

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060592.D
 Acq On : 6 Nov 2018 3:22
 Operator : VA/AP
 Sample : VF1105SBS02
 Misc : 5.00/5mL/MSVOA-F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS02

Manual Integrations
 APPROVED

MMDadoda
 11/6/2018 12:53:53 PM

Quant Time: Nov 06 07:54:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	246414	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.60	114	431924	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	392716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	215609	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	136821	54.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.90%	
35) Dibromofluoromethane	4.12	113	168466	50.48	ug/l	0.01
Spiked Amount	50.000		Recovery	=	100.96%	
50) Toluene-d8	7.56	98	486942	49.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.52%	
62) 4-Bromofluorobenzene	11.42	95	214401	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	92200	34.574	ug/l	98
3) Chloromethane	1.10	50	57870	26.834	ug/l	90
4) Vinyl Chloride	1.14	62	47270	23.787	ug/l	95
5) Bromomethane	1.33	94	25936	23.251	ug/l	87
6) Chloroethane	1.38	64	19429	24.923	ug/l	88
7) Trichlorofluoromethane	1.49	101	92552m	24.883	ug/l	
8) Diethyl Ether	1.63	74	13810	20.033	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.83	101	50264	23.649	ug/l	97
10) Methyl Iodide	1.89	142	83667m	23.921	ug/l	
11) Tert butyl alcohol	2.57	59	11520	83.848	ug/l #	87
12) 1,1-Dichloroethene	1.78	96	41307	23.075	ug/l	88
13) Acrolein	2.00	56	9925	101.525	ug/l	98
14) Allyl chloride	2.10	41	69051	23.623	ug/l	99
15) Acrylonitrile	2.95	53	31701	106.838	ug/l	94
16) Acetone	2.24	43	52015	88.662	ug/l	94
17) Carbon Disulfide	1.82	76	119831	23.764	ug/l	99
18) Methyl Acetate	2.35	43	17641	19.652	ug/l	98
19) Methyl tert-butyl Ether	2.43	73	99543	23.788	ug/l	99
20) Methylene Chloride	2.18	84	45284m	23.092	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	44140	23.503	ug/l	93
22) Diisopropyl ether	2.81	45	146621	23.675	ug/l #	94
23) Vinyl Acetate	3.19	43	367812	98.849	ug/l	96
24) 1,1-Dichloroethane	2.88	63	86134	24.032	ug/l	98
25) 2-Butanone	4.34	43	122488	90.561	ug/l	99
26) 2,2-Dichloropropane	3.60	77	58574	21.841	ug/l	95
27) cis-1,2-Dichloroethene	3.48	96	80964	22.583	ug/l	97
28) Bromochloromethane	3.72	49	51421	22.861	ug/l	94
29) Tetrahydrofuran	4.08	42	44173	94.900	ug/l	96
30) Chloroform	3.86	83	134158	23.659	ug/l	99
31) Cyclohexane	3.70	56	113618	22.972	ug/l	94
32) 1,1,1-Trichloroethane	4.10	97	100122	25.281	ug/l	95
36) 1,1-Dichloropropene	4.29	75	103292	21.719	ug/l	96
37) Ethyl Acetate	4.12	43	39458	17.284	ug/l	92
38) Carbon Tetrachloride	4.00	117	88002	21.655	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	135493	23.346	ug/l	99
40) Benzene	4.64	78	257143	22.275	ug/l	95
41) Methacrylonitrile	4.75	41	25632	19.826	ug/l	90
42) 1,2-Dichloroethane	4.95	62	73987	22.331	ug/l	96
43) Isopropyl Acetate	6.97	43	51006	17.663	ug/l #	99
44) Trichloroethene	5.51	130	78585	22.651	ug/l	99
45) 1,2-Dichloropropane	6.24	63	65820	22.294	ug/l	90
46) Dibromomethane	6.09	93	39829	21.264	ug/l	95
47) Bromodichloromethane	6.39	83	100980	22.352	ug/l	95
48) Methyl methacrylate	6.72	41	33939	18.700	ug/l	97
49) 1,4-Dioxane	6.71	88	6304	332.040	ug/l #	82
51) 4-Methyl-2-Pentanone	8.26	43	189182	97.421	ug/l	99
52) Toluene	7.63	92	154727	20.576	ug/l	99
53) t-1,3-Dichloropropene	8.28	75	80175	20.419	ug/l	98
54) cis-1,3-Dichloropropene	7.31	75	107597	21.688	ug/l	98
55) 1,1,2-Trichloroethane	8.50	97	43004	19.652	ug/l	98
56) Ethyl methacrylate	8.63	69	50417	17.908	ug/l	99
57) 1,3-Dichloropropane	8.86	76	76795	20.001	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.63	63	20560	101.798	ug/l	100
59) 2-Hexanone	9.50	43	122090	77.259	ug/l	98
60) Dibromochloromethane	8.73	129	61300	20.030	ug/l	96
61) 1,2-Dibromoethane	8.99	107	47533	20.656	ug/l	96
64) Tetrachloroethene	8.16	164	66834	21.715	ug/l	94
65) Chlorobenzene	9.81	112	165629	20.624	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.94	131	69331	20.431	ug/l	93
67) Ethyl Benzene	9.91	91	314479	21.578	ug/l	98
68) m/p-Xylenes	10.14	106	229668	41.836	ug/l	95
69) o-Xylene	10.72	106	130446	21.761	ug/l	95
70) Styrene	10.80	104	181030	20.845	ug/l	96
71) Bromoform	10.78	173	33465	19.094	ug/l #	92
73) Isopropylbenzene	11.13	105	375490	22.331	ug/l	94
74) N-amyl acetate	11.38	43	81540	16.772	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	62644	20.411	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	29365	19.468	ug/l	98
77) Bromobenzene	11.50	156	75565	20.538	ug/l	92
78) n-propylbenzene	11.60	91	417713	21.232	ug/l	98
79) 2-Chlorotoluene	11.72	91	247091	21.992	ug/l	97
80) 1,3,5-Trimethylbenzene	11.83	105	296620	21.401	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.87	75	21586m	18.210	ug/l	
82) 4-Chlorotoluene	11.90	91	242532	20.690	ug/l	99
83) tert-Butylbenzene	12.14	119	316100	22.324	ug/l	100
84) 1,2,4-Trimethylbenzene	12.21	105	294871	21.725	ug/l	98
85) sec-Butylbenzene	12.31	105	433736	22.268	ug/l	96
86) p-Isopropyltoluene	12.46	119	356634	22.234	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	150865	20.890	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	142743	20.839	ug/l	99
89) n-Butylbenzene	12.85	91	350593	19.986	ug/l	96
90) Hexachloroethane	12.92	117	90277	22.132	ug/l	72
91) 1,2-Dichlorobenzene	12.95	146	142200	21.047	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	11355	21.295	ug/l	94

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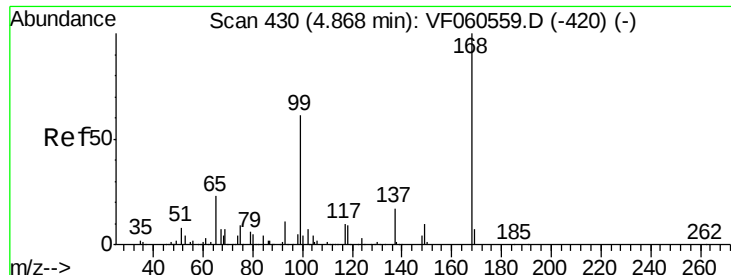
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	101047	22.015	ug/l	89
94) Hexachlorobutadiene	14.19	225	66101	22.225	ug/l	97
95) Naphthalene	14.46	128	177986	19.374	ug/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	94747	21.852	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

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Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion:168 Resp: 246414

Ion Ratio Lower Upper

168 100

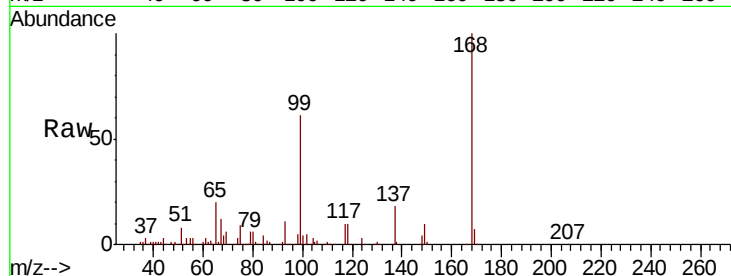
99 61.2 48.6 72.8

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

80000

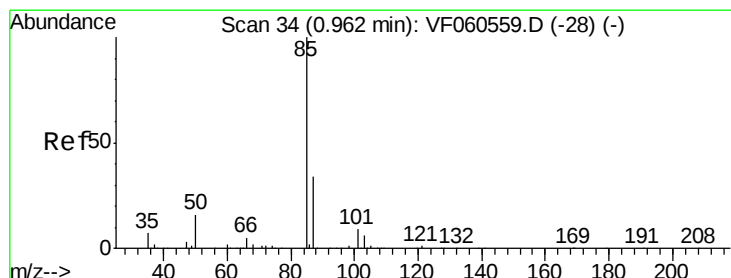
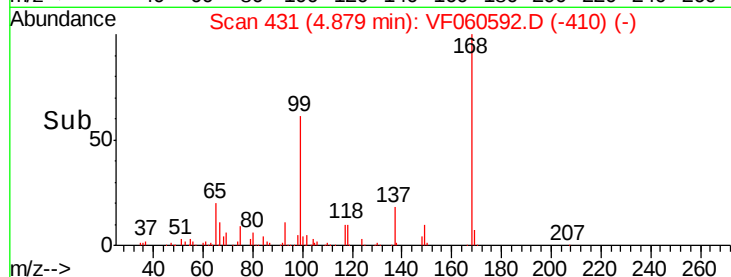
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 34.574 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060592.D

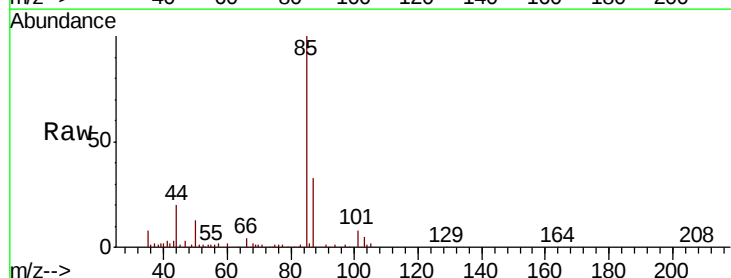
Acq: 6 Nov 2018 3:22

Tgt Ion: 85 Resp: 92200

Ion Ratio Lower Upper

85 100

87 32.7 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

30000

25000

20000

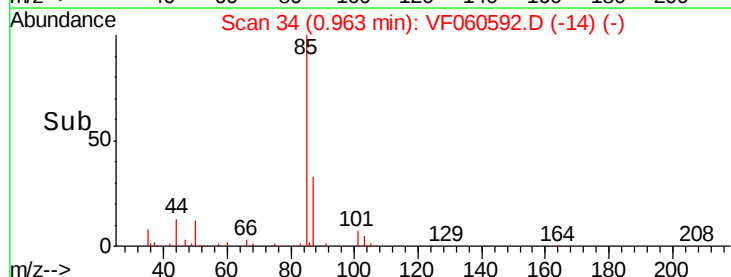
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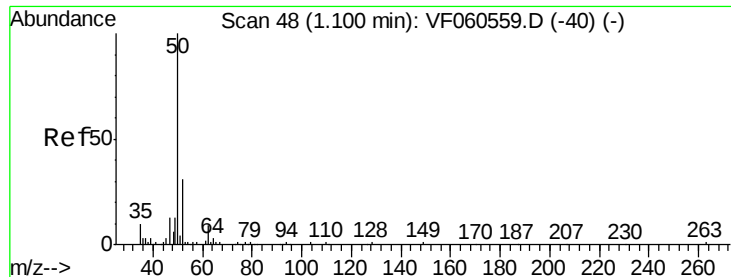
10000

5000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 26.834 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 50 Resp: 57870

Ion Ratio Lower Upper

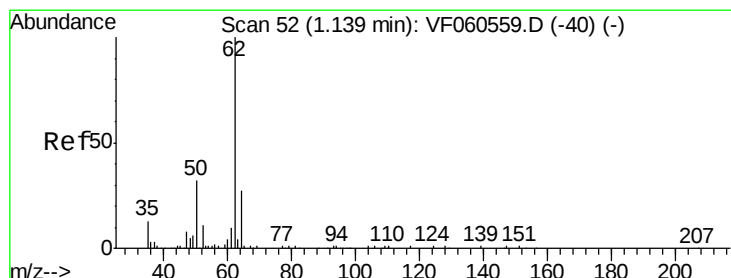
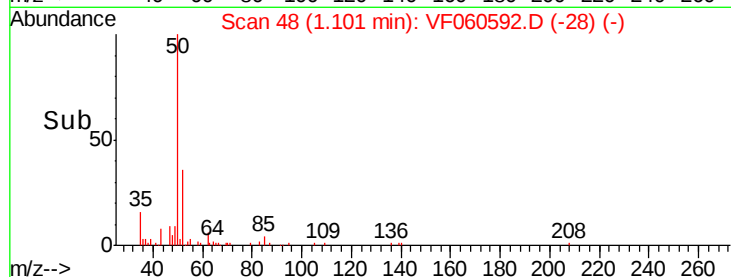
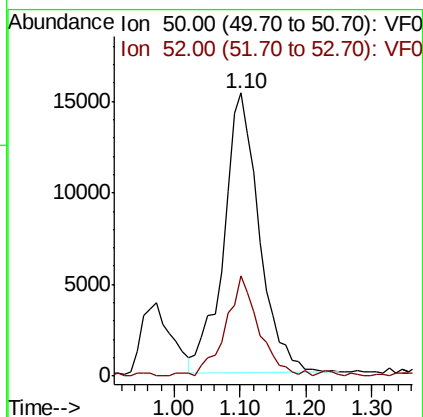
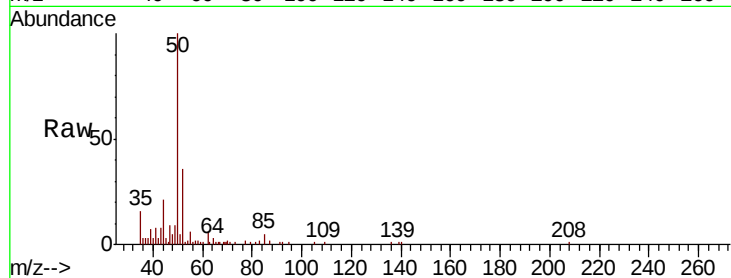
50 100

52 35.7 24.0 36.0

Manual Integrations
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#4

Vinyl Chloride

Concen: 23.787 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF060592.D

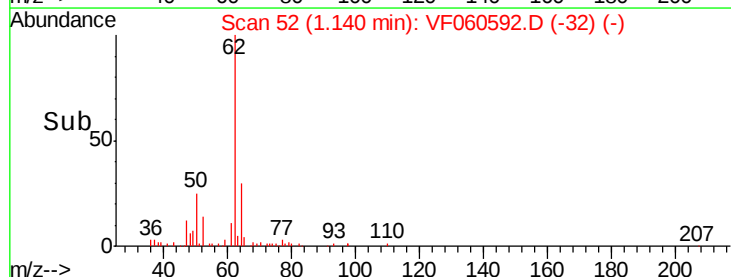
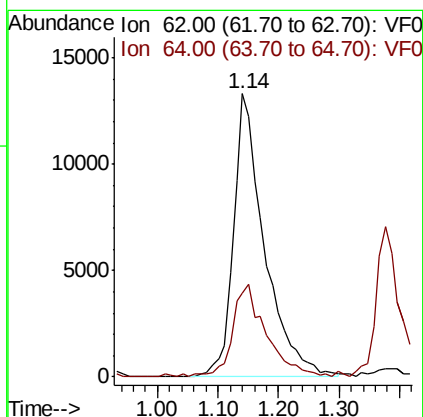
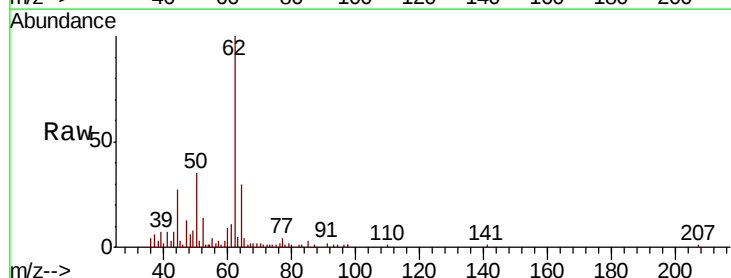
Acq: 6 Nov 2018 3:22

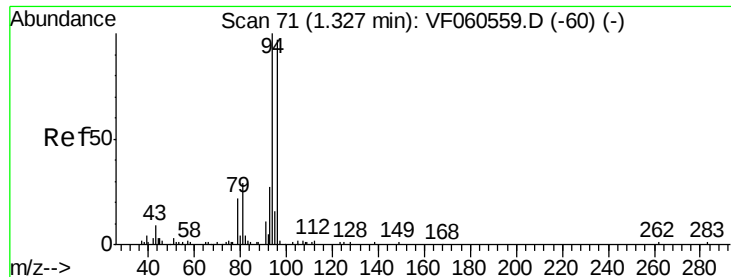
Tgt Ion: 62 Resp: 47270

Ion Ratio Lower Upper

62 100

64 29.6 21.8 32.6





#5

Bromomethane

Concen: 23.251 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 94 Resp: 25936

Ion Ratio Lower Upper

94 100

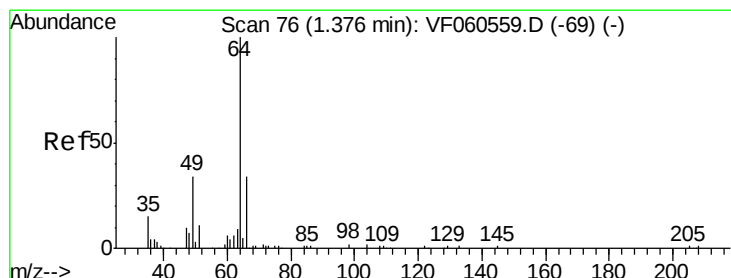
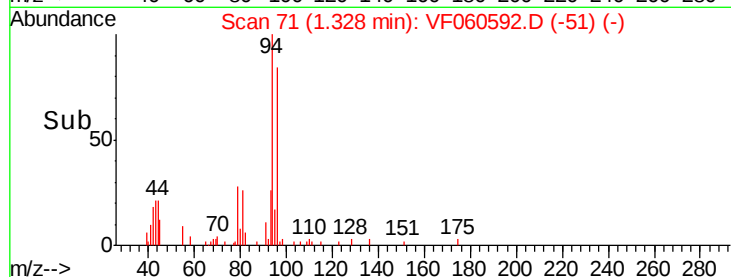
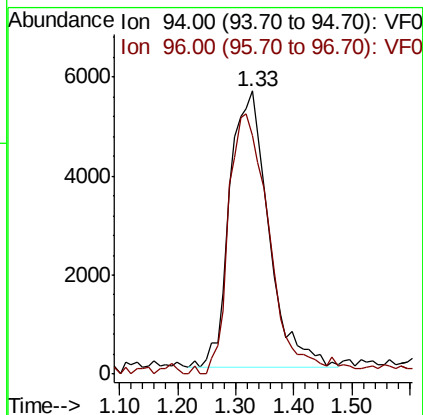
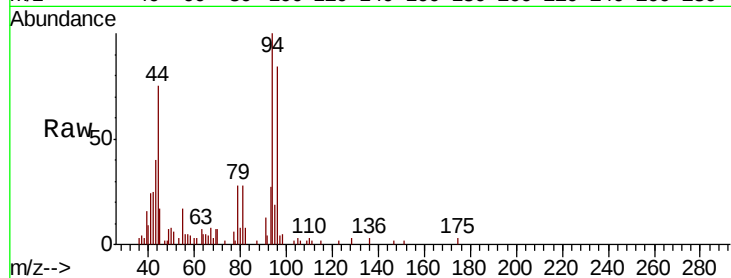
96 84.4 77.9 116.9

Manual Integrations

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#6

Chloroethane

Concen: 24.923 ug/l

RT: 1.38 min Scan# 76

Delta R.T. 0.00 min

Lab File: VF060592.D

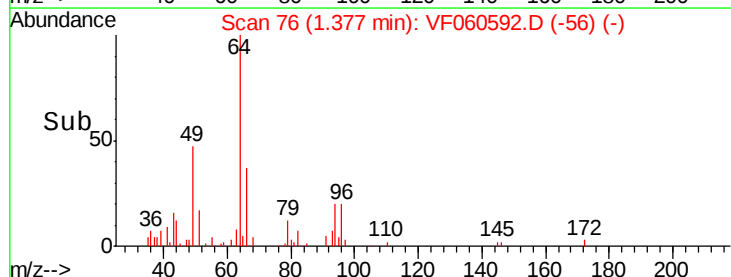
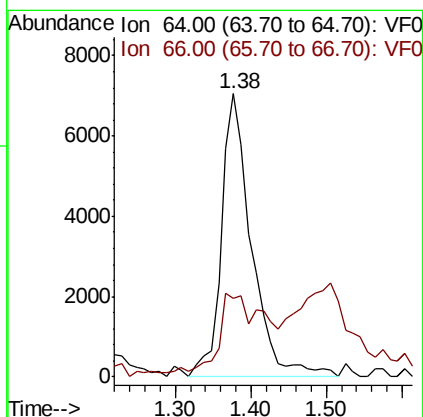
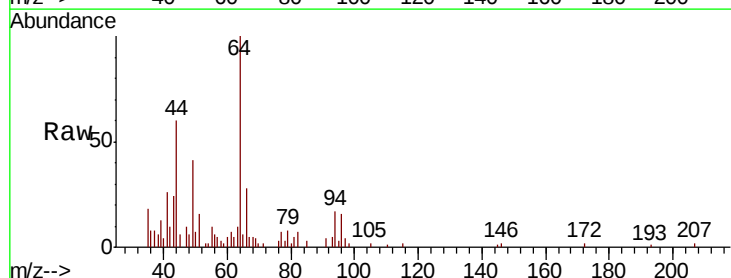
Acq: 6 Nov 2018 3:22

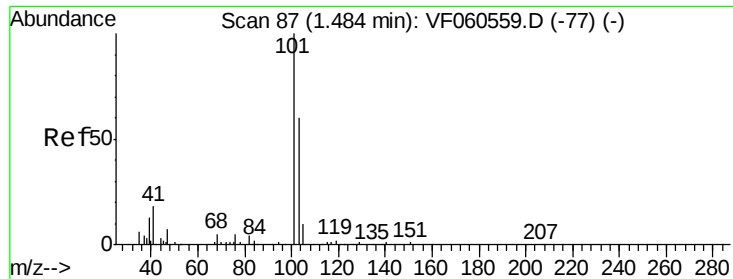
Tgt Ion: 64 Resp: 19429

Ion Ratio Lower Upper

64 100

66 28.0 27.8 41.8





#7

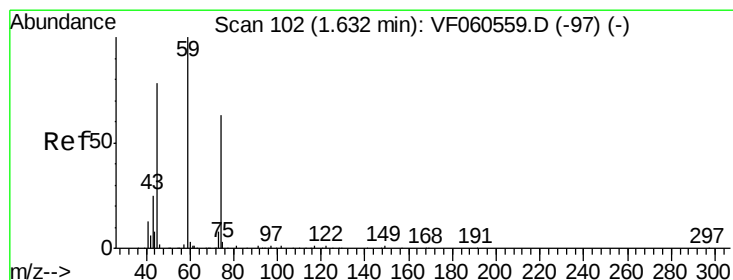
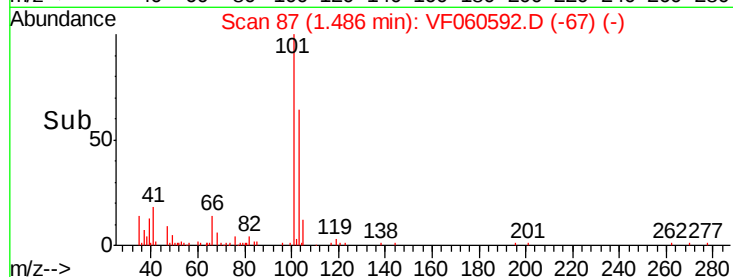
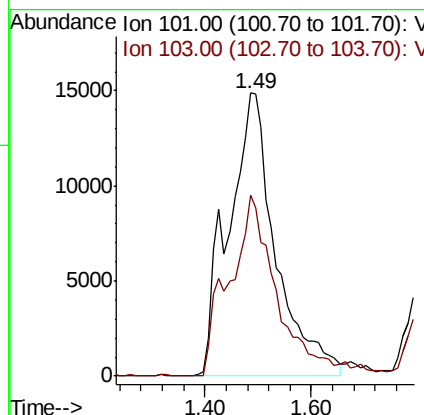
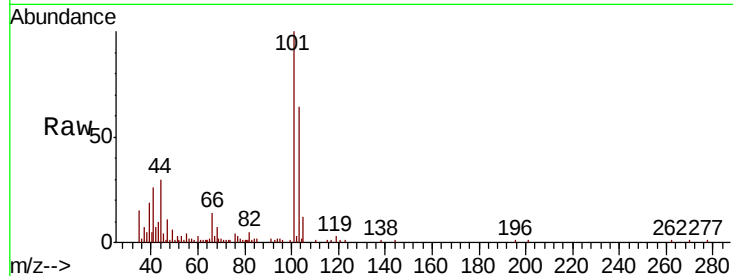
Trichlorofluoromethane
Concen: 24.883 ug/l m
RT: 1.49 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

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ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	48.0	72.0

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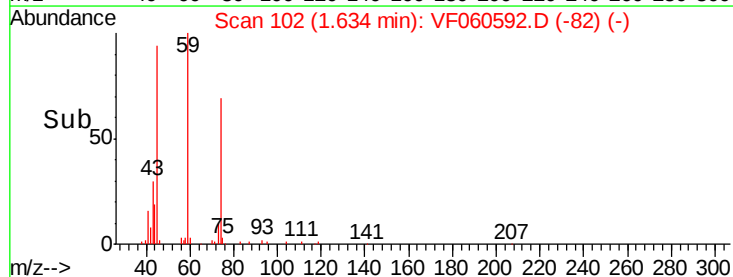
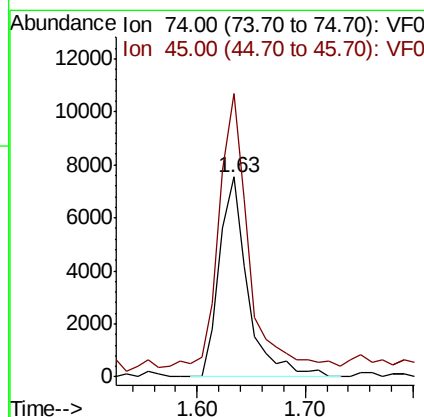
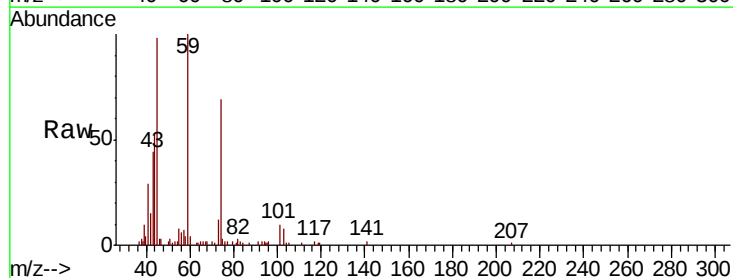
MMDadoda
11/6/2018 12:53:53 PM

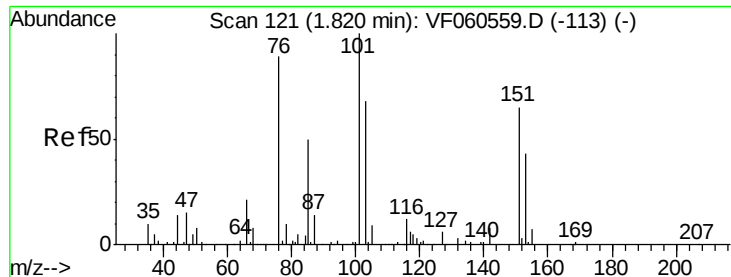


#8

Diethyl Ether
Concen: 20.033 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
74	100		
45	141.7	63.8	191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.649 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

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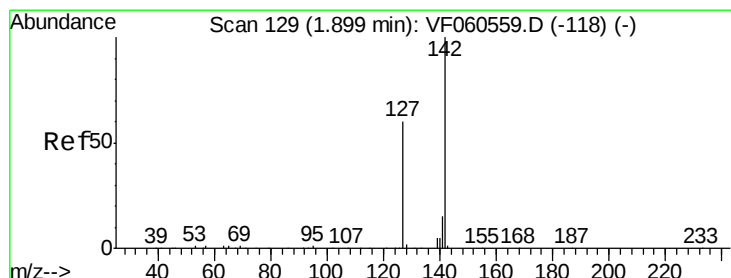
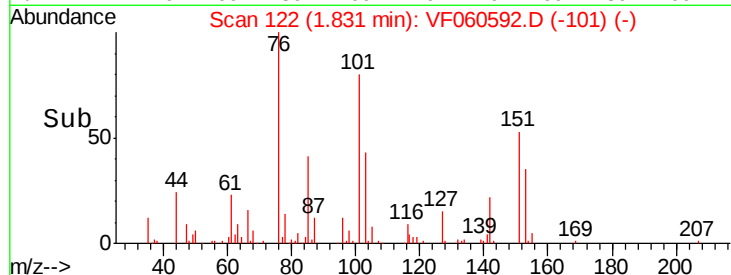
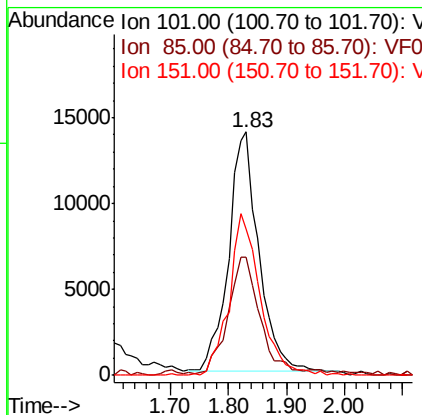
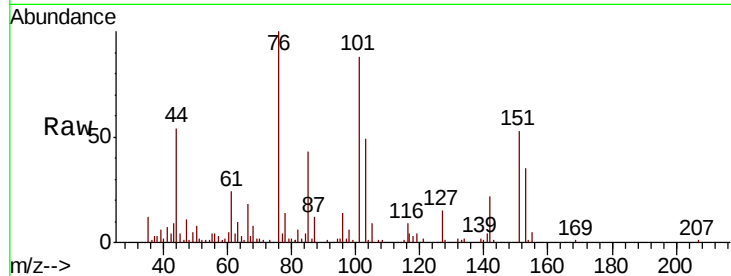
ClientSampleId :

VF1105SBS02

Tot Ion:	101	Resp:	50264
Ion Ratio	Lower	Upper	
101	100		
85	48.6	39.8	59.6
151	60.2	50.8	76.2

Manual Integrations
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11/6/2018 12:53:53 PM



#10

Methyl Iodide

Concen: 23.921 ug/l m

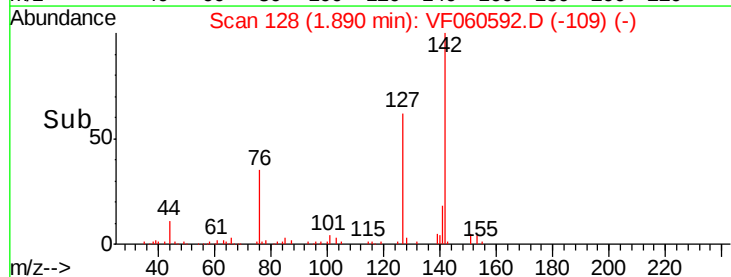
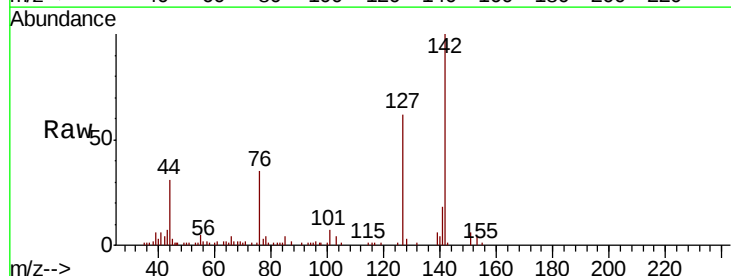
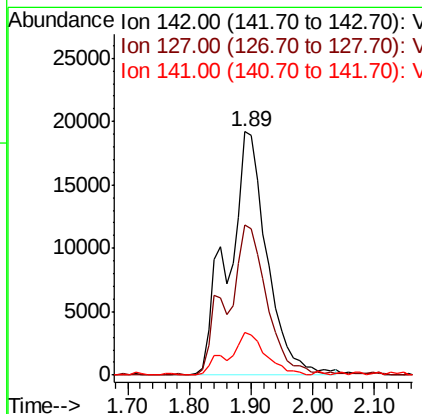
RT: 1.89 min Scan# 128

