

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\
 Data File : VF060974.D
 Acq On : 11 Dec 2018 14:08
 Operator : VA/AP
 Sample : VF1211SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1211SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 1:27:39 PM

Quant Time: Dec 12 06:41:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	185321	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	313769	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	280446	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	143022	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	117909	54.01	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	108.02%	
35) Dibromofluoromethane	4.11	113	130215	52.31	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	104.62%	
50) Toluene-d8	7.55	98	349324	47.64	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	95.28%	
62) 4-Bromofluorobenzene	11.41	95	156072	46.83	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	93.66%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	57588	20.783	ug/l	99
3) Chloromethane	1.10	50	40477	22.449	ug/l	99
4) Vinyl Chloride	1.14	62	38792	23.065	ug/l	96
5) Bromomethane	1.33	94	25892	21.832	ug/l	89
6) Chloroethane	1.40	64	17221	23.687	ug/l	99
7) Trichlorofluoromethane	1.50	101	79063m	21.909	ug/l	
8) Diethyl Ether	1.63	74	11580	22.316	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.84	101	40482	22.190	ug/l	85
10) Methyl Iodide	1.92	142	65438m	23.598	ug/l	
11) Tert butyl alcohol	2.58	59	9413	105.182	ug/l #	91
12) 1,1-Dichloroethene	1.80	96	34489	23.504	ug/l	92
13) Acrolein	2.00	56	7009	82.662	ug/l	95
14) Allyl chloride	2.10	41	38694	21.156	ug/l	96
15) Acrylonitrile	2.95	53	22624	112.762	ug/l	96
16) Acetone	2.25	43	45775	113.703	ug/l	93
17) Carbon Disulfide	1.83	76	92158m	23.423	ug/l	
18) Methyl Acetate	2.34	43	15301	21.721	ug/l	96
19) Methyl tert-butyl Ether	2.42	73	71997	21.784	ug/l	98
20) Methylene Chloride	2.27	84	36805m	24.920	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	26796	18.941	ug/l	85
22) Diisopropyl ether	2.80	45	112971	22.692	ug/l	96
23) Vinyl Acetate	3.19	43	283105	124.404	ug/l	96
24) 1,1-Dichloroethane	2.88	63	69087	23.325	ug/l	97
25) 2-Butanone	4.35	43	76378	109.687	ug/l	92
26) 2,2-Dichloropropane	3.60	77	44803	23.332	ug/l	96
27) cis-1,2-Dichloroethene	3.48	96	51277	22.264	ug/l	95
28) Bromochloromethane	3.72	49	32903	23.146	ug/l	84
29) Tetrahydrofuran	4.08	42	31282	105.982	ug/l	98
30) Chloroform	3.86	83	103358	22.673	ug/l	99
31) Cyclohexane	3.69	56	73132m	23.791	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	59260	18.744	ug/l	94
36) 1,1-Dichloropropene	4.29	75	75319	21.642	ug/l	95
37) Ethyl Acetate	4.11	43	29241	20.676	ug/l #	83
38) Carbon Tetrachloride	3.99	117	61329	19.952	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	70384	19.298	ug/l	98
40) Benzene	4.63	78	171105	22.255	ug/l	99
41) Methacrylonitrile	4.75	41	16690	20.505	ug/l #	87
42) 1,2-Dichloroethane	4.94	62	61221	21.811	ug/l	95
43) Isopropyl Acetate	6.97	43	35212	18.464	ug/l #	99
44) Trichloroethene	5.50	130	54756	21.781	ug/l	97
45) 1,2-Dichloropropane	6.24	63	42350	21.209	ug/l	94
46) Dibromomethane	6.09	93	28142	20.776	ug/l	98
47) Bromodichloromethane	6.39	83	74061	20.585	ug/l	96
48) Methyl methacrylate	6.71	41	23930	18.693	ug/l	90
49) 1,4-Dioxane	6.71	88	4405	470.162	ug/l #	82
51) 4-Methyl-2-Pentanone	8.26	43	129523	99.314	ug/l	95
52) Toluene	7.62	92	107334	19.875	ug/l	99
53) t-1,3-Dichloropropene	8.28	75	57505	19.650	ug/l	100
54) cis-1,3-Dichloropropene	7.31	75	76478	21.110	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	31591	20.075	ug/l	92
56) Ethyl methacrylate	8.63	69	32056	18.337	ug/l	95
57) 1,3-Dichloropropane	8.85	76	54263	19.709	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	29950	167.499	ug/l	97
59) 2-Hexanone	9.50	43	93753	102.466	ug/l	98
60) Dibromochloromethane	8.72	129	45384	19.356	ug/l	92
61) 1,2-Dibromoethane	8.99	107	33865	19.921	ug/l	92
64) Tetrachloroethene	8.15	164	46246	21.590	ug/l	91
65) Chlorobenzene	9.80	112	121629	22.294	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.94	131	50147	21.381	ug/l	97
67) Ethyl Benzene	9.90	91	229633	22.608	ug/l	98
68) m/p-Xylenes	10.14	106	160318	43.886	ug/l	97
69) o-Xylene	10.72	106	88176	21.889	ug/l	87
70) Styrene	10.79	104	119684	21.433	ug/l	99
71) Bromoform	10.78	173	20984	18.522	ug/l #	94
73) Isopropylbenzene	11.12	105	272507	24.111	ug/l	97
74) N-amyl acetate	11.38	43	54313	20.810	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.70	83	40753	21.909	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	30155	22.303	ug/l	94
77) Bromobenzene	11.50	156	53275	21.500	ug/l	78
78) n-propylbenzene	11.60	91	311606	23.542	ug/l	100
79) 2-Chlorotoluene	11.72	91	185276	24.413	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	225573	24.584	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.87	75	13768m	20.783	ug/l	
82) 4-Chlorotoluene	11.90	91	181000	22.662	ug/l	96
83) tert-Butylbenzene	12.13	119	228787	24.479	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	213682	23.335	ug/l	95
85) sec-Butylbenzene	12.31	105	301948	23.600	ug/l	98
86) p-Isopropyltoluene	12.46	119	263545	24.569	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	108052	22.925	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	99418	21.644	ug/l	95
89) n-Butylbenzene	12.85	91	257589	23.748	ug/l	99
90) Hexachloroethane	12.92	117	60289	23.340	ug/l	98
91) 1,2-Dichlorobenzene	12.95	146	99924	22.387	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.65	75	6597	18.344	ug/l	81

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	69597	22.316	ug/l	98
94) Hexachlorobutadiene	14.19	225	46237	22.240	ug/l	98
95) Naphthalene	14.46	128	115974	16.838	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	60331	20.834	ug/l	98

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

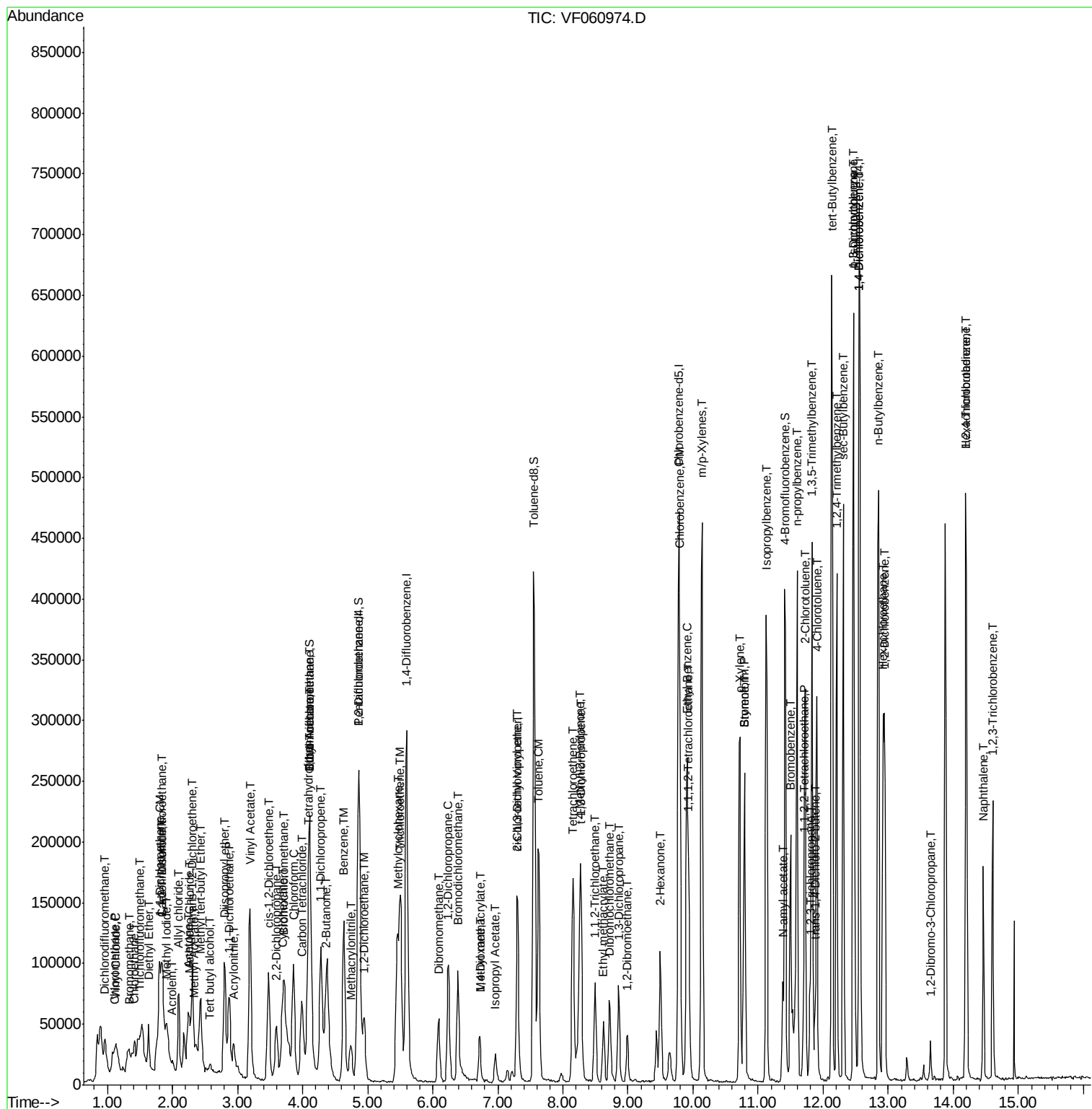
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Data File : VF060974.D
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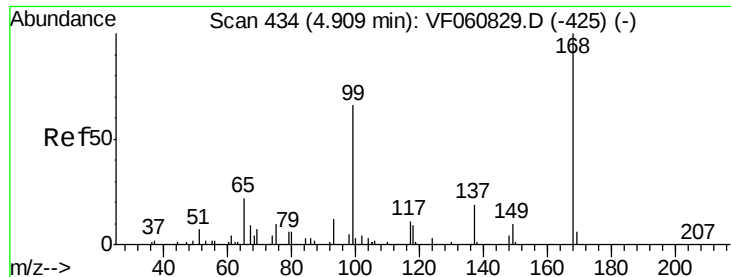
Instrument :
MSVOA_F
Client Sample Id :
VF1211SBS01

Manual Integrations
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion:168 Resp: 185321

Ion Ratio Lower Upper

168 100

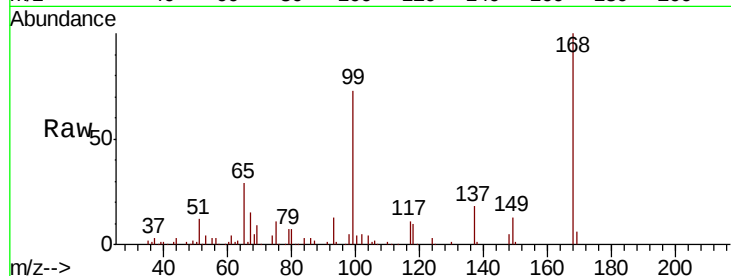
99 73.2 52.6 79.0

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

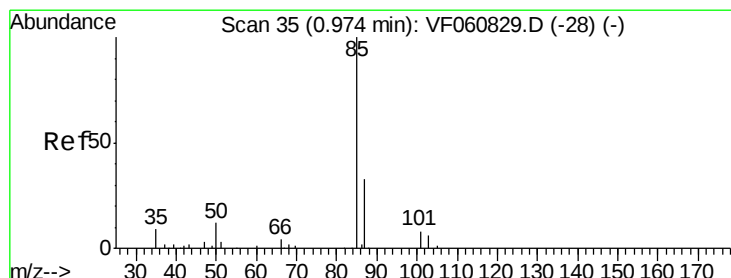
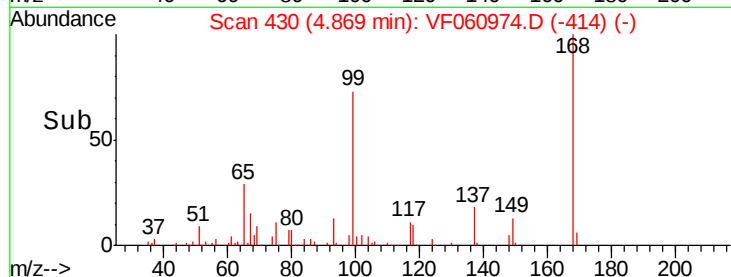
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 20.783 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060974.D

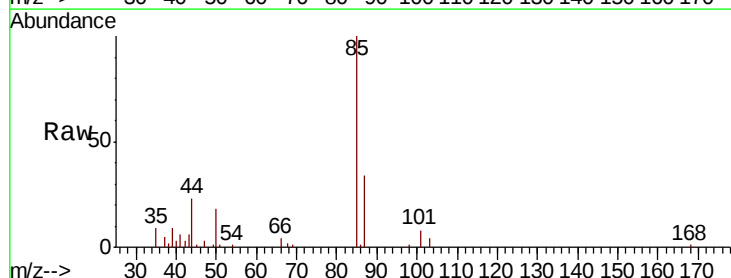
Acq: 11 Dec 2018 14:08

Tgt Ion: 85 Resp: 57588

Ion Ratio Lower Upper

85 100

87 33.8 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

15000

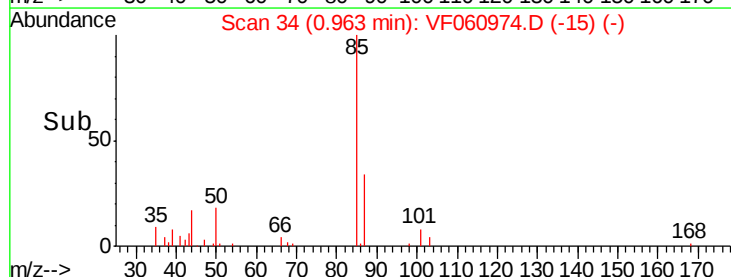
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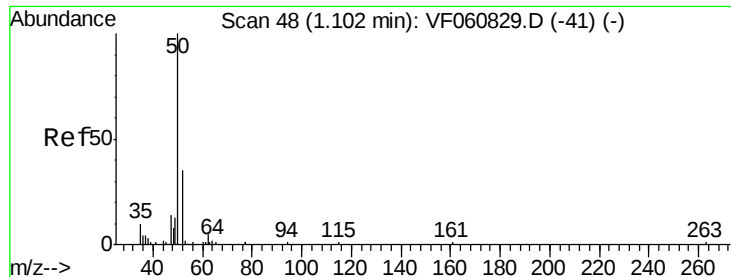
5000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 22.449 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 50 Resp: 40477

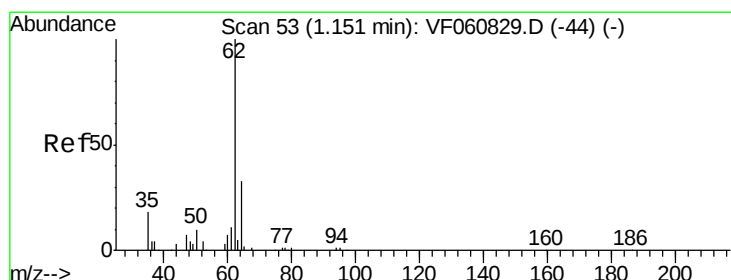
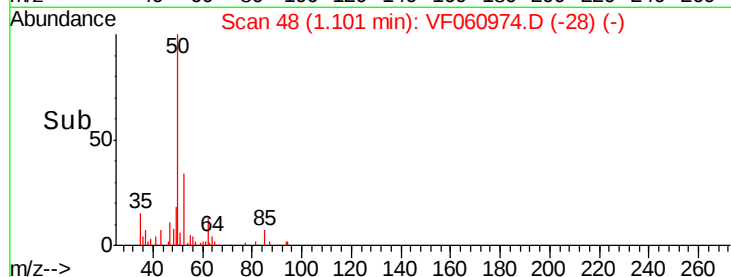
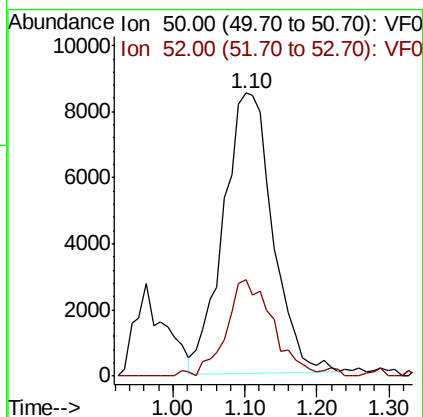
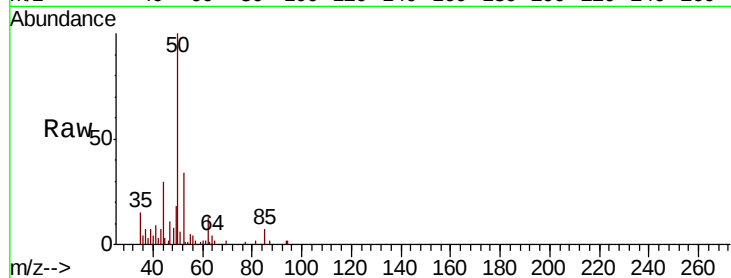
Ion Ratio Lower Upper

50 100

52 34.0 27.0 40.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 23.065 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060974.D

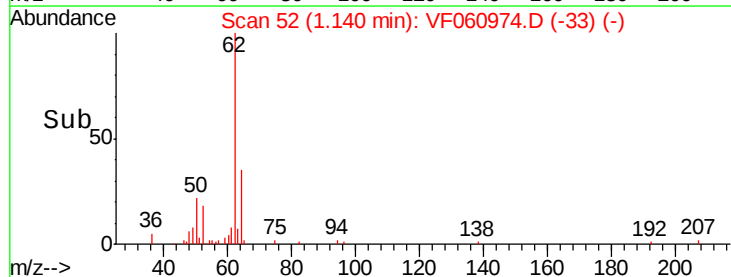
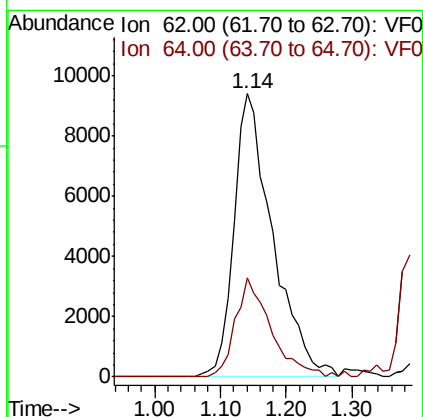
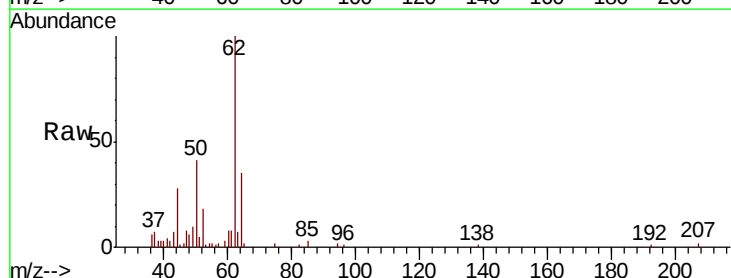
Acq: 11 Dec 2018 14:08

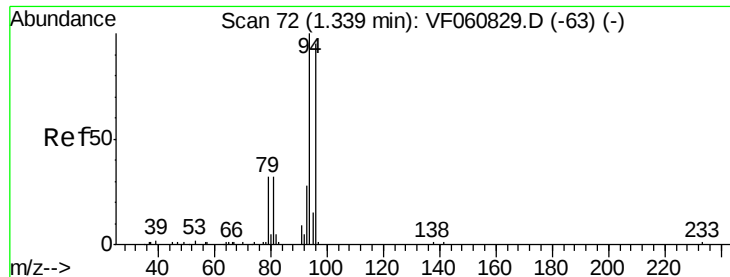
Tgt Ion: 62 Resp: 38792

Ion Ratio Lower Upper

62 100

64 35.0 26.4 39.6





#5

Bromomethane

Concen: 21.832 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 94 Resp: 25892

Ion Ratio Lower Upper

94 100

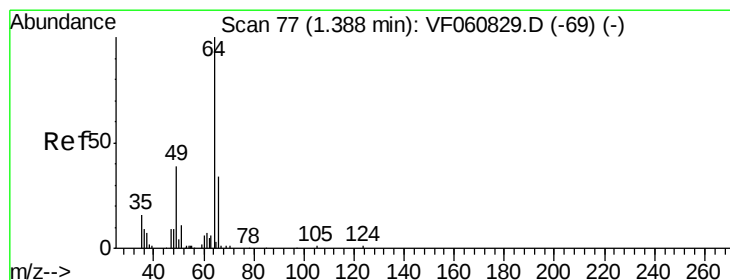
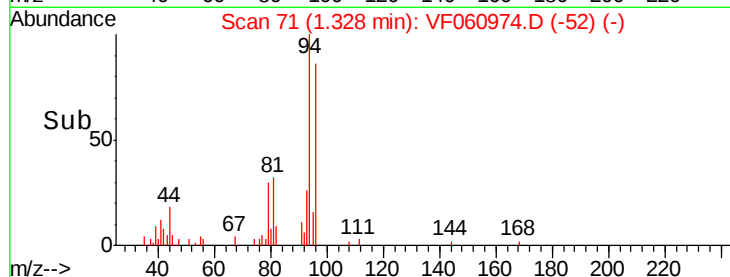
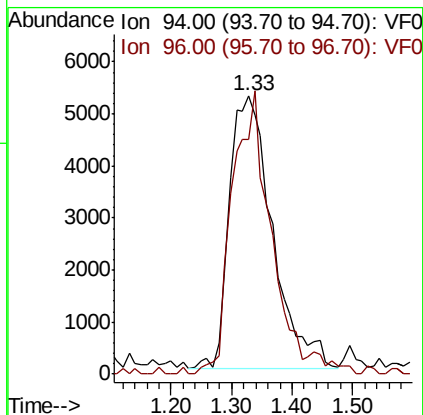
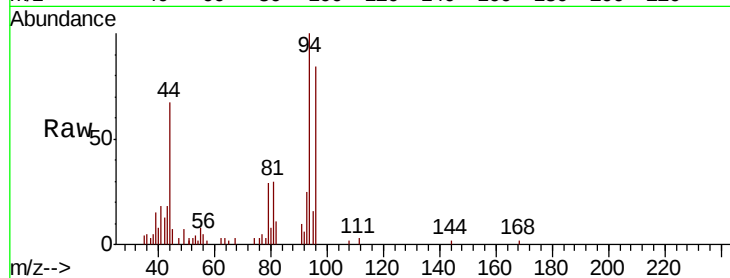
96 84.2 75.9 113.9

Manual Integrations

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#6

Chloroethane

Concen: 23.687 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.01 min

Lab File: VF060974.D

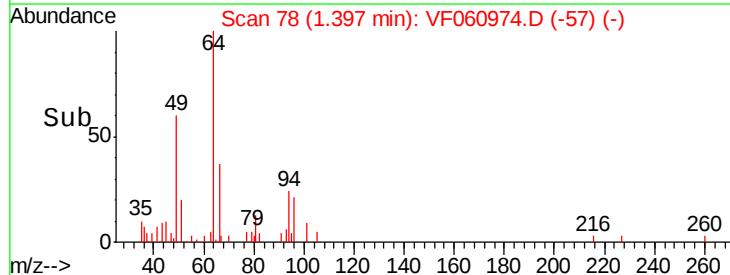
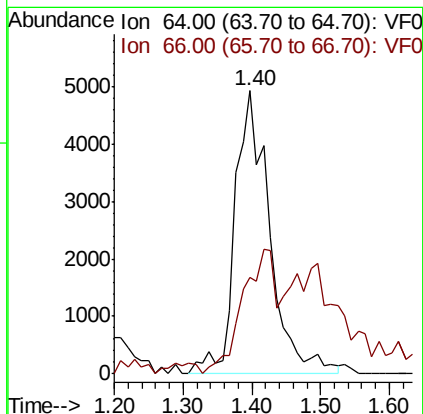
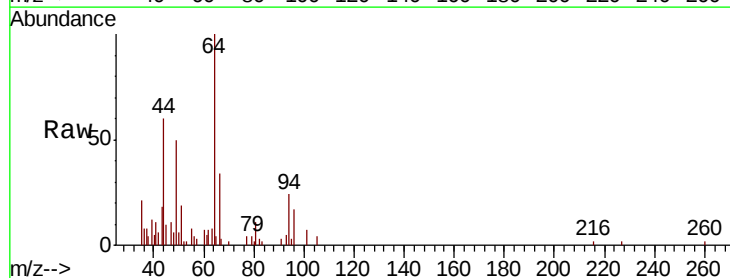
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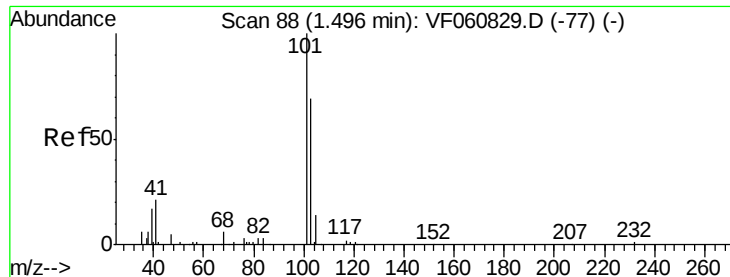
Tgt Ion: 64 Resp: 17221

Ion Ratio Lower Upper

64 100

66 34.2 28.1 42.1





#7

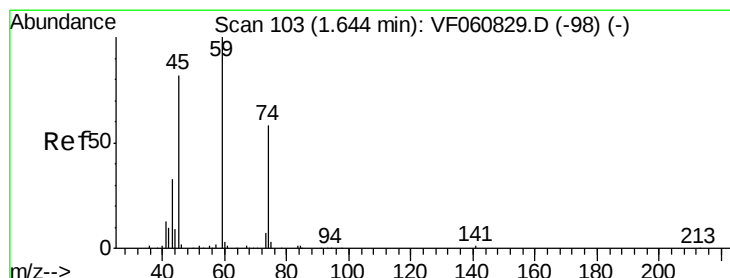
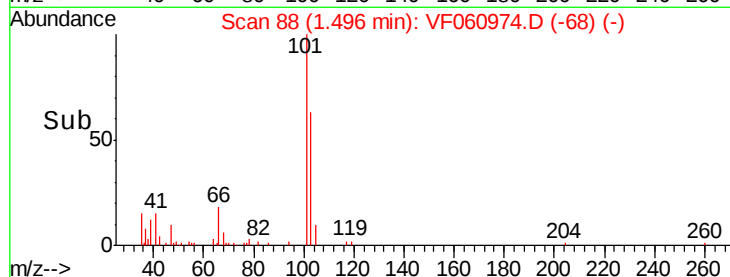
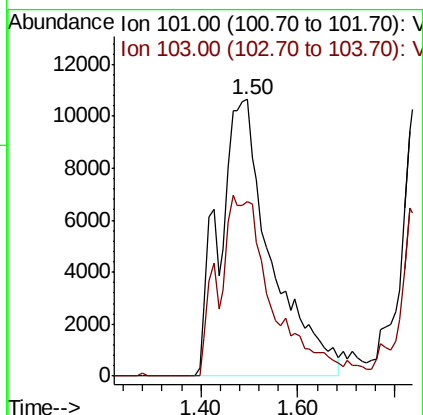
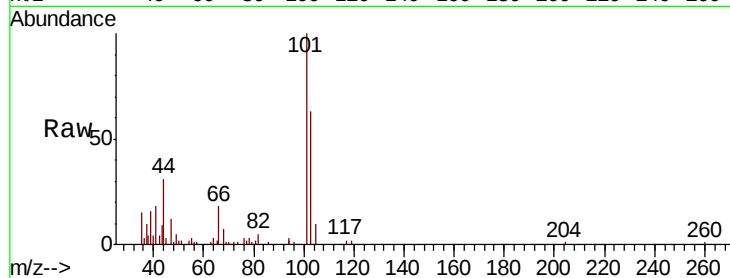
Trichlorofluoromethane
 Concen: 21.909 ug/l m
 RT: 1.50 min Scan# 88
 Delta R.T. -0.00 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Instrument :
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 ClientSampleId :
 VF1211SBS01

Tot Ion:101 Resp: 79063
 Ion Ratio Lower Upper
 101 100
 103 63.3 55.4 83.0

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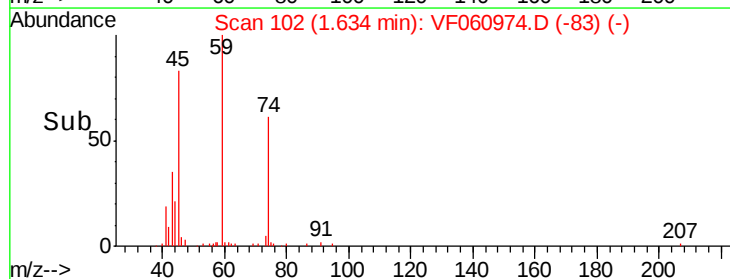
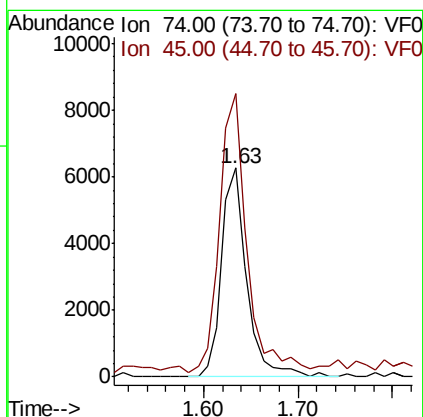
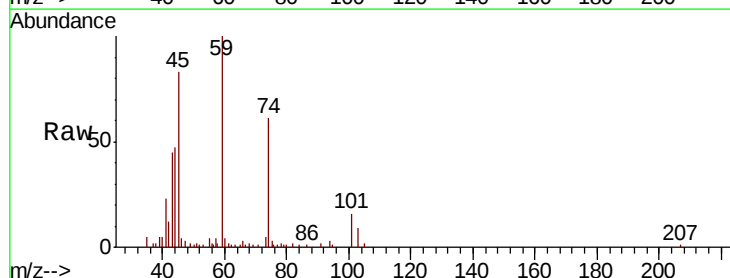
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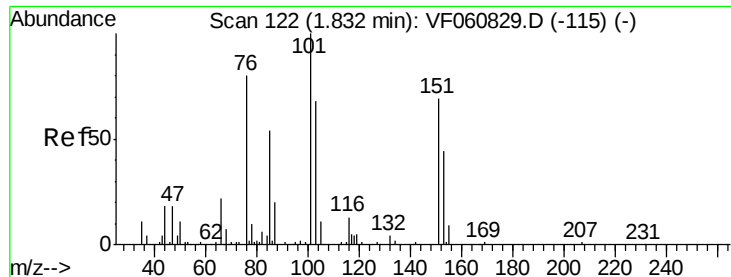


#8

Diethyl Ether
 Concen: 22.316 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. -0.01 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Tgt Ion: 74 Resp: 11580
 Ion Ratio Lower Upper
 74 100
 45 135.7 71.0 212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.190 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

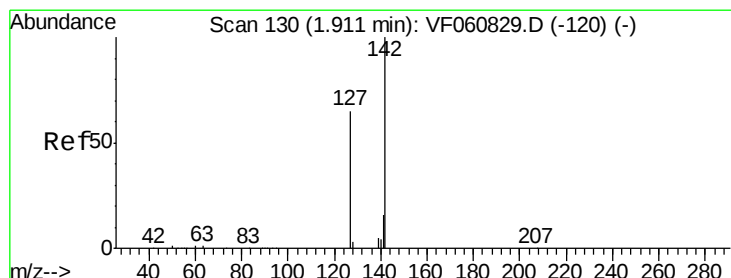
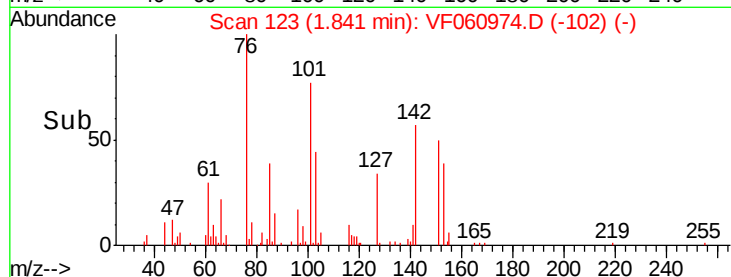
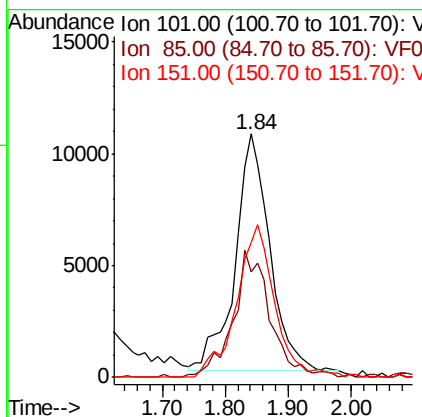
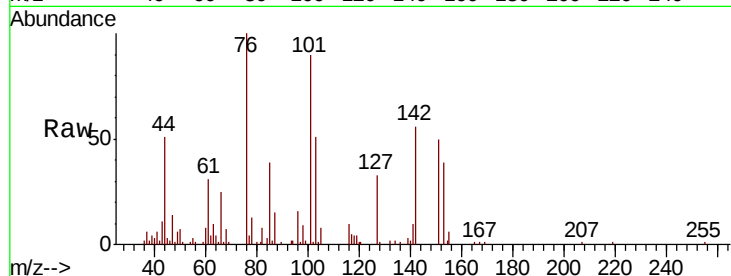
ClientSampleId :

