrations
APPROVED

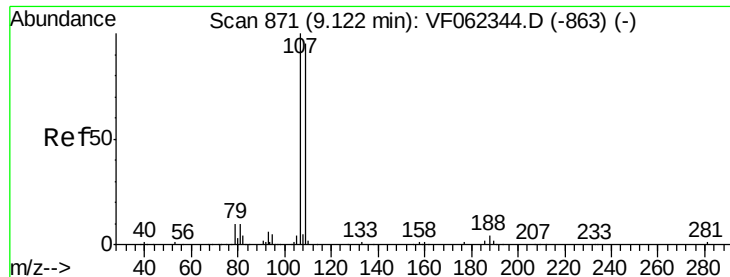
MMDadoda
5/12/2019 12:04:26 PM



#60
Dibromochloromethane
Concen: 22.891 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion: 129 Resp: 57259
Ion Ratio Lower Upper
129 100
127 74.4 38.5 115.3





#61

1,2-Dibromoethane

Concen: 21.369 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.02 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 107 Resp: 38412

Ion Ratio Lower Upper

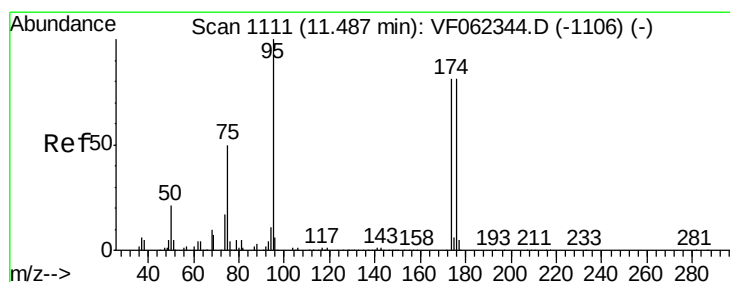
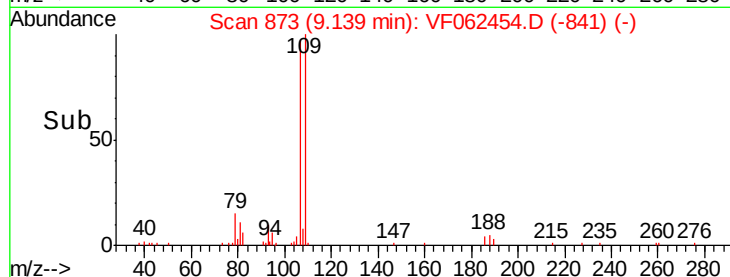
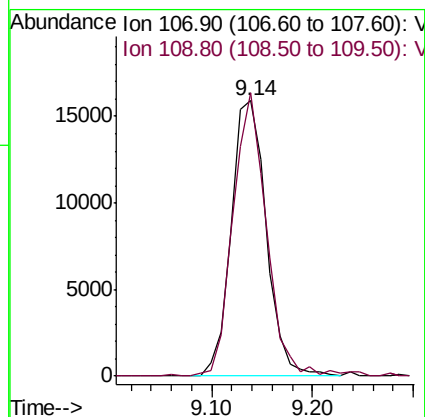
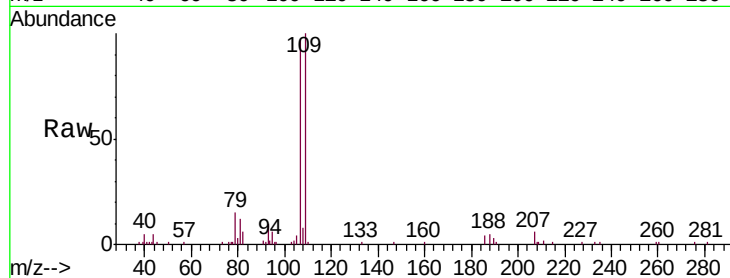
107 100

109 98.2 75.2 112.8

Manual Integrations
APPROVED

MMDadoda

5/12/2019 12:04:26 PM



#62

4-Bromofluorobenzene

Concen: 53.297 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

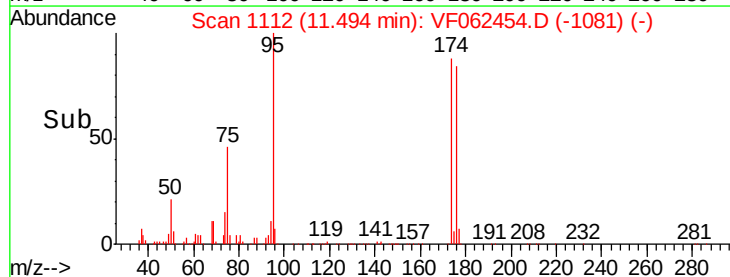
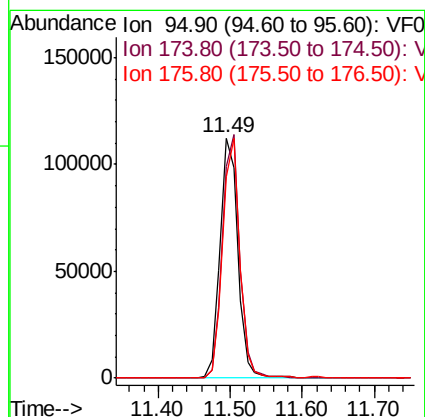
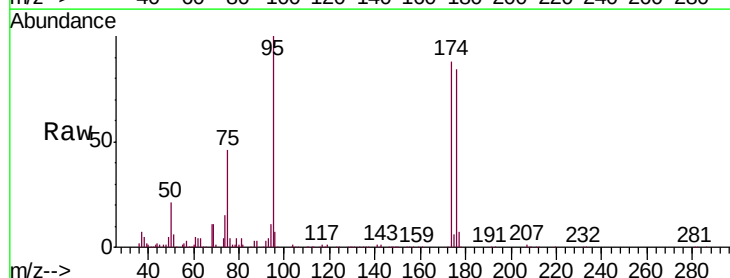
Tgt Ion: 95 Resp: 191444

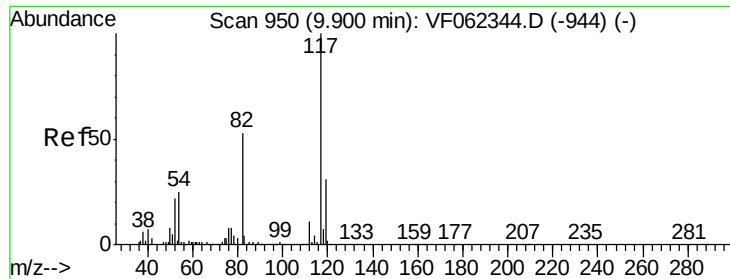
Ion Ratio Lower Upper

95 100

174 99.2 0.0 191.8

176 96.2 0.0 193.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

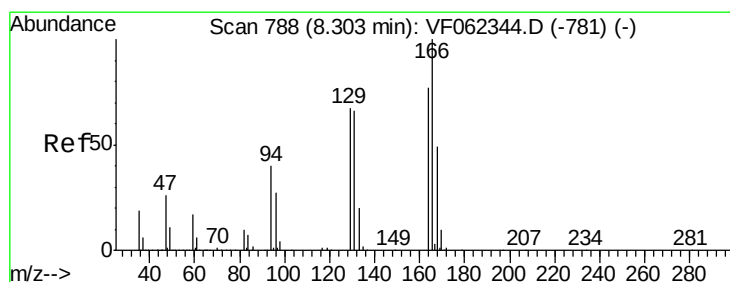
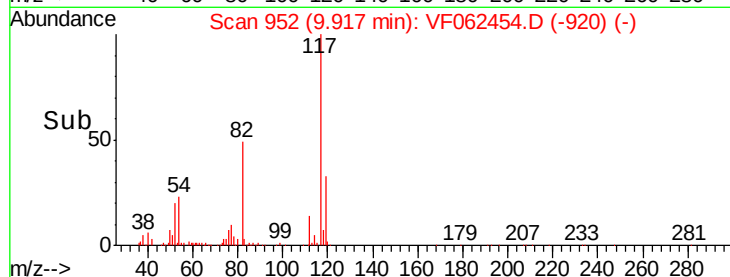
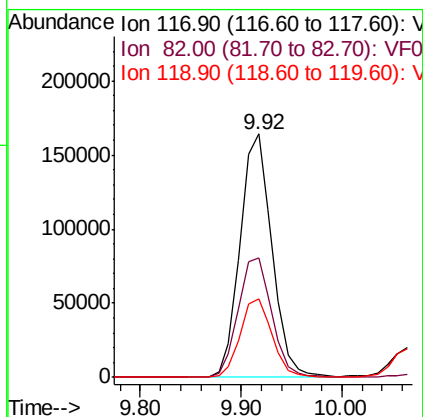
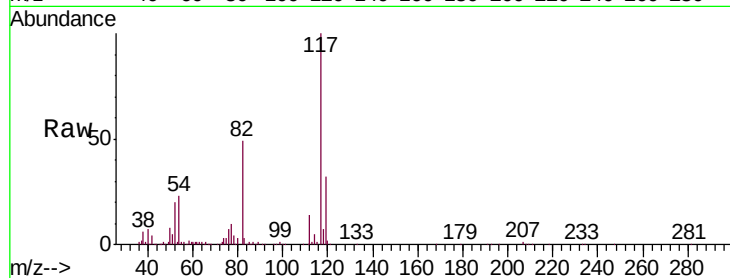
ClientSampleId :

VF0511SBS01

Tgt Ion:	117	Resp:	361697
Ion Ratio		Lower	Upper
117	100		
82	49.3	42.2	63.2
119	32.5	25.0	37.4

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#64

Tetrachloroethene

Concen: 22.600 ug/l

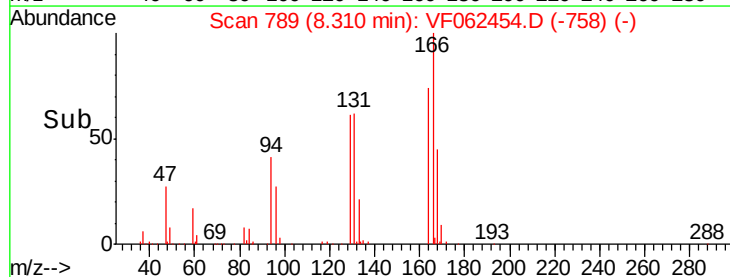
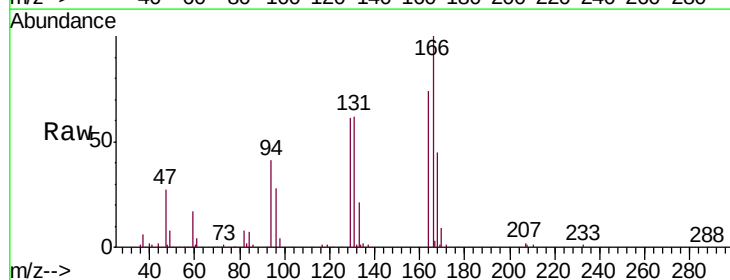
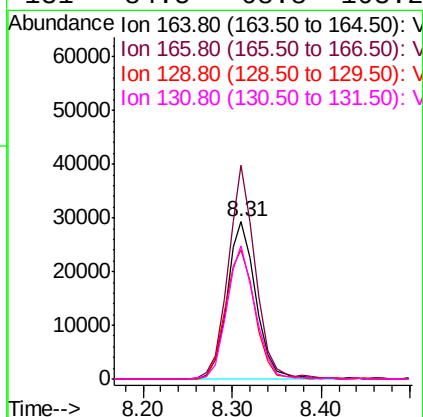
RT: 8.31 min Scan# 789

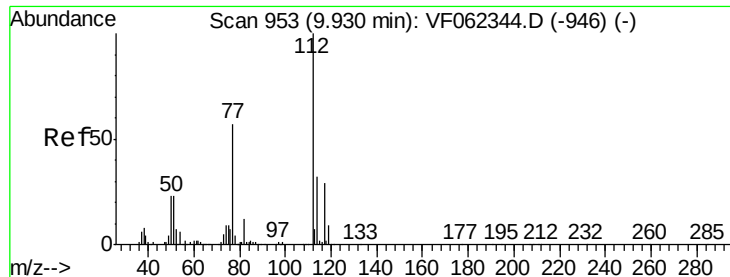
Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion:	164	Resp:	66361
Ion Ratio		Lower	Upper
164	100		
166	135.8	104.2	156.4
129	82.3	69.6	104.4
131	84.5	68.8	103.2