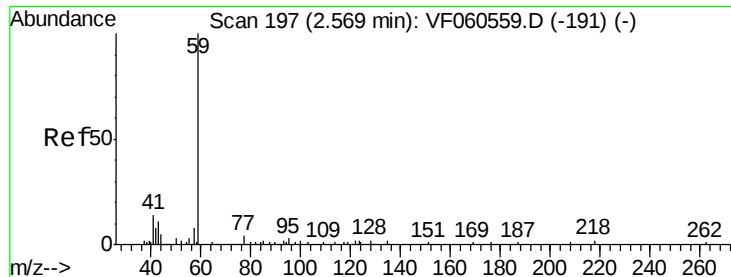
Delta R.T. -0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion:	142	Resp:	83667
Ion Ratio	Lower	Upper	
142	100		
127	61.7	47.8	71.6
141	17.5	12.7	19.1





#11

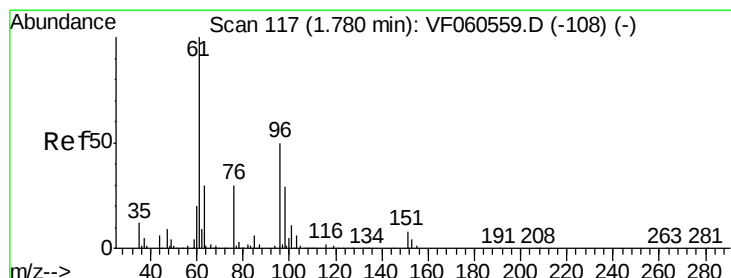
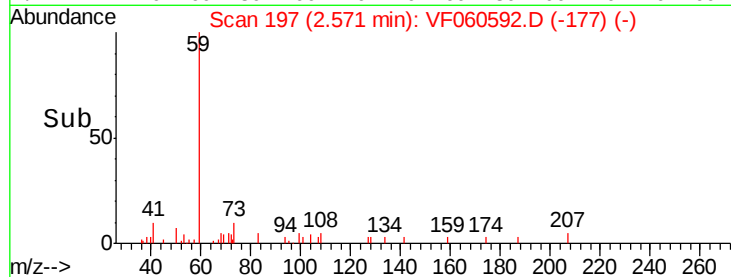
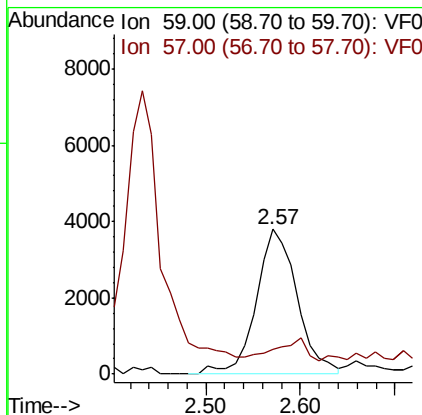
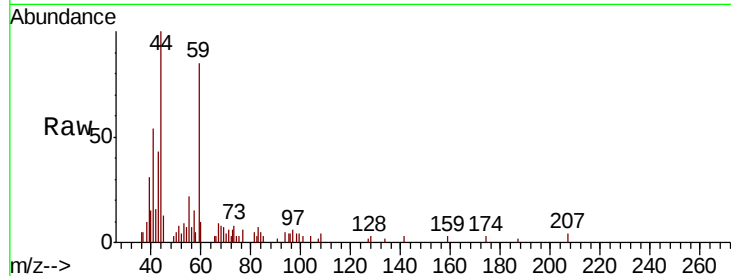
Tert butyl alcohol
Concen: 83.848 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	17.5	19.0	28.4#

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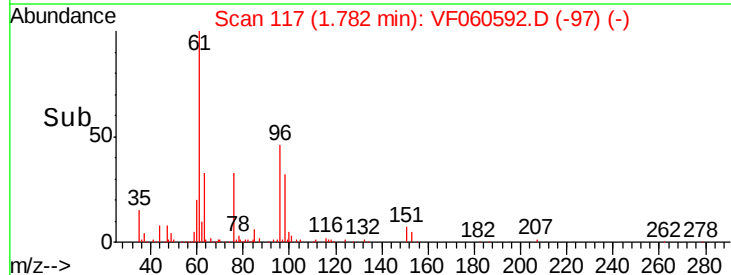
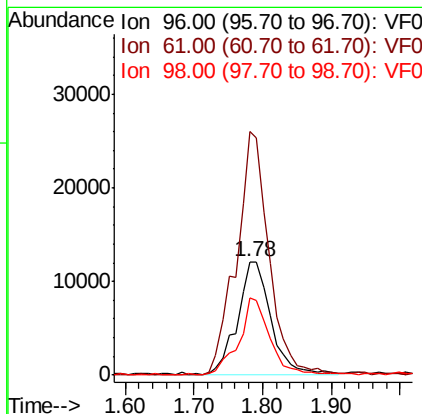
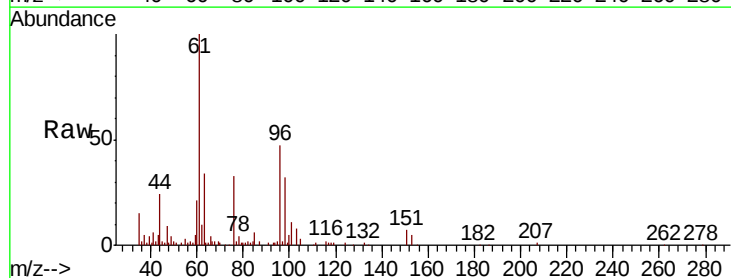
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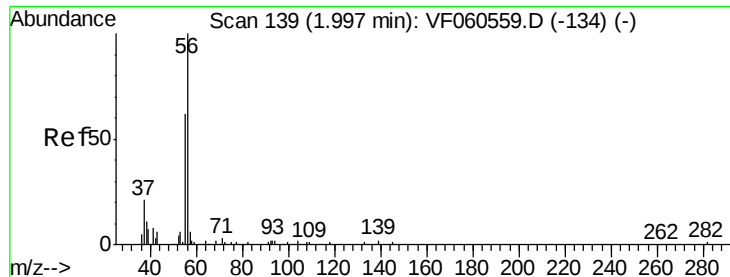


#12

1,1-Dichloroethene
Concen: 23.075 ug/l
RT: 1.78 min Scan# 117
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	214.6	158.1	237.1
98	68.0	47.0	70.6





#13

Acrolein

Concen: 101.525 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 56 Resp: 9925

Ion Ratio Lower Upper

56 100

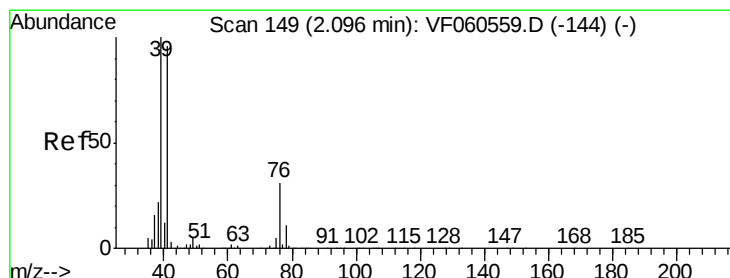
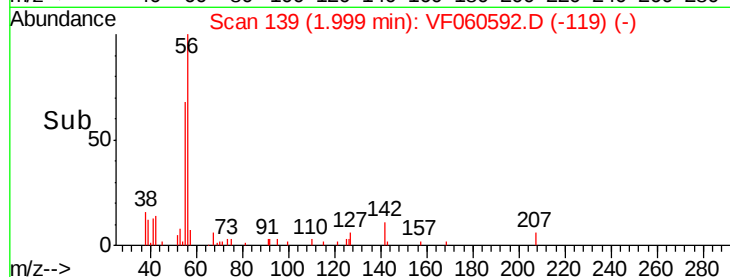
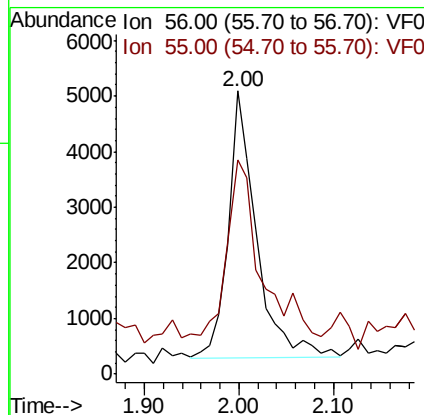
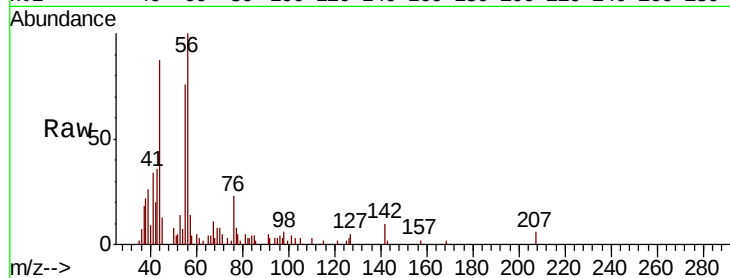
55 75.8 61.8 92.6

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#14

Allyl chloride

Concen: 23.623 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

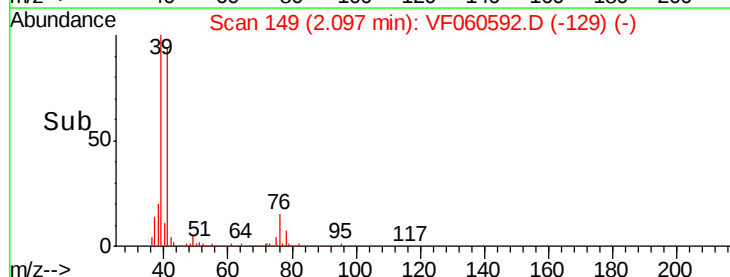
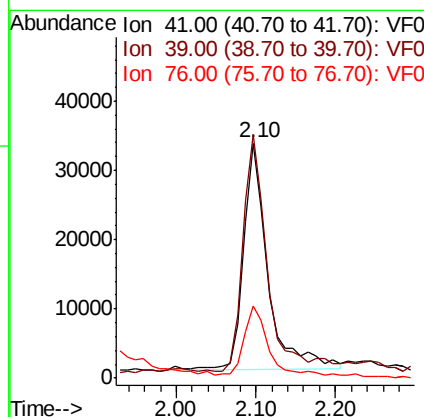
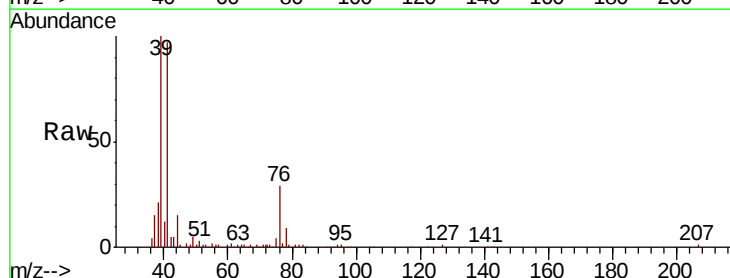
Tgt Ion: 41 Resp: 69051

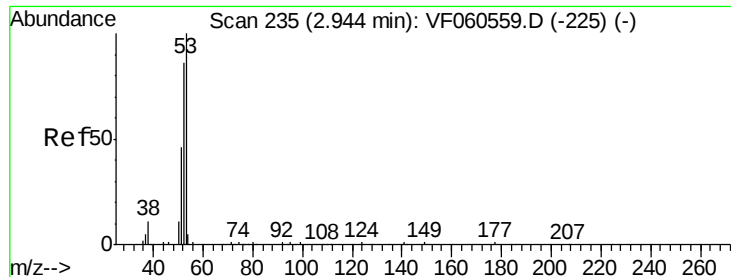
Ion Ratio Lower Upper

41 100

39 103.6 82.6 124.0

76 30.5 26.7 40.1





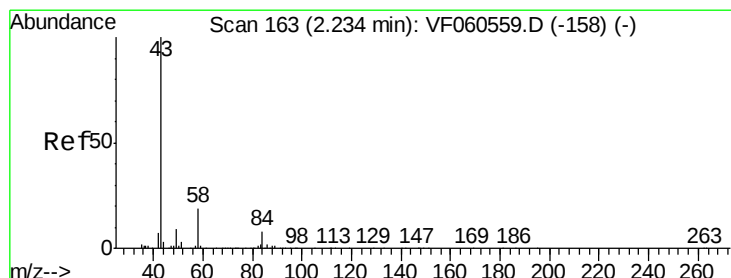
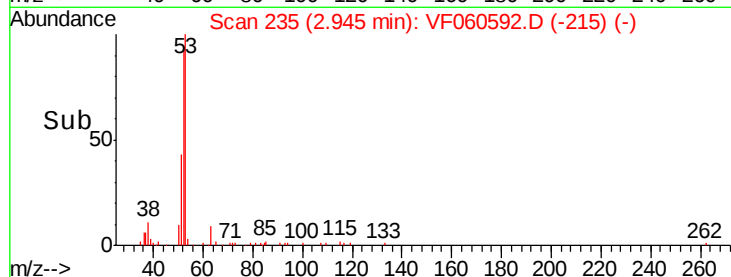
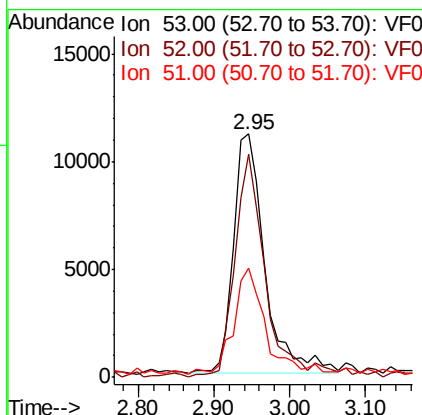
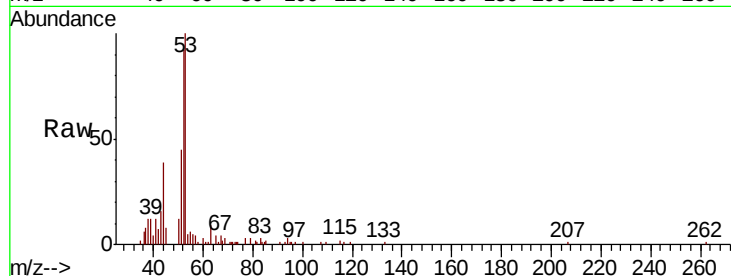
#15
 Acrylonitrile
 Concen: 106.838 ug/l
 RT: 2.95 min Scan# 235
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Instrument :
 MSVOA_F
 ClientSampleID :
 VF1105SBS02

Tot Ion:	53	Resp:	31701
Ion	Ratio	Lower	Upper
53	100		
52	91.7	68.5	102.7
51	45.0	38.2	57.2

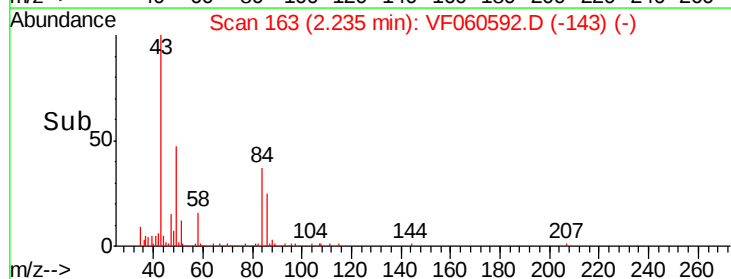
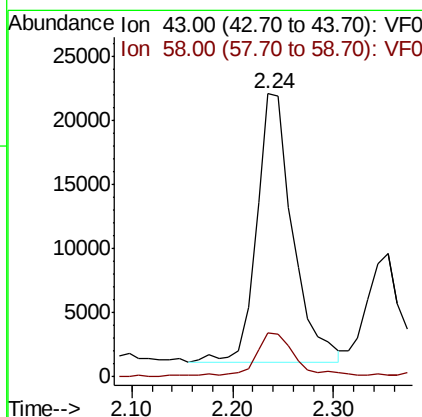
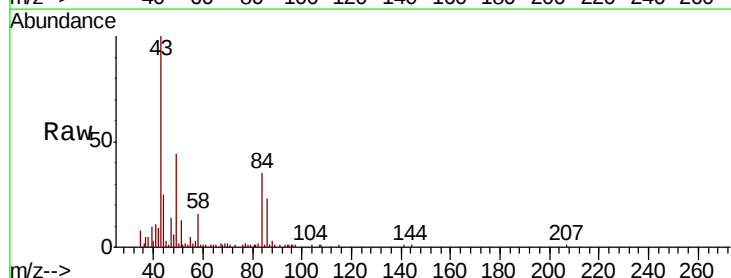
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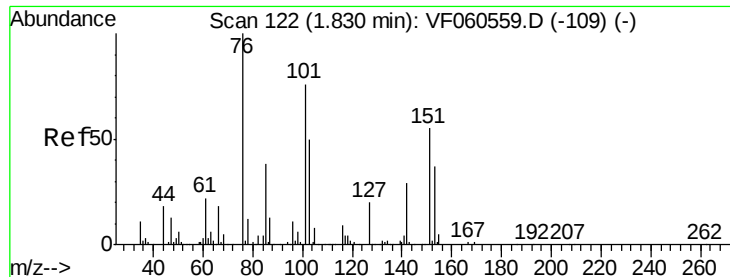
MMDadoda
 11/6/2018 12:53:53 PM



#16
 Acetone
 Concen: 88.662 ug/l
 RT: 2.24 min Scan# 163
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Tgt Ion:	43	Resp:	52015
Ion	Ratio	Lower	Upper
43	100		
58	15.7	14.6	22.0





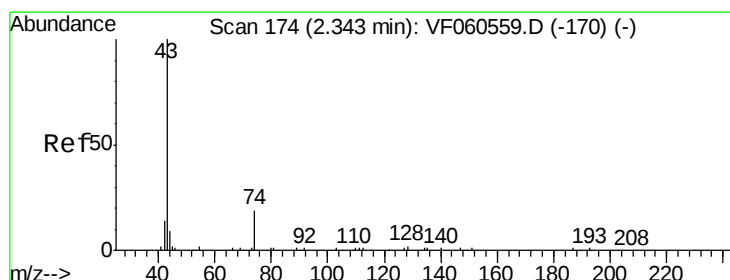
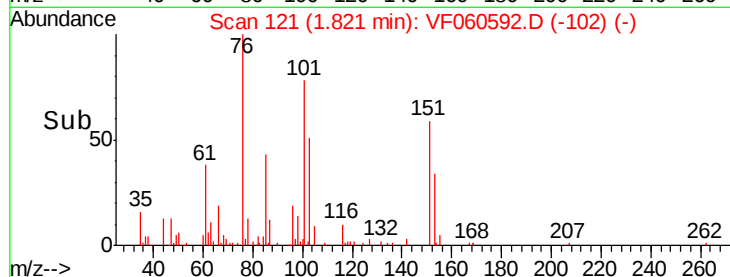
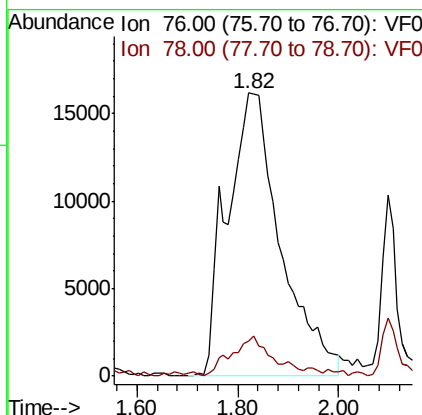
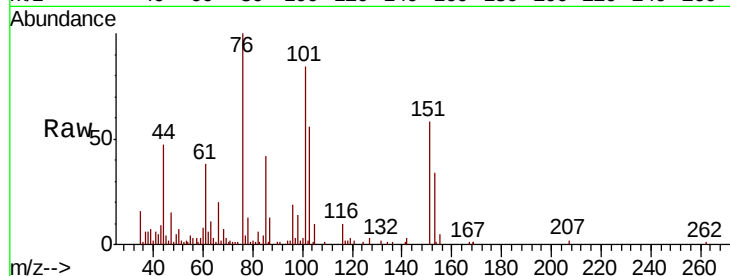
#17
Carbon Disulfide
Concen: 23.764 ug/l
RT: 1.82 min Scan# 121
Delta R.T. -0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.6	9.9	14.9

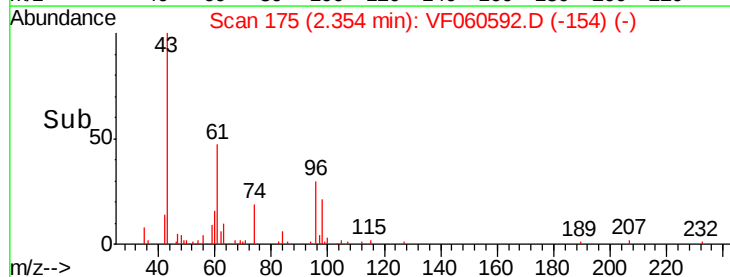
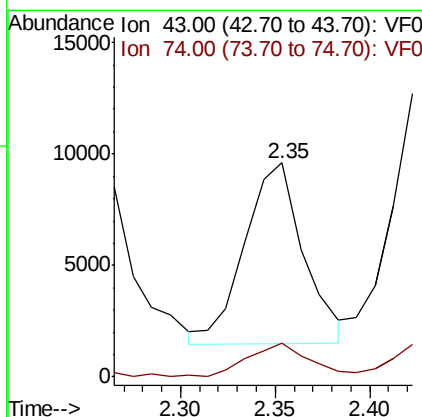
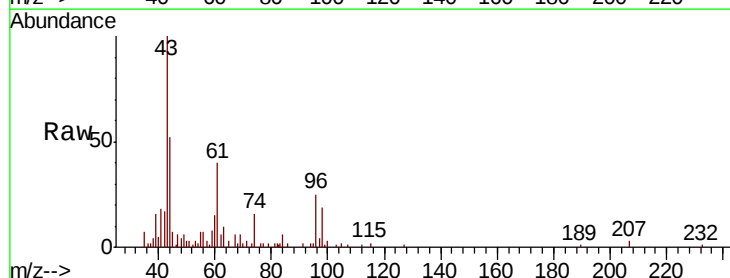
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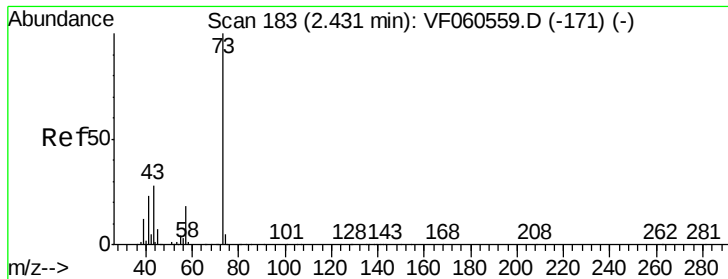
MMDadoda
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#18
Methyl Acetate
Concen: 19.652 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
43	100		
74	15.9	12.1	18.1





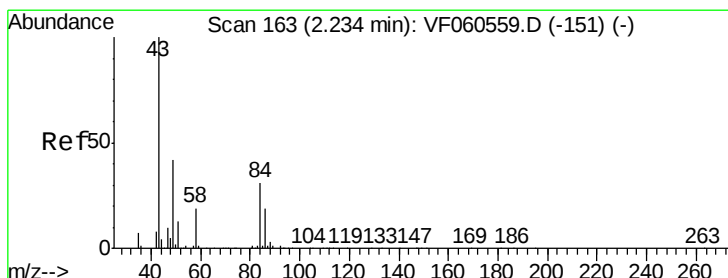
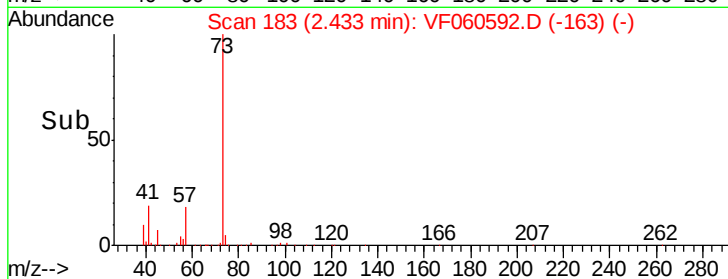
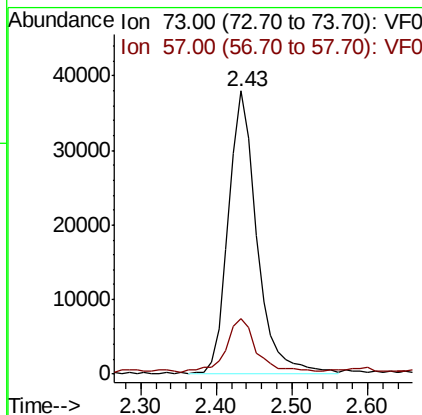
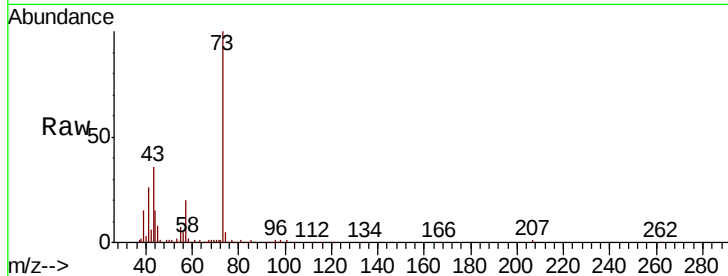
#19
Methyl tert-butyl Ether
Concen: 23.788 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.6	15.4	23.0

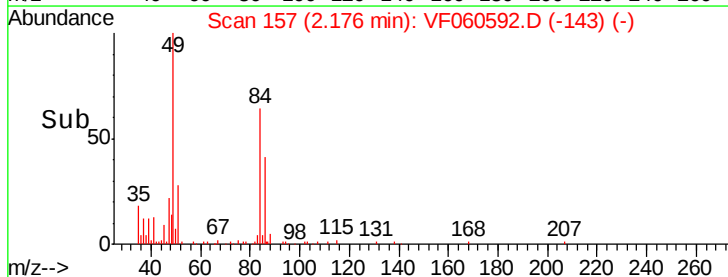
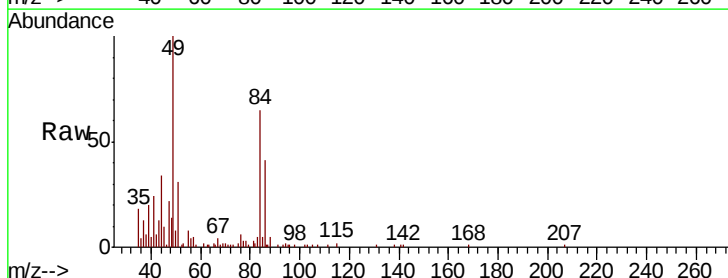
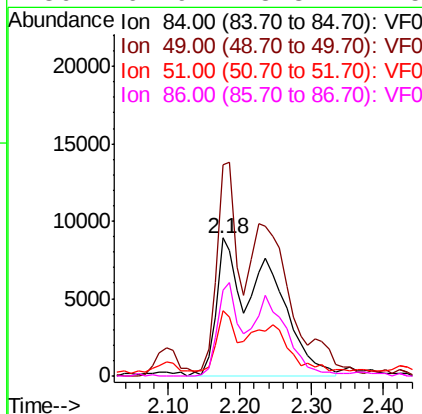
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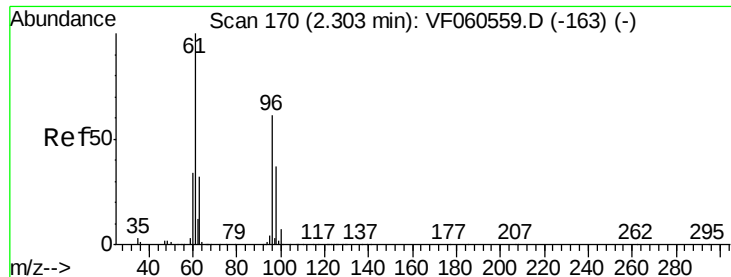
MMDadoda
11/6/2018 12:53:53 PM



#20
Methylene Chloride
Concen: 23.092 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.06 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
84	100		
49	152.8	109.9	164.9
51	47.0	35.8	53.8
86	61.9	48.3	72.5





#21

trans-1,2-Dichloroethene

Concen: 23.503 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

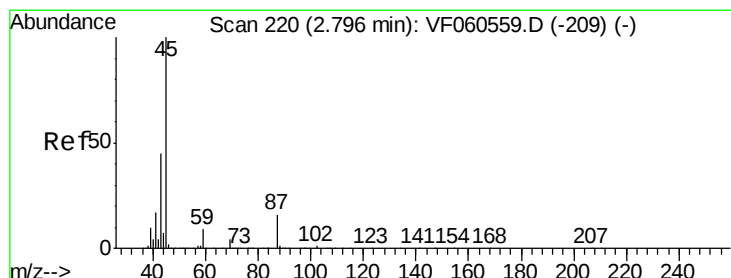
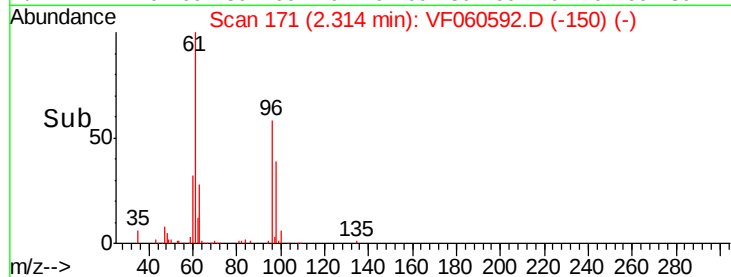
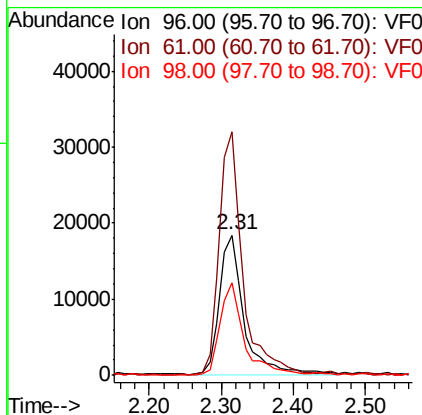
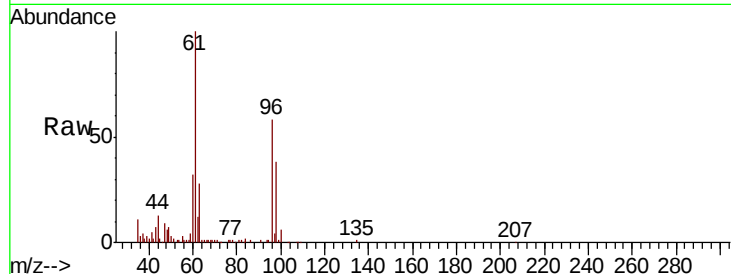
ClientSampleId :

VF1105SBS02

Tot Ion:	96	Resp:	44140
Ion	Ratio	Lower	Upper
96	100		
61	173.4	131.3	196.9
98	66.3	48.6	73.0

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#22

Diisopropyl ether

Concen: 23.675 ug/l

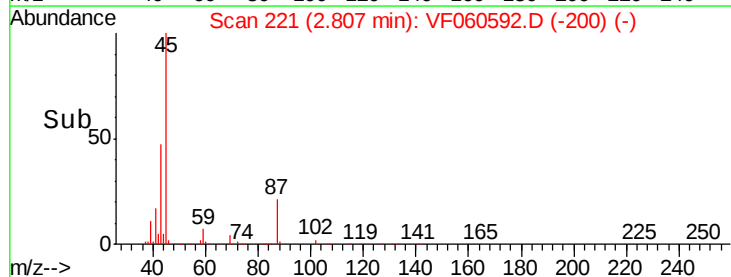
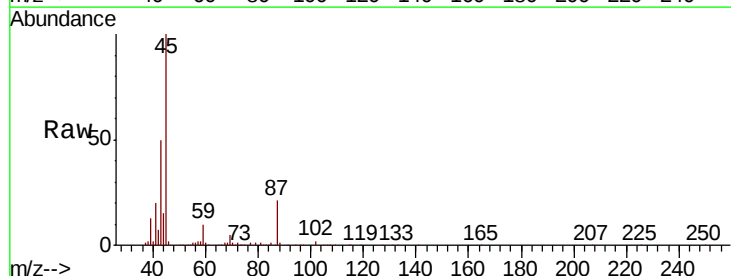
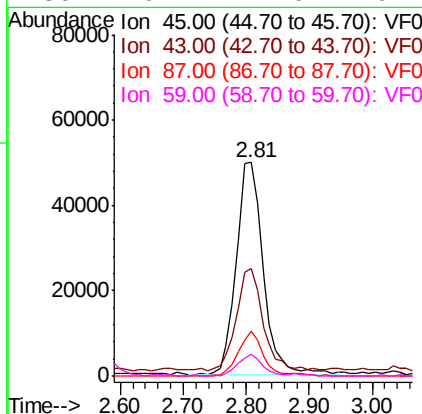
RT: 2.81 min Scan# 221