VF1211SBS01

Tot Ion:	101	Resp:	40482
Ion Ratio	Lower	Upper	
101	100		
85	43.1	42.8	64.2
151	55.4	54.4	81.6

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MMDadoda
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#10

Methyl Iodide

Concen: 23.598 ug/l m

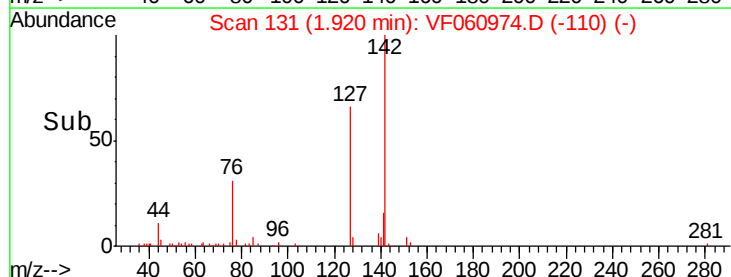
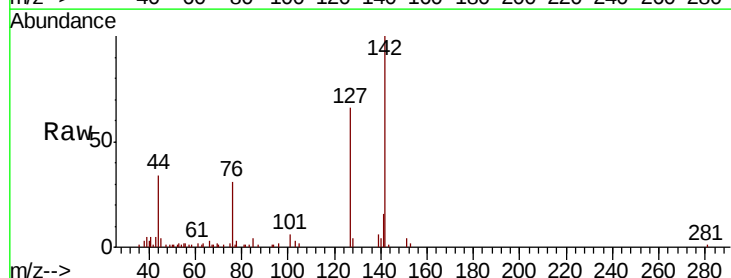
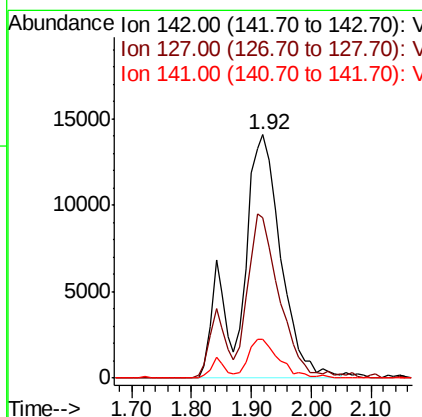
RT: 1.92 min Scan# 131

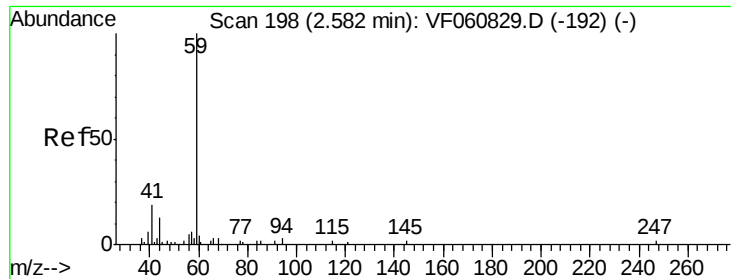
Delta R.T. 0.01 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Tgt Ion:	142	Resp:	65438
Ion Ratio	Lower	Upper	
142	100		
127	65.6	51.9	77.9
141	16.1	12.7	19.1





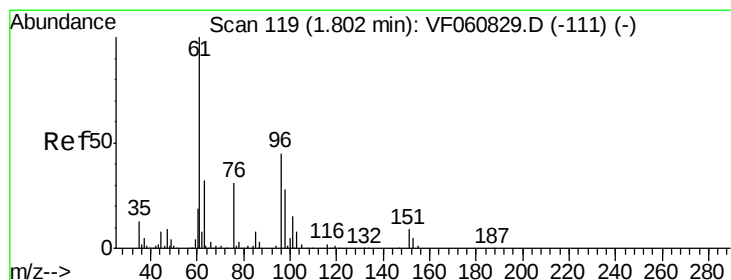
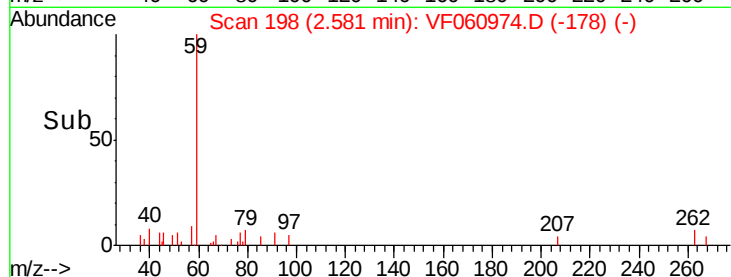
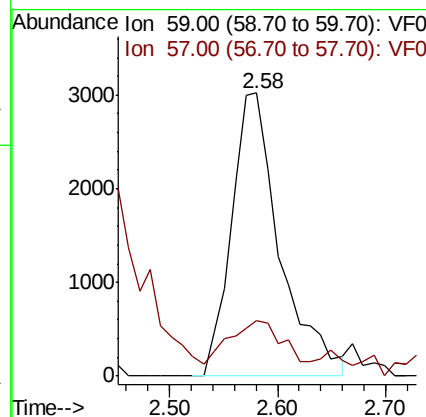
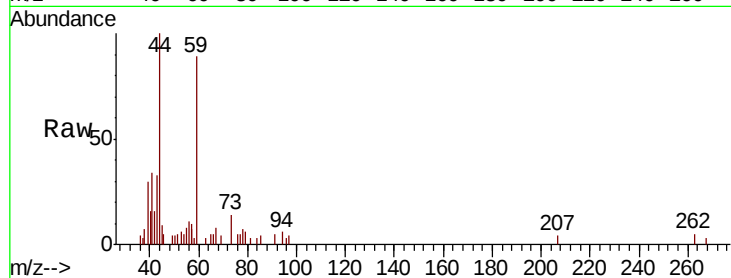
#11
Tert butyl alcohol
Concen: 105.182 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion: 59 Resp: 9413
Ion Ratio Lower Upper
59 100
57 19.7 12.7 19.1#

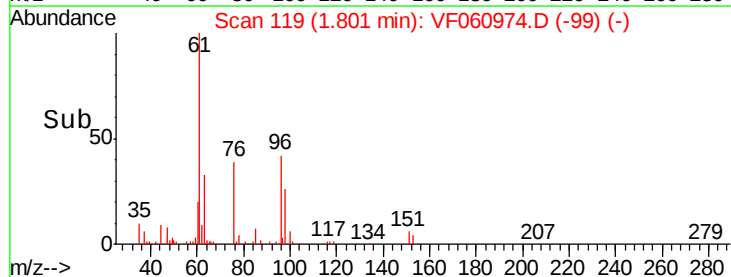
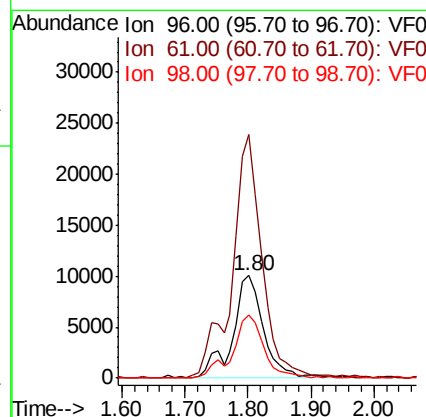
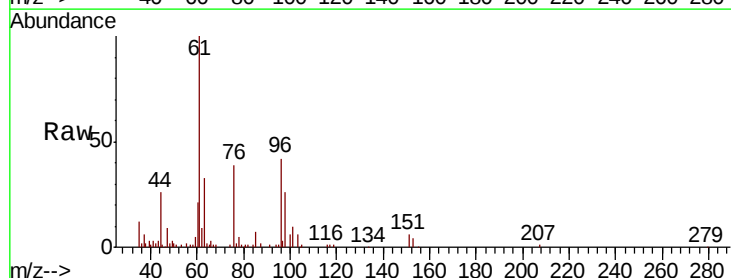
Manual Integrations
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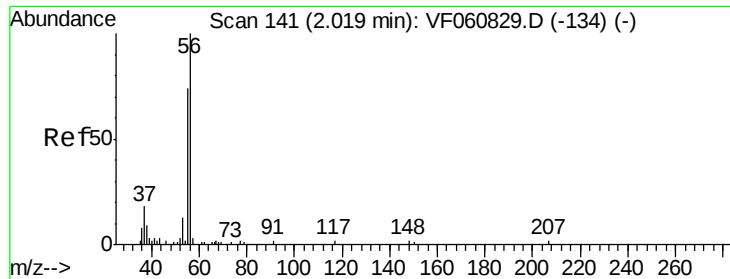
MMDadoda
12/12/2018 1:27:39 PM



#12
1,1-Dichloroethene
Concen: 23.504 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion: 96 Resp: 34489
Ion Ratio Lower Upper
96 100
61 237.4 177.3 265.9
98 62.2 49.6 74.4





#13

Acrolein

Concen: 82.662 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 56 Resp: 7009

Ion Ratio Lower Upper

56 100

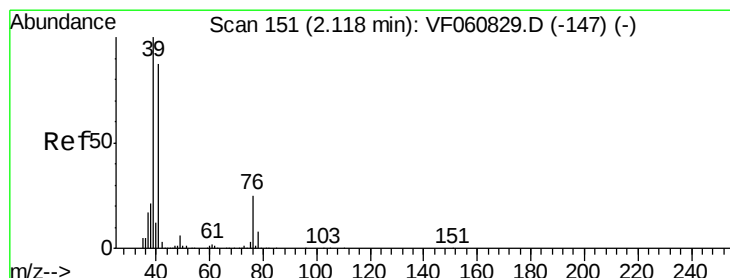
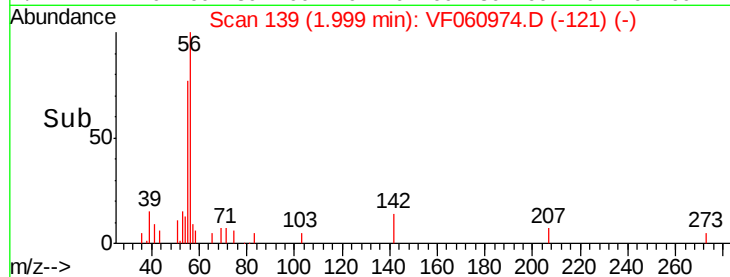
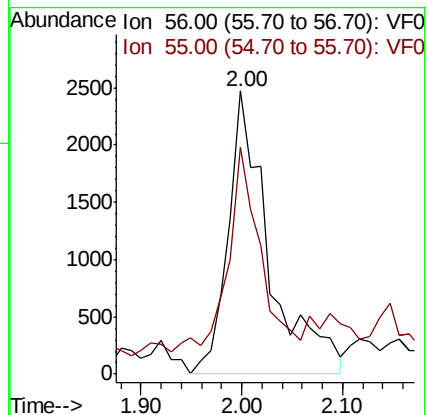
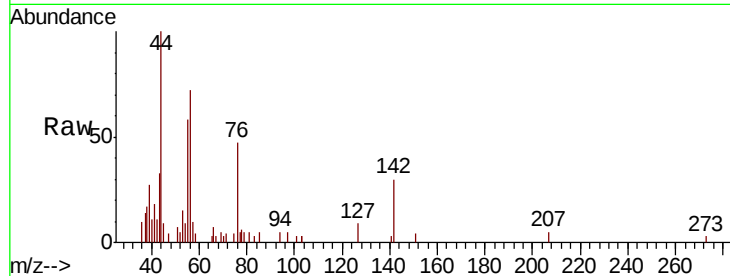
55 80.4 61.2 91.8

Manual Integrations

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MMDadoda

12/12/2018 1:27:39 PM



#14

Allyl chloride

Concen: 21.156 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

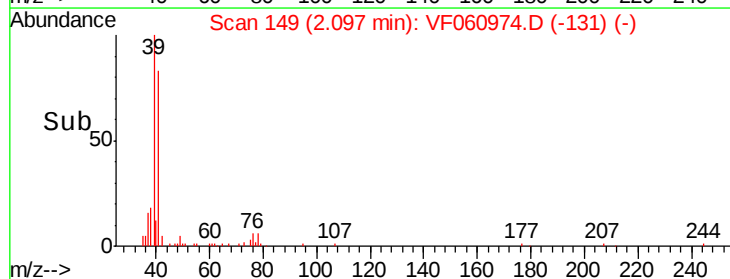
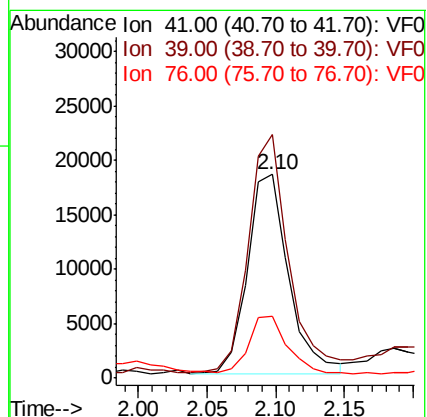
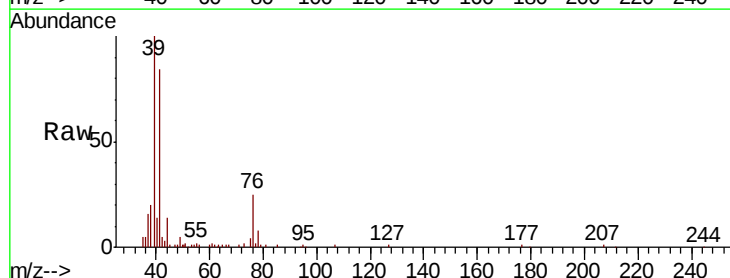
Tgt Ion: 41 Resp: 38694

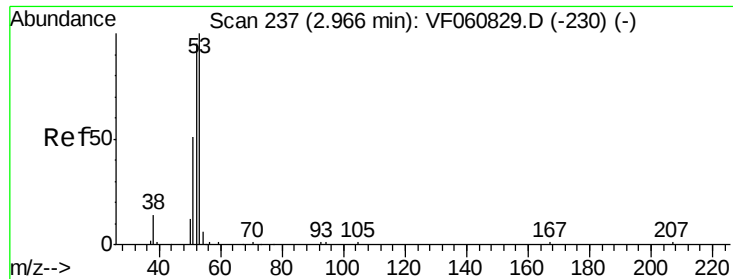
Ion Ratio Lower Upper

41 100

39 119.7 91.7 137.5

76 30.5 23.5 35.3





#15

Acrylonitrile

Concen: 112.762 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

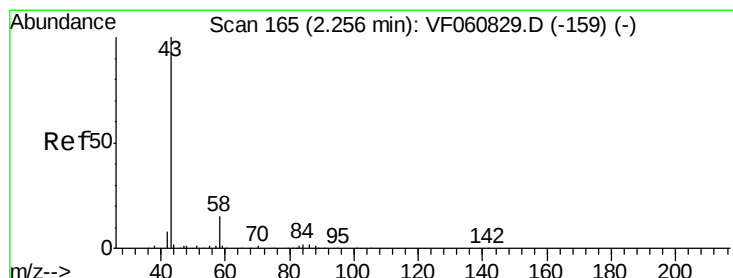
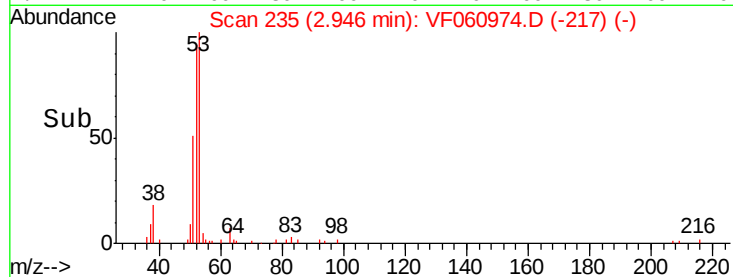
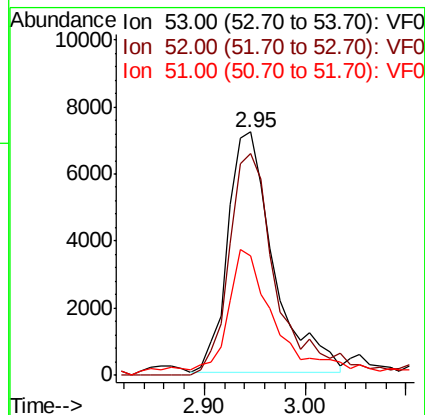
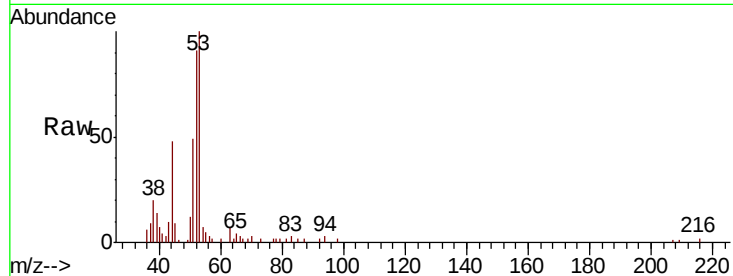
ClientSampleId :

VF1211SBS01

Tot Ion:	53	Resp:	22624
Ion	Ratio	Lower	Upper
53	100		
52	91.0	76.5	114.7
51	49.2	40.7	61.1

Manual Integrations
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#16

Acetone

Concen: 113.703 ug/l

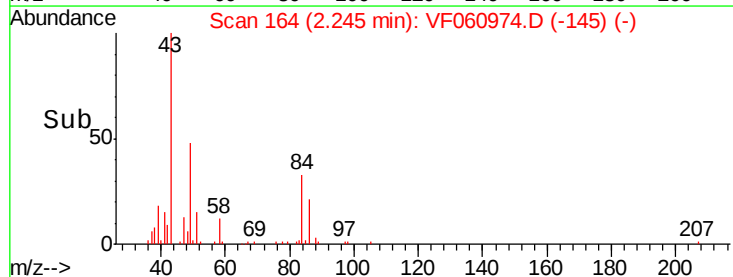
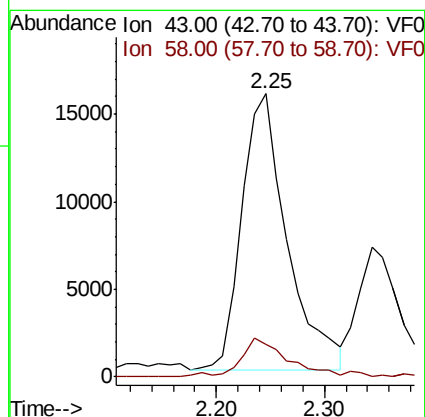
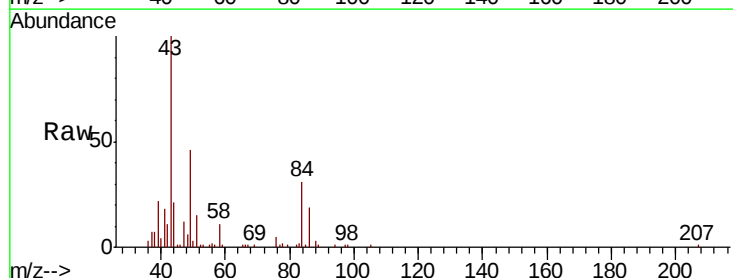
RT: 2.25 min Scan# 164

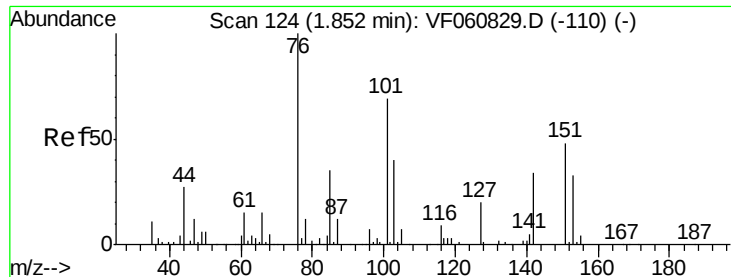
Delta R.T. -0.01 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Tgt Ion:	43	Resp:	45775
Ion	Ratio	Lower	Upper
43	100		
58	11.5	11.4	17.2





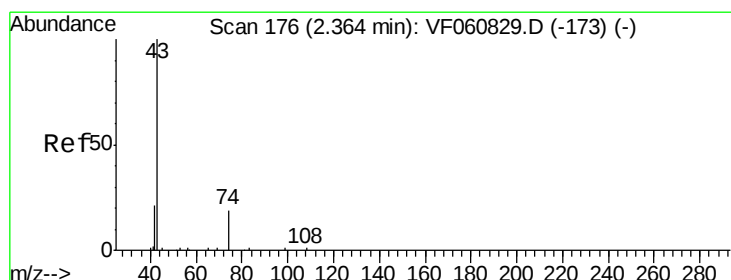
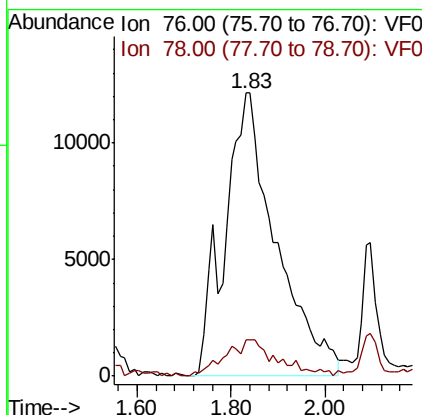
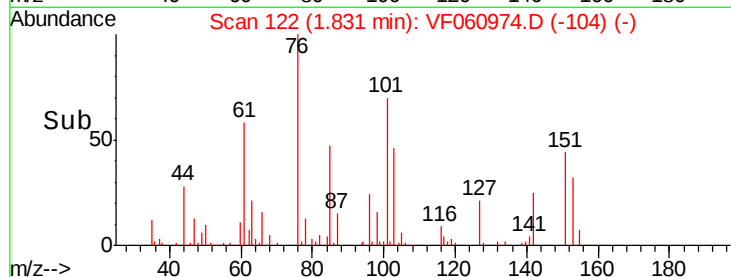
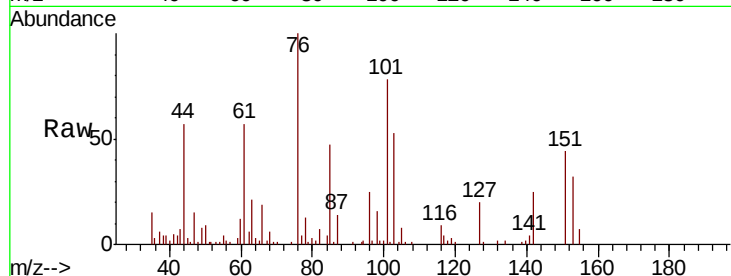
#17
Carbon Disulfide
Concen: 23.423 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. -0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion: 76 Resp: 92158
Ion Ratio Lower Upper
76 100
78 12.8 10.2 15.2

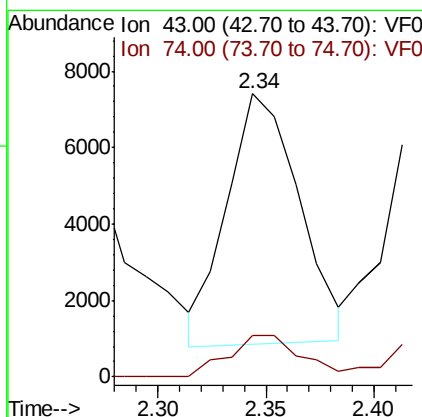
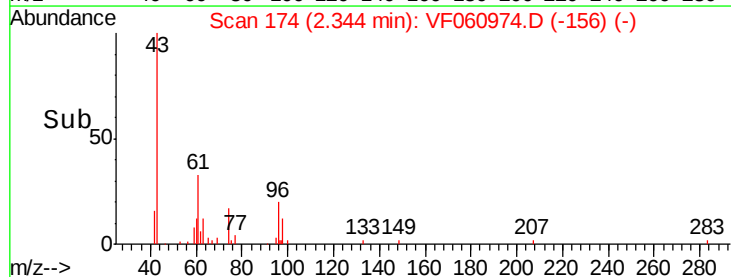
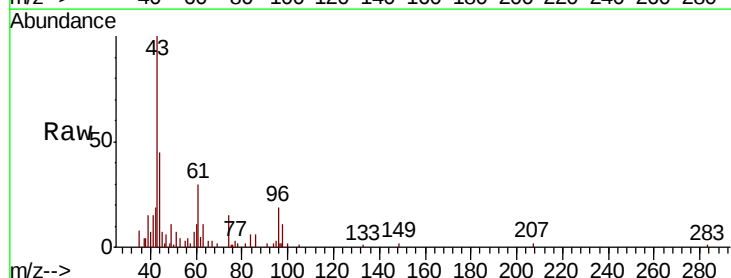
Manual Integrations
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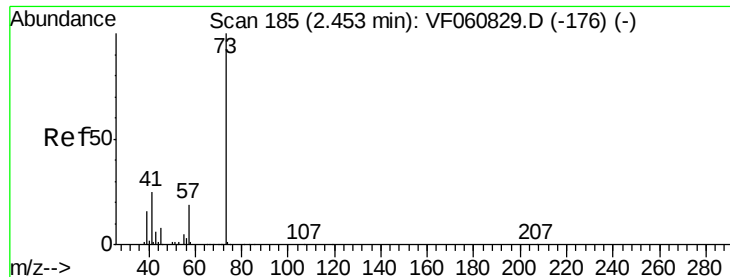
MMDadoda
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#18
Methyl Acetate
Concen: 21.721 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion: 43 Resp: 15301
Ion Ratio Lower Upper
43 100
74 14.9 13.3 19.9





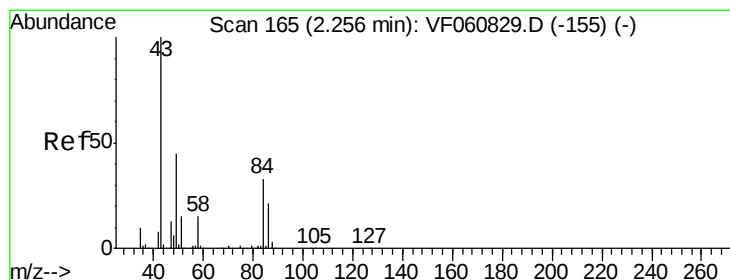
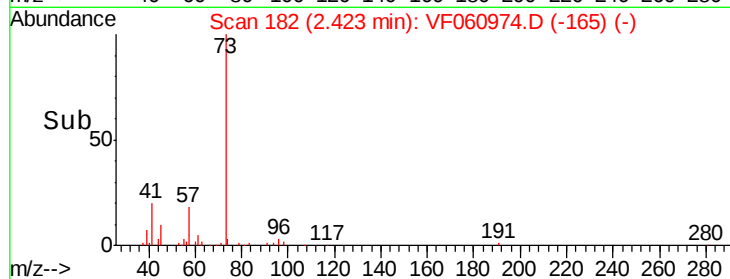
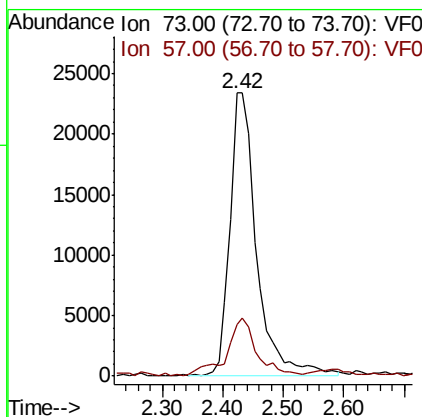
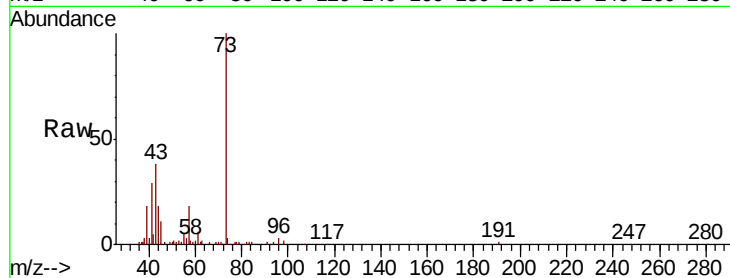
#19
Methvl tert-butvl Ether
Concen: 21.784 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.4	15.3	22.9

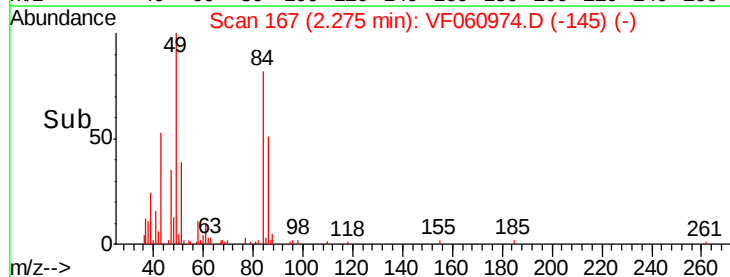
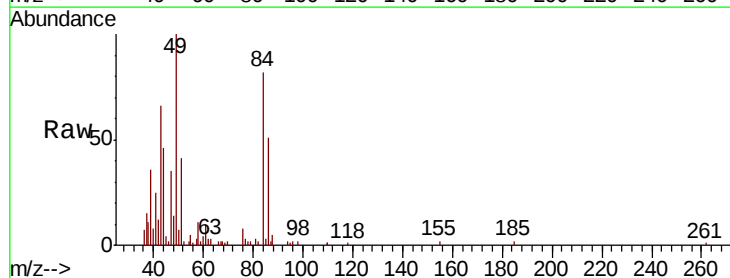
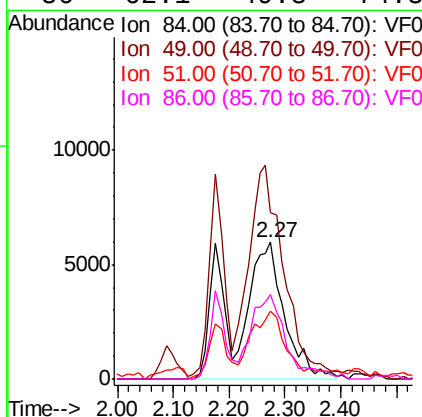
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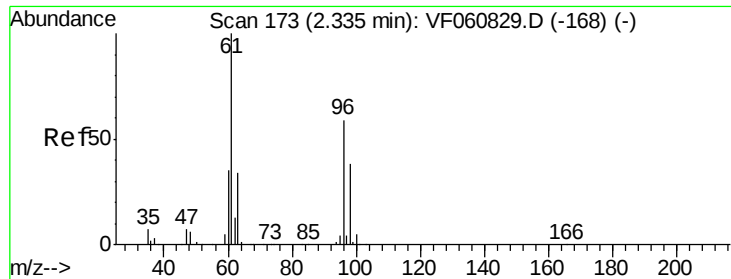
MMDadoda
12/12/2018 1:27:39 PM



#20
Methylene Chloride
Concen: 24.920 ug/l m
RT: 2.27 min Scan# 167
Delta R.T. 0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	122.0	111.3	166.9
51	49.4	38.0	57.0
86	62.1	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 18.941 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

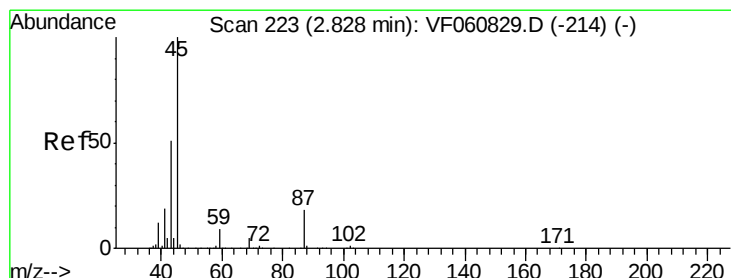
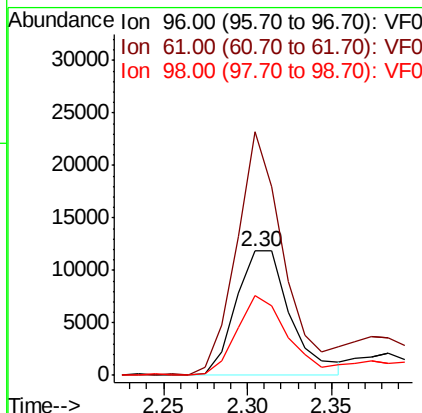
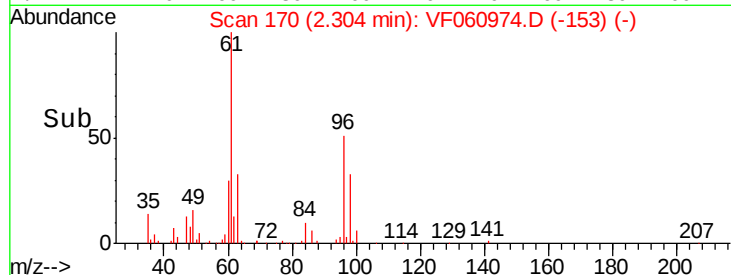
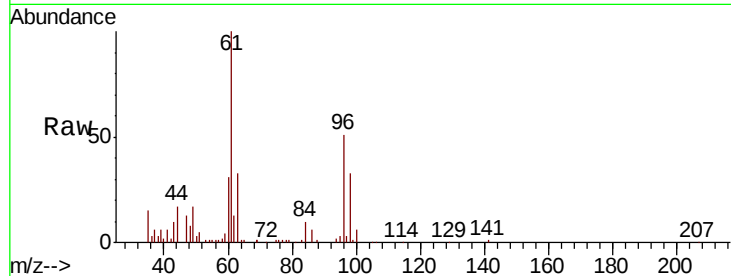
ClientSampleId :