#65

Chlorobenzene

Concen: 23.316 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion:112 Resp: 139535

Ion Ratio Lower Upper

112 100

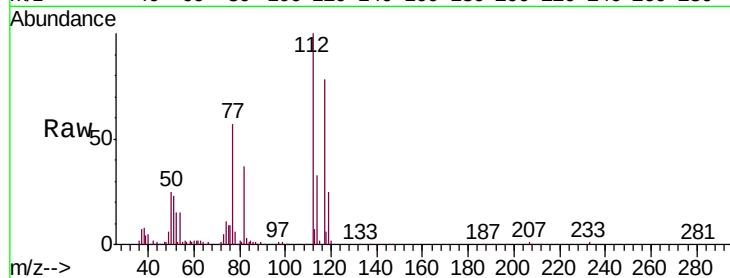
114 33.1 25.4 38.0

Manual Integrations

APPROVED

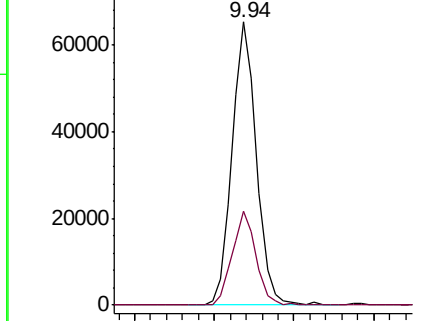
MMDadoda

5/12/2019 12:04:26 PM

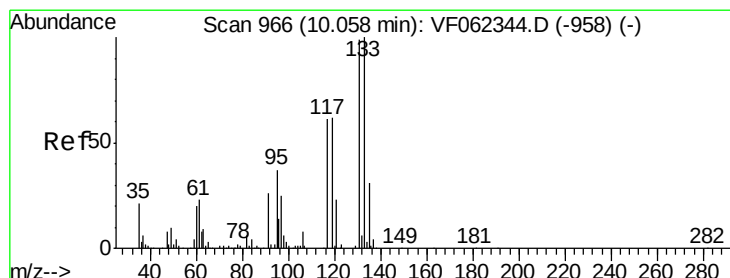
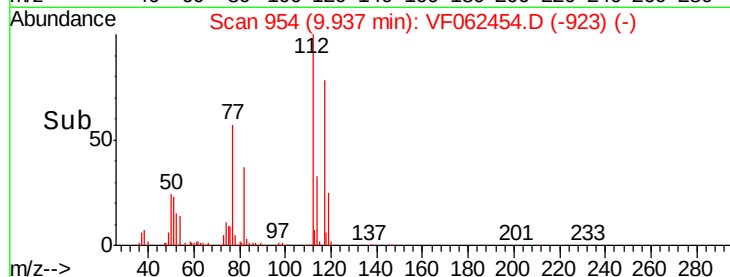


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 23.120 ug/l

RT: 10.07 min Scan# 967

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

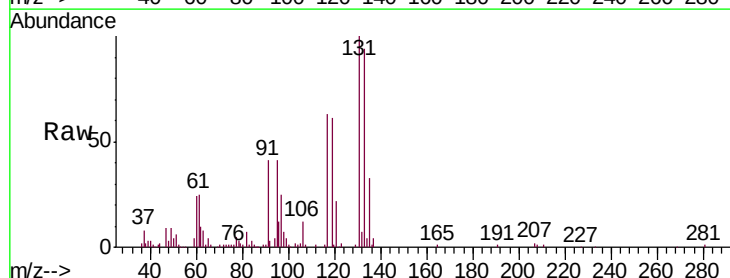
Tgt Ion:131 Resp: 69799

Ion Ratio Lower Upper

131 100

133 97.6 50.2 150.7

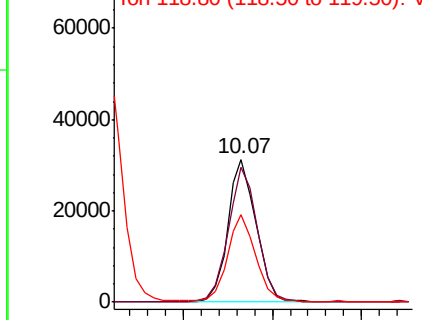
119 60.8 31.6 95.0



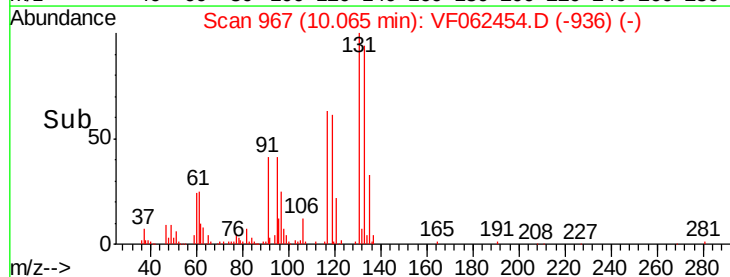
Abundance Ion 130.80 (130.50 to 131.50): V

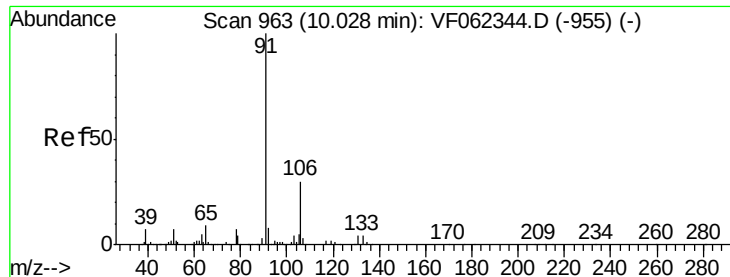
Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



Time-->





#67

Ethyl Benzene

Concen: 23.492 ug/l

RT: 10.04 min Scan# 964

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 91 Resp: 246177

Ion Ratio Lower Upper

91 100

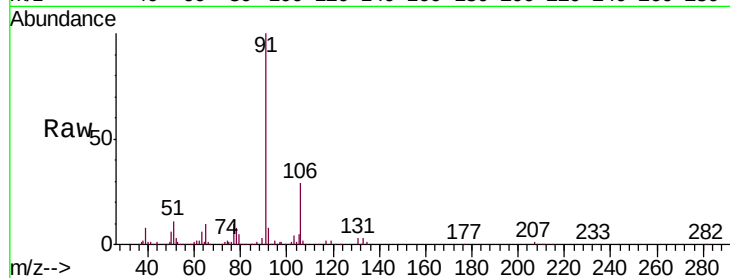
106 29.2 24.1 36.1

Manual Integrations

APPROVED

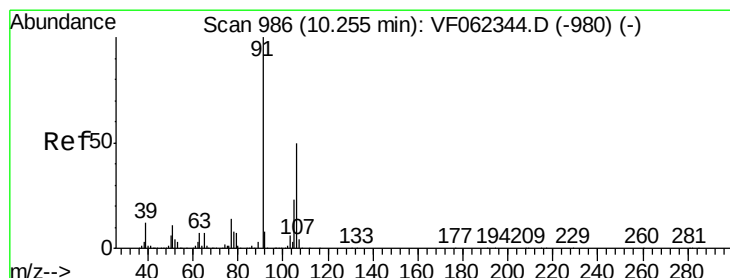
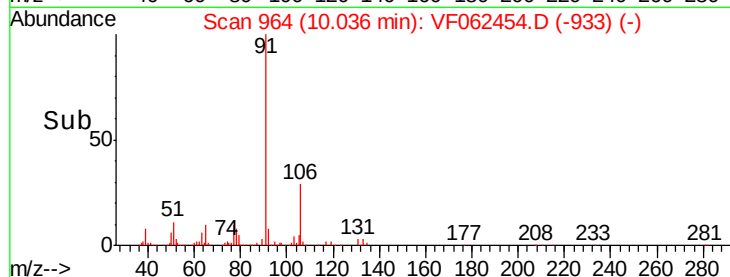
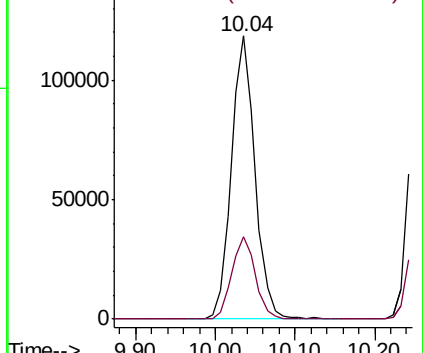
MMDadoda

5/12/2019 12:04:26 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 47.617 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.01 min

Lab File: VF062454.D

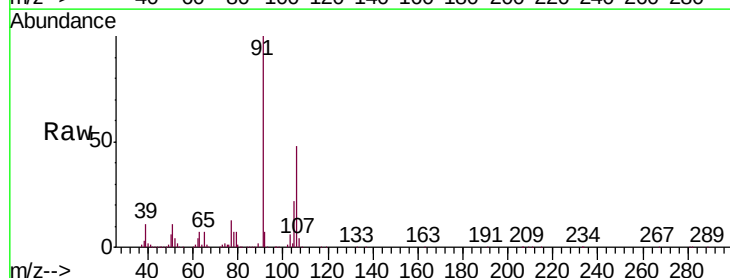
Acq: 11 May 2019 12:28

Tgt Ion: 106 Resp: 184111

Ion Ratio Lower Upper

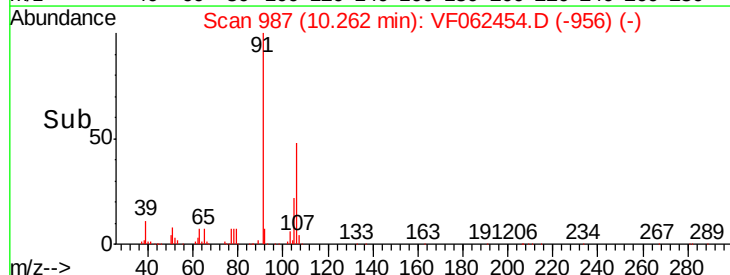
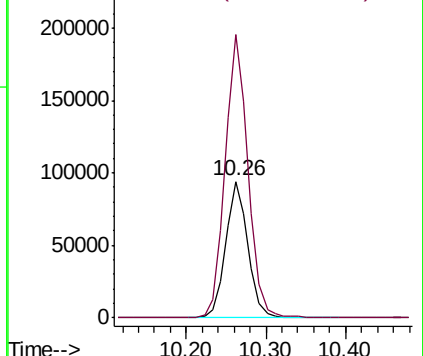
106 100

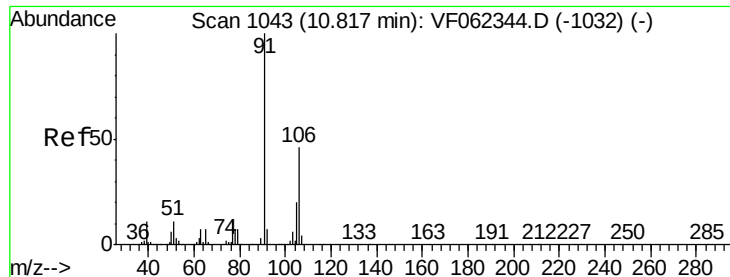
91 213.5 167.4 251.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





