

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062518.D
 Acq On : 12 May 2019 23:40
 Operator : FY/SY
 Sample : VF0512SBS02
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS02

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 12:24:08 PM

Quant Time: May 13 06:57:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	290920	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	392808	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	338616	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	223549	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	153186	55.72	ug/l	0.02
Spiked Amount	50.000		Recovery	=	111.44%	
35) Dibromofluoromethane	4.32	113	178800	57.13	ug/l	0.02
Spiked Amount	50.000		Recovery	=	114.26%	
50) Toluene-d8	7.73	98	389056	51.36	ug/l	0.02
Spiked Amount	50.000		Recovery	=	102.72%	
62) 4-Bromofluorobenzene	11.50	95	178546	52.24	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.48%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	75088	22.302	ug/l	91
3) Chloromethane	1.14	50	42795	19.272	ug/l	97
4) Vinyl Chloride	1.20	62	42441	19.161	ug/l #	87
5) Bromomethane	1.38	94	40115	22.628	ug/l	93
6) Chloroethane	1.44	64	25314	22.732	ug/l	91
7) Trichlorofluoromethane	1.56	101	104107	22.654	ug/l	97
8) Diethyl Ether	1.71	74	12862	18.497	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.91	101	58640	22.350	ug/l	95
10) Methyl Iodide	1.98	142	102688	23.750	ug/l	99
11) Tert butyl alcohol	2.70	59	13695	88.137	ug/l #	91
12) 1,1-Dichloroethene	1.87	96	47090	21.112	ug/l	97
13) Acrolein	2.11	56	8366	72.078	ug/l	89
14) Allyl chloride	2.21	41	67351	34.183	ug/l	98
15) Acrylonitrile	3.10	53	29937	101.710	ug/l	96
16) Acetone	2.35	43	43242	77.750	ug/l	98
17) Carbon Disulfide	1.92	76	100692	20.704	ug/l	97
18) Methyl Acetate	2.47	43	22349	20.166	ug/l	100
19) Methyl tert-butyl Ether	2.56	73	95576	20.758	ug/l	95
20) Methylene Chloride	2.30	84	45256m	22.491	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	47903	22.542	ug/l	97
22) Diisopropyl ether	2.94	45	131140	21.296	ug/l	95
23) Vinyl Acetate	3.36	43	272615	99.330	ug/l	97
24) 1,1-Dichloroethane	3.02	63	91027	24.458	ug/l	98
25) 2-Butanone	4.54	43	64445	92.232	ug/l	99
26) 2,2-Dichloropropane	3.79	77	55266	26.591	ug/l	98
27) cis-1,2-Dichloroethene	3.66	96	59874	22.540	ug/l	97
28) Bromochloromethane	3.92	49	32554	19.287	ug/l	96
29) Tetrahydrofuran	4.29	42	32068	99.859	ug/l	94
30) Chloroform	4.07	83	122383	24.340	ug/l	93
31) Cyclohexane	3.91	56	63175	21.267	ug/l	95
32) 1,1,1-Trichloroethane	4.30	97	110541	25.651	ug/l	97
36) 1,1-Dichloropropene	4.49	75	68965	20.438	ug/l	98
37) Ethyl Acetate	4.31	43	29820	19.478	ug/l #	95
38) Carbon Tetrachloride	4.21	117	99304m	27.099	ug/l	

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.66	83	73235	21.640	ug/l	95
40) Benzene	4.84	78	155459	20.922	ug/l	96
41) Methacrylonitrile	4.95	41	17054	21.078	ug/l #	58
42) 1,2-Dichloroethane	5.14	62	66336	21.346	ug/l	98
43) Isopropyl Acetate	7.13	43	27159	17.695	ug/l #	99
44) Trichloroethene	5.69	130	64077	23.475	ug/l	95
45) 1,2-Dichloropropane	6.42	63	40115	23.835	ug/l	98
46) Dibromomethane	6.28	93	32375	23.200	ug/l	97
47) Bromodichloromethane	6.57	83	81019	23.222	ug/l #	91
48) Methyl methacrylate	6.89	41	20229	18.650	ug/l	93
49) 1,4-Dioxane	6.89	88	2869	247.350	ug/l #	73
51) 4-Methyl-2-Pentanone	8.42	43	120614	103.709	ug/l	99
52) Toluene	7.79	92	99835	21.779	ug/l	98
53) t-1,3-Dichloropropene	8.44	75	57029	21.612	ug/l	96
54) cis-1,3-Dichloropropene	7.48	75	68688	22.367	ug/l	95
55) 1,1,2-Trichloroethane	8.65	97	33079	22.732	ug/l	96
56) Ethyl methacrylate	8.77	69	28758	18.721	ug/l	98
57) 1,3-Dichloropropane	9.01	76	49194	22.381	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.47	63	43351	93.870	ug/l	100
59) 2-Hexanone	9.64	43	80015	99.479	ug/l	95
60) Dibromochloromethane	8.88	129	53811	22.610	ug/l	99
61) 1,2-Dibromoethane	9.14	107	38355	22.426	ug/l	97
64) Tetrachloroethene	8.32	164	65450	23.809	ug/l	93
65) Chlorobenzene	9.94	112	128231	22.888	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.07	131	67284	23.806	ug/l	95
67) Ethyl Benzene	10.04	91	218791	22.301	ug/l	99
68) m/p-Xylenes	10.27	106	169298	46.770	ug/l	99
69) o-Xylene	10.83	106	88488	22.623	ug/l	92
70) Styrene	10.90	104	134279	22.906	ug/l	97
71) Bromoform	10.89	173	33302	21.507	ug/l #	99
73) Isopropylbenzene	11.22	105	283698	21.407	ug/l	98
74) N-amyl acetate	11.46	43	46674	16.404	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.78	83	45292	21.827	ug/l	95
76) 1,2,3-Trichloropropane	11.88	75	33571	21.205	ug/l #	100
77) Bromobenzene	11.59	156	76015	21.855	ug/l	97
78) n-propylbenzene	11.68	91	304097	21.552	ug/l	99
79) 2-Chlorotoluene	11.81	91	183404	20.904	ug/l	100
80) 1,3,5-Trimethylbenzene	11.90	105	253733	21.843	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.95	75	10356m	17.403	ug/l	
82) 4-Chlorotoluene	11.98	91	180640	20.846	ug/l	98
83) tert-Butylbenzene	12.20	119	258719	21.193	ug/l	100
84) 1,2,4-Trimethylbenzene	12.28	105	245287	21.578	ug/l	98
85) sec-Butylbenzene	12.38	105	321280	21.622	ug/l	99
86) p-Isopropyltoluene	12.53	119	302386	21.903	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	147097	23.156	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	133705	21.808	ug/l	98
89) n-Butylbenzene	12.90	91	275665	22.444	ug/l	96
90) Hexachloroethane	12.98	117	72673	21.083	ug/l	98
91) 1,2-Dichlorobenzene	13.01	146	142577	23.189	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.70	75	8823	18.979	ug/l	97

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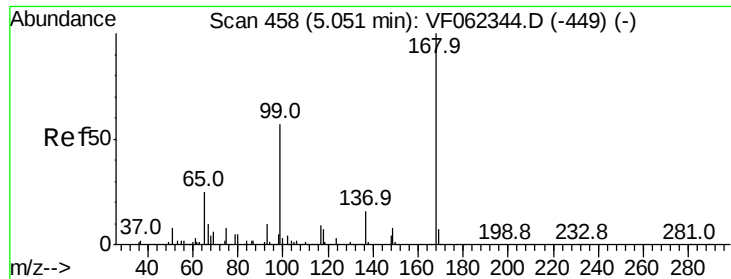
Manual Integrations
APPROVED

MMDadoda
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	120544	21.858	µg/l	98
94) Hexachlorobutadiene	14.23	225	90216	21.948	µg/l	96
95) Naphthalene	14.50	128	157775	19.029	µg/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	115628	21.642	µg/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion:168 Resp: 290920

Ion Ratio Lower Upper

168 100

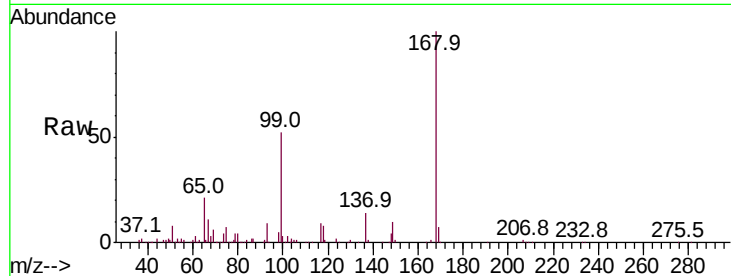
99 51.9 45.9 68.9

Manual Integrations

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5/13/2019 12:24:08 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.07

100000

80000

60000

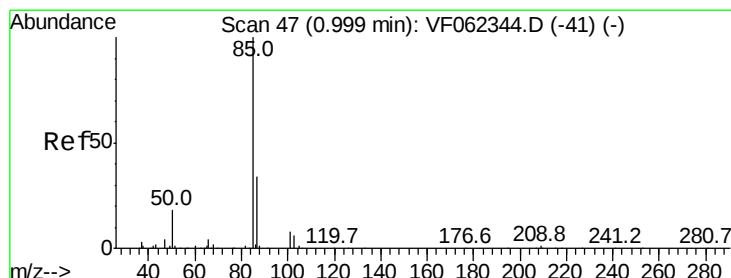
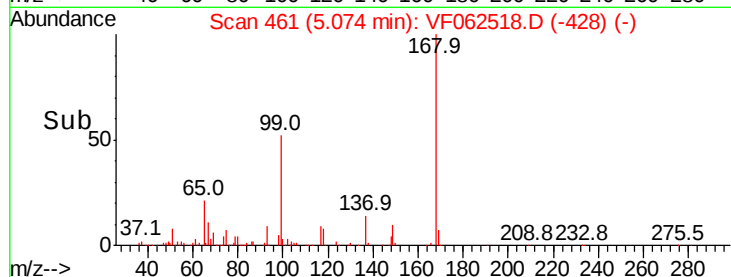
40000

20000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 22.302 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062518.D

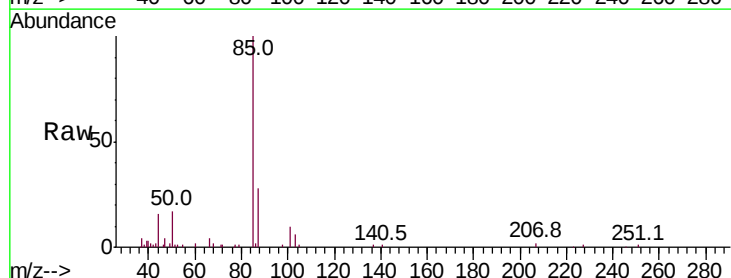
Acq: 12 May 2019 23:40

Tgt Ion: 85 Resp: 75088

Ion Ratio Lower Upper

85 100

87 28.4 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

25000

20000

15000

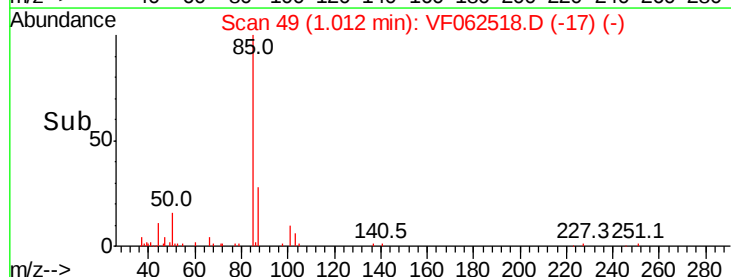
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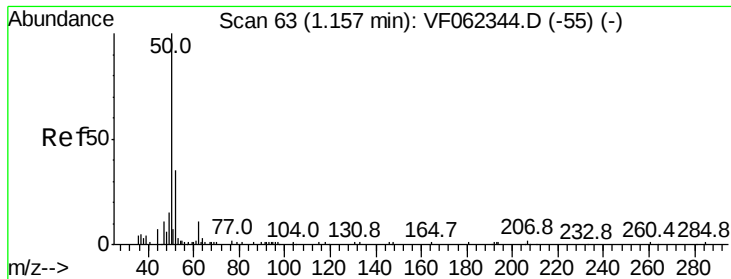
5000

0

Time-->

1.00 1.20





#3

Chloromethane

Concen: 19.272 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 50 Resp: 42795

Ion Ratio Lower Upper

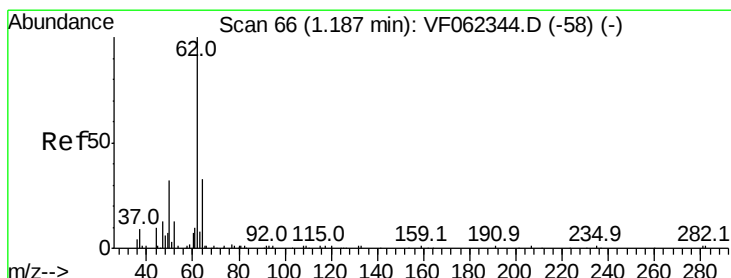
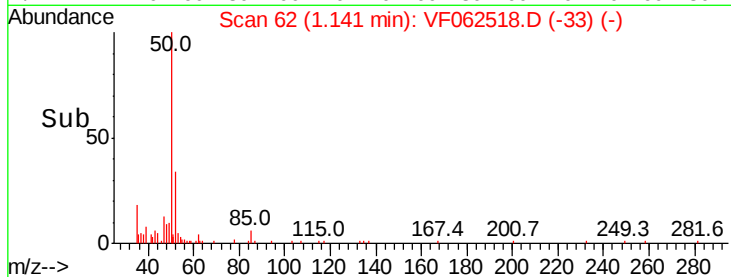
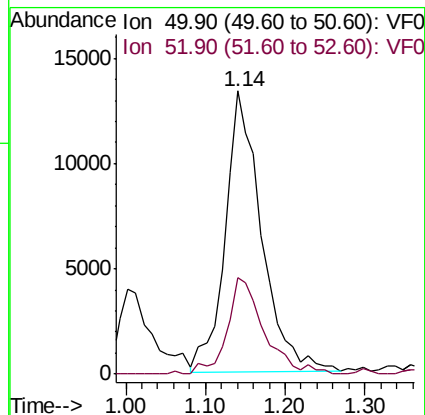
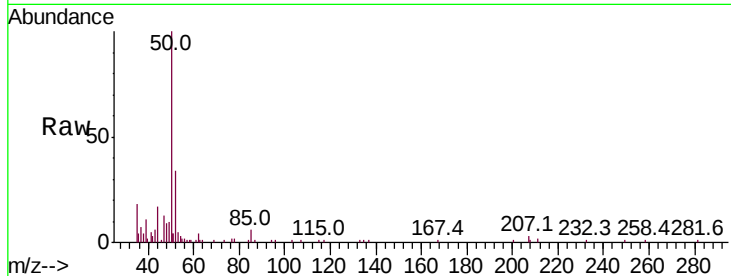
50 100

52 34.5 26.1 39.1

Manual Integrations
APPROVED

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5/13/2019 12:24:08 PM



#4

Vinyl Chloride

Concen: 19.161 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.01 min

Lab File: VF062518.D

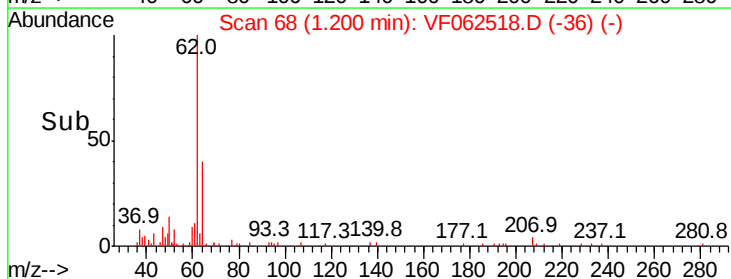
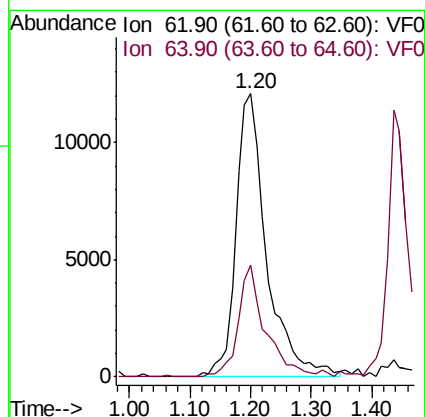
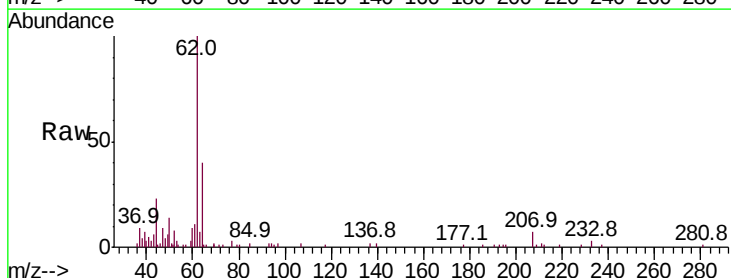
Acq: 12 May 2019 23:40

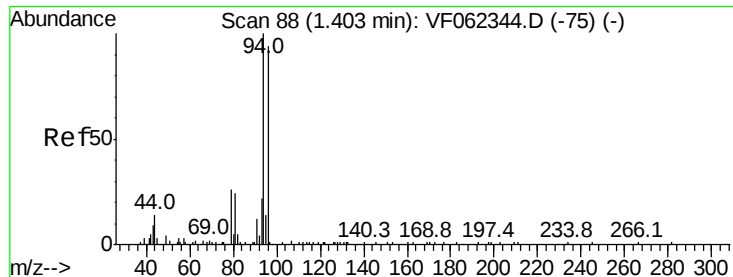
Tgt Ion: 62 Resp: 42441

Ion Ratio Lower Upper

62 100

64 39.7 26.1 39.1#





#5

Bromomethane

Concen: 22.628 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.03 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 94 Resp: 40115

Ion Ratio Lower Upper

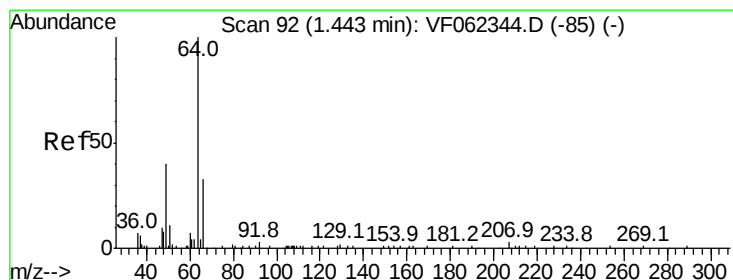
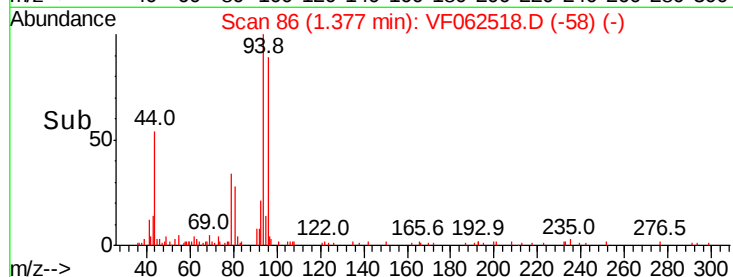
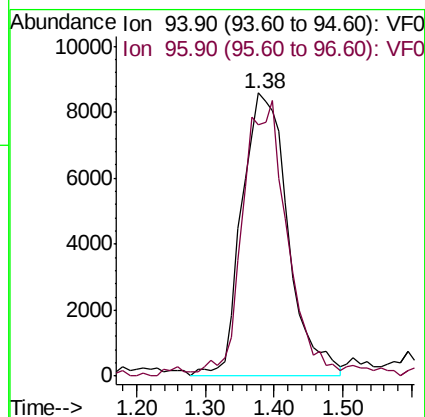
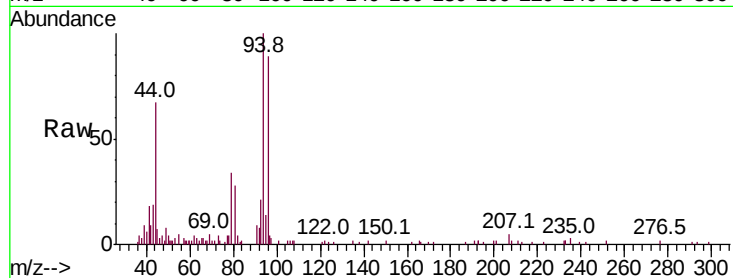
94 100

96 87.1 75.4 113.2

Manual Integrations
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#6

Chloroethane

Concen: 22.732 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062518.D

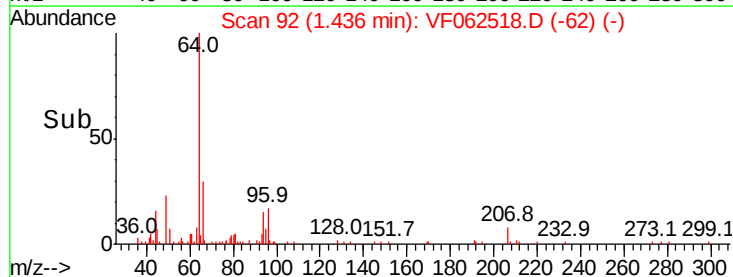
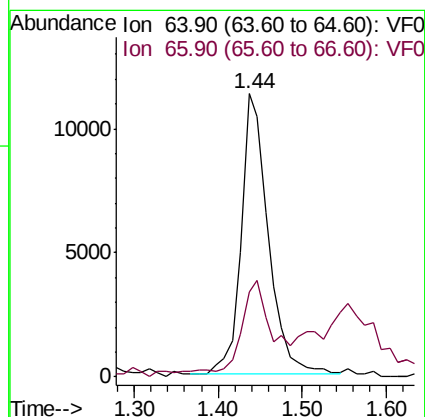
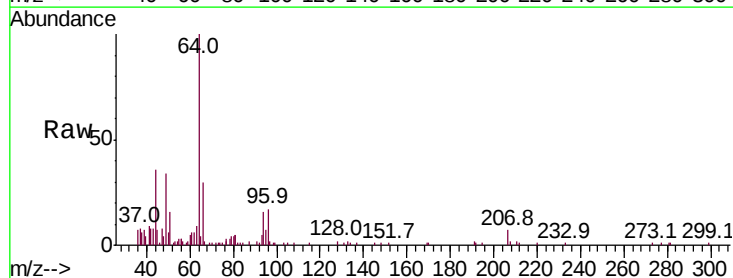
Acq: 12 May 2019 23:40

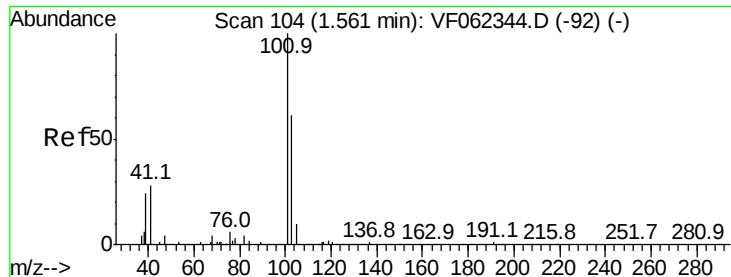
Tgt Ion: 64 Resp: 25314

Ion Ratio Lower Upper

64 100

66 28.2 26.6 39.8





#7

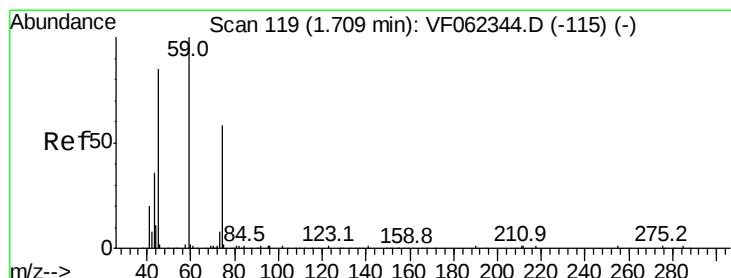
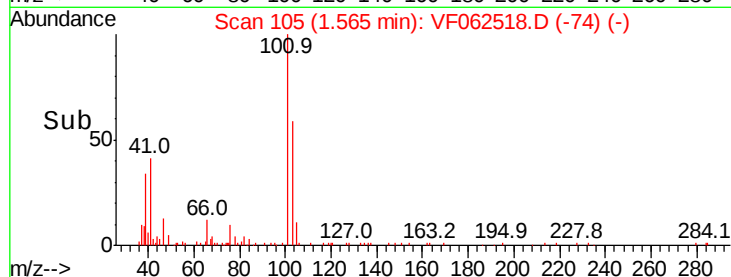
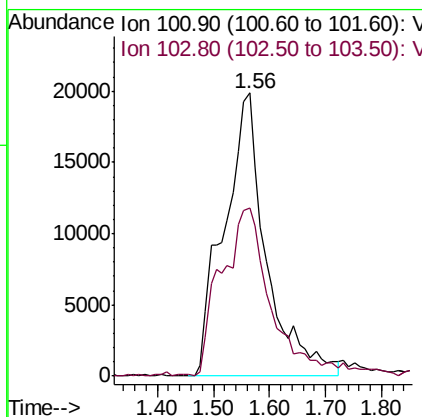
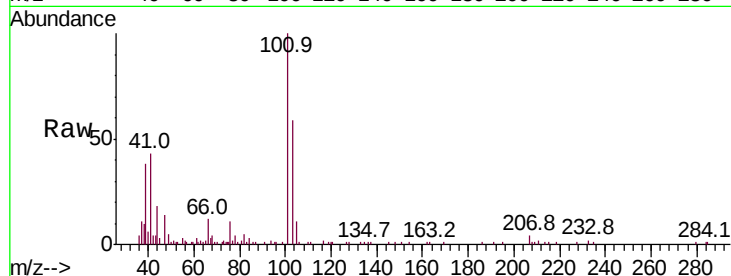
Trichlorofluoromethane
Concen: 22.654 ug/l
RT: 1.56 min Scan# 105
Delta R.T. 0.00 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
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ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.5	48.5	72.7

Manual Integrations
APPROVED

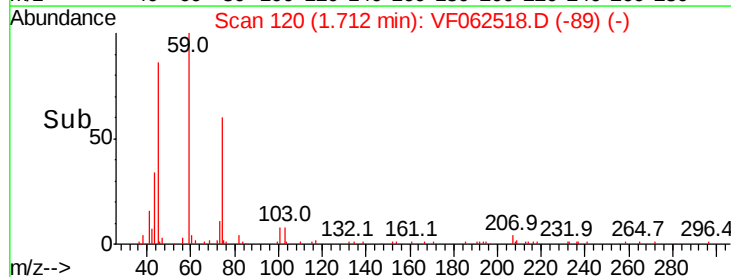
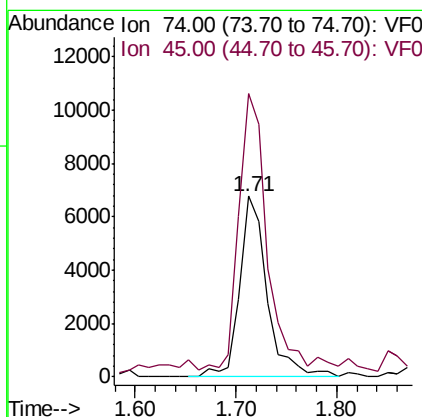
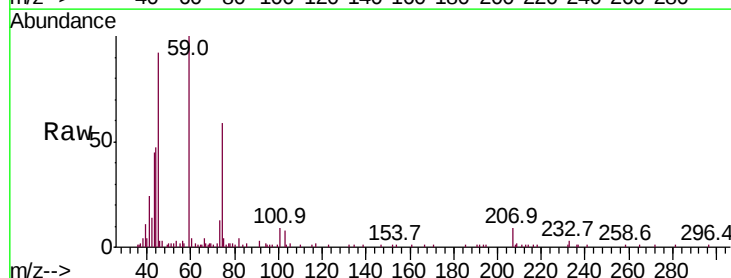
MMDadoda
5/13/2019 12:24:08 PM

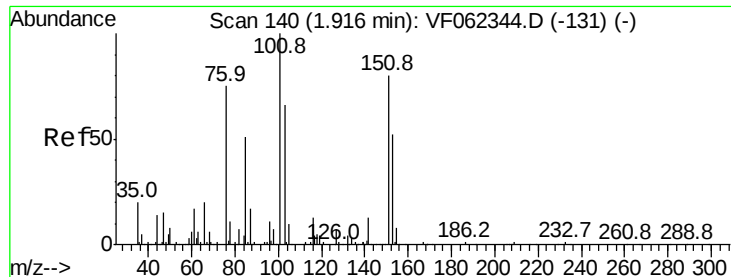


#8

Diethyl Ether
Concen: 18.497 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.00 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
74	100		
45	159.4	73.9	221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.350 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

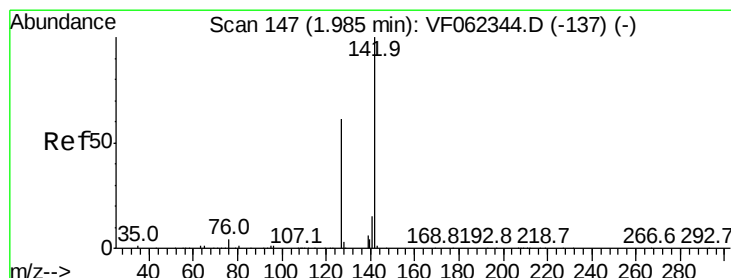
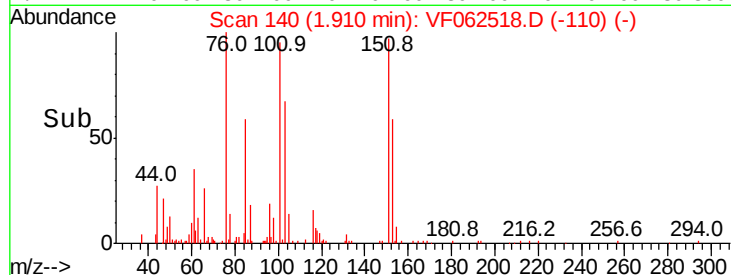
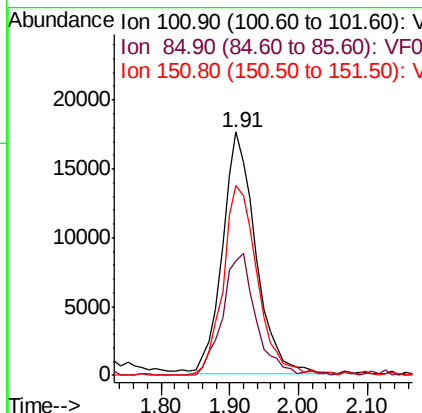
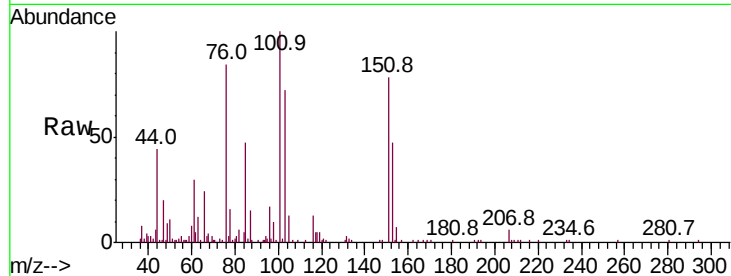
ClientSampleId :

VF0512SBS02

Tot Ion:	101	Resp:	58640
Ion Ratio	Lower	Upper	
101	100		
85	50.4	39.5	59.3
151	81.5	59.9	89.9