VF1211SBS01

Tot Ion:	96	Resp:	26796
Ion	Ratio	Lower	Upper
96	100		
61	195.6	134.5	201.7
98	63.9	51.6	77.4

Manual Integrations
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12/12/2018 1:27:39 PM



#22

Diisopropyl ether

Concen: 22.692 ug/l

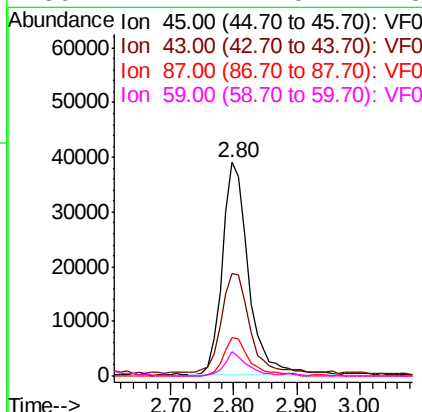
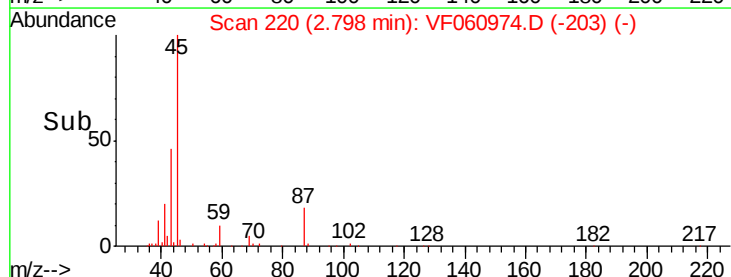
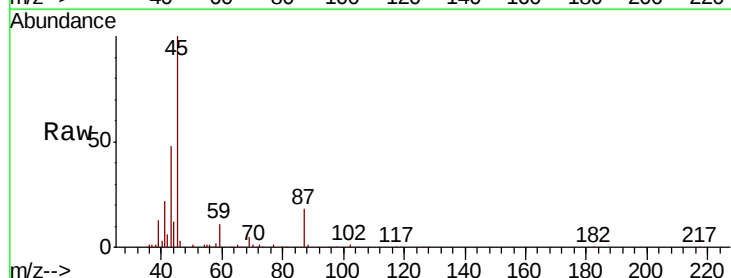
RT: 2.80 min Scan# 220

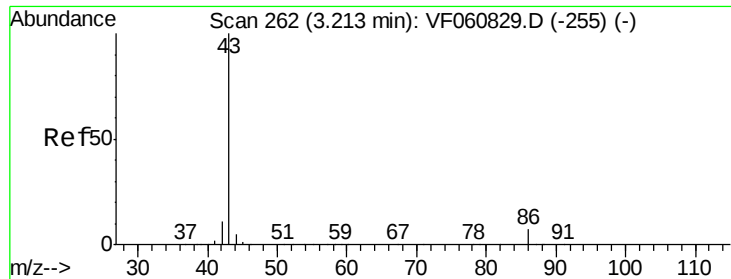
Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Tgt Ion:	45	Resp:	112971
Ion	Ratio	Lower	Upper
45	100		
43	47.7	41.0	61.6
87	17.8	14.6	22.0
59	11.2	7.5	11.3





#23

Vinyl Acetate

Concen: 124.404 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 43 Resp: 283105

Ion Ratio Lower Upper

43 100

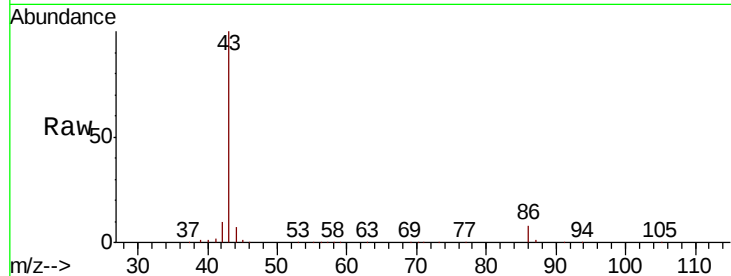
86 7.9 5.4 8.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

120000

100000

80000

60000

40000

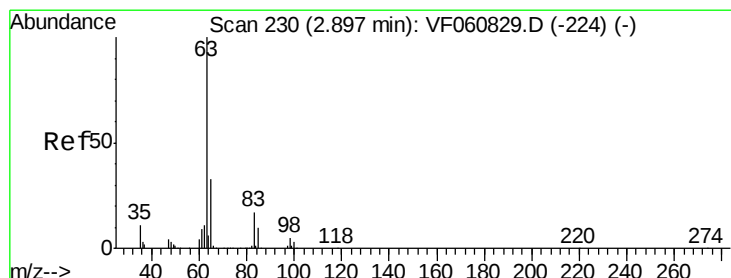
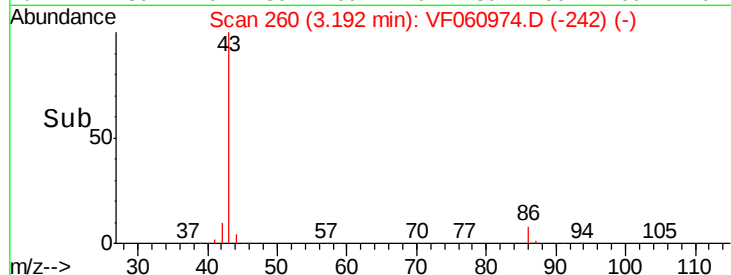
20000

0

3.19

3.00 3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 23.325 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

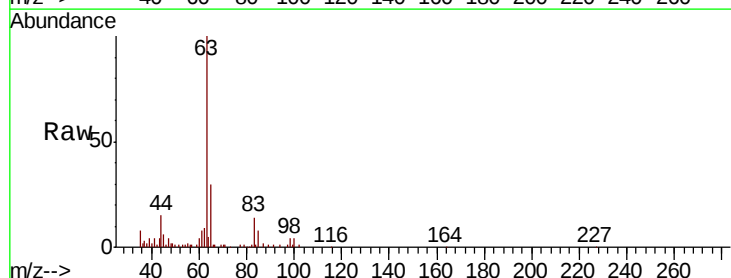
Tgt Ion: 63 Resp: 69087

Ion Ratio Lower Upper

63 100

98 4.3 2.7 8.1

100 3.9 1.5 4.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

30000

20000

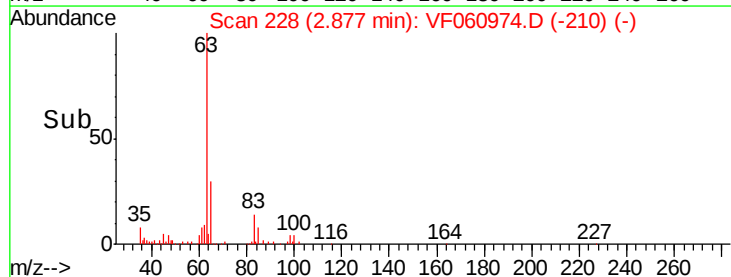
10000

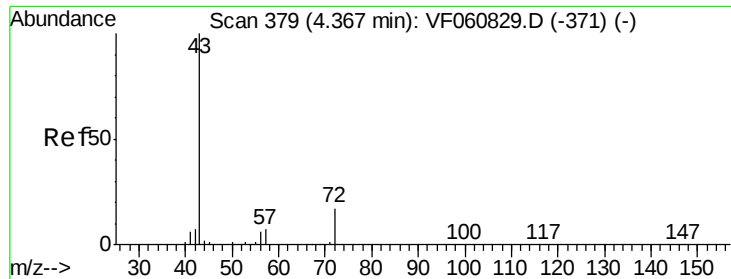
0

2.88

2.70 2.80 2.90 3.00

Time-->





#25

2-Butanone

Concen: 109.687 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 43 Resp: 76378

Ion Ratio Lower Upper

43 100

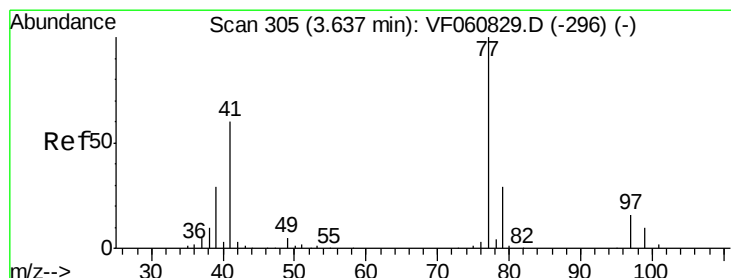
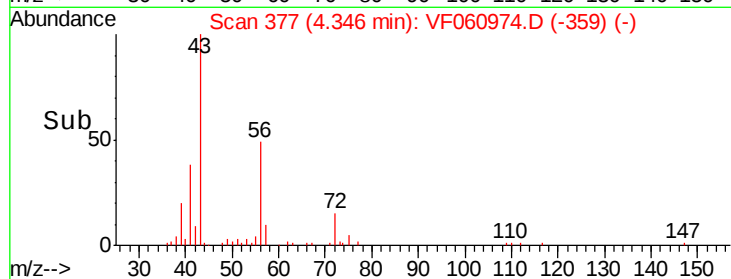
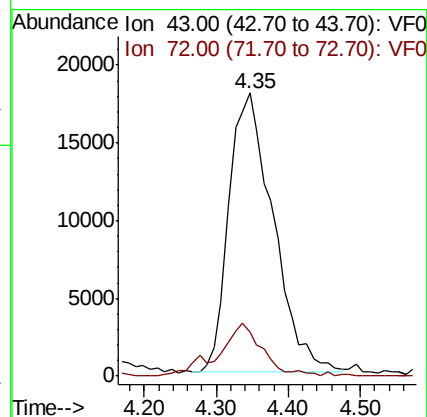
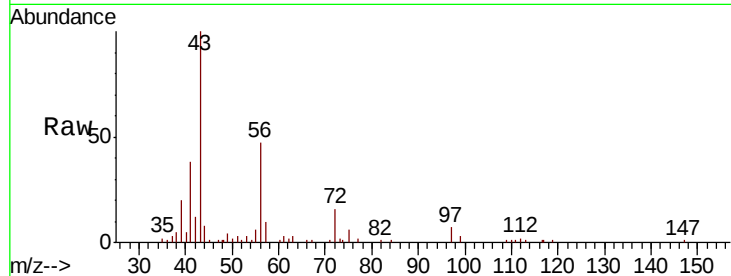
72 15.7 15.4 23.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 23.332 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.04 min

Lab File: VF060974.D

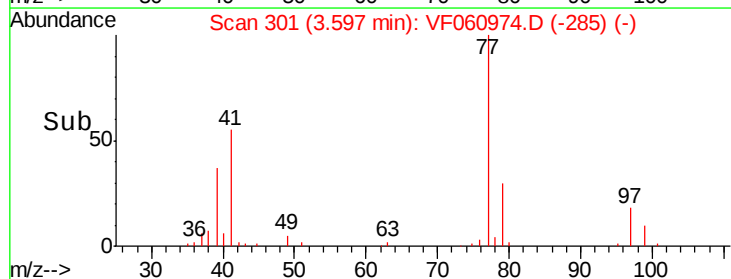
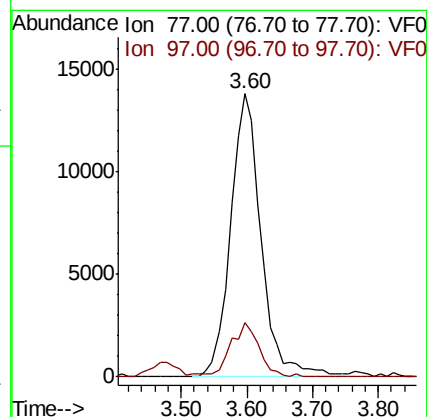
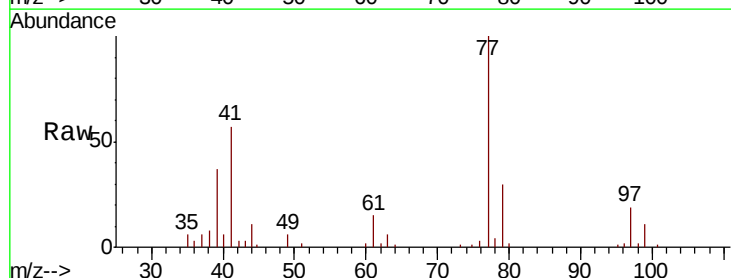
Acq: 11 Dec 2018 14:08

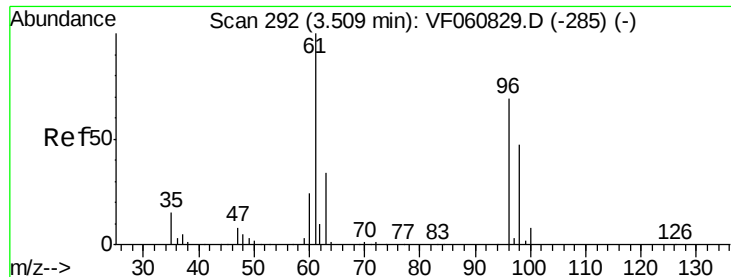
Tgt Ion: 77 Resp: 44803

Ion Ratio Lower Upper

77 100

97 19.1 8.6 25.8





#27

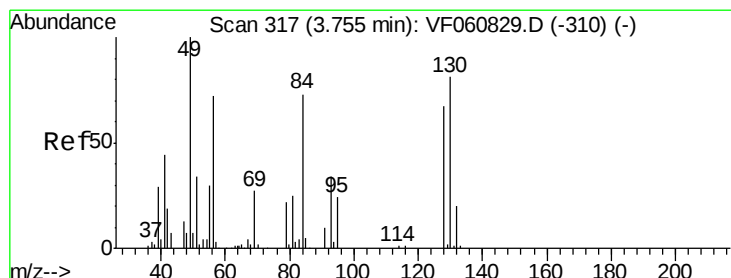
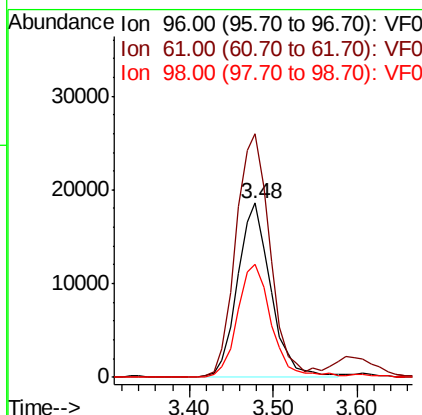
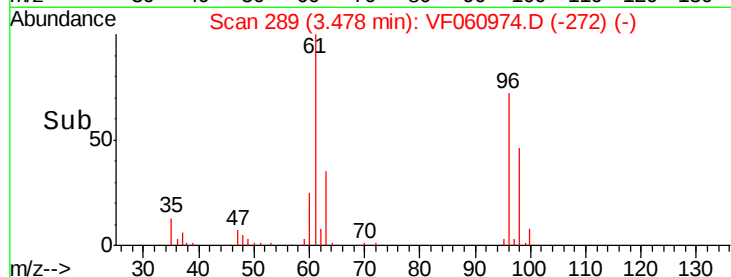
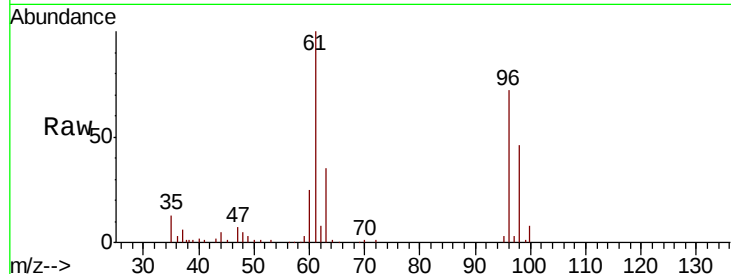
cis-1,2-Dichloroethene
Concen: 22.264 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.6	0.0	290.6
98	64.5	0.0	137.8

Manual Integrations
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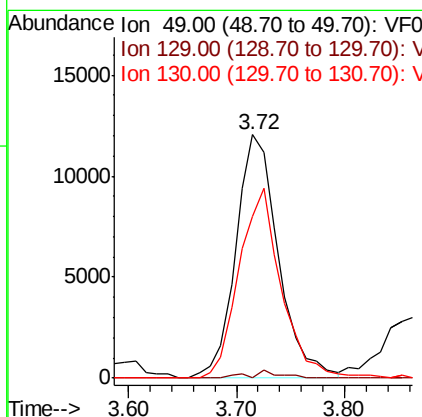
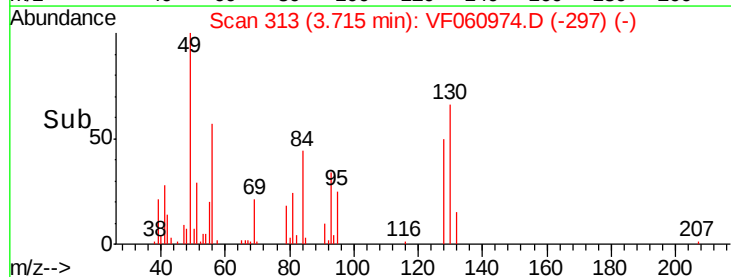
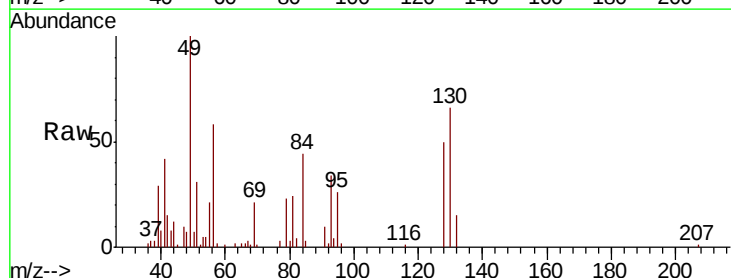
MMDadoda
12/12/2018 1:27:39 PM

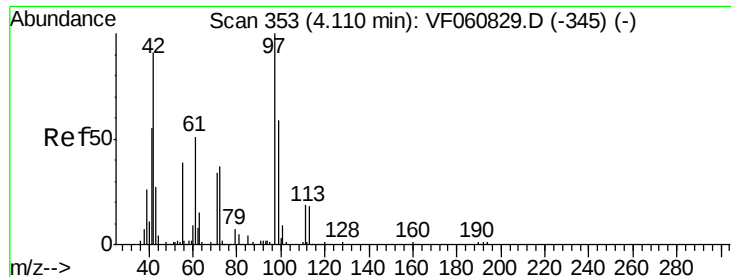


#28

Bromochloromethane
Concen: 23.146 ug/l
RT: 3.72 min Scan# 313
Delta R.T. -0.04 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	66.3	64.2	96.4





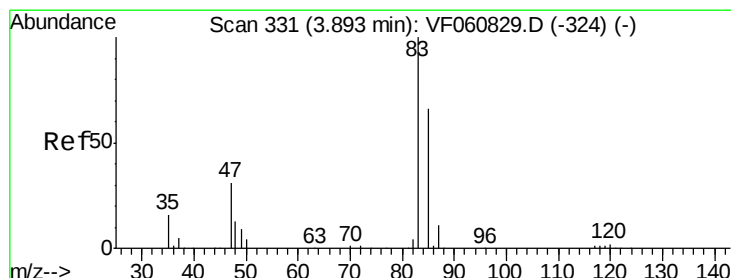
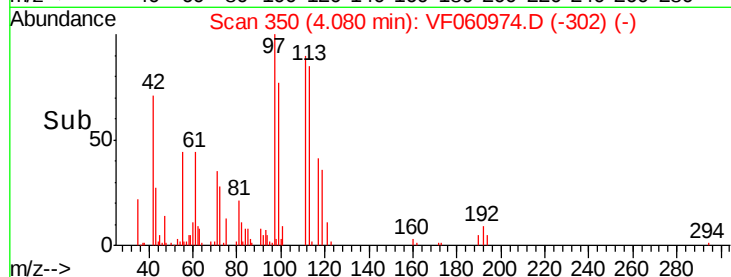
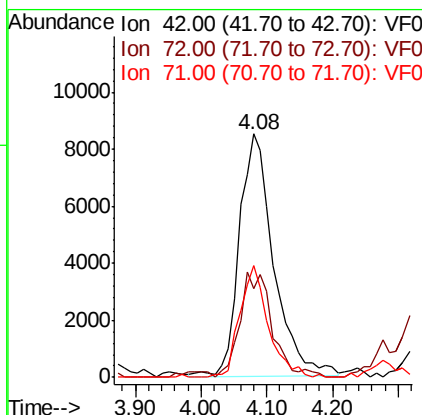
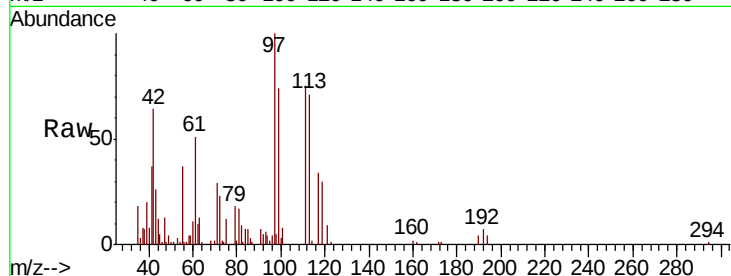
#29
Tetrahydrofuran
Concen: 105.982 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.4	31.9	47.9
71	38.3	28.7	43.1

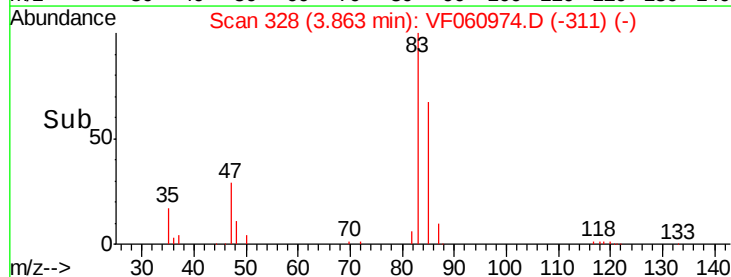
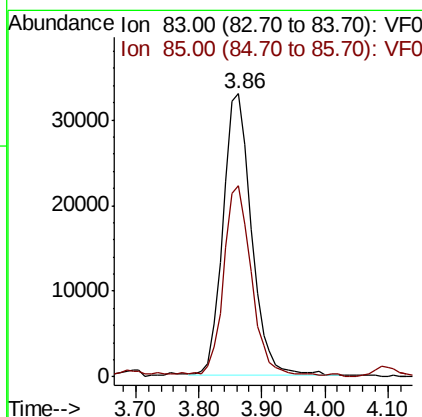
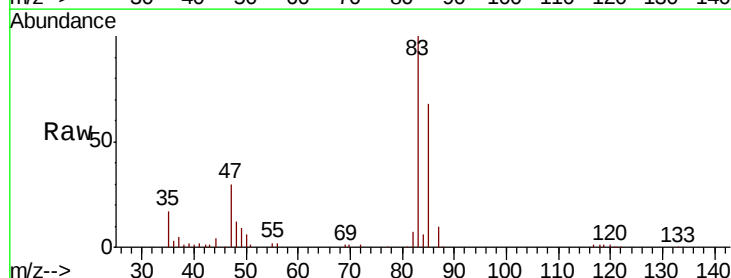
Manual Integrations
APPROVED

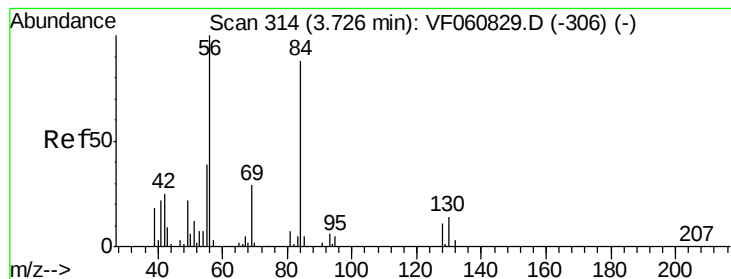
MMDadoda
12/12/2018 1:27:39 PM



#30
Chloroform
Concen: 22.673 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.7	53.4	80.2





#31

Cyclohexane

Concen: 23.791 ug/l

RT: 3.69 min Scan# 310

Delta R.T. -0.04 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

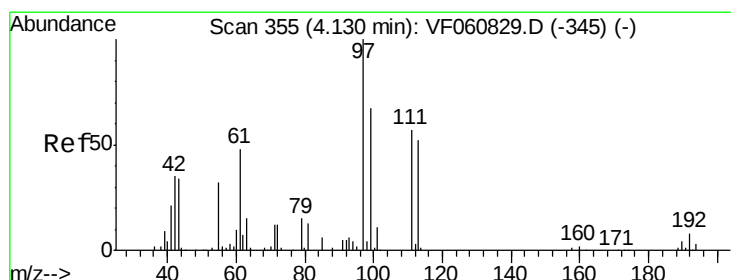
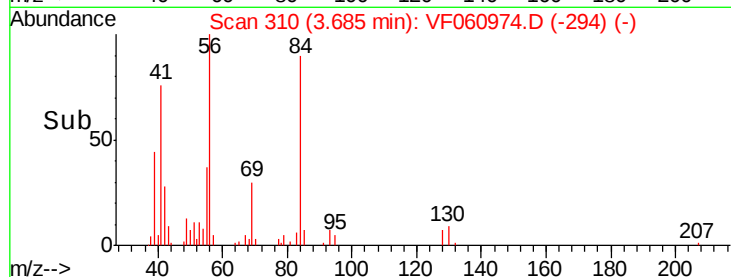
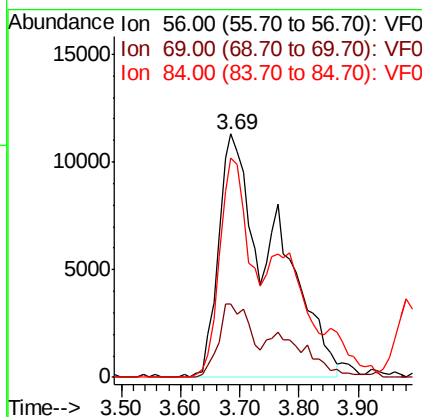
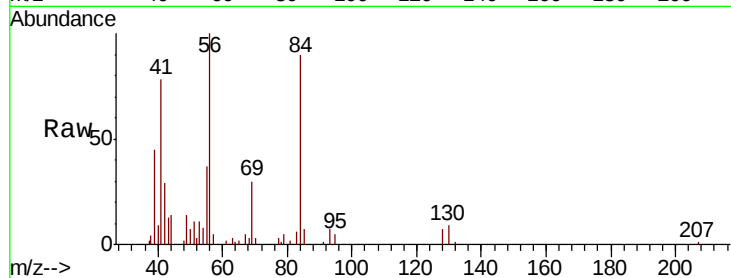
ClientSampleId :

VF1211SBS01

Tot Ion:	56	Resp:	73132
Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.0	34.4
84	90.1	70.4	105.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 18.744 ug/l

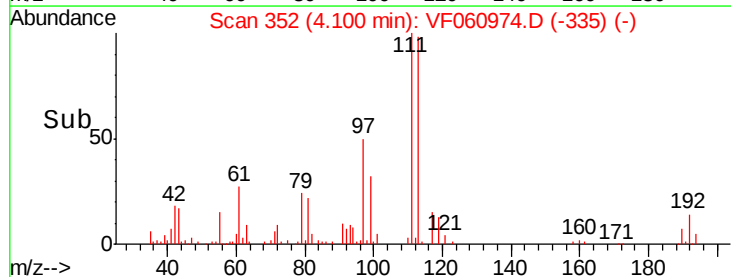
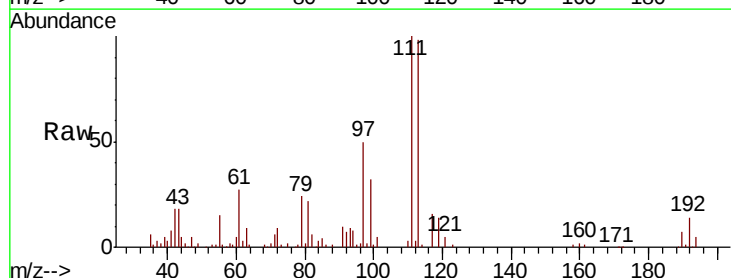
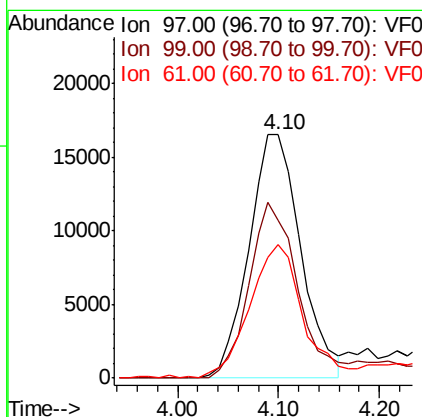
RT: 4.10 min Scan# 352

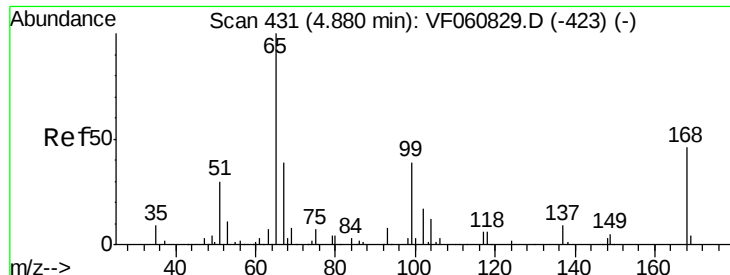
Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Tgt Ion:	97	Resp:	59260
Ion	Ratio	Lower	Upper
97	100		
99	64.6	53.5	80.3
61	54.9	38.6	58.0





#33

1,2-Dichloroethane-d4

Concen: 54.009 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 65 Resp: 117909

Ion Ratio Lower Upper

65 100

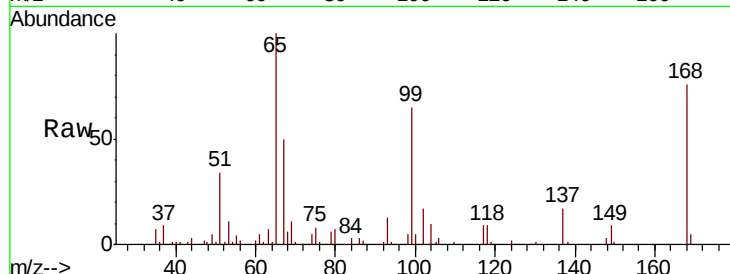
67 49.6 0.0 96.4

Manual Integrations

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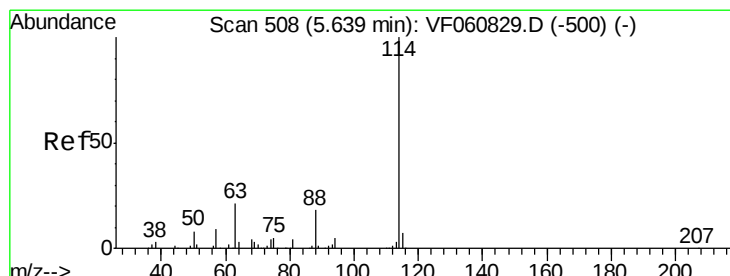
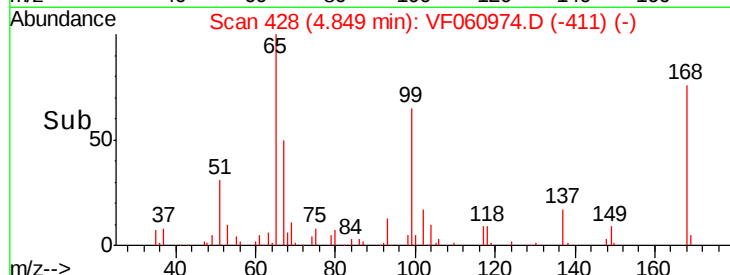
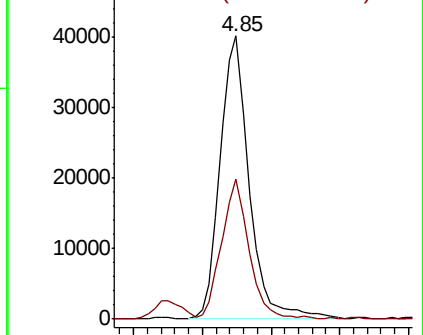
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