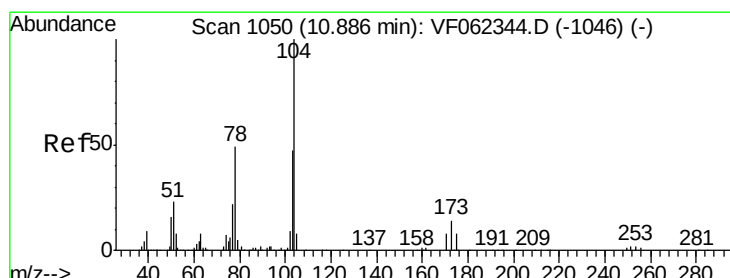
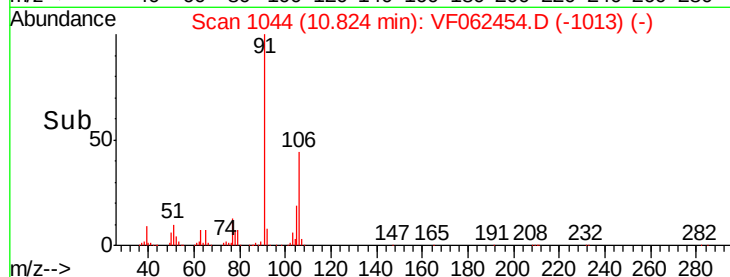
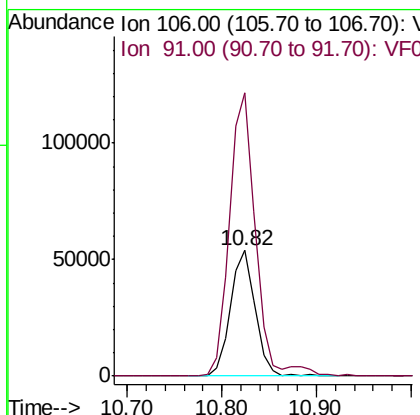
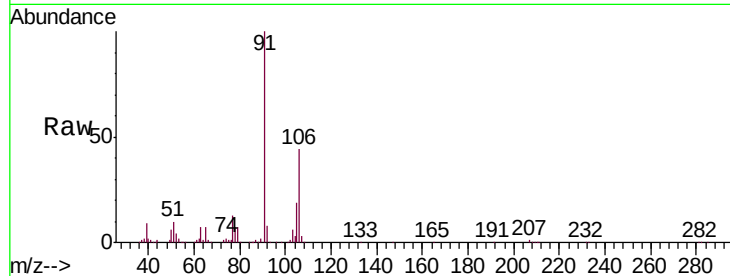
#69
o-Xylene
Concen: 23.504 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampled :
VF0511SBS01

Tgt Ion:106 Resp: 98202
Ion Ratio Lower Upper
106 100
91 228.0 111.3 333.8

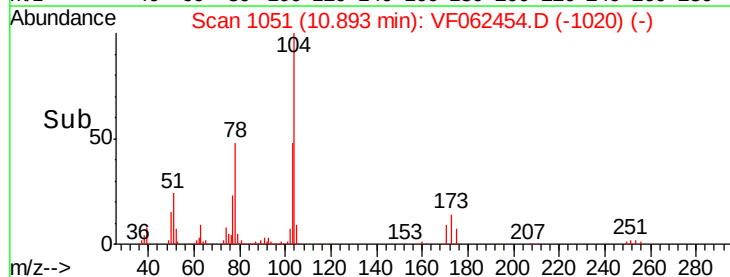
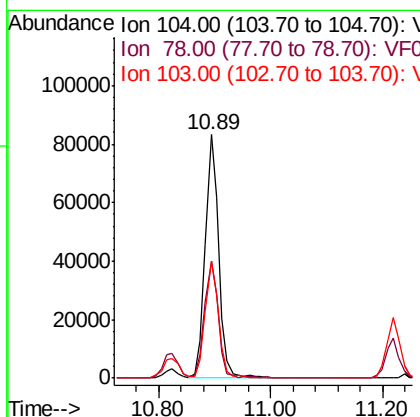
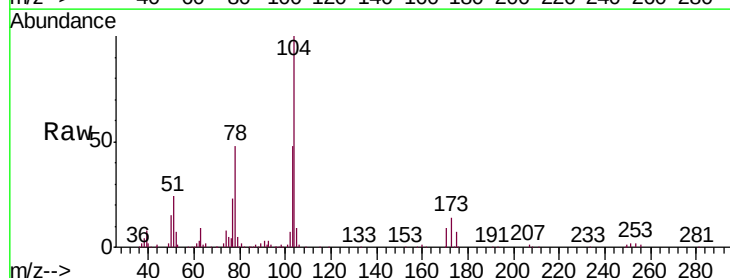
Manual Integrations
APPROVED

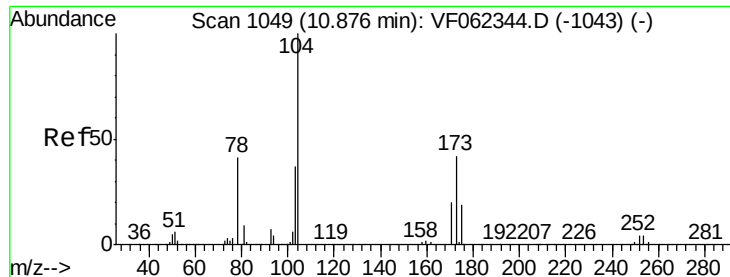
MMDadoda
5/12/2019 12:04:26 PM



#70
Styrene
Concen: 22.545 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion:104 Resp: 141168
Ion Ratio Lower Upper
104 100
78 48.6 39.5 59.3
103 47.4 38.4 57.6





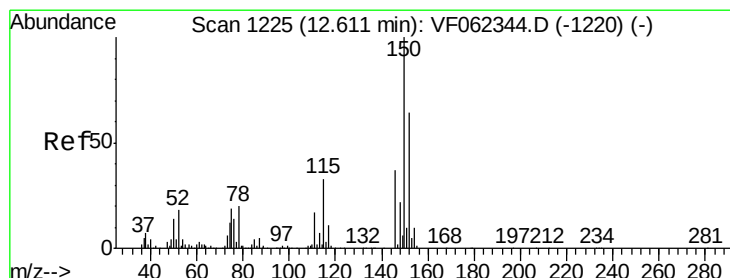
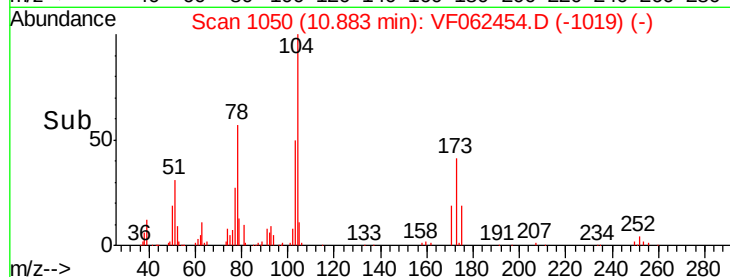
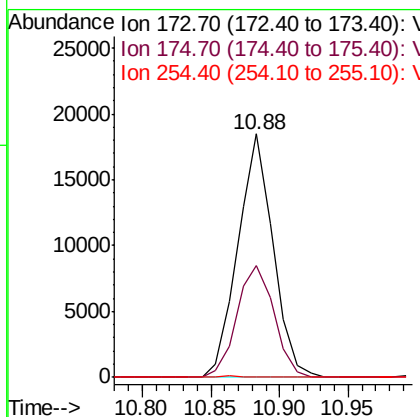
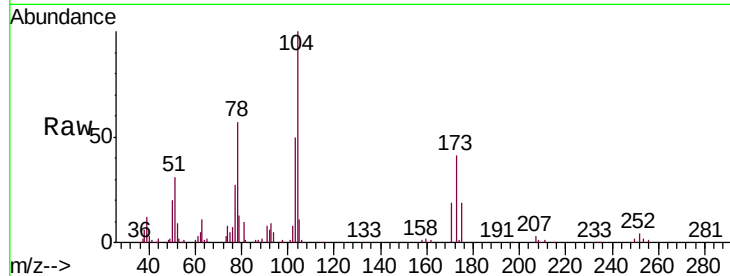
#71
Bromoform
Concen: 19.844 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	32822		
175	48.7	23.8	71.2	
254	0.3	0.1	0.1#	

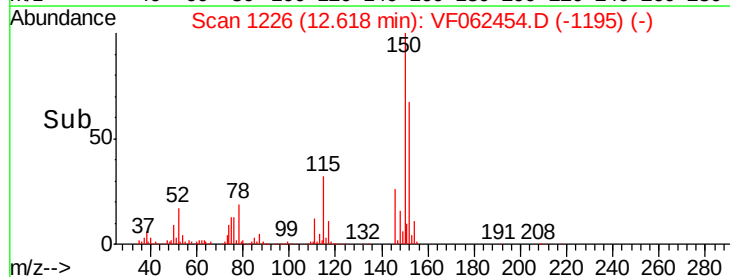
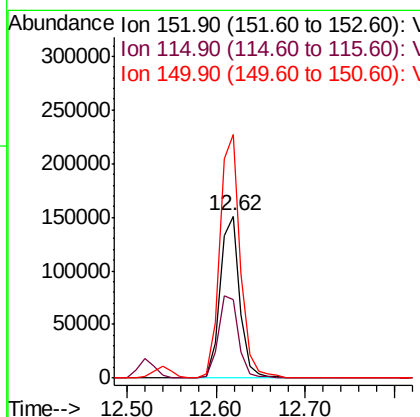
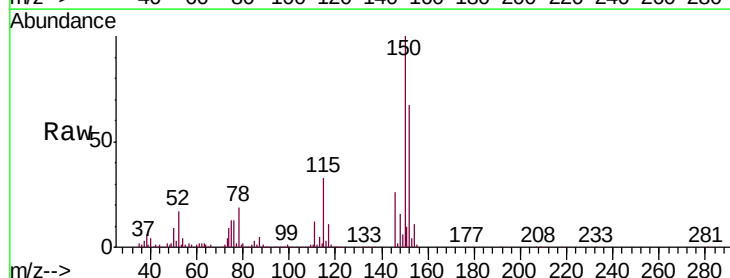
Manual Integrations
APPROVED

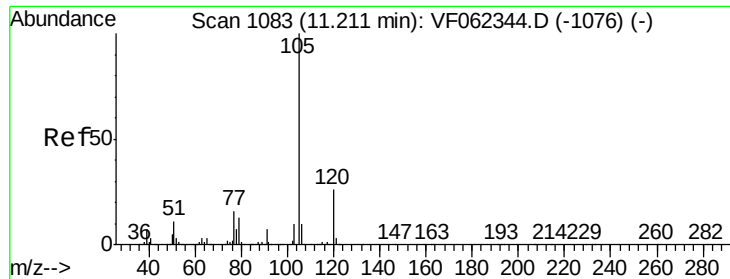
MMDadoda
5/12/2019 12:04:26 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	235034		
115	52.9	26.4	79.2	
150	156.1	0.0	335.0	





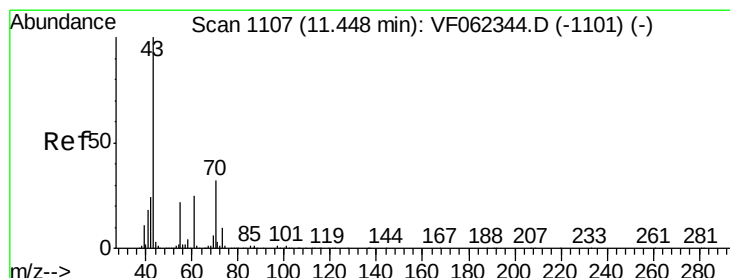
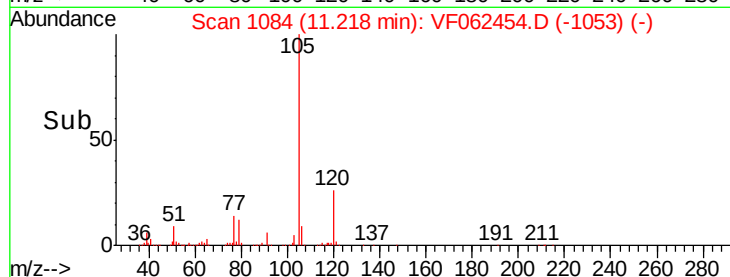
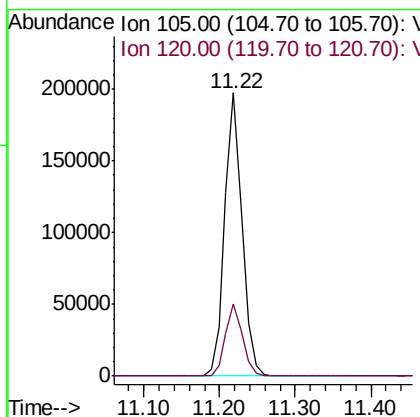
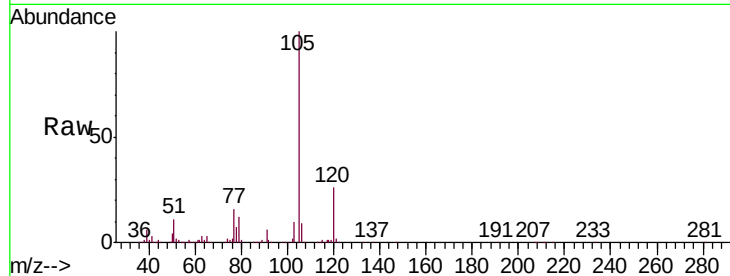
#73
Isopropylbenzene
Concen: 22.595 ug/l
RT: 11.22 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion: 105 Resp: 314834
Ion Ratio Lower Upper
105 100
120 25.3 12.7 38.0