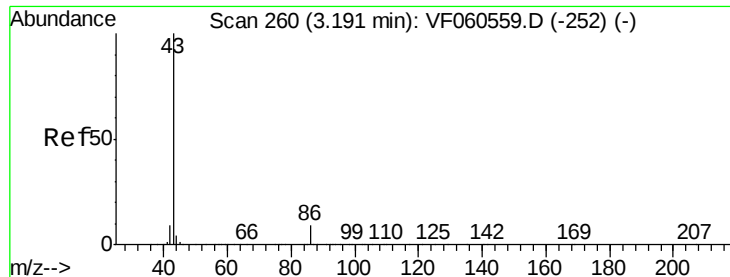
Delta R.T. 0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion:	45	Resp:	146621
Ion	Ratio	Lower	Upper
45	100		
43	50.1	38.1	57.1
87	21.1	12.7	19.1#
59	10.2	7.0	10.4





#23

Vinyl Acetate

Concen: 98.849 ug/l

RT: 3.19 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 43 Resp: 367812

Ion Ratio Lower Upper

43 100

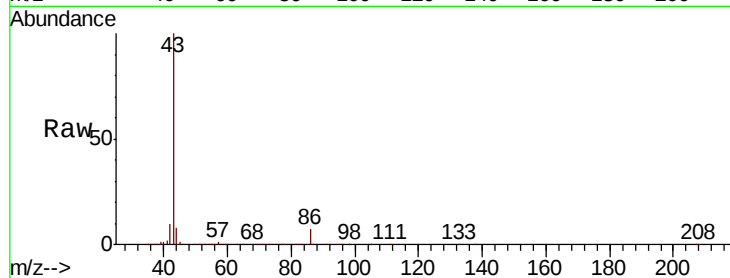
86 7.4 7.1 10.7

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

150000

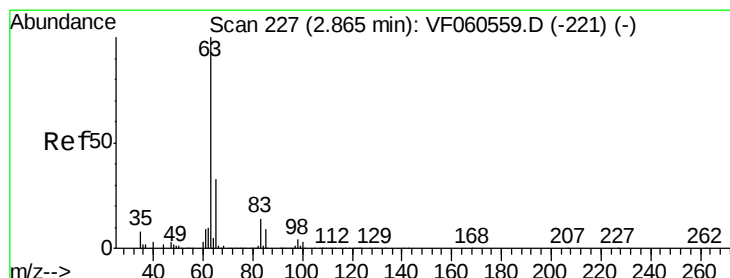
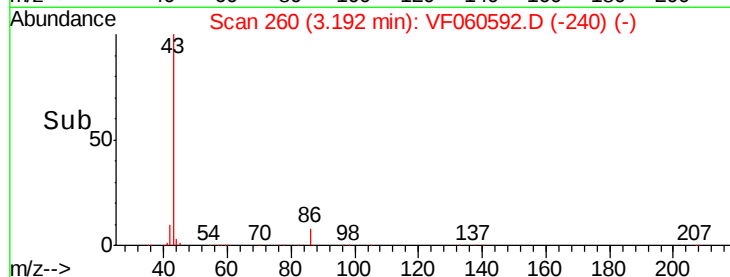
100000

50000

0

3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 24.032 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

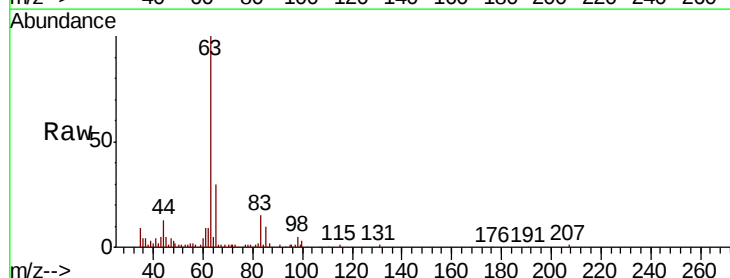
Tgt Ion: 63 Resp: 86134

Ion Ratio Lower Upper

63 100

98 5.3 2.2 6.6

100 2.9 1.4 4.0



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

40000

30000

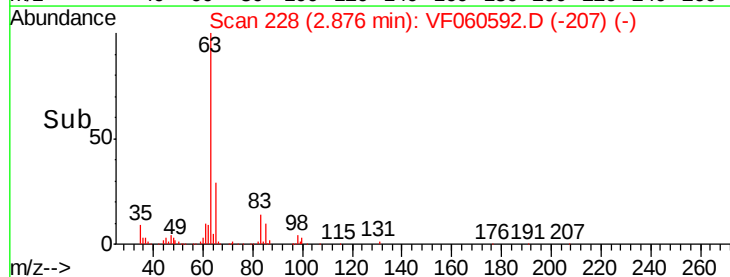
20000

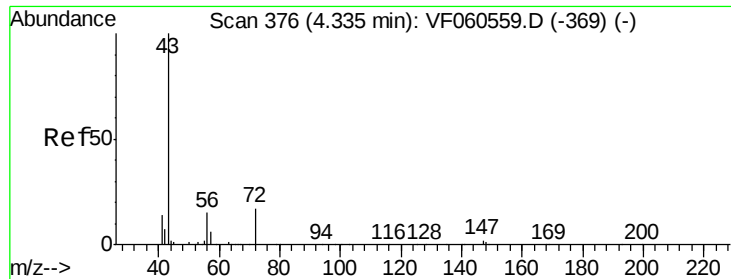
10000

0

2.70 2.80 2.90 3.00 3.10

Time-->





#25

2-Butanone

Concen: 90.561 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 43 Resp: 122488

Ion Ratio Lower Upper

43 100

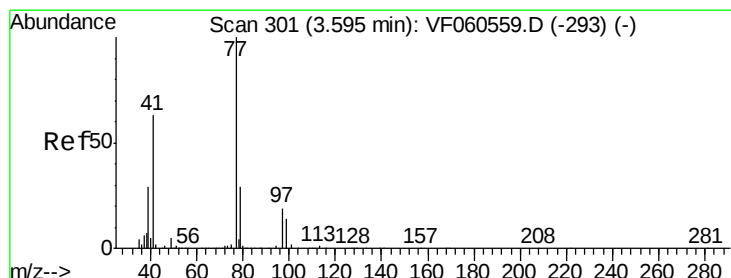
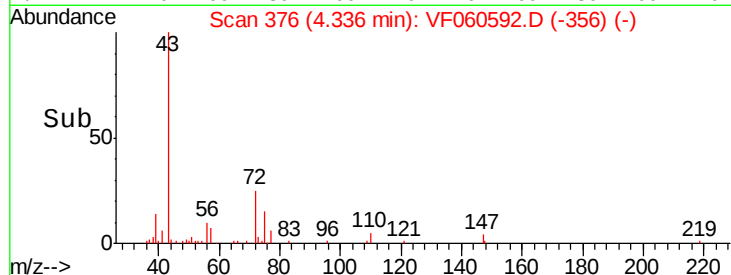
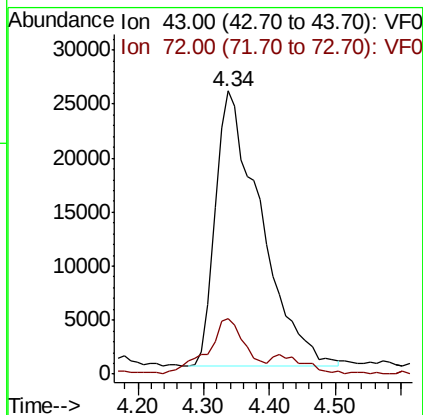
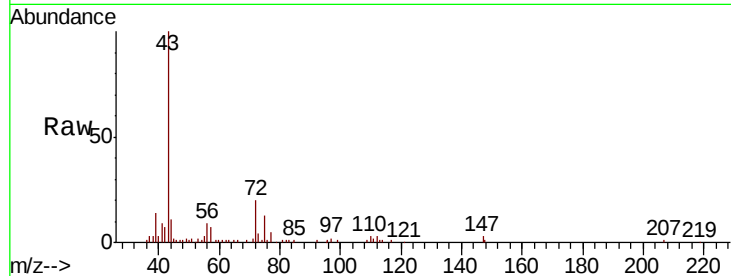
72 19.8 16.2 24.2

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#26

2,2-Dichloropropane

Concen: 21.841 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.00 min

Lab File: VF060592.D

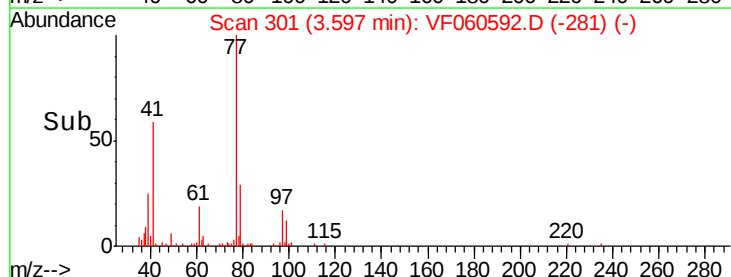
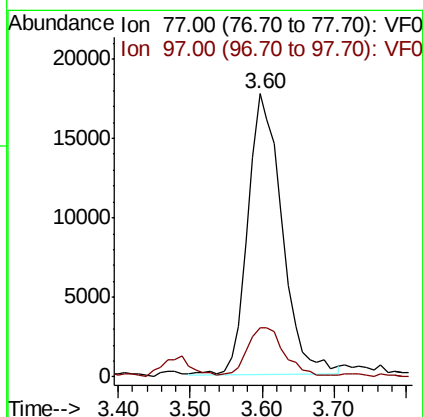
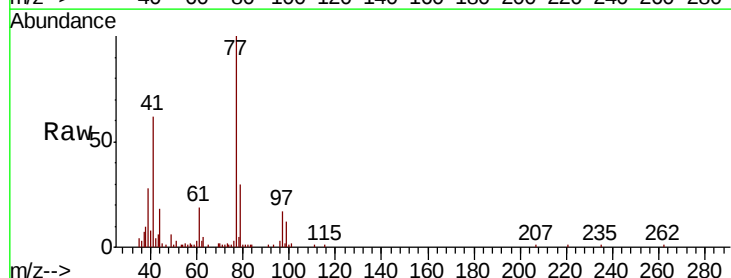
Acq: 6 Nov 2018 3:22

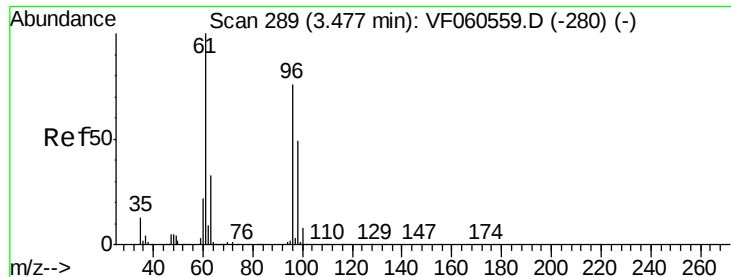
Tgt Ion: 77 Resp: 58574

Ion Ratio Lower Upper

77 100

97 17.4 9.8 29.3





#27

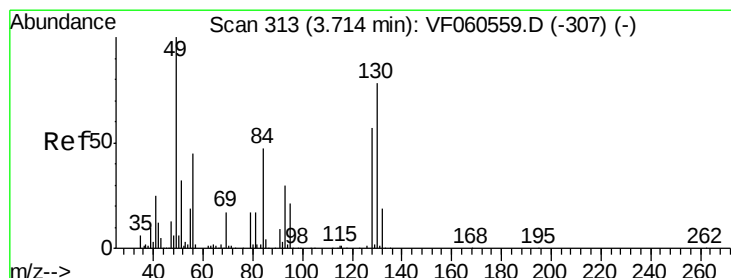
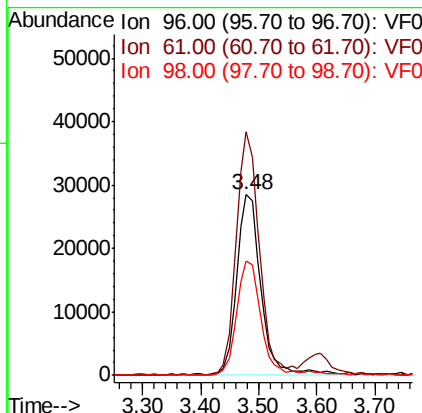
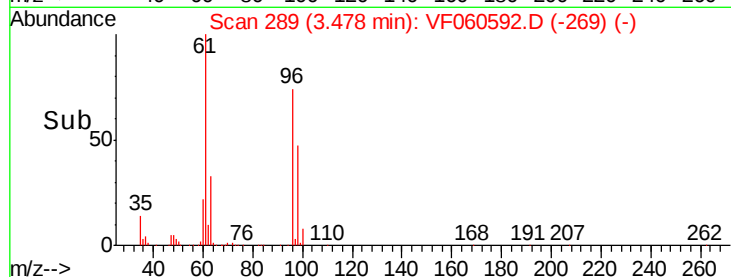
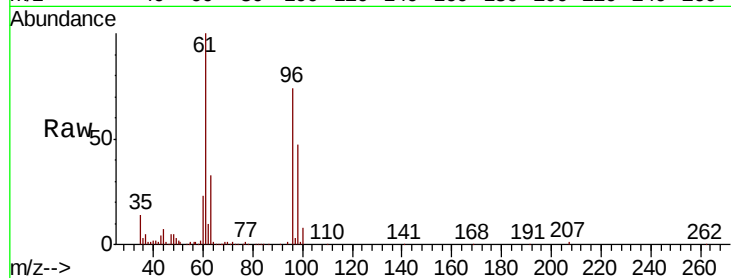
cis-1,2-Dichloroethene
Concen: 22.583 ug/l
RT: 3.48 min Scan# 289
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.9	0.0	263.0
98	63.0	0.0	130.6

Manual Integrations
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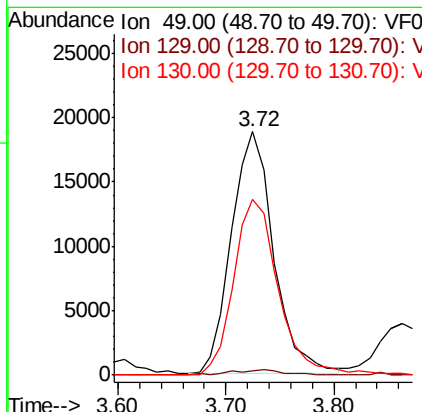
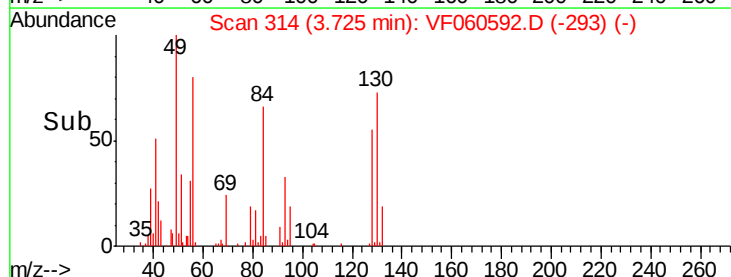
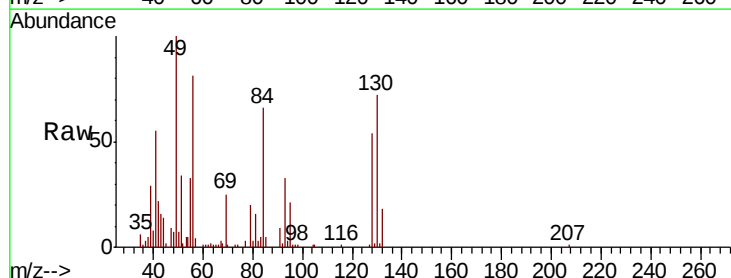
MMDadoda
11/6/2018 12:53:53 PM

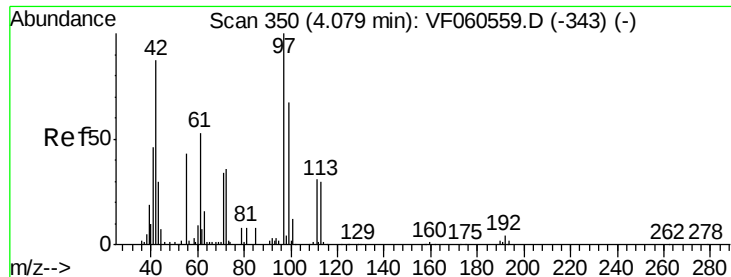


#28

Bromochloromethane
Concen: 22.861 ug/l
RT: 3.72 min Scan# 314
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.6
130	72.2	61.8	92.8





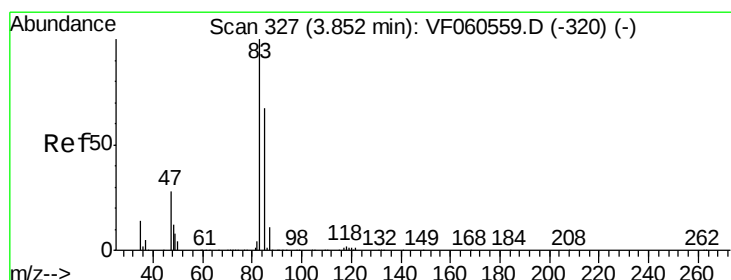
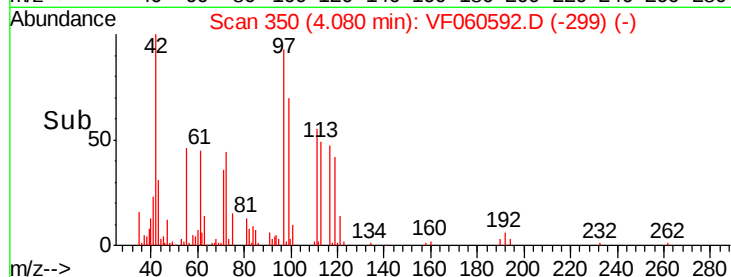
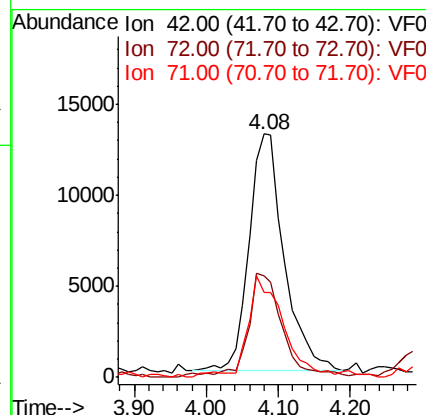
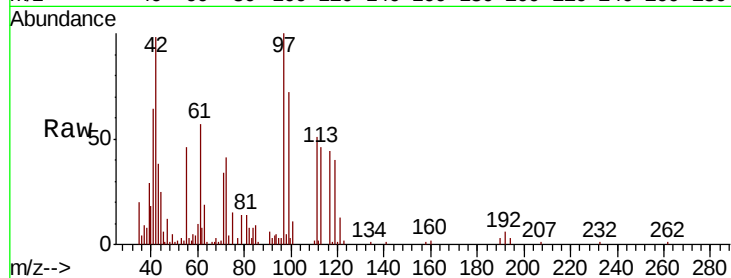
#29
Tetrahydrofuran
Concen: 94.900 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.7	31.4	47.0
71	38.8	31.8	47.6

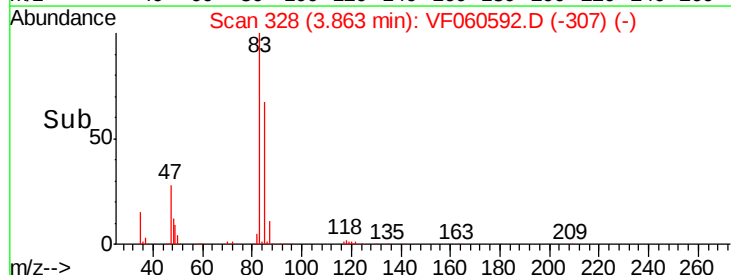
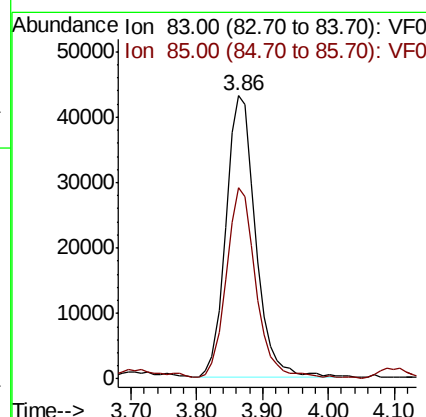
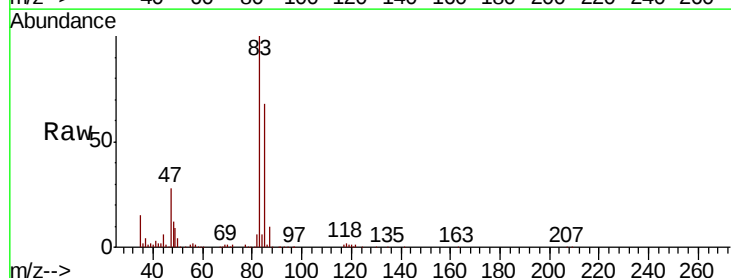
Manual Integrations
APPROVED

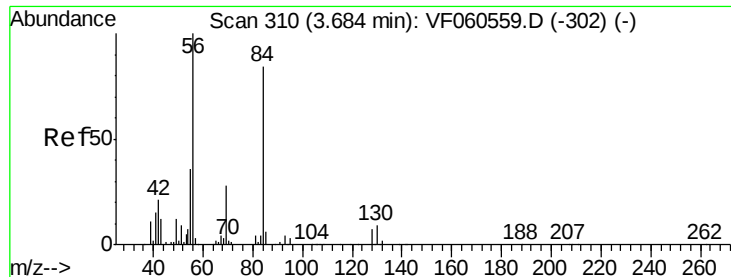
MMDadoda
11/6/2018 12:53:53 PM



#30
Chloroform
Concen: 23.659 ug/l
RT: 3.86 min Scan# 328
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.6	53.7	80.5





#31

Cyclohexane

Concen: 22.972 ug/l

RT: 3.70 min Scan# 311

Delta R.T. 0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

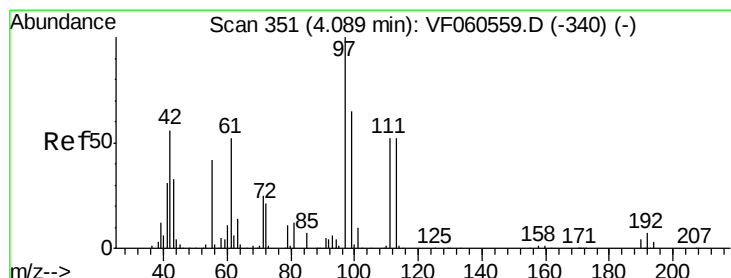
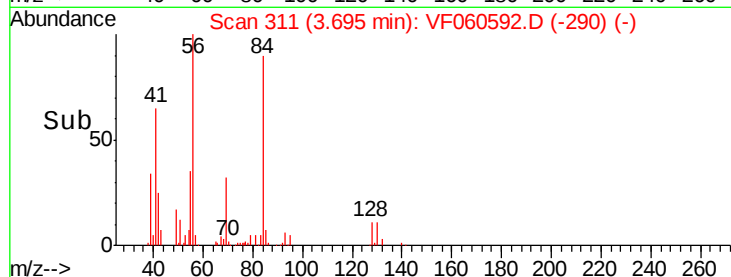
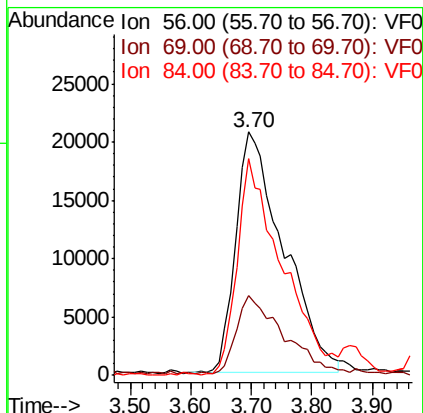
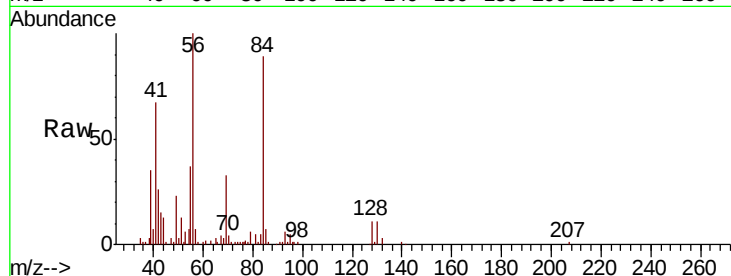
ClientSampleId :

VF1105SBS02

Tot Ion:	56	Resp:	113618
Ion	Ratio	Lower	Upper
56	100		
69	32.8	23.0	34.4
84	88.8	67.1	100.7

Manual Integrations
APPROVED

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11/6/2018 12:53:53 PM



#32

1,1,1-Trichloroethane

Concen: 25.281 ug/l

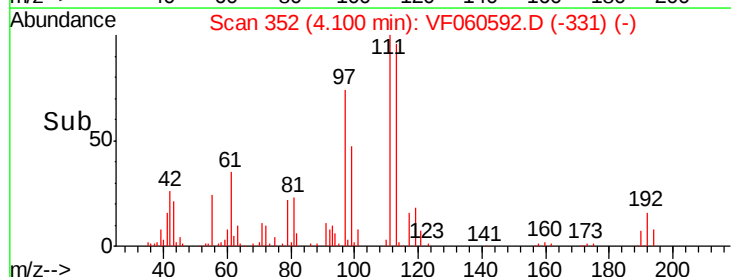
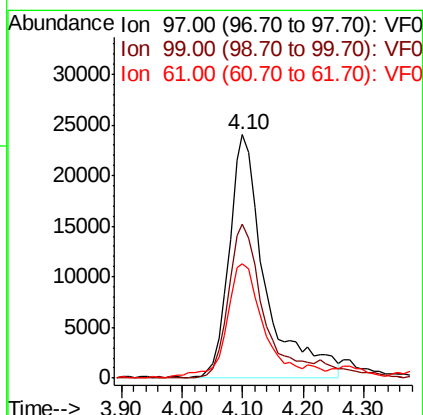
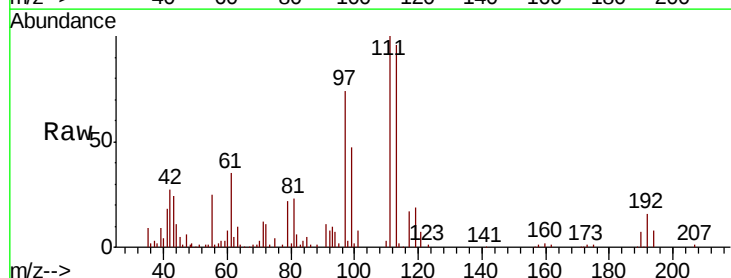
RT: 4.10 min Scan# 352

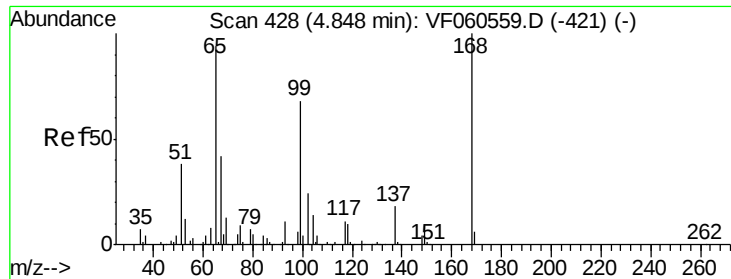
Delta R.T. 0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion:	97	Resp:	100122
Ion	Ratio	Lower	Upper
97	100		
99	63.2	52.4	78.6
61	47.2	41.5	62.3





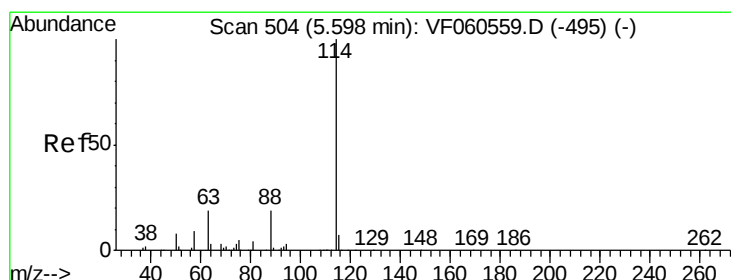
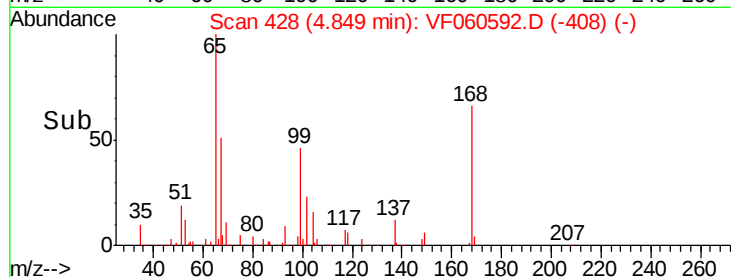
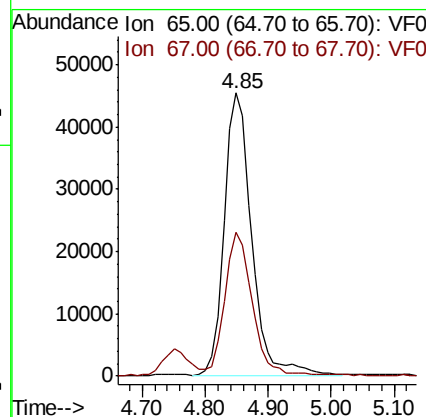
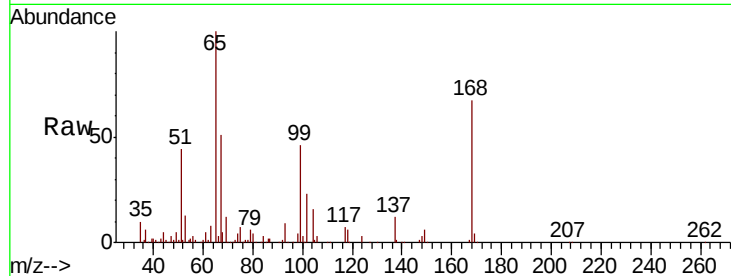
#33
 1,2-Dichloroethane-d4
 Concen: 54.955 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS02

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	101.8

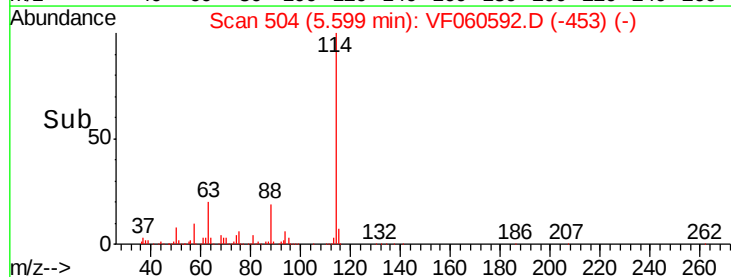
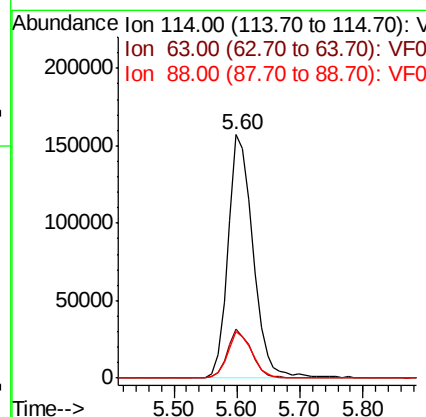
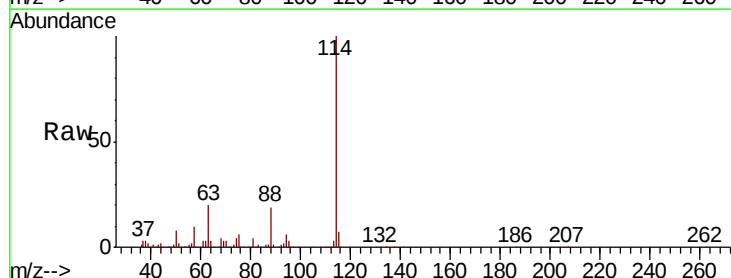
Manual Integrations
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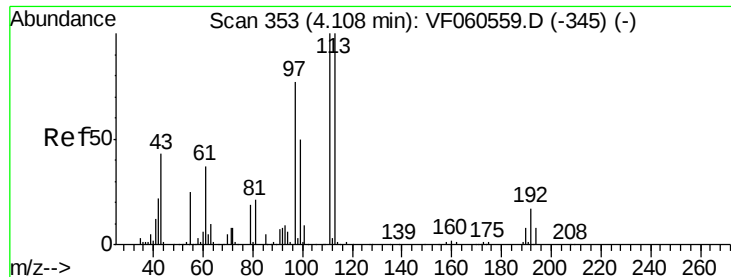
MMDadoda
 11/6/2018 12:53:53 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	39.0
88	19.1	0.0	38.2