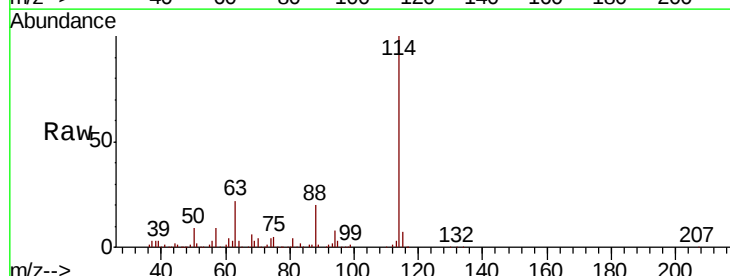
Tgt Ion: 114 Resp: 313769

Ion Ratio Lower Upper

114 100

63 22.2 0.0 41.6

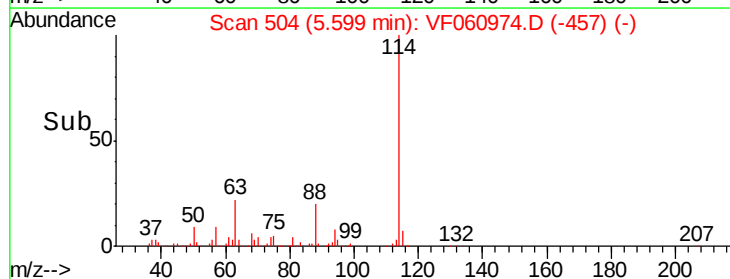
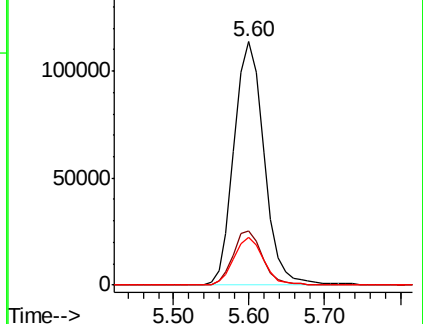
88 19.8 0.0 36.6

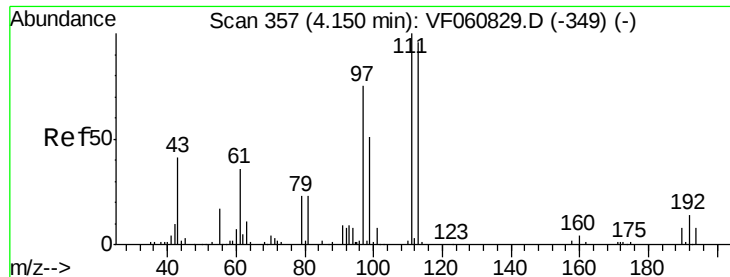


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





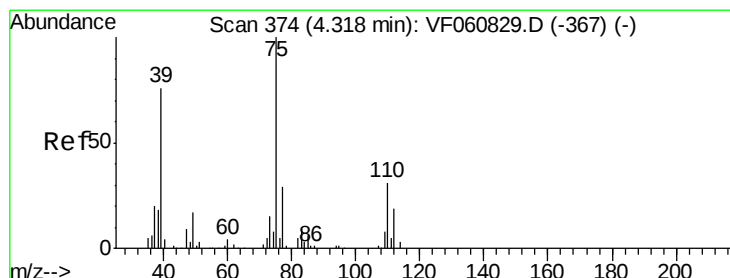
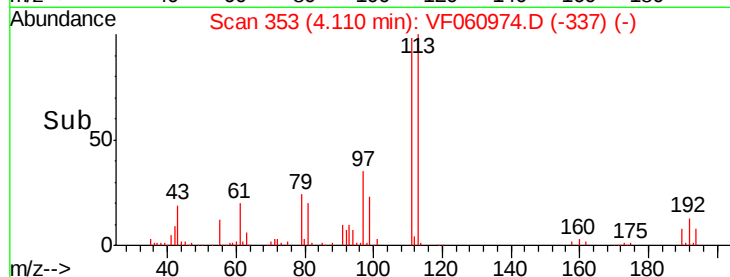
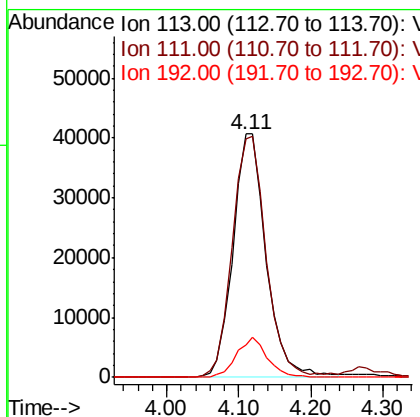
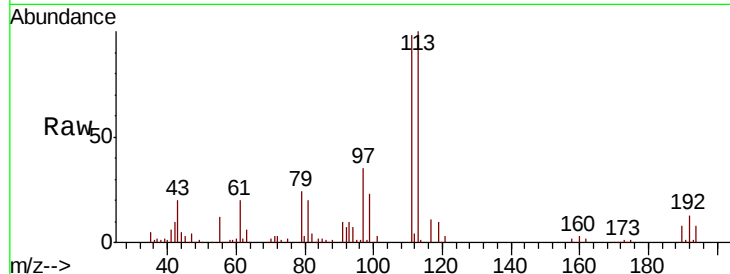
#35
Dibromofluoromethane
Concen: 52.312 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	130215		
111	98.2	83.0	124.6	
192	13.2	12.3	18.5	

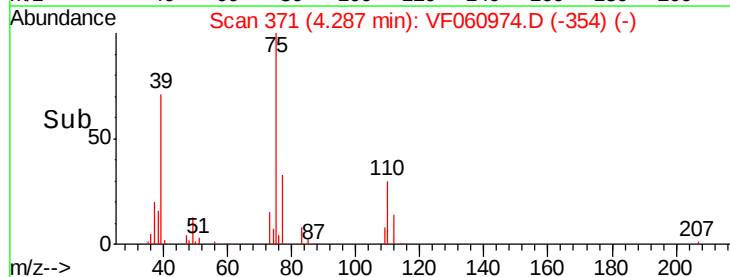
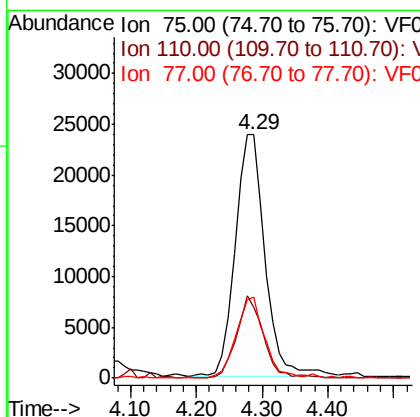
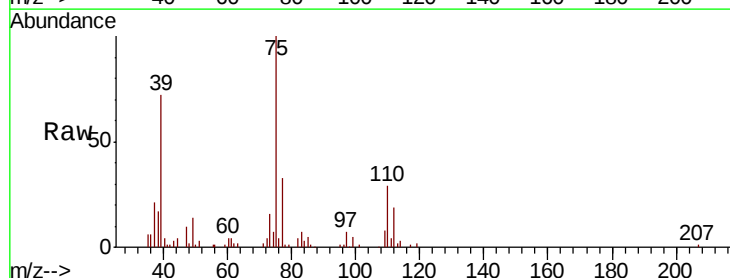
Manual Integrations
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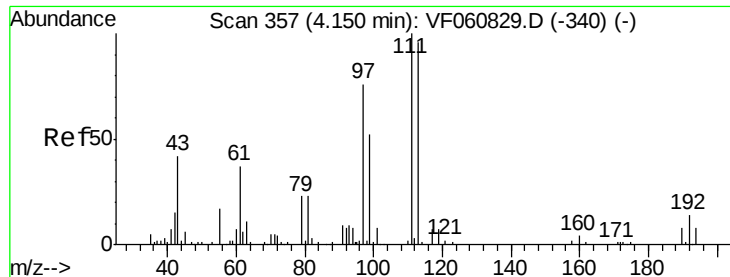
MMDadoda
12/12/2018 1:27:39 PM



#36
1,1-Dichloropropene
Concen: 21.642 ug/l
RT: 4.29 min Scan# 371
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	75319		
110	29.2	15.6	46.8	
77	33.1	23.4	35.0	





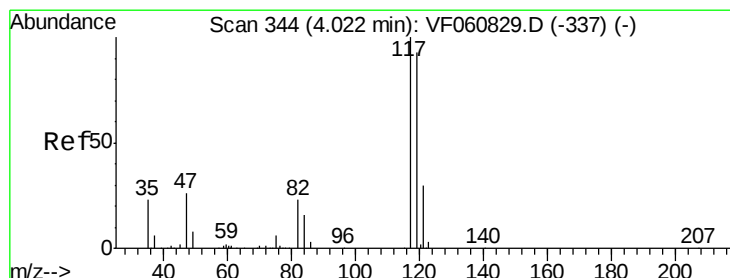
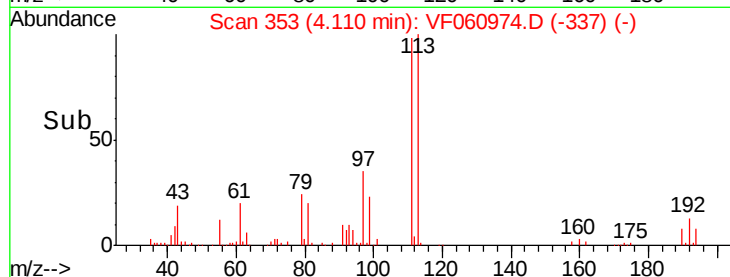
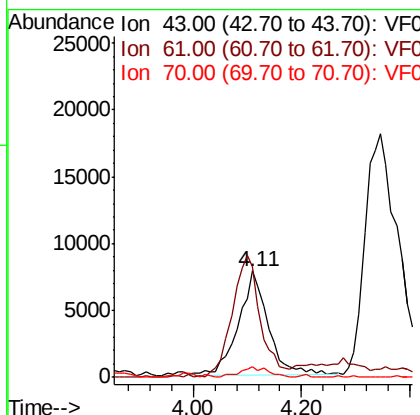
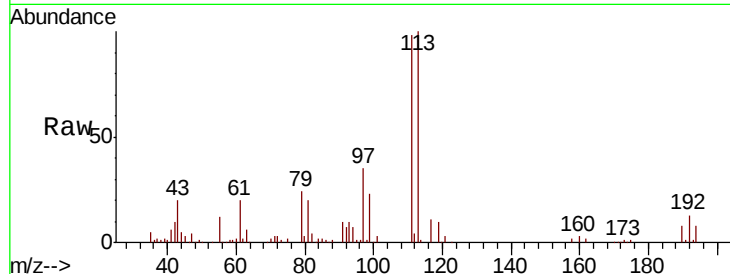
#37
Ethyl Acetate
Concen: 20.676 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper
29241	100	103.3	9.6			
		68.6	9.0			
			13.4			

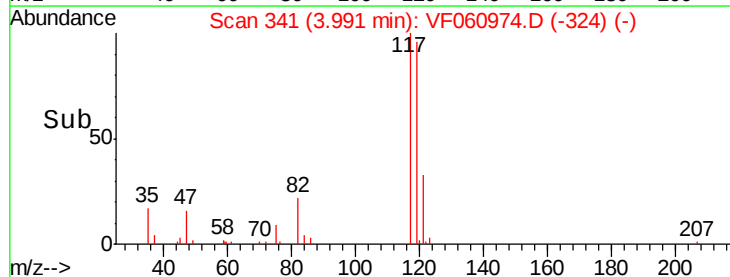
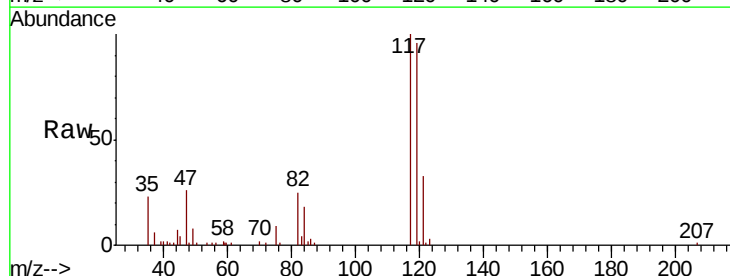
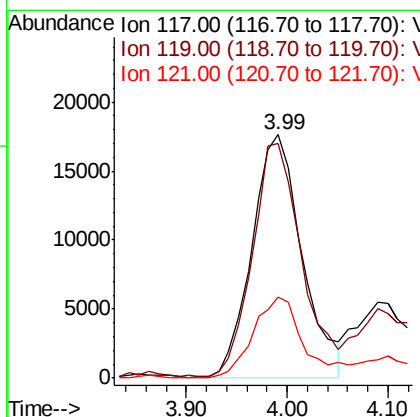
Manual Integrations
APPROVED

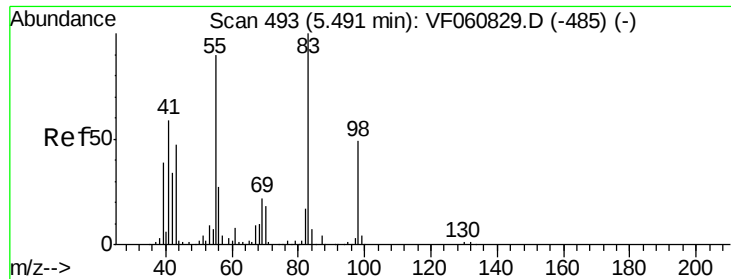
MMDadoda
12/12/2018 1:27:39 PM



#38
Carbon Tetrachloride
Concen: 19.952 ug/l
RT: 3.99 min Scan# 341
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	117	119	121	Ratio	Lower	Upper
61329	100	96.2	34.1			
		74.4	23.5			
			35.3			





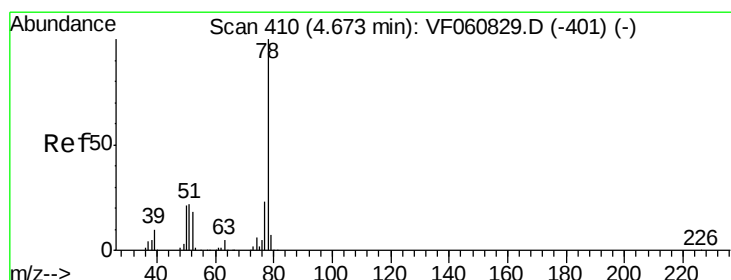
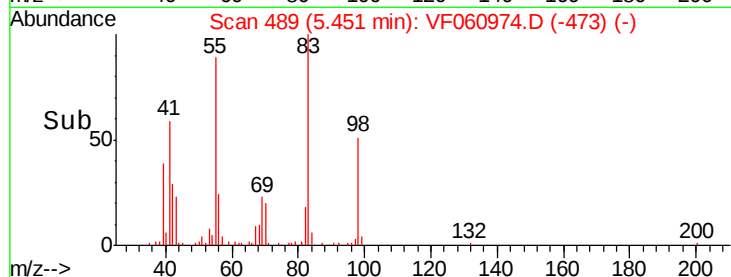
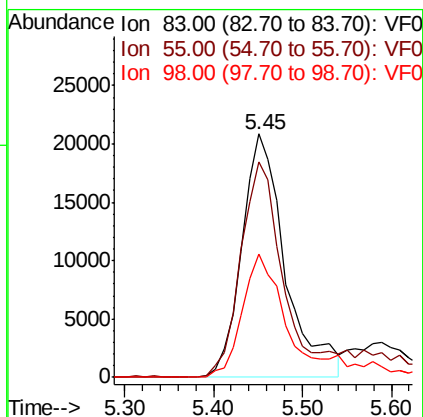
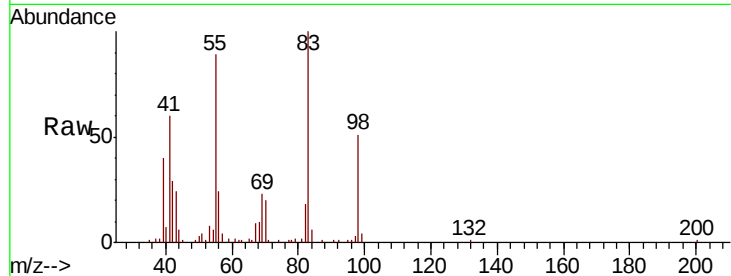
#39
Methvlcvclohexane
Concen: 19.298 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.04 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	88.5	72.1	108.1
98	50.8	39.1	58.7

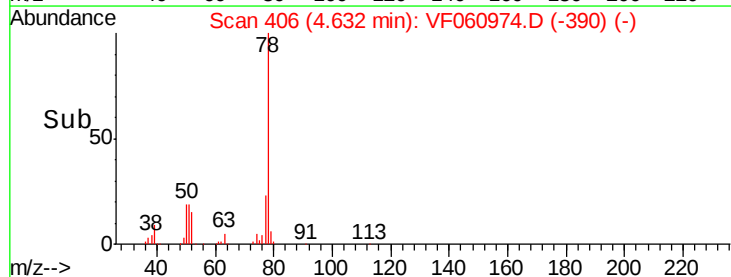
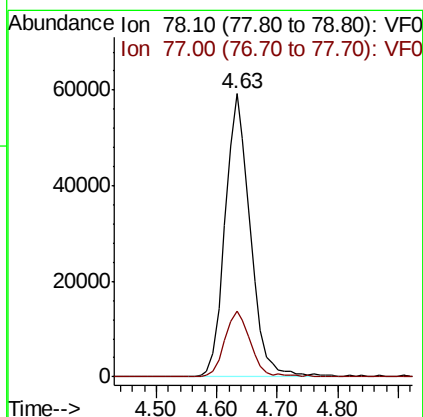
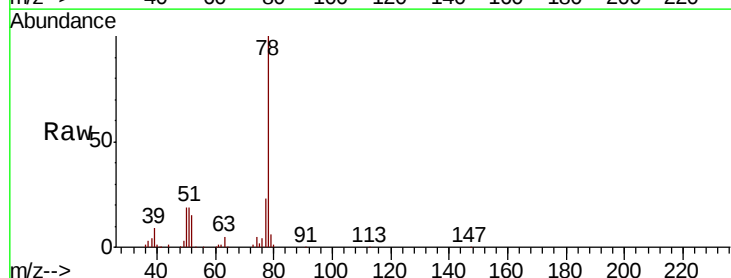
Manual Integrations
APPROVED

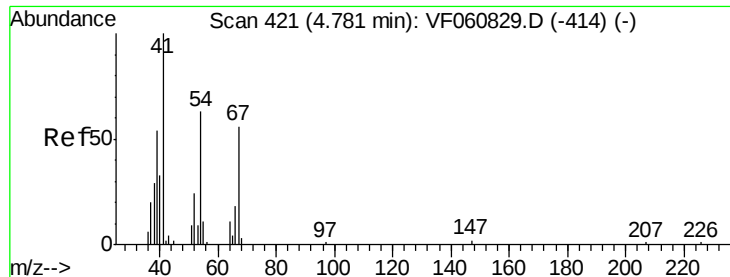
MMDadoda
12/12/2018 1:27:39 PM



#40
Benzene
Concen: 22.255 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1





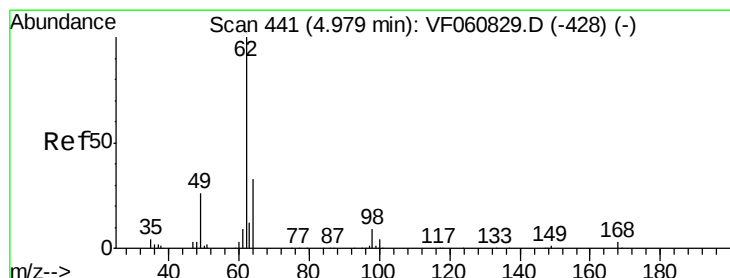
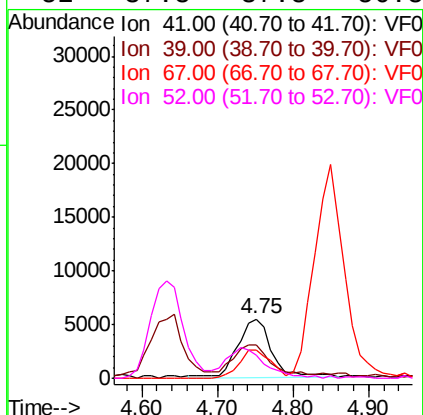
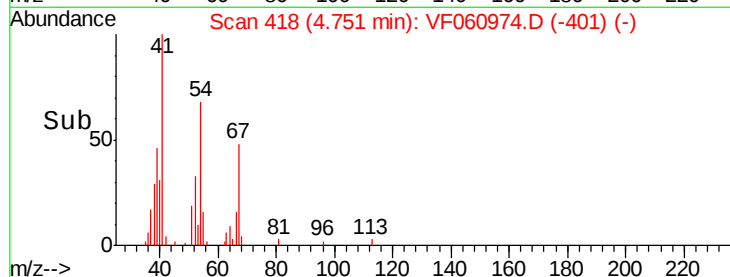
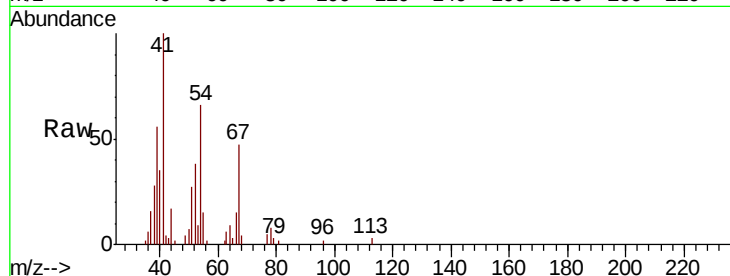
#41
Methacrylonitrile
Concen: 20.505 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	56.0	53.0	79.6
67	46.8	43.8	65.6
52	37.8	37.8	56.8

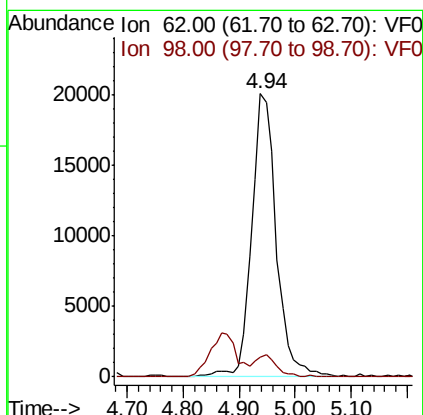
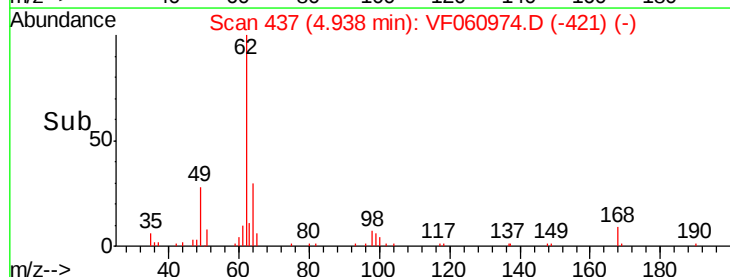
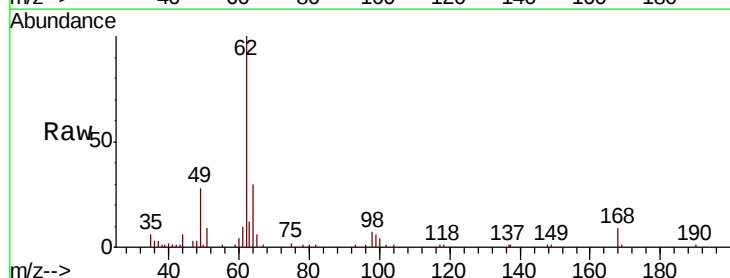
Manual Integrations
APPROVED

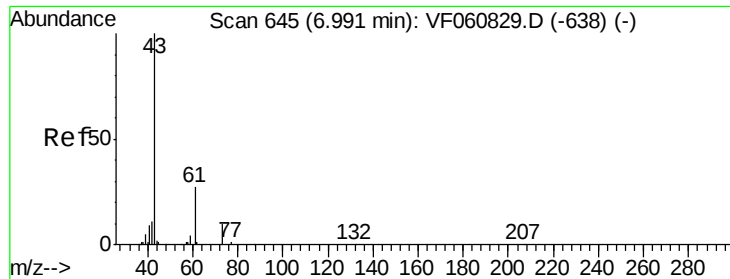
MMDadoda
12/12/2018 1:27:39 PM



#42
1,2-Dichloroethane
Concen: 21.811 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.8	0.0	17.2





#43

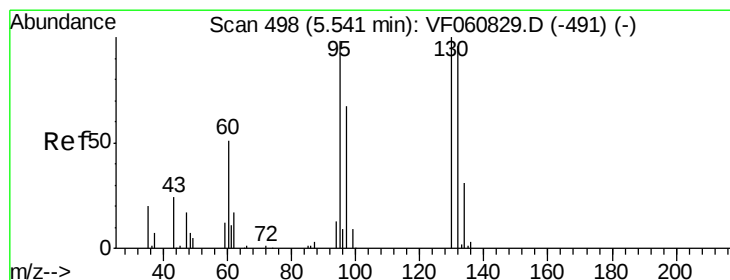
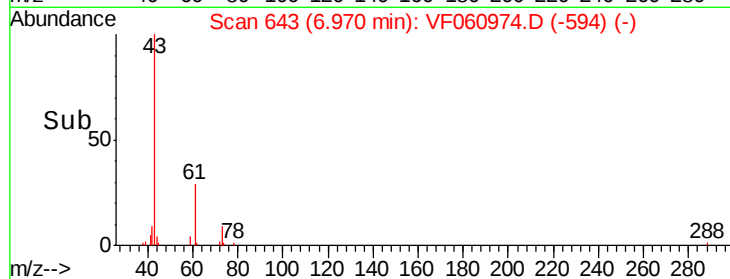
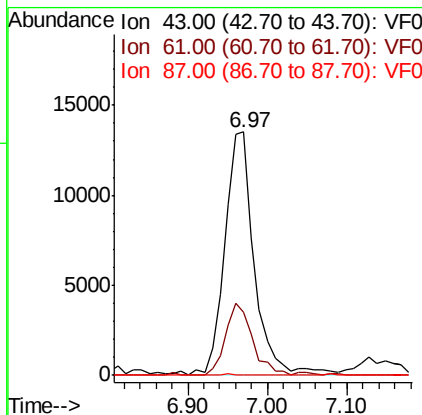
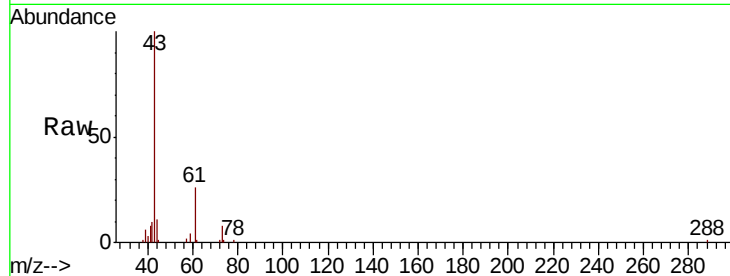
Isopropyl Acetate
 Concen: 18.464 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.02 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1211SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.0	21.4	32.0
87	0.0	0.2	0.4

Manual Integrations
 APPROVED

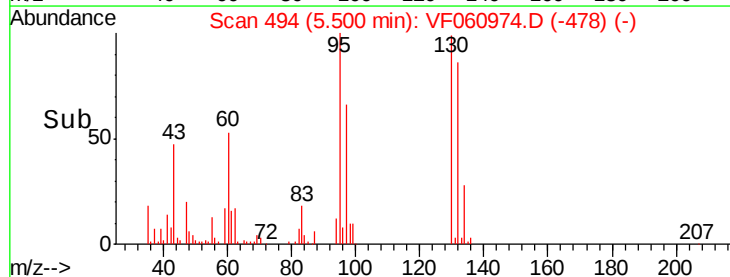
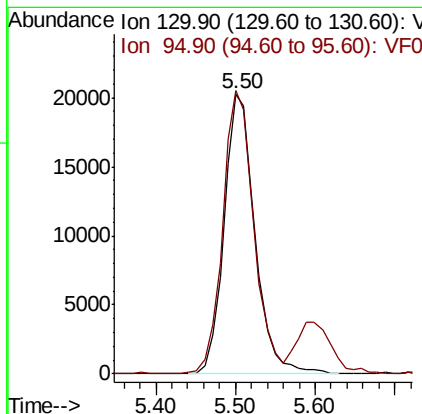
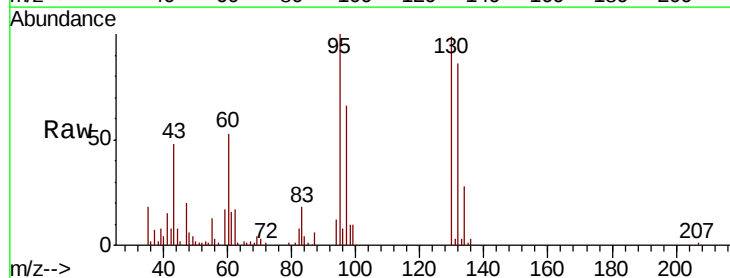
MMDadoda
 12/12/2018 1:27:39 PM

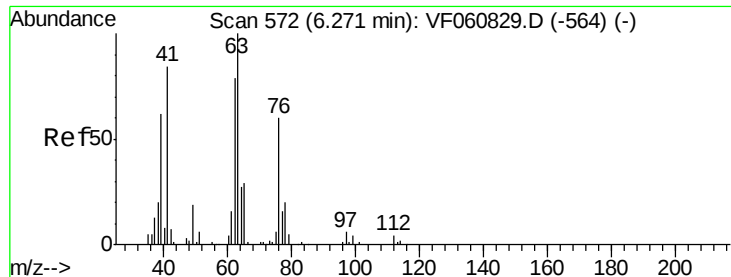


#44

Trichloroethene
 Concen: 21.781 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.04 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	195.6





#45

1,2-Dichloropropane

Concen: 21.209 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 63 Resp: 42350

Ion Ratio Lower Upper

63 100

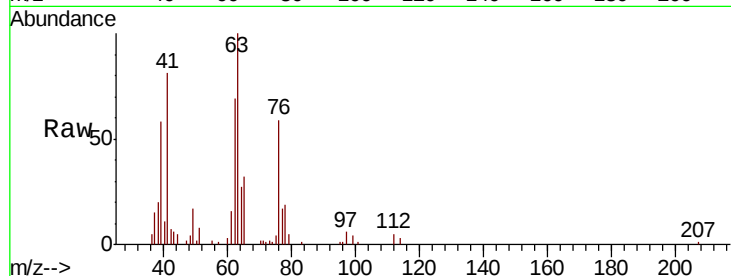
65 32.4 23.2 34.8

Manual Integrations

APPROVED

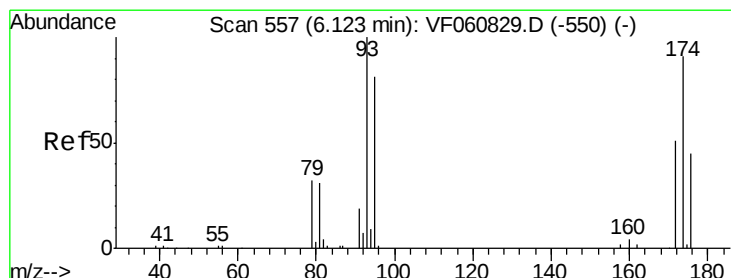
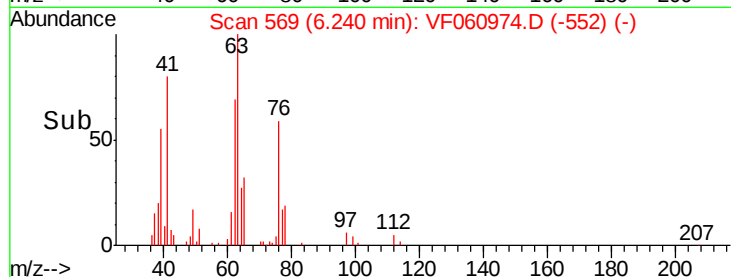
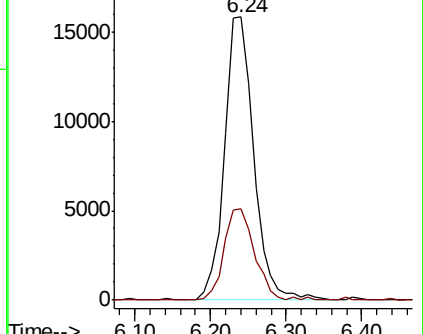
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 20.776 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

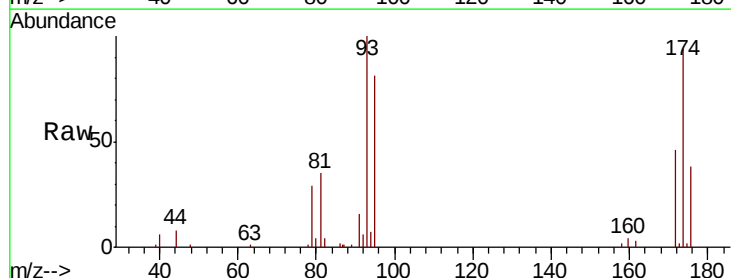
Tgt Ion: 93 Resp: 28142

Ion Ratio Lower Upper

93 100

95 81.4 64.7 97.1

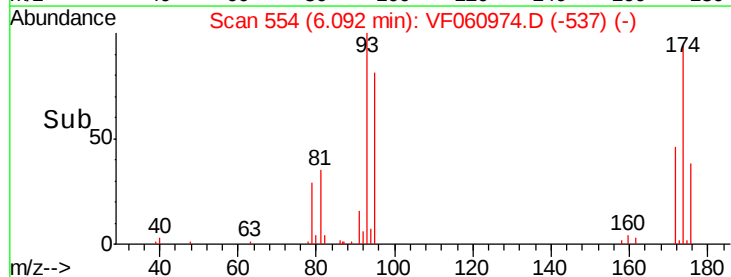
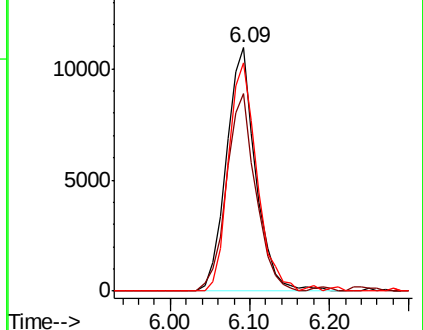
174 93.9 73.0 109.6