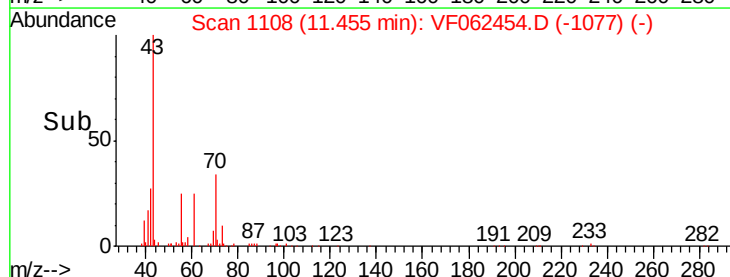
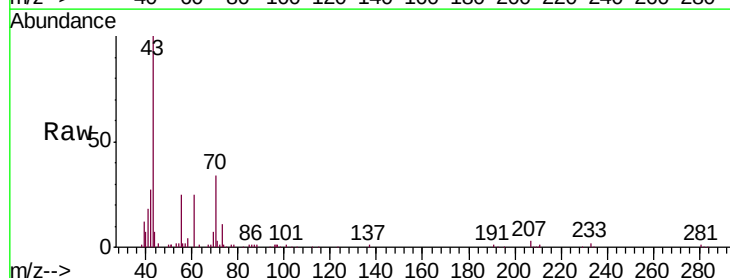
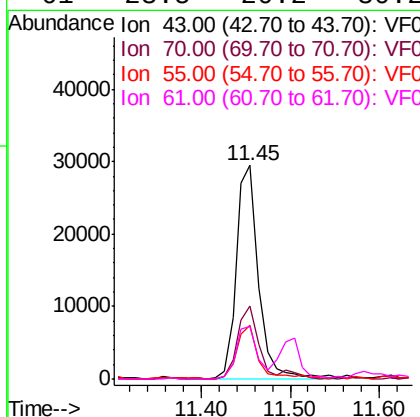
Manual Integrations
APPROVED

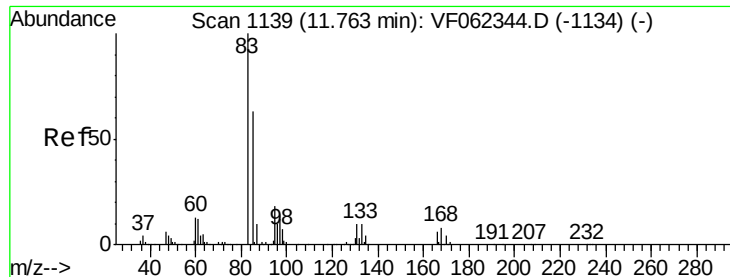
MMDadoda
5/12/2019 12:04:26 PM



#74
N-ethyl acetate
Concen: 17.305 ug/l
RT: 11.45 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion: 43 Resp: 51767
Ion Ratio Lower Upper
43 100
70 31.7 26.5 39.7
55 24.5 17.8 26.6
61 23.5 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 19.797 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

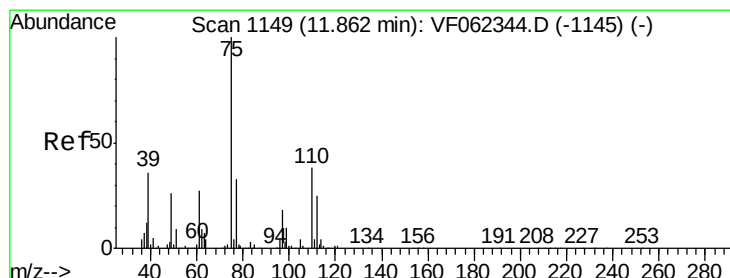
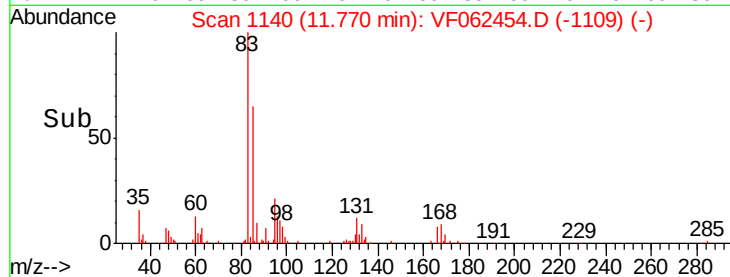
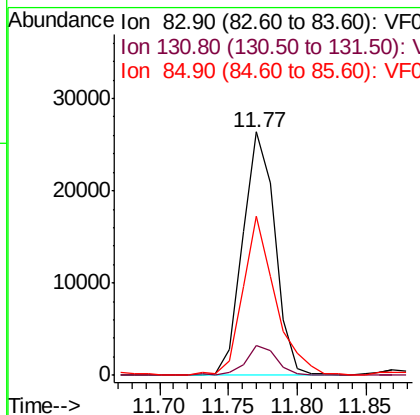
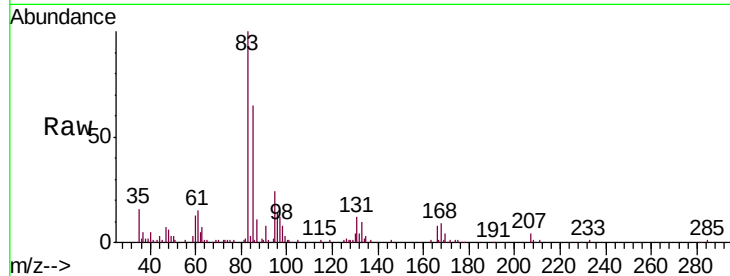
ClientSampleId :

VF0511SBS01

Tgt Ion:	83	Resp:	43190
Ion Ratio	Lower	Upper	
83	100		
131	11.8	5.8	17.4
85	65.9	35.3	105.7

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#76

1,2,3-Trichloropropane

Concen: 20.261 ug/l

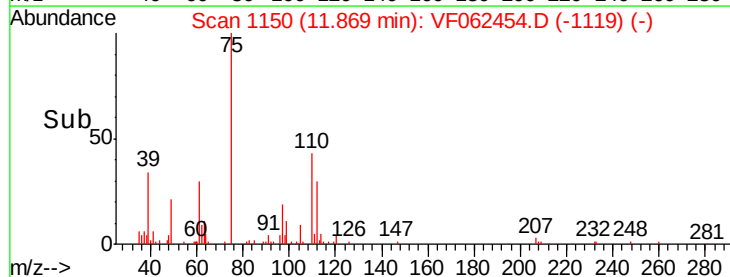
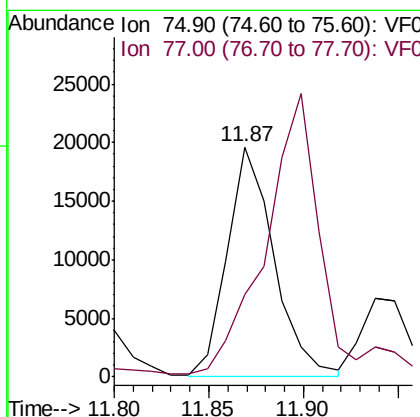
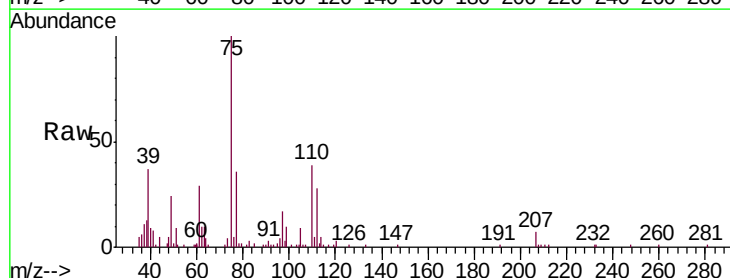
RT: 11.87 min Scan# 1150

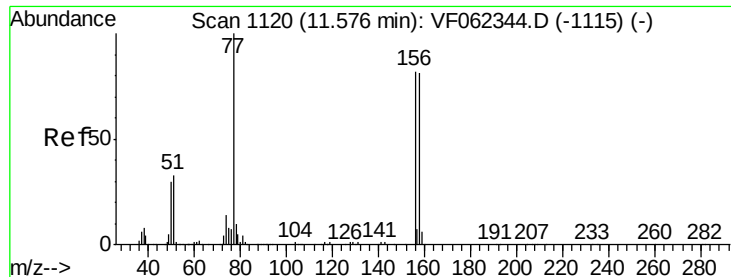
Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion:	75	Resp:	33724
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.901 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

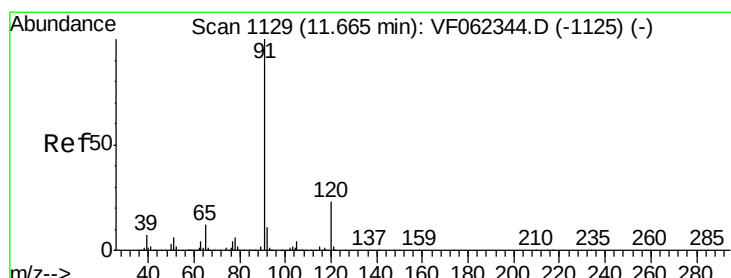
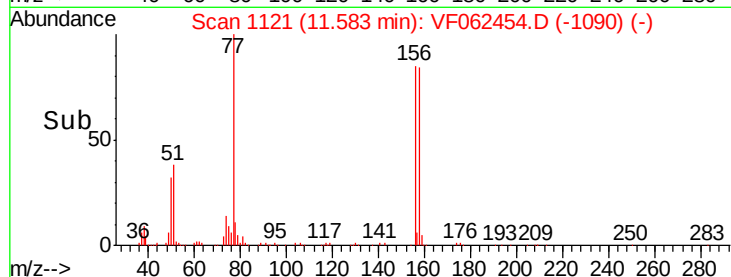
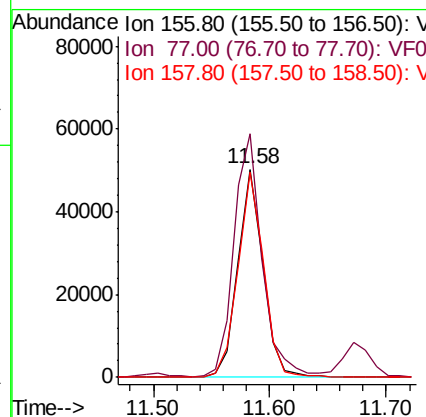
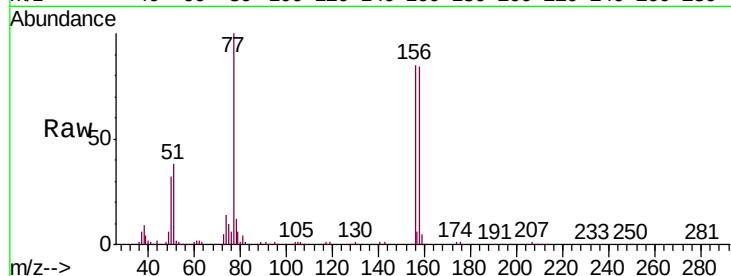
ClientSampleId :

VF0511SBS01

Tgt Ion:	156	Resp:	76432
Ion Ratio	Lower	Upper	
156	100		
77	127.7	64.8	194.3
158	99.9	49.1	147.3