Manual Integrations
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#10

Methyl Iodide

Concen: 23.750 ug/l

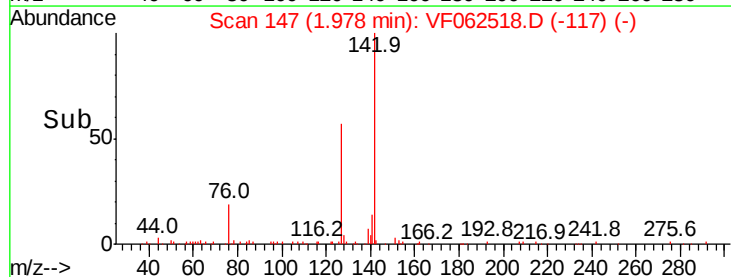
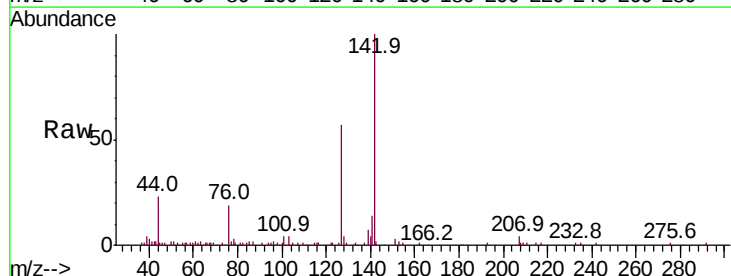
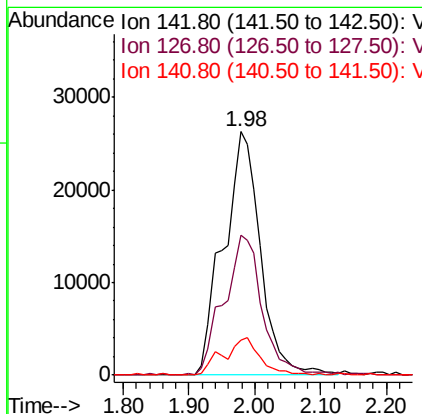
RT: 1.98 min Scan# 147

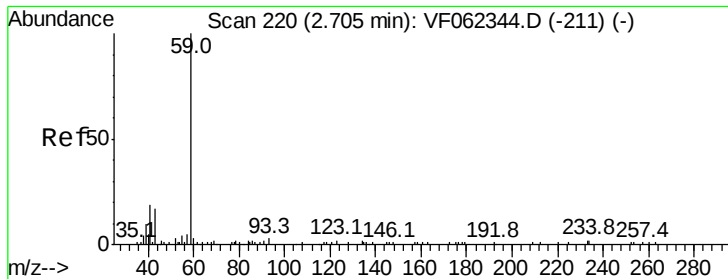
Delta R.T. -0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion:	142	Resp:	102688
Ion Ratio	Lower	Upper	
142	100		
127	59.7	48.4	72.6
141	15.4	12.2	18.4





#11

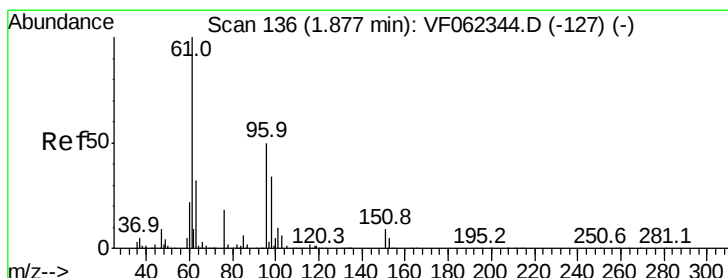
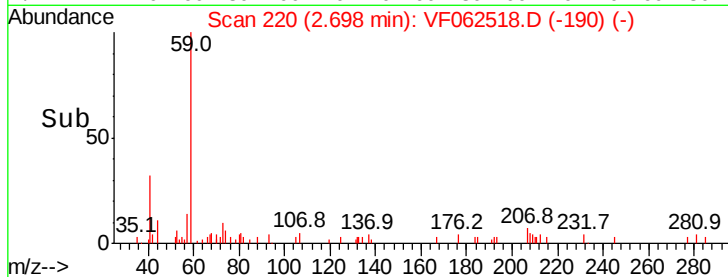
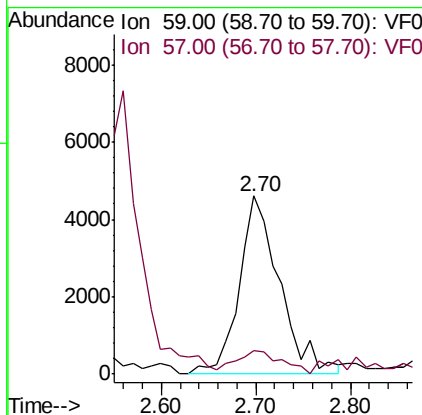
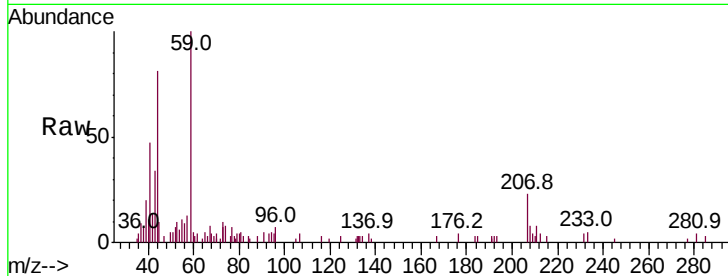
Tert butyl alcohol
 Concen: 88.137 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS02

Tot Ion	59	Resp	13695
Ion Ratio	100	Lower	Upper
57	14.9	9.3	13.9#

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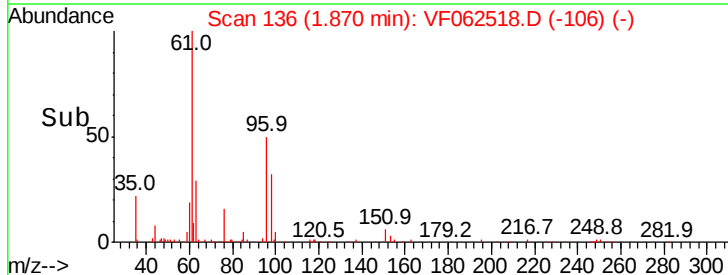
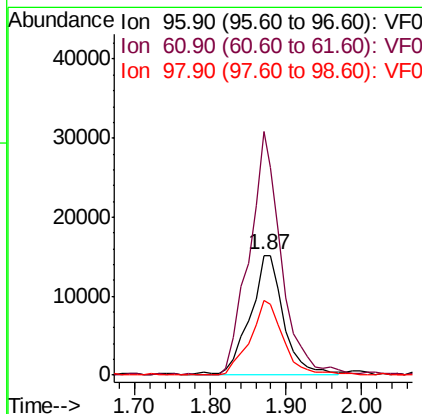
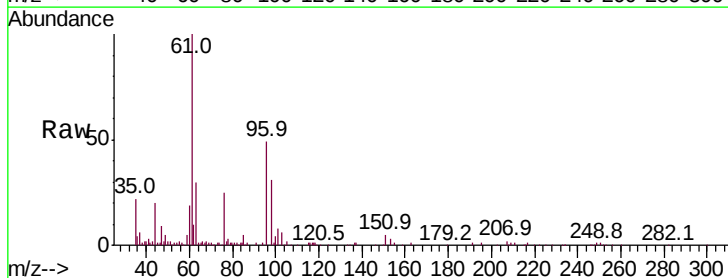
MMDadoda
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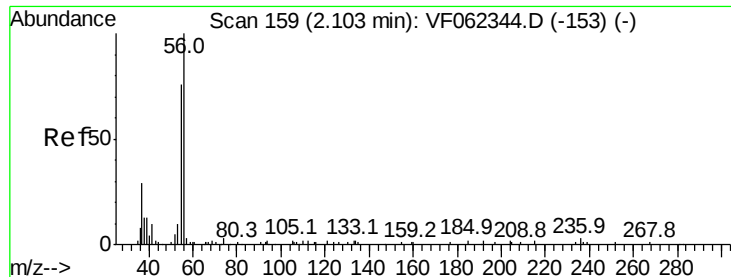


#12

1,1-Dichloroethene
 Concen: 21.112 ug/l
 RT: 1.87 min Scan# 136
 Delta R.T. -0.01 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Tgt Ion	96	Resp	47090
Ion Ratio	100	Lower	Upper
61	202.4	163.2	244.8
98	62.9	55.2	82.8





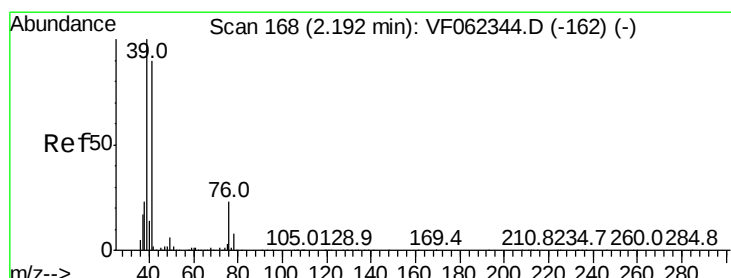
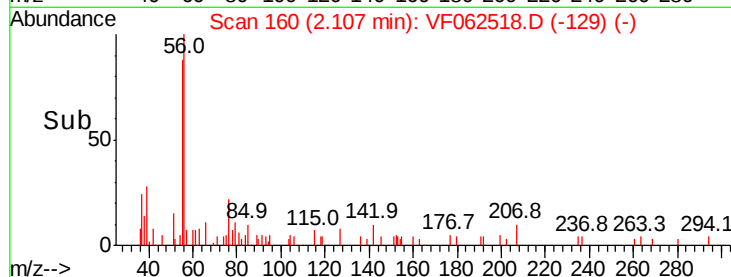
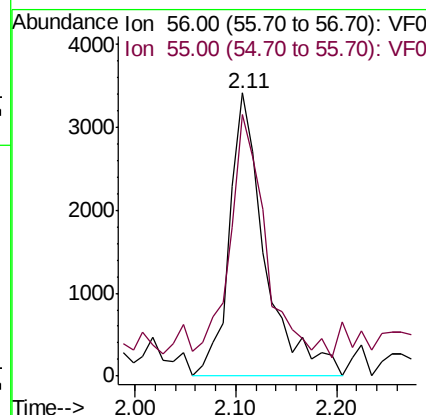
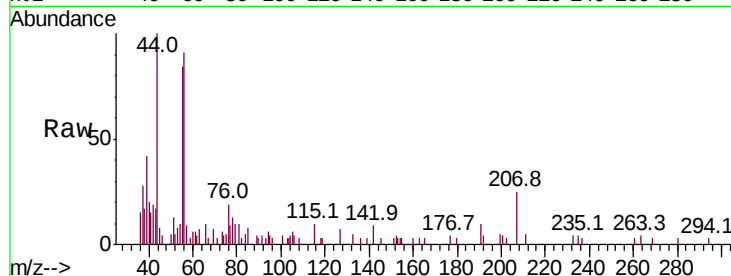
#13
Acrolein
Concen: 72.078 ug/l
RT: 2.11 min Scan# 160
Delta R.T. 0.00 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Lower	Upper
56	100		
55	82.6	58.4	87.6

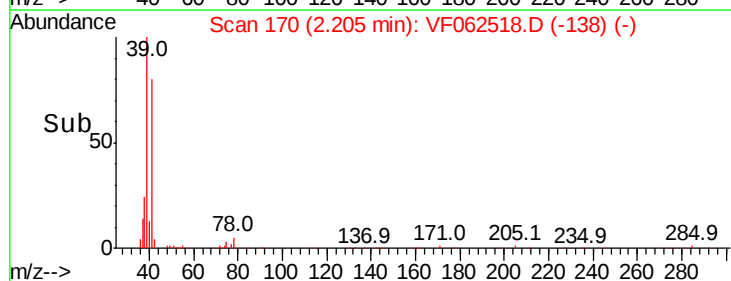
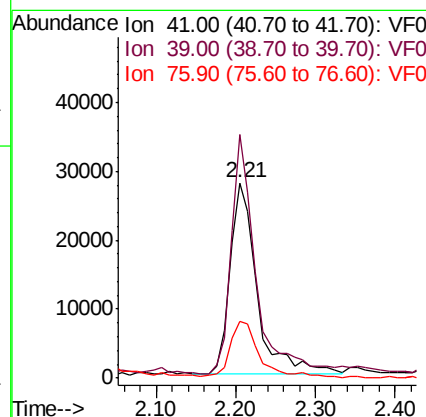
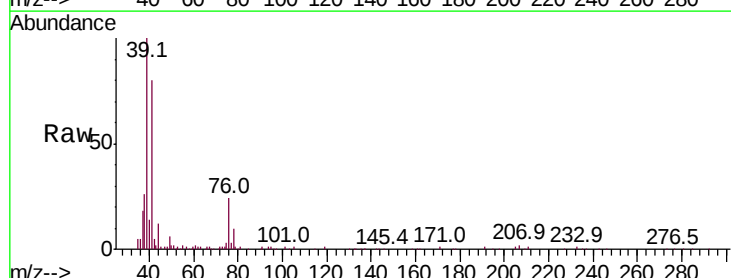
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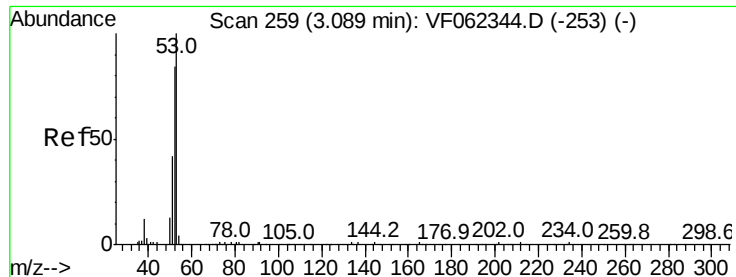
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#14
Allyl chloride
Concen: 34.183 ug/l
RT: 2.21 min Scan# 170
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
41	100		
39	113.1	90.8	136.2
76	33.1	22.2	33.4





#15

Acrylonitrile

Concen: 101.710 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

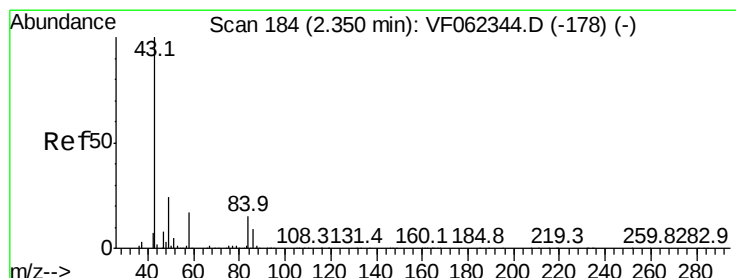
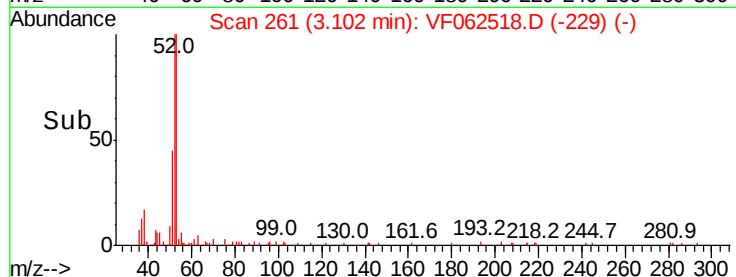
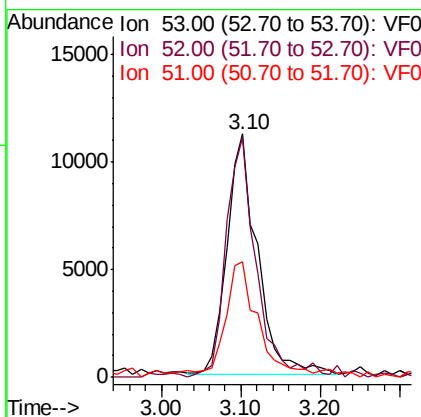
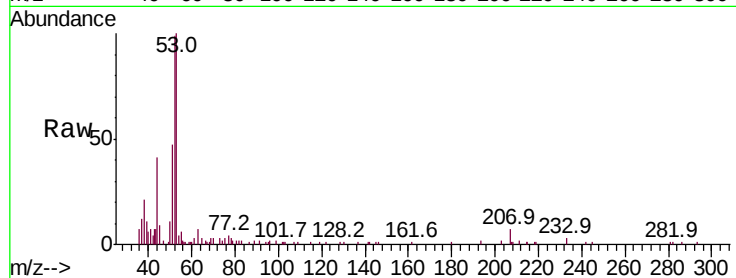
ClientSampleId :

VF0512SBS02

Tot Ion:	53	Resp:	29937
Ion	Ratio	Lower	Upper
53	100		
52	99.1	77.2	115.8
51	46.0	40.6	61.0

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#16

Acetone

Concen: 77.750 ug/l

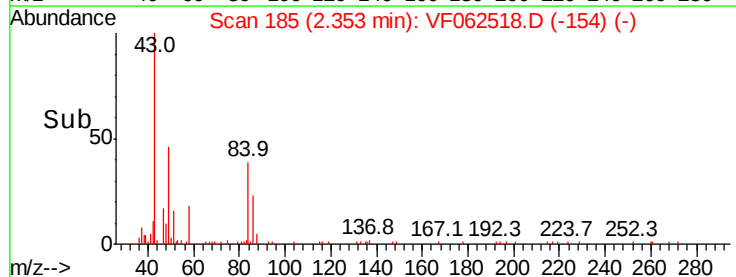
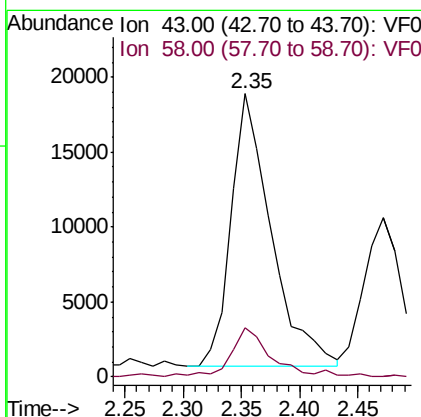
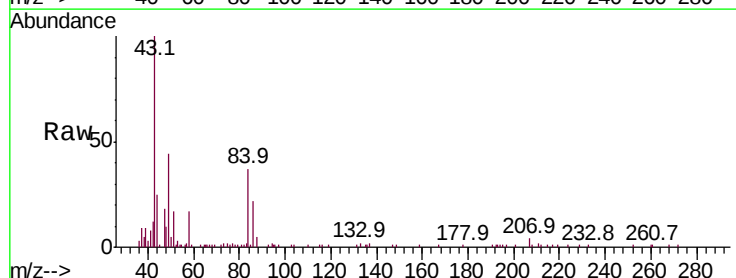
RT: 2.35 min Scan# 185

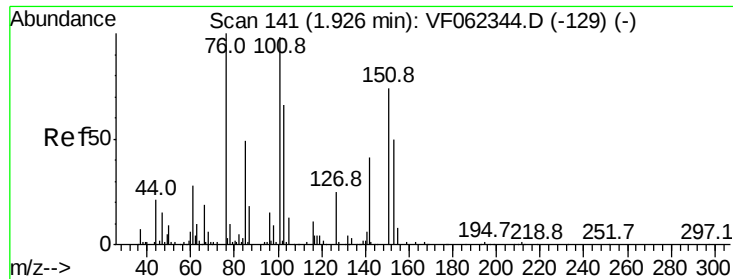
Delta R.T. 0.00 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion:	43	Resp:	43242
Ion	Ratio	Lower	Upper
43	100		
58	17.3	13.1	19.7





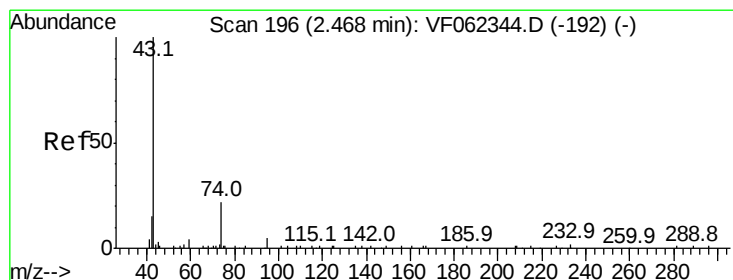
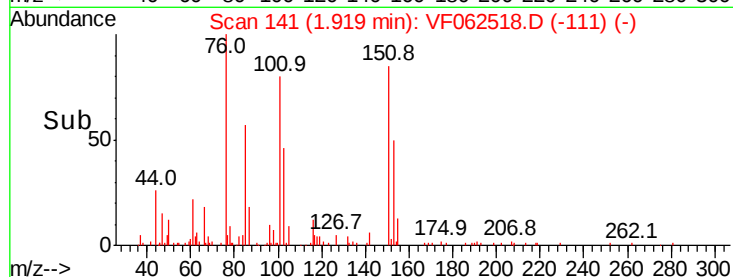
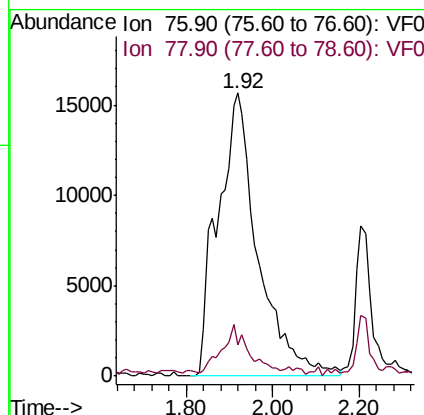
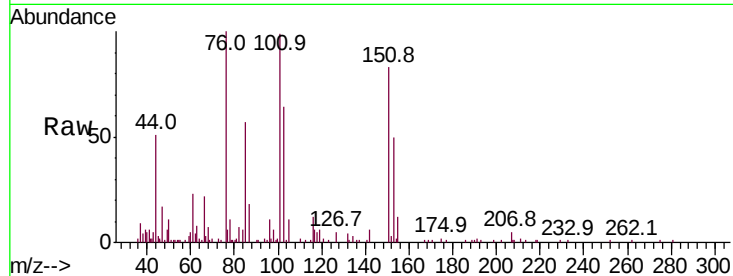
#17
Carbon Disulfide
Concen: 20.704 ug/l
RT: 1.92 min Scan# 141
Delta R.T. -0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion: 76 Resp: 100692
Ion Ratio Lower Upper
76 100
78 10.2 9.0 13.4

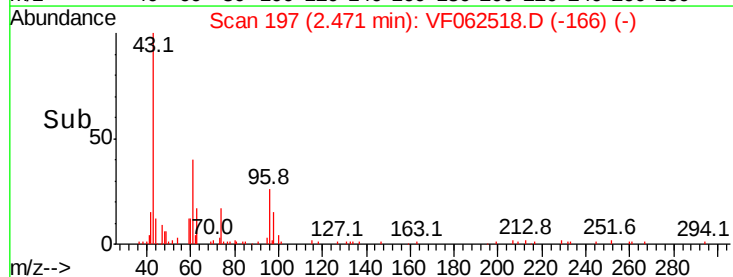
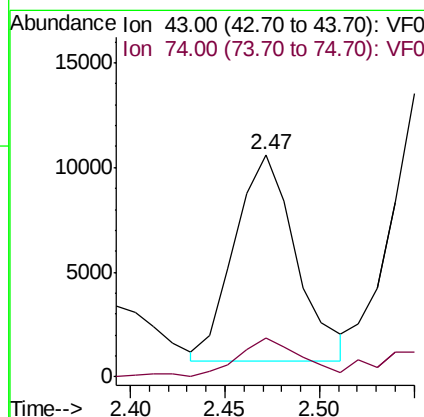
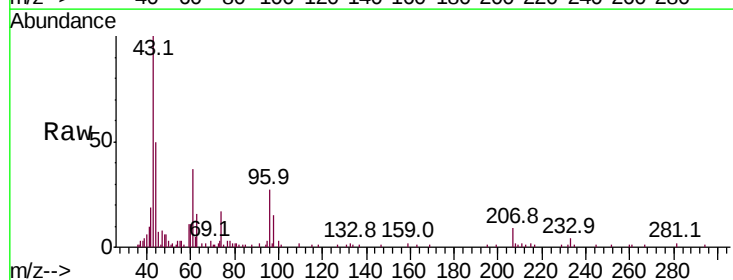
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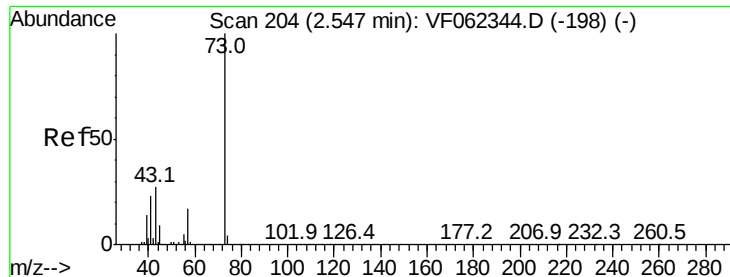
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#18
Methyl Acetate
Concen: 20.166 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion: 43 Resp: 22349
Ion Ratio Lower Upper
43 100
74 18.9 15.0 22.4





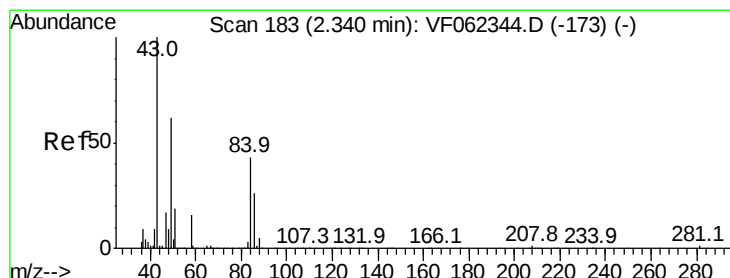
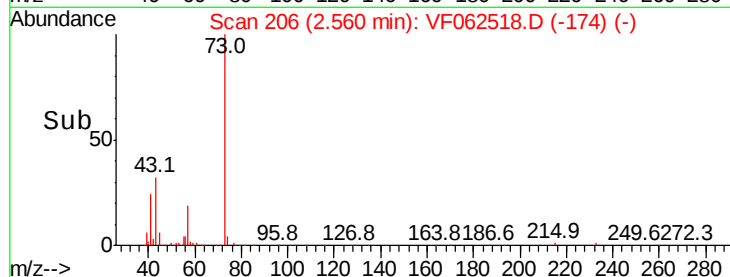
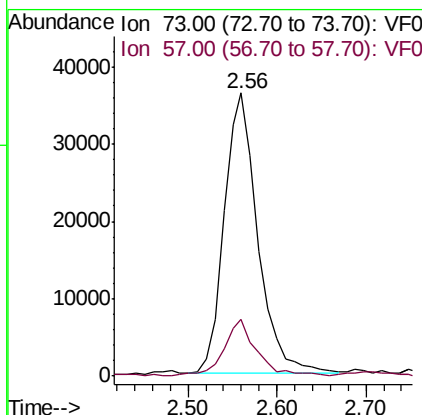
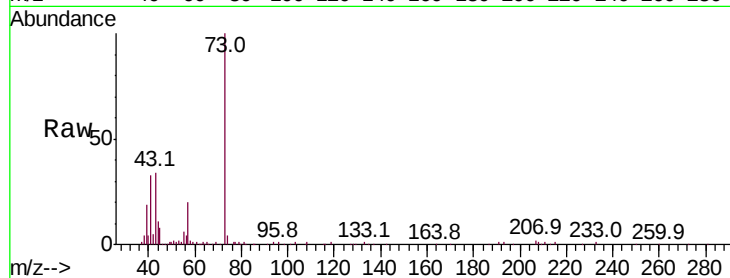
#19
Methvl tert-butvl Ether
Concen: 20.758 ug/l
RT: 2.56 min Scan# 206
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion: 73 Resp: 95576
Ion Ratio Lower Upper
73 100
57 19.4 13.7 20.5

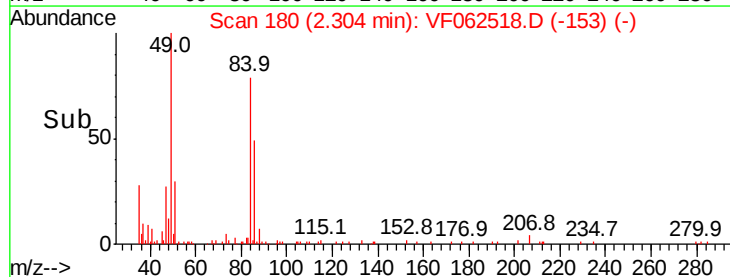
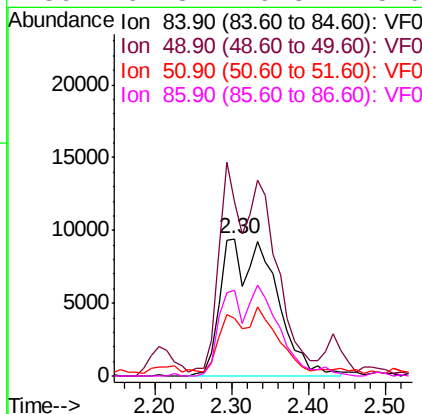
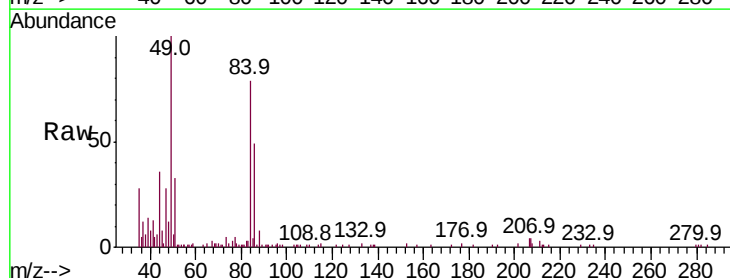
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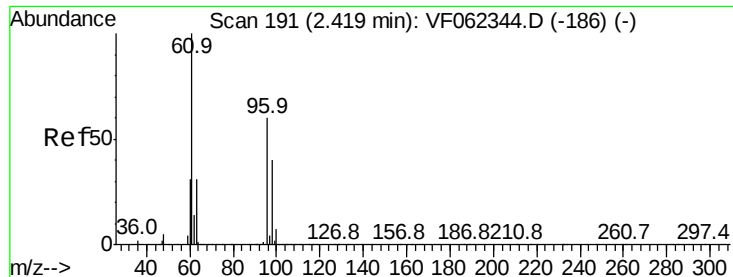
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#20
Methylene Chloride
Concen: 22.491 ug/l m
RT: 2.30 min Scan# 180
Delta R.T. -0.04 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion: 84 Resp: 45256
Ion Ratio Lower Upper
84 100
49 127.0 117.5 176.3
51 41.9 37.0 55.4
86 62.3 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 22.542 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