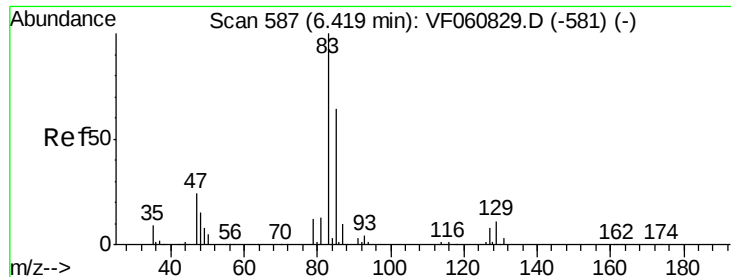


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 20.585 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

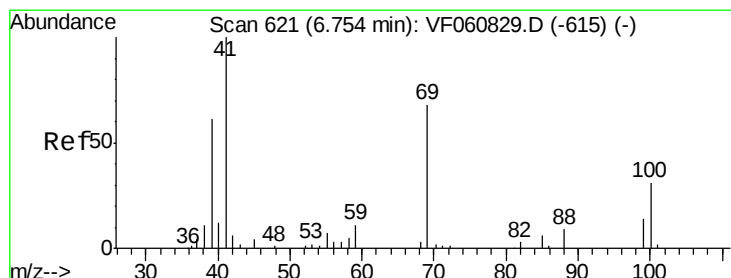
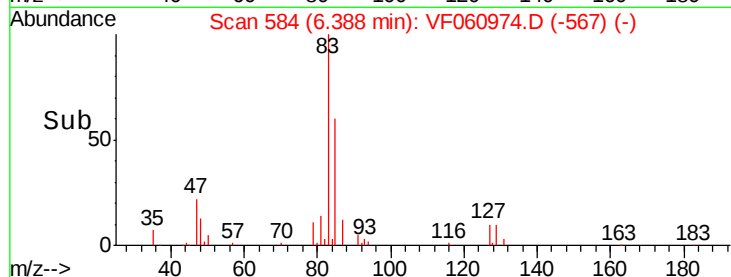
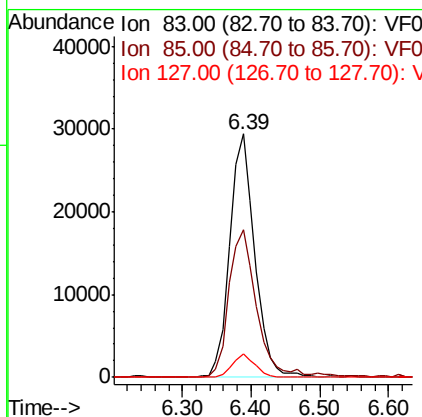
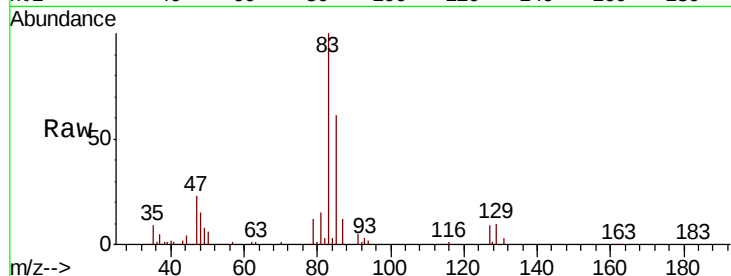
ClientSampleId :

VF1211SBS01

Tot Ion:	83	Resp:	74061
Ion	Ratio	Lower	Upper
83	100		
85	60.6	51.1	76.7
127	9.5	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.693 ug/l

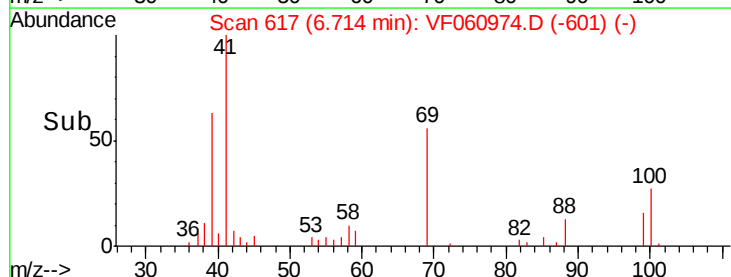
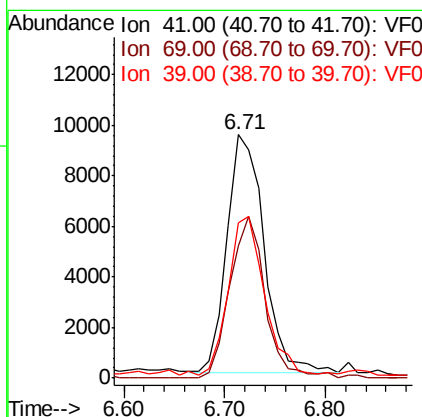
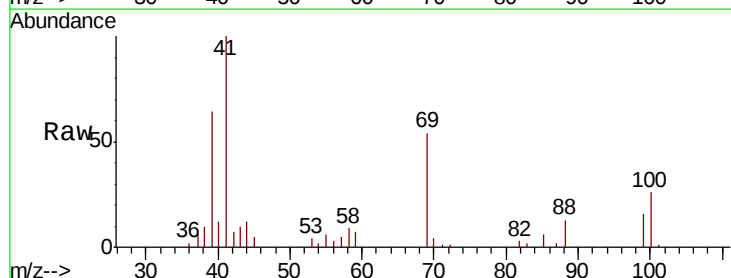
RT: 6.71 min Scan# 617

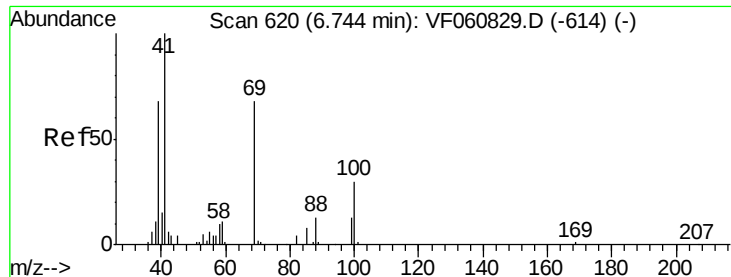
Delta R.T. -0.04 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Tgt Ion:	41	Resp:	23930
Ion	Ratio	Lower	Upper
41	100		
69	54.2	53.9	80.9
39	63.6	49.0	73.6





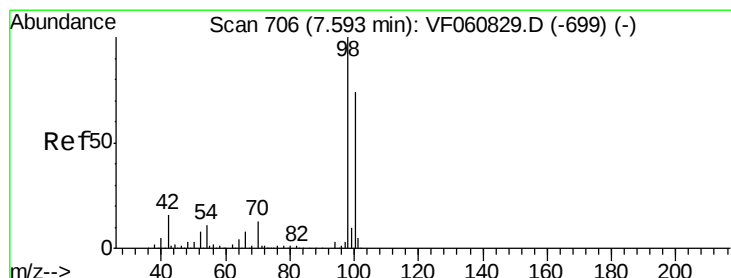
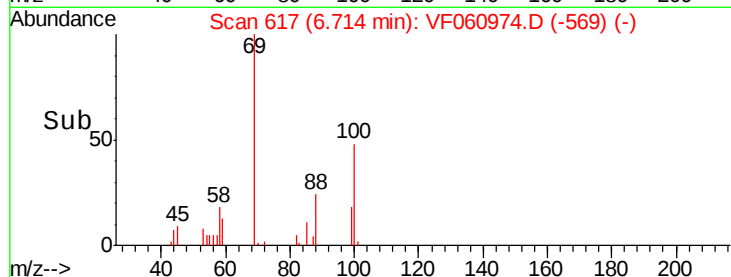
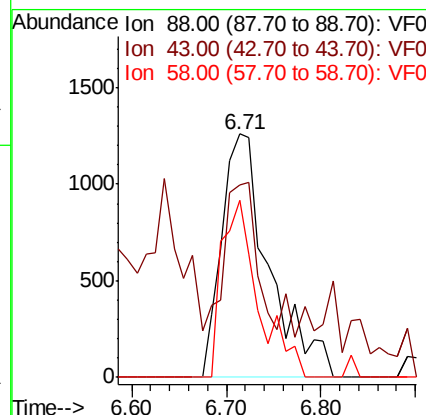
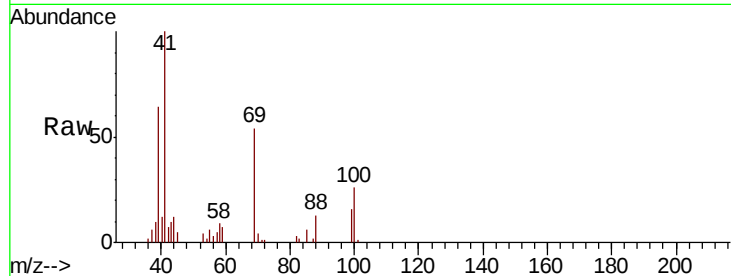
#49
1,4-Dioxane
Concen: 470.162 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	78.8	42.0	63.0#
58	72.6	61.8	92.8

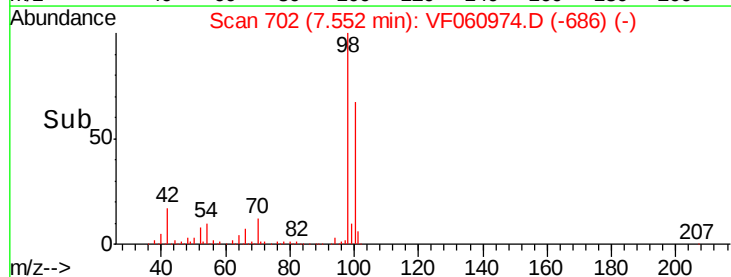
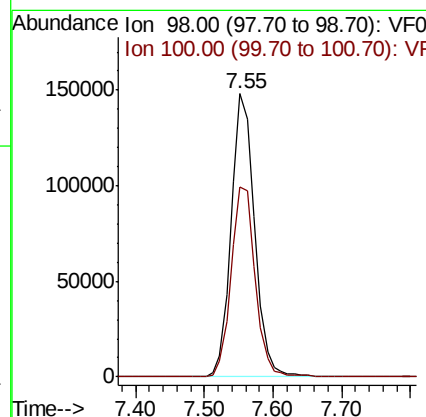
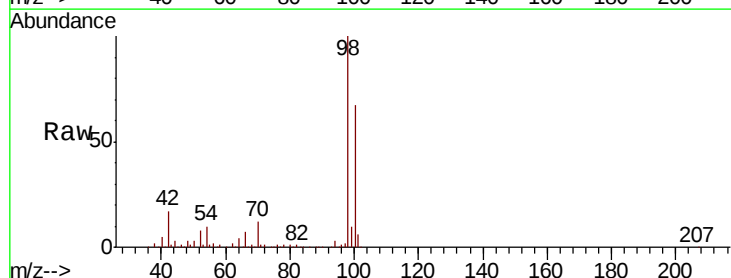
Manual Integrations
APPROVED

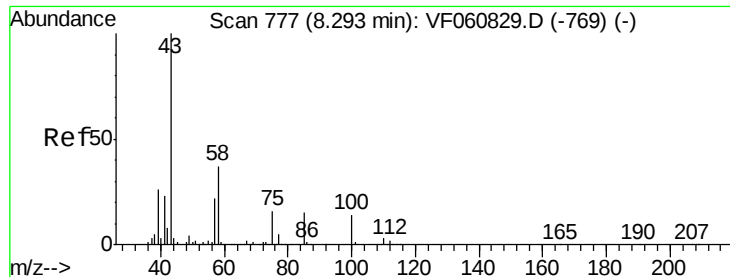
MMDadoda
12/12/2018 1:27:39 PM



#50
Toluene-d8
Concen: 47.641 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.04 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.3	59.3	88.9





#51

4-Methyl-2-Pentanone

Concen: 99.314 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 43 Resp: 129523

Ion Ratio Lower Upper

43 100

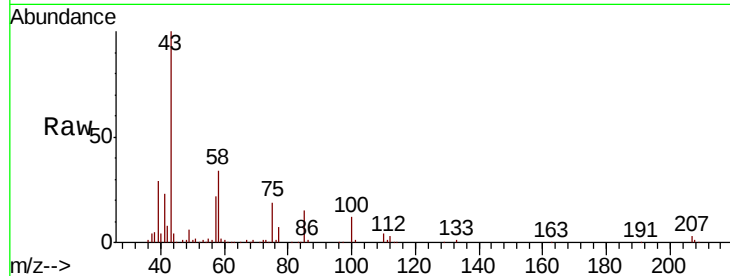
58 34.2 29.7 44.5

Manual Integrations

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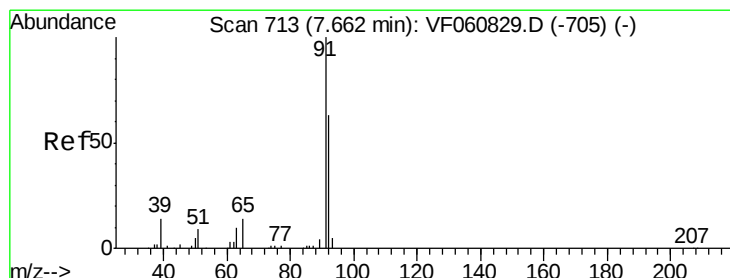
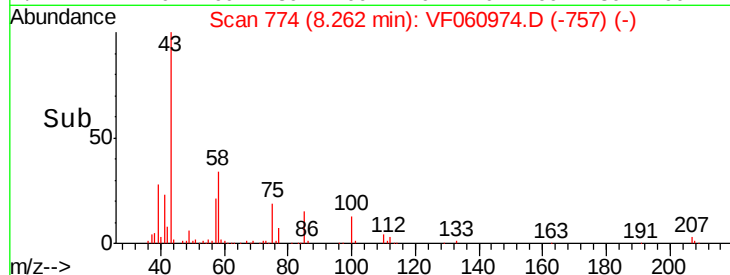
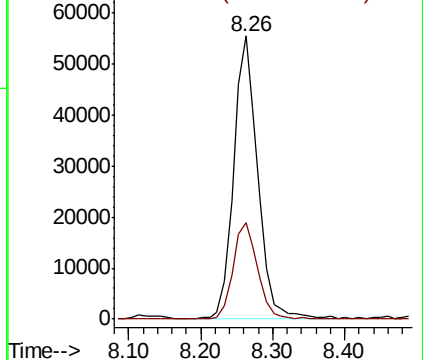
MMDadoda

12/12/2018 1:27:39 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.875 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF060974.D

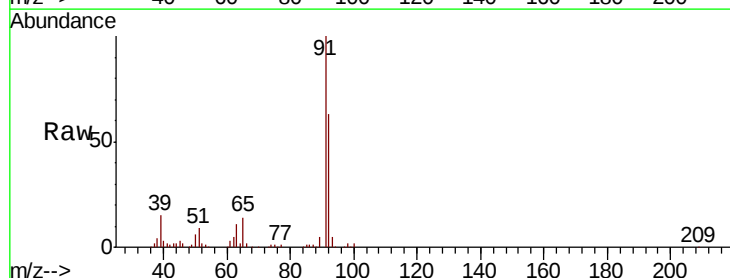
Acq: 11 Dec 2018 14:08

Tgt Ion: 92 Resp: 107334

Ion Ratio Lower Upper

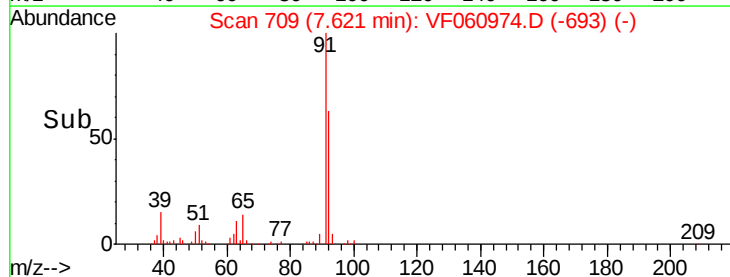
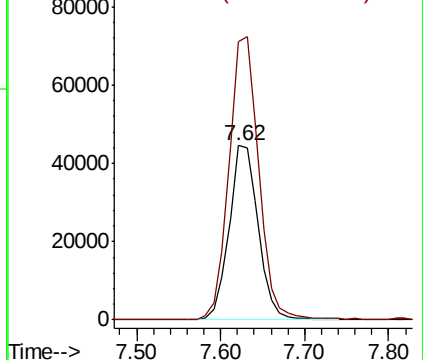
92 100

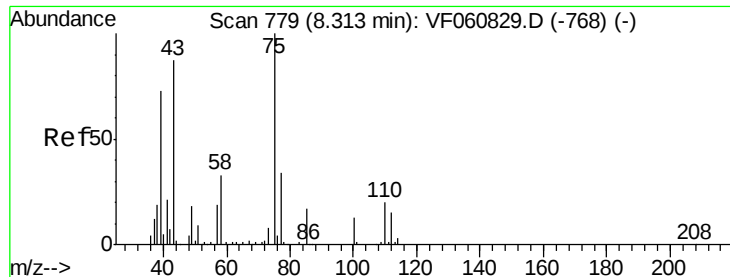
91 159.5 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 19.650 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 75 Resp: 57505

Ion Ratio Lower Upper

75 100

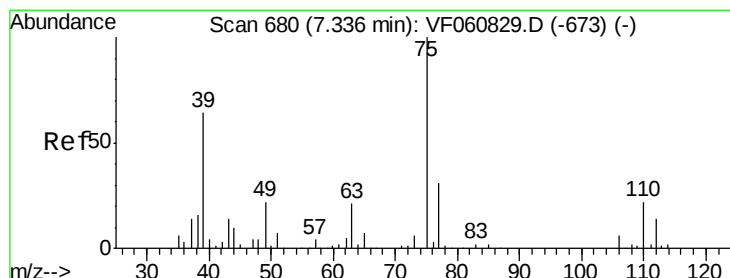
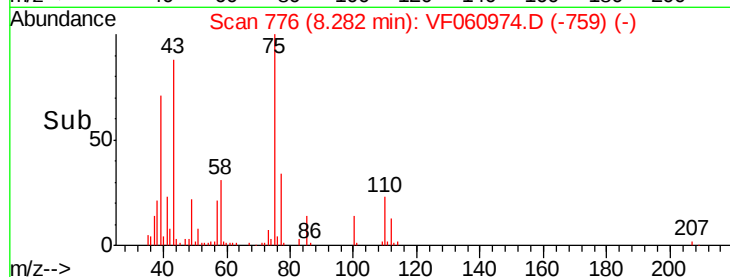
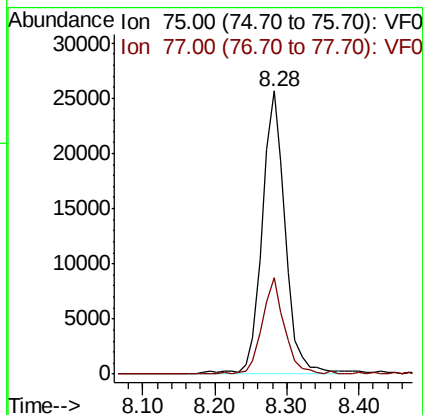
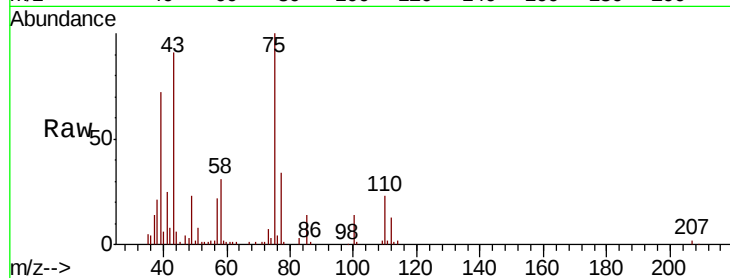
77 34.2 27.4 41.2

Manual Integrations

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12/12/2018 1:27:39 PM



#54

cis-1,3-Dichloropropene

Concen: 21.110 ug/l

RT: 7.31 min Scan# 677

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

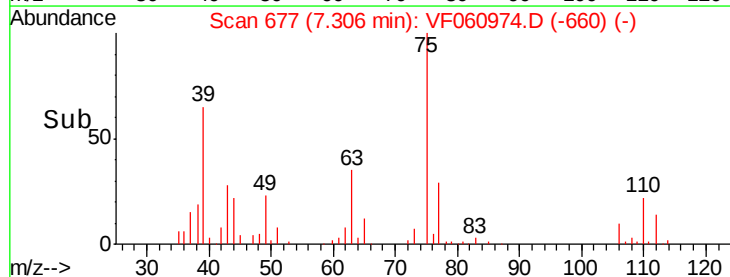
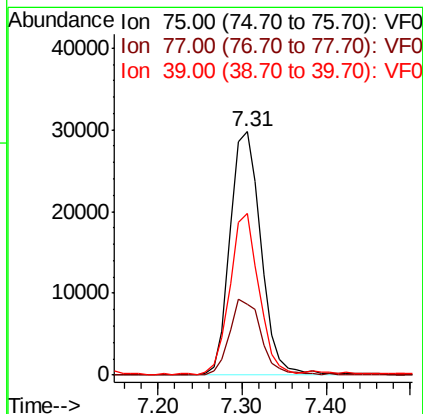
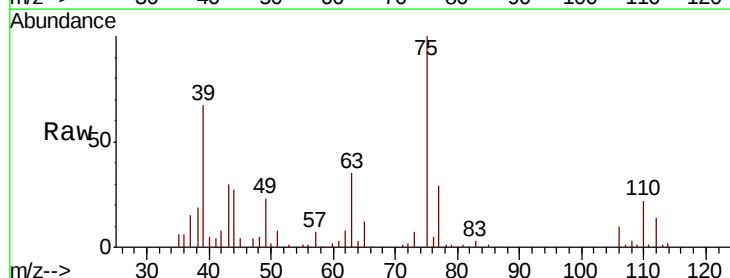
Tgt Ion: 75 Resp: 76478

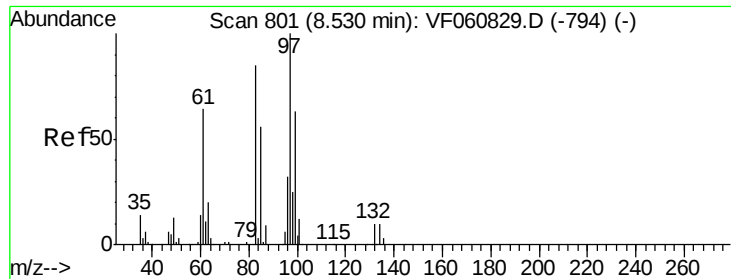
Ion Ratio Lower Upper

75 100

77 29.3 25.0 37.6

39 66.7 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 20.075 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.04 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

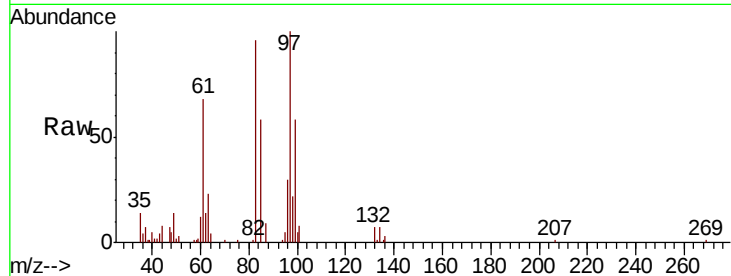
ClientSampleId :

VF1211SBS01

Tot Ion:	97	Resp:	31591
Ion	Ratio	Lower	Upper
97	100		
83	96.4	67.8	101.6
85	58.2	45.0	67.6
99	57.9	50.5	75.7

Manual Integrations
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12/12/2018 1:27:39 PM



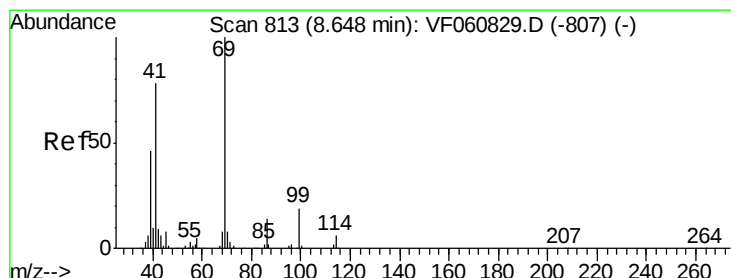
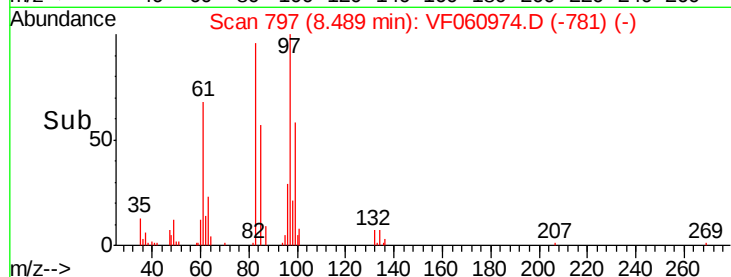
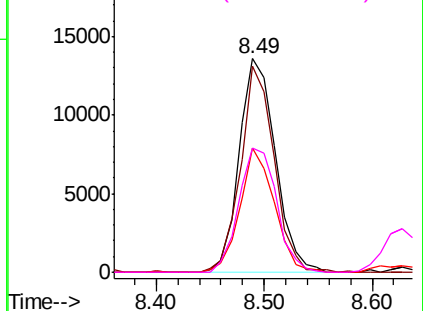
Abundance

Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 18.337 ug/l

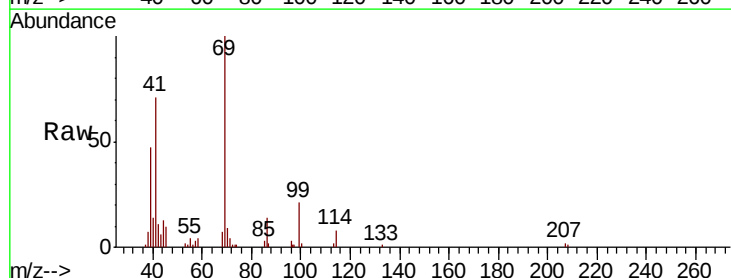
RT: 8.63 min Scan# 811

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Tgt Ion:	69	Resp:	32056
Ion	Ratio	Lower	Upper
69	100		
41	71.3	62.6	94.0
39	46.7	37.8	56.6

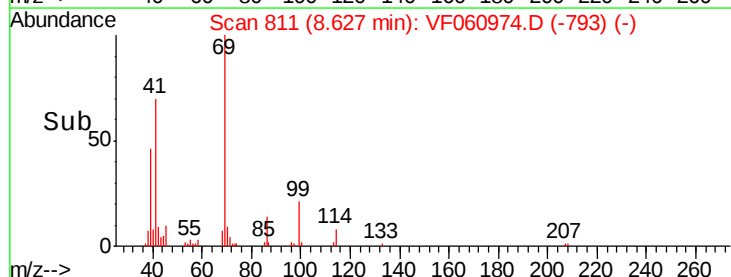
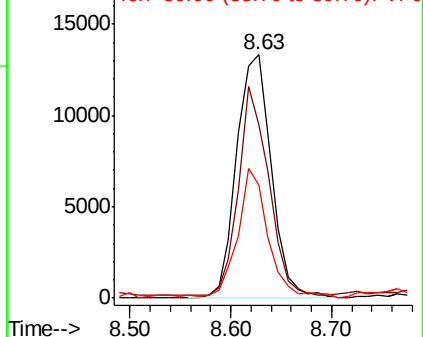


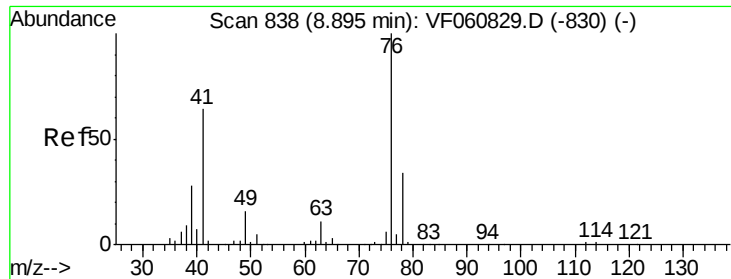
Abundance

Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





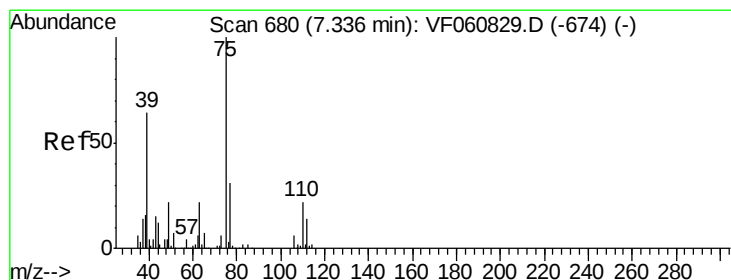
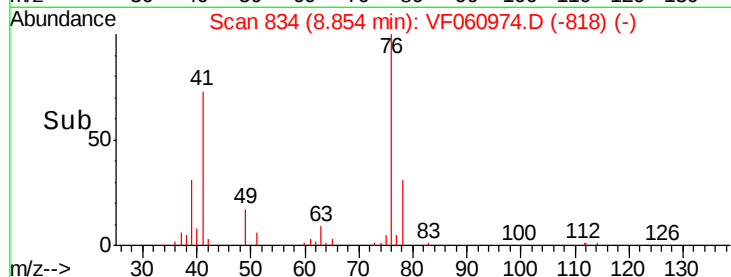
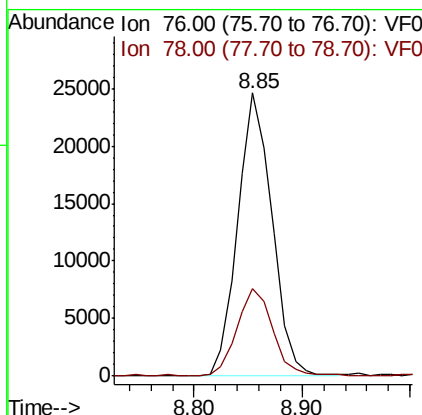
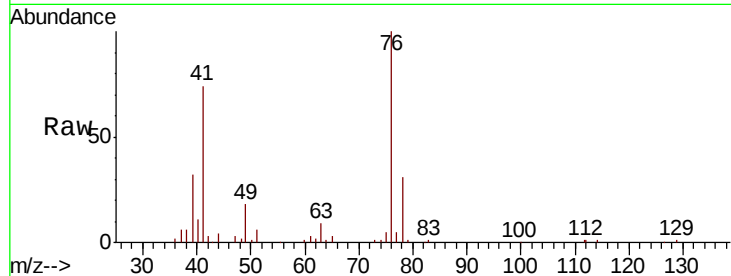
#57
 1,3-Dichloropropane
 Concen: 19.709 ug/l
 RT: 8.85 min Scan# 834
 Delta R.T. -0.04 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1211SBS01

Tot Ion: 76 Resp: 54263
 Ion Ratio Lower Upper
 76 100
 78 31.1 27.0 40.4

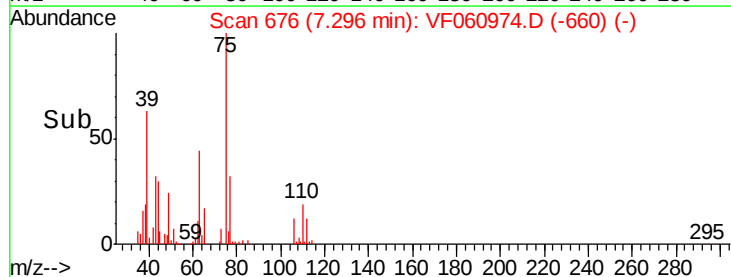
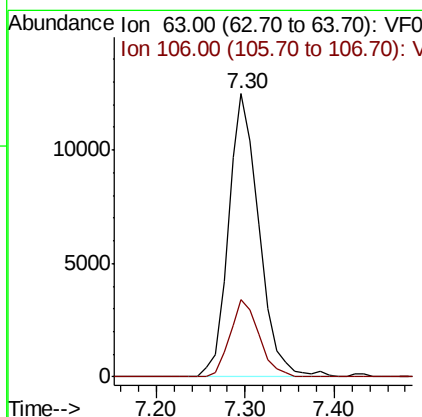
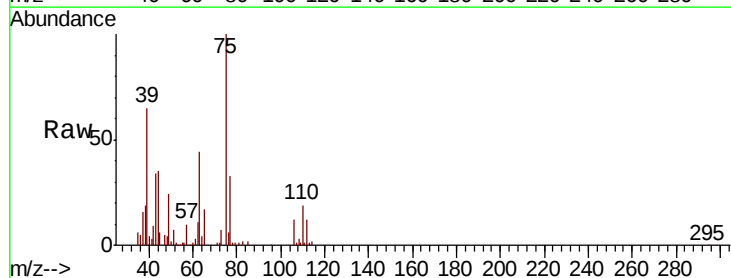
Manual Integrations
 APPROVED

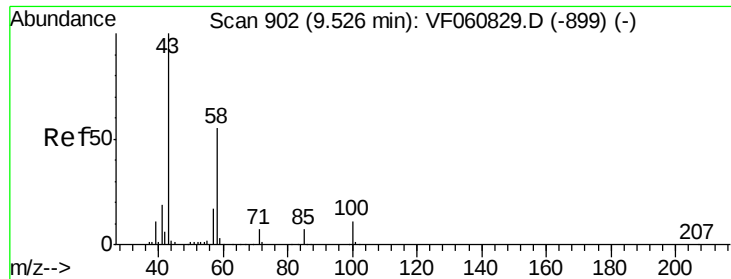
MMDadoda
 12/12/2018 1:27:39 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 167.499 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. -0.04 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Tgt Ion: 63 Resp: 29950
 Ion Ratio Lower Upper
 63 100
 106 27.4 23.0 34.6