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#78

n-propylbenzene

Concen: 21.669 ug/l

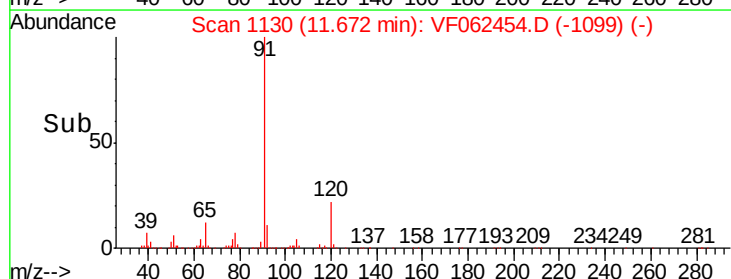
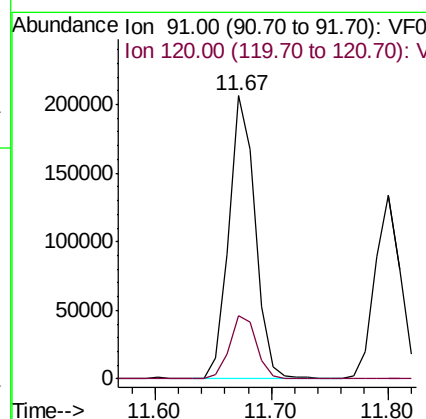
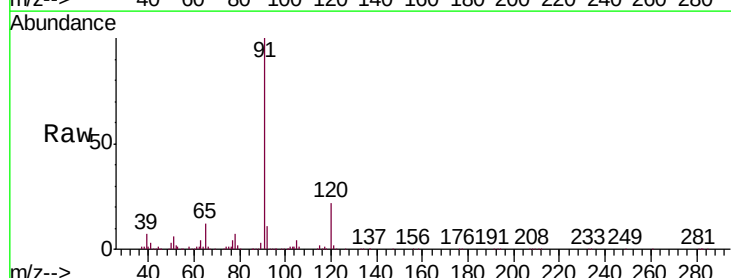
RT: 11.67 min Scan# 1130

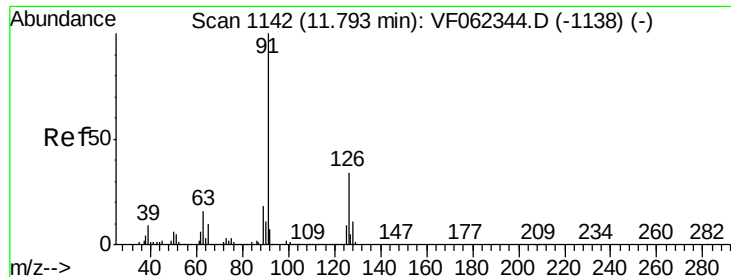
Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion:	91	Resp:	321449
Ion Ratio	Lower	Upper	
91	100		
120	23.2	11.9	35.5





#79

2-Chlorotoluene

Concen: 22.100 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 91 Resp: 203856

Ion Ratio Lower Upper

91 100

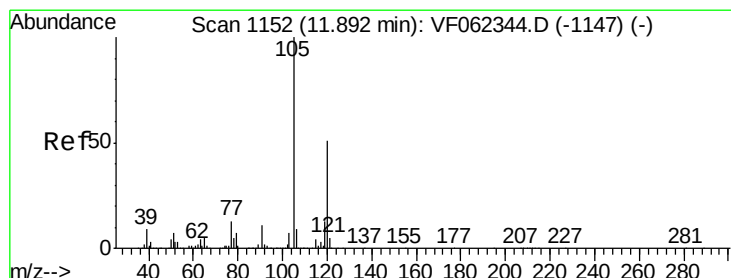
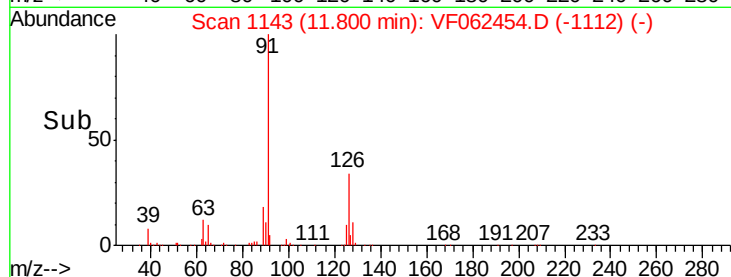
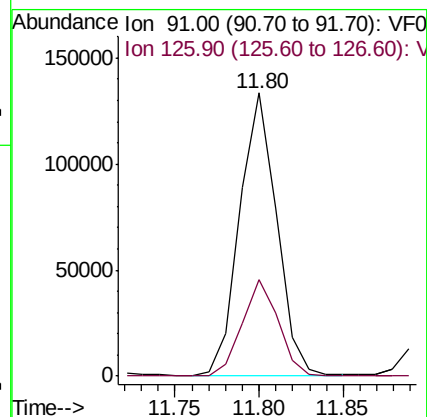
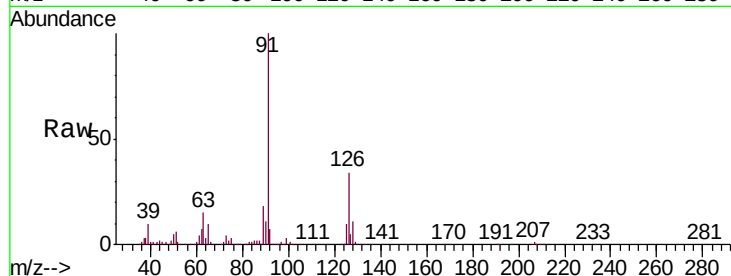
126 33.5 17.8 53.4

Manual Integrations

APPROVED

MMDadoda

5/12/2019 12:04:26 PM



#80

1,3,5-Trimethylbenzene

Concen: 22.806 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062454.D

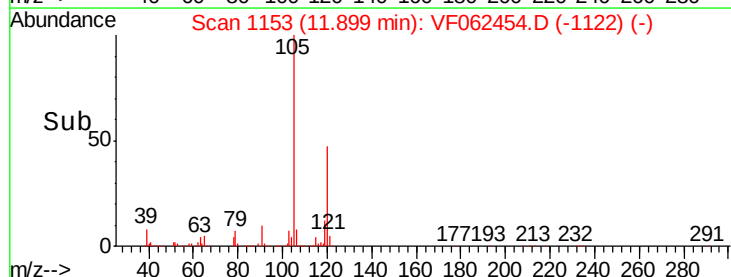
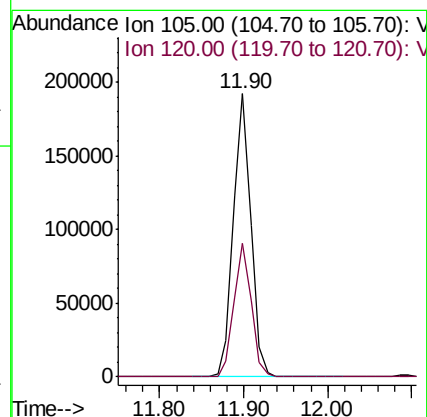
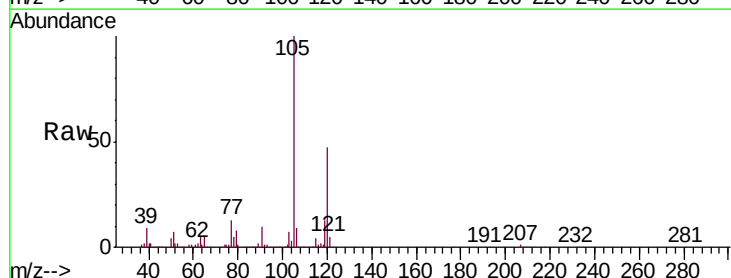
Acq: 11 May 2019 12:28

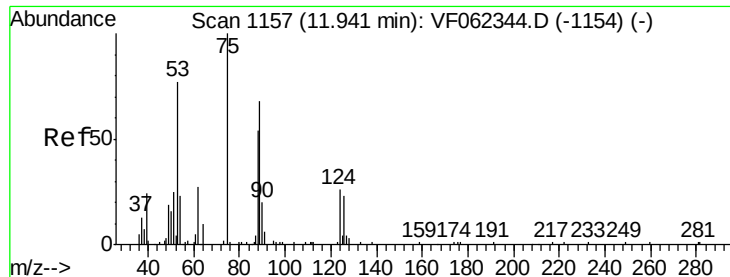
Tgt Ion: 105 Resp: 278531

Ion Ratio Lower Upper

105 100

120 47.1 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 17.674 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

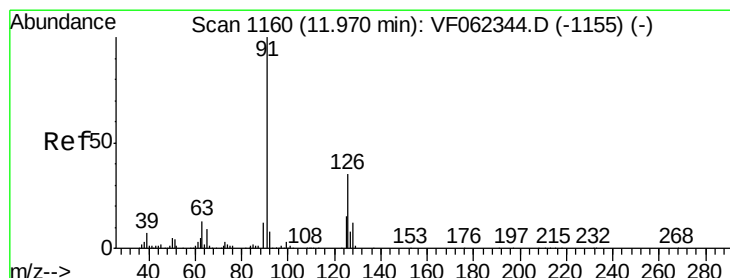
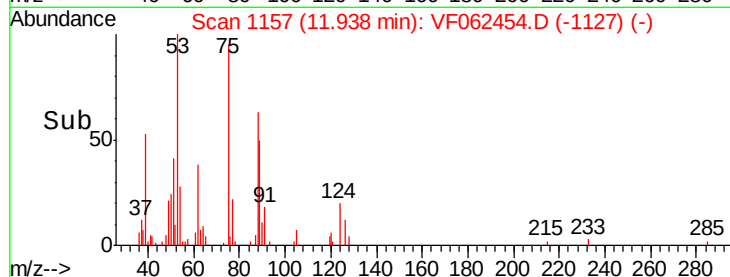
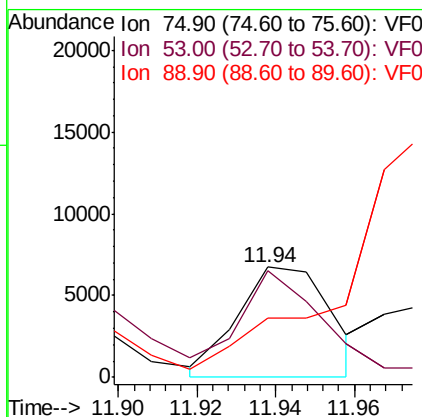
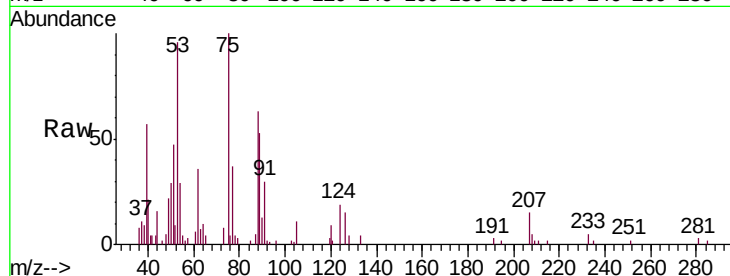
ClientSampleId :

VF0511SBS01

Tgt Ion:	75	Resp:	11058
Ion Ratio	Lower	Upper	
75	100		
53	93.4	71.9	107.9
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#82

4-Chlorotoluene

Concen: 22.599 ug/l

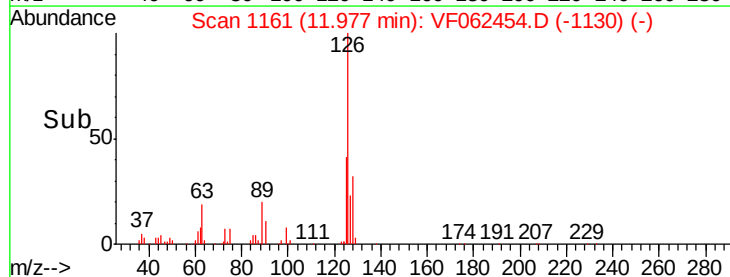
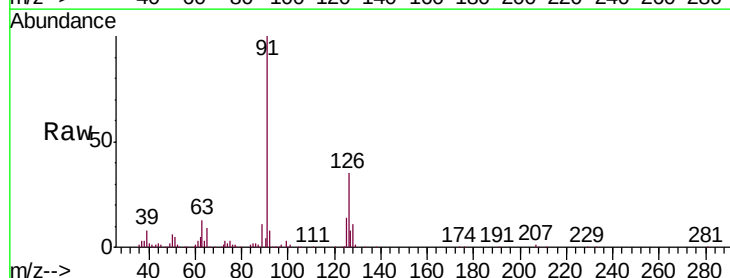
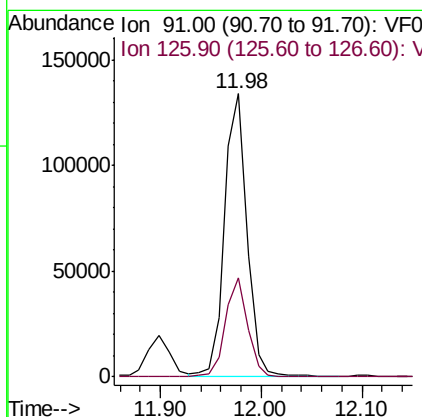
RT: 11.98 min Scan# 1161