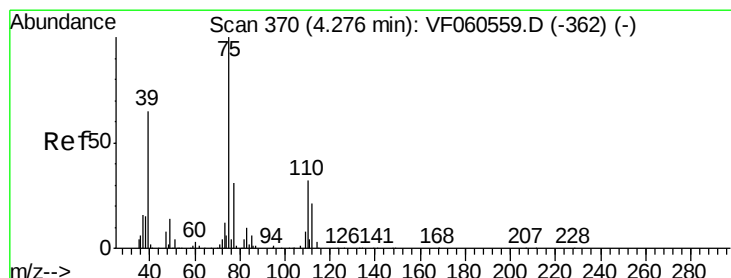
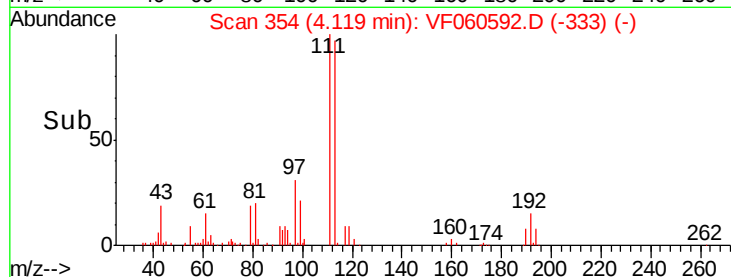
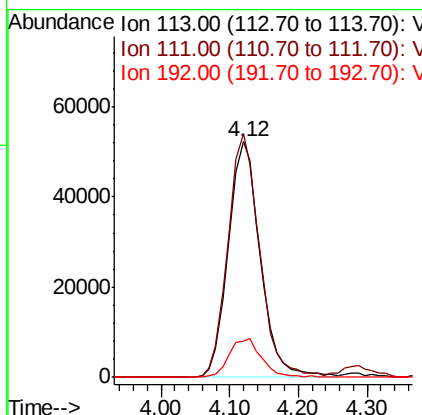
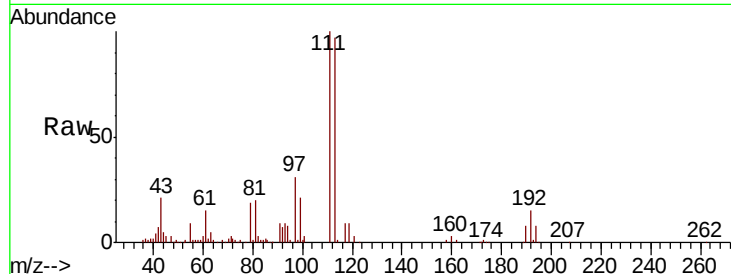
#35
 Dibromofluoromethane
 Concen: 50.484 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.4	79.9	119.9	
192	15.7	13.3	19.9	

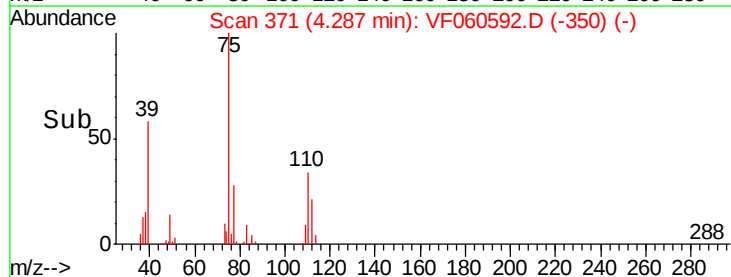
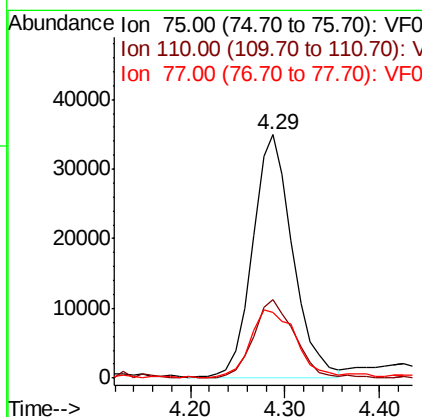
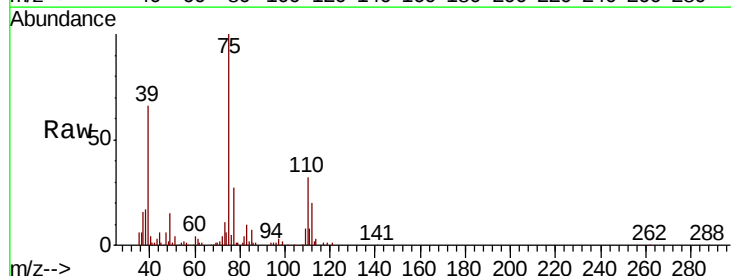
Manual Integrations
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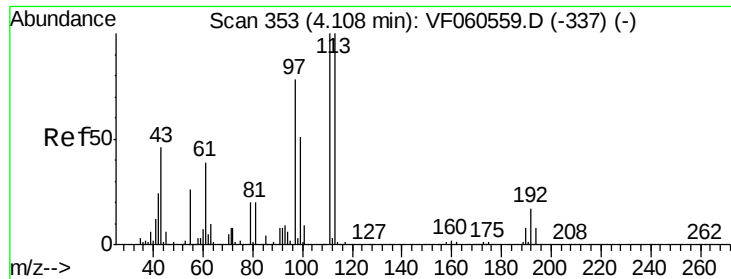
MMDadoda
 11/6/2018 12:53:53 PM



#36
 1,1-Dichloropropene
 Concen: 21.719 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	32.5	16.2	48.6	
77	27.0	25.0	37.6	





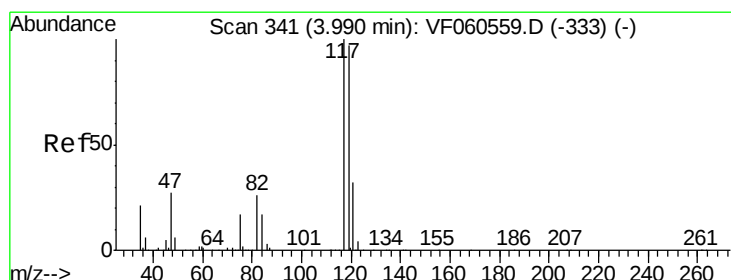
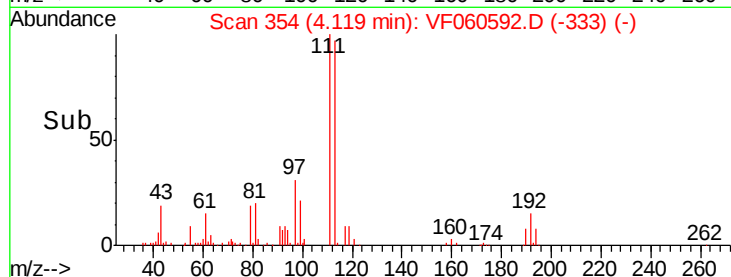
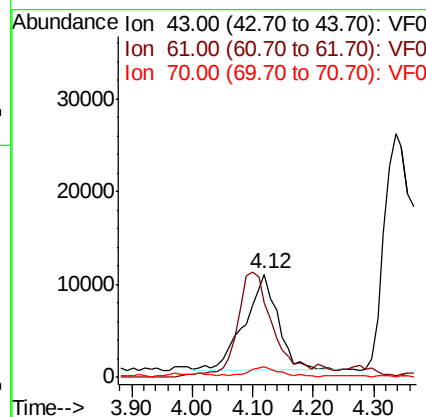
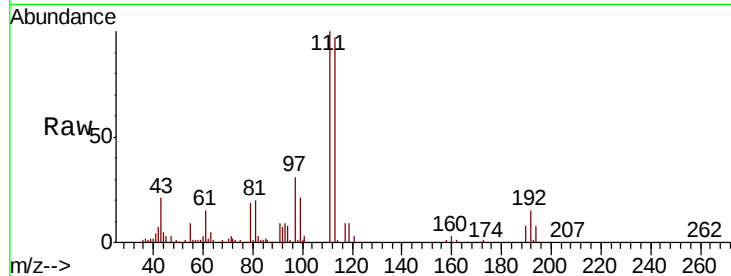
#37
Ethyl Acetate
Concen: 17.284 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	43	61	70	Ratio	Lower	Upper	Resp
43	100						39458
61	72.0				63.4	95.2	
70	10.3				9.3	13.9	

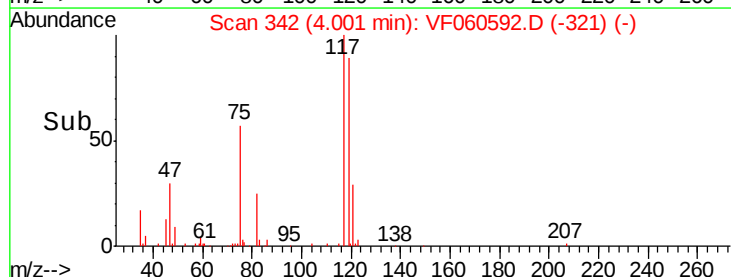
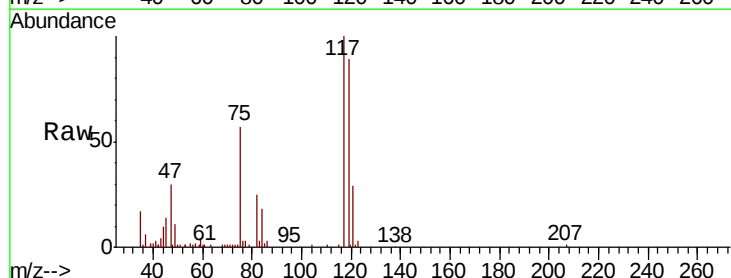
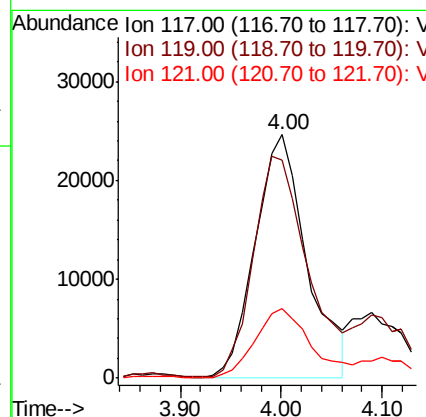
Manual Integrations
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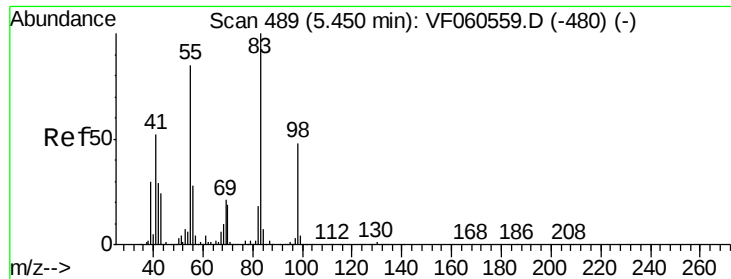
MMDadoda
11/6/2018 12:53:53 PM



#38
Carbon Tetrachloride
Concen: 21.655 ug/l
RT: 4.00 min Scan# 342
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	117	119	121	Ratio	Lower	Upper	Resp
117	100						88002
119	89.3				77.8	116.6	
121	28.5				25.6	38.4	





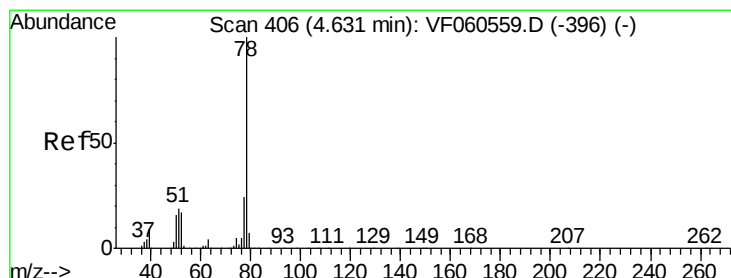
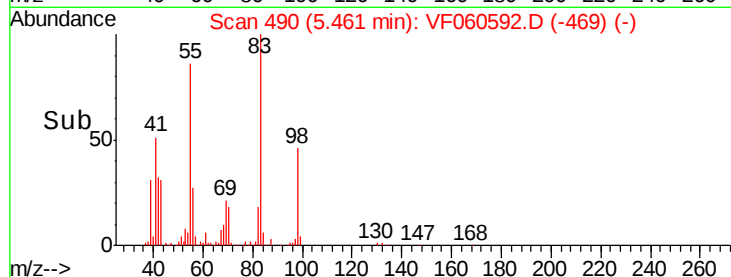
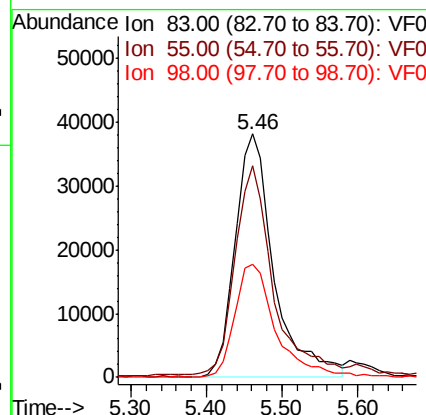
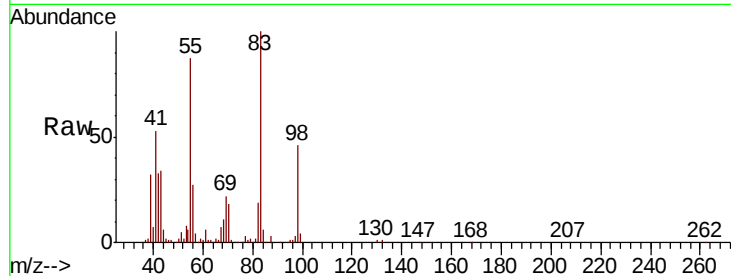
#39
Methvlcvclohexane
Concen: 23.346 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.9	69.1	103.7
98	46.3	38.6	57.8

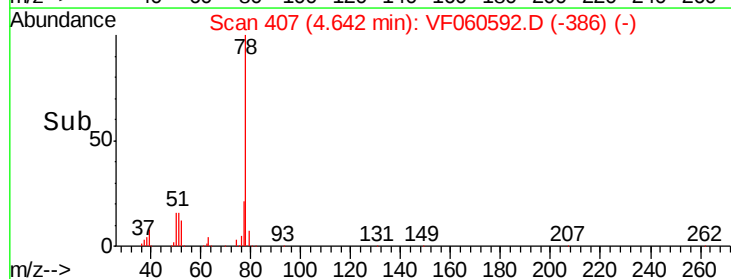
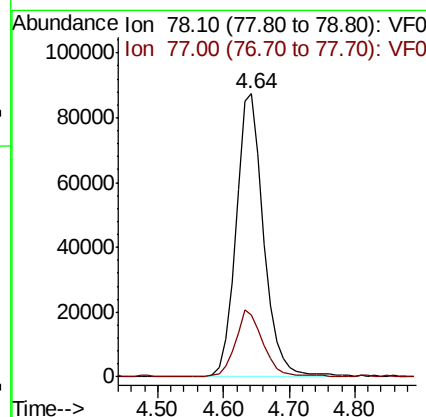
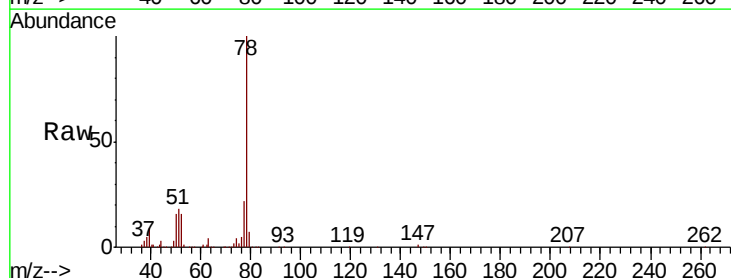
Manual Integrations
APPROVED

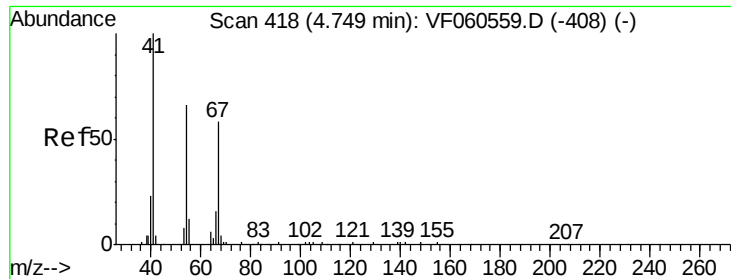
MMDadoda
11/6/2018 12:53:53 PM



#40
Benzene
Concen: 22.275 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.8	19.3	28.9





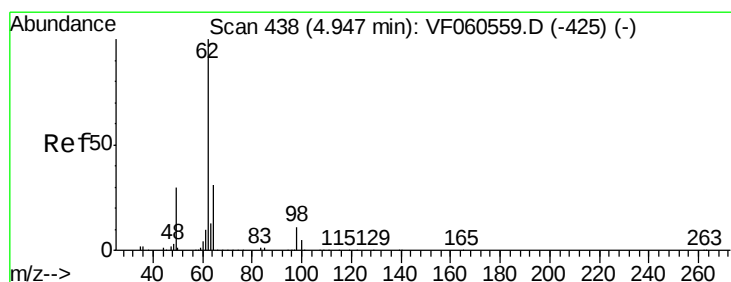
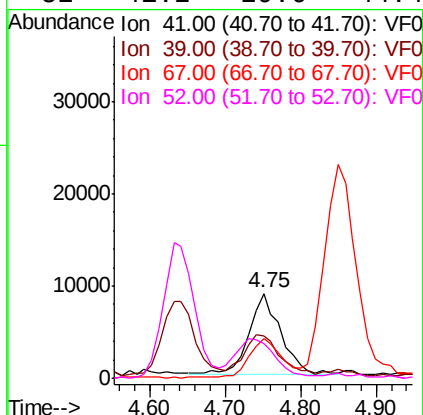
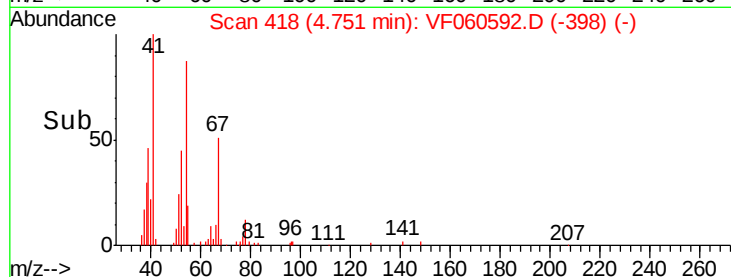
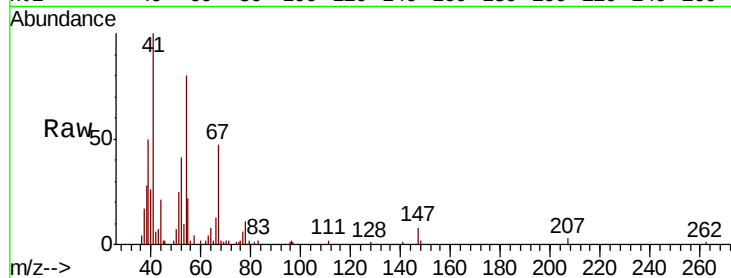
#41
Methacrylonitrile
Concen: 19.826 ug/l
RT: 4.75 min Scan# 418
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	50.4	45.6	68.4	
67	47.3	45.3	67.9	
52	41.2	29.6	44.4	

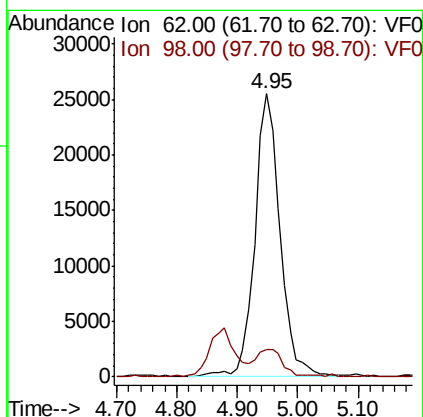
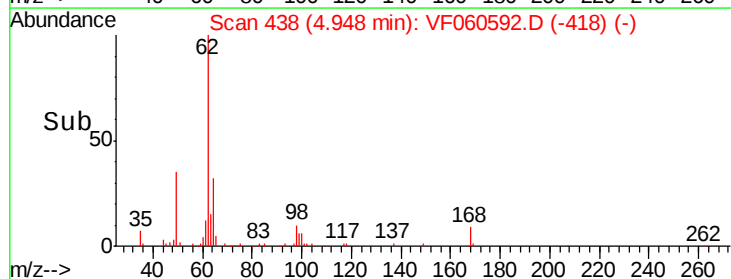
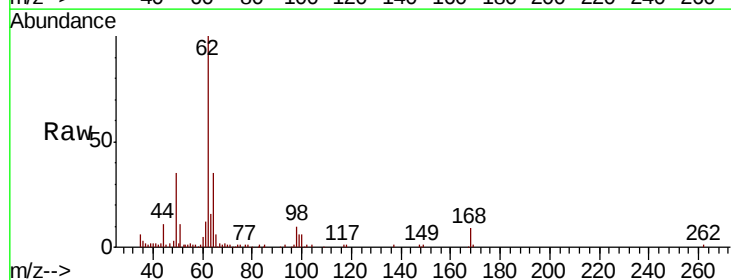
Manual Integrations
APPROVED

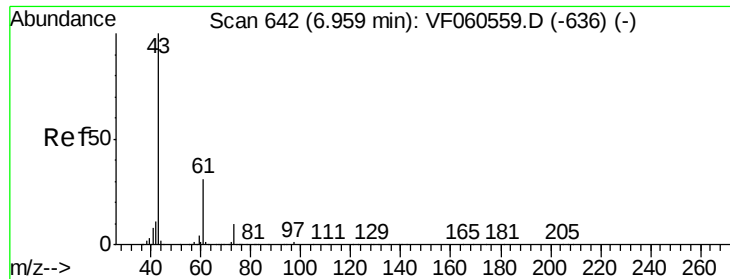
MMDadoda
11/6/2018 12:53:53 PM



#42
1,2-Dichloroethane
Concen: 22.331 ug/l
RT: 4.95 min Scan# 438
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.8	0.0	22.4	





#43

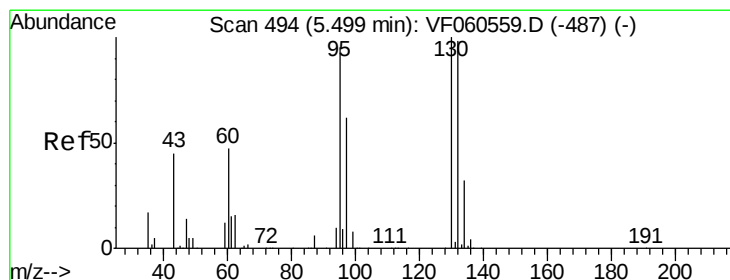
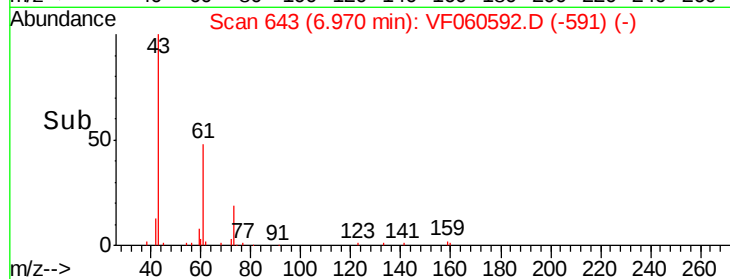
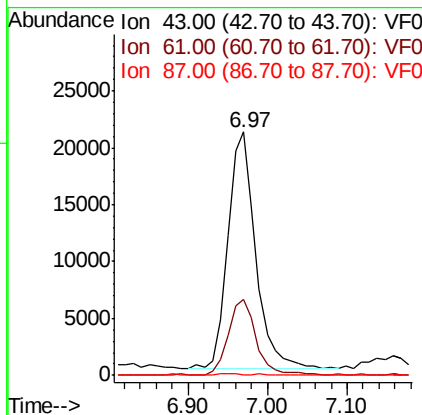
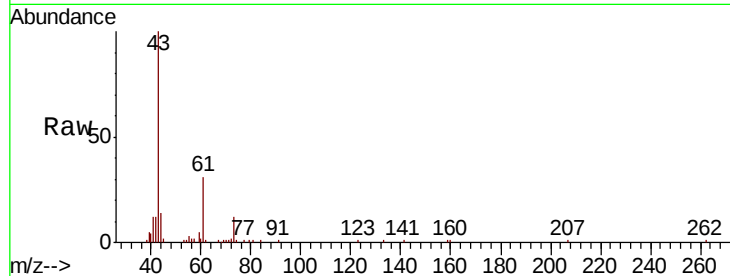
Isopropyl Acetate
 Concen: 17.663 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. 0.01 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.0	24.2	36.2
87	0.0	0.2	0.4

Manual Integrations
 APPROVED

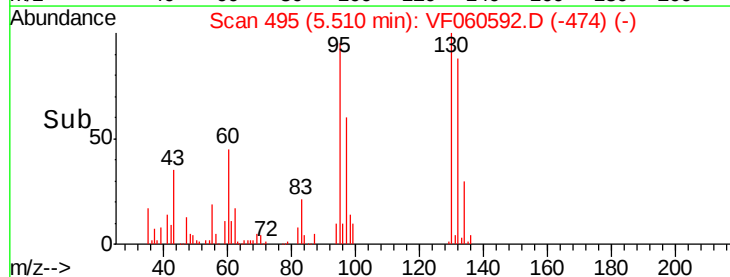
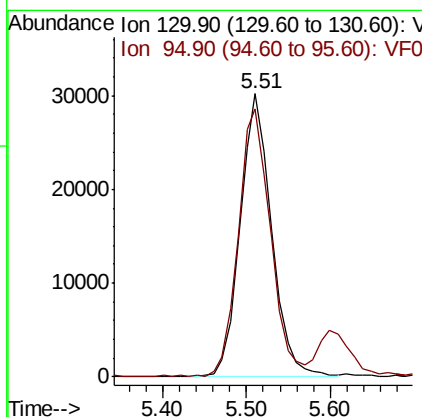
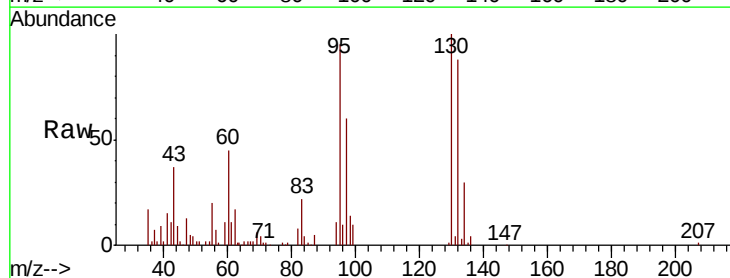
MMDadoda
 11/6/2018 12:53:53 PM

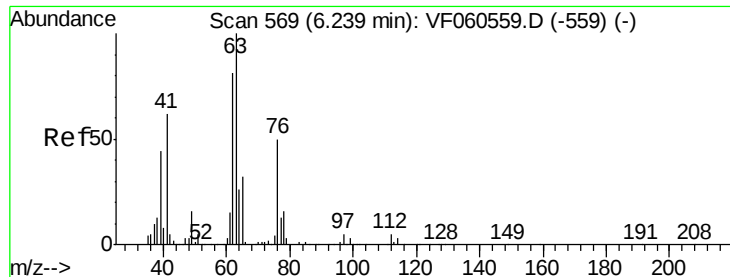


#44

Trichloroethene
 Concen: 22.651 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	191.0





#45

1,2-Dichloropropane

Concen: 22.294 ug/l

RT: 6.24 min Scan# 569

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 63 Resp: 65820

Ion Ratio Lower Upper

63 100

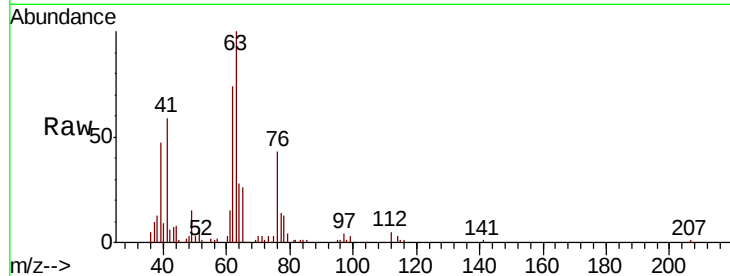
65 26.0 25.4 38.0

Manual Integrations

APPROVED

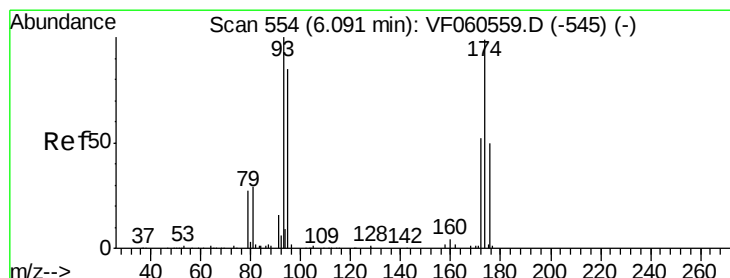
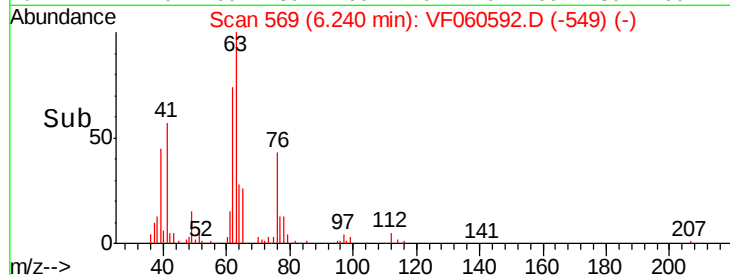
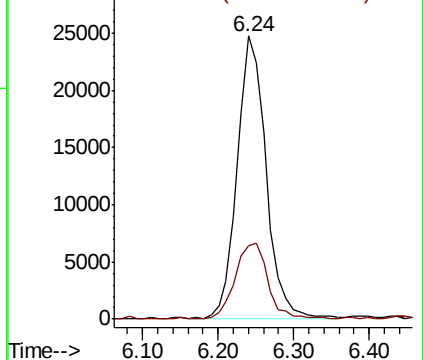
MMDadoda

11/6/2018 12:53:53 PM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 21.264 ug/l

RT: 6.09 min Scan# 554

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

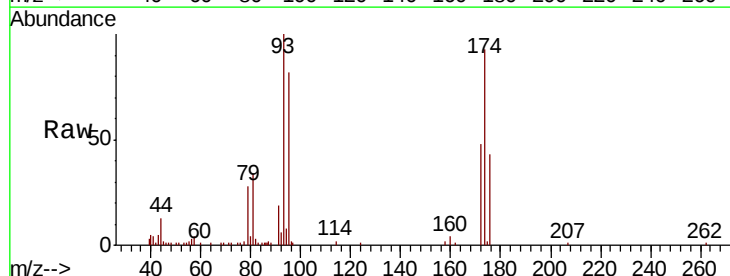
Tgt Ion: 93 Resp: 39829

Ion Ratio Lower Upper

93 100

95 82.2 68.6 102.8

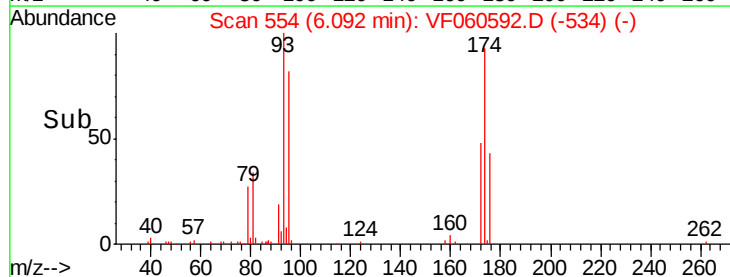
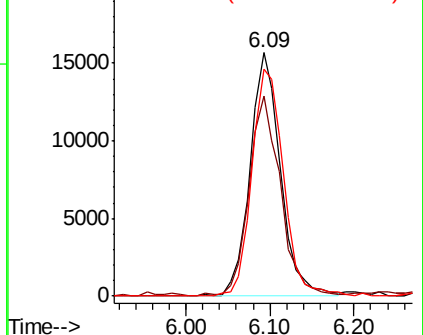
174 93.2 79.0 118.4

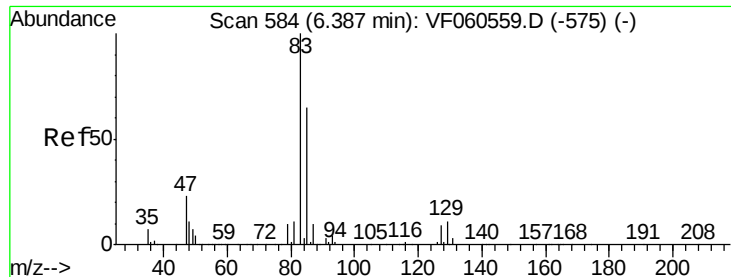


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 22.352 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