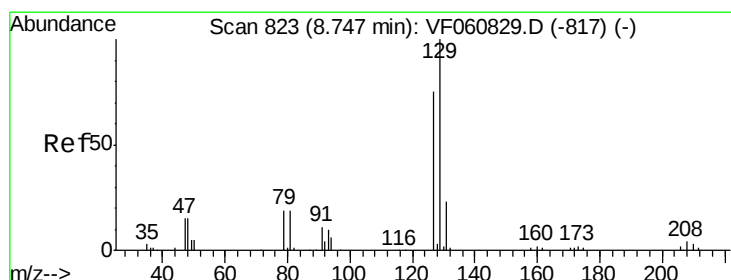
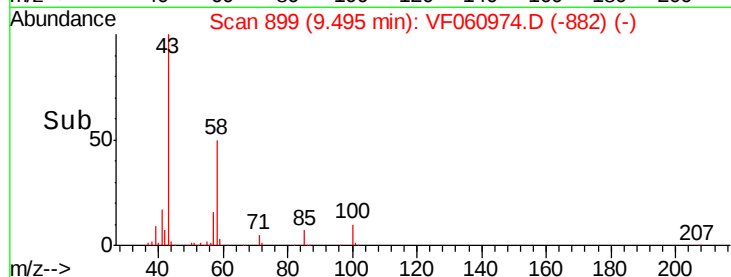
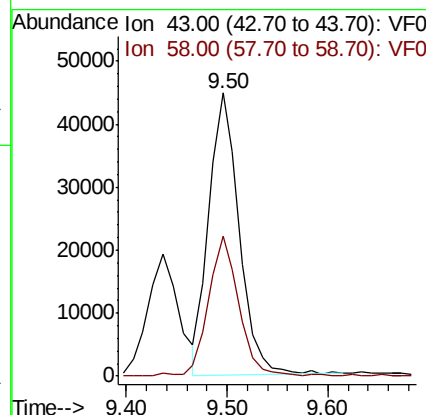
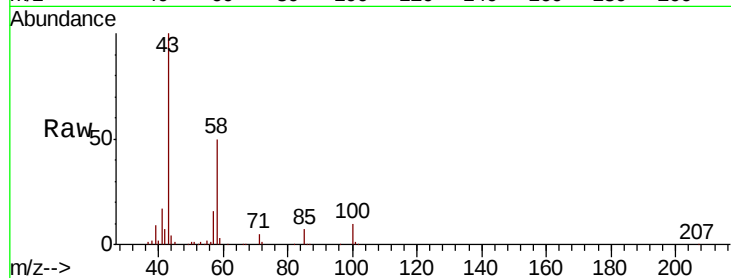
#59
2-Hexanone
Concen: 102.466 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion: 43 Resp: 93753
Ion Ratio Lower Upper
43 100
58 49.6 25.6 76.6

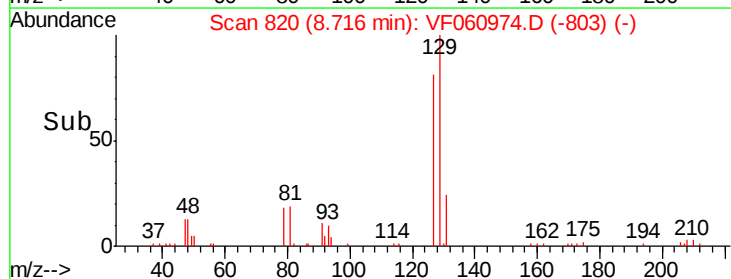
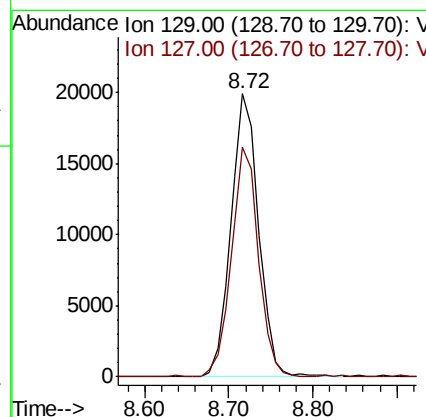
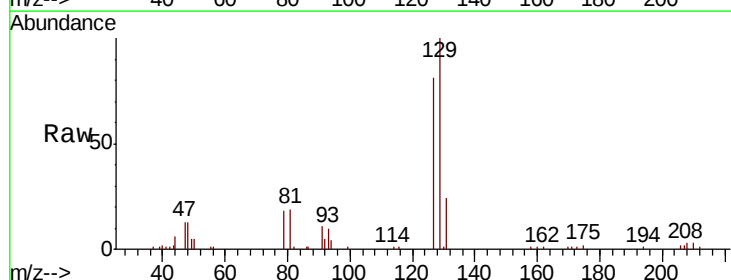
Manual Integrations
APPROVED

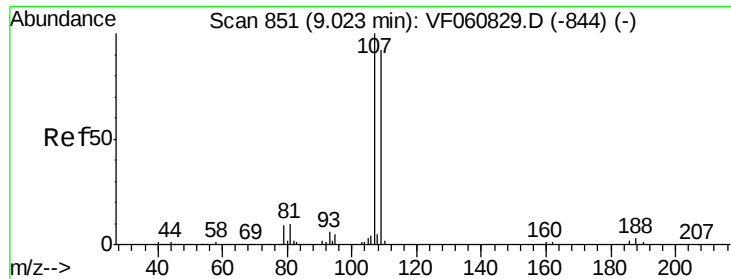
MMDadoda
12/12/2018 1:27:39 PM



#60
Dibromochloromethane
Concen: 19.356 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion: 129 Resp: 45384
Ion Ratio Lower Upper
129 100
127 81.1 37.3 111.9





#61

1,2-Dibromoethane

Concen: 19.921 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion:107 Resp: 33865

Ion Ratio Lower Upper

107 100

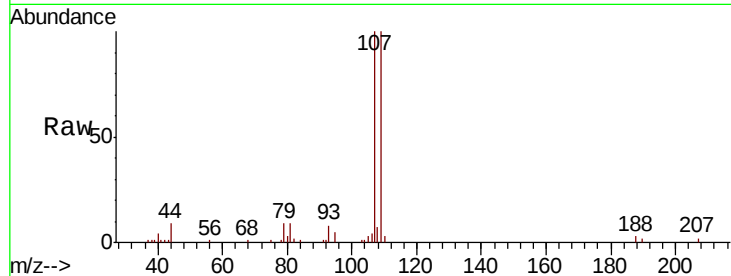
109 100.0 73.6 110.4

Manual Integrations

APPROVED

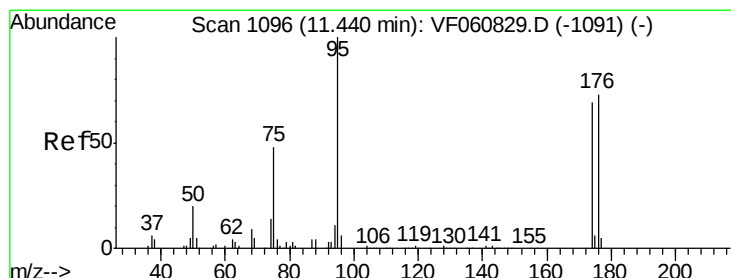
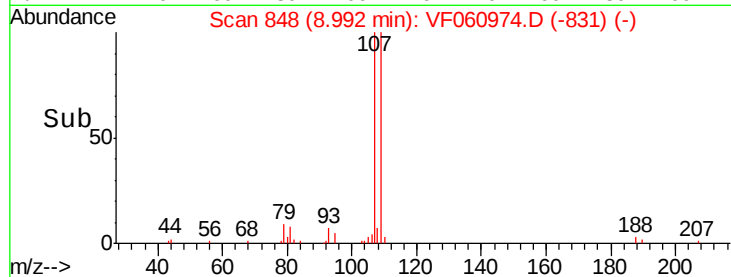
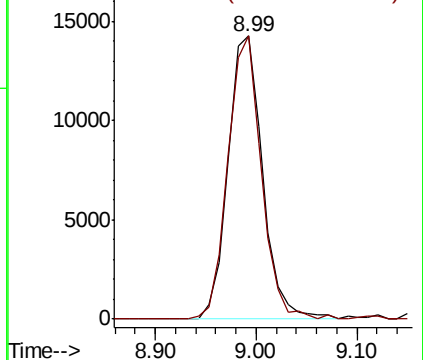
MMDadoda

12/12/2018 1:27:39 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 46.833 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

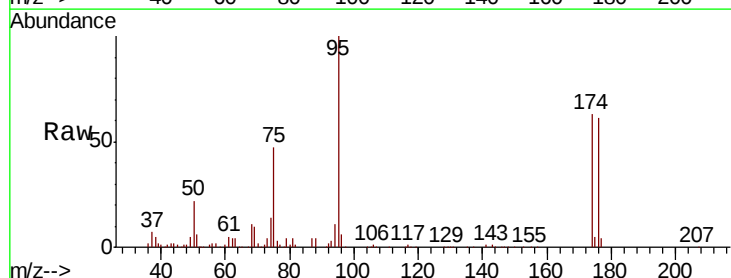
Tgt Ion: 95 Resp: 156072

Ion Ratio Lower Upper

95 100

174 63.0 0.0 138.2

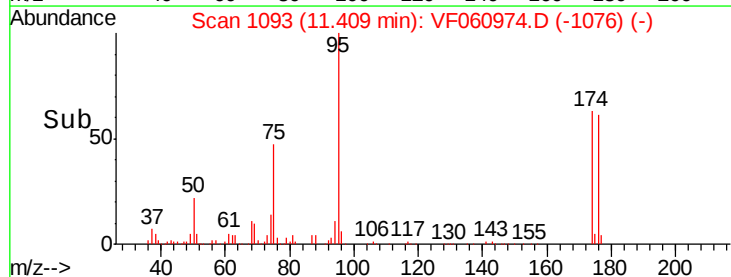
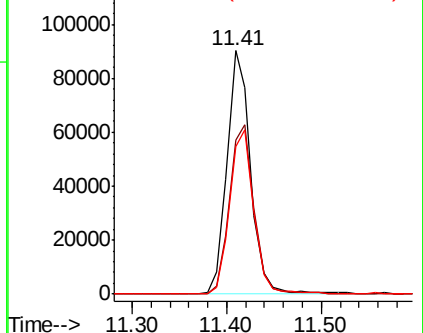
176 60.7 0.0 146.2

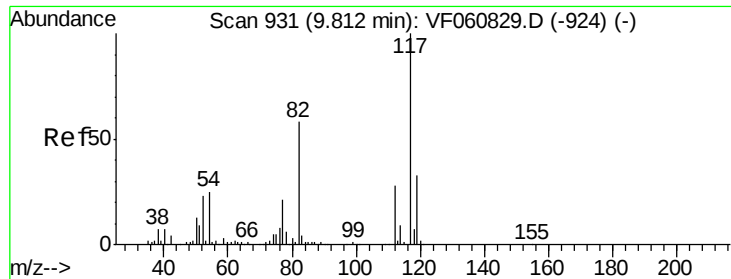


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





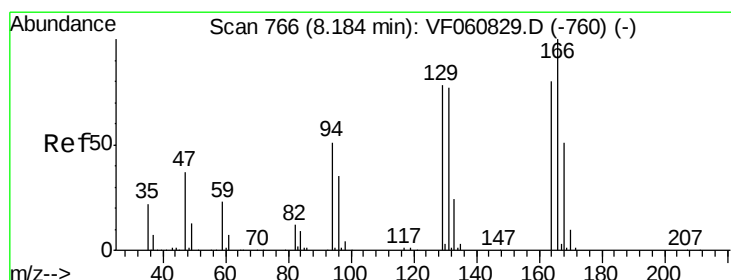
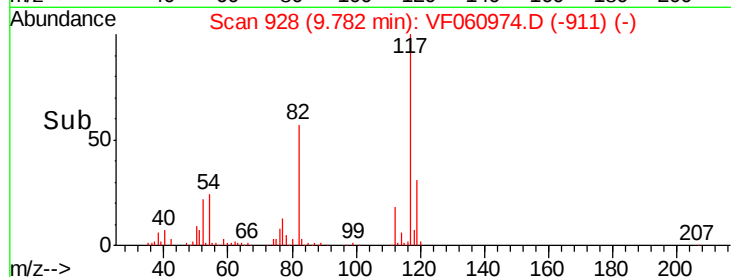
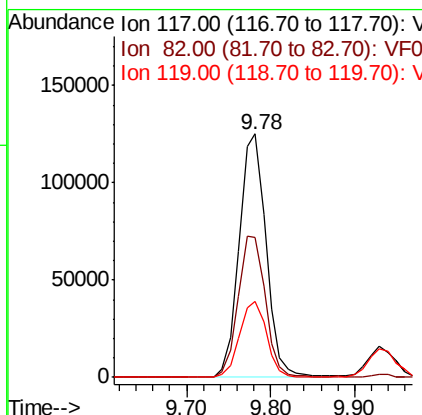
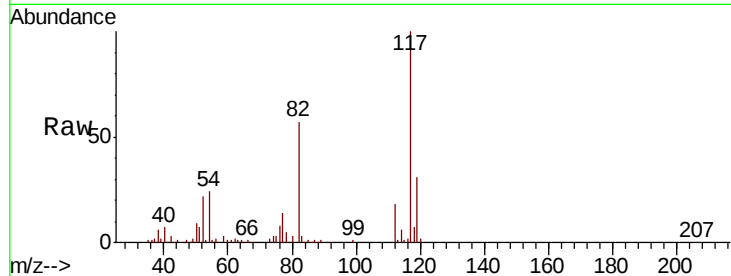
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	280446		
82	57.3		46.6	69.8
119	31.3		26.4	39.6

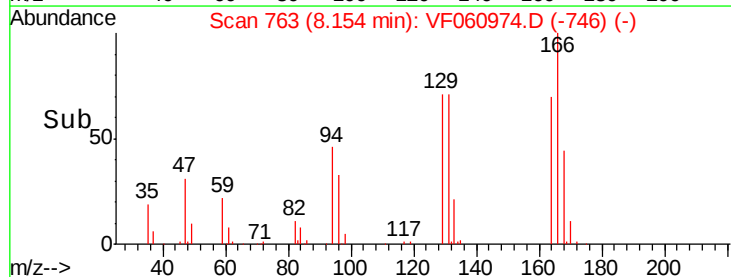
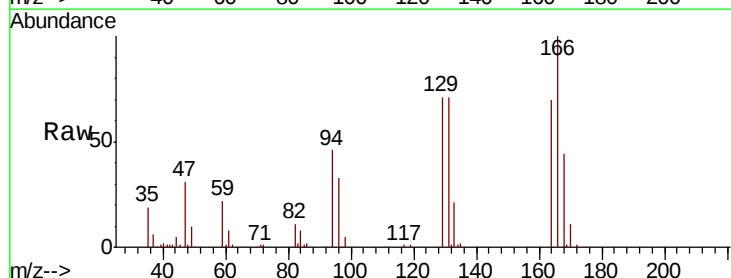
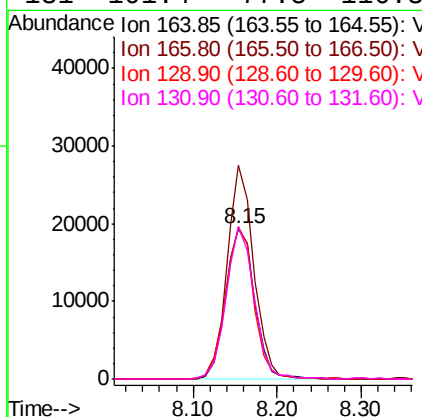
Manual Integrations
APPROVED

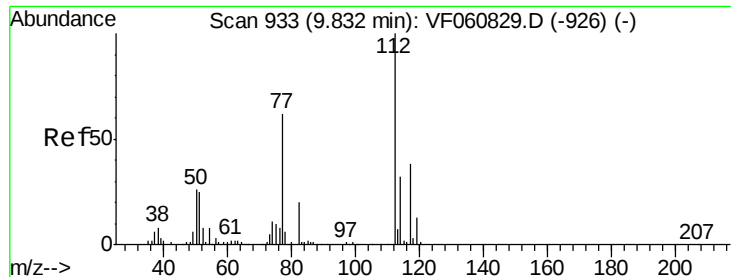
MMDadoda
12/12/2018 1:27:39 PM



#64
Tetrachloroethene
Concen: 21.590 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	46246		
166	142.6		100.3	150.5
129	101.8		77.9	116.9
131	101.4		77.5	116.3





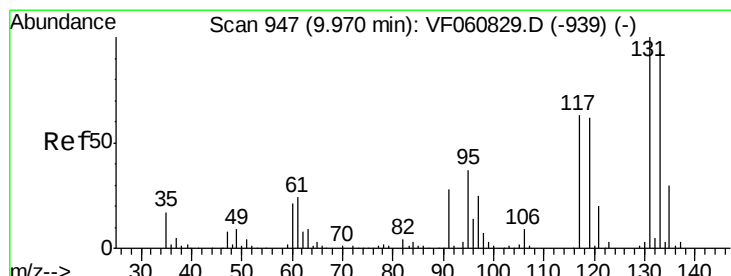
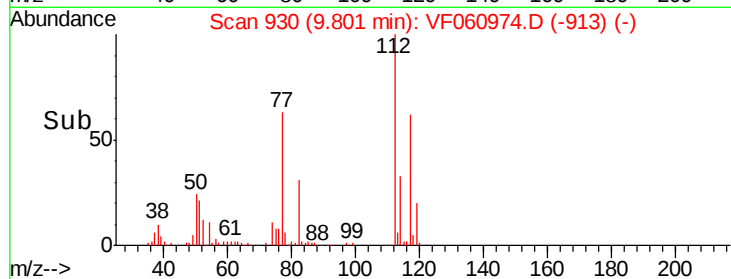
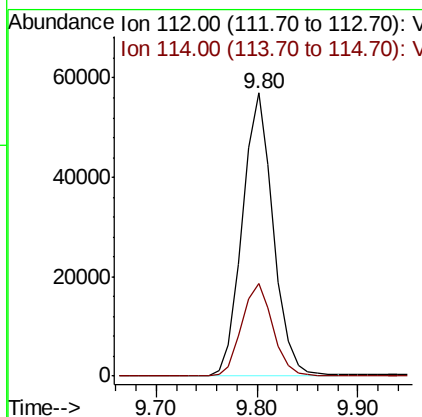
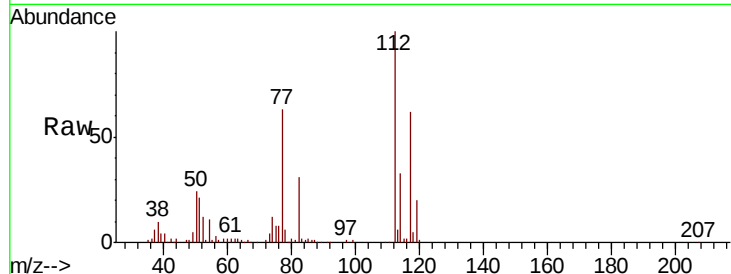
#65
Chlorobenzene
Concen: 22.294 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion:112 Resp: 121629
Ion Ratio Lower Upper
112 100
114 32.8 26.0 39.0

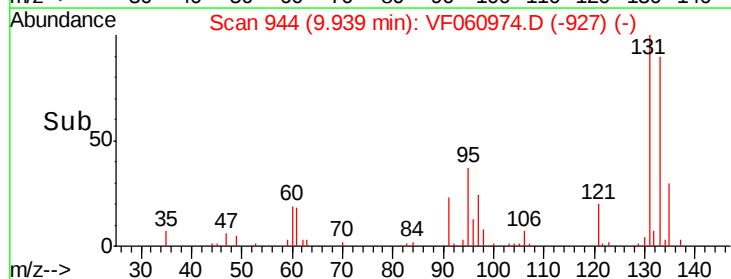
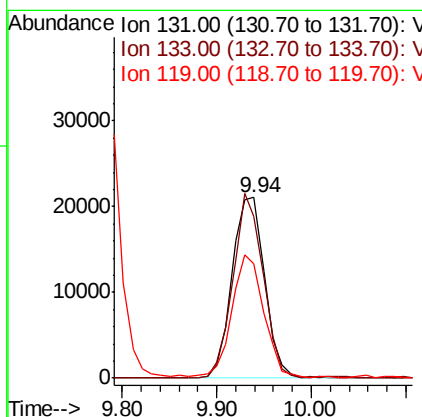
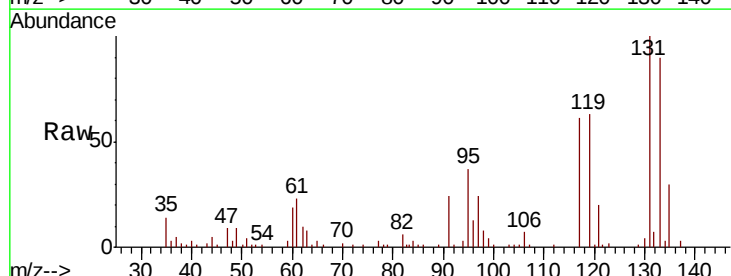
Manual Integrations
APPROVED

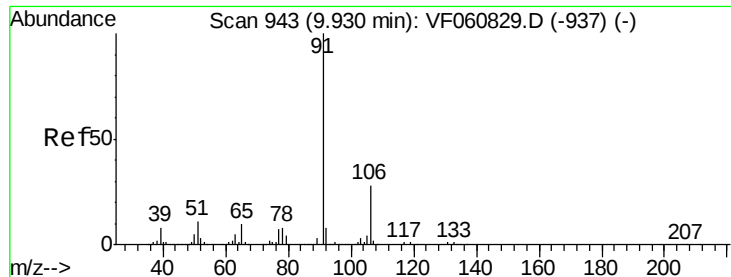
MMDadoda
12/12/2018 1:27:39 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.381 ug/l
RT: 9.94 min Scan# 944
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion:131 Resp: 50147
Ion Ratio Lower Upper
131 100
133 89.8 46.5 139.3
119 63.3 31.1 93.3





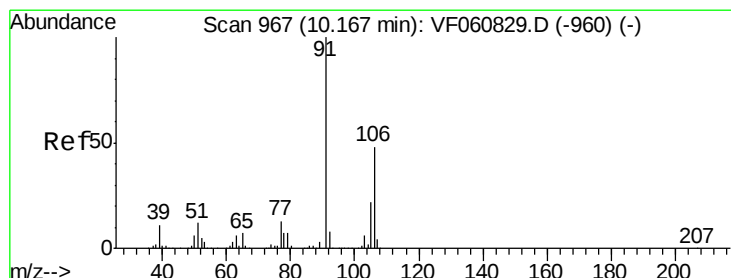
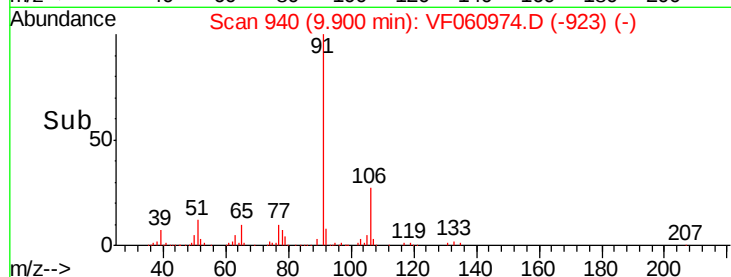
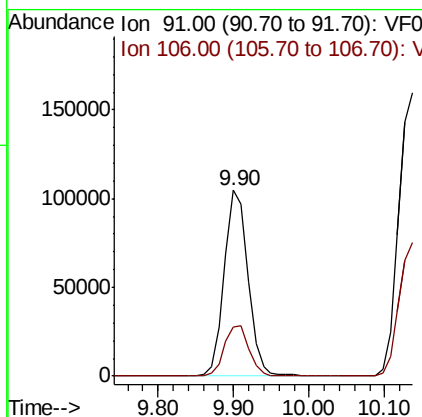
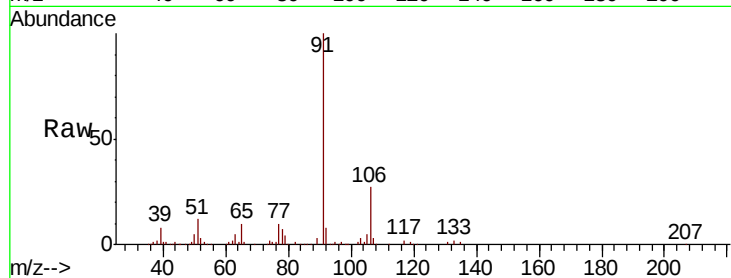
#67
Ethyl Benzene
Concen: 22.608 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion: 91 Resp: 229633
Ion Ratio Lower Upper
91 100
106 26.8 22.2 33.2

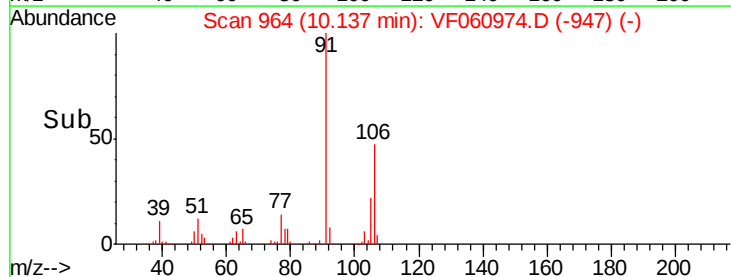
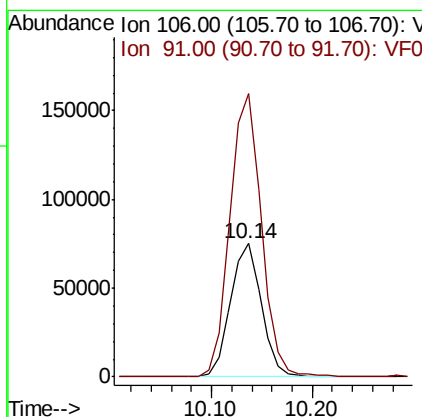
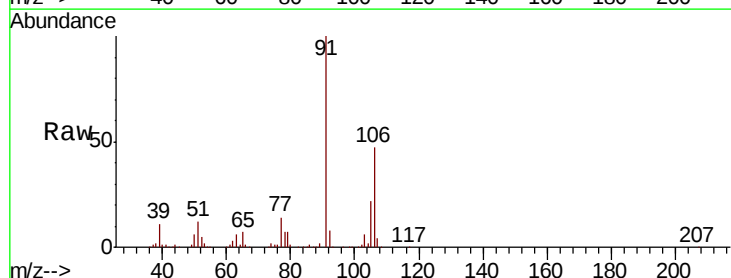
Manual Integrations
APPROVED

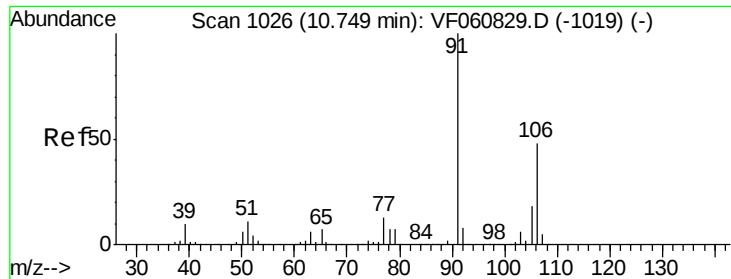
MMDadoda
12/12/2018 1:27:39 PM



#68
m/p-Xylenes
Concen: 43.886 ug/l
RT: 10.14 min Scan# 964
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion: 106 Resp: 160318
Ion Ratio Lower Upper
106 100
91 212.5 166.7 250.1





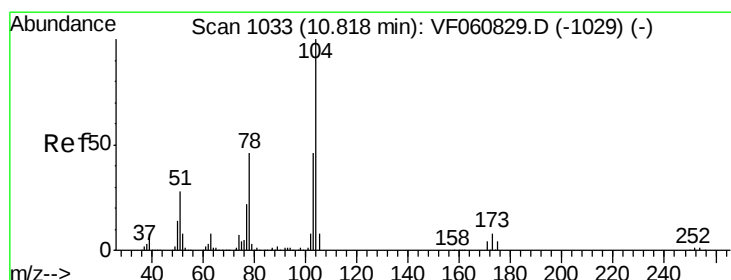
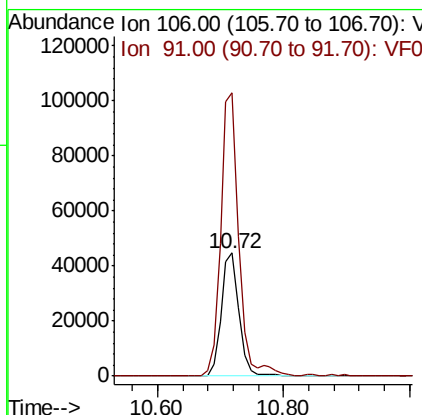
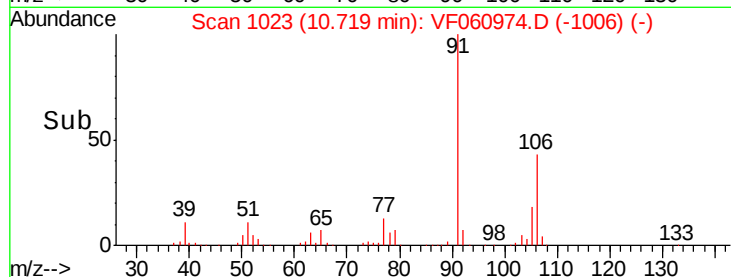
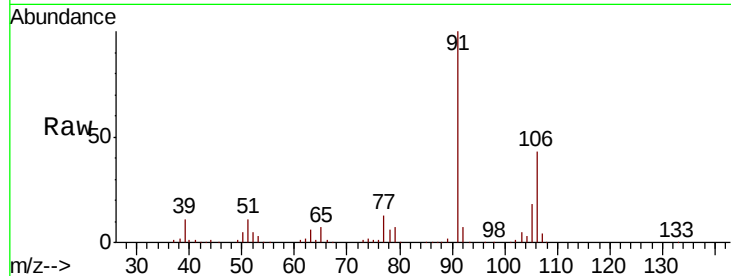
#69
o-Xylene
Concen: 21.889 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion:106 Resp: 88176
Ion Ratio Lower Upper
106 100
91 230.5 104.8 314.6

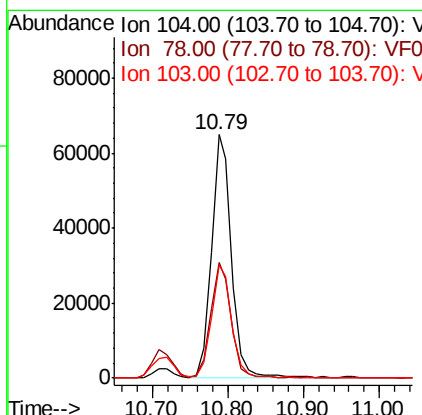
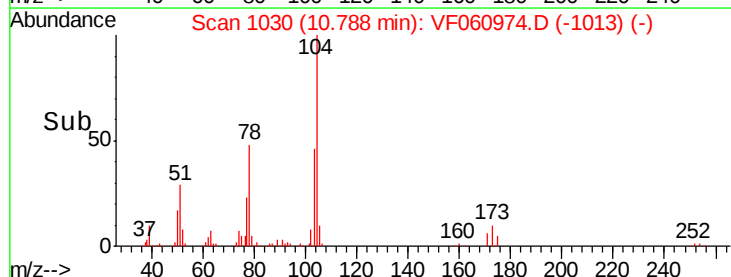
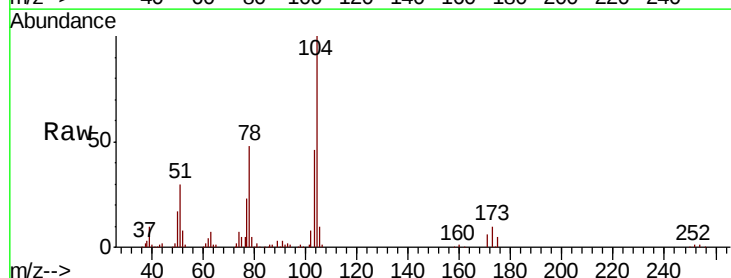
Manual Integrations
APPROVED

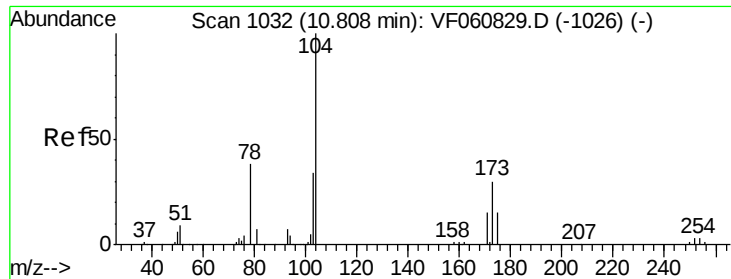
MMDadoda
12/12/2018 1:27:39 PM



#70
Styrene
Concen: 21.433 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion:104 Resp: 119684
Ion Ratio Lower Upper
104 100
78 47.7 37.3 55.9
103 46.4 36.8 55.2