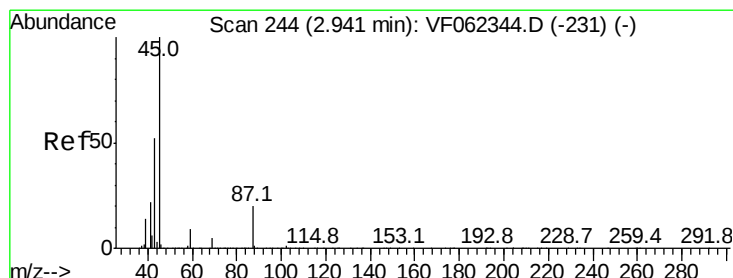
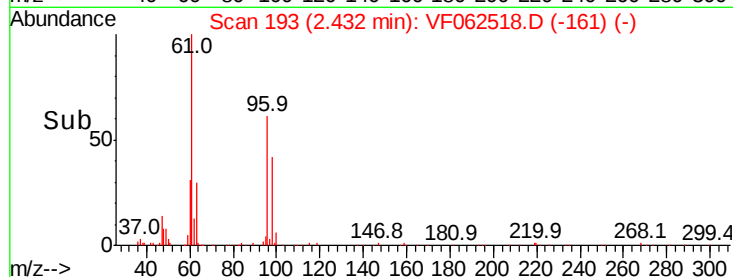
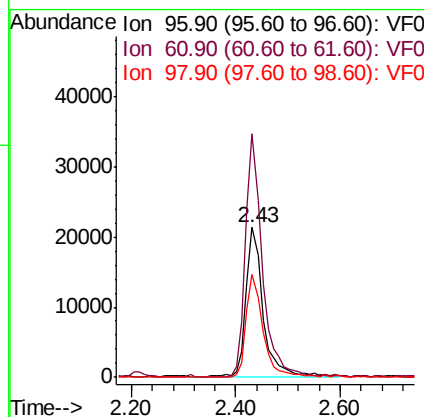
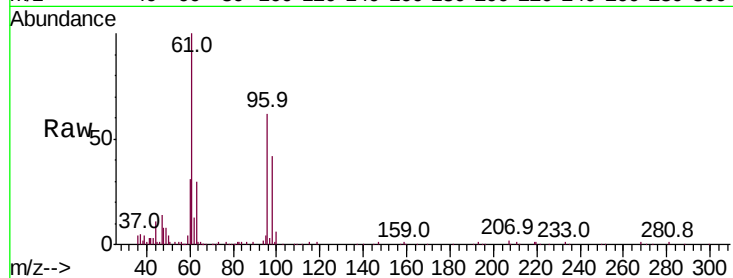
ClientSampleId :

VF0512SBS02

Tot Ion:	96	Resp:	47903
Ion	Ratio	Lower	Upper
96	100		
61	161.5	133.2	199.8
98	68.6	53.1	79.7

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#22

Diisopropyl ether

Concen: 21.296 ug/l

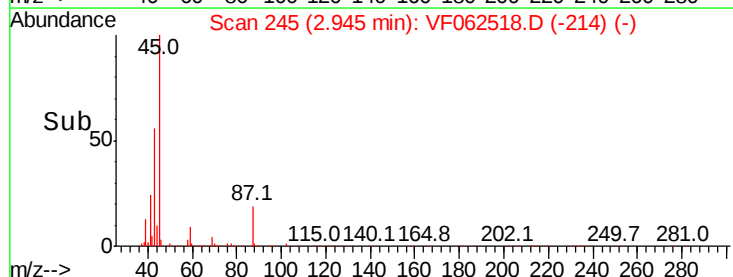
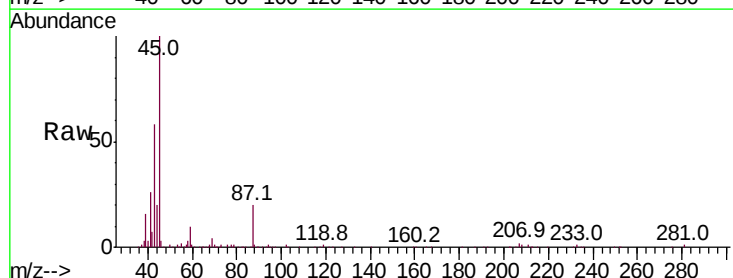
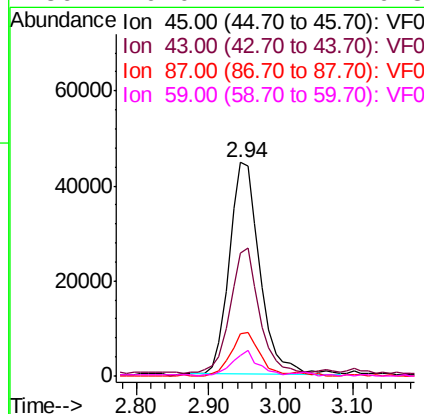
RT: 2.94 min Scan# 245

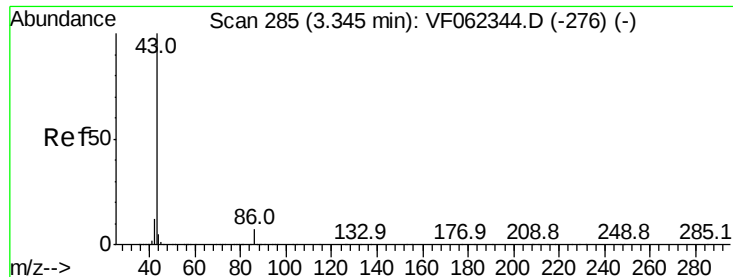
Delta R.T. 0.00 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion:	45	Resp:	131140
Ion	Ratio	Lower	Upper
45	100		
43	56.6	41.4	62.0
87	20.0	15.8	23.6
59	10.0	7.2	10.8





#23

Vinyl Acetate

Concen: 99.330 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 43 Resp: 272615

Ion Ratio Lower Upper

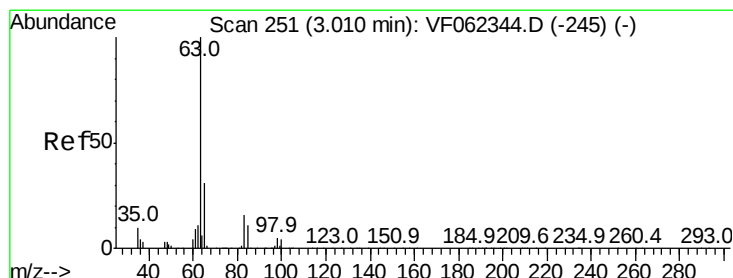
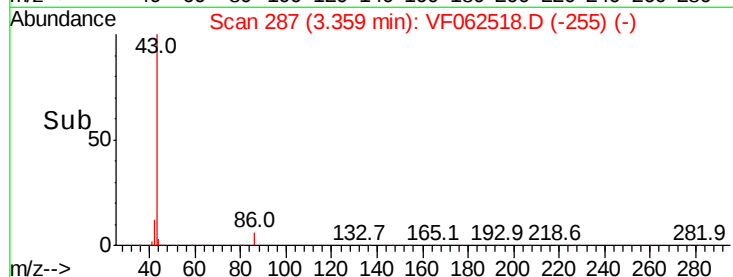
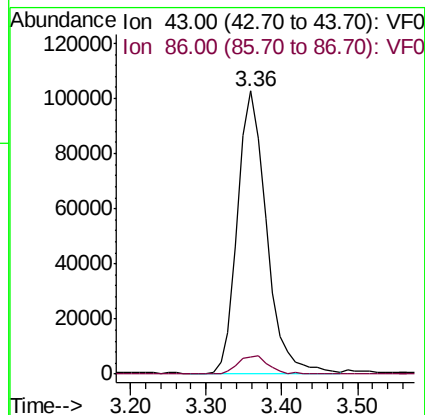
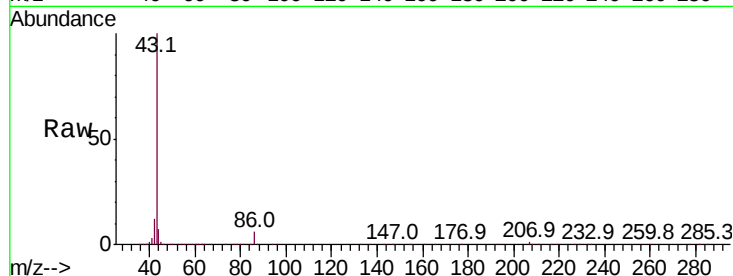
43 100

86 6.0 5.7 8.5

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#24

1,1-Dichloroethane

Concen: 24.458 ug/l

RT: 3.02 min Scan# 253

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

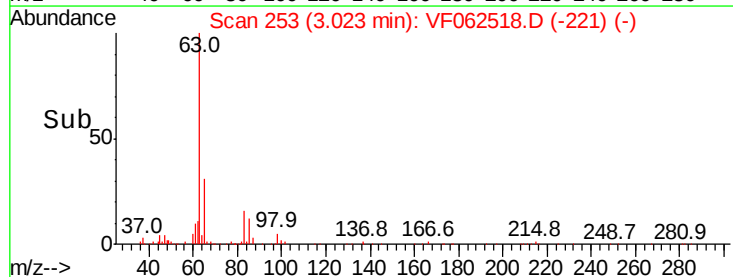
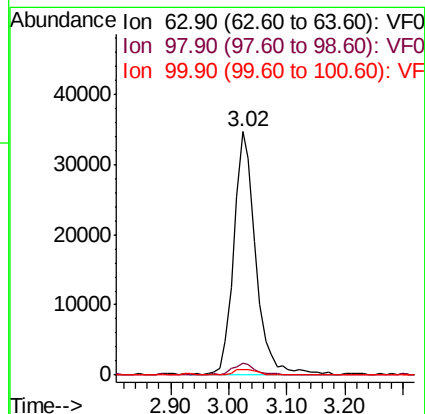
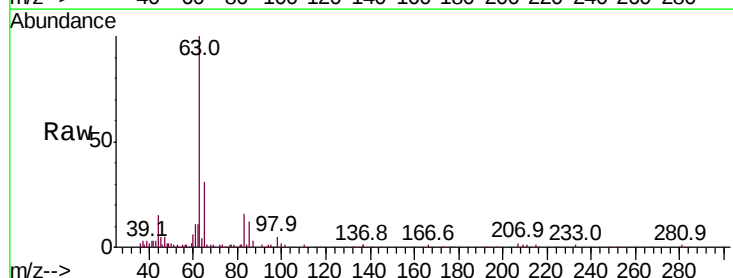
Tgt Ion: 63 Resp: 91027

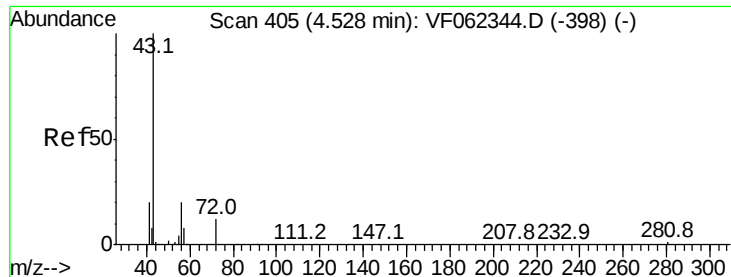
Ion Ratio Lower Upper

63 100

98 5.0 2.6 8.0

100 2.2 1.8 5.4





#25

2-Butanone

Concen: 92.232 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 43 Resp: 64445

Ion Ratio Lower Upper

43 100

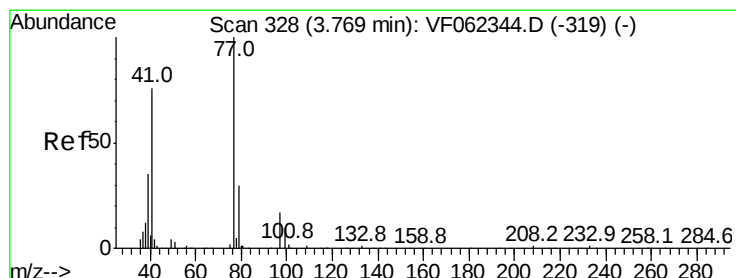
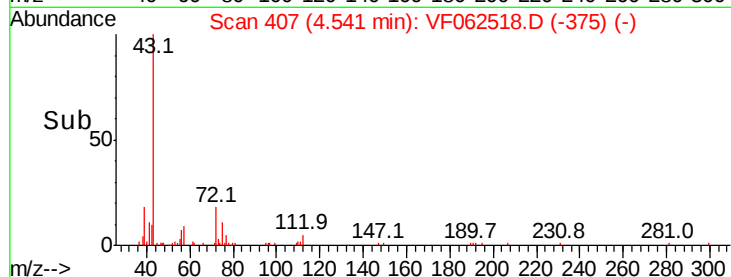
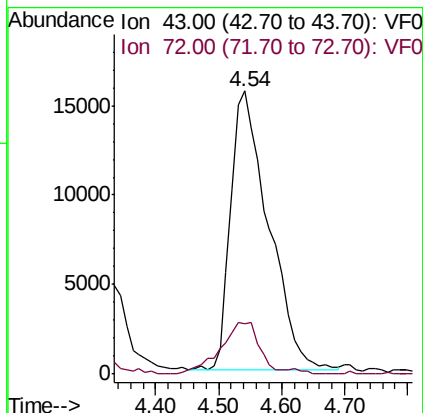
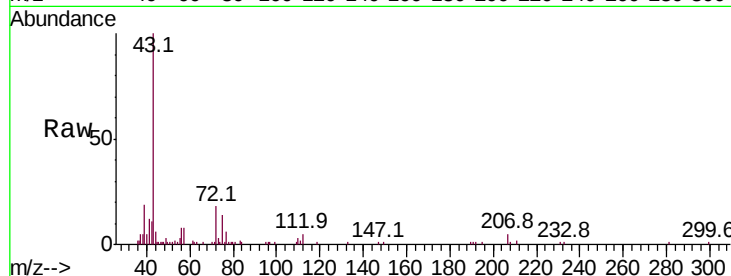
72 18.2 14.2 21.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 26.591 ug/l

RT: 3.79 min Scan# 331

Delta R.T. 0.02 min

Lab File: VF062518.D

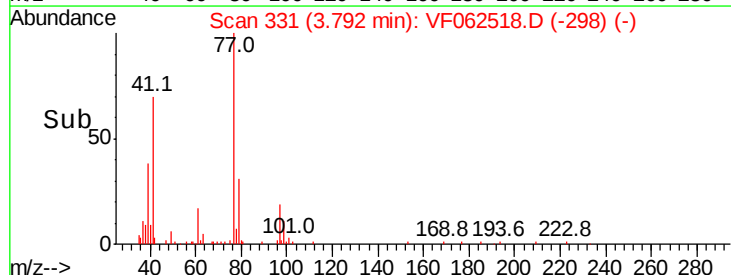
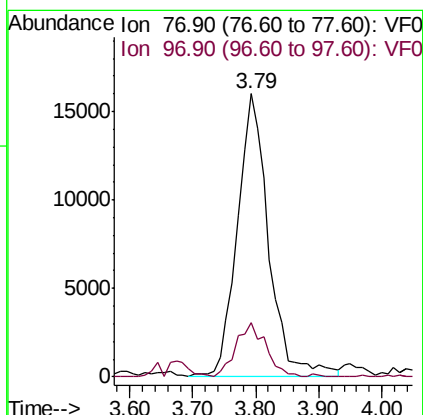
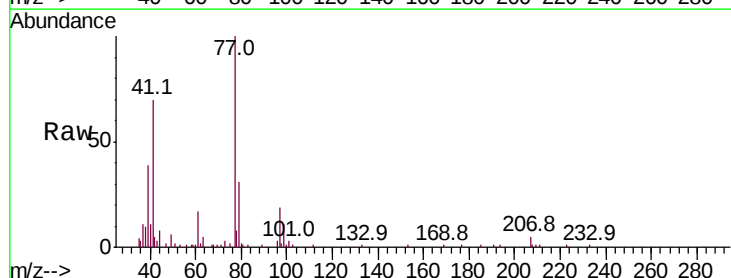
Acq: 12 May 2019 23:40

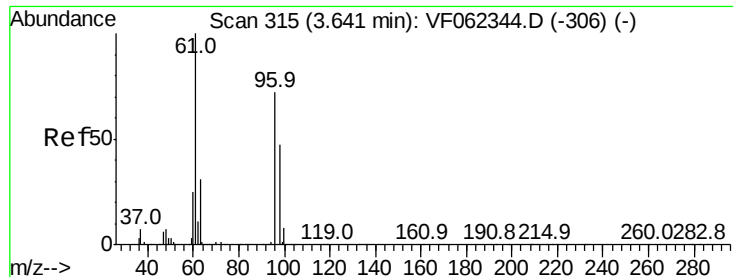
Tgt Ion: 77 Resp: 55266

Ion Ratio Lower Upper

77 100

97 18.2 9.5 28.5





#27

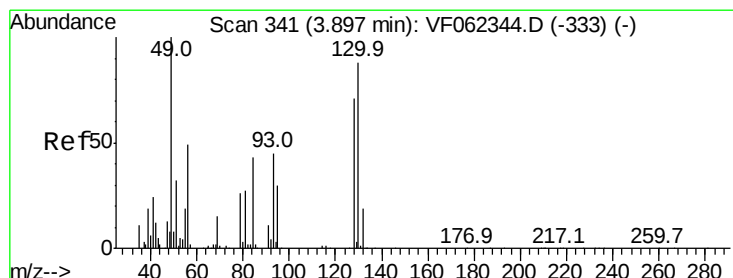
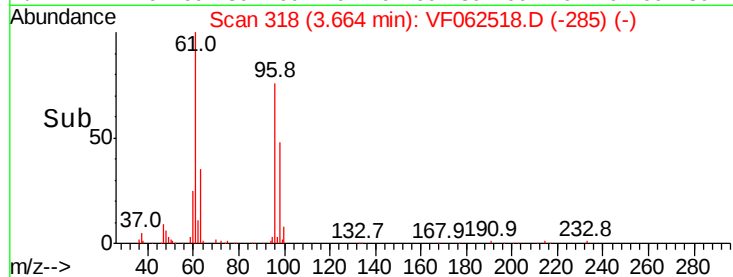
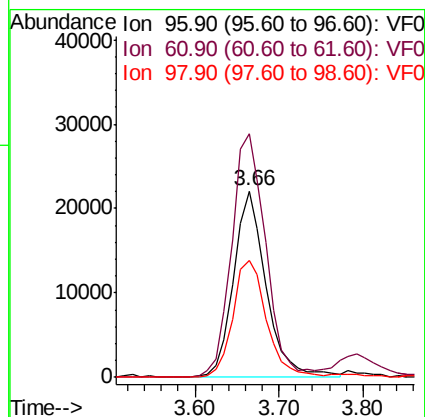
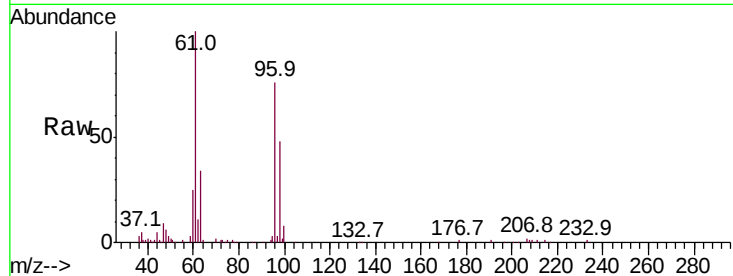
cis-1,2-Dichloroethene
Concen: 22.540 ug/l
RT: 3.66 min Scan# 318
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	59874		
61	136.3		0.0	263.0
98	64.5		0.0	130.8

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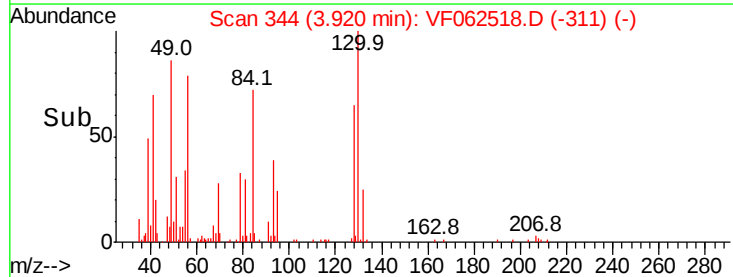
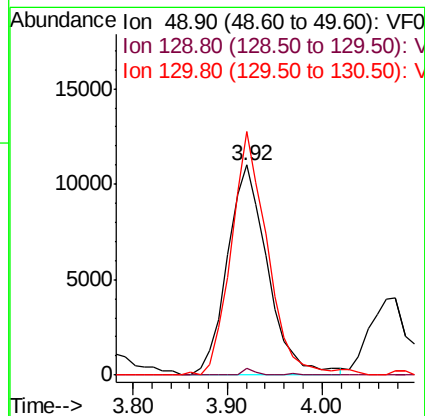
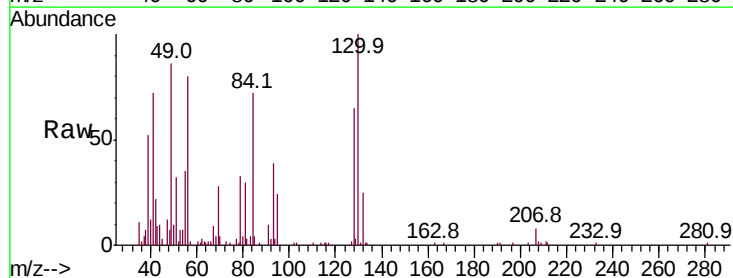
MMDadoda
5/13/2019 12:24:08 PM

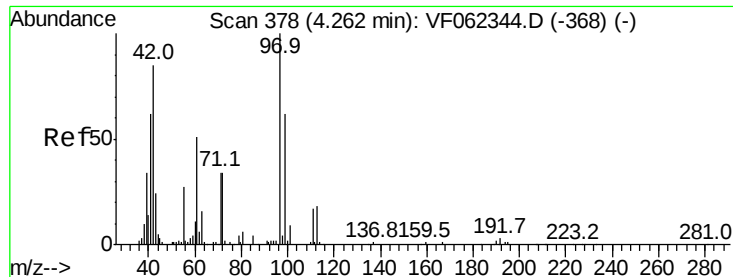


#28

Bromochloromethane
Concen: 19.287 ug/l
RT: 3.92 min Scan# 344
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	32554		
129	1.0		0.0	2.2
130	102.9		79.4	119.0





#29

Tetrahydrofuran

Concen: 99.859 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

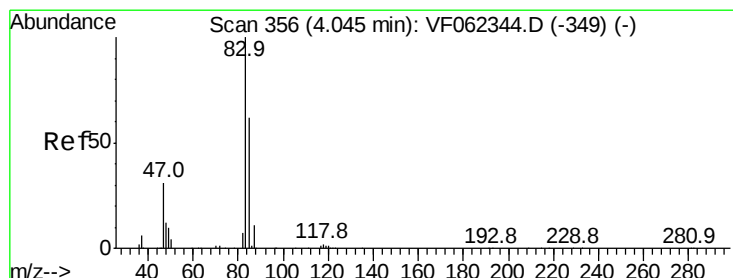
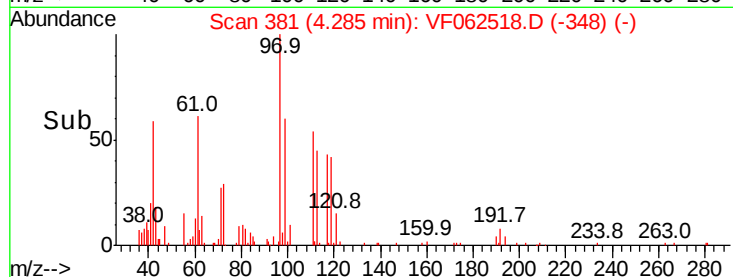
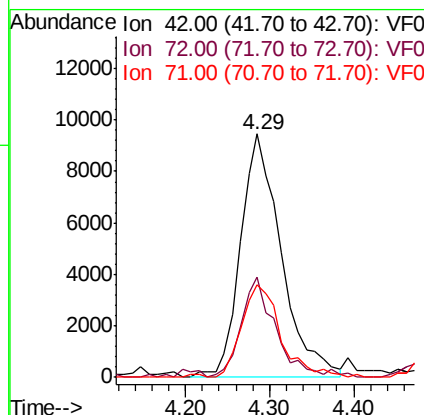
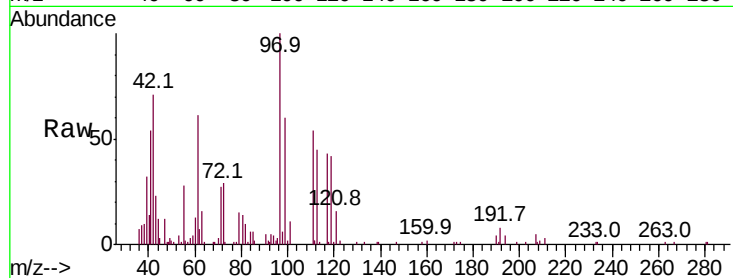
ClientSampleId :

VF0512SBS02

Tot Ion:	42	Resp:	32068
Ion	Ratio	Lower	Upper
42	100		
72	34.3	31.4	47.0
71	36.6	31.7	47.5

Manual Integrations
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#30

Chloroform

Concen: 24.340 ug/l

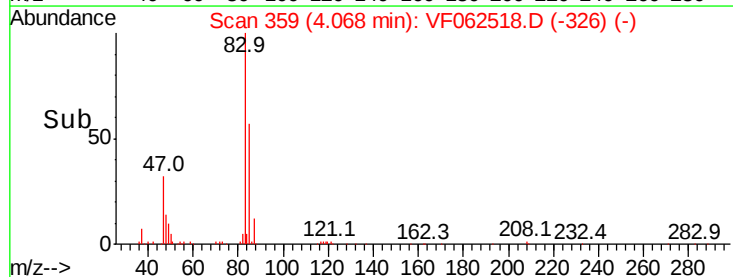
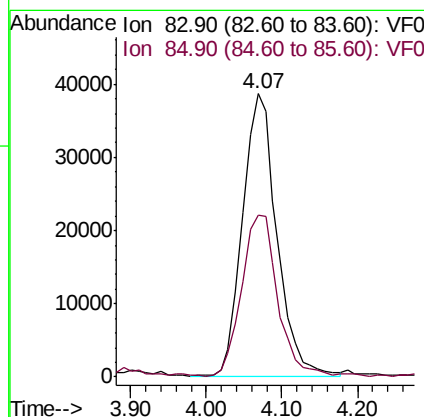
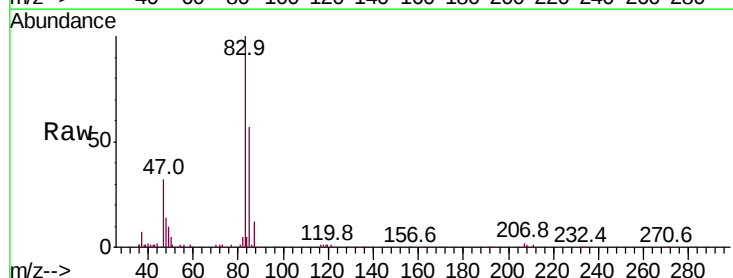
RT: 4.07 min Scan# 359

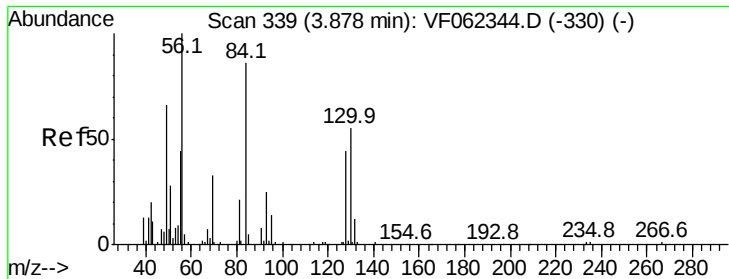
Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion:	83	Resp:	122383
Ion	Ratio	Lower	Upper
83	100		
85	56.6	49.6	74.4





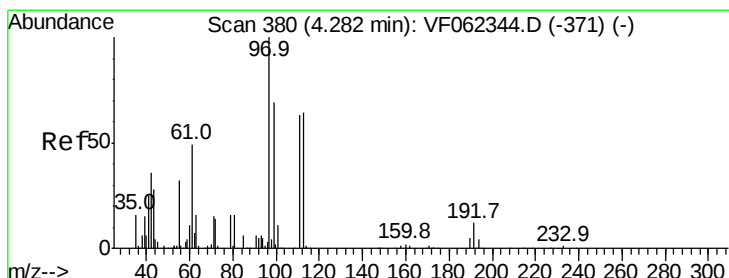
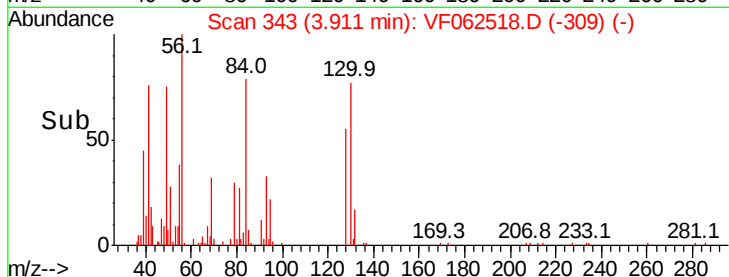
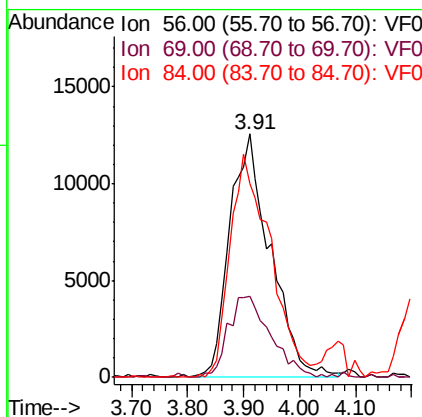
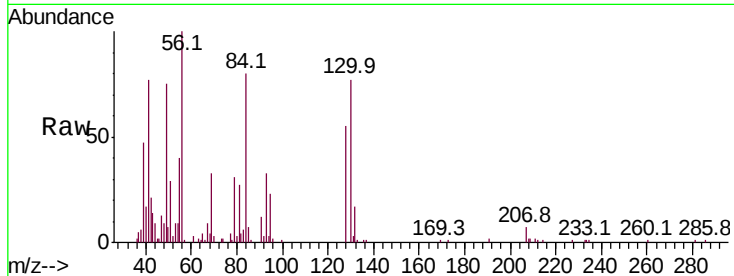
#31
Cyclohexane
Concen: 21.267 ug/l
RT: 3.91 min Scan# 343
Delta R.T. 0.03 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.2	26.4	39.6
84	79.8	69.0	103.6

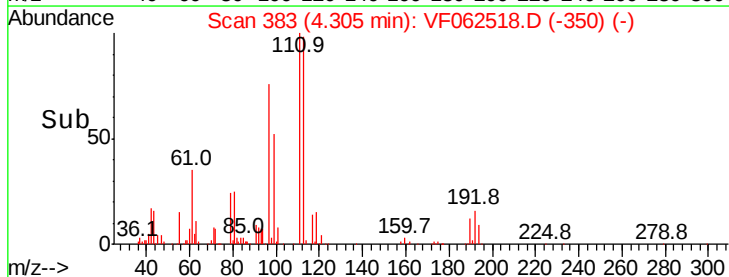
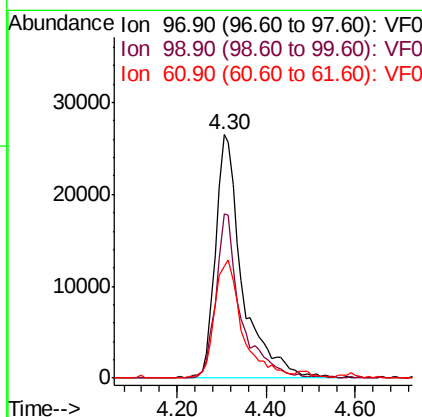
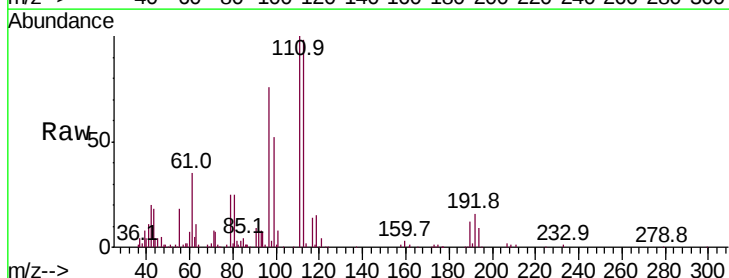
Manual Integrations
APPROVED