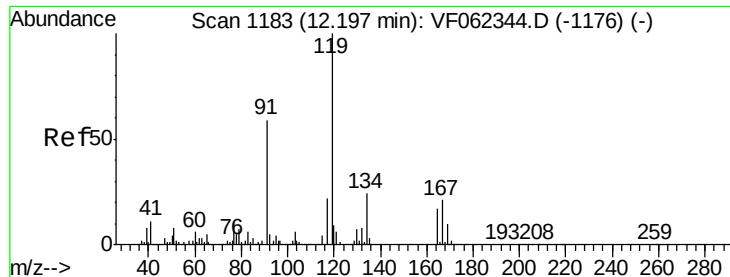
Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Tgt Ion:	91	Resp:	205897
Ion Ratio	Lower	Upper	
91	100		
126	35.5	17.7	53.1





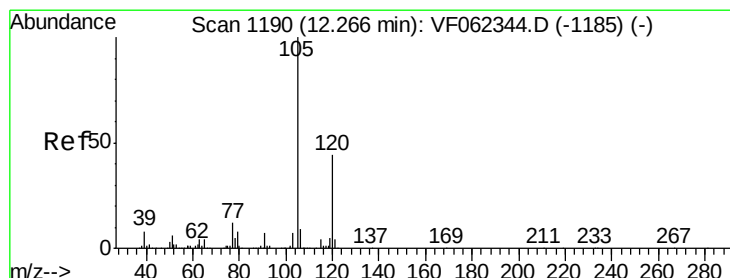
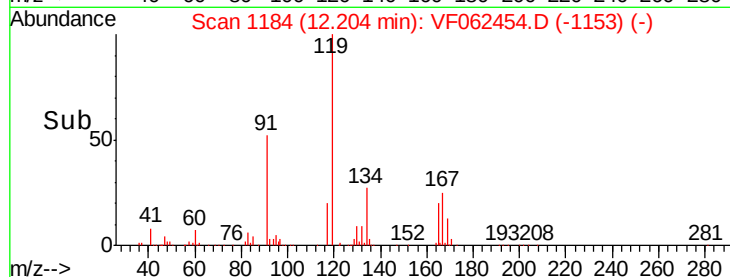
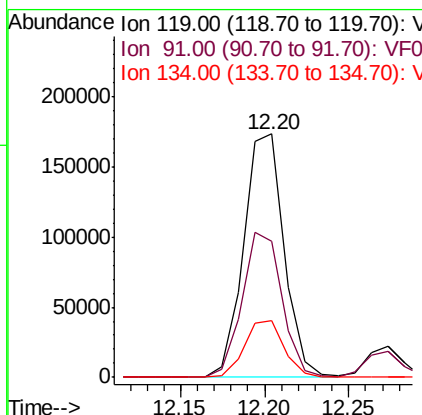
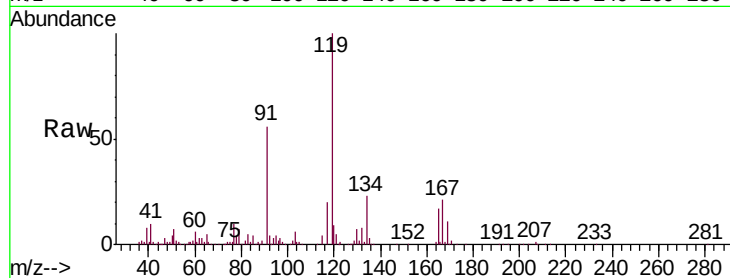
#83
 tert-Butylbenzene
 Concen: 22.493 ug/l
 RT: 12.20 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	288701		
91	58.4	30.4	91.3	
134	23.1	11.9	35.7	

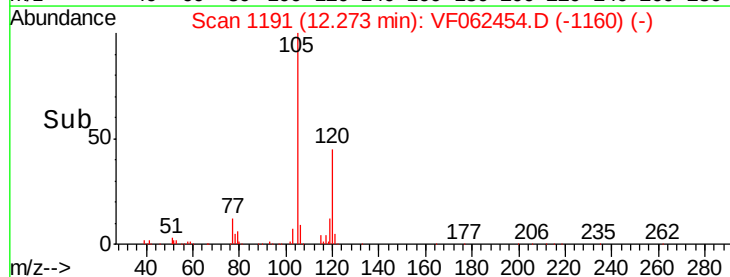
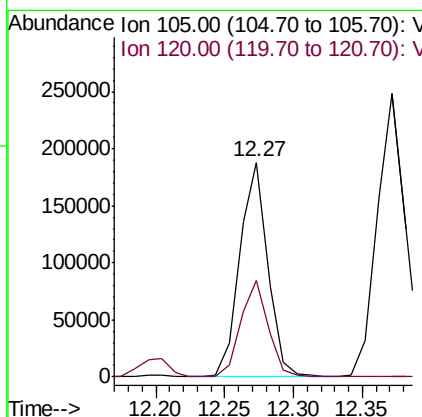
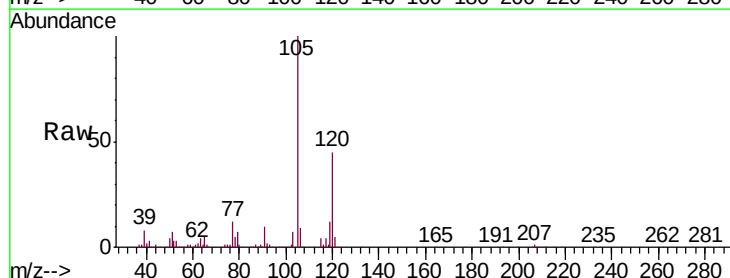
Manual Integrations
 APPROVED

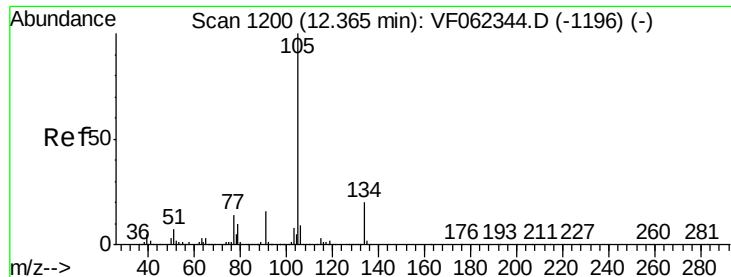
MMDadoda
 5/12/2019 12:04:26 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.407 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	267800		
120	44.1	22.6	67.7	





#85

sec-Butylbenzene

Concen: 22.743 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion:105 Resp: 355307

Ion Ratio Lower Upper

105 100

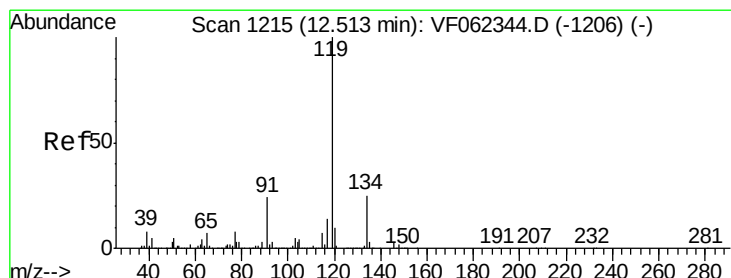
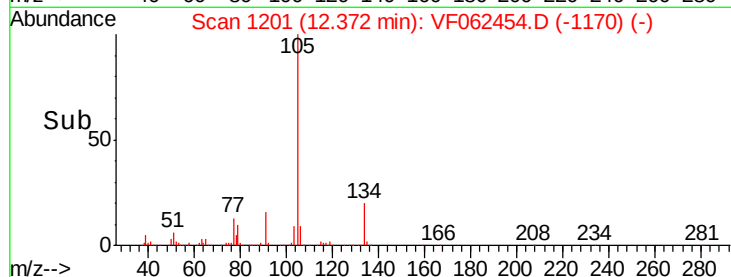
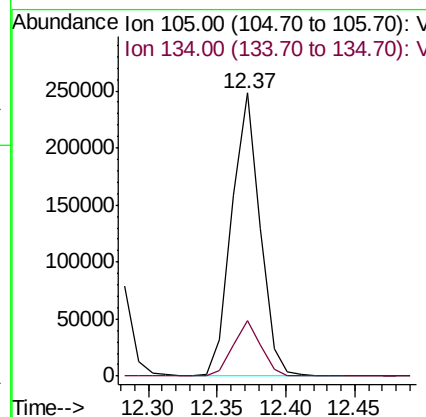
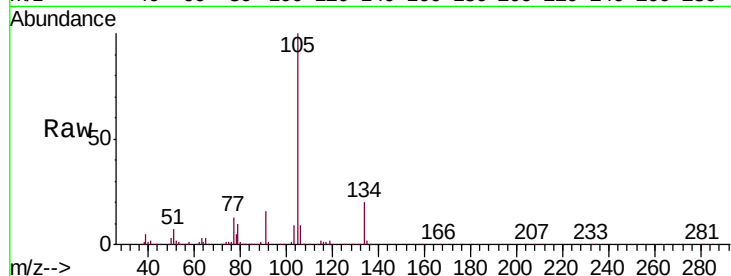
134 19.4 9.8 29.5

Manual Integrations

APPROVED

MMDadoda

5/12/2019 12:04:26 PM



#86

p-Isopropyltoluene

Concen: 22.550 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.01 min

Lab File: VF062454.D

Acq: 11 May 2019 12:28

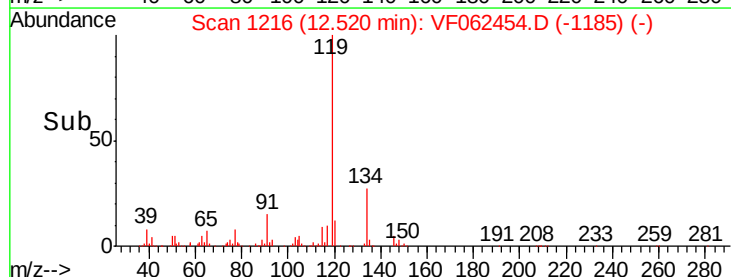
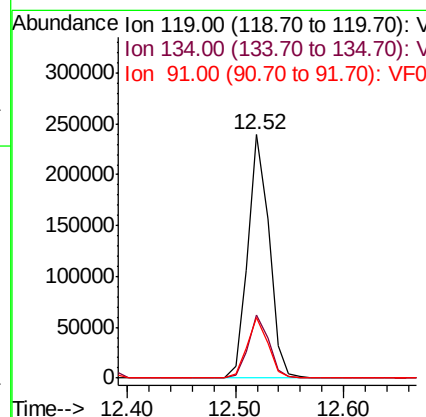
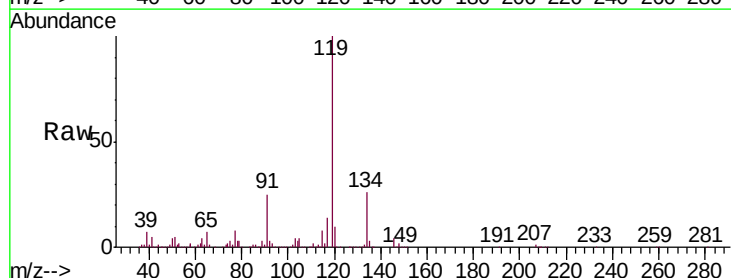
Tgt Ion:119 Resp: 327315