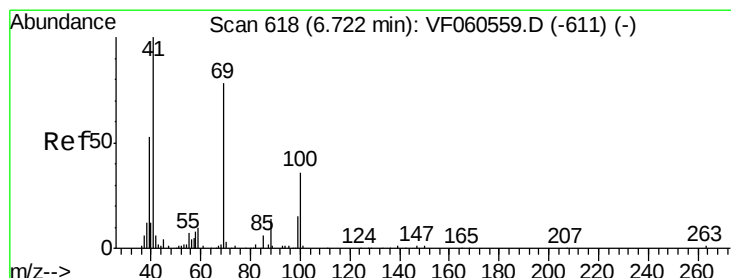
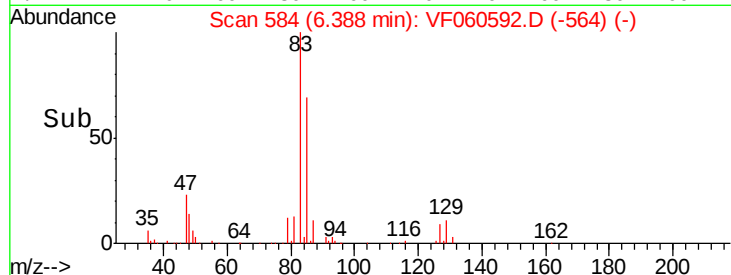
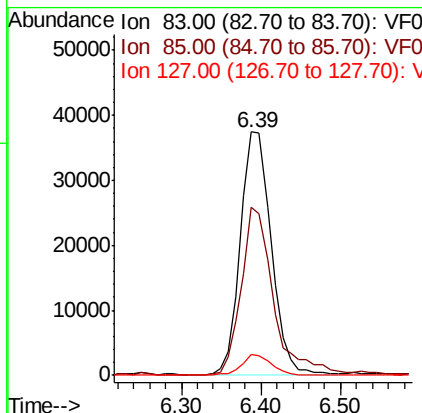
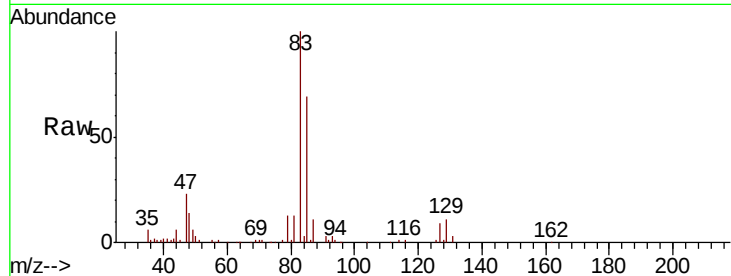
ClientSampleId :

VF1105SBS02

Tot Ion:	83	Resp:	100980
Ion	Ratio	Lower	Upper
83	100		
85	69.2	51.8	77.6
127	8.7	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:53 PM



#48

Methyl methacrylate

Concen: 18.700 ug/l

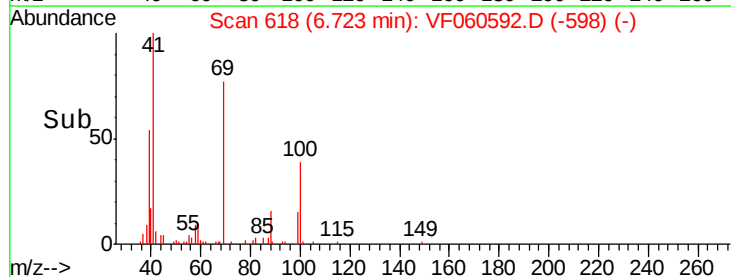
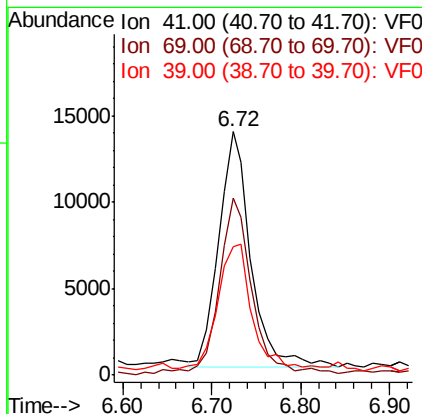
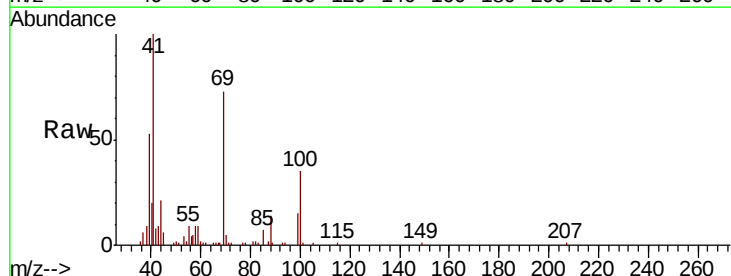
RT: 6.72 min Scan# 618

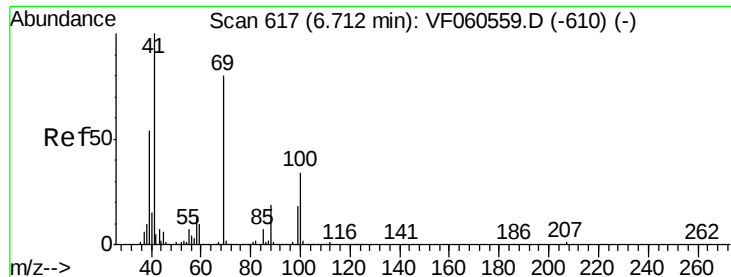
Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion:	41	Resp:	33939
Ion	Ratio	Lower	Upper
41	100		
69	72.9	61.1	91.7
39	52.8	43.0	64.6





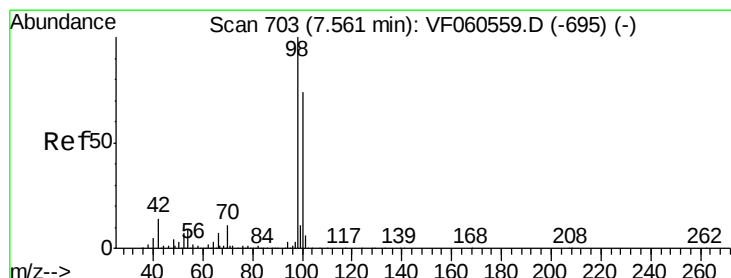
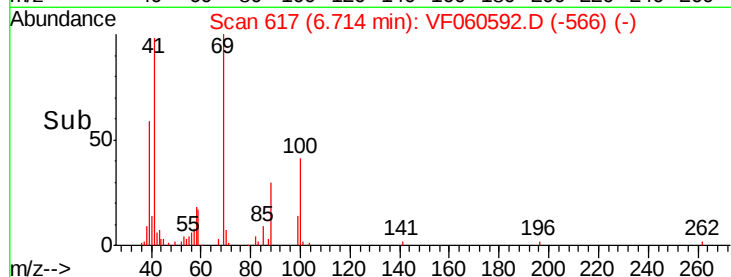
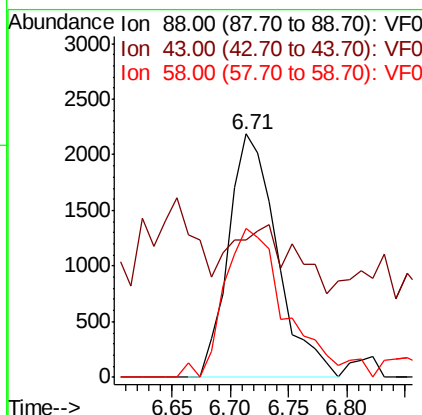
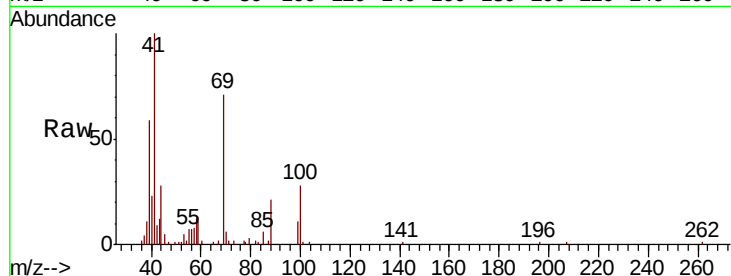
#49
1,4-Dioxane
Concen: 332.040 ug/l
RT: 6.71 min Scan# 617
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Resp	Lower	Upper
88	100	6304		
43	56.7		61.2	91.8#
58	61.1		56.9	85.3

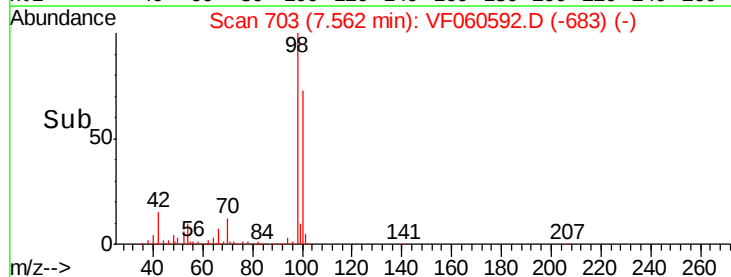
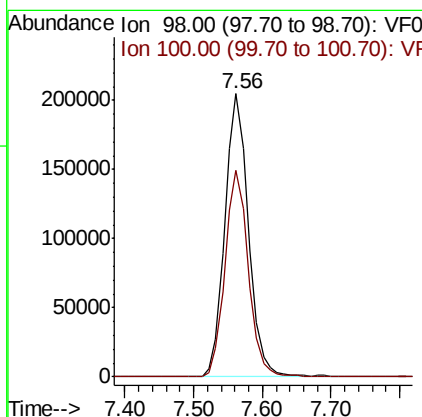
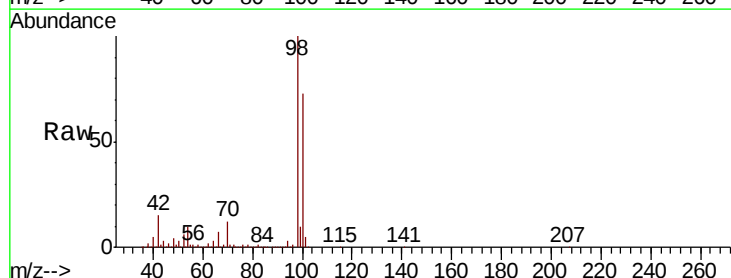
Manual Integrations
APPROVED

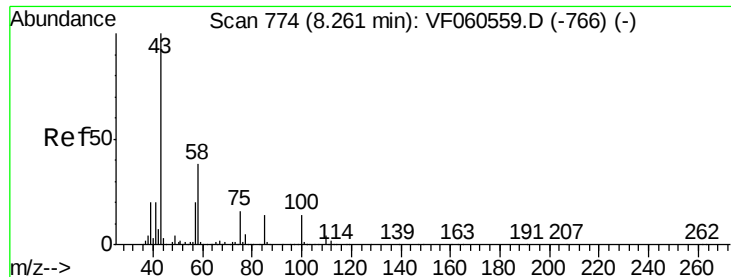
MMDadoda
11/6/2018 12:53:53 PM



#50
Toluene-d8
Concen: 49.259 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	486942		
100	73.0		59.4	89.2





#51

4-Methyl-2-Pentanone

Concen: 97.421 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 43 Resp: 189182

Ion Ratio Lower Upper

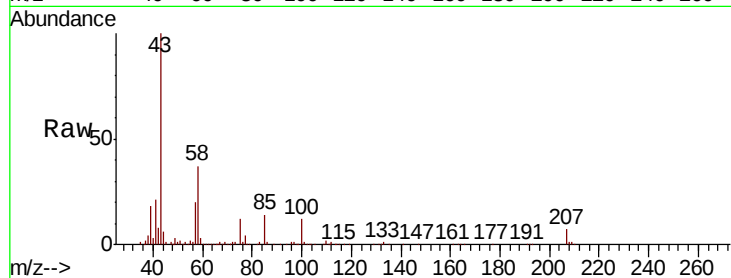
43 100

58 36.7 30.1 45.1

Manual Integrations
APPROVED

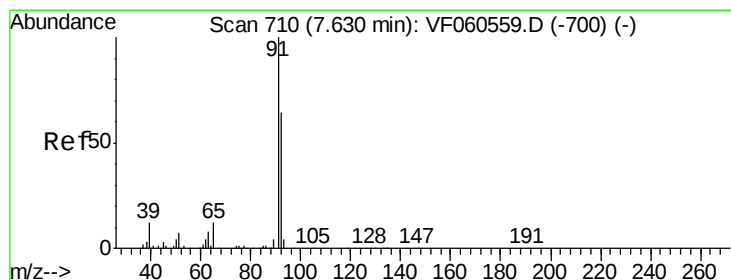
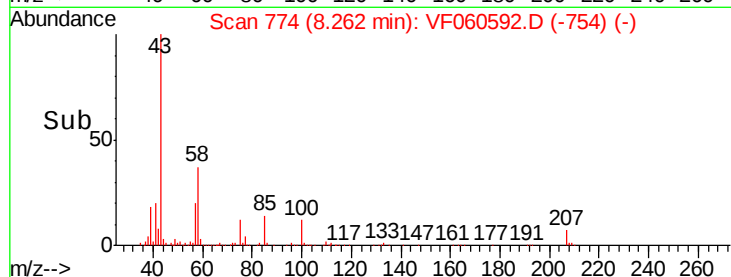
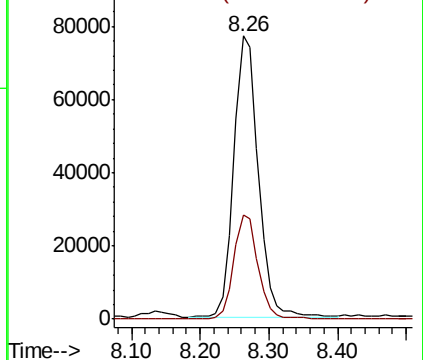
MMDadoda

11/6/2018 12:53:53 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.576 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060592.D

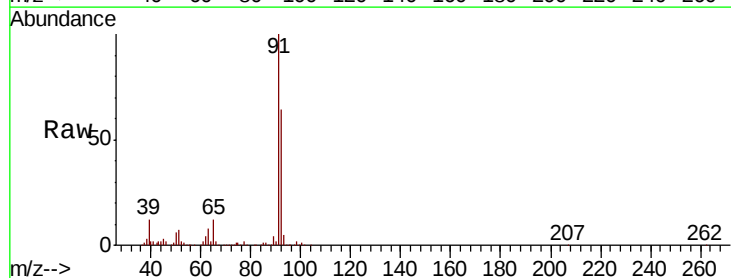
Acq: 6 Nov 2018 3:22

Tgt Ion: 92 Resp: 154727

Ion Ratio Lower Upper

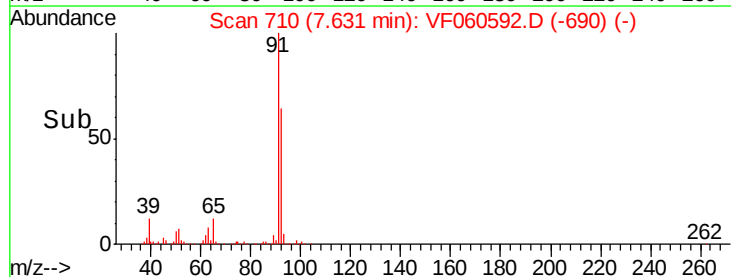
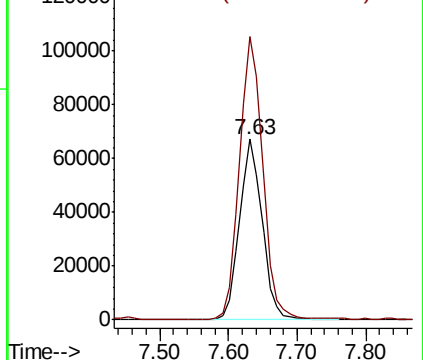
92 100

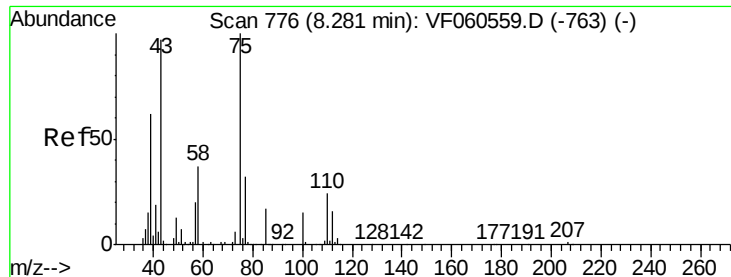
91 156.6 124.5 186.7



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: 20.419 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 75 Resp: 80175

Ion Ratio Lower Upper

75 100

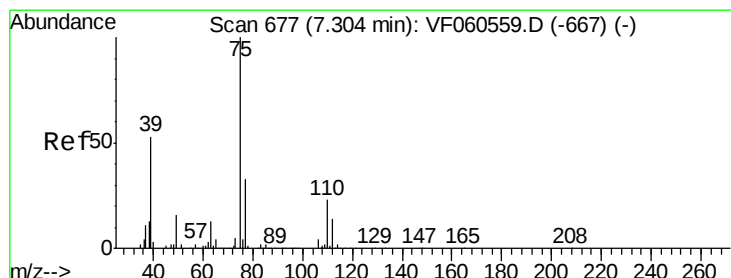
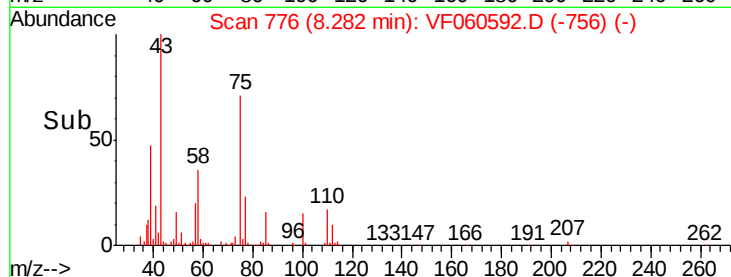
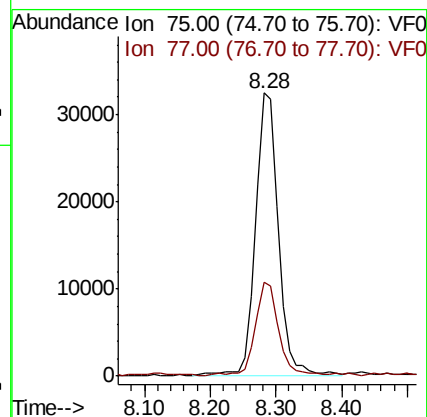
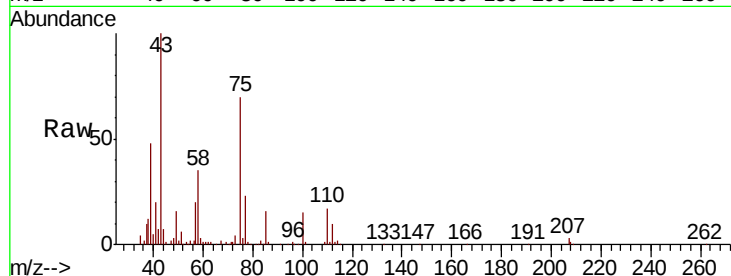
77 33.2 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

11/6/2018 12:53:53 PM



#54

cis-1,3-Dichloropropene

Concen: 21.688 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

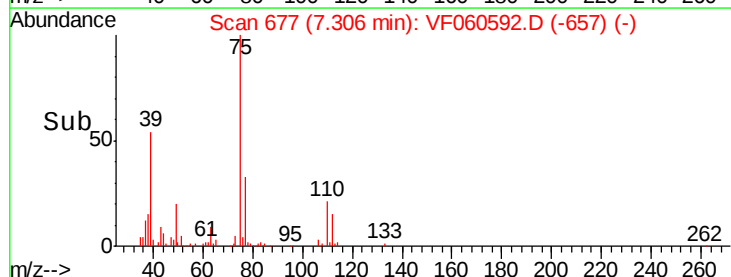
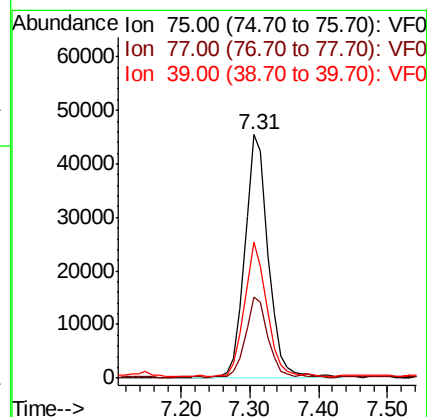
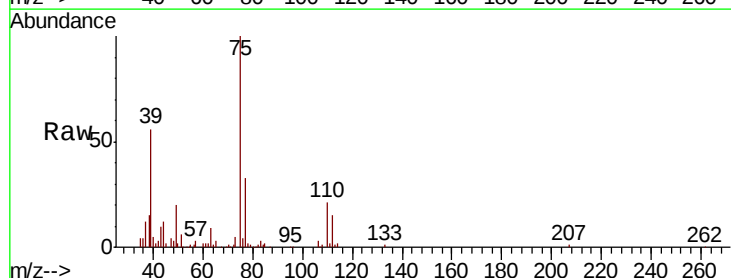
Tgt Ion: 75 Resp: 107597

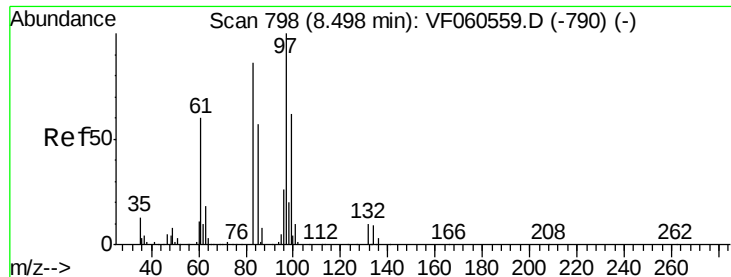
Ion Ratio Lower Upper

75 100

77 33.1 26.7 40.1

39 55.7 43.0 64.4





#55

1,1,2-Trichloroethane

Concen: 19.652 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

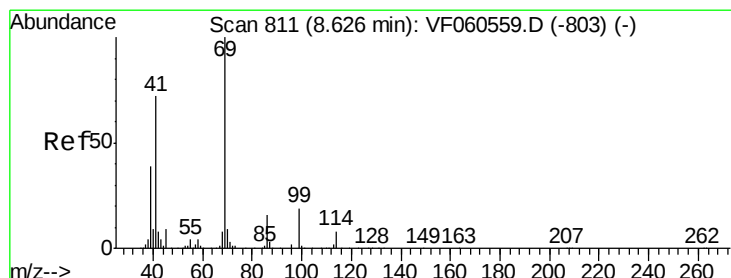
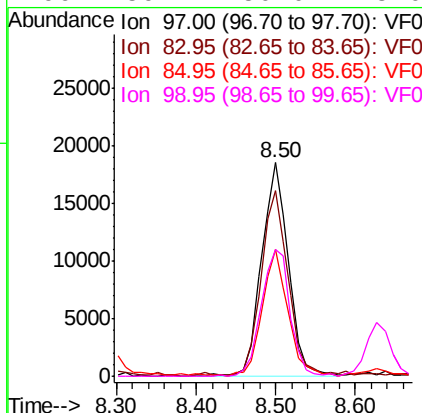
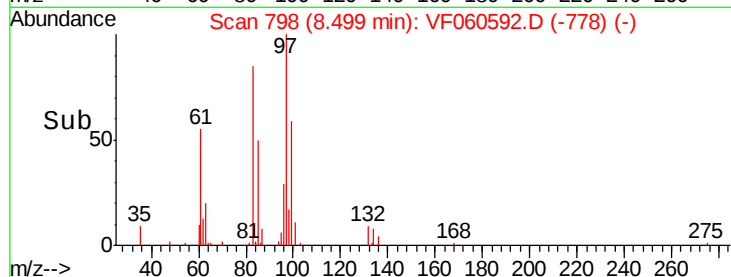
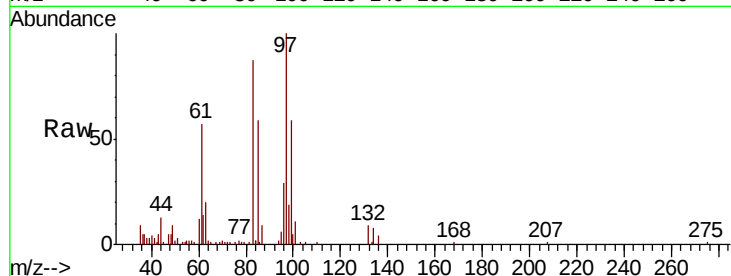
ClientSampleId :

VF1105SBS02

Tot Ion:	97	Resp:	43004
Ion	Ratio	Lower	Upper
97	100		
83	86.7	69.4	104.0
85	59.3	46.6	69.8
99	59.1	50.0	75.0

Manual Integrations
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MMDadoda
11/6/2018 12:53:53 PM



#56

Ethyl methacrylate

Concen: 17.908 ug/l

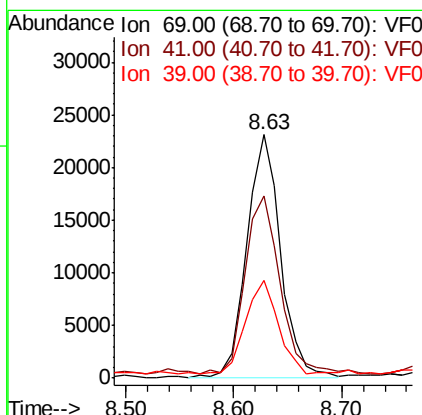
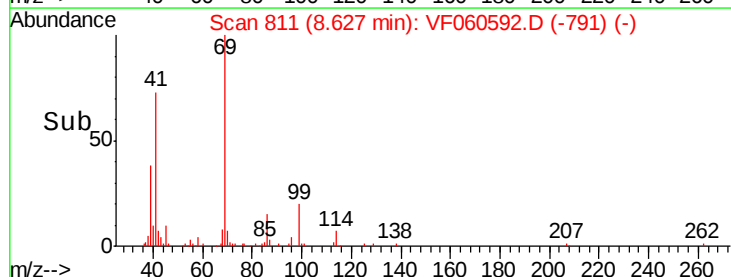
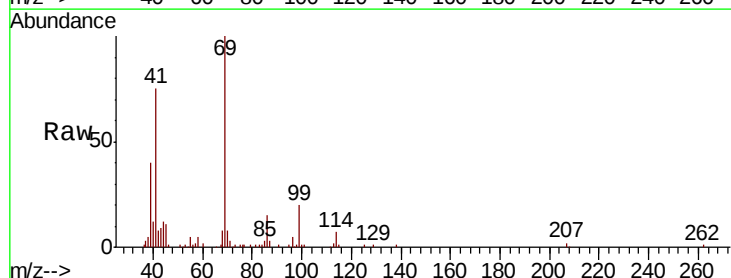
RT: 8.63 min Scan# 811

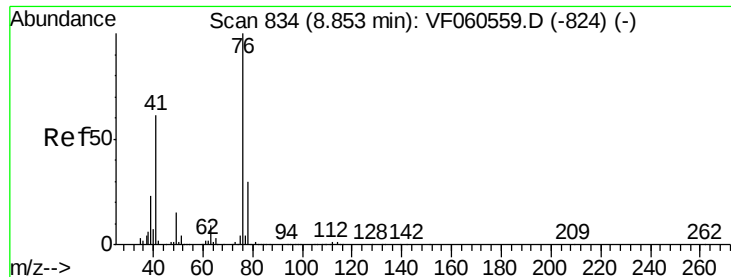
Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion:	69	Resp:	50417
Ion	Ratio	Lower	Upper
69	100		
41	75.1	59.2	88.8
39	40.0	32.3	48.5





#57

1,3-Dichloropropane

Concen: 20.001 ug/l

RT: 8.86 min Scan# 835

Delta R.T. 0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 76 Resp: 76795

Ion Ratio Lower Upper

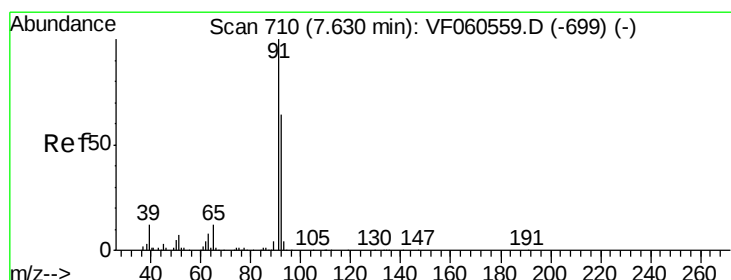
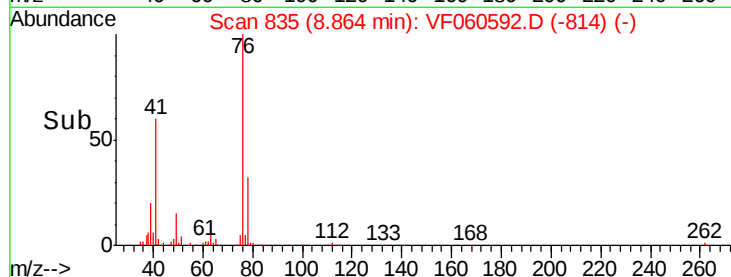
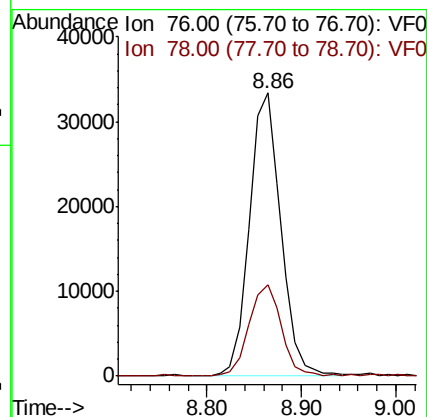
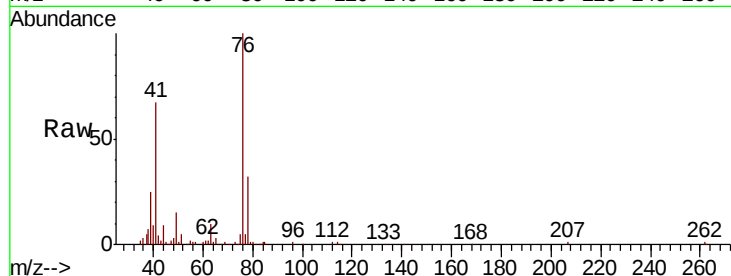
76 100

78 32.2 24.2 36.4

Manual Integrations
APPROVED

MMDadoda

11/6/2018 12:53:53 PM



#58

2-Chloroethyl Vinyl ether

Concen: 101.798 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060592.D

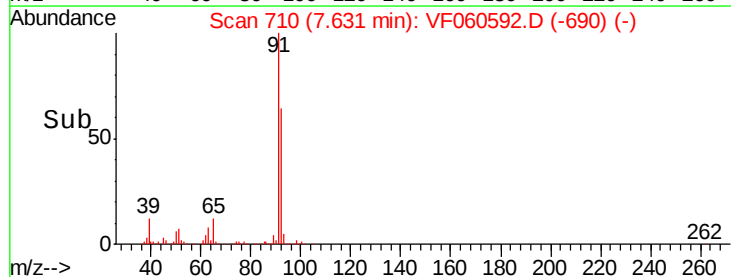
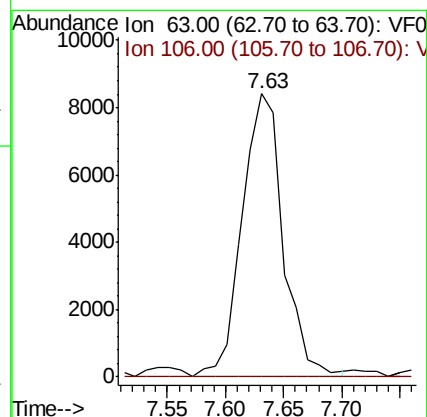
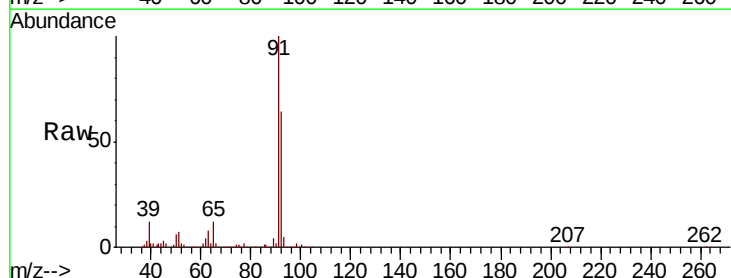
Acq: 6 Nov 2018 3:22