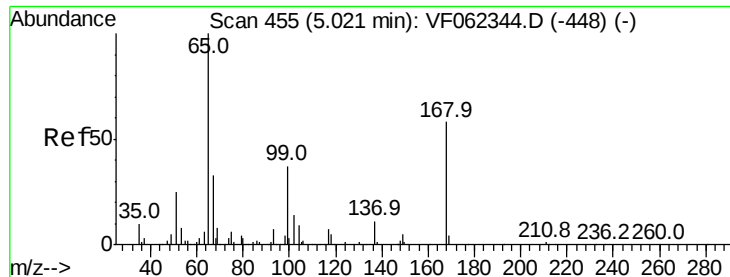
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#32
1,1,1-Trichloroethane
Concen: 25.651 ug/l
RT: 4.30 min Scan# 383
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.3	52.6	78.8
61	50.2	39.4	59.0





#33

1,2-Dichloroethane-d4

Concen: 55.718 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 65 Resp: 153186

Ion Ratio Lower Upper

65 100

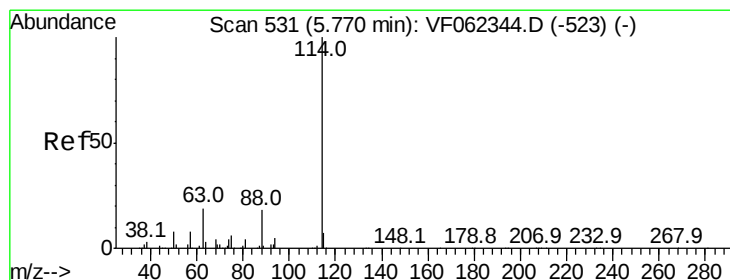
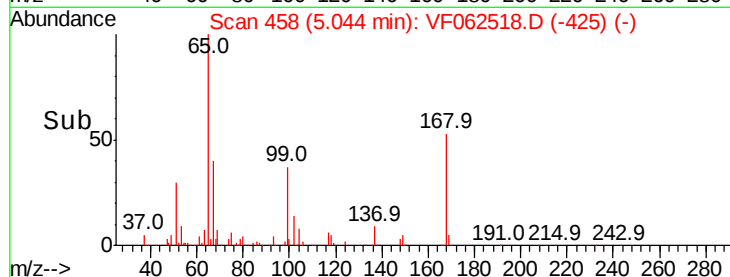
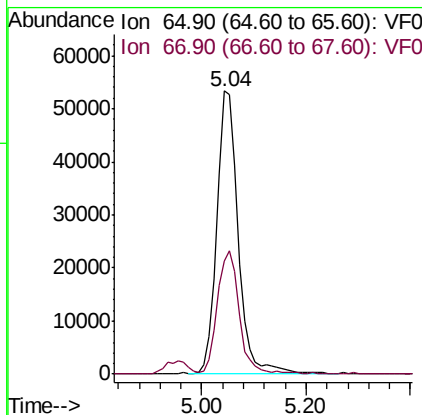
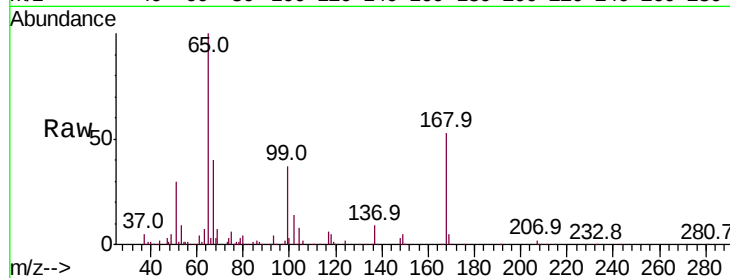
67 44.5 0.0 85.8

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

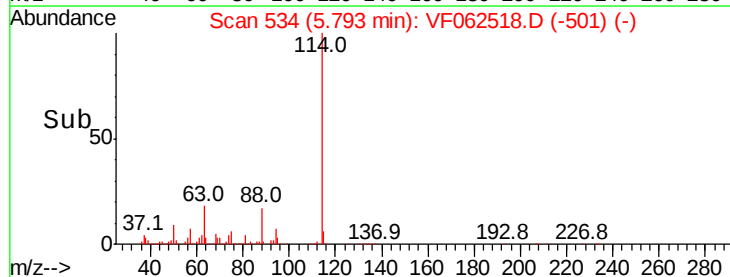
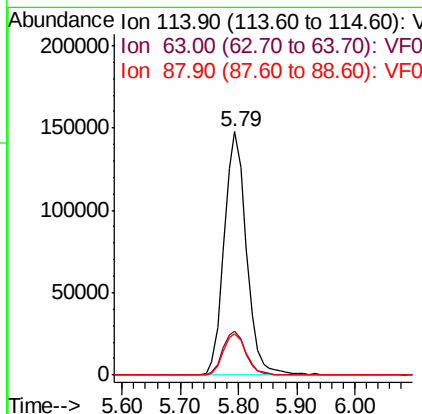
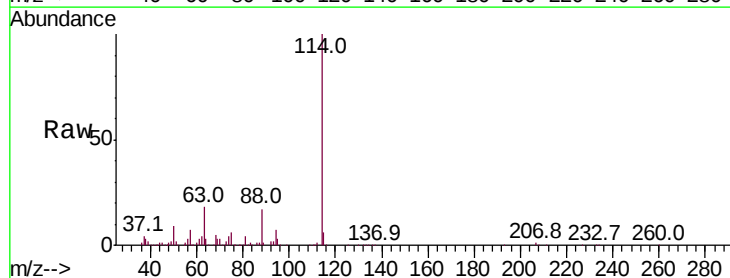
Tgt Ion: 114 Resp: 392808

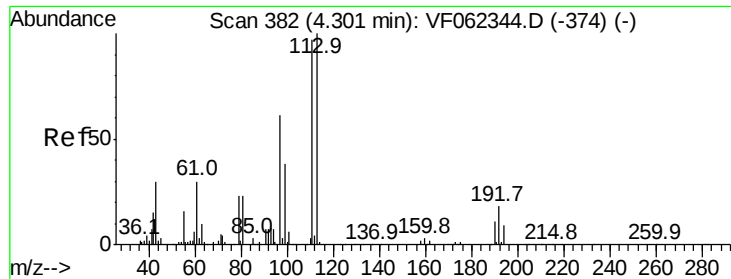
Ion Ratio Lower Upper

114 100

63 18.1 0.0 37.4

88 17.2 0.0 36.4





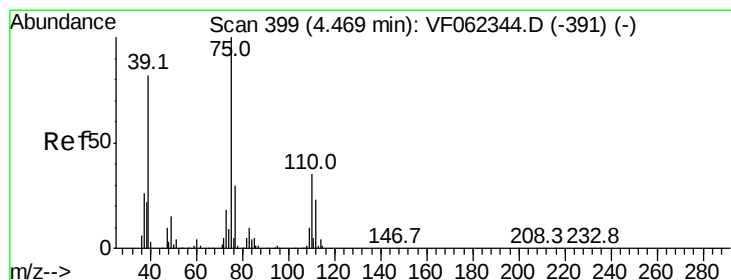
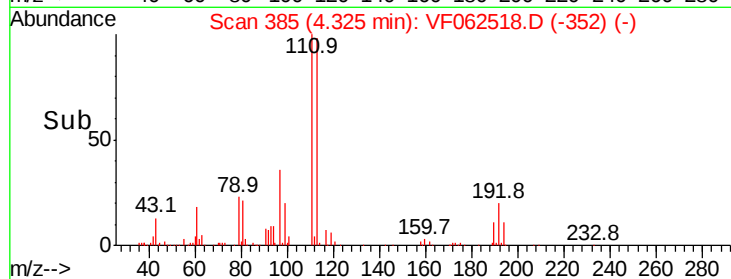
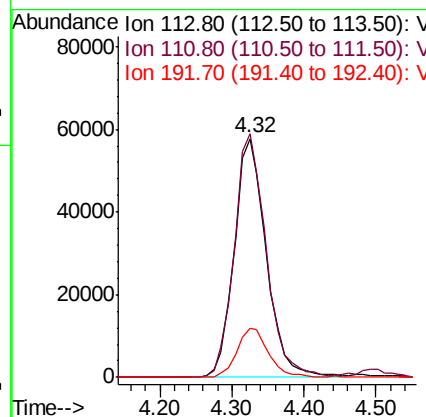
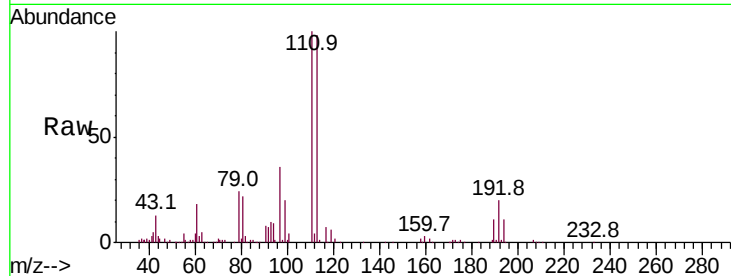
#35
 Dibromofluoromethane
 Concen: 57.135 ug/l
 RT: 4.32 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	178800		
111	101.8	79.4	119.0	
192	20.4	16.0	24.0	

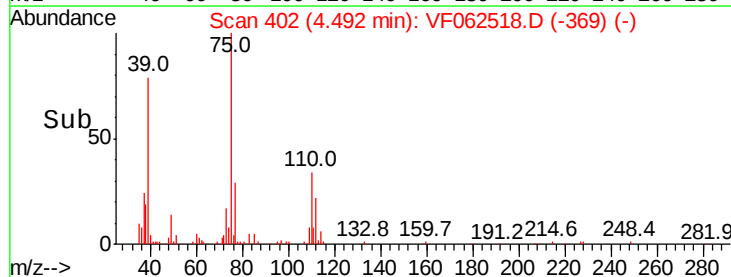
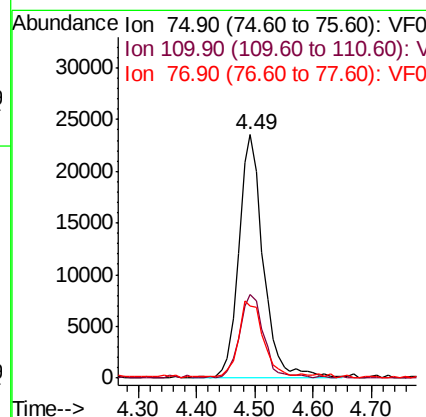
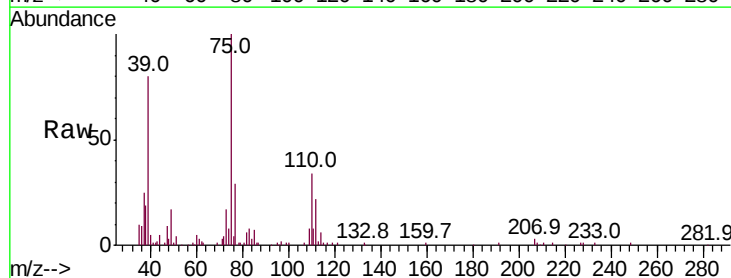
Manual Integrations
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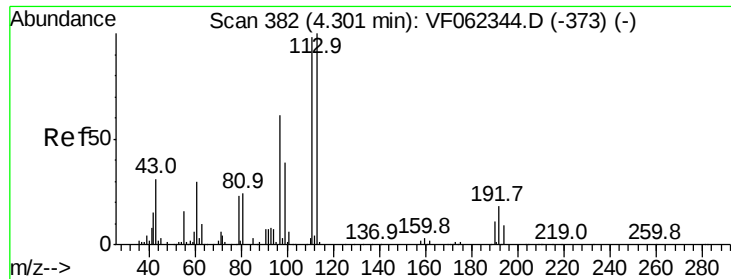
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#36
 1,1-Dichloropropene
 Concen: 20.438 ug/l
 RT: 4.49 min Scan# 402
 Delta R.T. 0.02 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	68965		
110	34.0	17.2	51.5	
77	33.2	25.2	37.8	





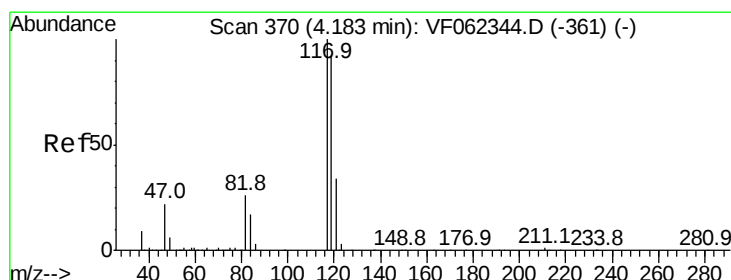
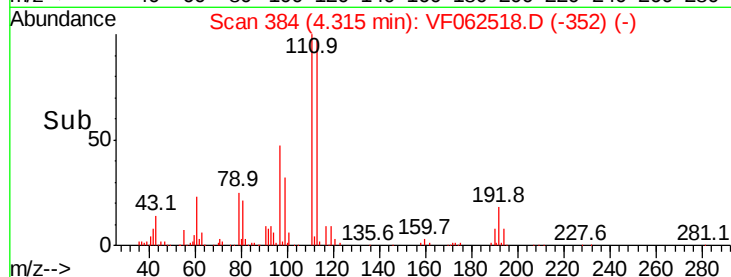
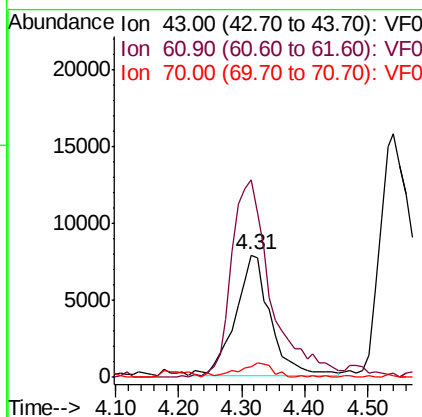
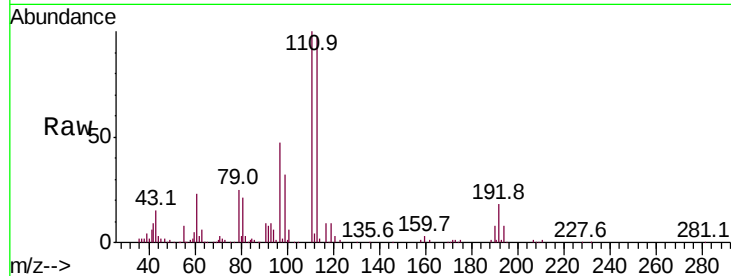
#37
Ethyl Acetate
Concen: 19.478 ug/l
RT: 4.31 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	43	Ratio	100	Resp	29820
Ion	43	Ratio	100	Lower	Upper
61	186.1	0.0	0.0	0.0	0.0
70	12.1	8.2	12.2		

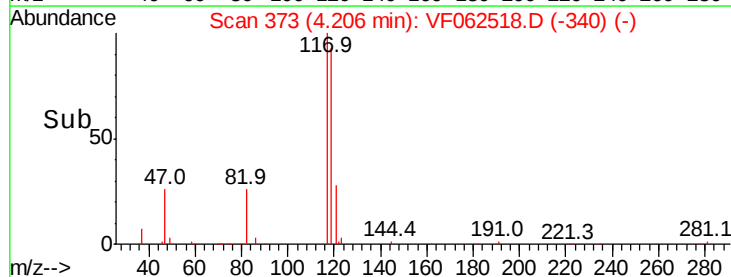
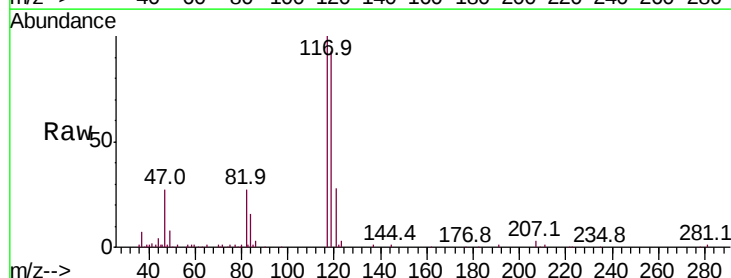
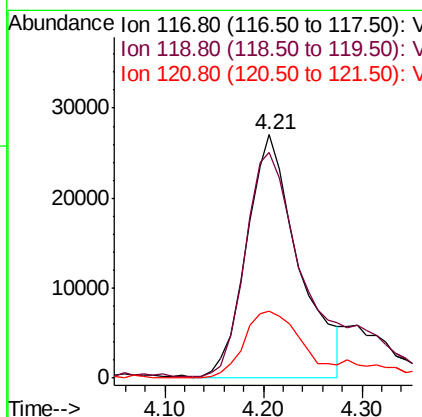
Manual Integrations
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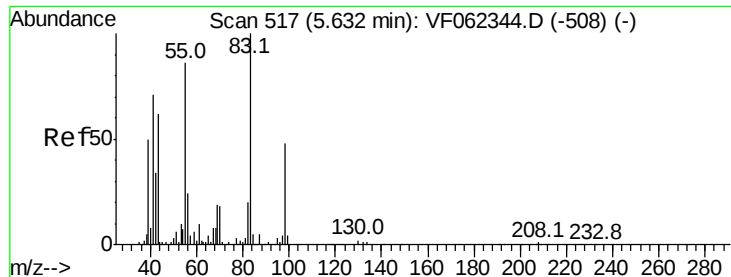
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#38
Carbon Tetrachloride
Concen: 27.099 ug/l m
RT: 4.21 min Scan# 373
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	117	Resp	99304
Ion	117	Ratio	100
119	92.7	73.4	110.2
121	27.7	27.4	41.0





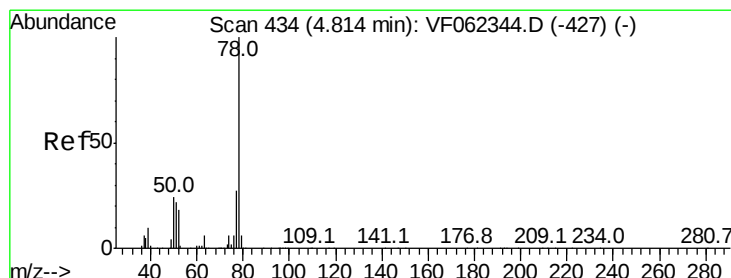
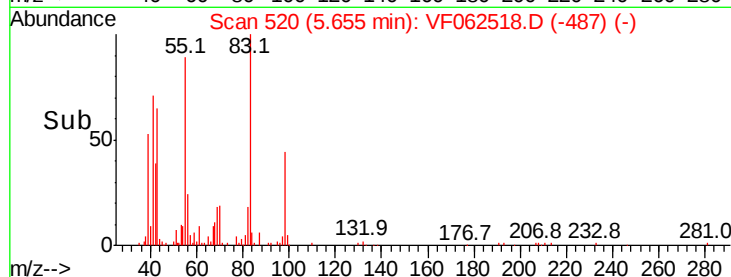
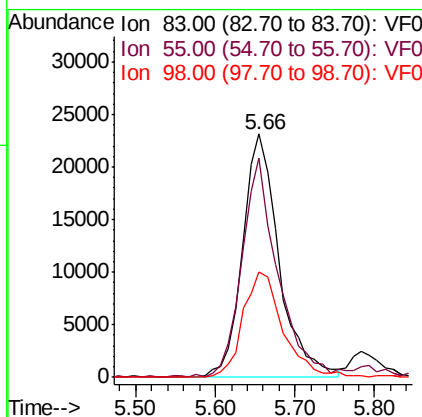
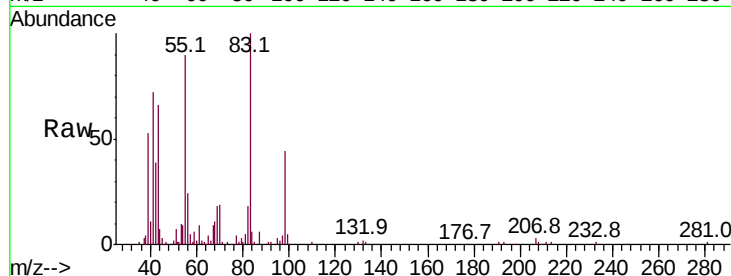
#39
Methvlcvclohexane
Concen: 21.640 ug/l
RT: 5.66 min Scan# 520
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	89.9	69.0	103.6
98	43.5	38.6	58.0

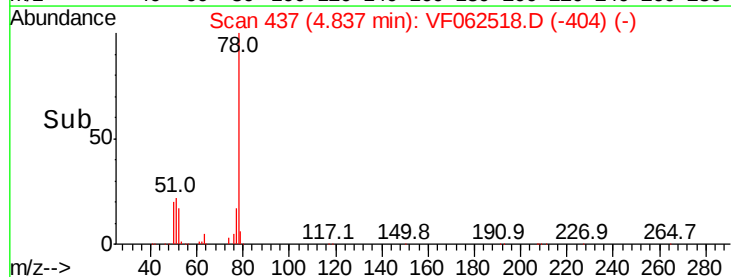
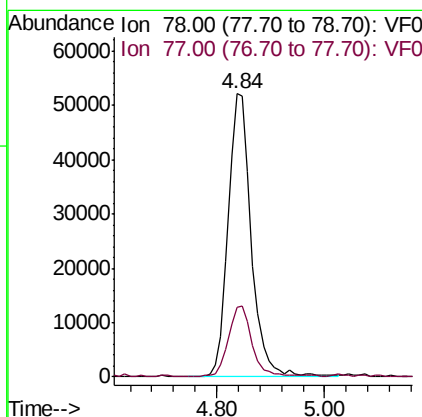
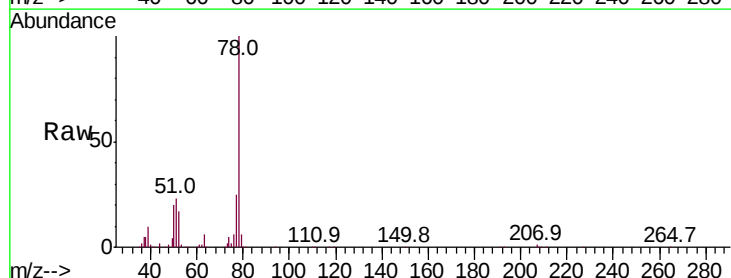
Manual Integrations
APPROVED

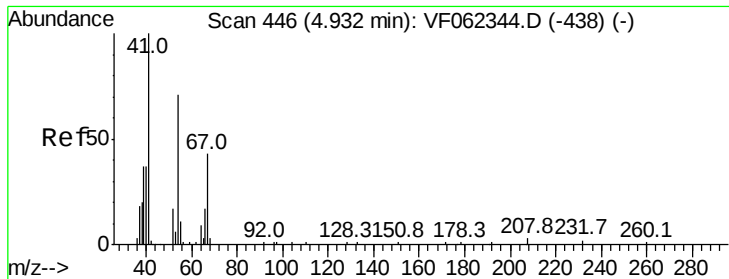
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#40
Benzene
Concen: 20.922 ug/l
RT: 4.84 min Scan# 437
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	21.6	32.4





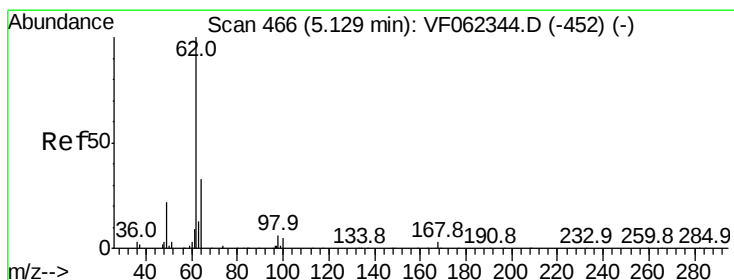
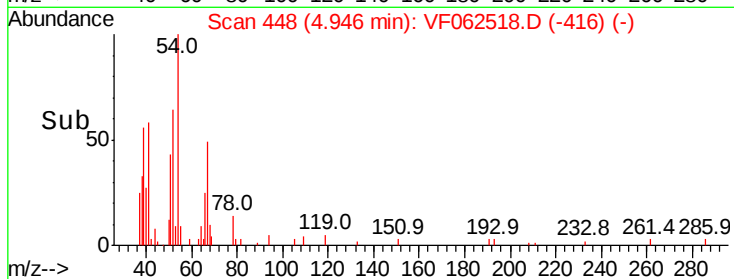
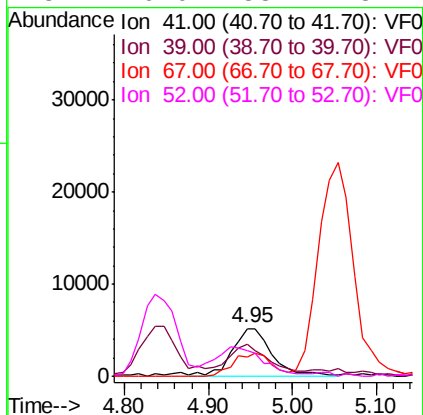
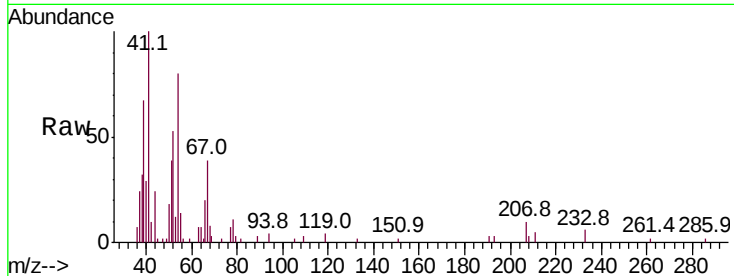
#41
Methacrylonitrile
Concen: 21.078 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.0	54.3	81.5#
67	45.4	37.8	56.8
52	0.0	58.2	87.4#

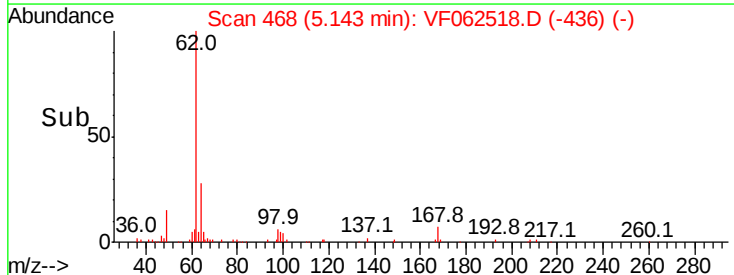
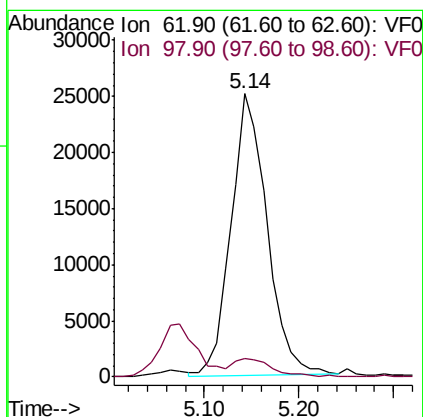
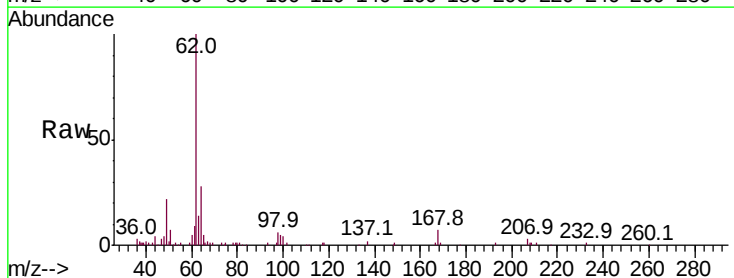
Manual Integrations
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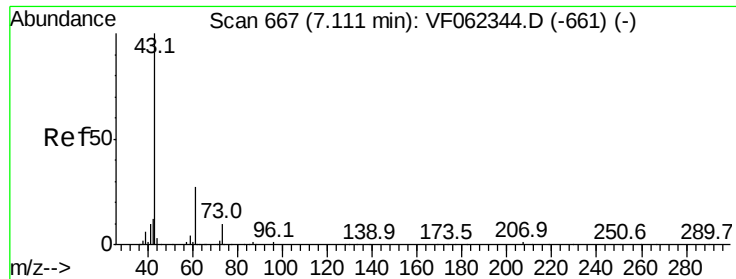
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#42
1,2-Dichloroethane
Concen: 21.346 ug/l
RT: 5.14 min Scan# 468
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.8	0.0	12.4





#43

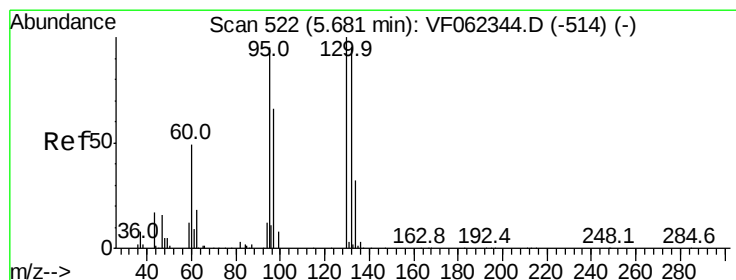
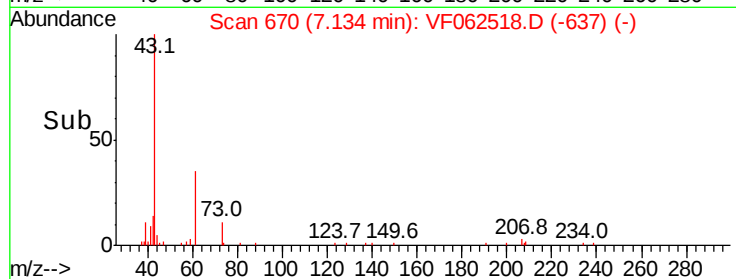
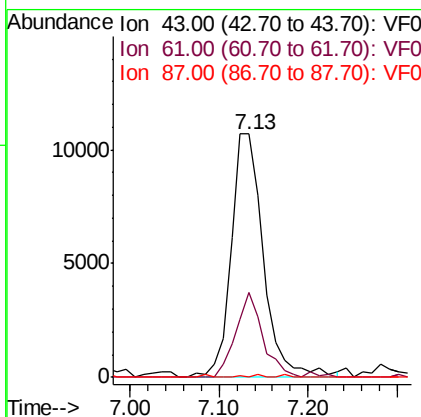
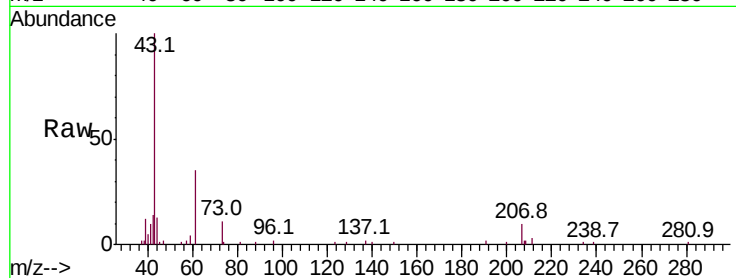
Isopropyl Acetate
 Concen: 17.695 ug/l
 RT: 7.13 min Scan# 670
 Delta R.T. 0.02 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.0	22.8	34.2
87	0.4	0.6	1.0