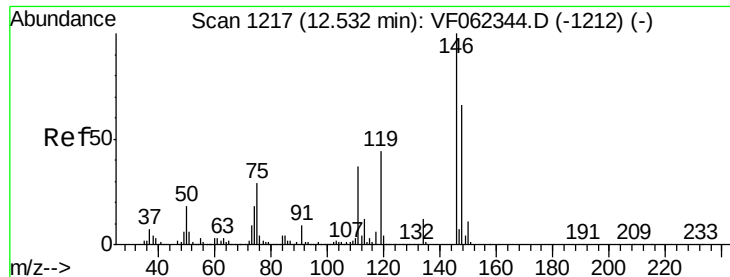
Ion Ratio Lower Upper

119 100

134 25.3 12.9 38.7

91 24.4 12.3 36.8





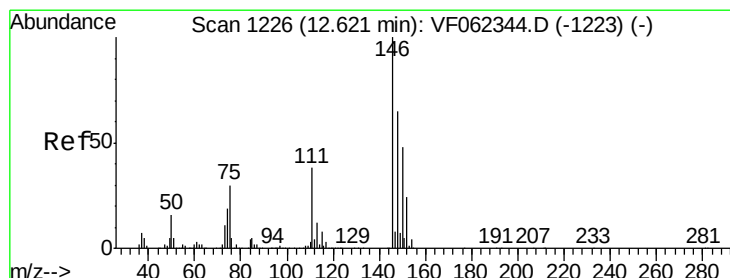
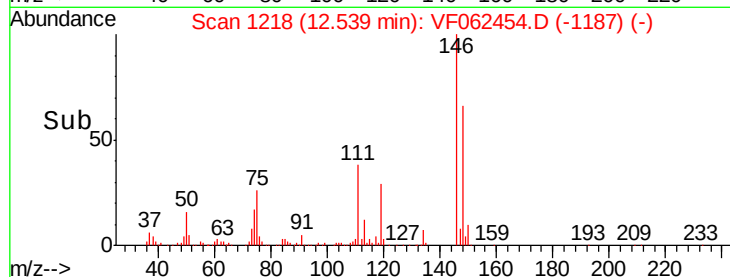
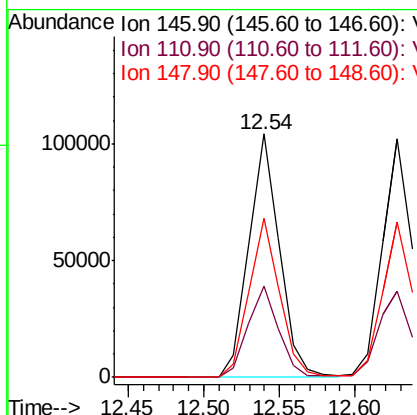
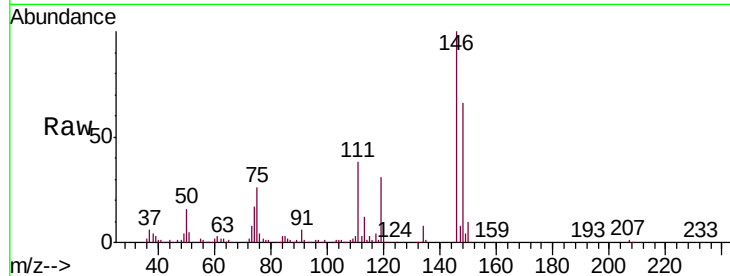
#87
 1,3-Dichlorobenzene
 Concen: 22.181 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.3	54.8
148	65.4	32.3	96.9

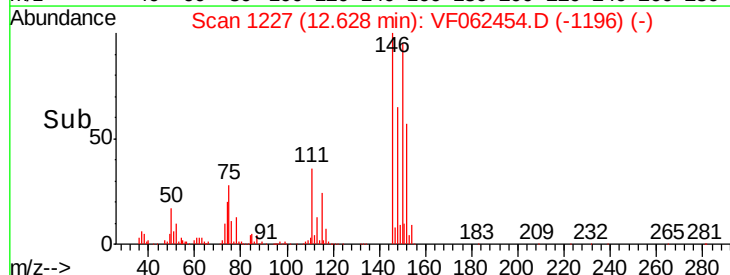
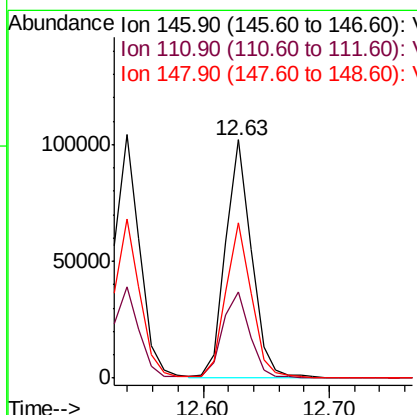
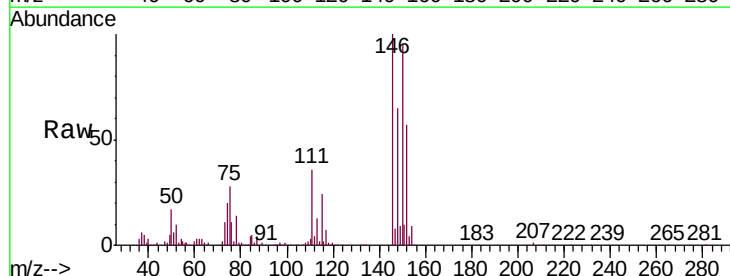
Manual Integrations
 APPROVED

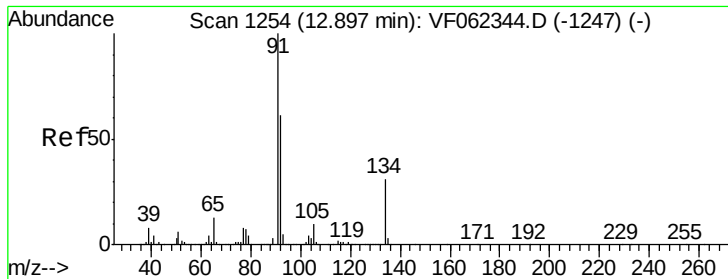
MMDadoda
 5/12/2019 12:04:26 PM



#88
 1,4-Dichlorobenzene
 Concen: 22.541 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.8	56.3
148	65.7	32.2	96.6





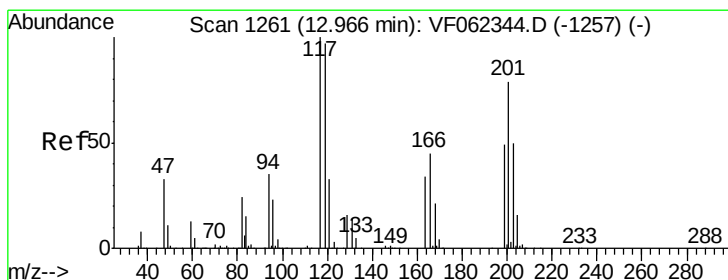
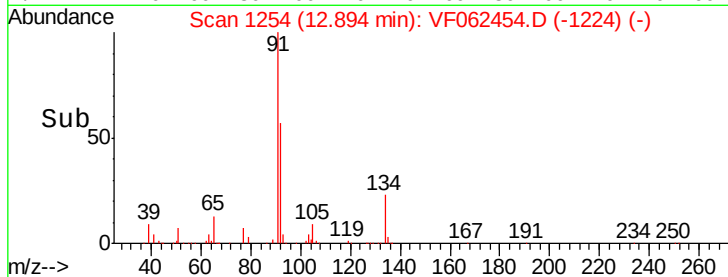
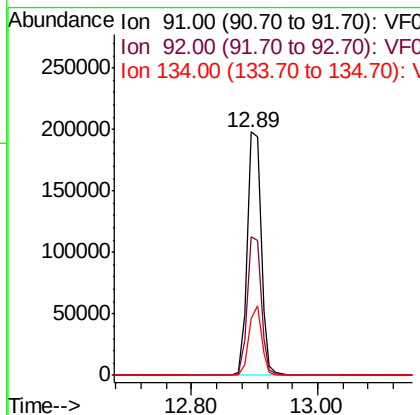
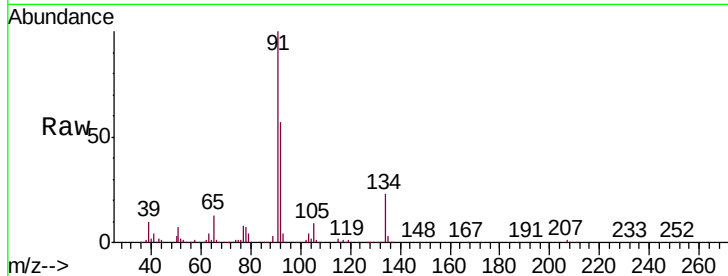
#89
n-Butylbenzene
Concen: 23.412 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	302333		
92	56.6	30.0	90.0	
134	26.2	14.1	42.4	

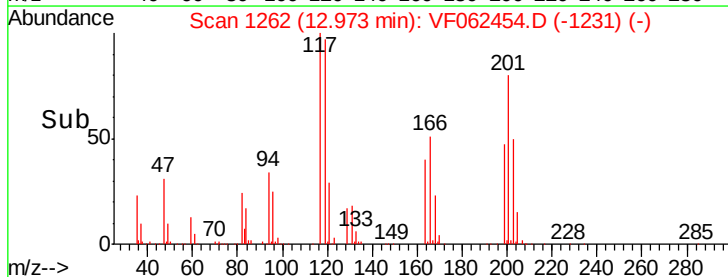
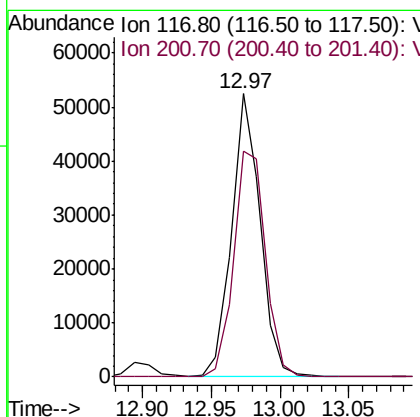
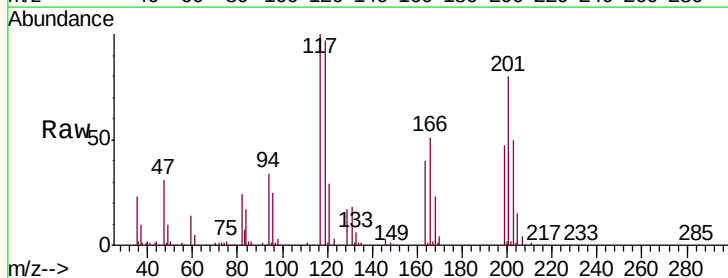
Manual Integrations
APPROVED

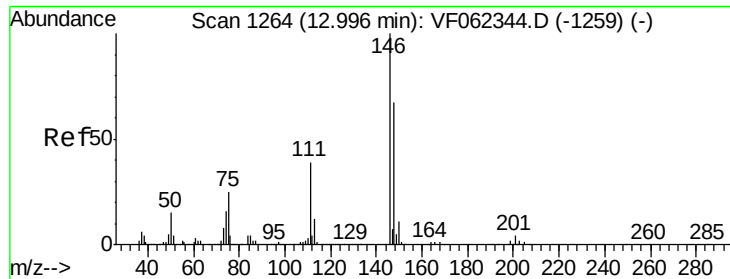
MMDadoda
5/12/2019 12:04:26 PM



#90
Hexachloroethane
Concen: 20.829 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	75486		
201	88.8	46.2	138.5	





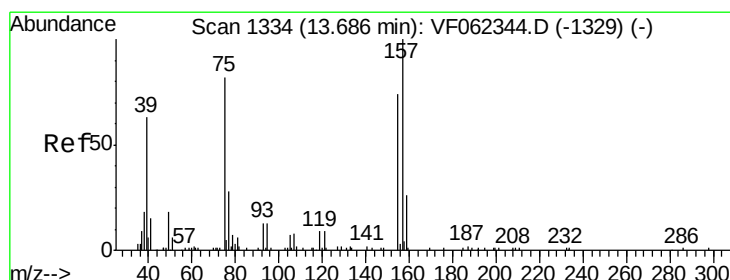
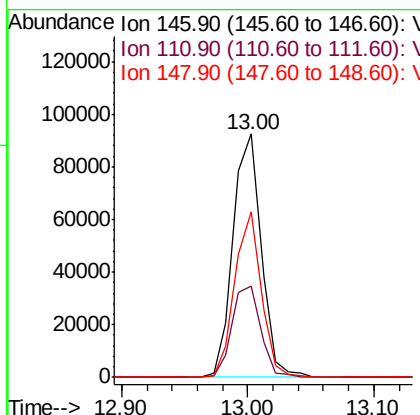
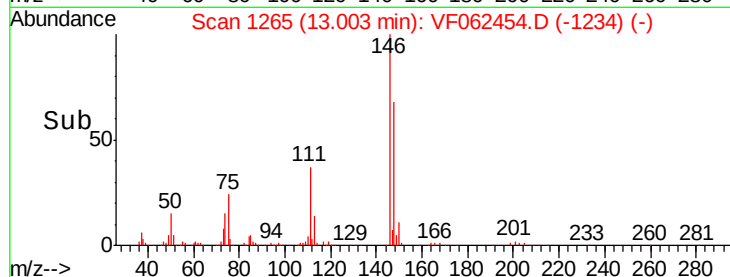
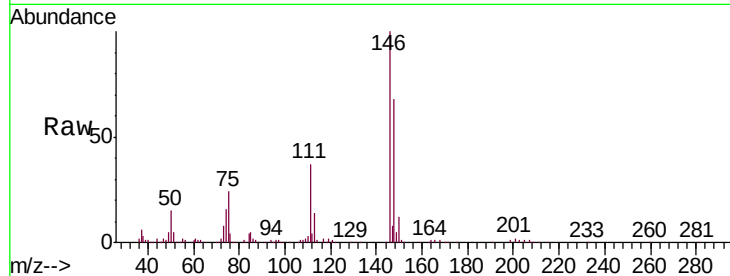
#91
 1,2-Dichlorobenzene
 Concen: 22.106 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	142901		
111	38.3	20.0	60.0	
148	64.3	33.1	99.5	