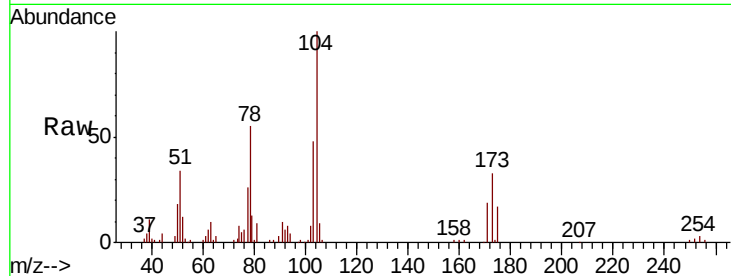
#71
Bromoform
Concen: 18.522 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.03 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	52.5	25.5	76.5
254	0.0	7.5	11.3

Manual Integrations
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12/12/2018 1:27:39 PM

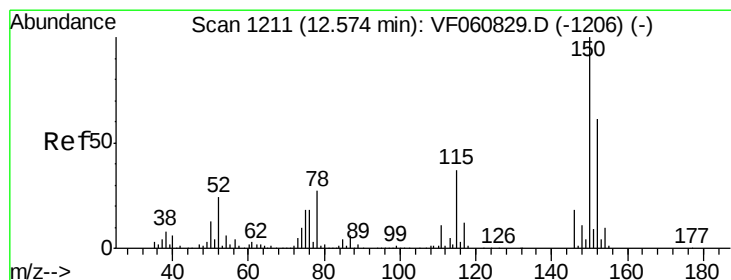
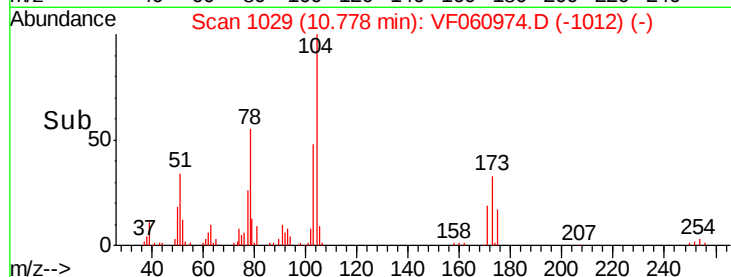
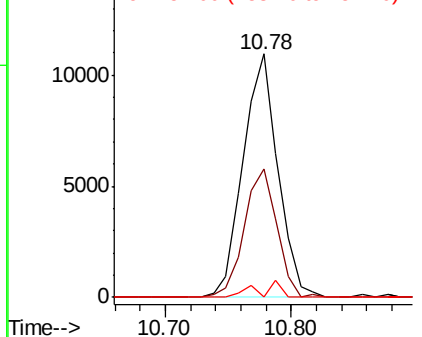


Abundance

Ion 173.00 (172.70 to 173.70): V

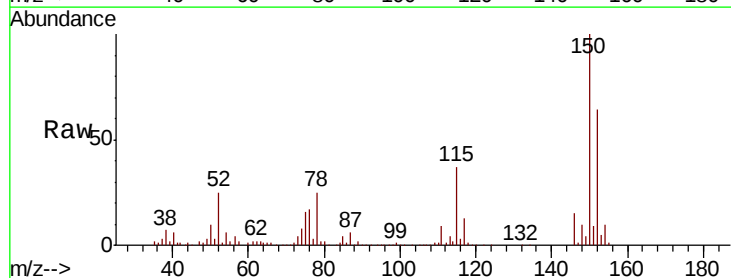
Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	30.1	90.5
150	156.6	0.0	327.6

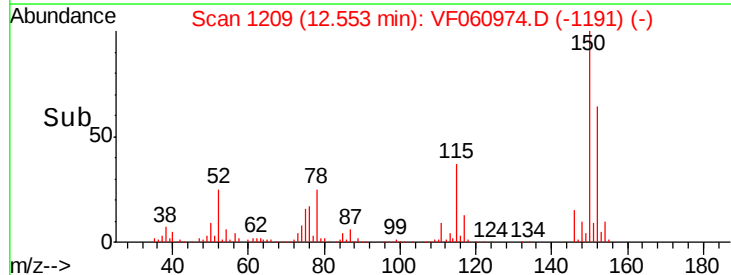
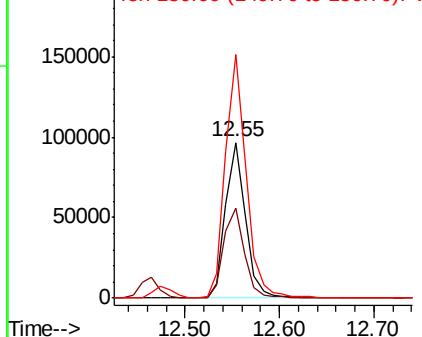


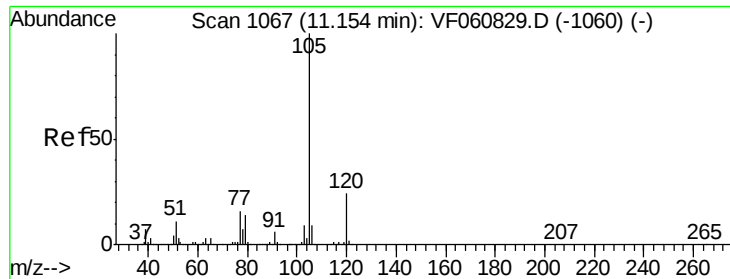
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 24.111 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion:105 Resp: 272507

Ion Ratio Lower Upper

105 100

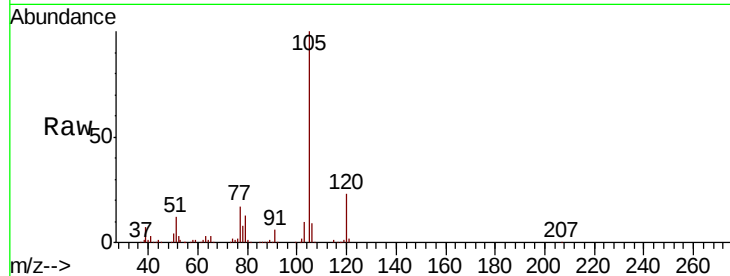
120 22.6 12.2 36.4

Manual Integrations

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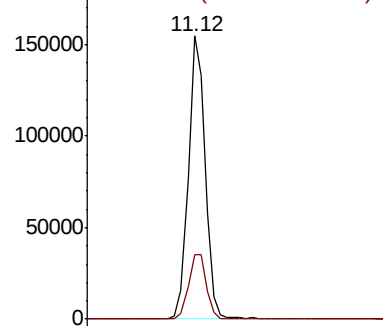
MMDadoda

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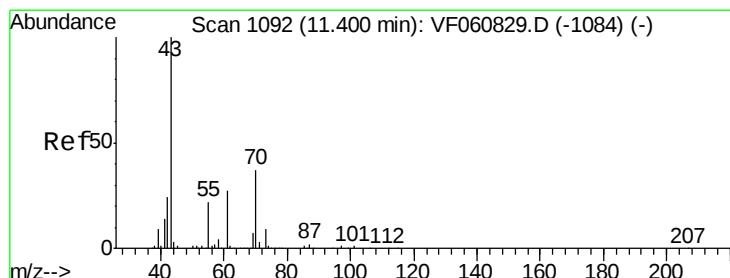
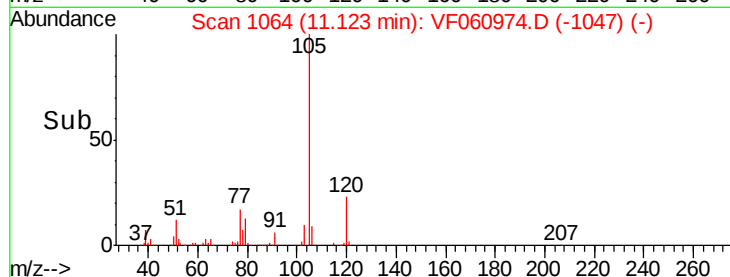


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#74

N-ethyl acetate

Concen: 20.810 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Tgt Ion: 43 Resp: 54313

Ion Ratio Lower Upper

43 100

70 36.0 29.6 44.4

55 17.8 17.2 25.8

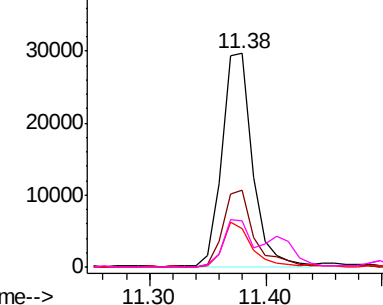
61 21.8 21.8 32.6

Abundance Ion 43.00 (42.70 to 43.70): VF0

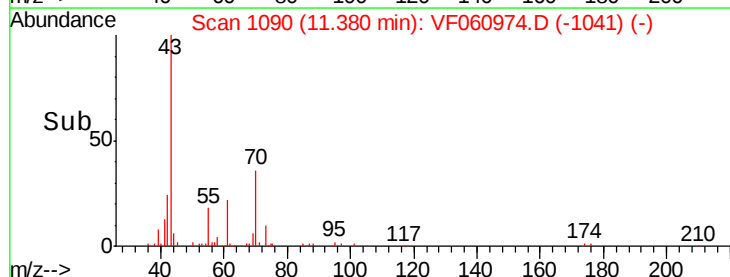
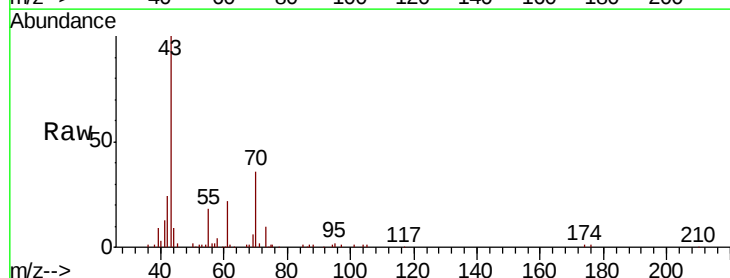
Ion 70.00 (69.70 to 70.70): VF0

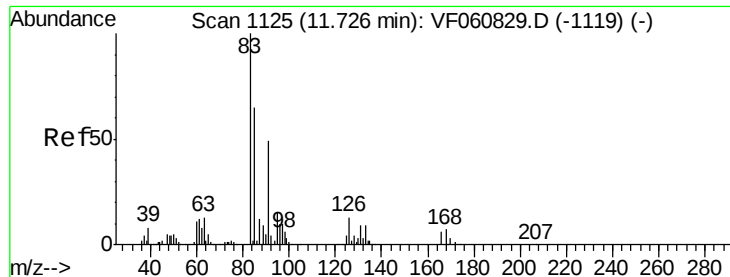
Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.909 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 83 Resp: 40753
Ion Ratio Lower Upper

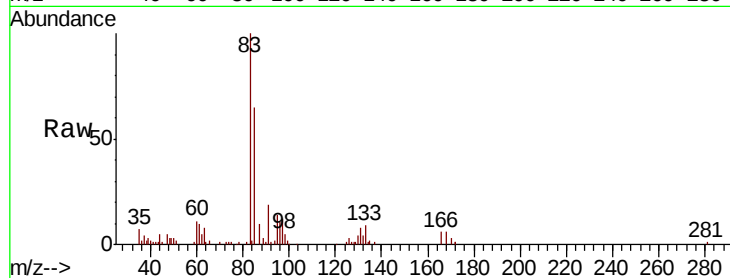
83 100

131 8.2 4.7 14.1

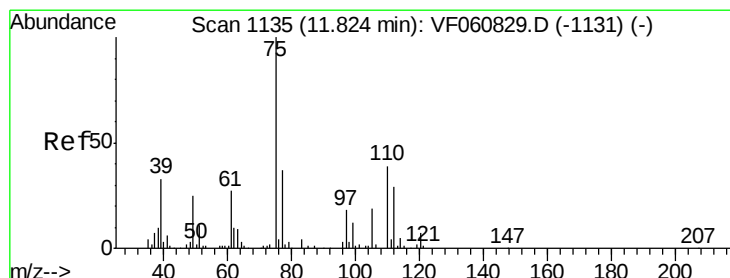
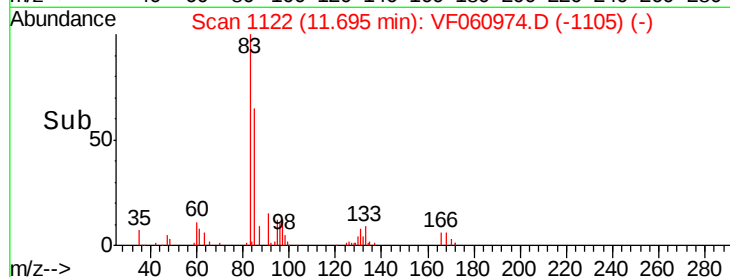
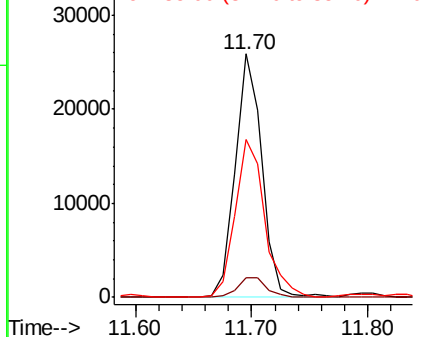
85 64.9 32.6 97.8

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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 22.303 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.03 min

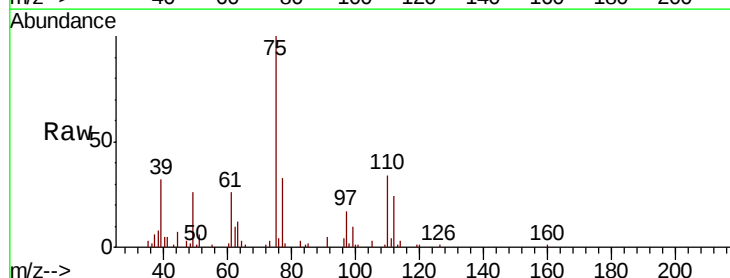
Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

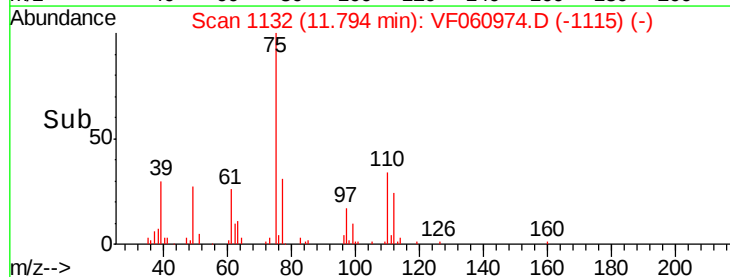
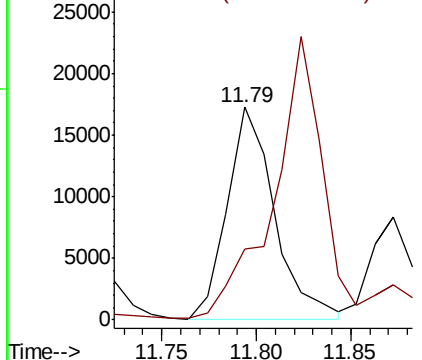
Tgt Ion: 75 Resp: 30155
Ion Ratio Lower Upper

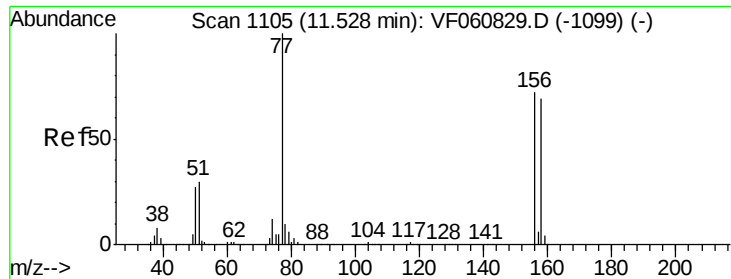
75 100

77 33.3 18.4 55.4



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 21.500 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 156 Resp: 53275

Ion Ratio Lower Upper

156 100

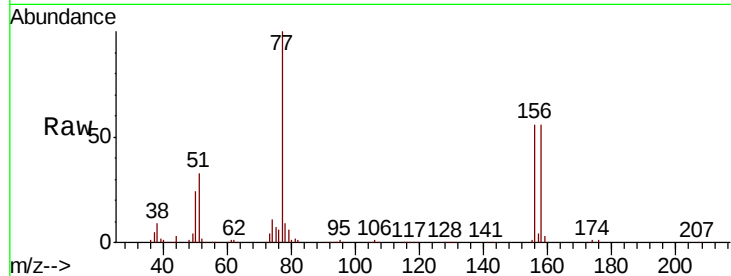
77 180.0 69.7 209.0

158 100.4 47.8 143.4

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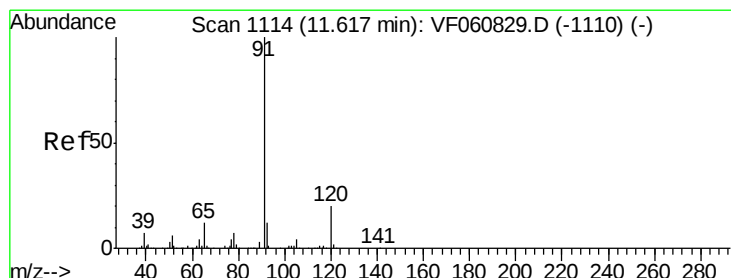
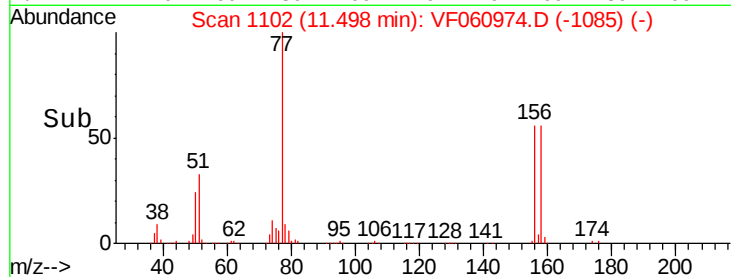
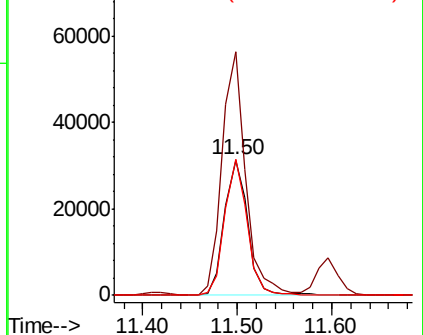
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 23.542 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF060974.D

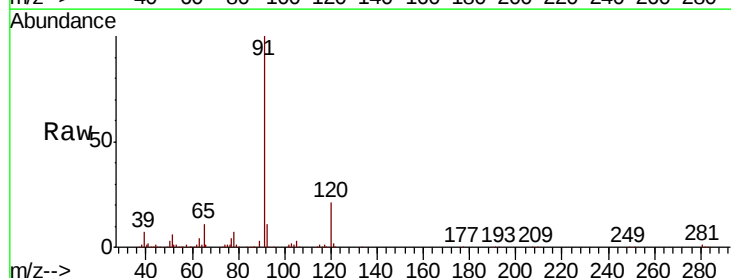
Acq: 11 Dec 2018 14:08

Tgt Ion: 91 Resp: 311606

Ion Ratio Lower Upper

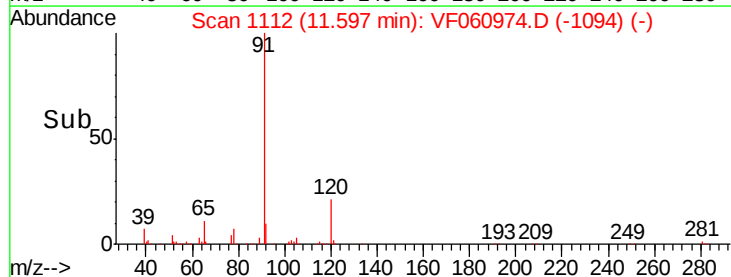
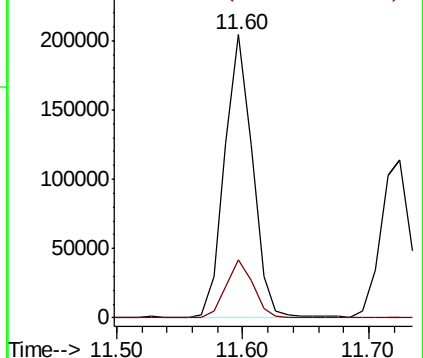
91 100

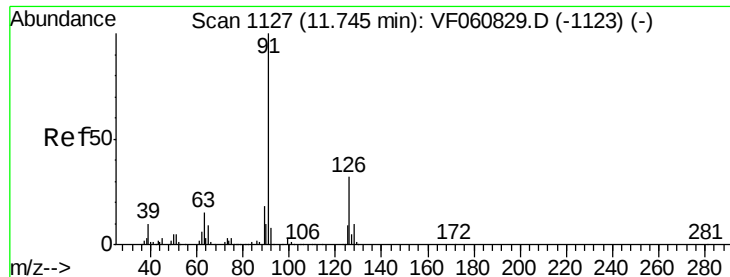
120 20.6 10.3 30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 24.413 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion: 91 Resp: 185276

Ion Ratio Lower Upper

91 100

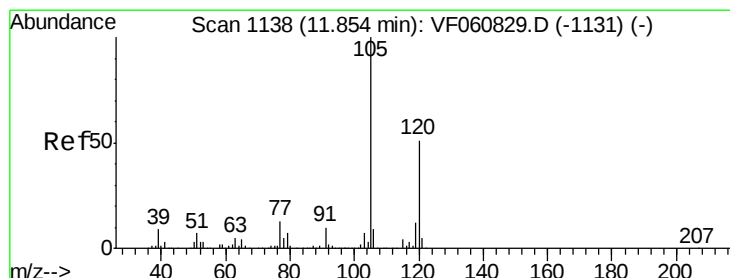
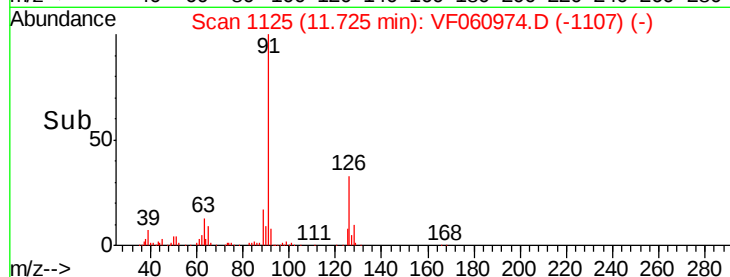
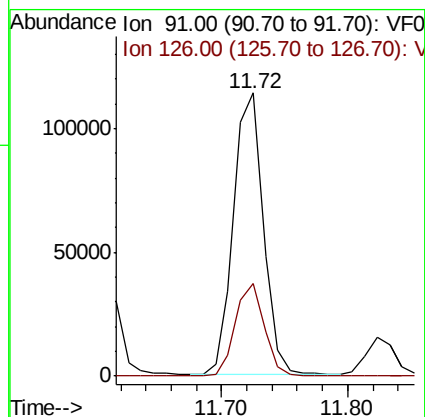
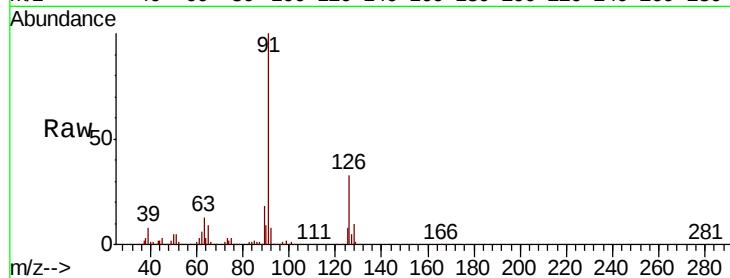
126 32.8 15.9 47.6

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 24.584 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF060974.D

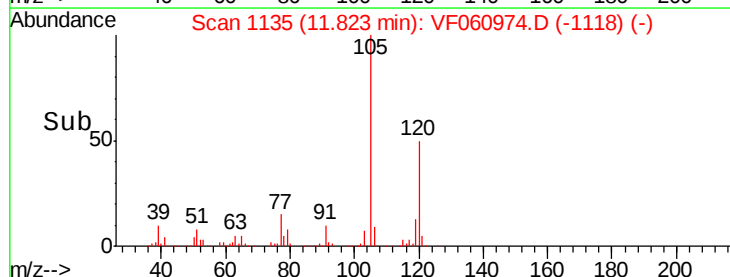
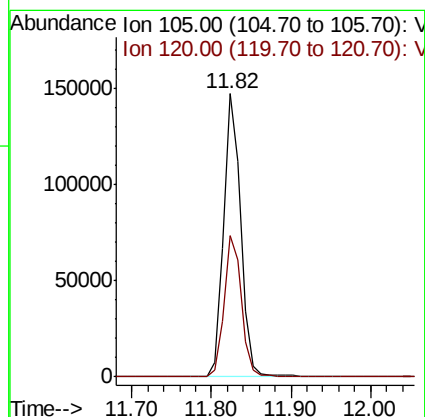
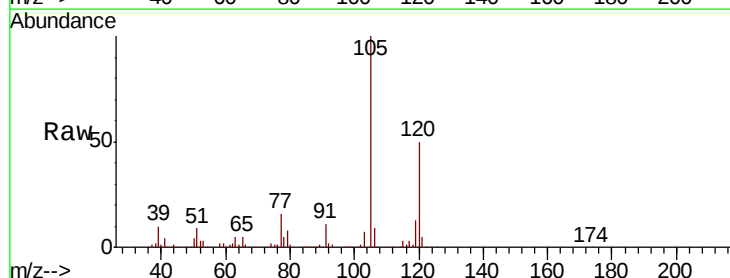
Acq: 11 Dec 2018 14:08

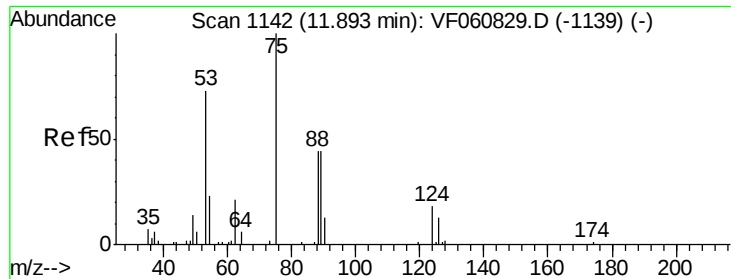
Tgt Ion:105 Resp: 225573

Ion Ratio Lower Upper

105 100

120 49.8 25.8 77.3





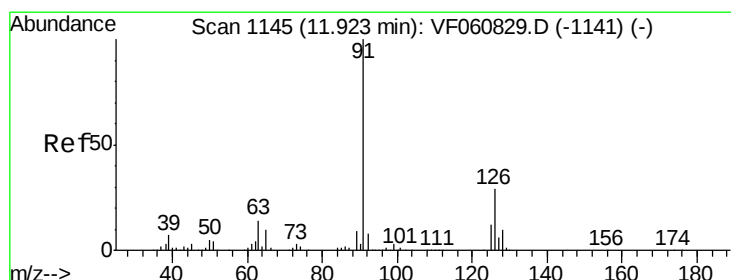
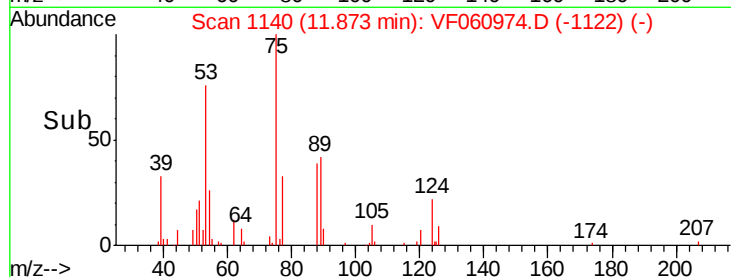
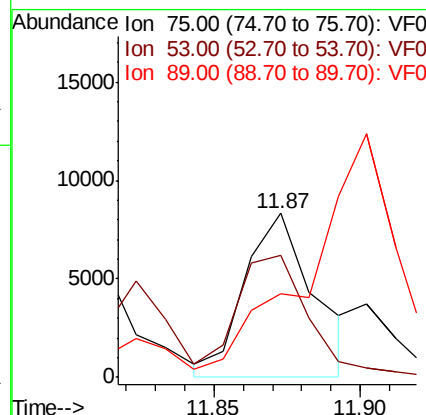
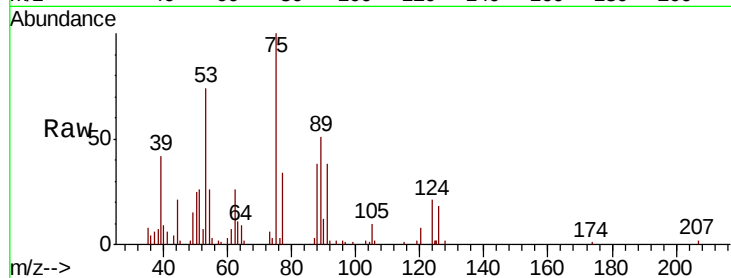
#81
trans-1,4-Dichloro-2-butene
Concen: 20.783 ug/l m
RT: 11.87 min Scan# 1140
Delta R.T. -0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	74.4	65.9	98.9
89	50.9	38.8	58.2

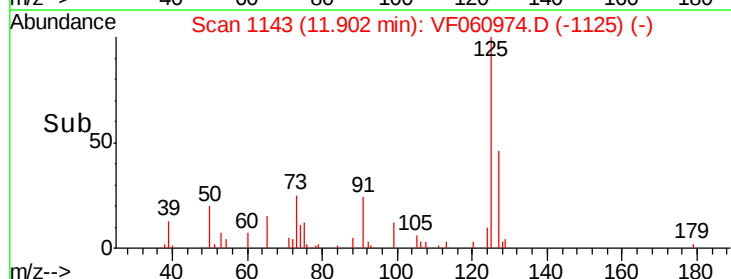
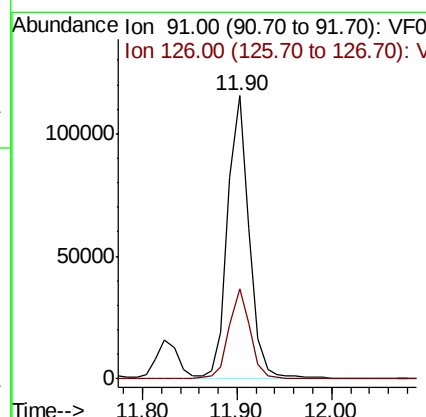
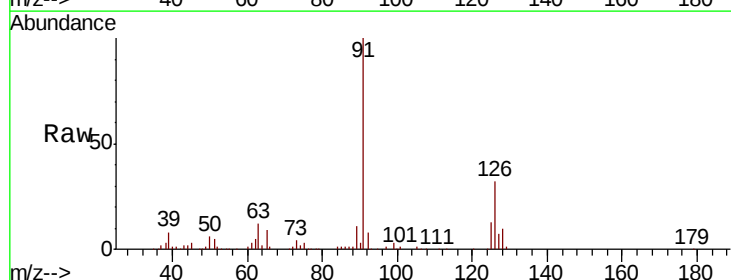
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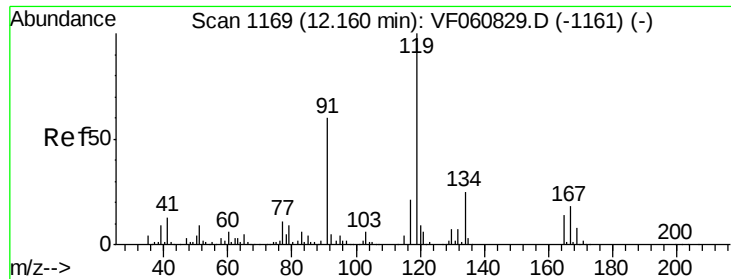
MMDadoda
12/12/2018 1:27:39 PM



#82
4-Chlorotoluene
Concen: 22.662 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.9	14.8	44.4





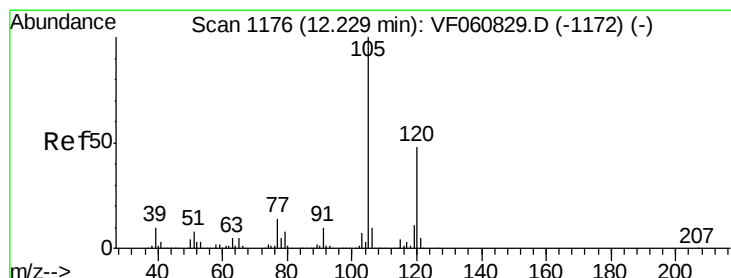
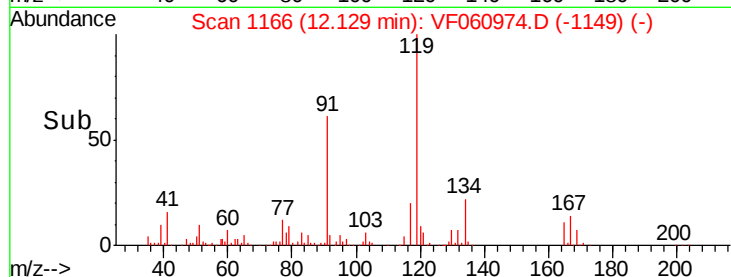
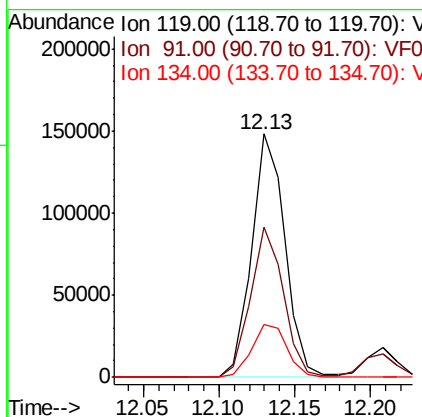
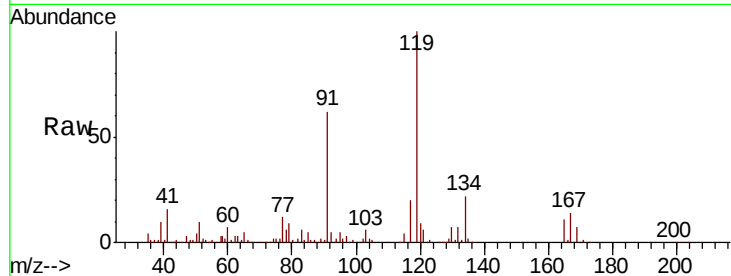
#83
 tert-Butylbenzene
 Concen: 24.479 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.03 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	228787		
91	61.8		30.1	90.3
134	21.9		12.6	37.8