Manual Integrations
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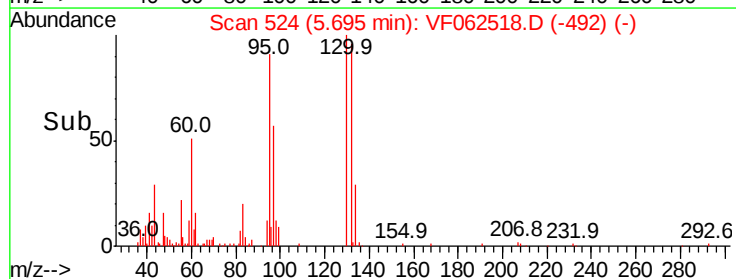
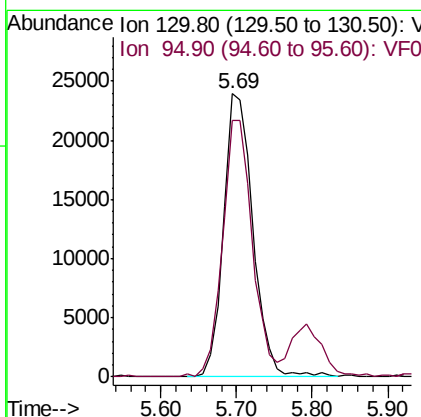
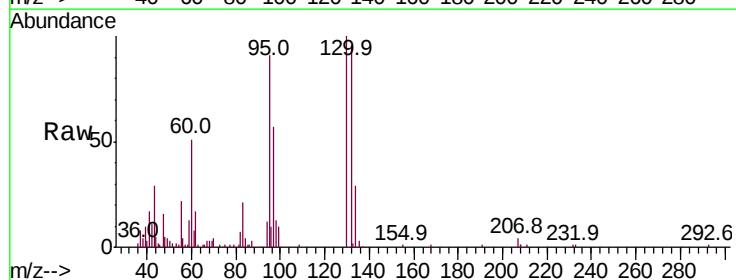
MMDadoda
 5/13/2019 12:24:08 PM

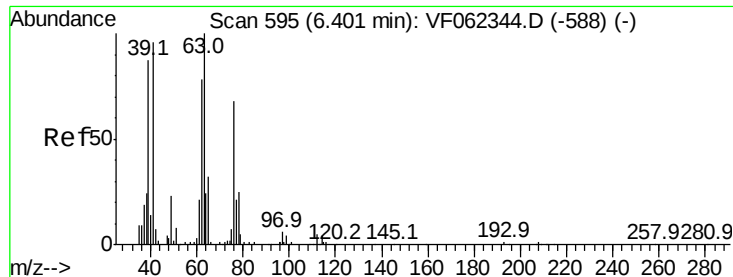


#44

Trichloroethene
 Concen: 23.475 ug/l
 RT: 5.69 min Scan# 524
 Delta R.T. 0.01 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.7	0.0	189.0





#45

1,2-Dichloropropane

Concen: 23.835 ug/l

RT: 6.42 min Scan# 598

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 63 Resp: 40115

Ion Ratio Lower Upper

63 100

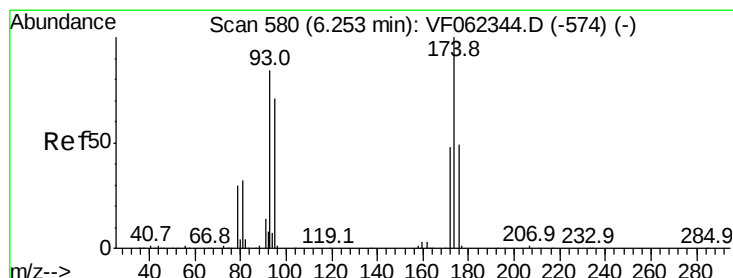
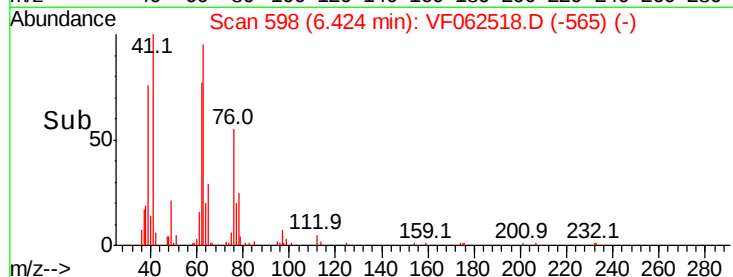
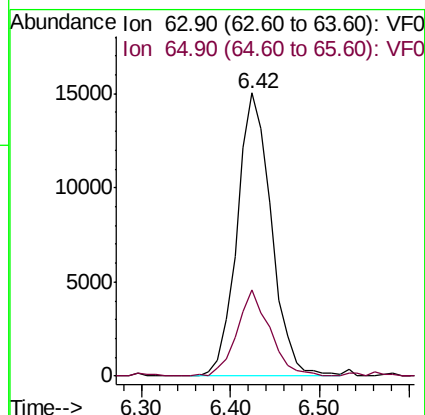
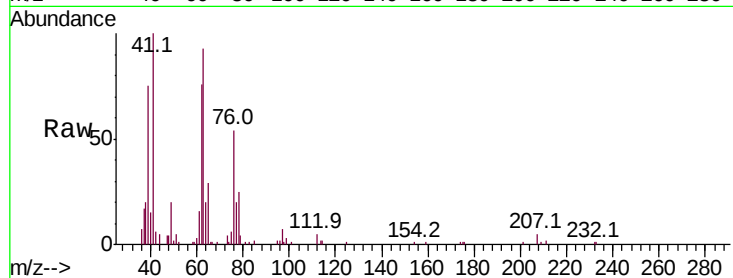
65 30.7 25.6 38.4

Manual Integrations

APPROVED

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#46

Dibromomethane

Concen: 23.200 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

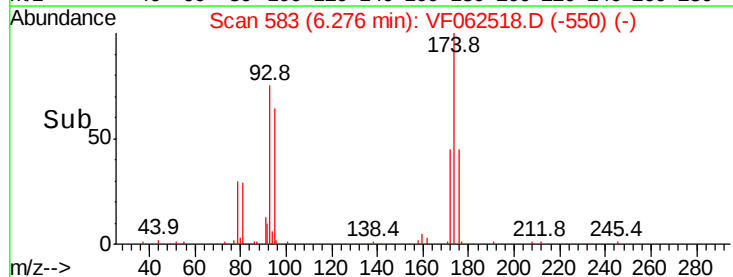
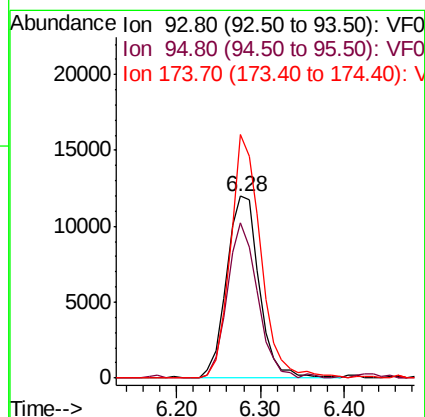
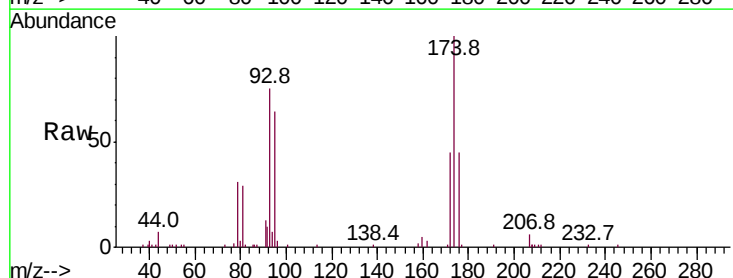
Tgt Ion: 93 Resp: 32375

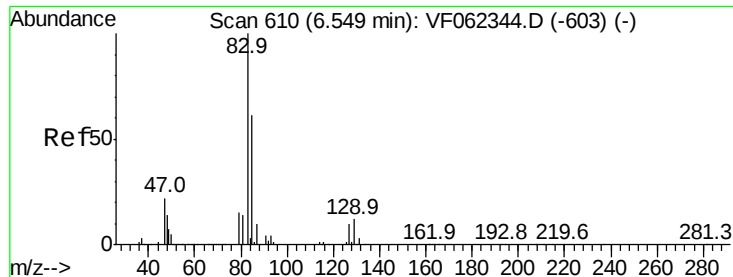
Ion Ratio Lower Upper

93 100

95 78.7 68.4 102.6

174 124.6 99.6 149.4





#47

Bromodichloromethane

Concen: 23.222 ug/l

RT: 6.57 min Scan# 613

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

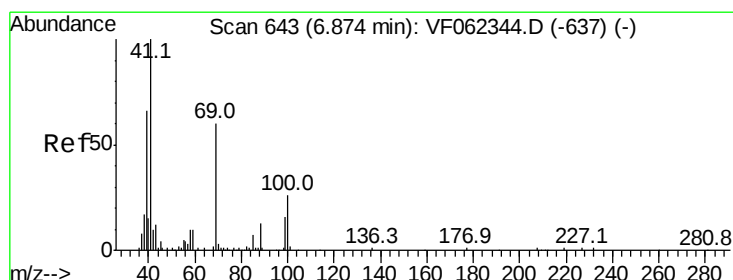
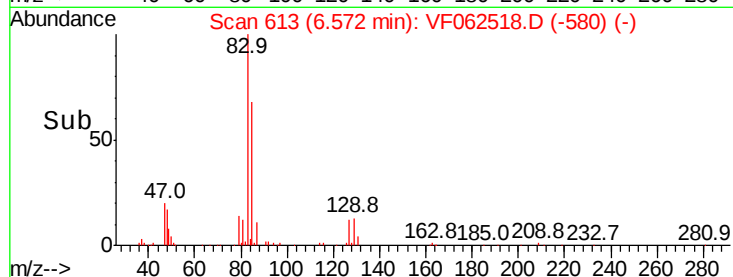
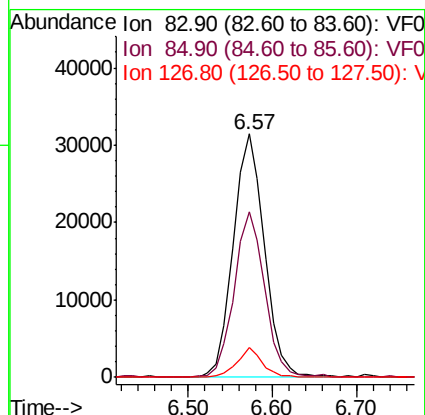
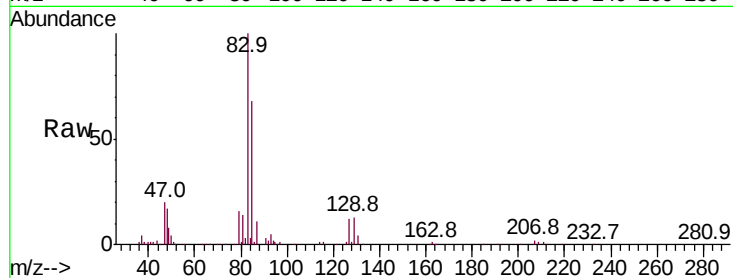
ClientSampleId :

VF0512SBS02

Tot Ion:	83	Resp:	81019
Ion Ratio	Lower	Upper	
83	100		
85	68.3	49.1	73.7
127	12.2	7.8	11.8#

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.650 ug/l

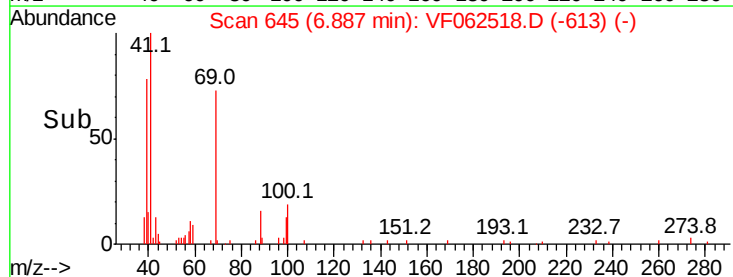
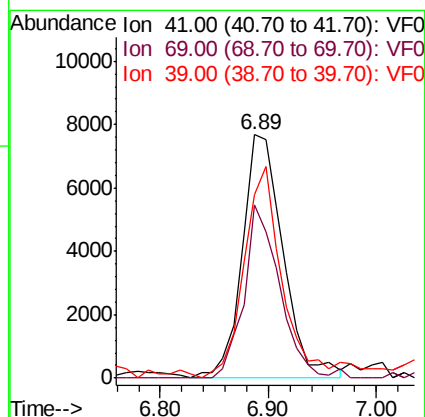
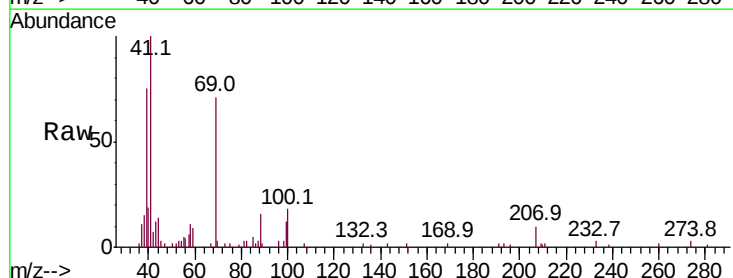
RT: 6.89 min Scan# 645

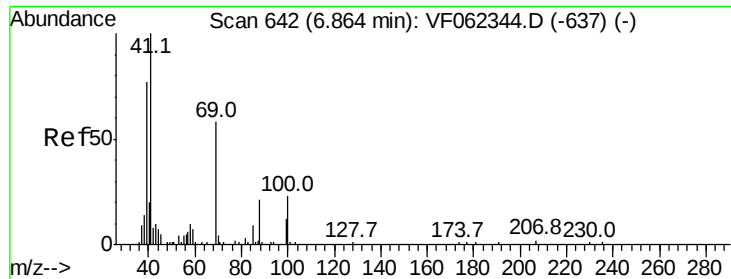
Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion:	41	Resp:	20229
Ion Ratio	Lower	Upper	
41	100		
69	62.4	48.6	72.8
39	79.7	56.1	84.1





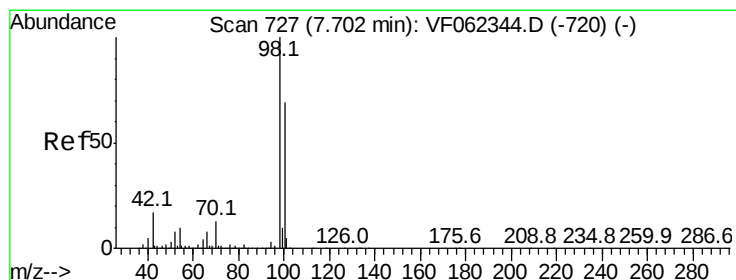
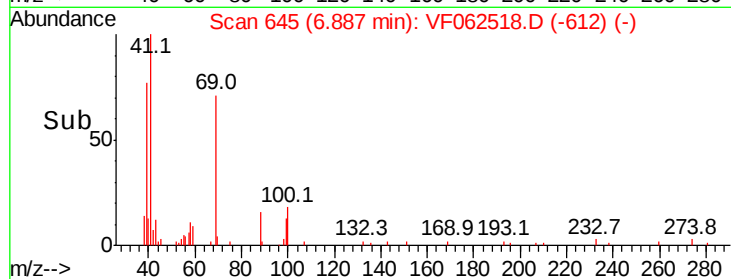
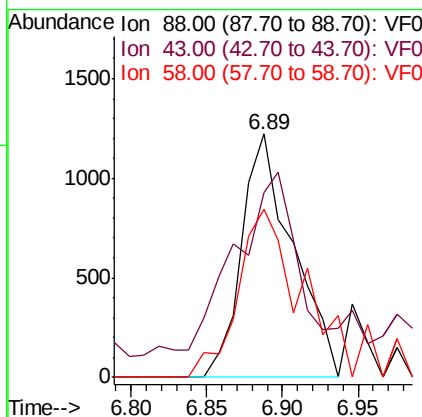
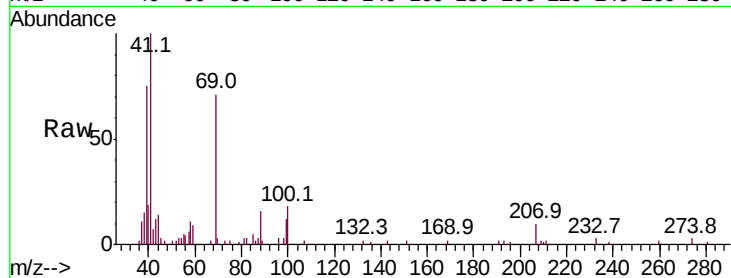
#49
1,4-Dioxane
Concen: 247.350 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	93.4	55.6	83.4#
58	86.0	52.8	79.2#

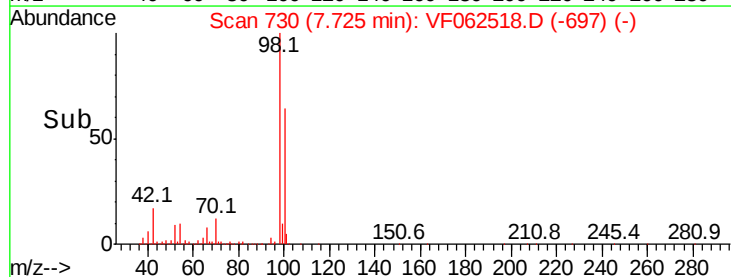
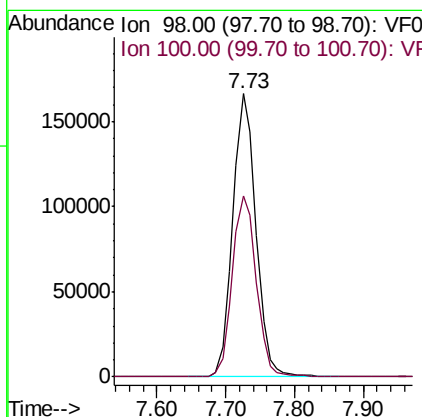
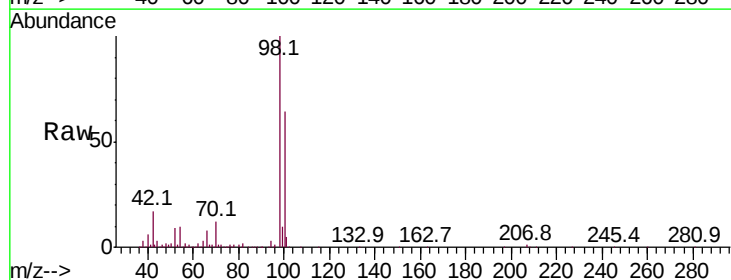
Manual Integrations
APPROVED

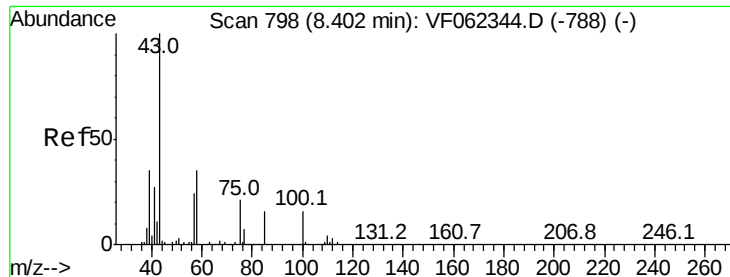
MMDadoda
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#50
Toluene-d8
Concen: 51.359 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 103.709 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 43 Resp: 120614

Ion Ratio Lower Upper

43 100

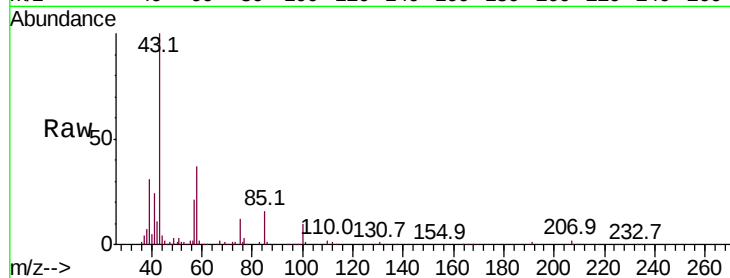
58 34.3 27.8 41.6

Manual Integrations

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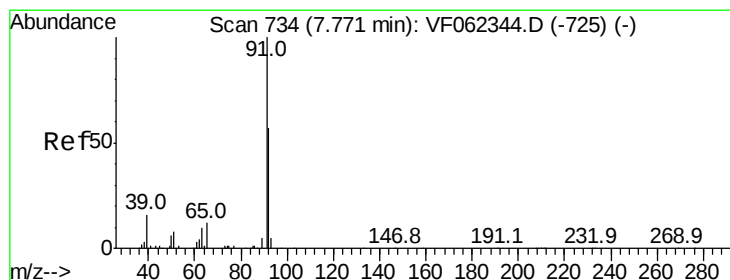
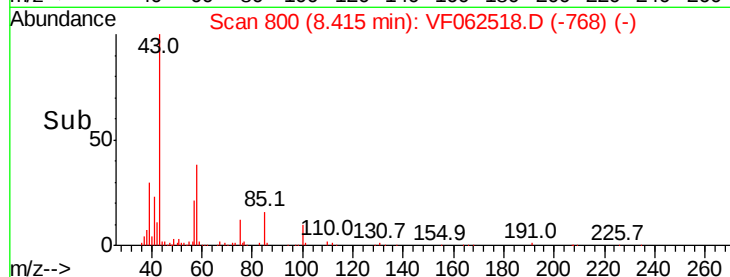
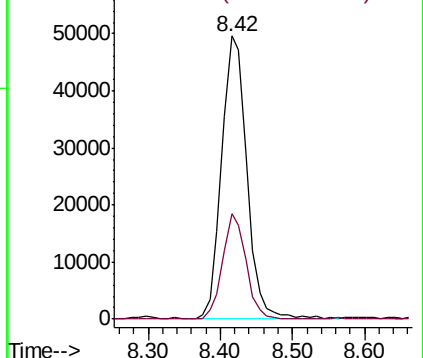
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.779 ug/l

RT: 7.79 min Scan# 737

Delta R.T. 0.02 min

Lab File: VF062518.D

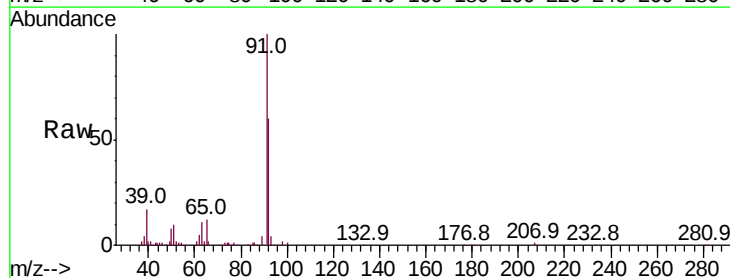
Acq: 12 May 2019 23:40

Tgt Ion: 92 Resp: 99835

Ion Ratio Lower Upper

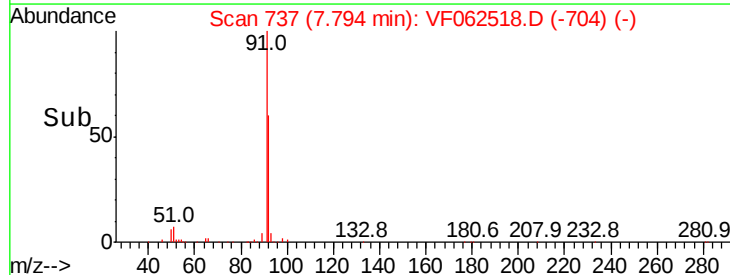
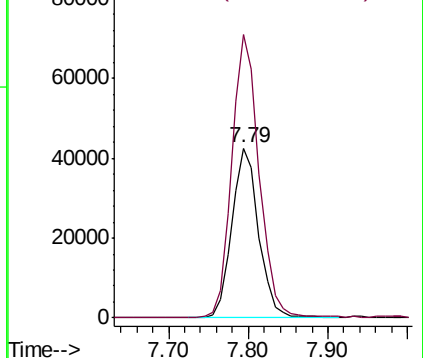
92 100

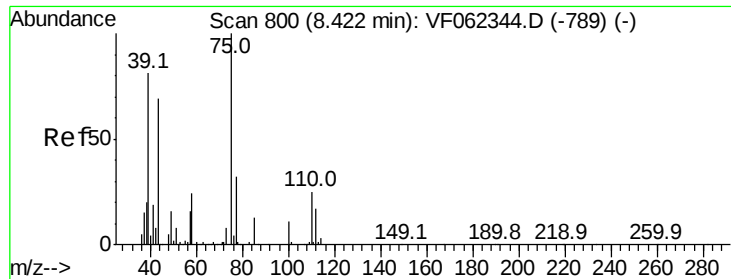
91 170.1 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.612 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 75 Resp: 57029

Ion Ratio Lower Upper

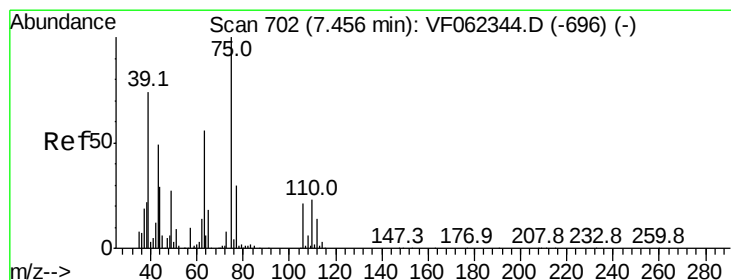
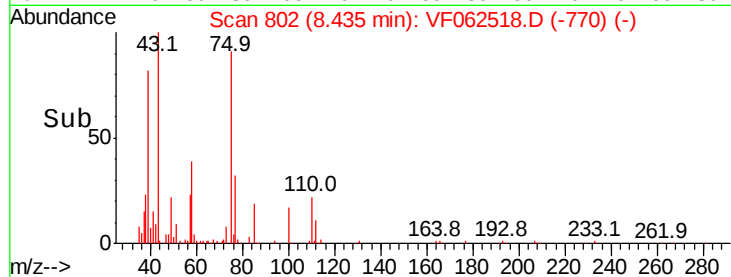
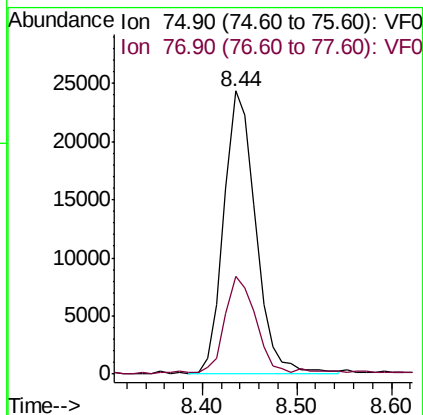
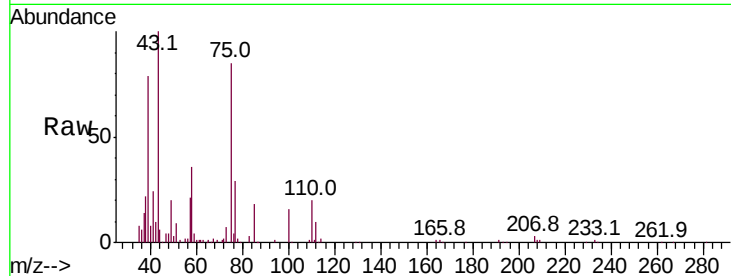
75 100

77 34.0 25.4 38.0

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 22.367 ug/l

RT: 7.48 min Scan# 705

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

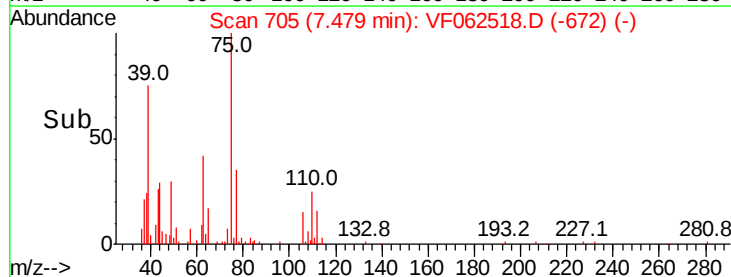
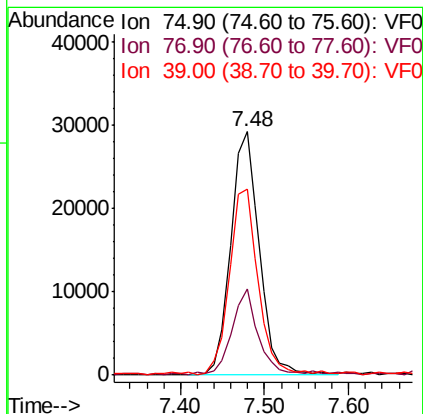
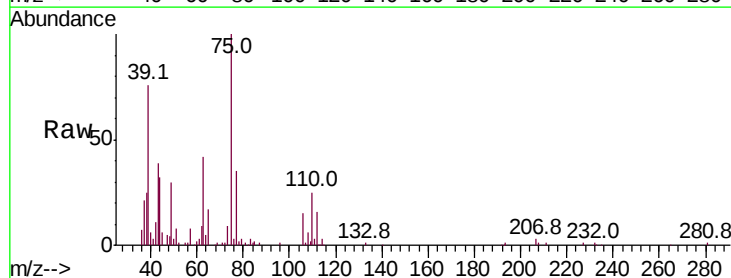
Tgt Ion: 75 Resp: 68688

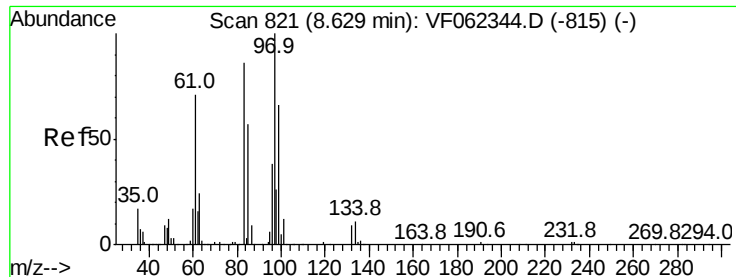
Ion Ratio Lower Upper

75 100

77 35.1 24.0 36.0

39 75.6 58.7 88.1





#55

1,1,2-Trichloroethane

Concen: 22.732 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

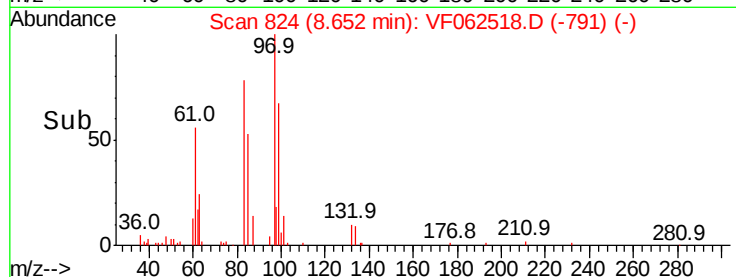
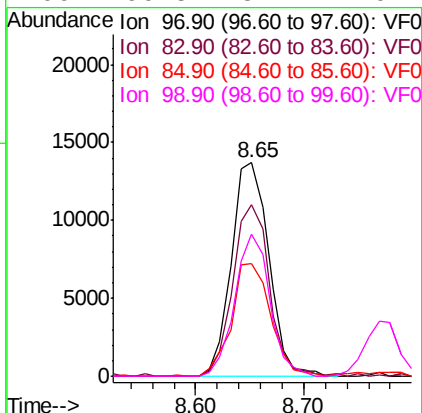
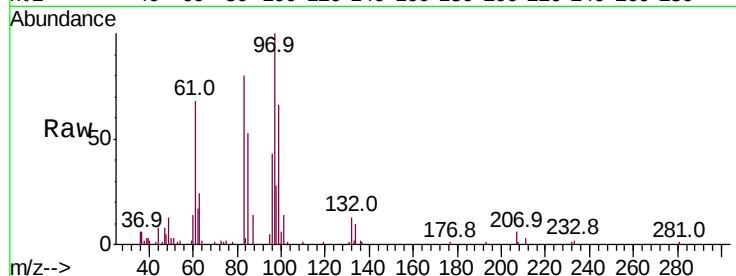
ClientSampleId :