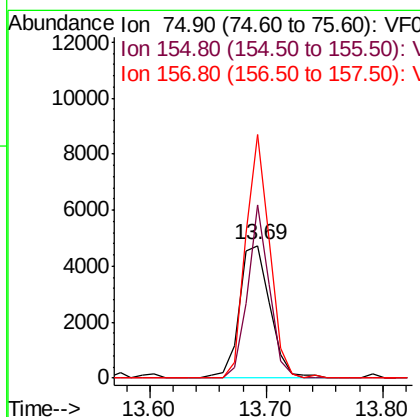
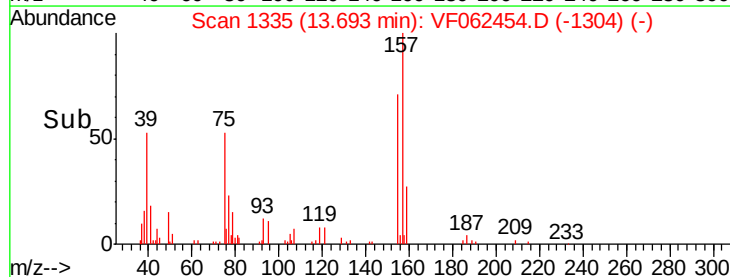
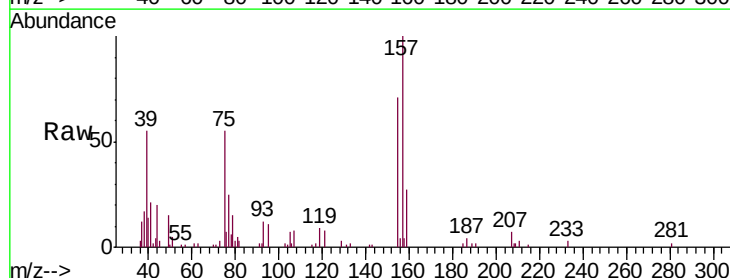
Manual Integrations
 APPROVED

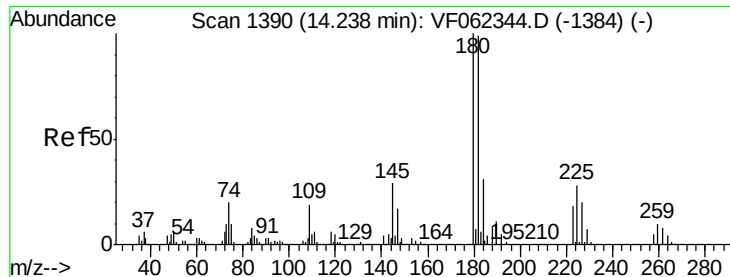
MMDadoda
 5/12/2019 12:04:26 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.823 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8711		
155	90.6	51.8	155.4	
157	140.7	67.3	201.8	





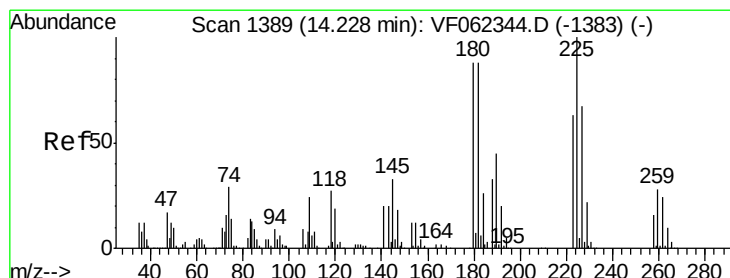
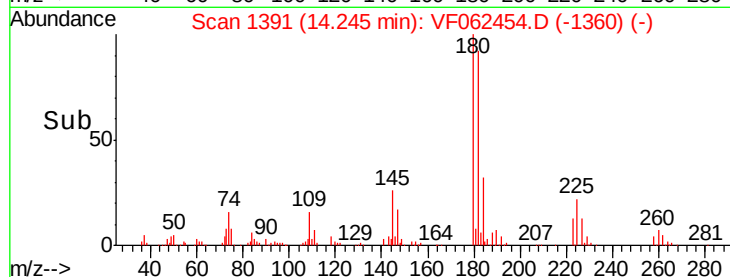
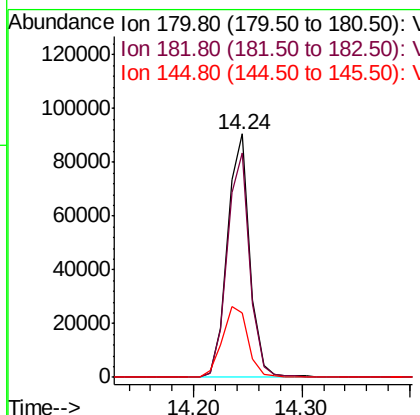
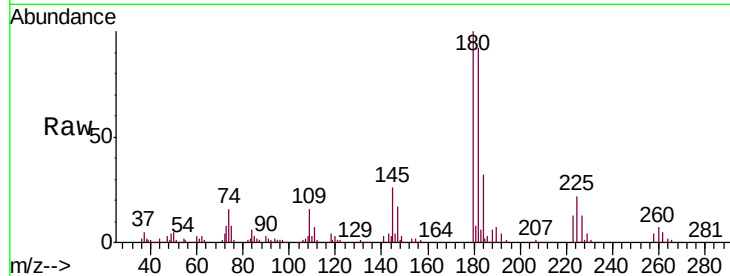
#93
 1,2,4-Trichlorobenzene
 Concen: 22.457 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	130213		
182	94.1	49.0	147.0	
145	33.6	16.7	50.1	

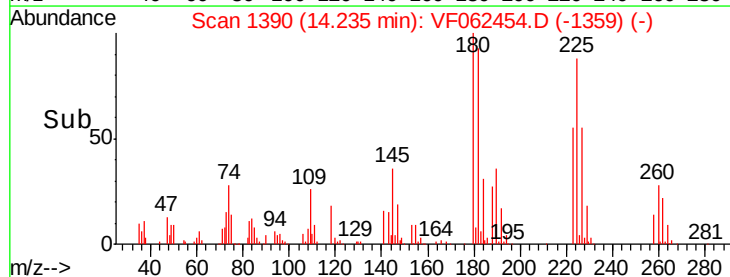
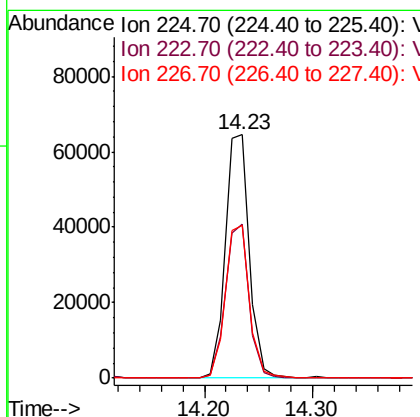
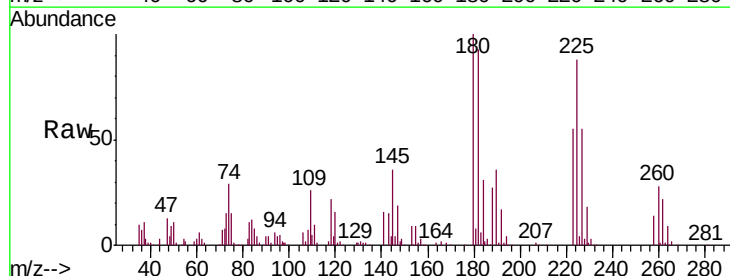
Manual Integrations
 APPROVED

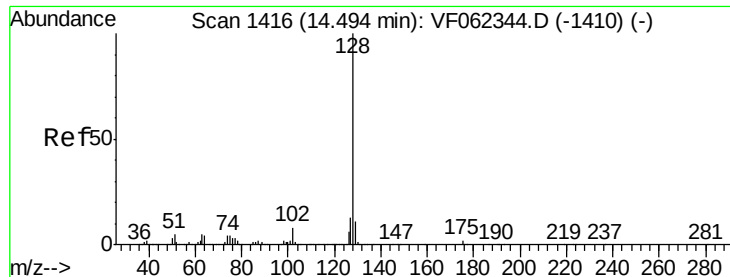
MMDadoda
 5/12/2019 12:04:26 PM



#94
 Hexachlorobutadiene
 Concen: 23.089 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062454.D
 Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	99782		
223	62.3	31.9	95.5	
227	62.7	33.1	99.5	





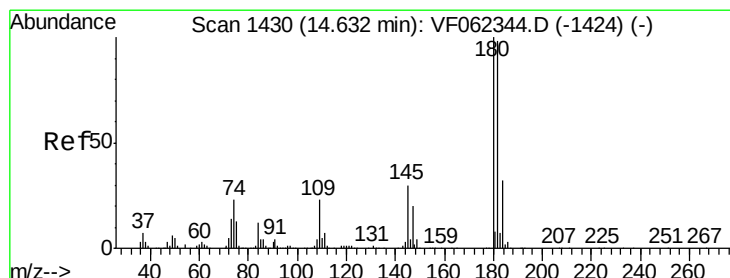
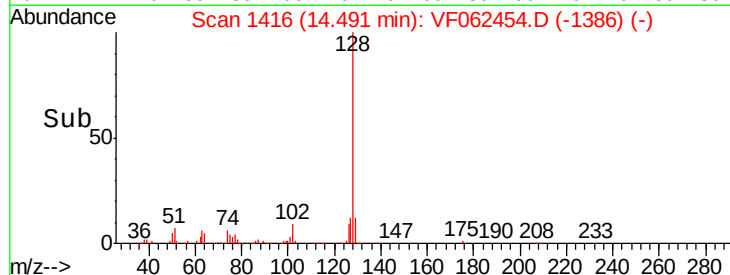
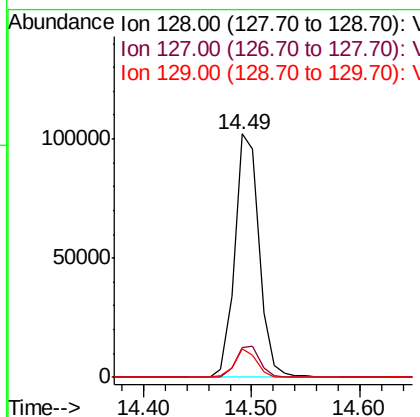
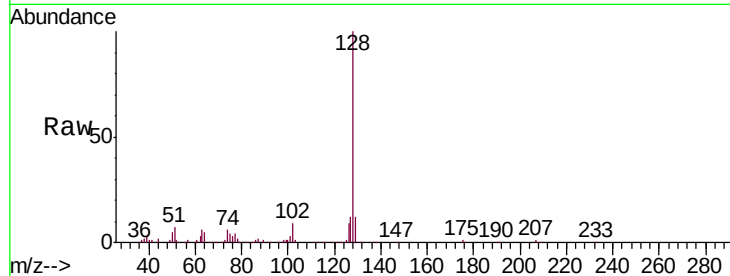
#95
Naphthalene
Concen: 18.426 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. -0.00 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	160627		
127	13.0	10.5	15.7	
129	10.7	8.6	12.8	

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:04:26 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.427 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.01 min
Lab File: VF062454.D
Acq: 11 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	120361		
182	99.3	49.4	148.0	
145	30.2	14.8	44.3	