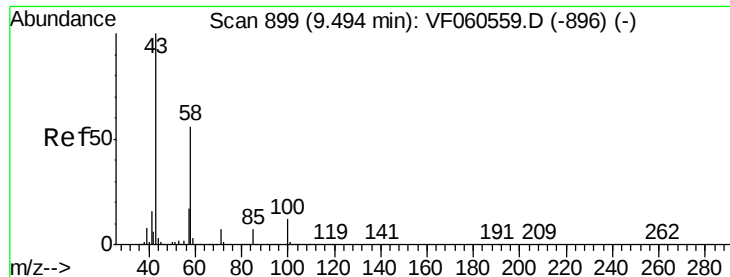
Tgt Ion: 63 Resp: 20560

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





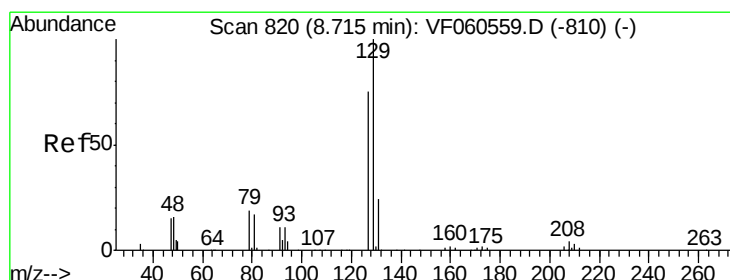
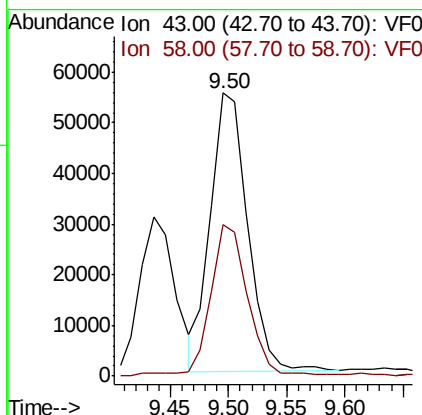
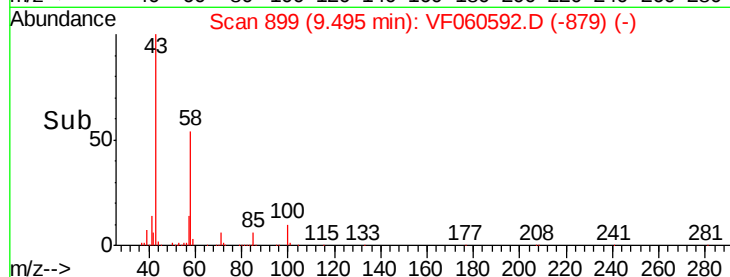
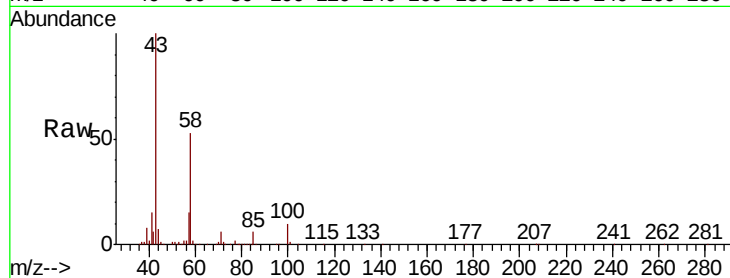
#59
2-Hexanone
Concen: 77.259 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.5	26.1	78.3

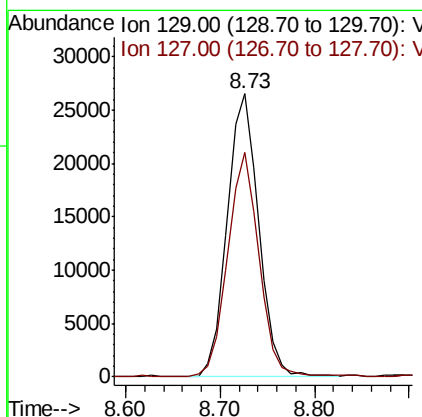
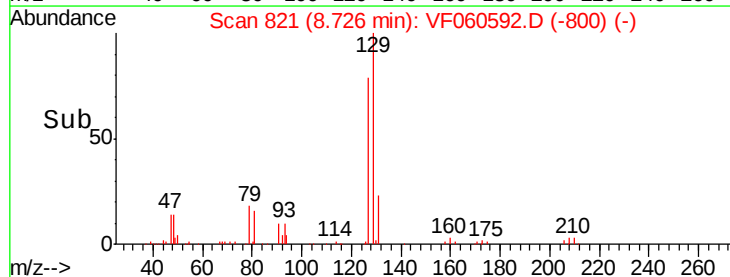
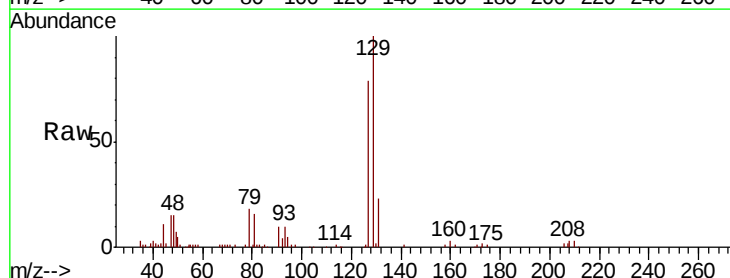
Manual Integrations
APPROVED

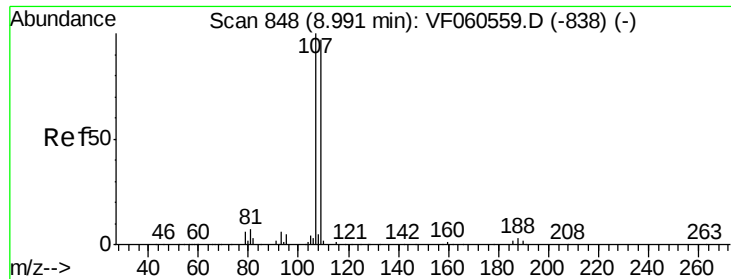
MMDadoda
11/6/2018 12:53:53 PM



#60
Dibromochloromethane
Concen: 20.030 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.2	37.8	113.3





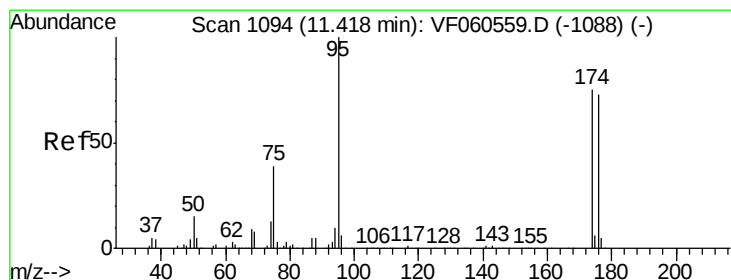
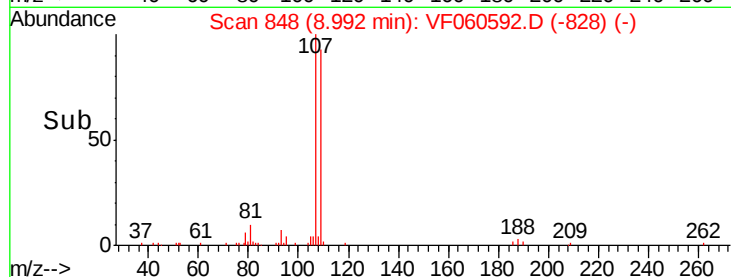
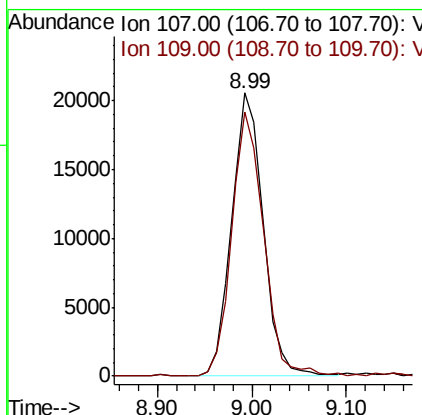
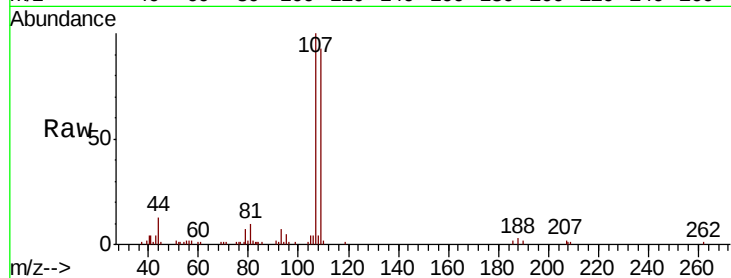
#61
1,2-Dibromoethane
Concen: 20.656 ug/l
RT: 8.99 min Scan# 848
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	77.5	116.3

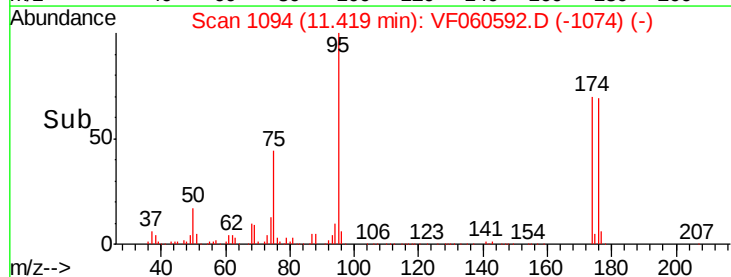
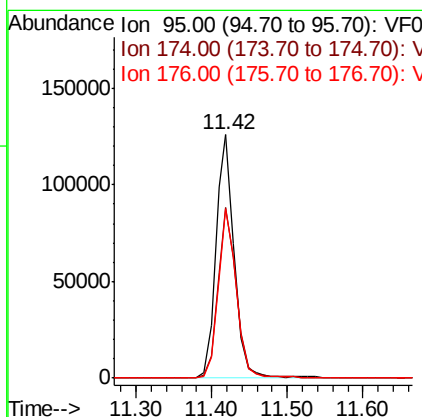
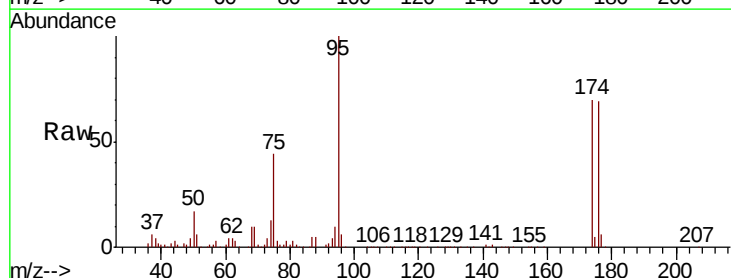
Manual Integrations
APPROVED

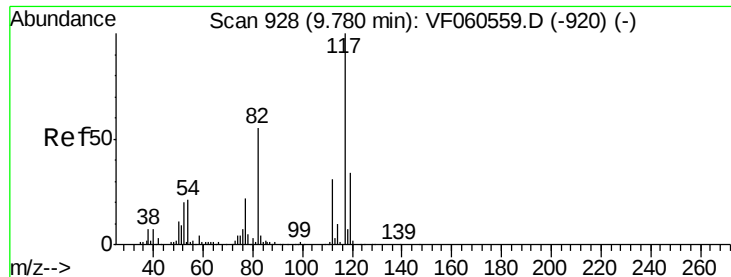
MMDadoda
11/6/2018 12:53:53 PM



#62
4-Bromofluorobenzene
Concen: 49.584 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	149.0
176	69.4	0.0	145.6





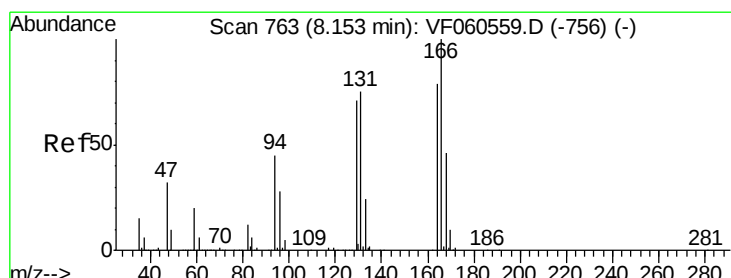
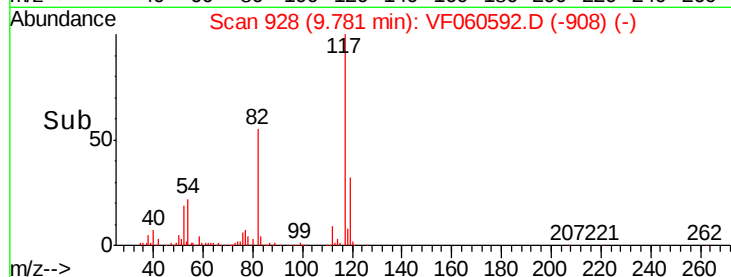
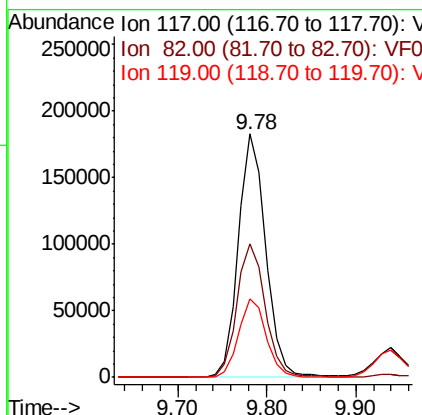
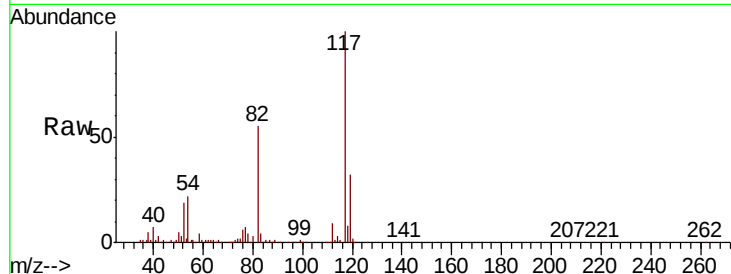
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	392716		
82	54.9		43.9	65.9
119	32.0		27.4	41.0

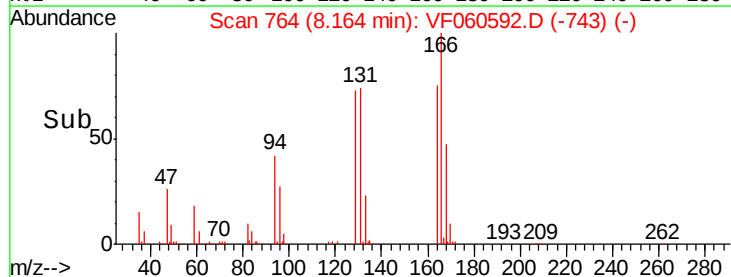
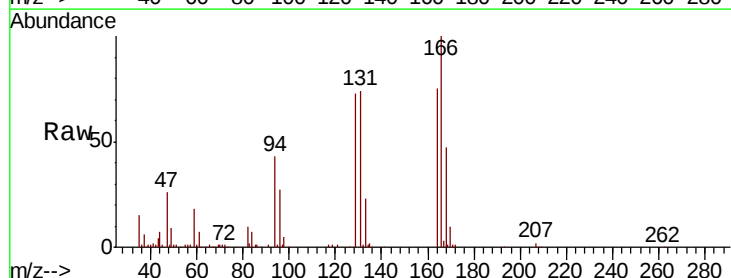
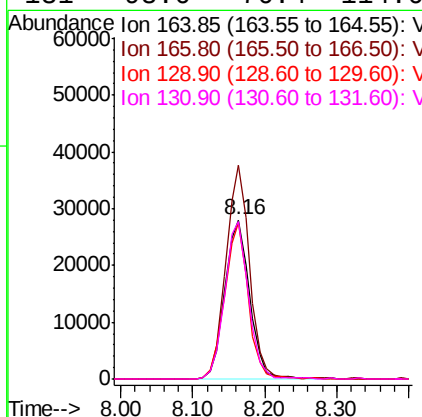
Manual Integrations
APPROVED

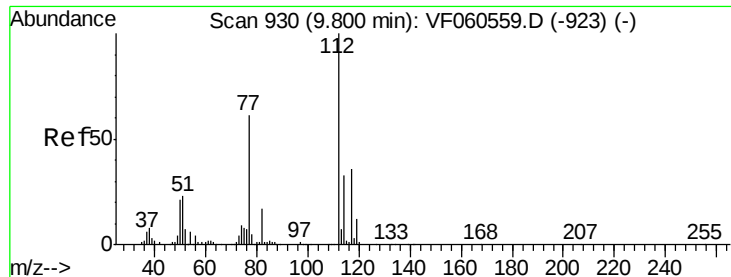
MMDadoda
11/6/2018 12:53:53 PM



#64
Tetrachloroethene
Concen: 21.715 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	66834		
166	134.1		101.5	152.3
129	98.0		72.5	108.7
131	98.6		76.4	114.6





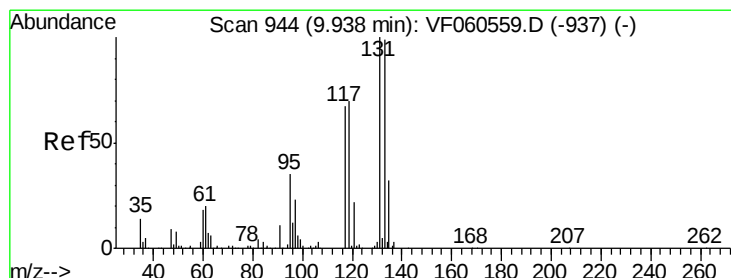
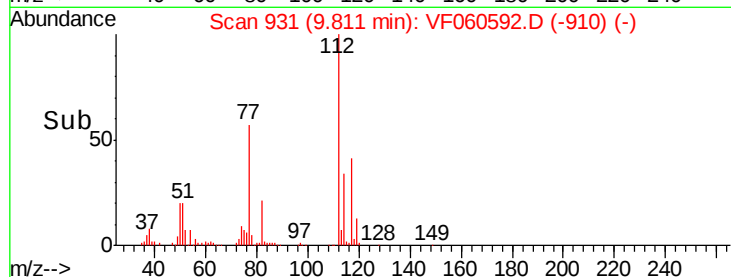
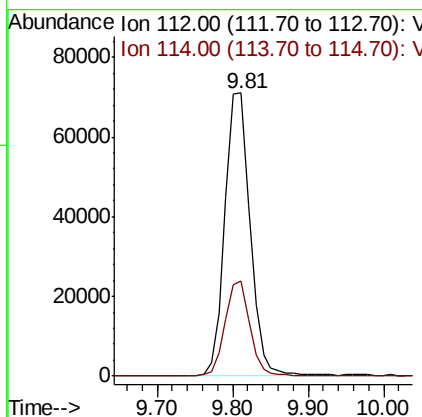
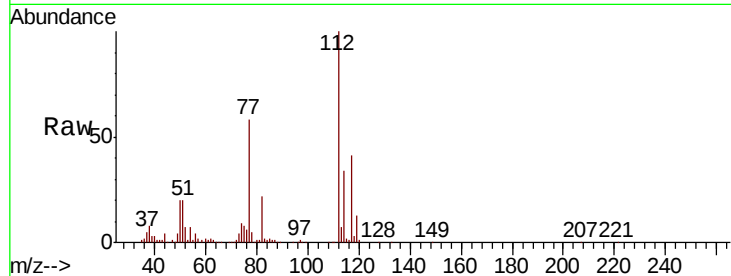
#65
Chlorobenzene
Concen: 20.624 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion:112 Resp: 165629
Ion Ratio Lower Upper
112 100
114 33.6 26.6 40.0

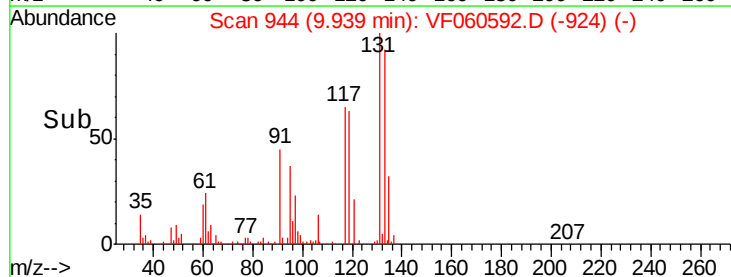
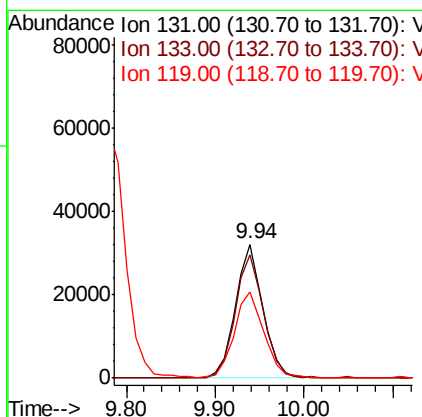
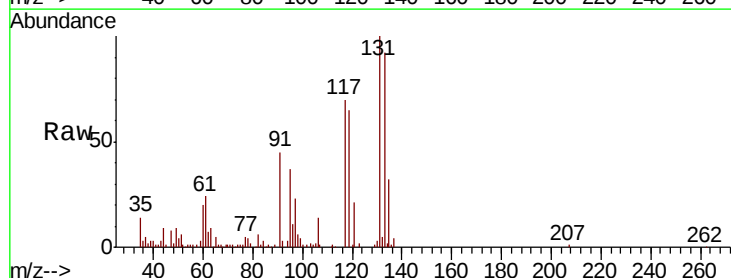
Manual Integrations
APPROVED

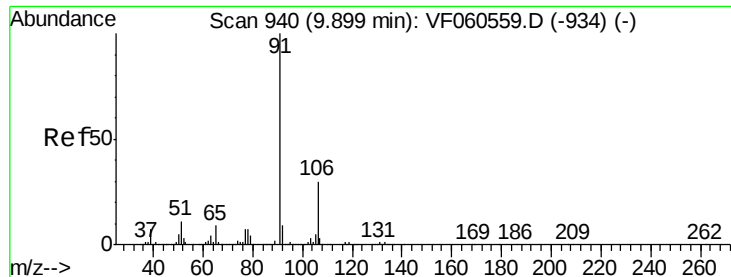
MMDadoda
11/6/2018 12:53:53 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.431 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion:131 Resp: 69331
Ion Ratio Lower Upper
131 100
133 92.0 49.5 148.7
119 64.5 35.2 105.6





#67

Ethyl Benzene

Concen: 21.578 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 91 Resp: 314479

Ion Ratio Lower Upper

91 100

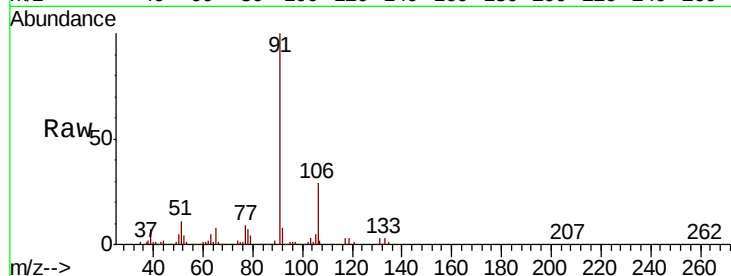
106 29.2 24.2 36.4

Manual Integrations

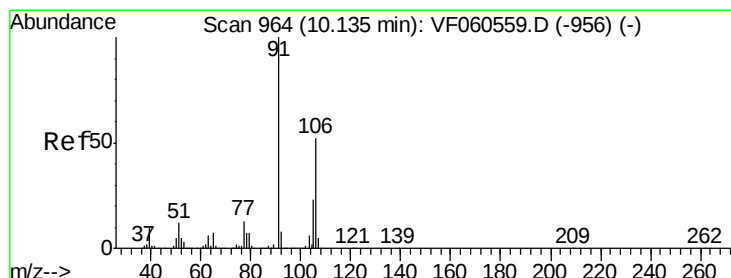
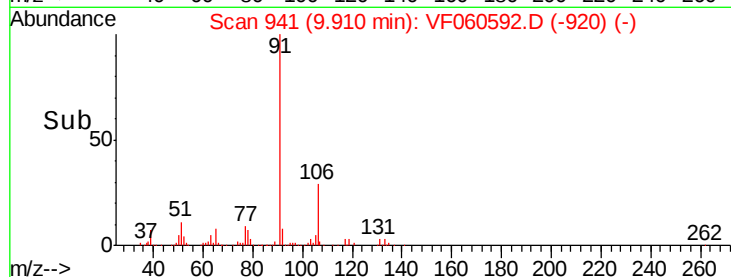
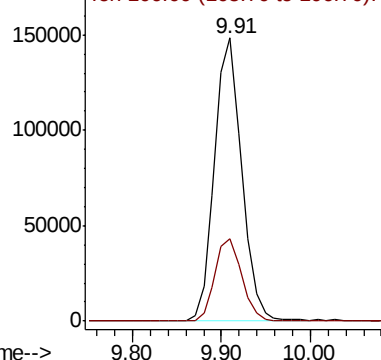
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11/6/2018 12:53:53 PM



Abundance Ion 91.00 (90.70 to 91.70): VF060559.D (-934) (-)



#68

m/p-Xylenes

Concen: 41.836 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF060592.D

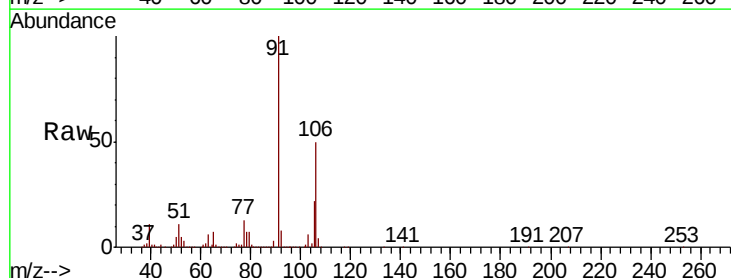
Acq: 6 Nov 2018 3:22

Tgt Ion: 106 Resp: 229668

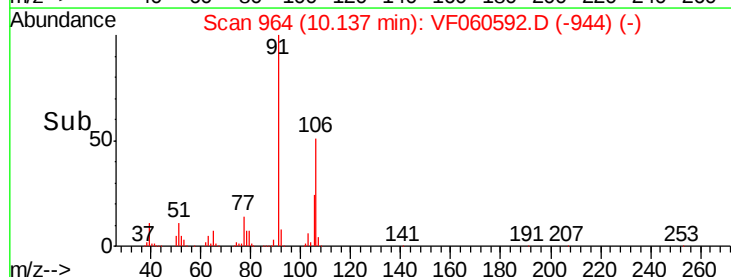
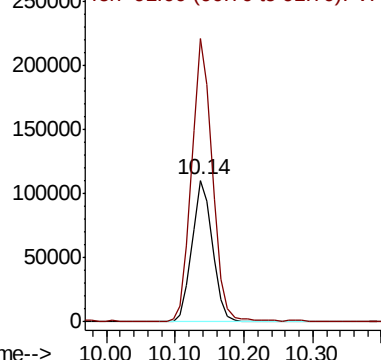
Ion Ratio Lower Upper

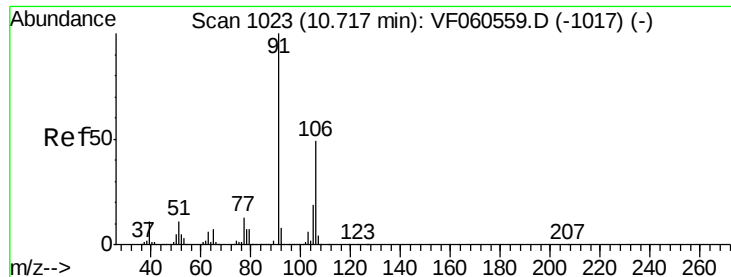
106 100

91 199.8 153.9 230.9



Abundance Ion 106.00 (105.70 to 106.70): VF060559.D (-956) (-)





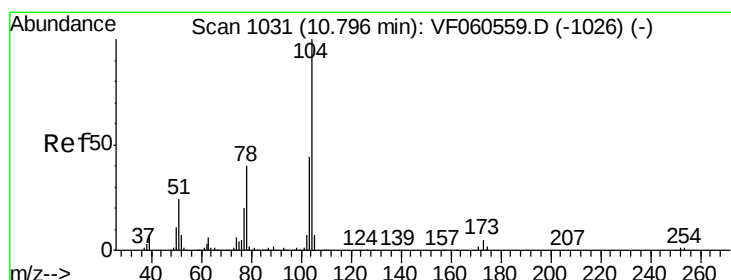
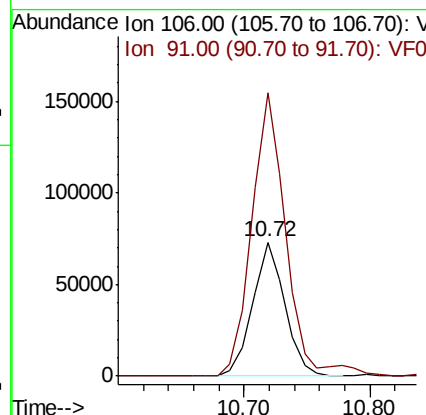
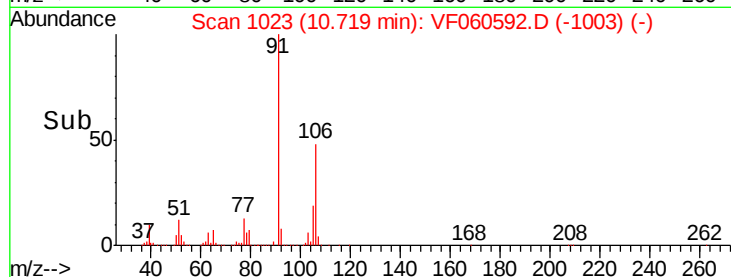
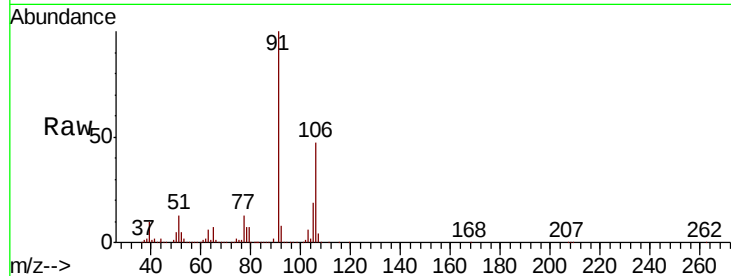
#69
o-Xylene
Concen: 21.761 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	130446		
91	91	210.8	101.8	305.3	

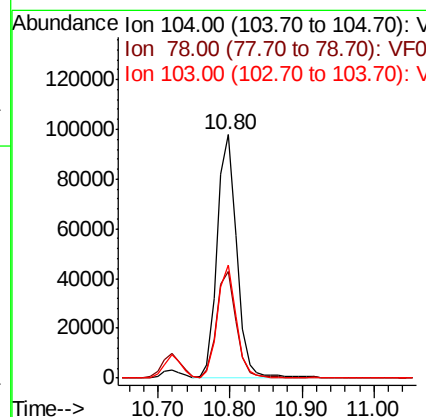
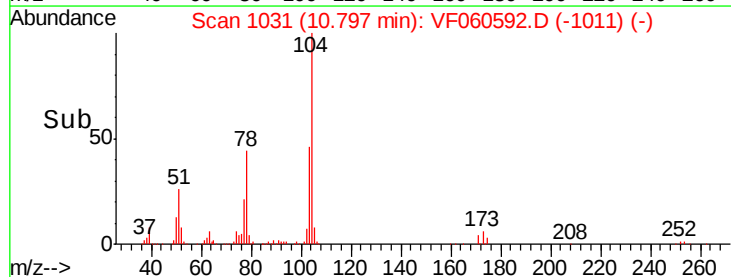
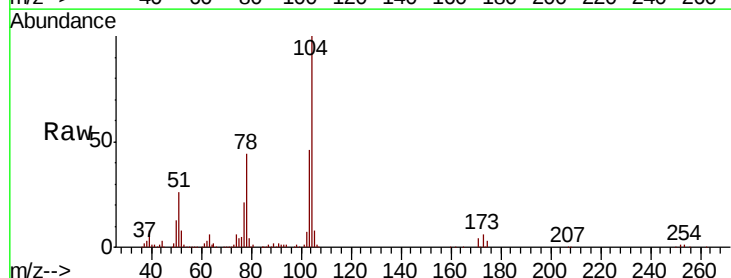
Manual Integrations
APPROVED

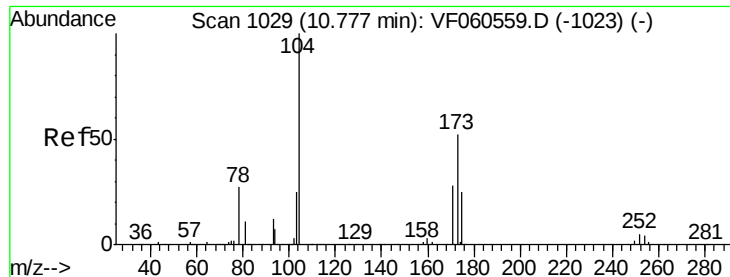
MMDadoda
11/6/2018 12:53:53 PM



#70
Styrene
Concen: 20.845 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	181030		
78	78	43.9	32.6	49.0	
103	103	46.3	35.2	52.8	