VF0512SBS02

Tot Ion	Ratio	Lower	Upper
97	100		
83	80.3	68.5	102.7
85	52.8	45.4	68.2
99	66.5	52.7	79.1

Manual Integrations
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#56

Ethyl methacrylate

Concen: 18.721 ug/l

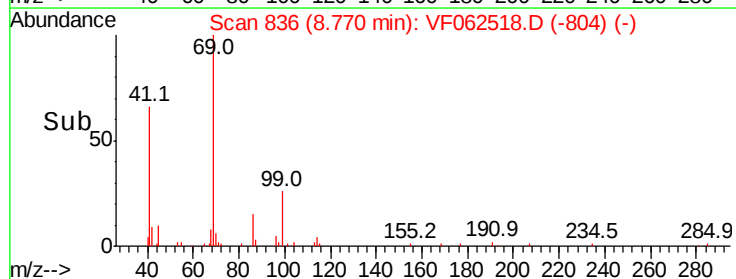
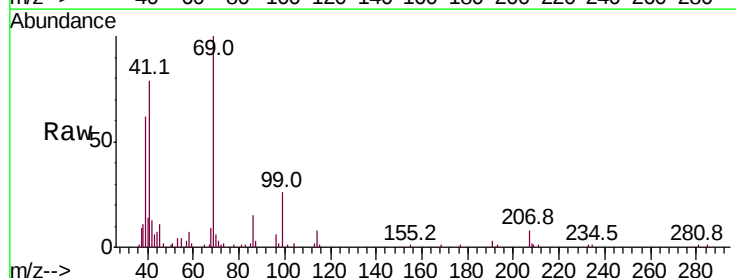
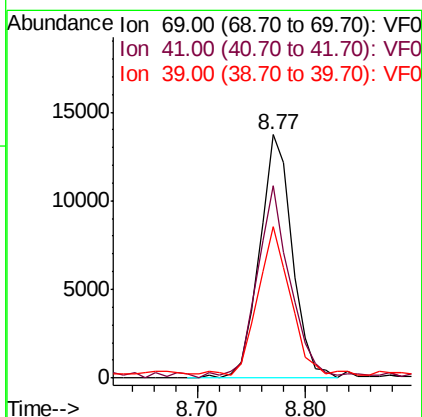
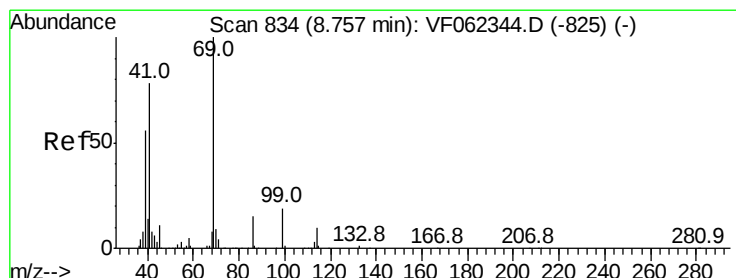
RT: 8.77 min Scan# 836

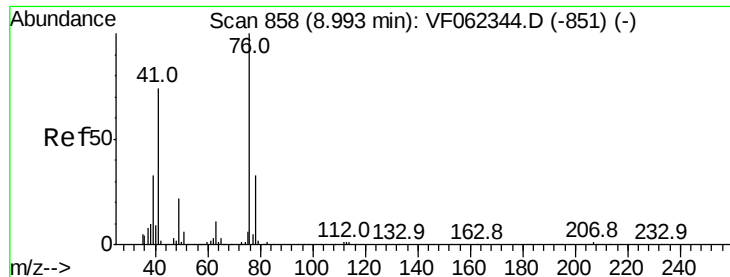
Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
69	100		
41	81.6	66.3	99.5
39	61.1	50.1	75.1





#57

1,3-Dichloropropane

Concen: 22.381 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 76 Resp: 49194

Ion Ratio Lower Upper

76 100

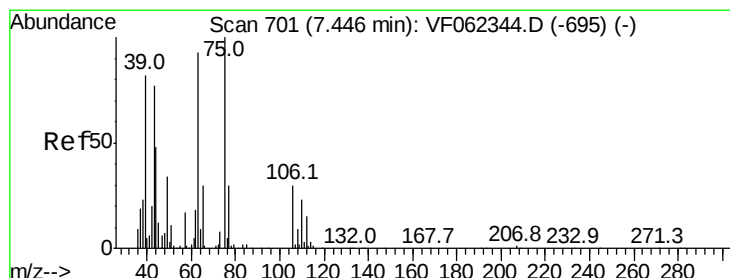
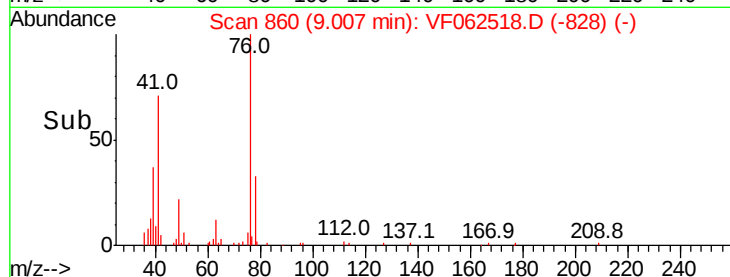
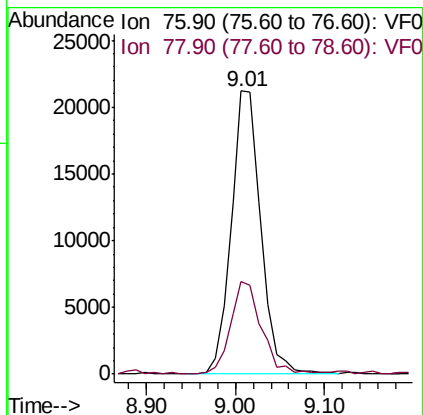
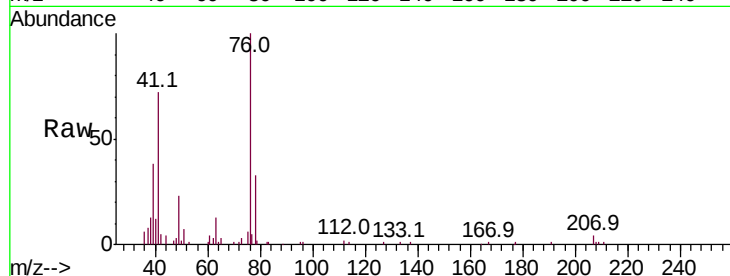
78 34.6 26.4 39.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 93.870 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF062518.D

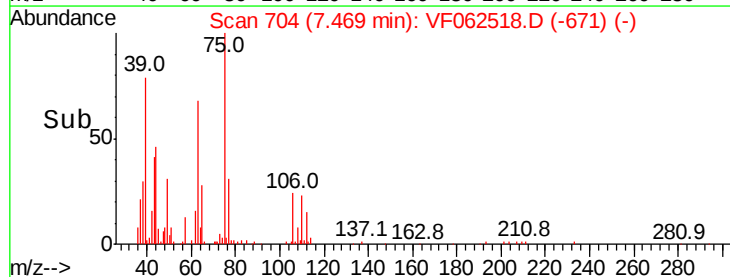
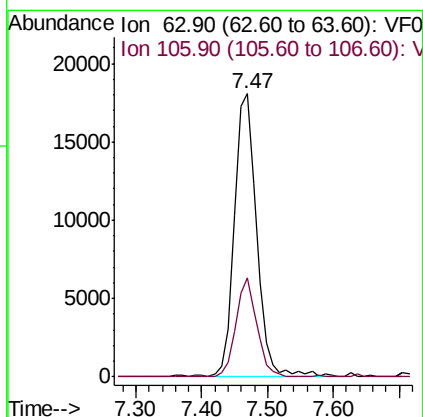
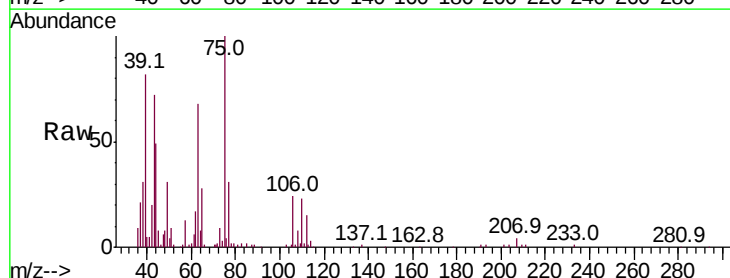
Acq: 12 May 2019 23:40

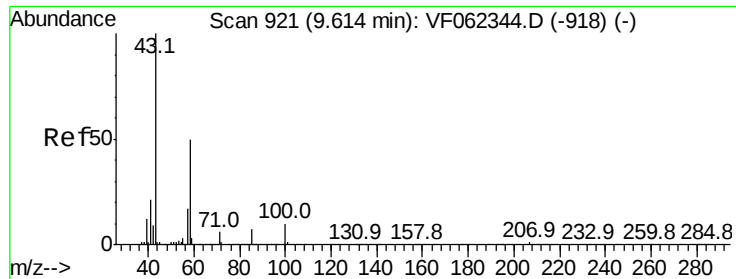
Tgt Ion: 63 Resp: 43351

Ion Ratio Lower Upper

63 100

106 32.3 25.8 38.8





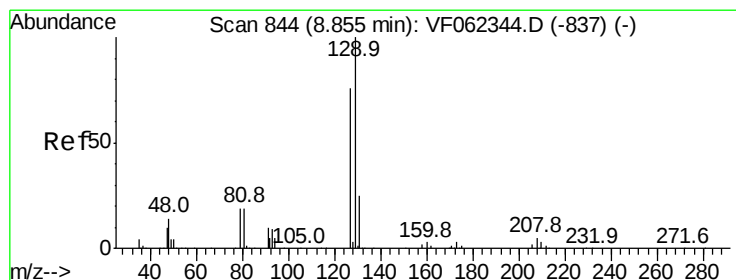
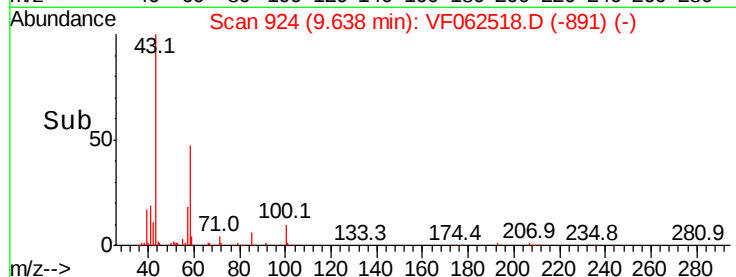
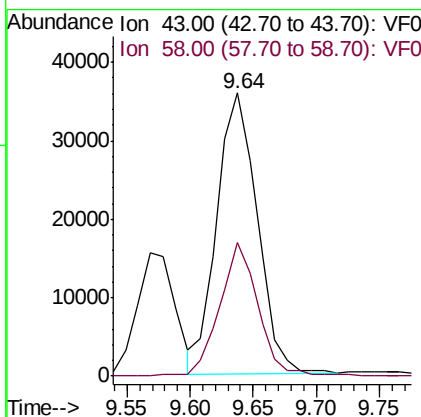
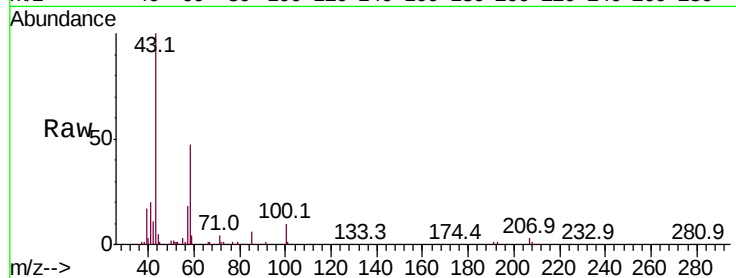
#59
2-Hexanone
Concen: 99.479 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.4	24.3	73.0

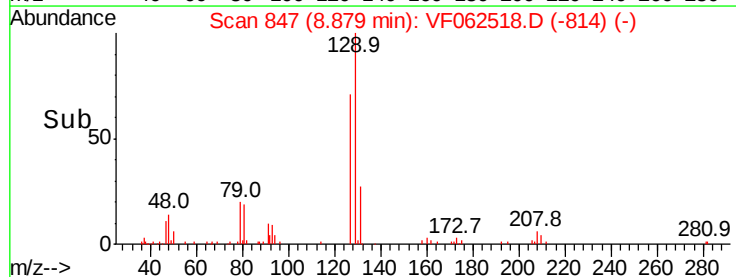
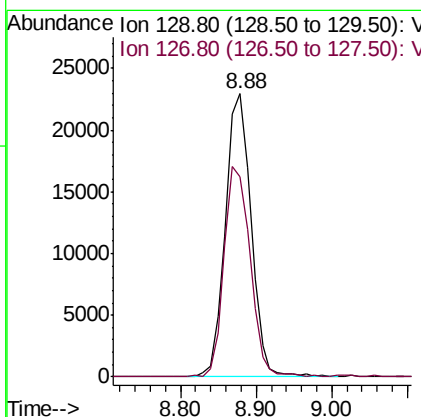
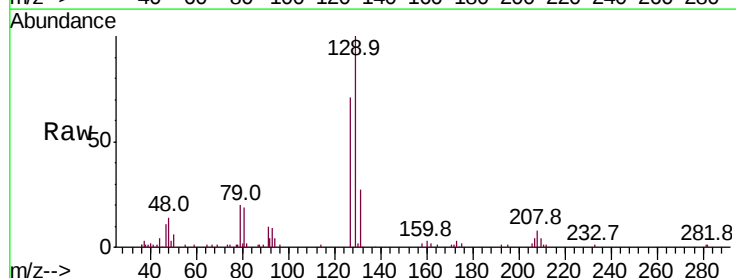
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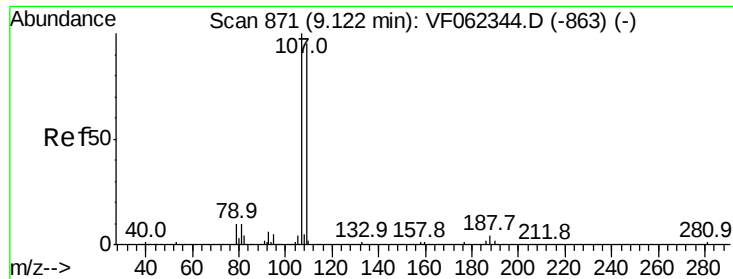
MMDadoda
5/13/2019 12:24:08 PM



#60
Dibromochloromethane
Concen: 22.610 ug/l
RT: 8.88 min Scan# 847
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.7	38.5	115.3





#61

1,2-Dibromoethane

Concen: 22.426 ug/l

RT: 9.14 min Scan# 874

Delta R.T. 0.02 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion:107 Resp: 38355

Ion Ratio Lower Upper

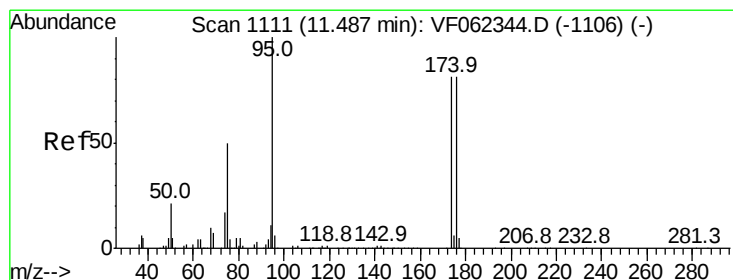
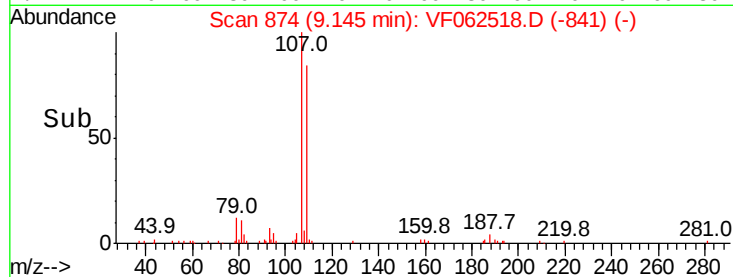
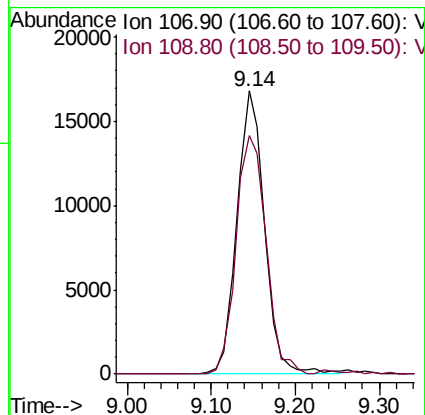
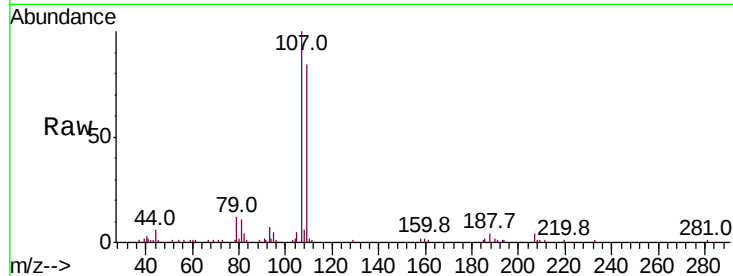
107 100

109 91.1 75.2 112.8

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#62

4-Bromofluorobenzene

Concen: 52.242 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

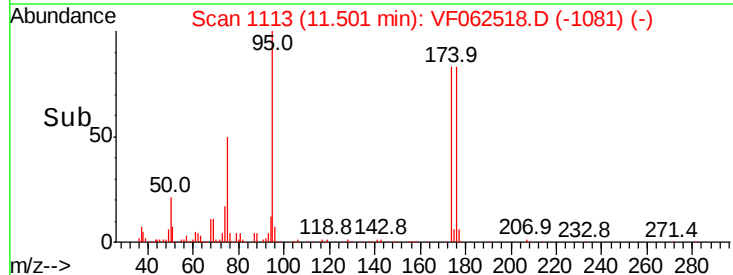
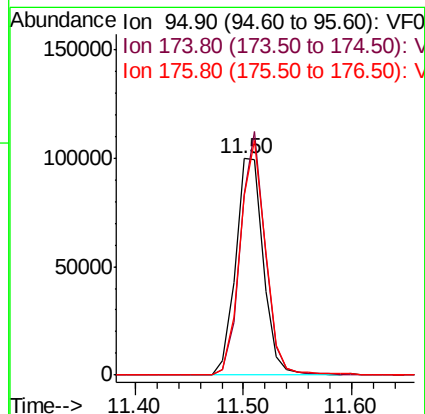
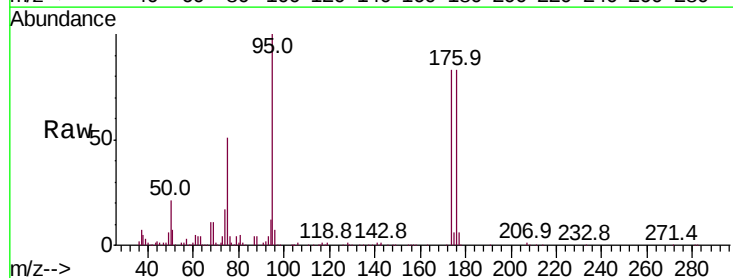
Tgt Ion: 95 Resp: 178546

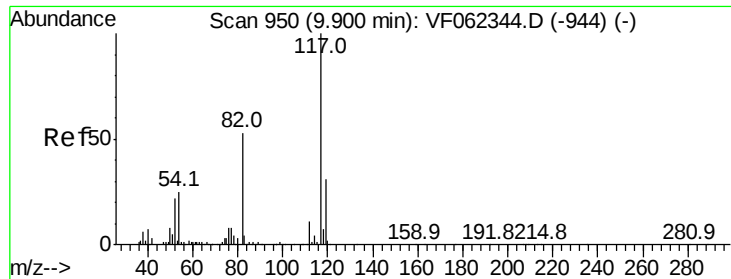
Ion Ratio Lower Upper

95 100

174 99.4 0.0 191.8

176 99.4 0.0 193.2





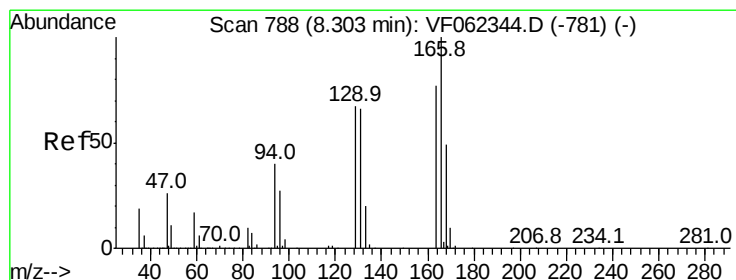
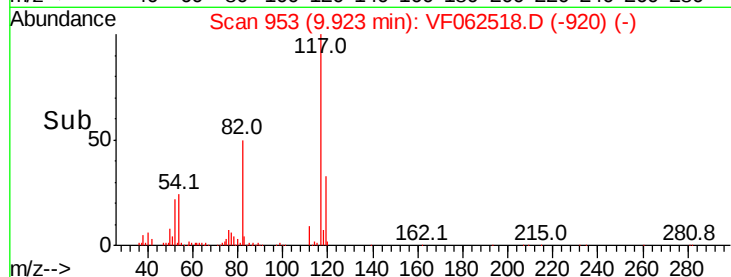
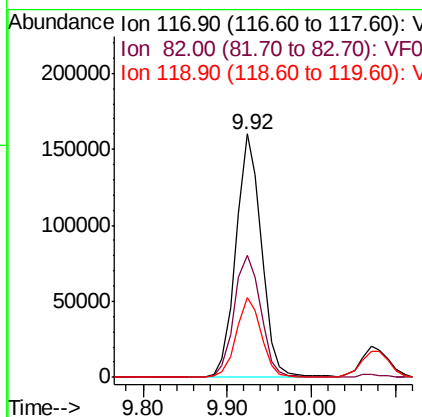
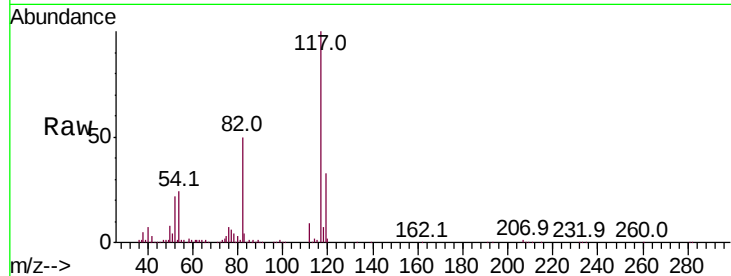
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 953
Delta R.T. 0.02 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
82	50.3	42.2	63.2	
119	32.8	25.0	37.4	

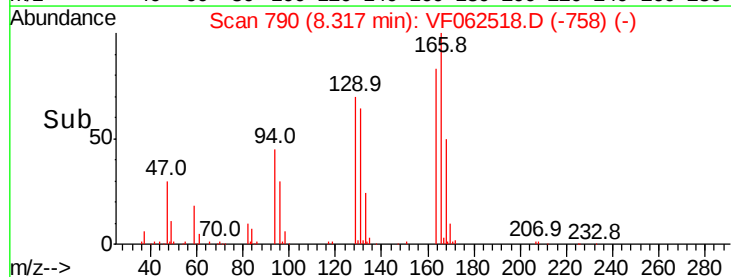
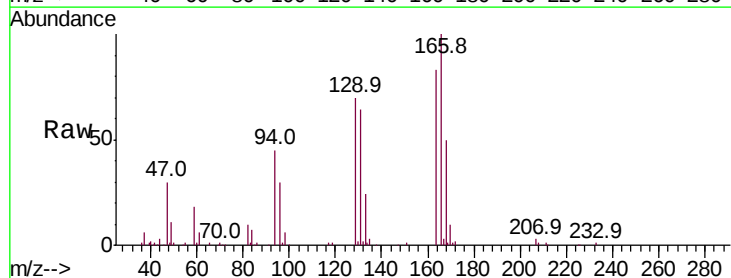
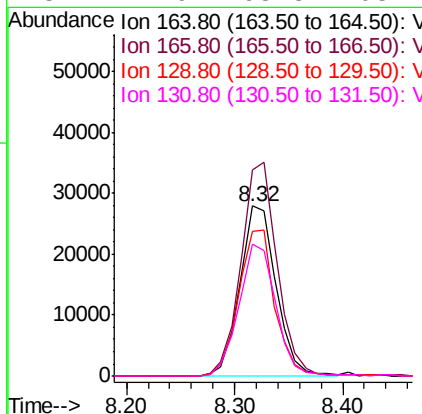
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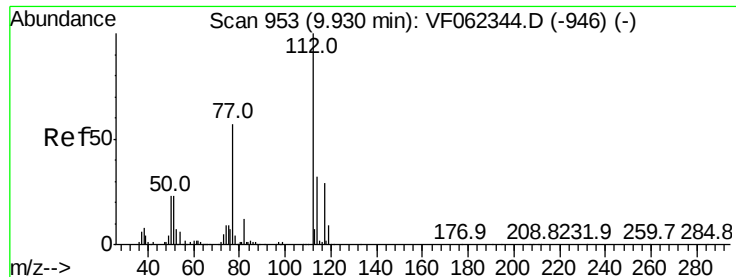
MMDadoda
5/13/2019 12:24:08 PM



#64
Tetrachloroethene
Concen: 23.809 ug/l
RT: 8.32 min Scan# 790
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	120.8	104.2	156.4	
129	84.7	69.6	104.4	
131	77.9	68.8	103.2	





#65

Chlorobenzene

Concen: 22.888 ug/l

RT: 9.94 min Scan# 955

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion:112 Resp: 128231

Ion Ratio Lower Upper

112 100

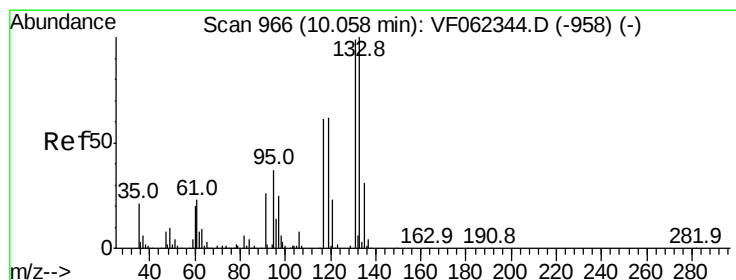
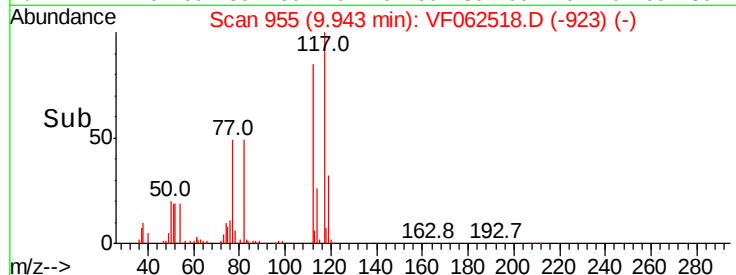
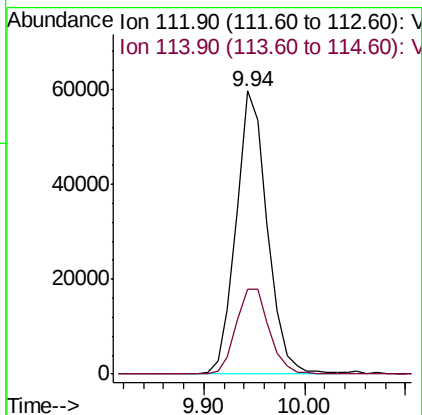
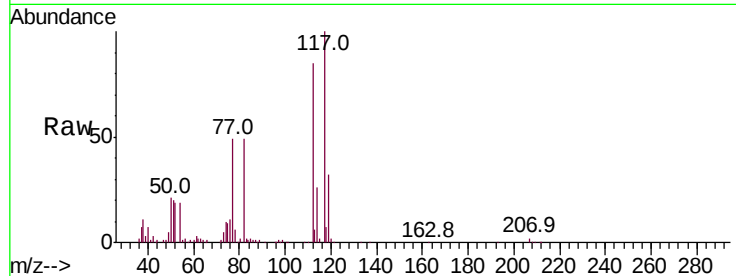
114 30.2 25.4 38.0

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 23.806 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

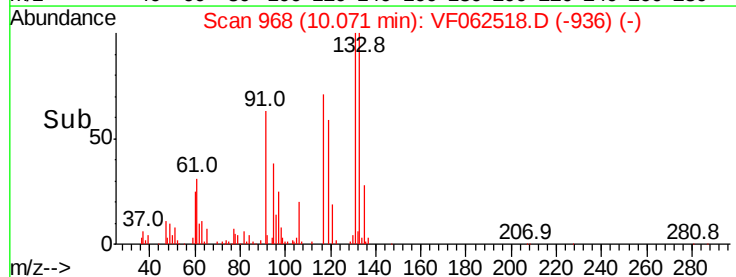
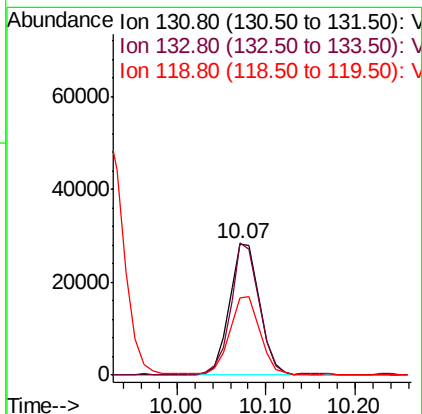
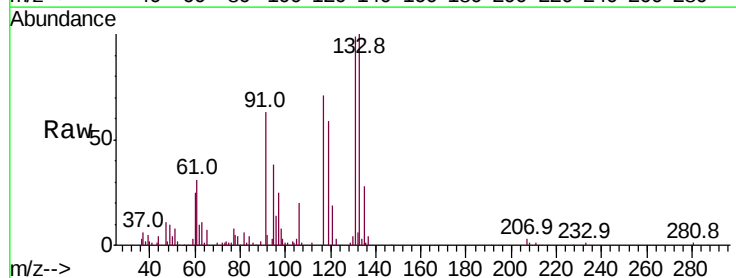
Tgt Ion:131 Resp: 67284