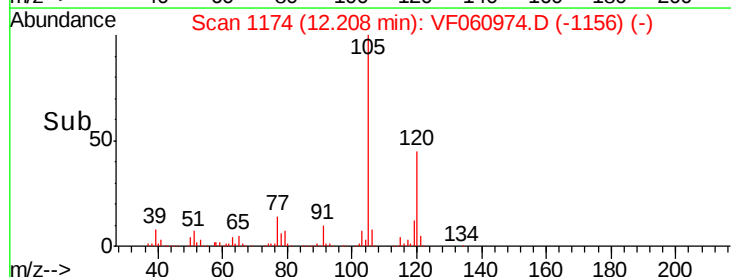
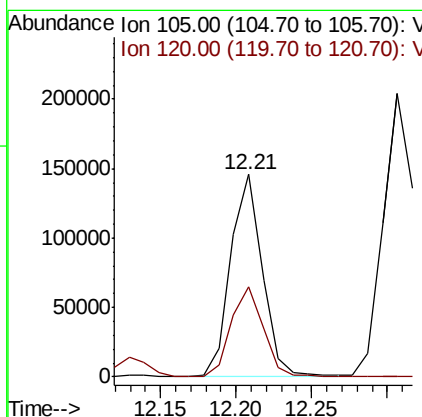
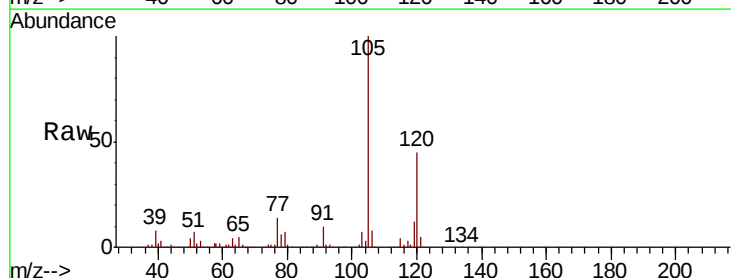
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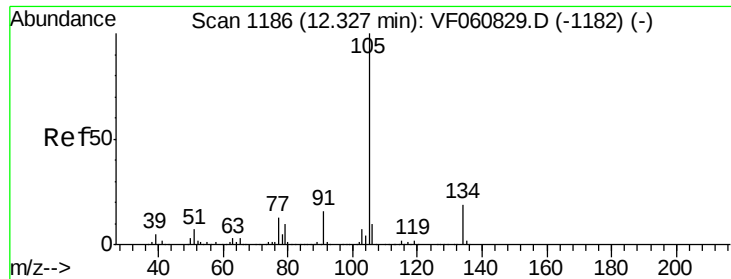
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#84
 1,2,4-Trimethylbenzene
 Concen: 23.335 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	213682		
120	44.5		23.8	71.5





#85

sec-Butylbenzene

Concen: 23.600 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF1211SBS01

Tot Ion:105 Resp: 301948

Ion Ratio Lower Upper

105 100

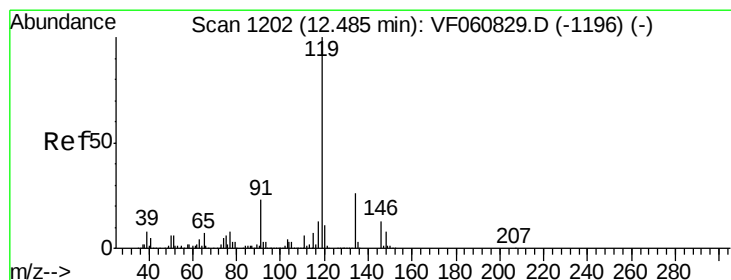
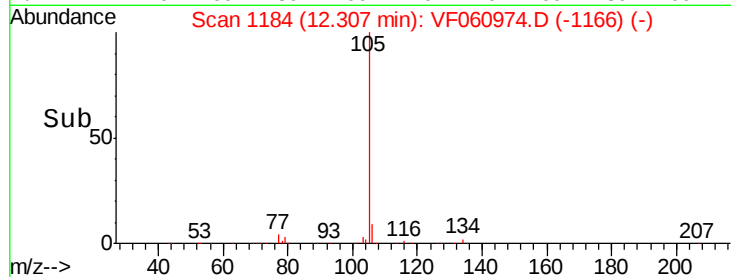
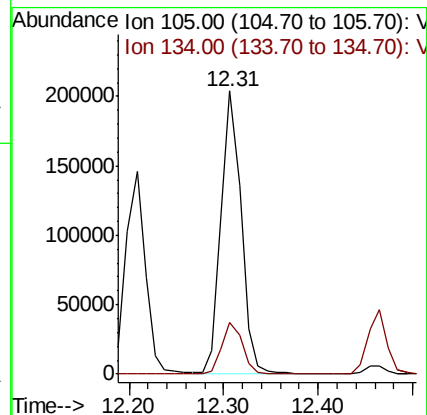
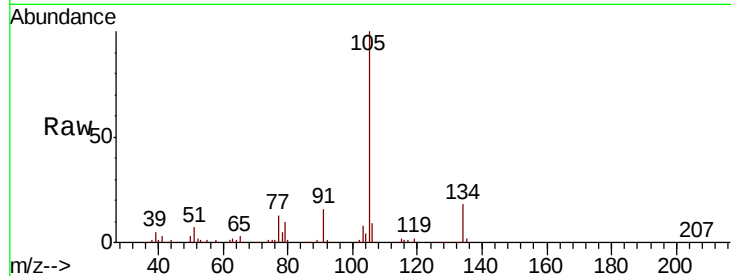
134 18.3 9.5 28.5

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 24.569 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VF060974.D

Acq: 11 Dec 2018 14:08

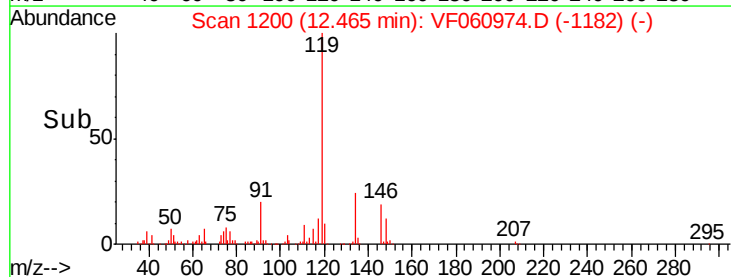
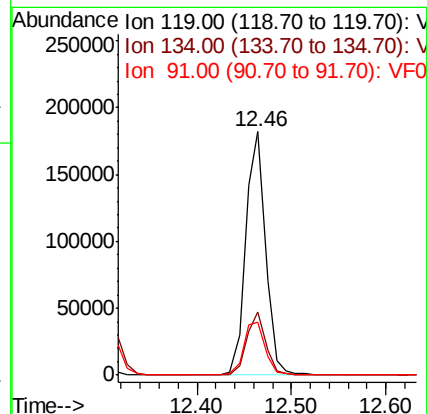
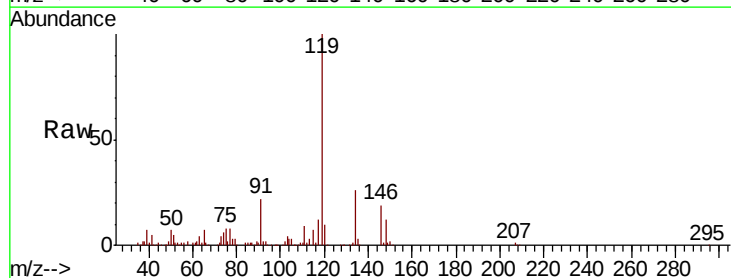
Tgt Ion:119 Resp: 263545

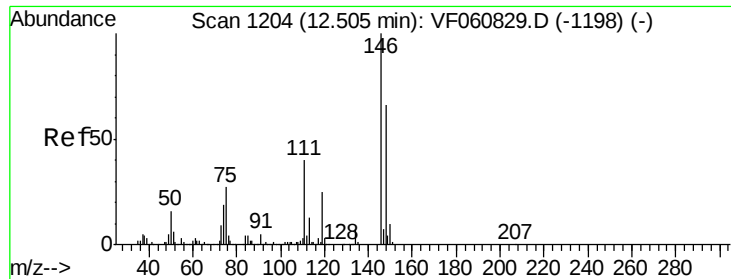
Ion Ratio Lower Upper

119 100

134 25.7 12.9 38.6

91 21.8 11.8 35.3





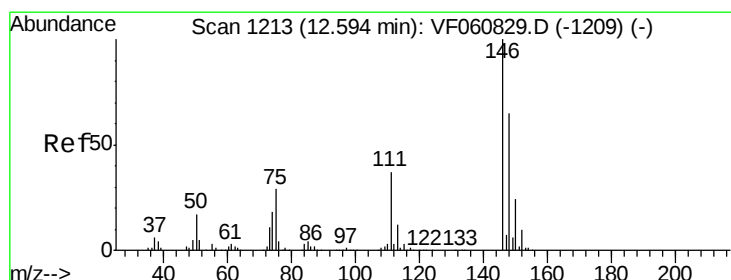
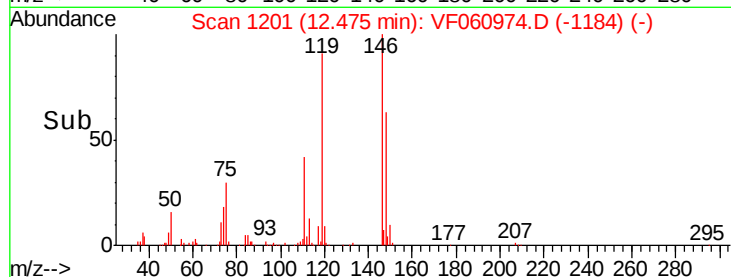
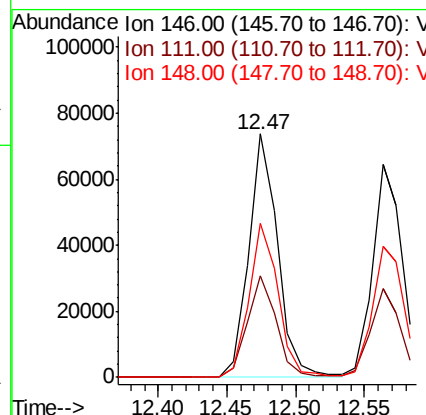
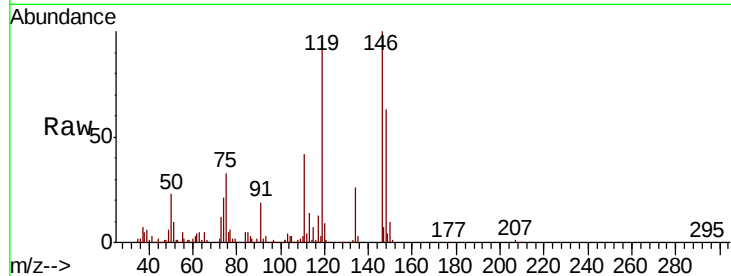
#87
 1,3-Dichlorobenzene
 Concen: 22.925 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.03 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1211SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.0	59.9
148	63.1	32.9	98.6

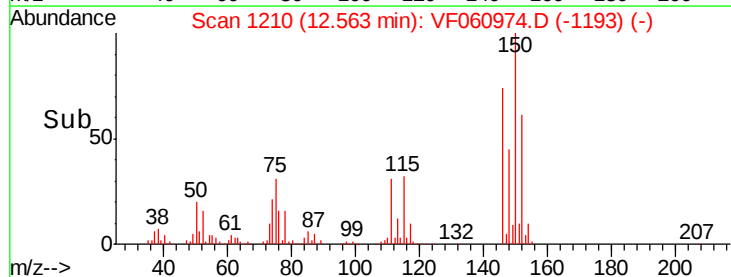
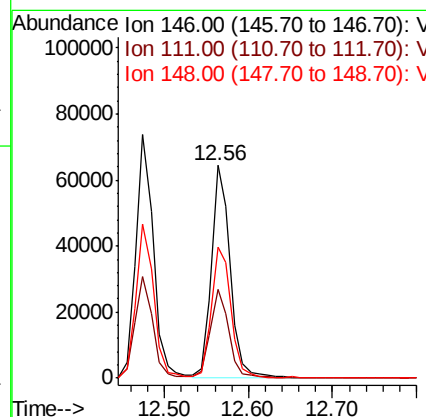
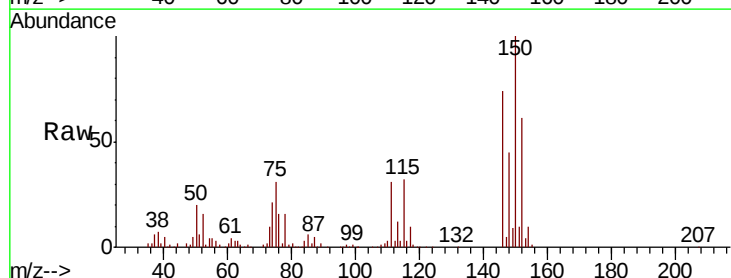
Manual Integrations
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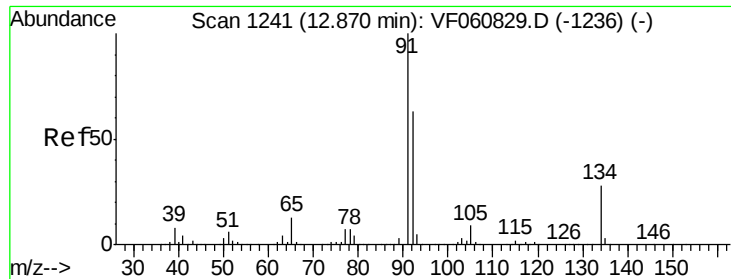
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#88
 1,4-Dichlorobenzene
 Concen: 21.644 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.03 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	18.9	56.7
148	61.7	32.3	96.9





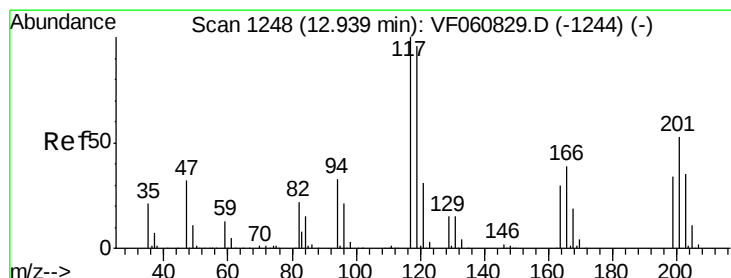
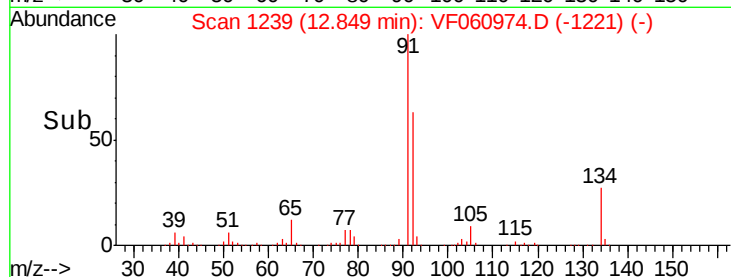
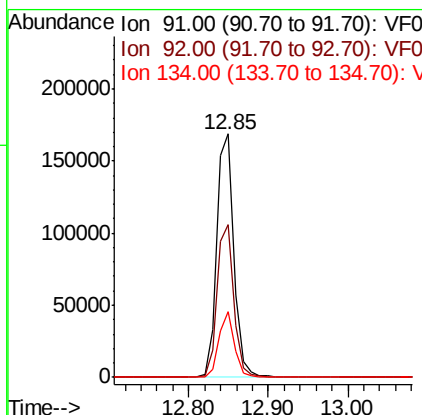
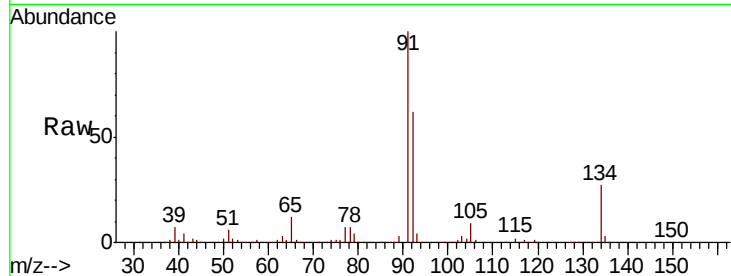
#89
n-Butylbenzene
Concen: 23.748 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	257589		
92	62.5		31.6	94.7
134	27.2		13.8	41.4

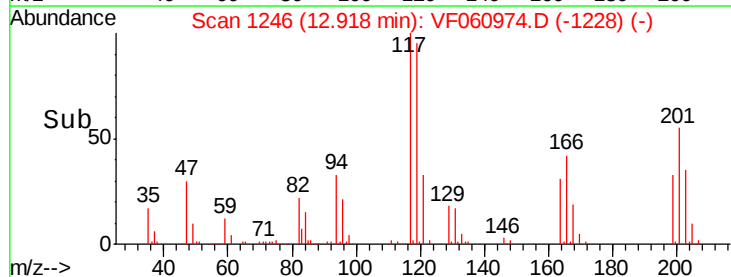
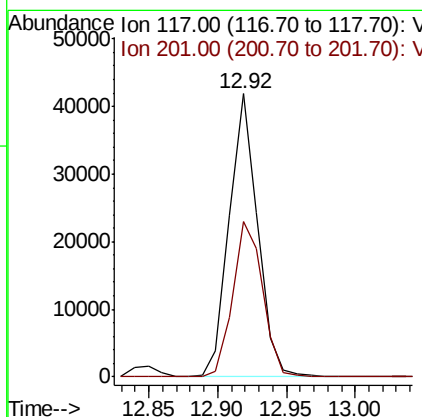
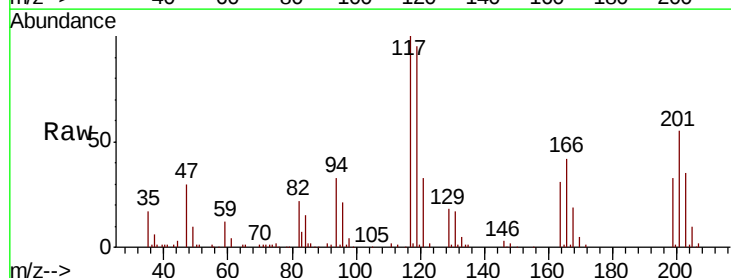
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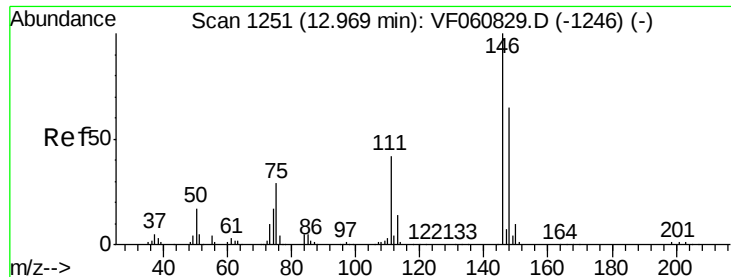
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#90
Hexachloroethane
Concen: 23.340 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	60289		
201	55.1		26.7	80.1





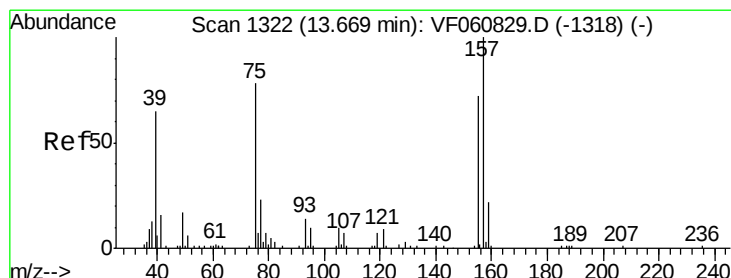
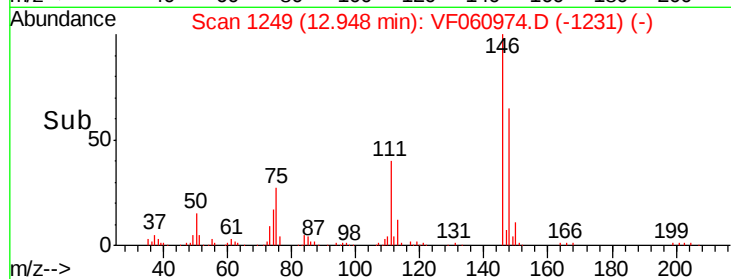
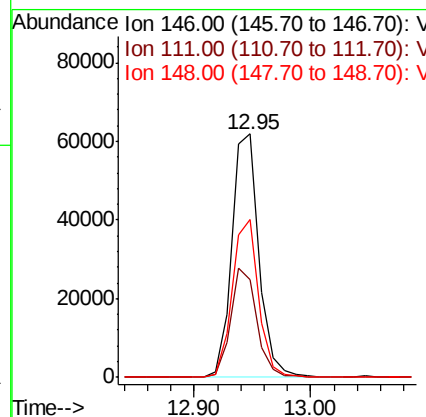
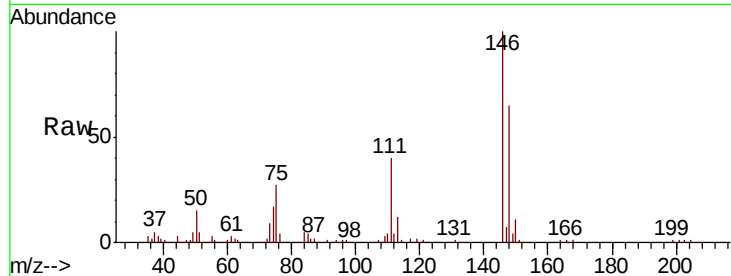
#91
 1,2-Dichlorobenzene
 Concen: 22.387 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.02 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1211SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.2	63.6
148	64.9	32.5	97.5

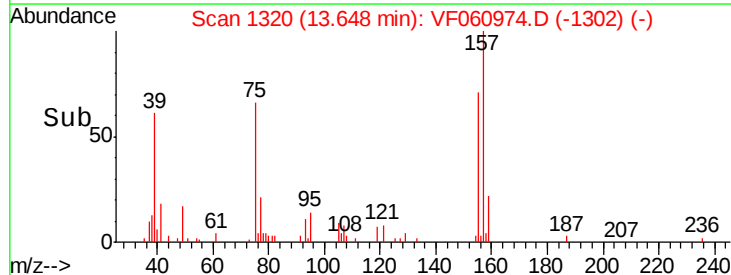
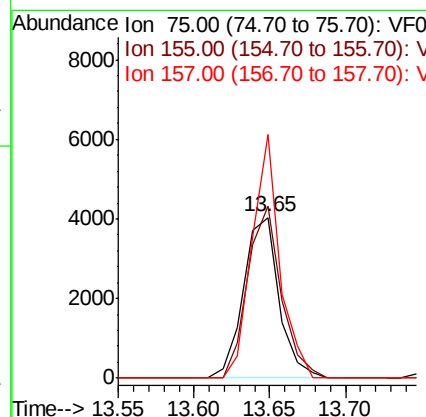
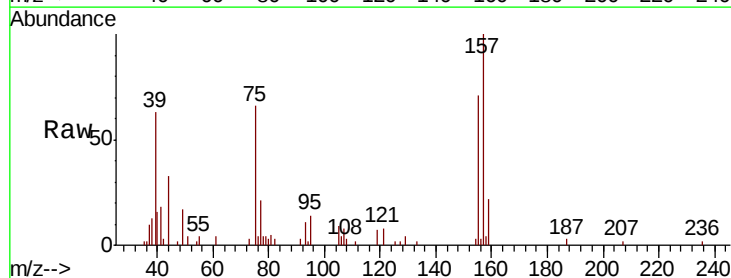
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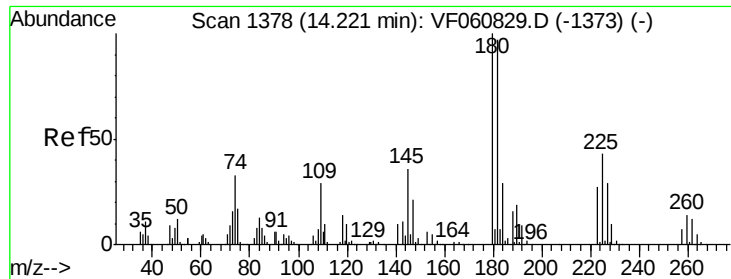
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.344 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.02 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	106.7	45.6	136.9
157	151.3	63.8	191.5





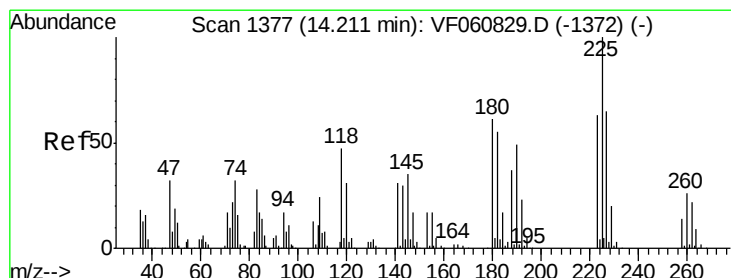
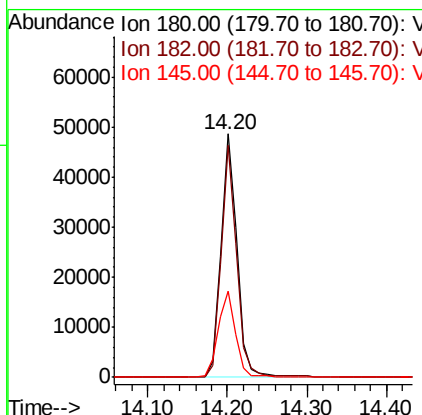
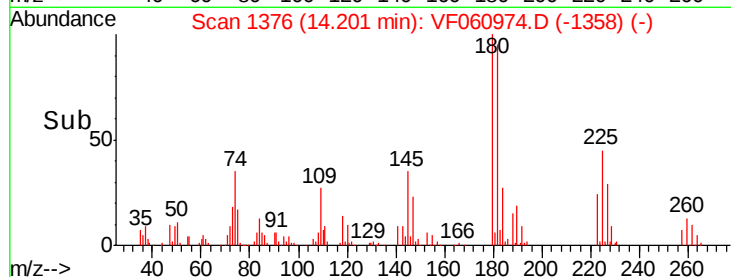
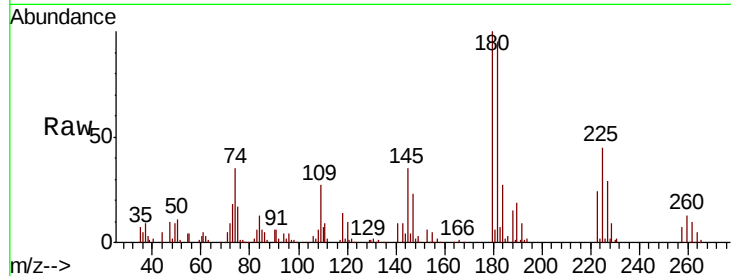
#93
 1,2,4-Trichlorobenzene
 Concen: 22.316 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1211SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	48.5	145.5
145	35.4	18.1	54.3

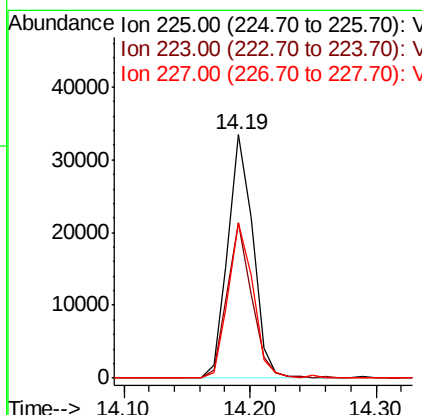
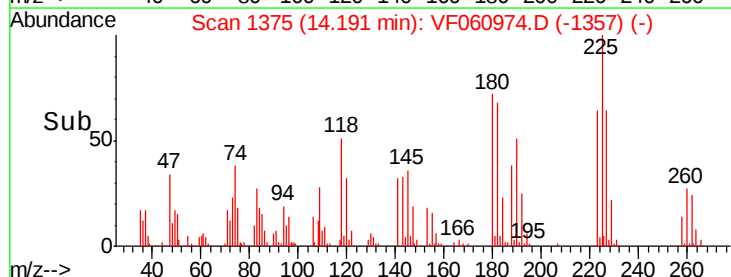
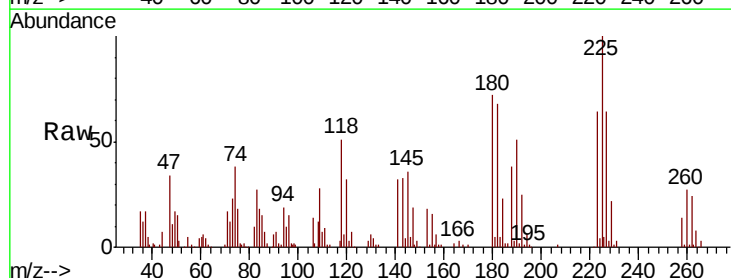
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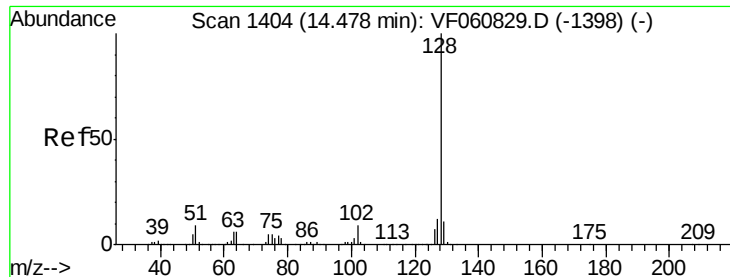
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#94
 Hexachlorobutadiene
 Concen: 22.240 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF060974.D
 Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.4	94.3
227	63.6	32.5	97.5





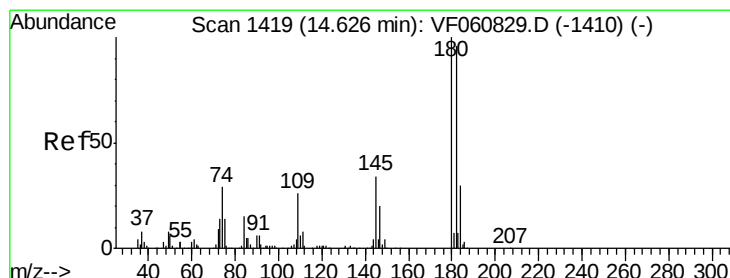
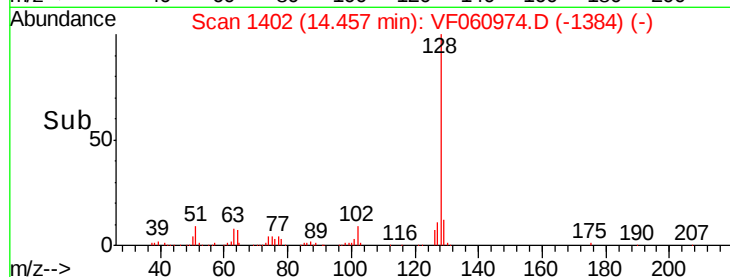
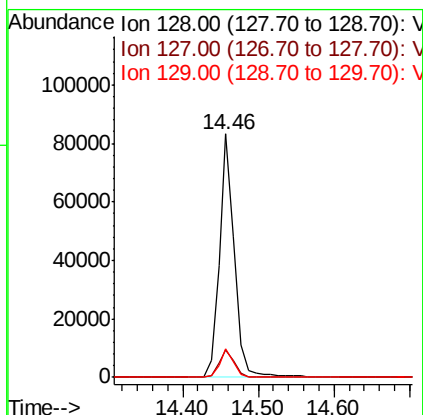
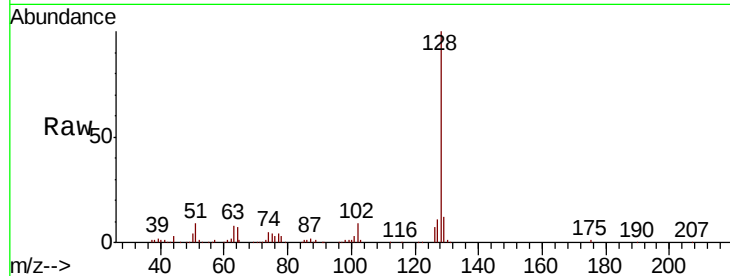
#95
Naphthalene
Concen: 16.838 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF1211SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.0	9.9	14.9
129	11.6	9.1	13.7

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 20.834 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.02 min
Lab File: VF060974.D
Acq: 11 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.9	143.8
145	35.9	17.2	51.5