#71

Bromoform

Concen: 19.094 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

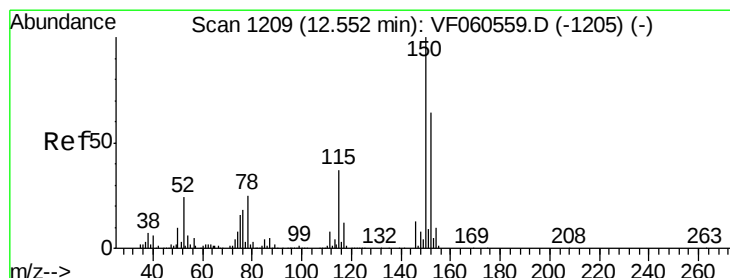
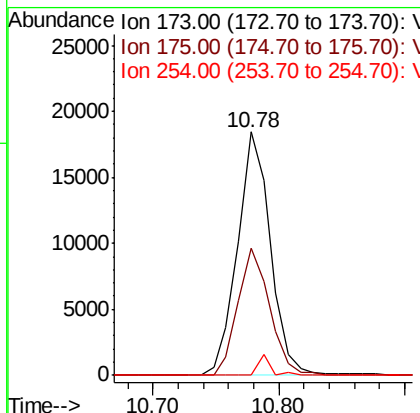
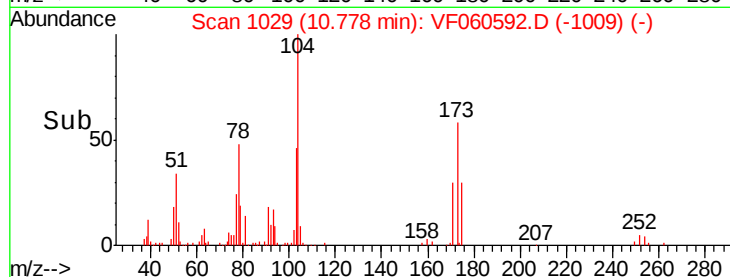
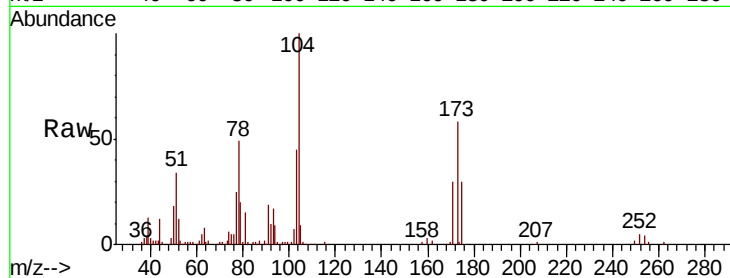
ClientSampleId :

VF1105SBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	52.0	24.3	72.9
254	0.0	6.7	10.1

Manual Integrations
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11/6/2018 12:53:53 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

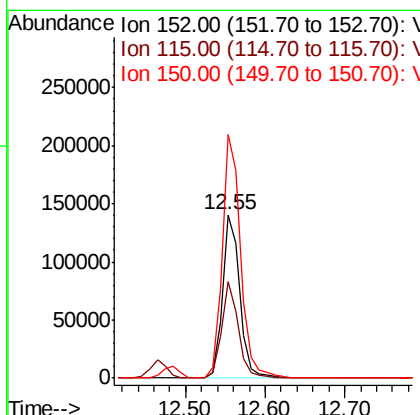
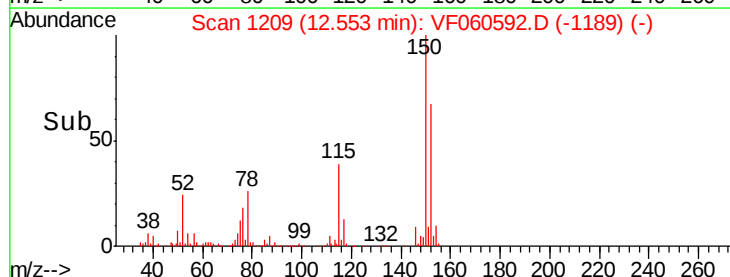
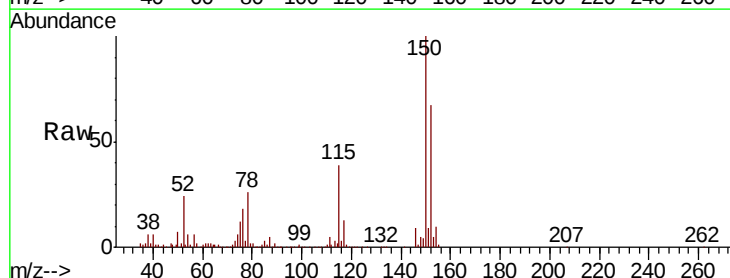
RT: 12.55 min Scan# 1209

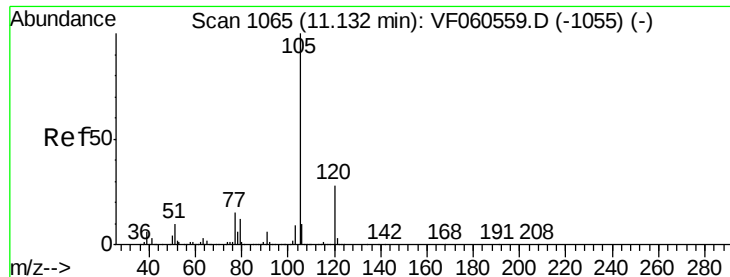
Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.7	29.6	88.8
150	148.8	0.0	315.6





#73

Isopropylbenzene

Concen: 22.331 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion:105 Resp: 375490

Ion Ratio Lower Upper

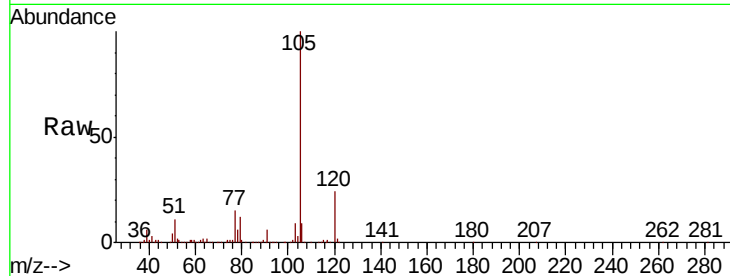
105 100

120 24.4 13.9 41.6

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.13

200000

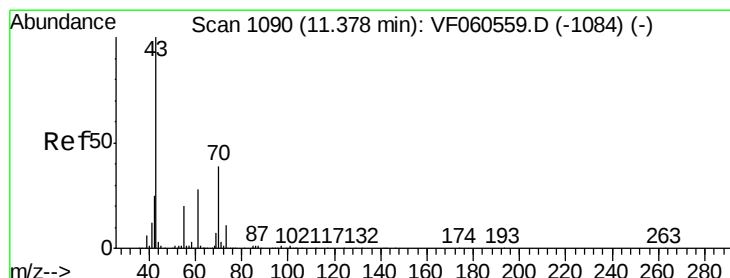
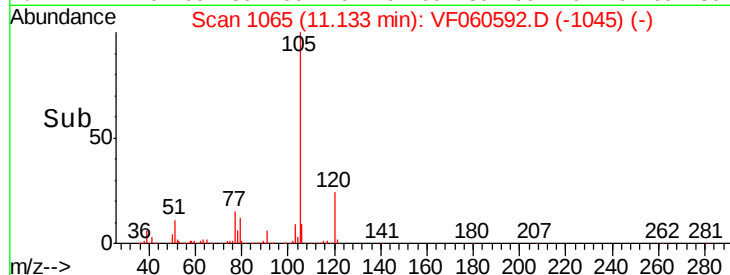
150000

100000

50000

0

Time--> 11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 16.772 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion: 43 Resp: 81540

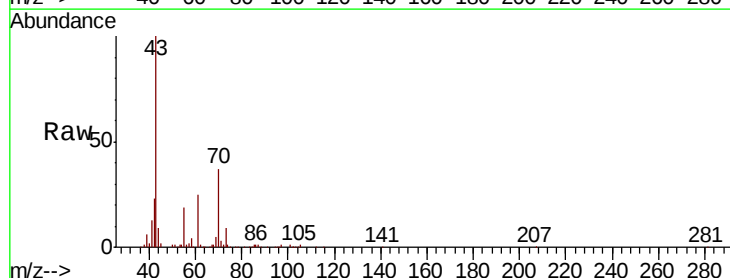
Ion Ratio Lower Upper

43 100

70 37.2 30.9 46.3

55 19.3 16.6 24.8

61 25.3 22.0 33.0



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

80000

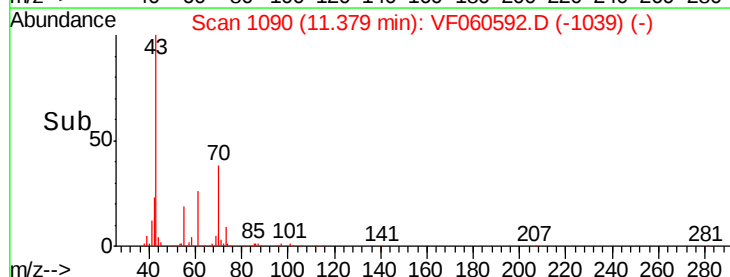
60000

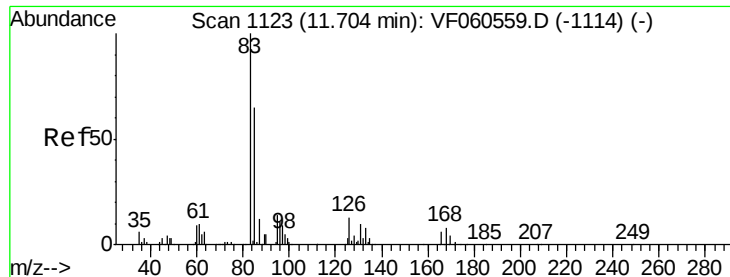
40000

20000

0

Time--> 11.30 11.40





#75

1,1,2,2-Tetrachloroethane

Concen: 20.411 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

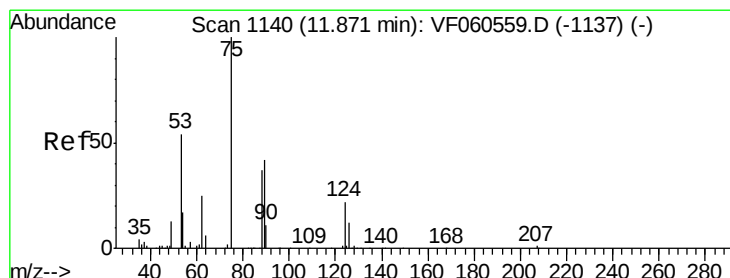
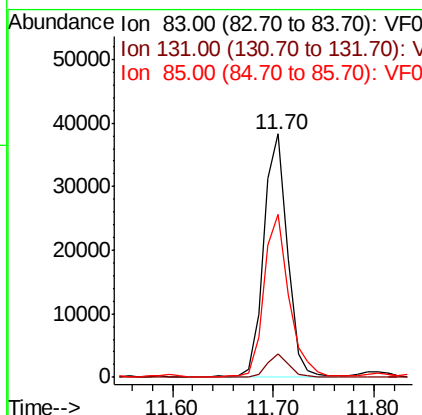
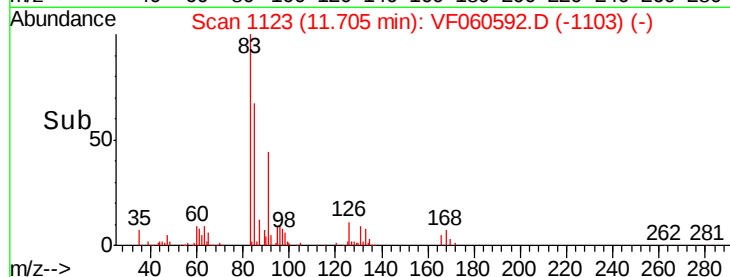
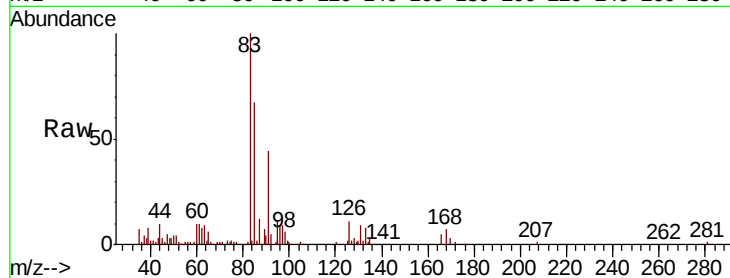
ClientSampleId :

VF1105SBS02

Tot Ion:	83	Resp:	62644
Ion Ratio	Lower	Upper	
83	100		
131	9.4	5.0	14.9
85	66.7	32.9	98.7

Manual Integrations
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11/6/2018 12:53:53 PM



#76

1,2,3-Trichloropropane

Concen: 19.468 ug/l

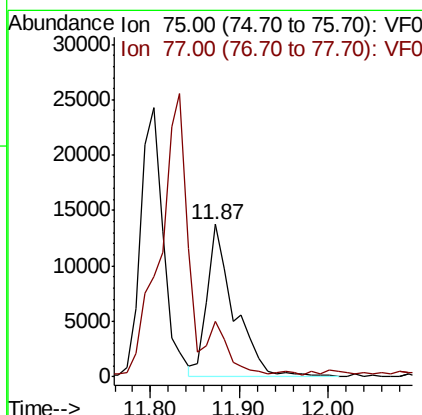
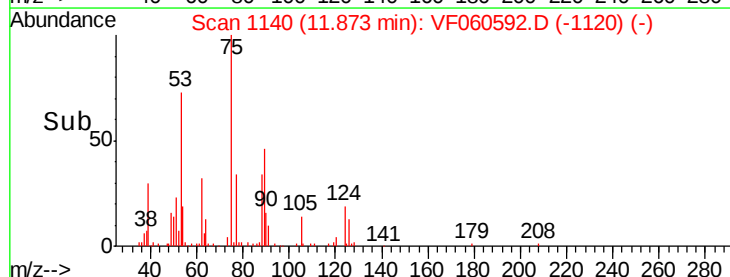
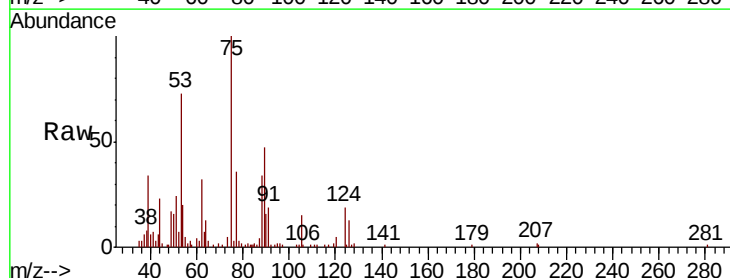
RT: 11.87 min Scan# 1140

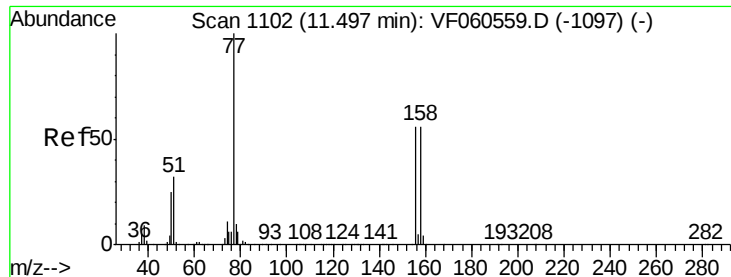
Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion:	75	Resp:	29365
Ion Ratio	Lower	Upper	
75	100		
77	36.3	17.4	52.3





#77

Bromobenzene

Concen: 20.538 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

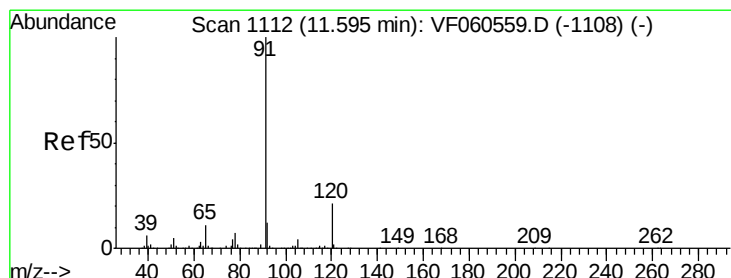
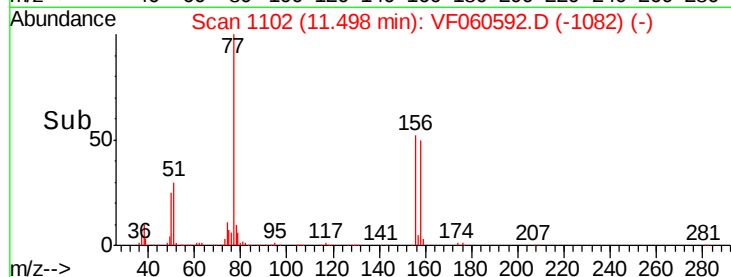
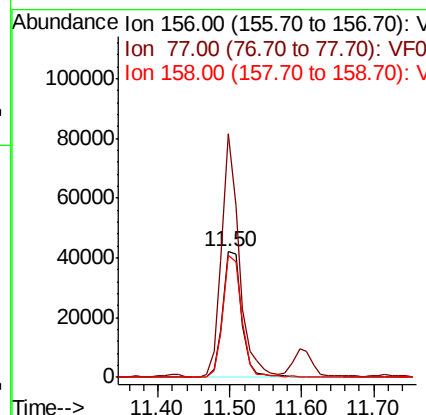
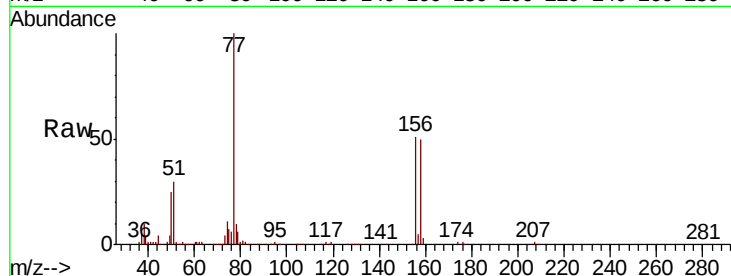
ClientSampleId :

VF1105SBS02

Tot Ion	Ratio	Lower	Upper
156	100		
77	194.4	89.3	268.1
158	97.7	50.0	150.1

Manual Integrations
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#78

n-propylbenzene

Concen: 21.232 ug/l

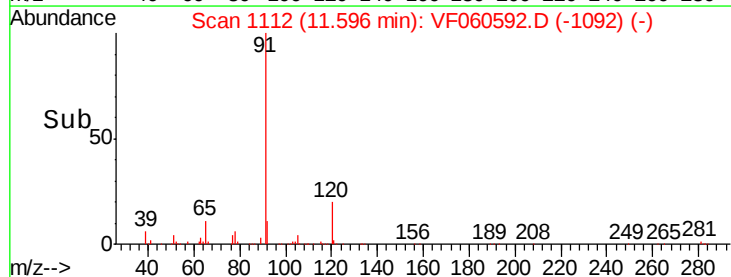
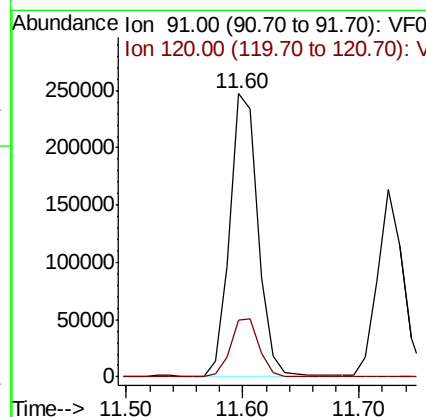
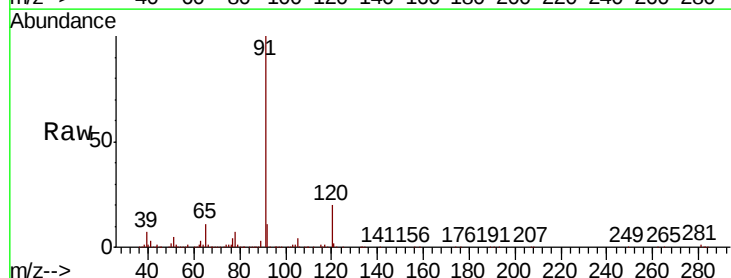
RT: 11.60 min Scan# 1112

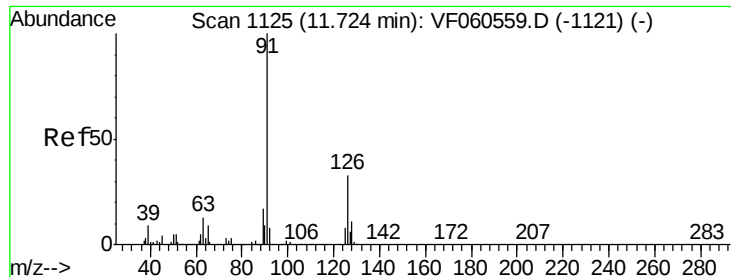
Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.2	10.5	31.6





#79

2-Chlorotoluene

Concen: 21.992 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 91 Resp: 247091

Ion Ratio Lower Upper

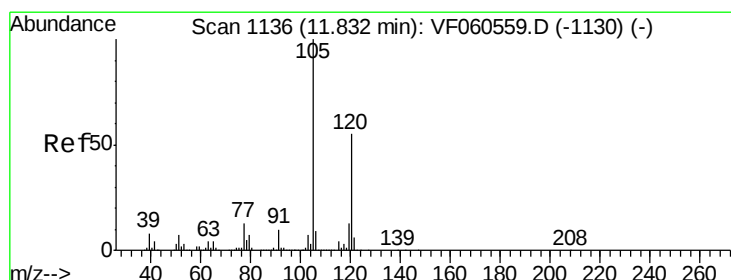
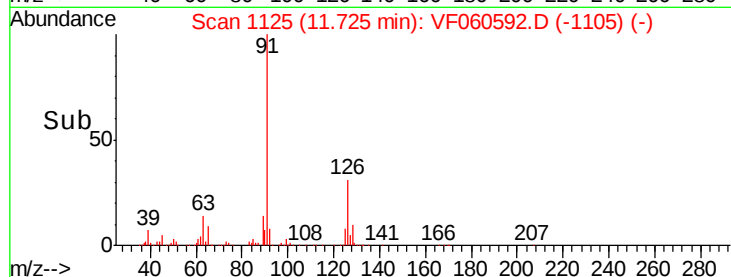
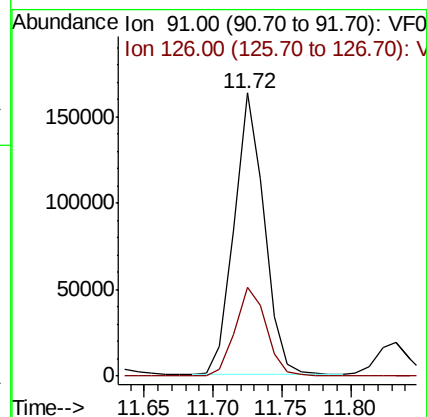
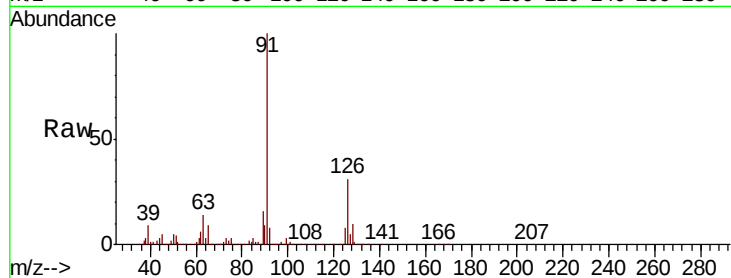
91 100

126 31.2 16.5 49.5

Manual Integrations
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11/6/2018 12:53:53 PM



#80

1,3,5-Trimethylbenzene

Concen: 21.401 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF060592.D

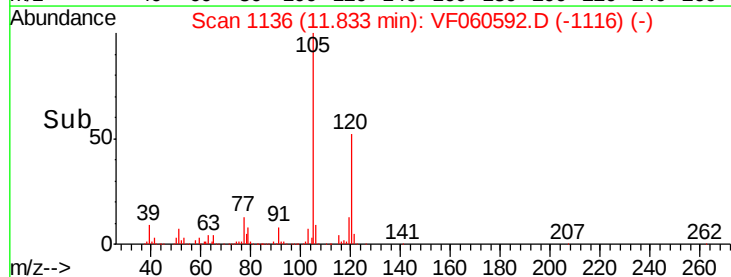
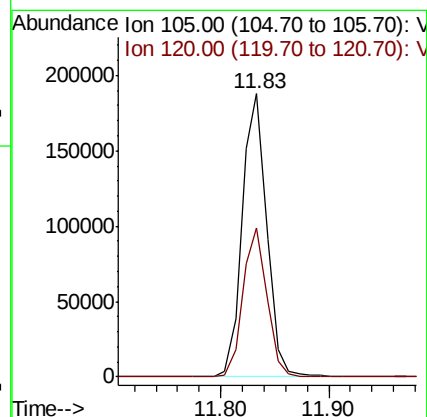
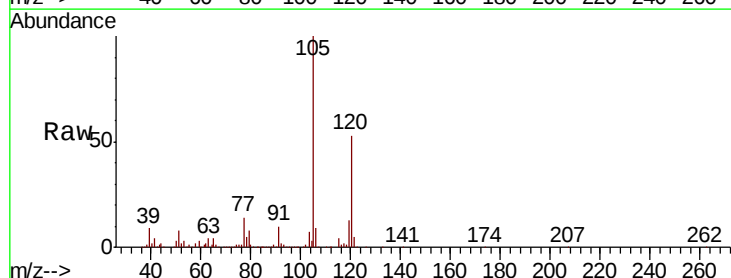
Acq: 6 Nov 2018 3:22

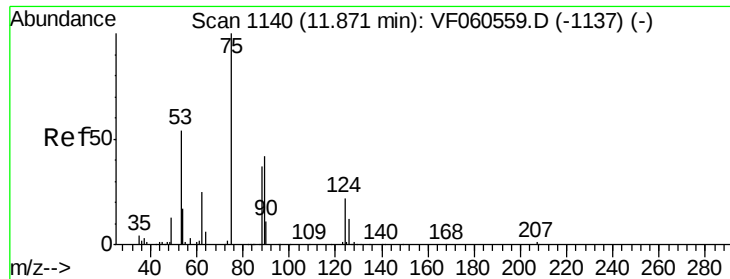
Tgt Ion: 105 Resp: 296620

Ion Ratio Lower Upper

105 100

120 52.6 27.6 82.8





#81

trans-1,4-Dichloro-2-butene

Concen: 18.210 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS02

Tot Ion: 75 Resp: 21586

Ion Ratio Lower Upper

75 100

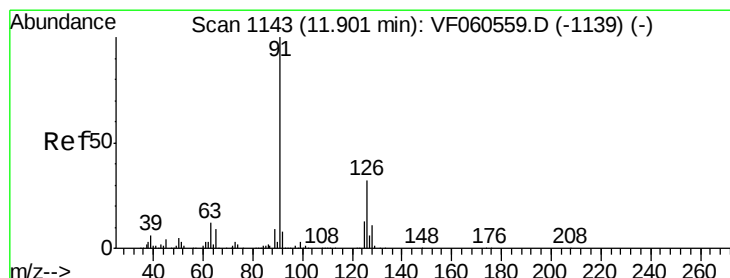
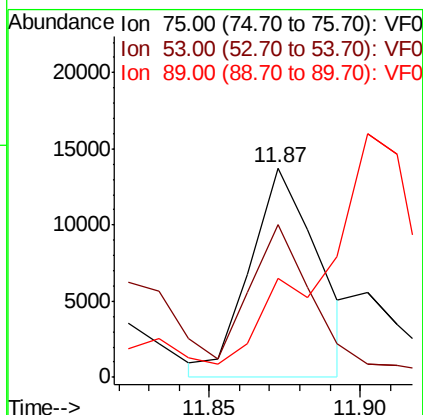
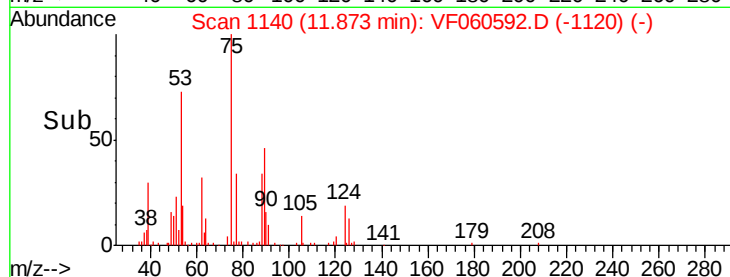
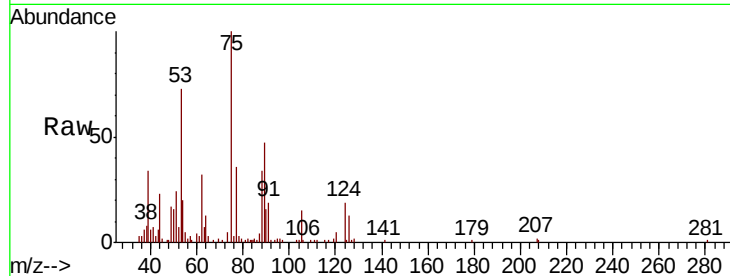
53 72.7 51.6 77.4

89 47.0 36.7 55.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.690 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF060592.D

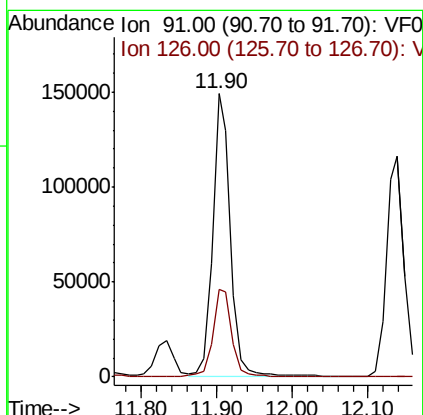
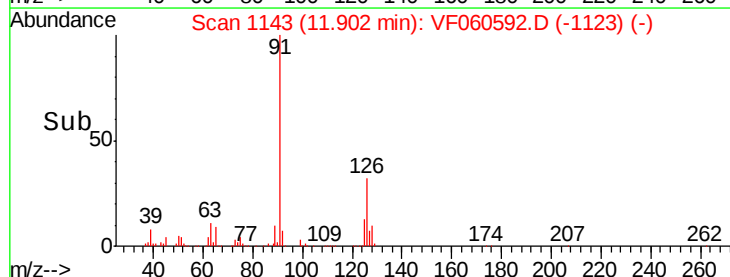
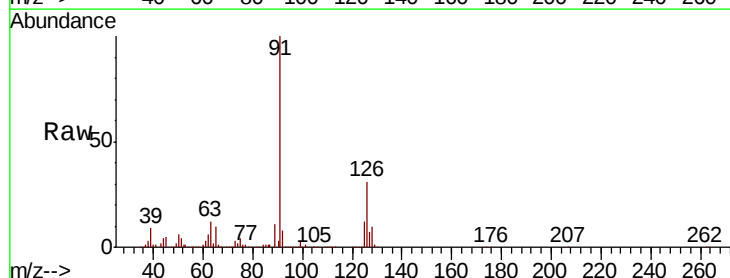
Acq: 6 Nov 2018 3:22

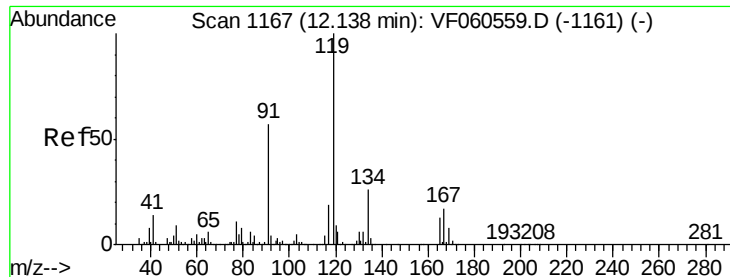
Tgt Ion: 91 Resp: 242532

Ion Ratio Lower Upper

91 100

126 31.1 15.9 47.7





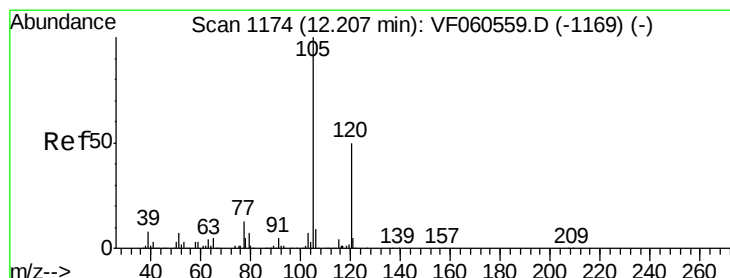
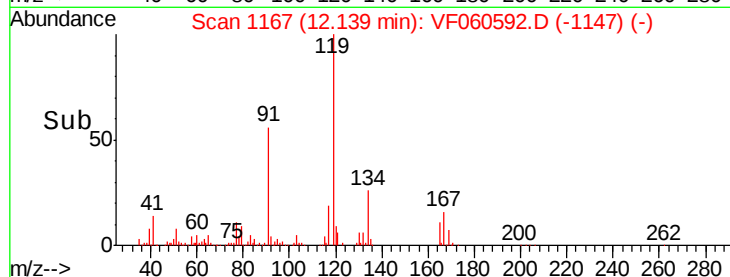
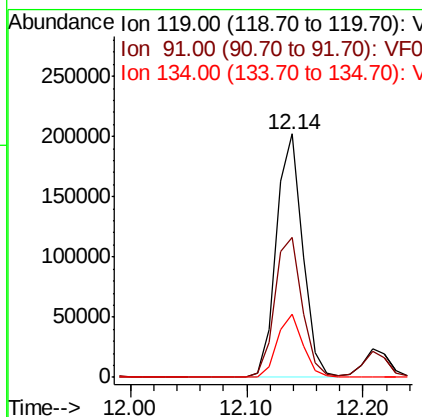
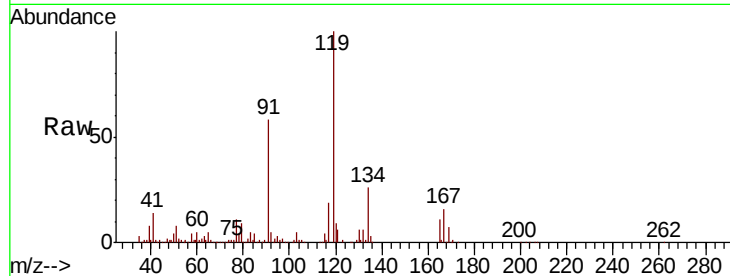
#83
tert-Butylbenzene
Concen: 22.324 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
119	100		
91	57.6	28.8	86.4
134	25.8	13.2	39.6