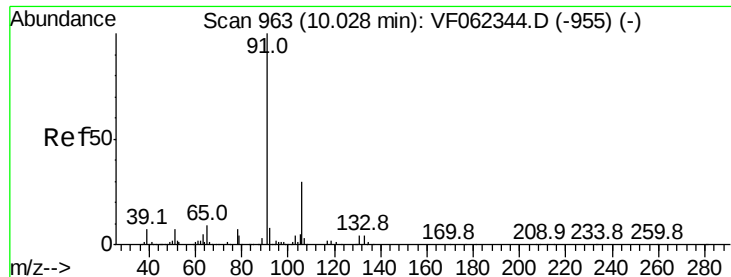
Ion Ratio Lower Upper

131 100

133 95.1 50.2 150.7

119 60.0 31.6 95.0





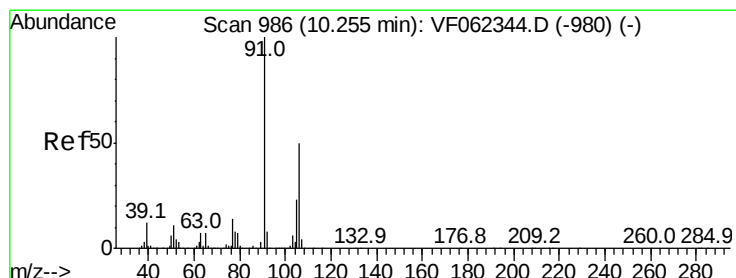
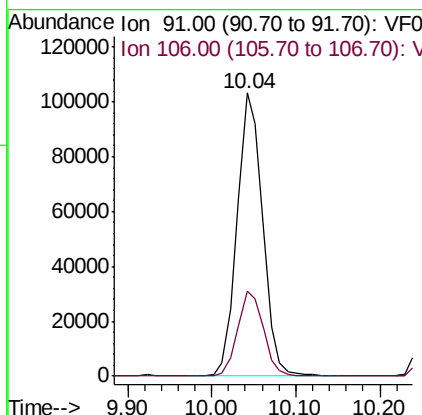
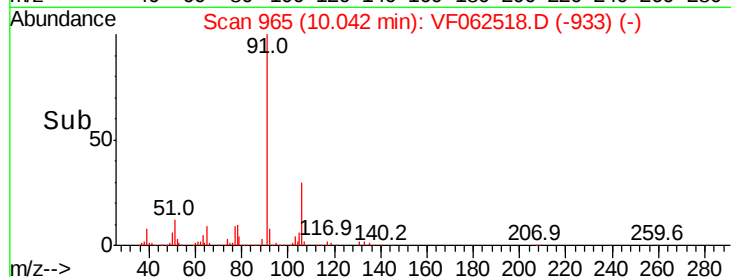
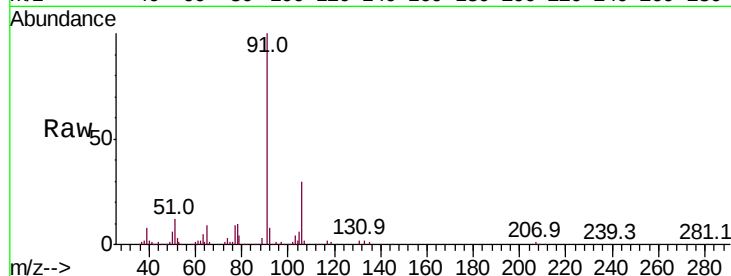
#67
Ethyl Benzene
Concen: 22.301 ug/l
RT: 10.04 min Scan# 965
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion: 91 Resp: 218791
Ion Ratio Lower Upper
91 100
106 29.8 24.1 36.1

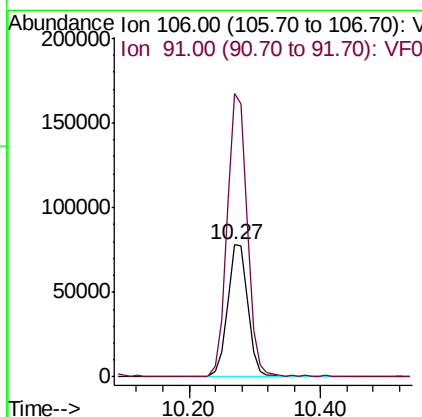
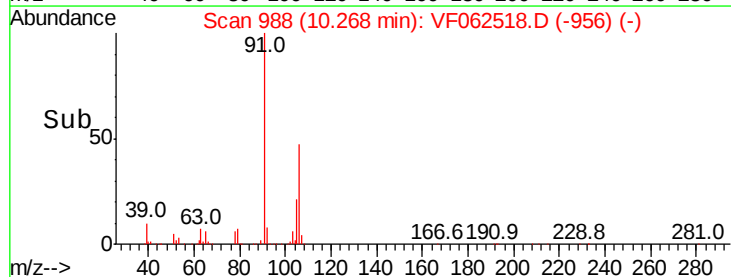
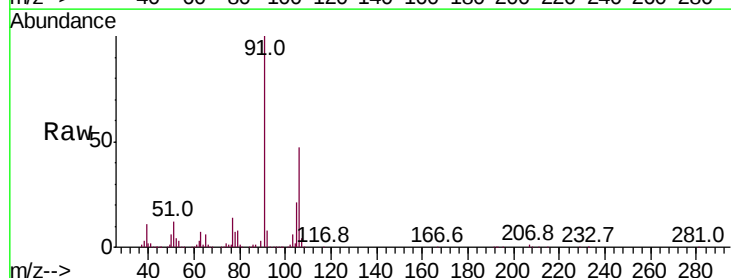
Manual Integrations
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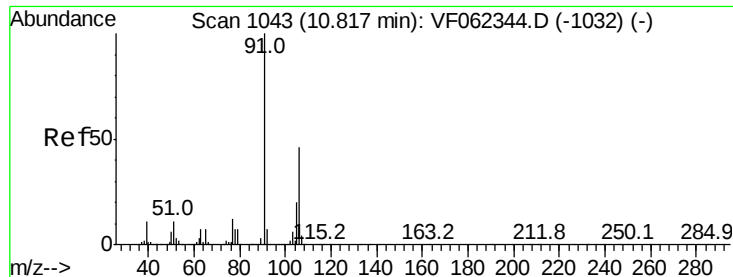
MMDadoda
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#68
m/p-Xylenes
Concen: 46.770 ug/l
RT: 10.27 min Scan# 988
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion: 106 Resp: 169298
Ion Ratio Lower Upper
106 100
91 210.7 167.4 251.2





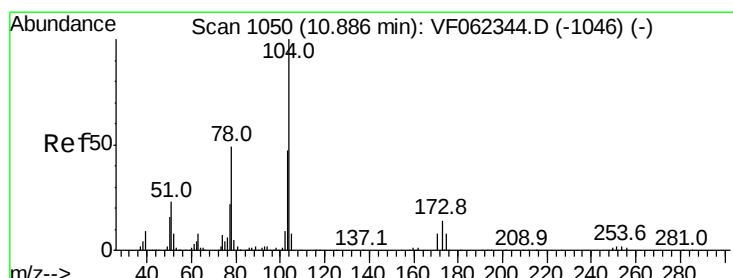
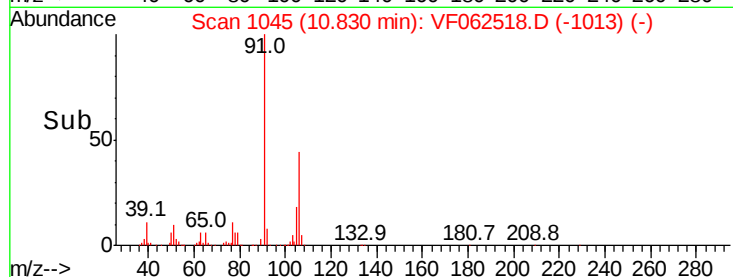
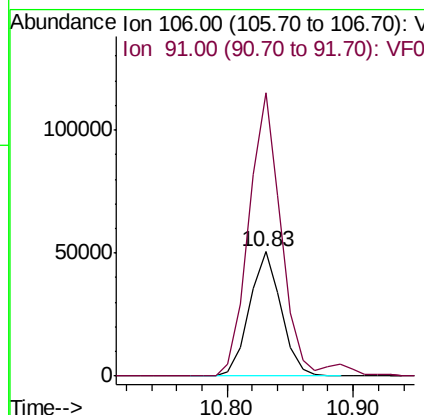
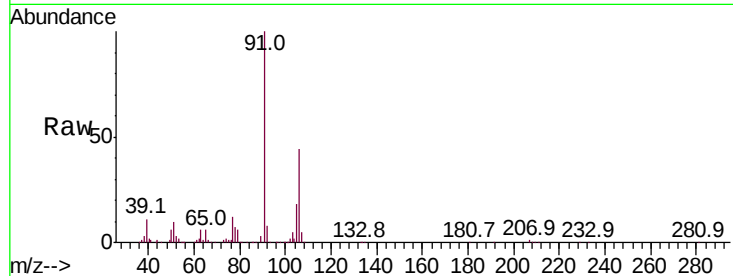
#69
o-Xylene
Concen: 22.623 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampled :
VF0512SBS02

Tot Ion	Ratio	Lower	Upper
106	100		
91	235.9	111.3	333.8

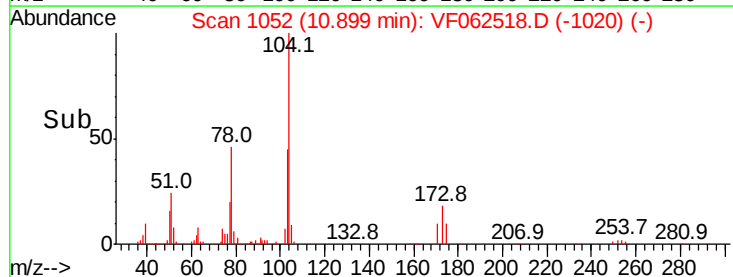
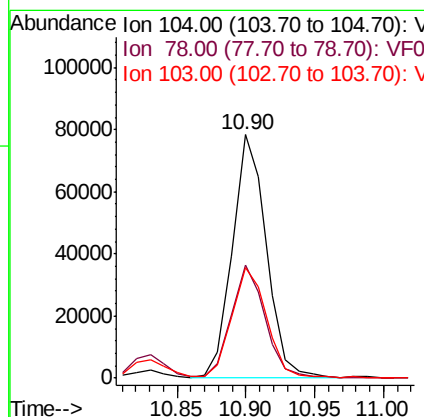
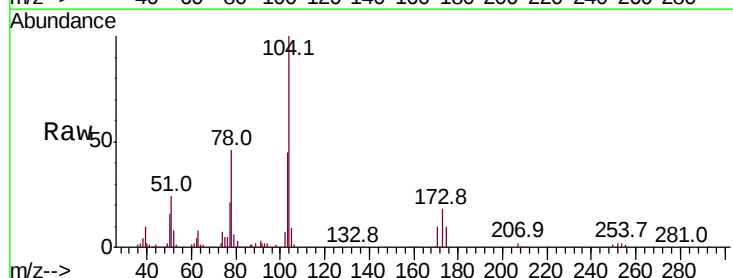
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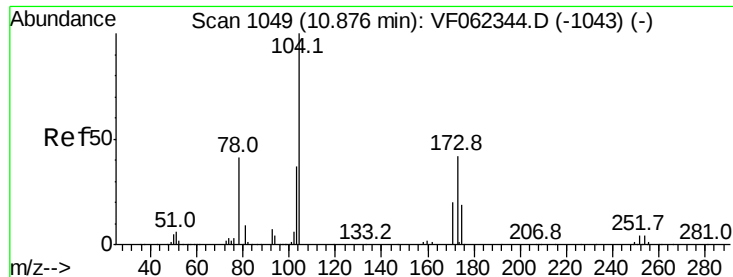
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#70
Styrene
Concen: 22.906 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.1	39.5	59.3
103	46.7	38.4	57.6





#71

Bromoform

Concen: 21.507 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

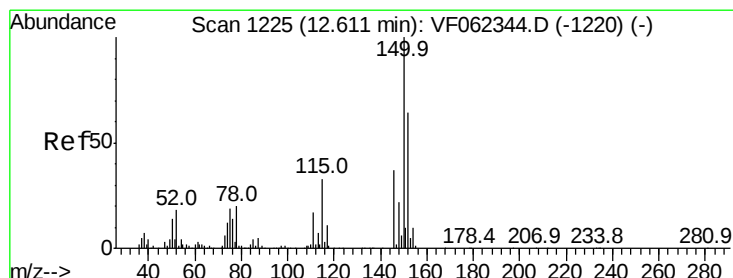
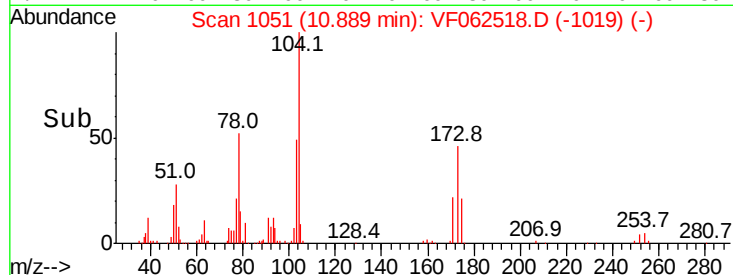
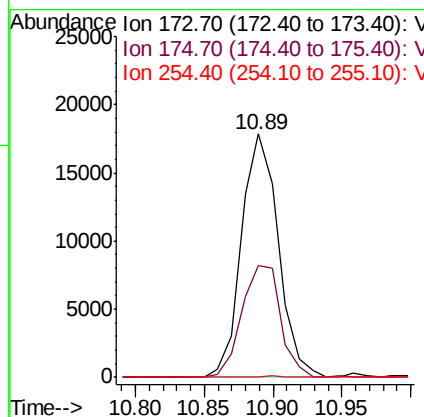
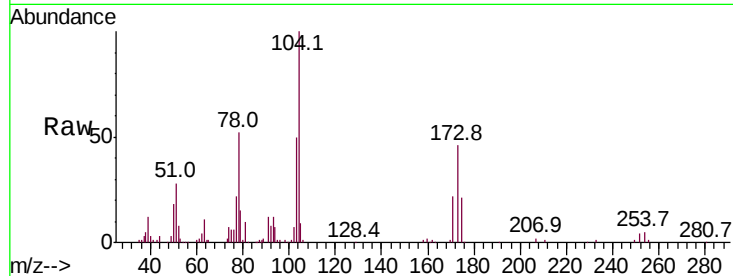
ClientSampleId :

VF0512SBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.8	71.2
254	0.2	0.1	0.1#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

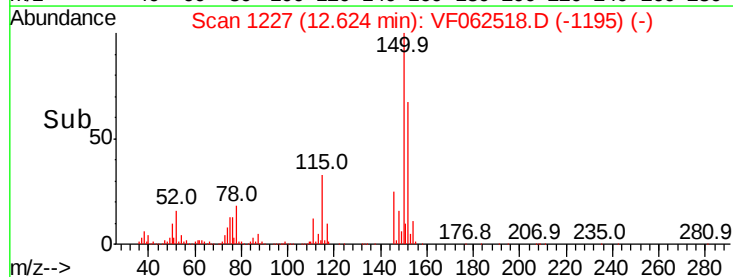
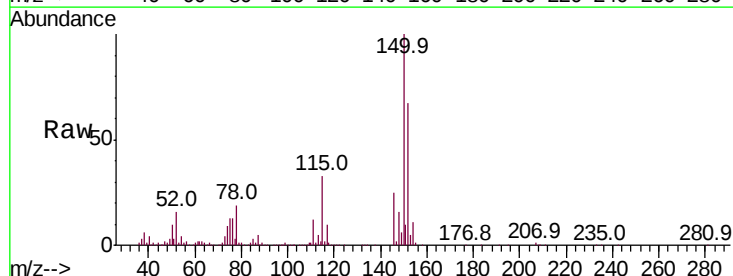
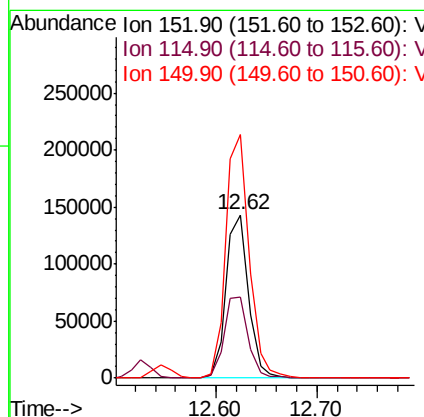
RT: 12.62 min Scan# 1227

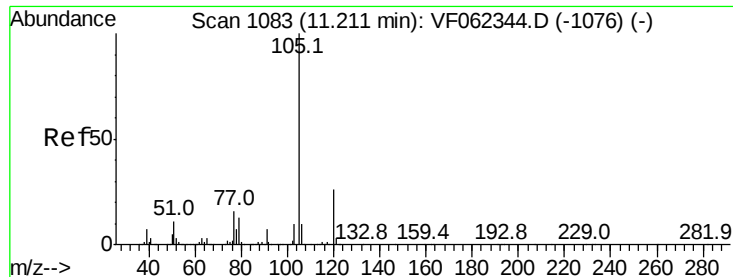
Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.4	26.4	79.2
150	155.3	0.0	335.0





#73

Isopropylbenzene

Concen: 21.407 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion:105 Resp: 283698

Ion Ratio Lower Upper

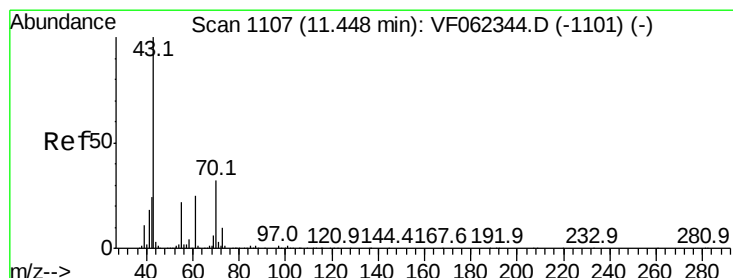
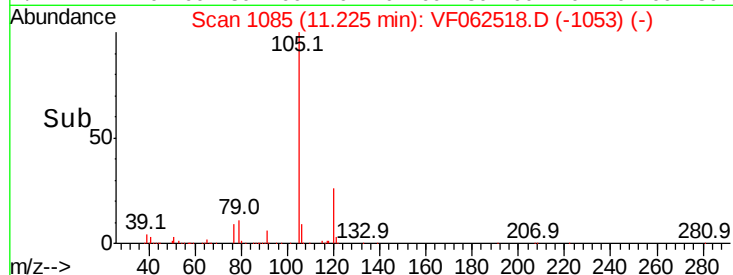
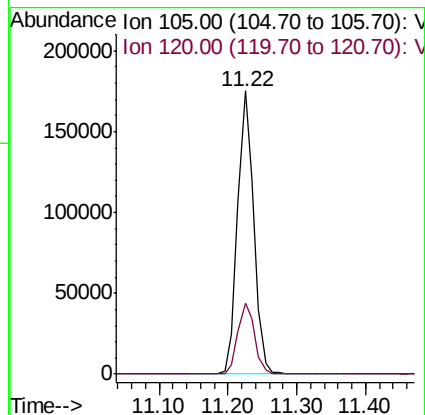
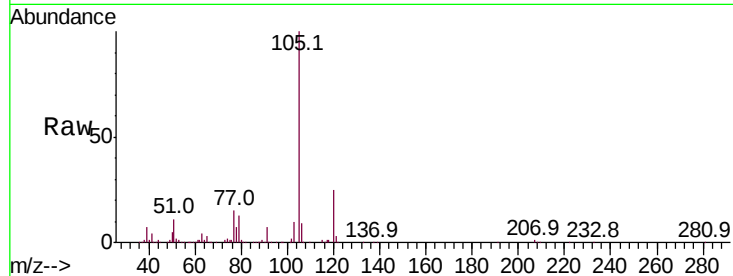
105 100

120 26.5 12.7 38.0

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#74

N-ethyl acetate

Concen: 16.404 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion: 43 Resp: 46674

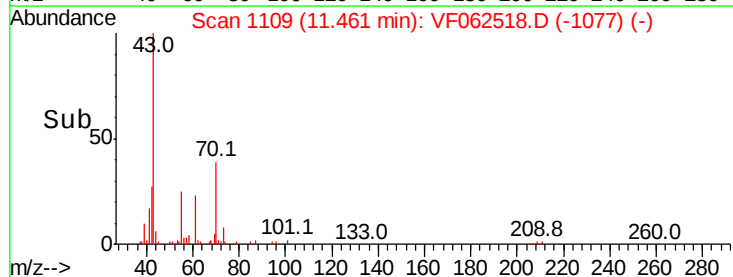
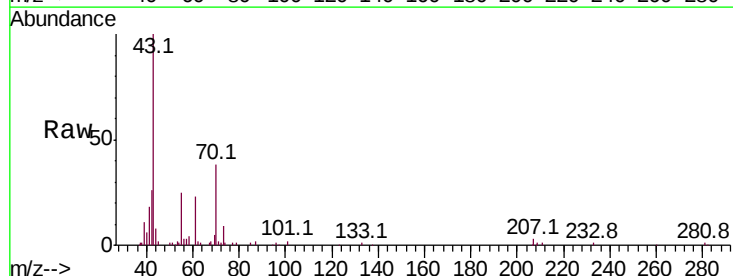
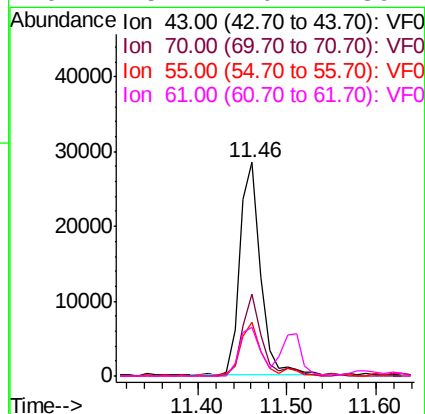
Ion Ratio Lower Upper

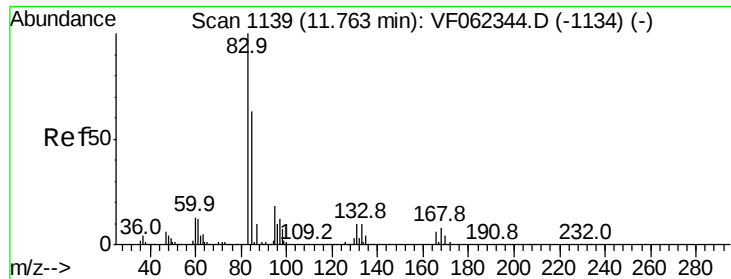
43 100

70 37.2 26.5 39.7

55 24.2 17.8 26.6

61 23.2 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.827 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

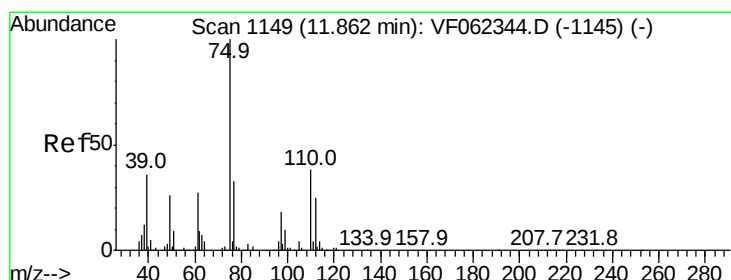
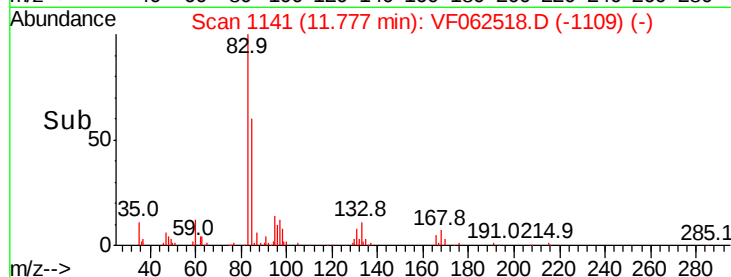
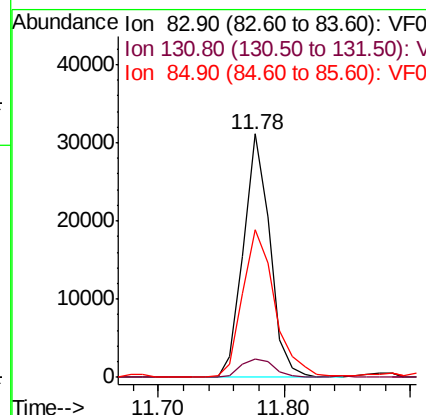
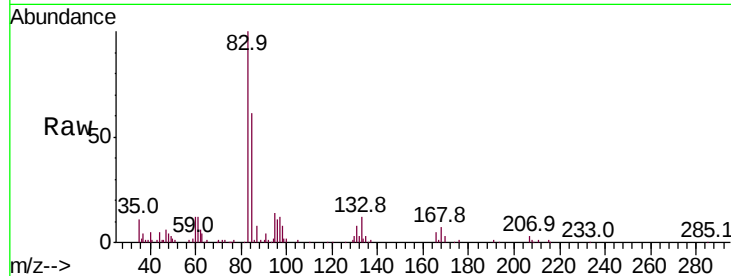
ClientSampleId :

VF0512SBS02

Tot Ion:	83	Resp:	45292
Ion Ratio	Lower	Upper	
83	100		
131	9.4	5.8	17.4
85	74.2	35.3	105.7

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#76

1,2,3-Trichloropropane

Concen: 21.205 ug/l

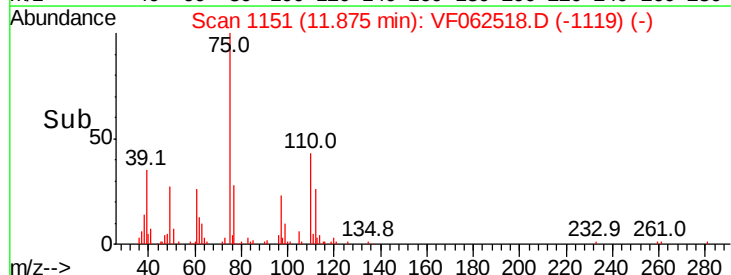
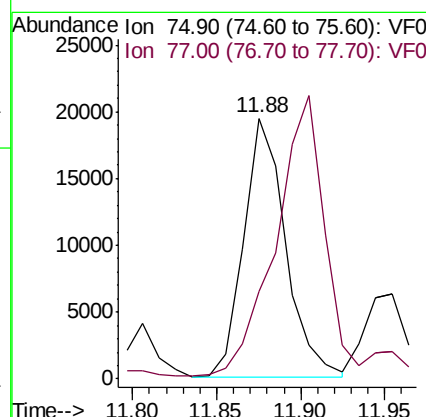
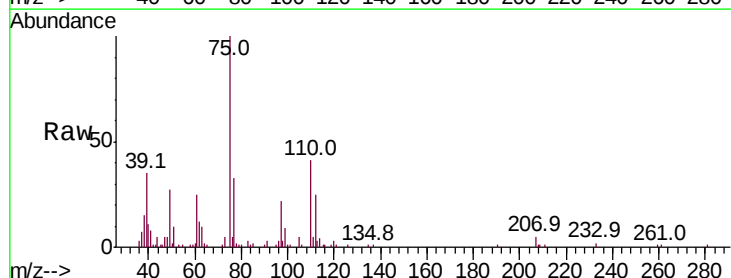
RT: 11.88 min Scan# 1151

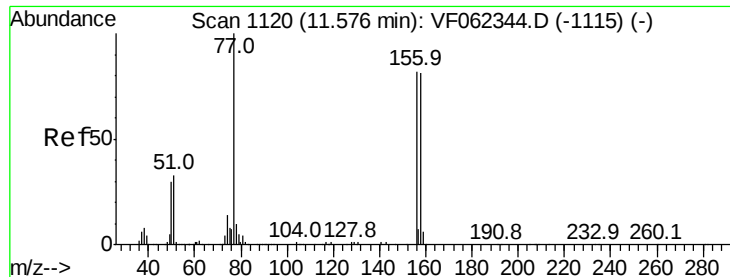
Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion:	75	Resp:	33571
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.855 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

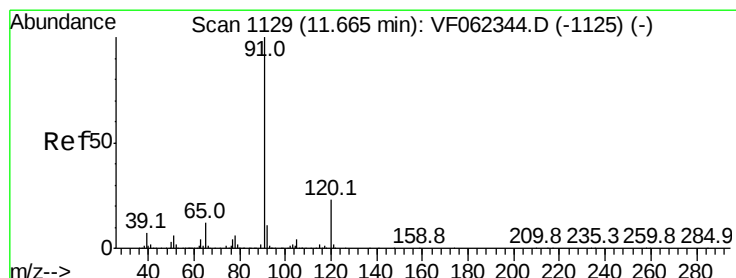
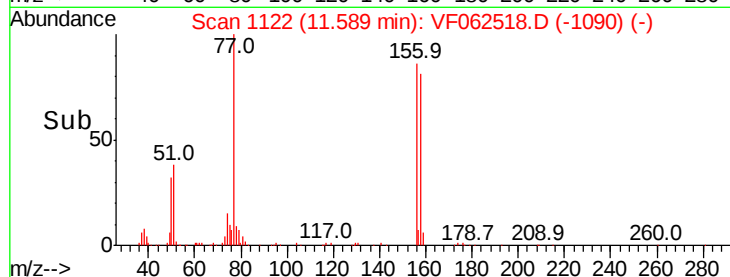
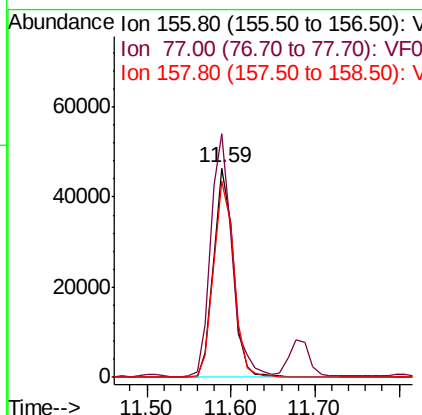
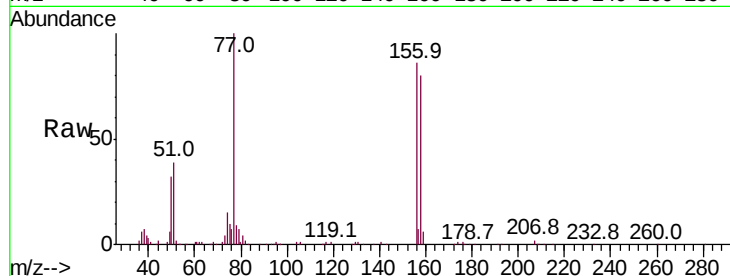
ClientSampleId :

VF0512SBS02

Tot Ion:	156	Resp:	76015
Ion Ratio	Lower	Upper	
156	100		
77	123.7	64.8	194.3
158	96.8	49.1	147.3

Manual Integrations
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#78

n-propylbenzene

Concen: 21.552 ug/l

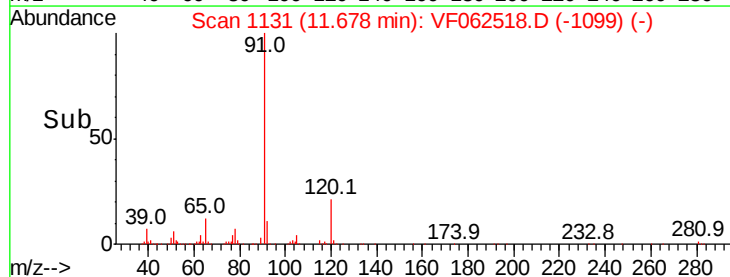
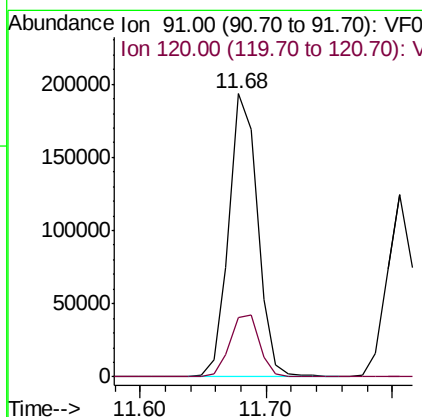
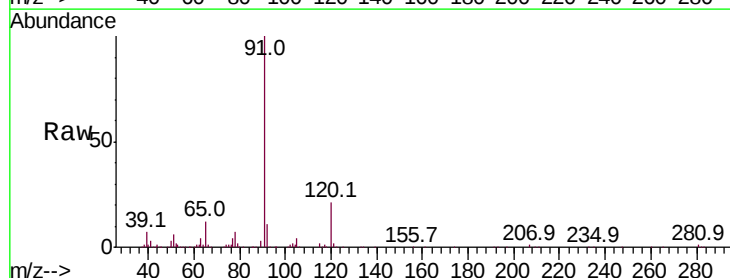
RT: 11.68 min Scan# 1131