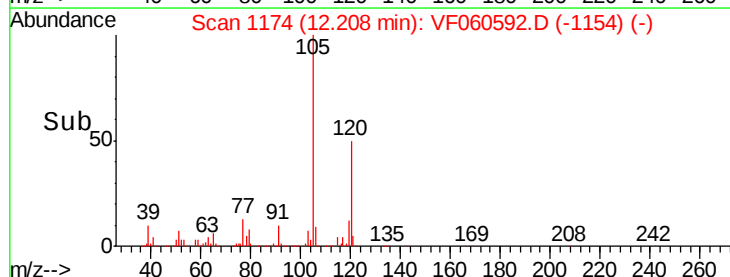
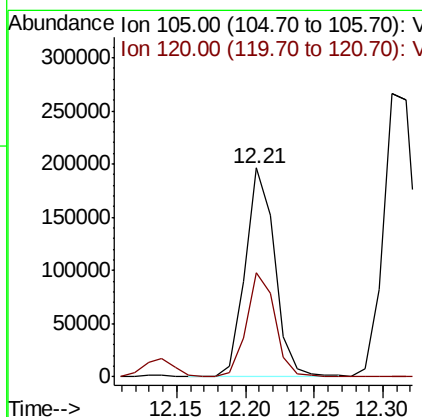
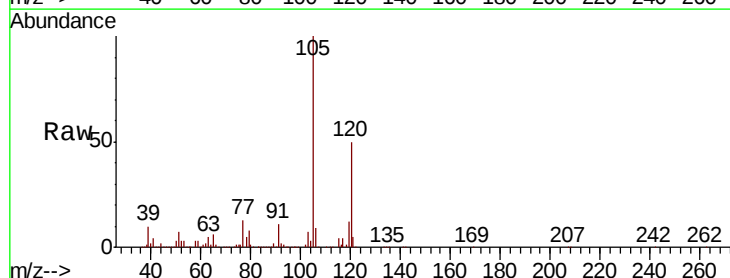
Manual Integrations
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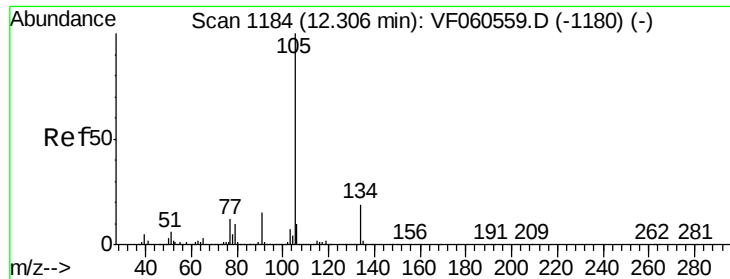
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 21.725 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.1	25.6	76.8





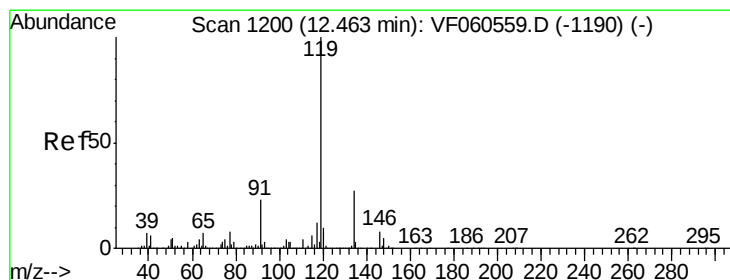
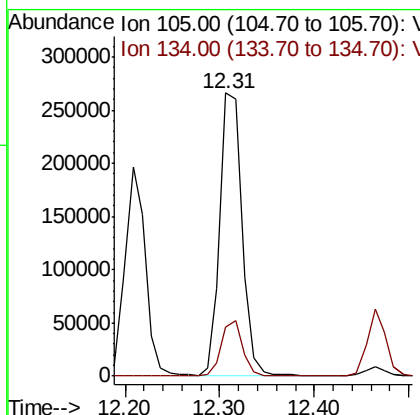
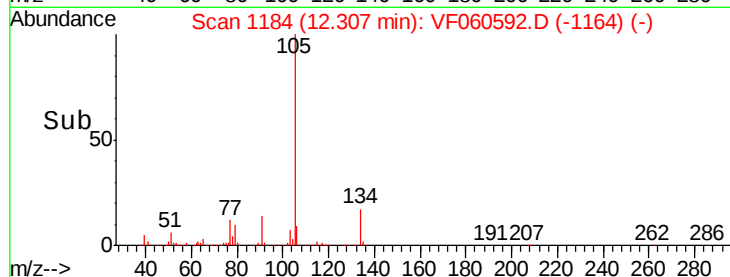
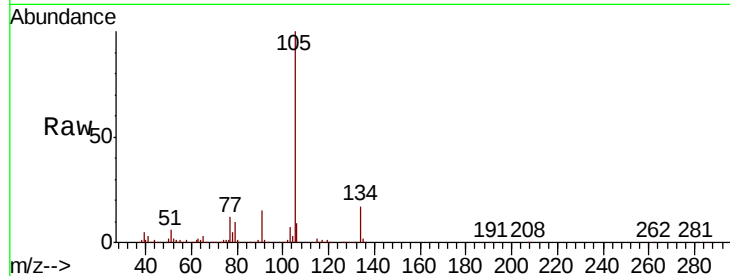
#85
 sec-Butylbenzene
 Concen: 22.268 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS02

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.4	9.7	29.1

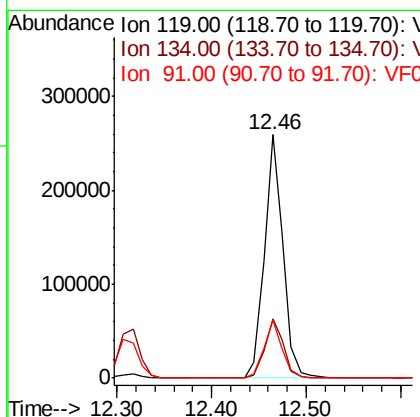
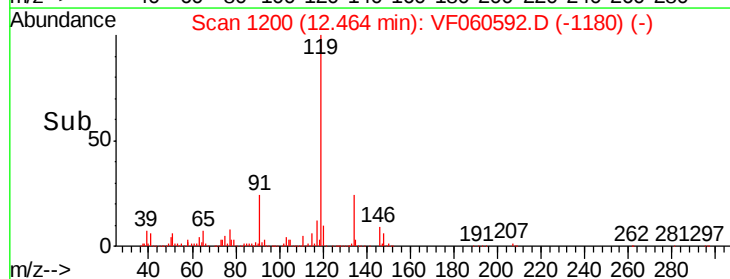
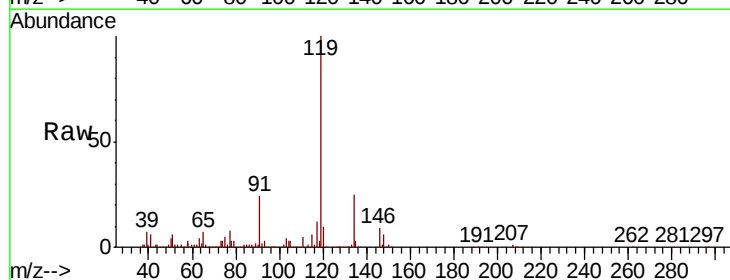
Manual Integrations
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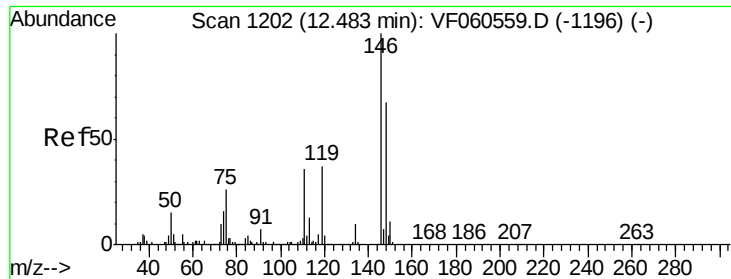
MMDadoda
 11/6/2018 12:53:53 PM



#86
 p-Isopropyltoluene
 Concen: 22.234 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.5	13.6	40.7
91	23.6	11.4	34.2





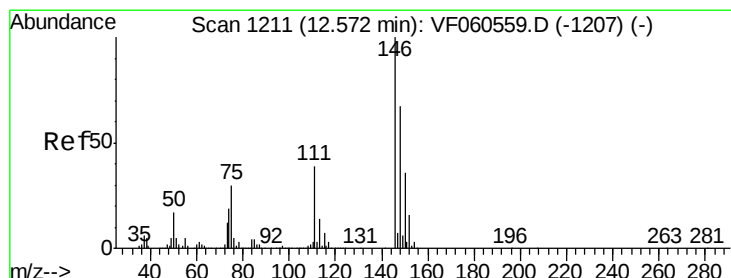
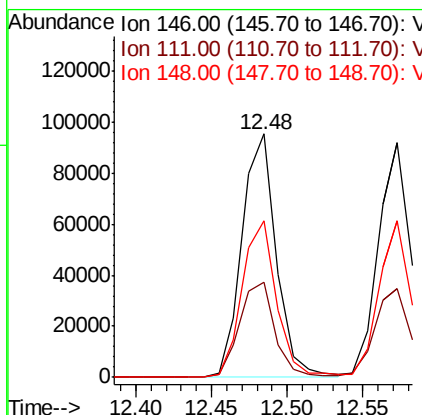
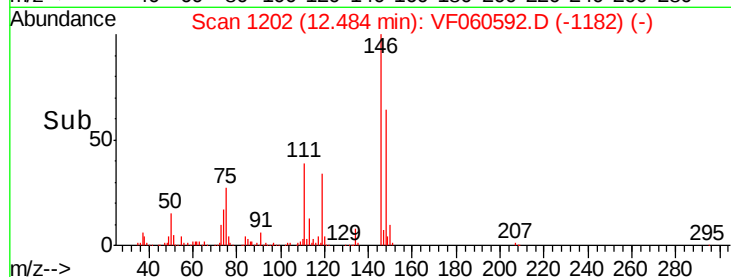
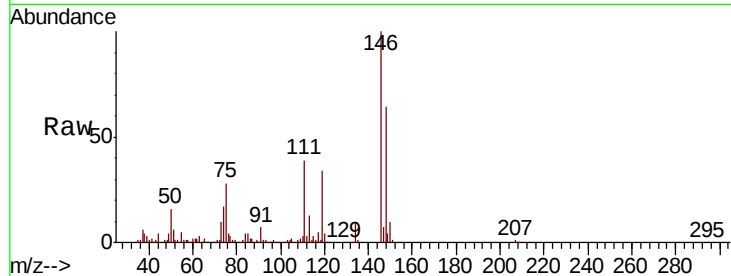
#87
 1,3-Dichlorobenzene
 Concen: 20.890 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	18.3	54.8
148	64.3	33.5	100.4

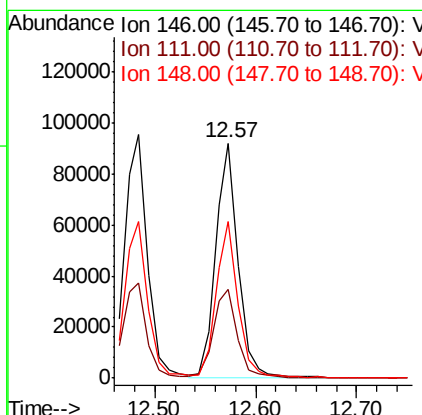
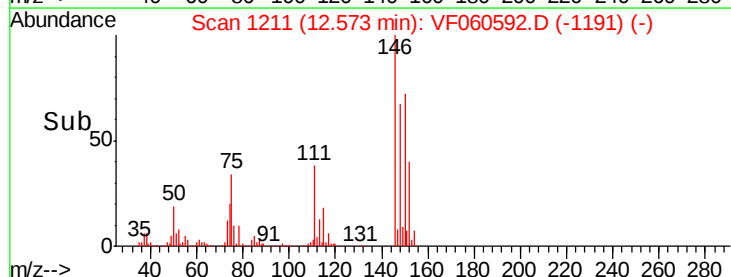
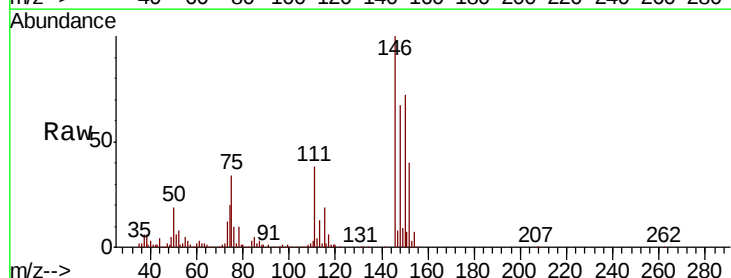
Manual Integrations
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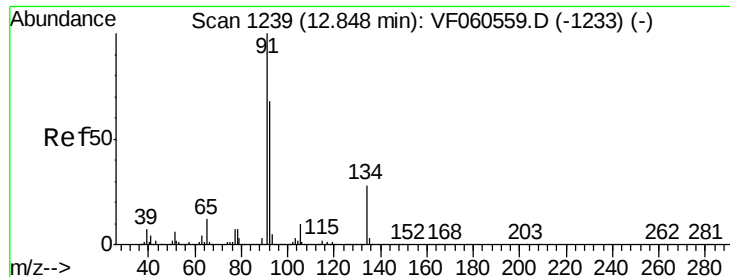
MMDadoda
 11/6/2018 12:53:53 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.839 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.7	59.1
148	66.8	33.7	101.1





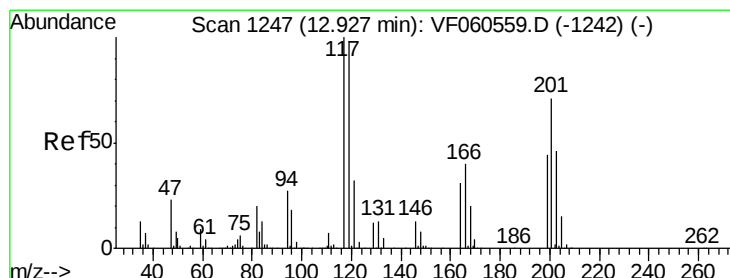
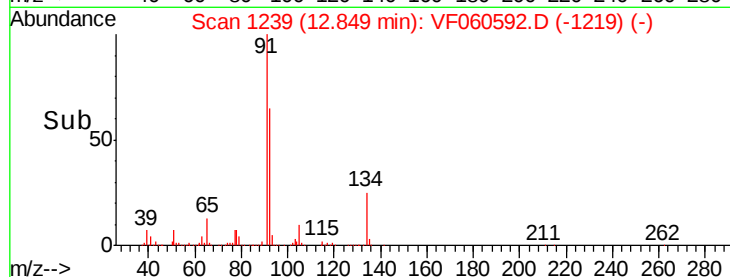
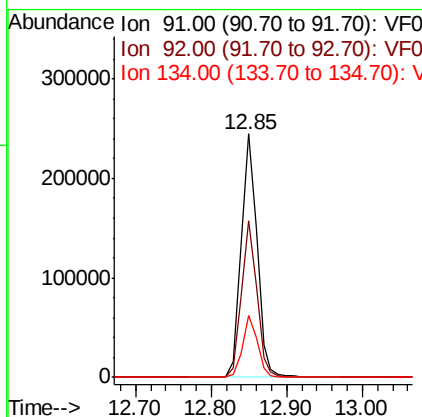
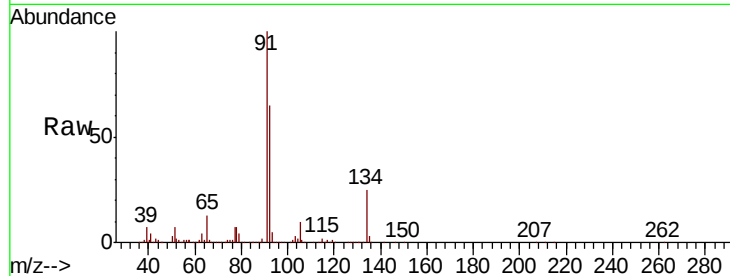
#89
n-Butylbenzene
Concen: 19.986 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.5	34.1	102.2
134	25.4	13.9	41.6

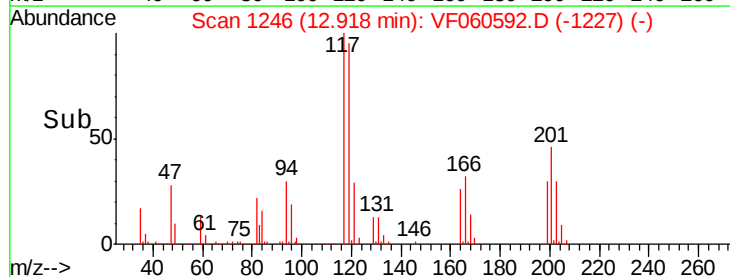
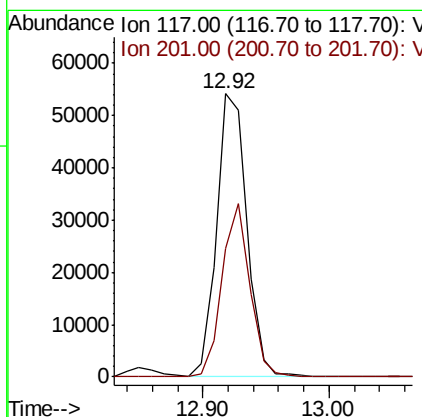
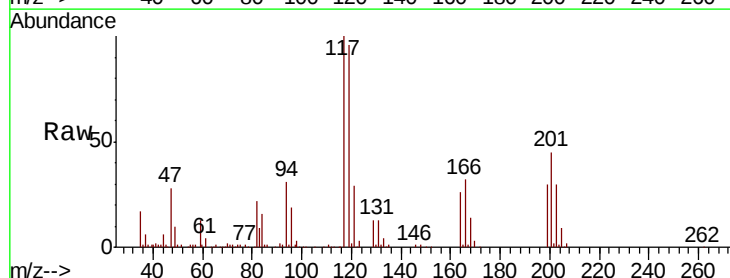
Manual Integrations
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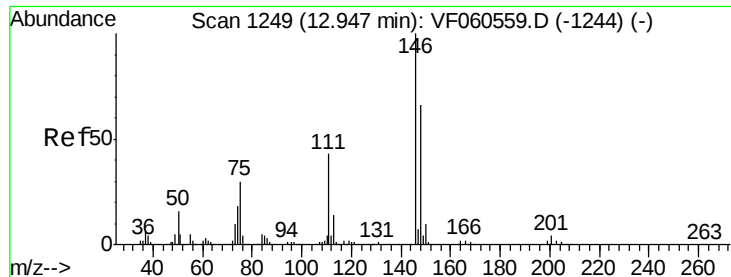
MMDadoda
11/6/2018 12:53:53 PM



#90
Hexachloroethane
Concen: 22.132 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF060592.D
Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
117	100		
201	47.0	35.2	105.6





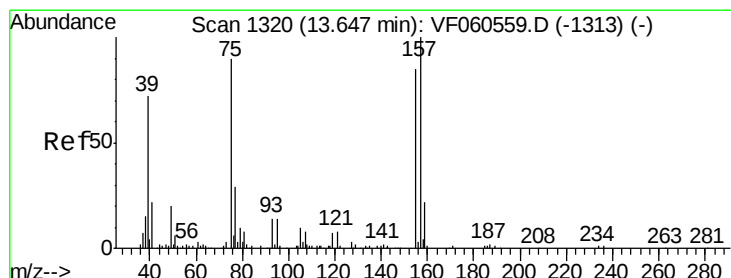
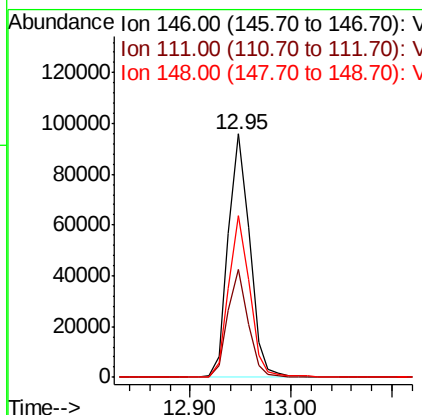
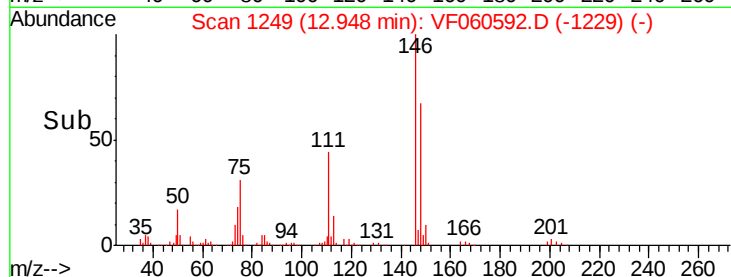
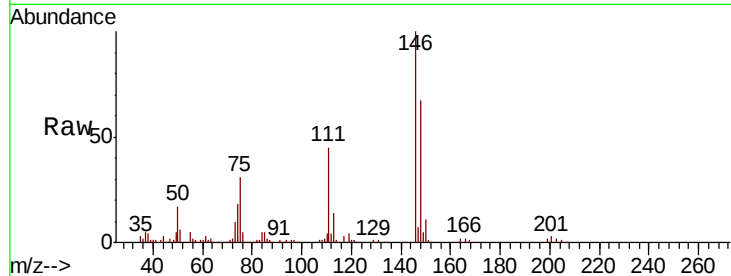
#91
 1,2-Dichlorobenzene
 Concen: 21.047 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.3	64.0
148	66.5	32.9	98.7

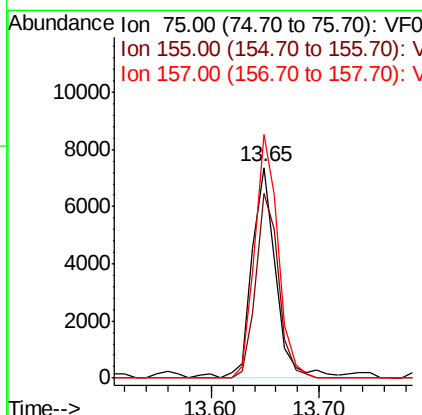
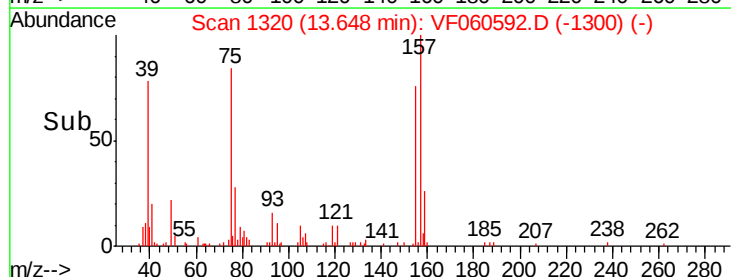
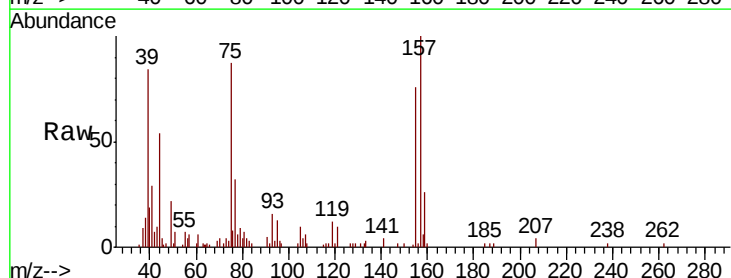
Manual Integrations
 APPROVED

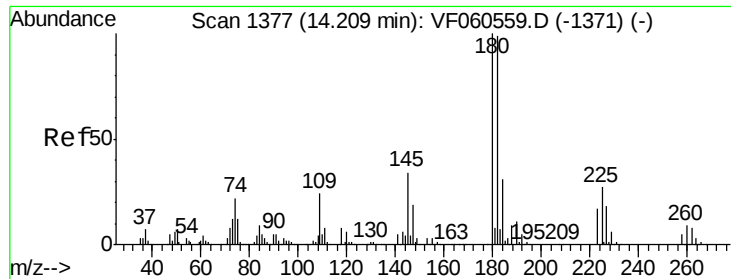
MMDadoda
 11/6/2018 12:53:53 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.295 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.4	47.3	141.8
157	115.4	55.3	165.9





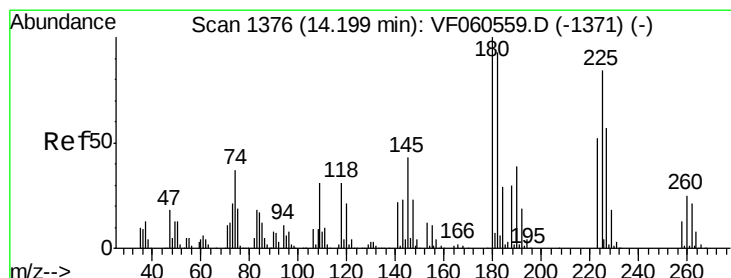
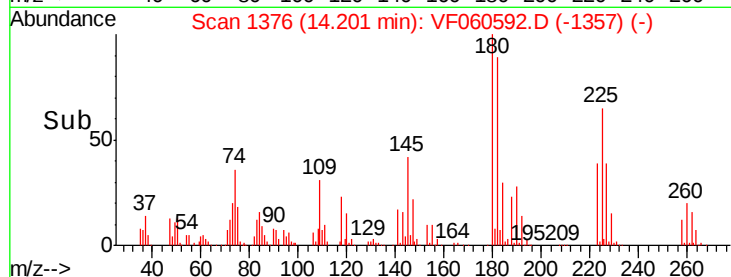
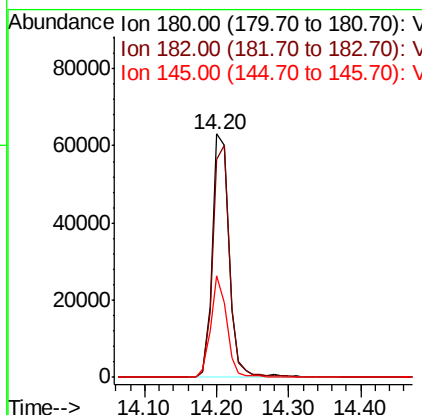
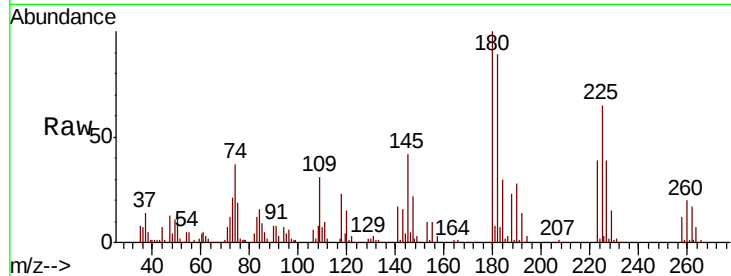
#93
 1,2,4-Trichlorobenzene
 Concen: 22.015 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	101047		
182	89.5	49.7	149.1	
145	41.8	16.9	50.7	

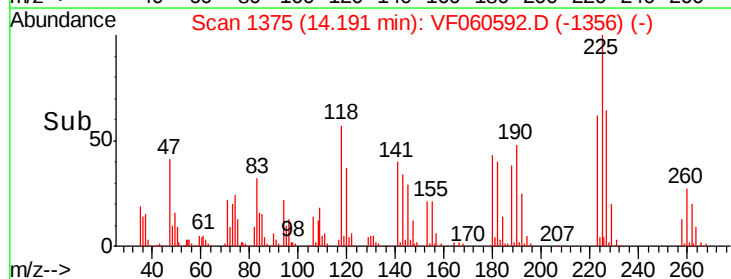
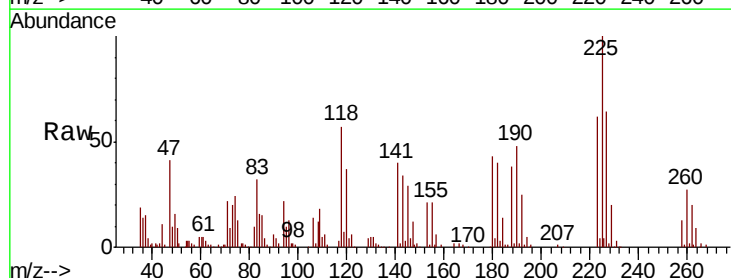
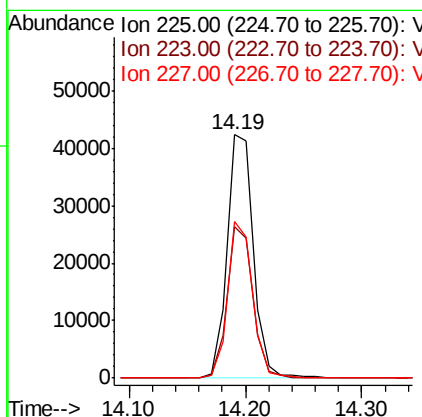
Manual Integrations
 APPROVED

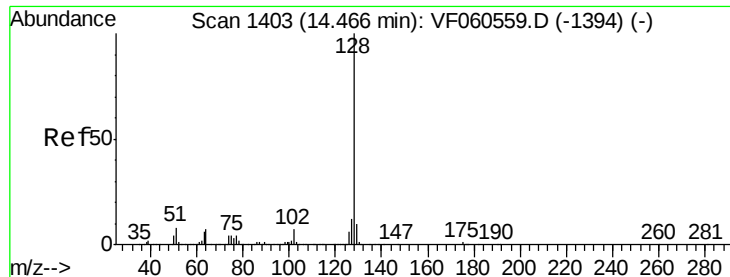
MMDadoda
 11/6/2018 12:53:53 PM



#94
 Hexachlorobutadiene
 Concen: 22.225 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF060592.D
 Acq: 6 Nov 2018 3:22

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	66101		
223	62.4	30.9	92.5	
227	64.5	33.9	101.6	





#95

Naphthalene

Concen: 19.374 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Instrument :

MSVOA_F

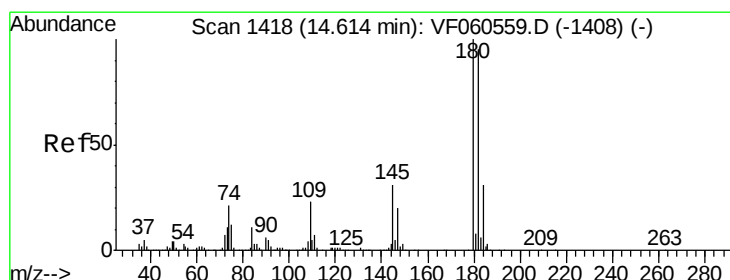
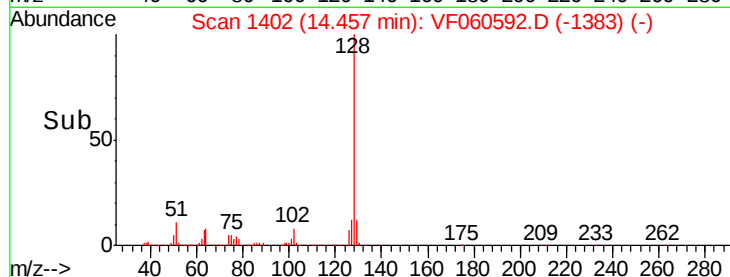
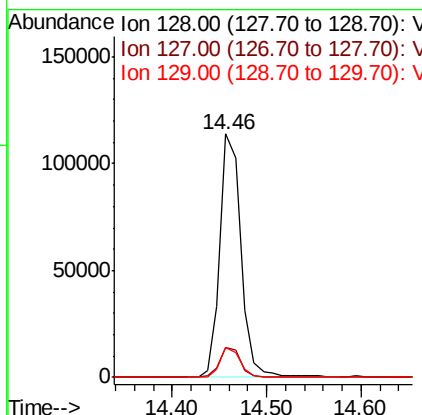
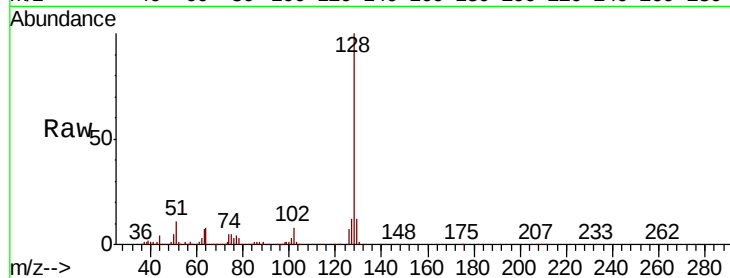
ClientSampleId :

VF1105SBS02

Tot Ion:	128	Resp:	177986
Ion Ratio	Lower	Upper	
128	100		
127	12.3	9.4	14.0
129	12.4	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:53 PM



#96

1,2,3-Trichlorobenzene

Concen: 21.852 ug/l

RT: 14.61 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF060592.D

Acq: 6 Nov 2018 3:22

Tgt Ion:	180	Resp:	94747
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.3	142.0
145	35.9	15.6	46.8