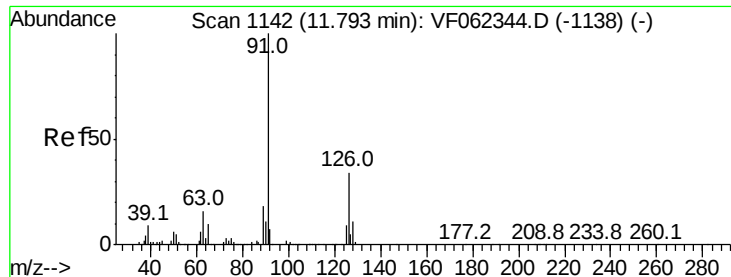
Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion:	91	Resp:	304097
Ion Ratio	Lower	Upper	
91	100		
120	23.1	11.9	35.5





#79

2-Chlorotoluene

Concen: 20.904 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS02

Tot Ion: 91 Resp: 183404

Ion Ratio Lower Upper

91 100

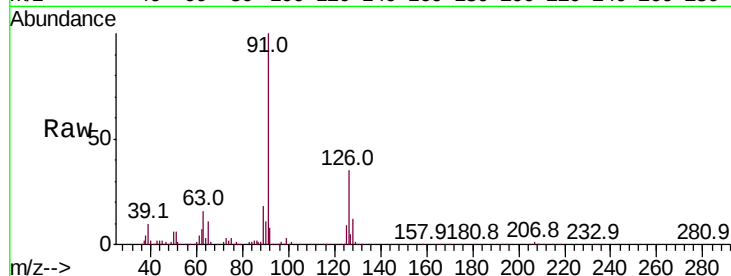
126 35.3 17.8 53.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V

11.81

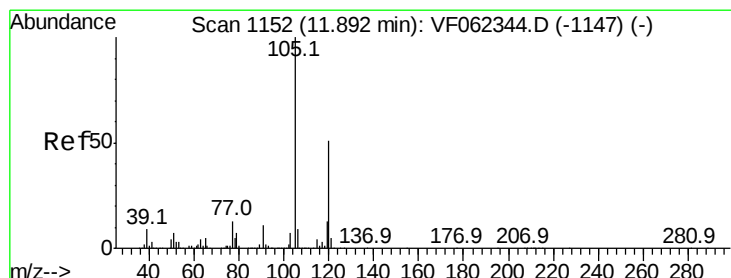
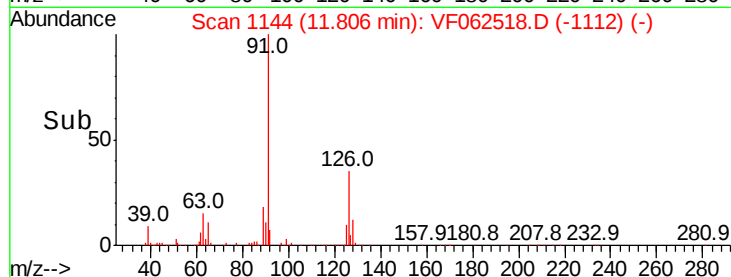
100000

50000

0

11.75 11.80 11.85

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.843 ug/l

RT: 11.90 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VF062518.D

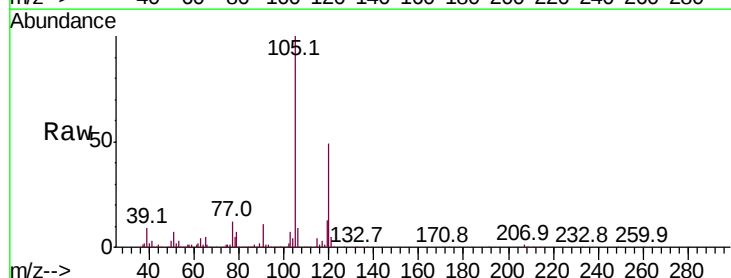
Acq: 12 May 2019 23:40

Tgt Ion:105 Resp: 253733

Ion Ratio Lower Upper

105 100

120 47.8 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

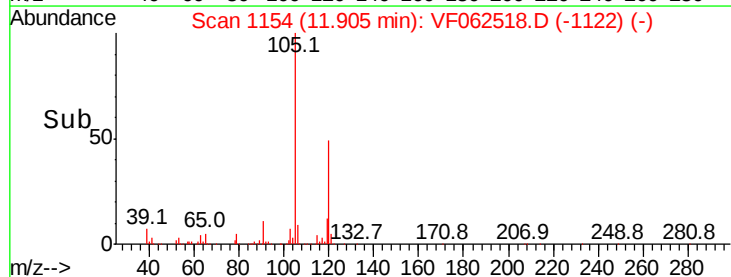
100000

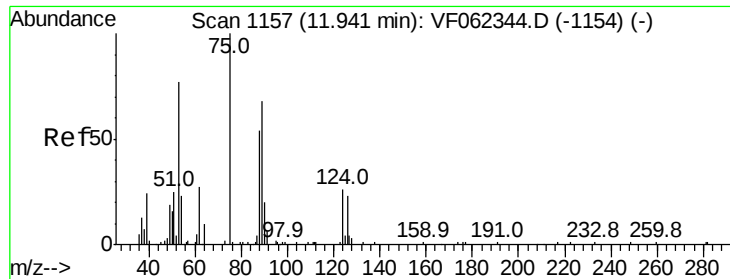
50000

0

11.80 12.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 17.403 ug/l m

RT: 11.95 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

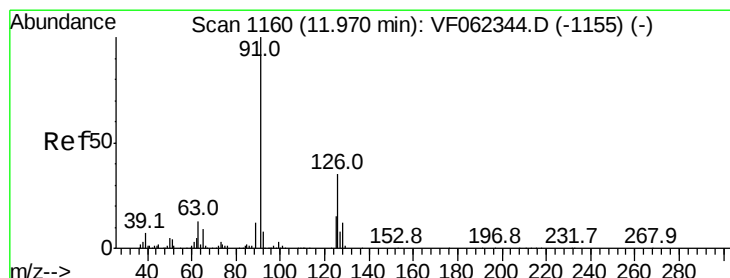
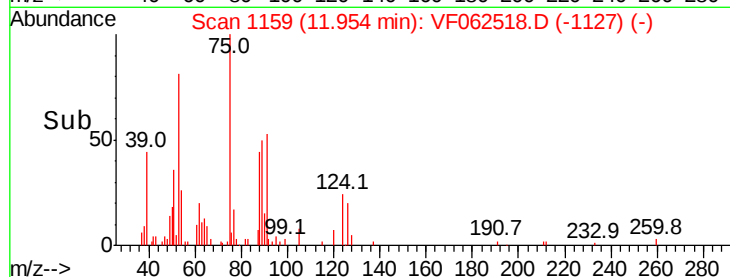
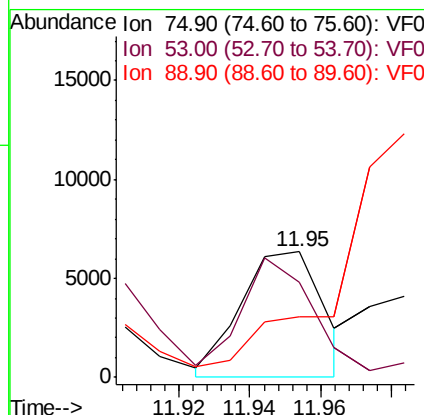
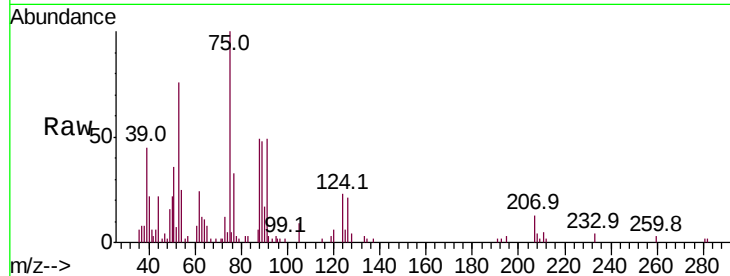
ClientSampleId :

VF0512SBS02

Tot Ion:	75	Resp:	10356
Ion	Ratio	Lower	Upper
75	100		
53	89.0	71.9	107.9
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.846 ug/l

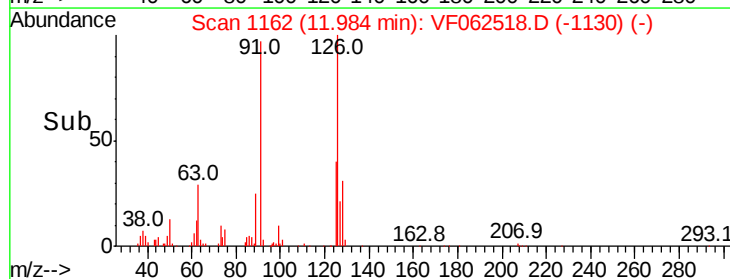
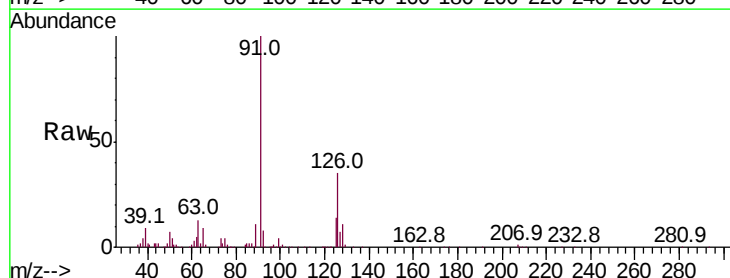
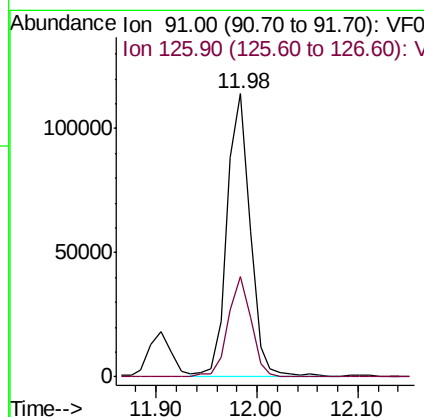
RT: 11.98 min Scan# 1162

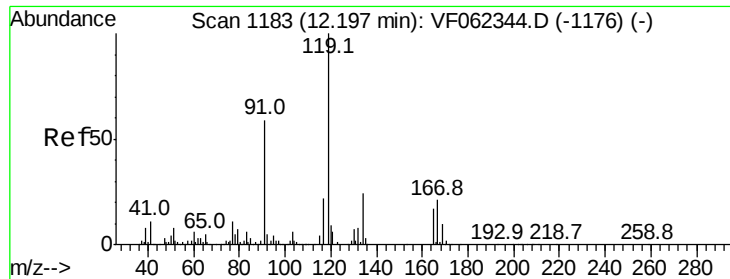
Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion:	91	Resp:	180640
Ion	Ratio	Lower	Upper
91	100		
126	36.4	17.7	53.1





#83

tert-Butylbenzene

Concen: 21.193 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Instrument :

MSVOA_F

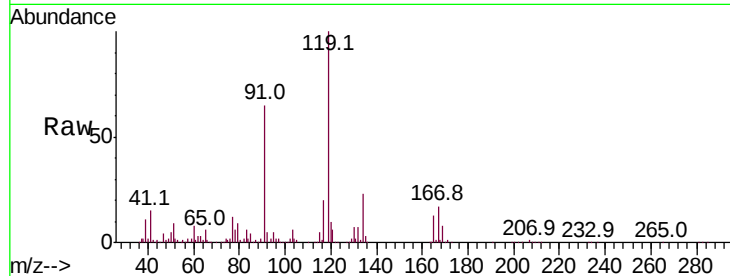
ClientSampleId :

VF0512SBS02

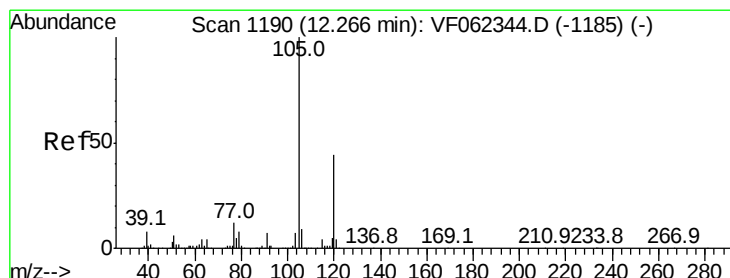
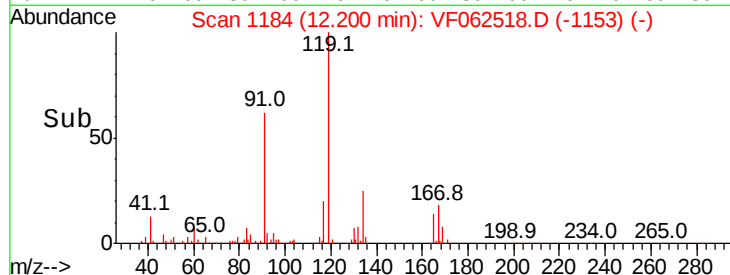
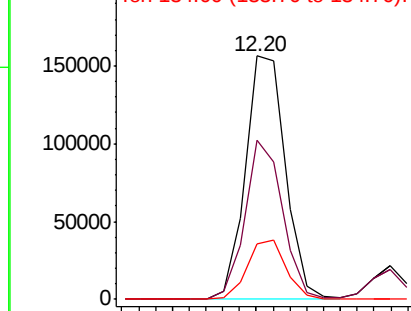
Tot Ion:	119	Resp:	258719
Ion Ratio	Lower	Upper	
119	100		
91	61.1	30.4	91.3
134	23.7	11.9	35.7

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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.578 ug/l

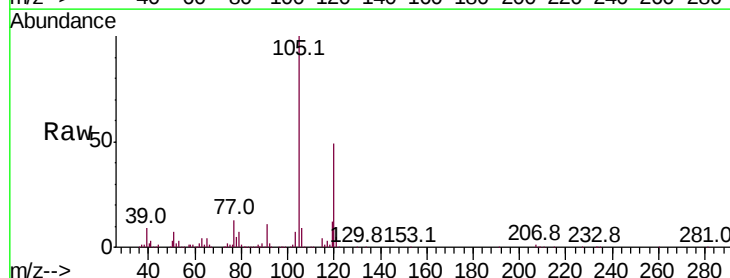
RT: 12.28 min Scan# 1192

Delta R.T. 0.01 min

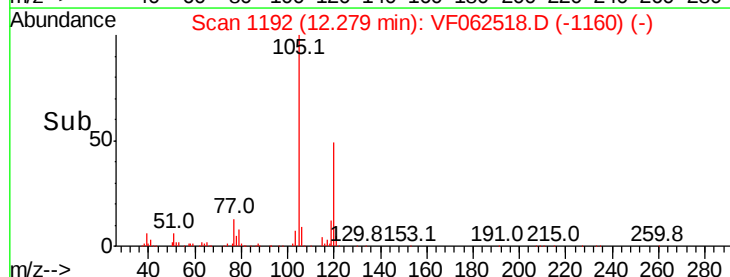
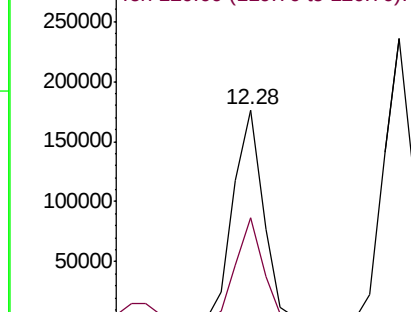
Lab File: VF062518.D

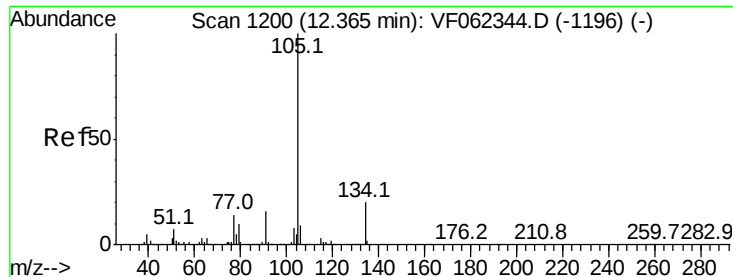
Acq: 12 May 2019 23:40

Tgt Ion:	105	Resp:	245287
Ion Ratio	Lower	Upper	
105	100		
120	46.1	22.6	67.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





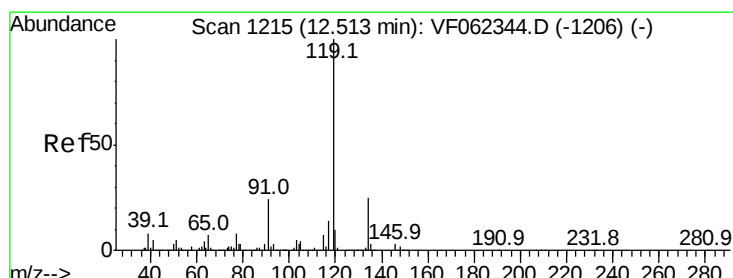
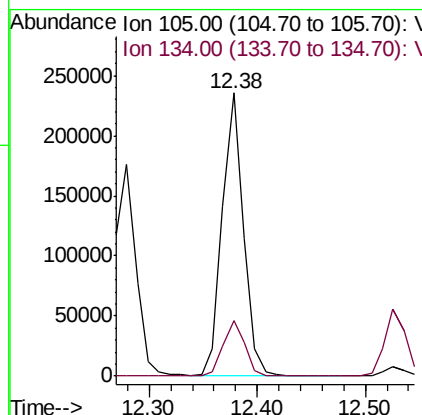
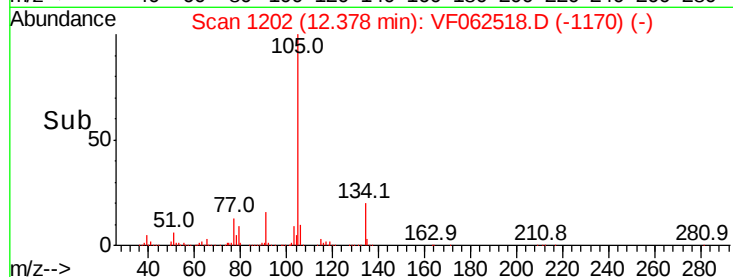
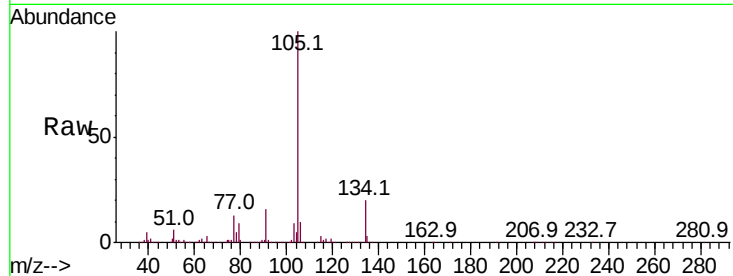
#85
 sec-Butylbenzene
 Concen: 21.622 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS02

Tot Ion	Ratio	Resp	Lower	Upper
105	100	321280		
134	20.0	9.8	29.5	

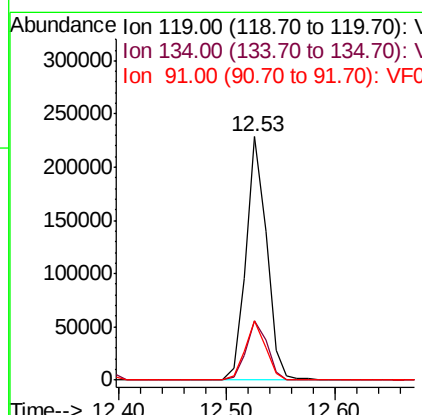
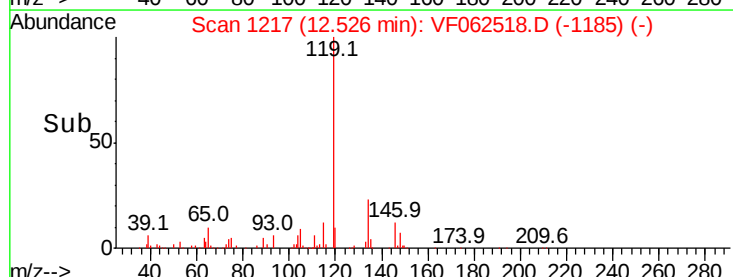
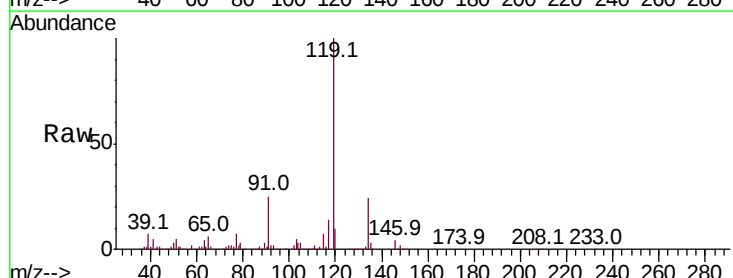
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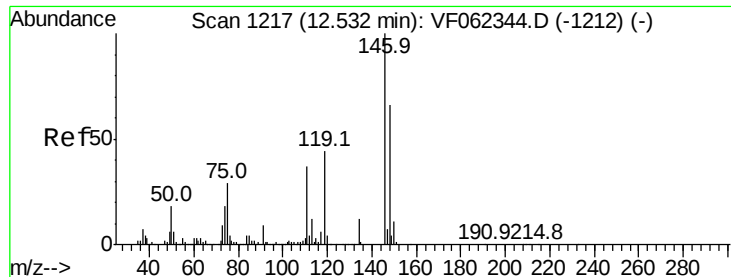
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#86
 p-Isopropyltoluene
 Concen: 21.903 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. 0.01 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	302386		
134	25.0	12.9	38.7	
91	24.3	12.3	36.8	





#87

1,3-Dichlorobenzene

Concen: 23.156 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

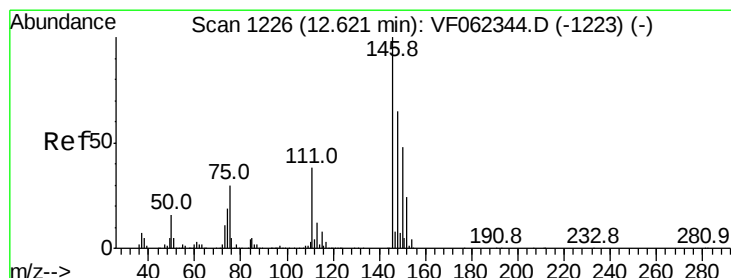
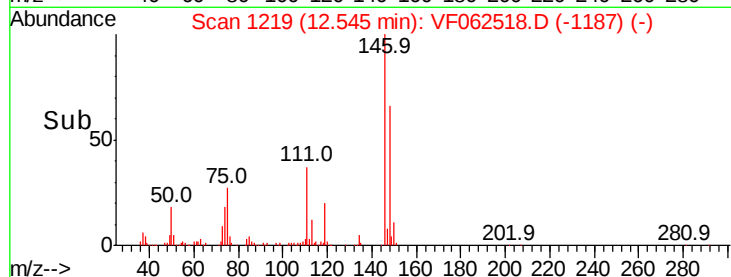
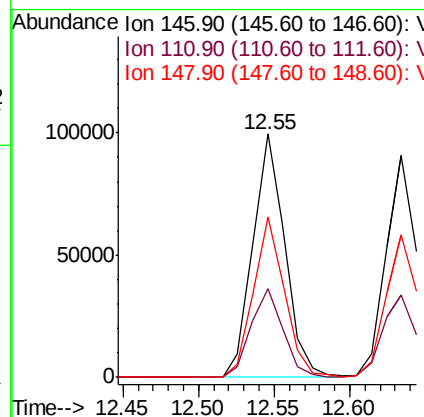
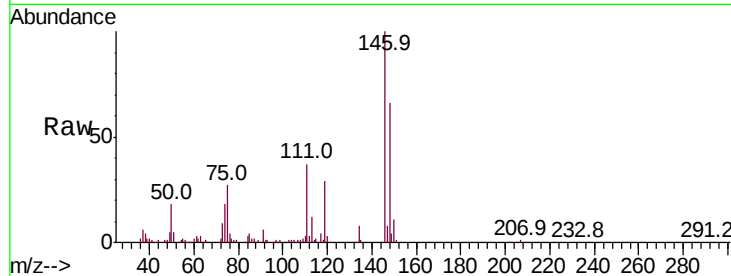
Instrument :
MSVOA_F

Client Sampled :
VF0512SBS02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	147097		
111	36.7	18.3	54.8	
148	63.9	32.3	96.9	

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#88

1,4-Dichlorobenzene

Concen: 21.808 ug/l

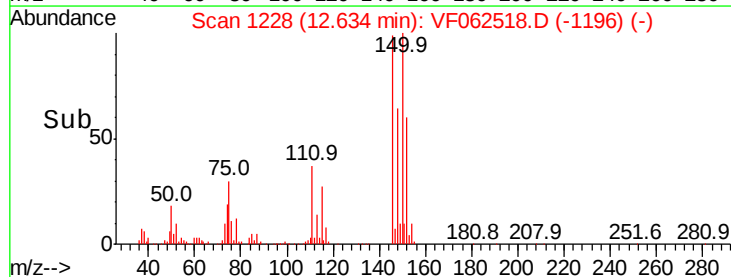
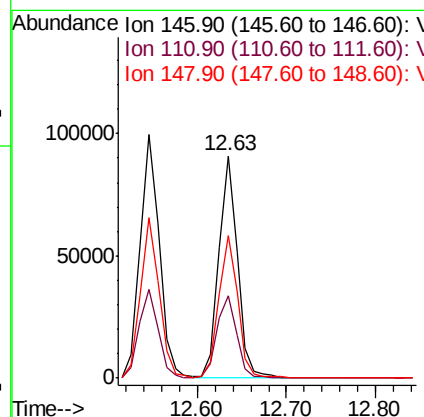
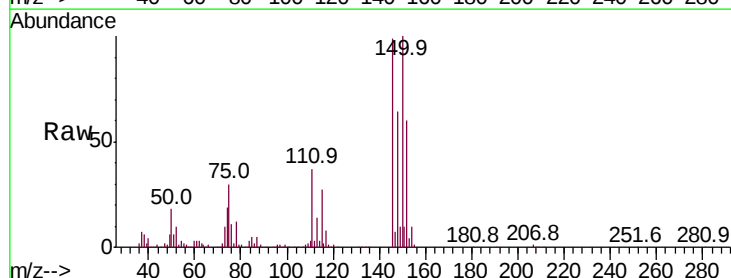
RT: 12.63 min Scan# 1228

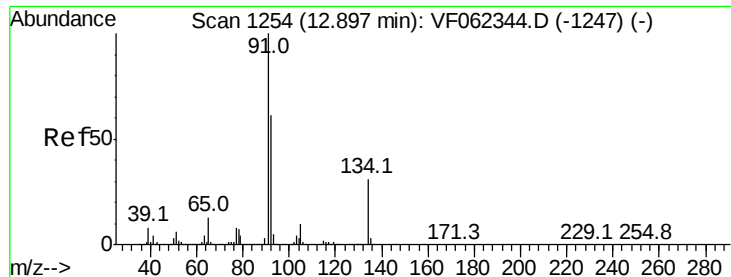
Delta R.T. 0.01 min

Lab File: VF062518.D

Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	133705		
111	39.6	18.8	56.3	
148	65.8	32.2	96.6	





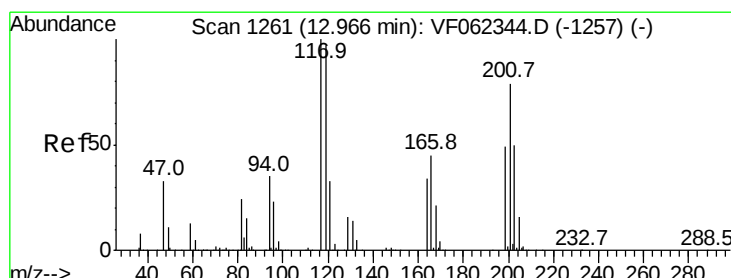
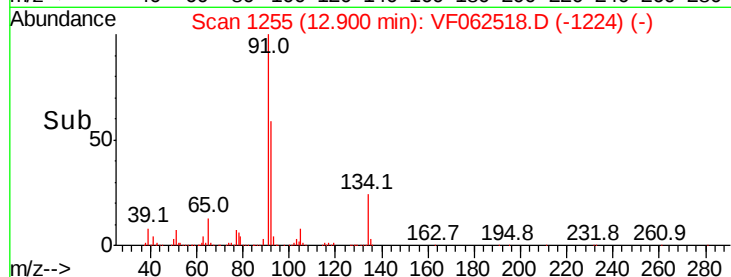
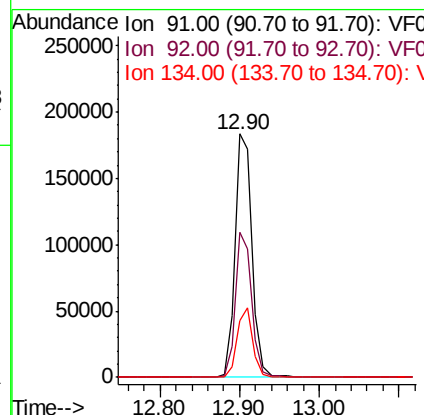
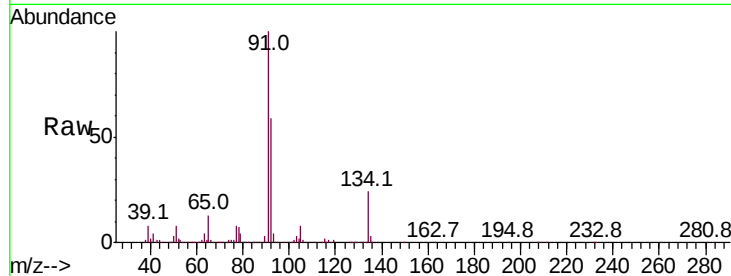
#89
n-Butylbenzene
Concen: 22.444 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Resp	Lower	Upper
91	100	275665		
92	57.0		30.0	90.0
134	26.7		14.1	42.4

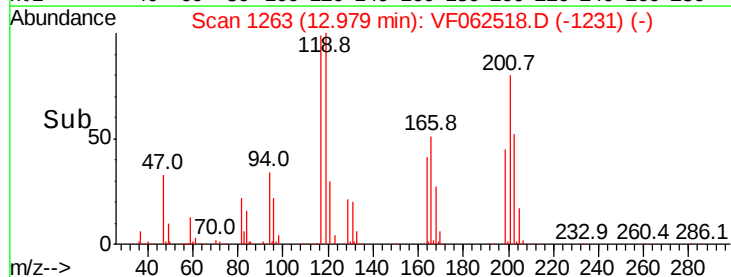
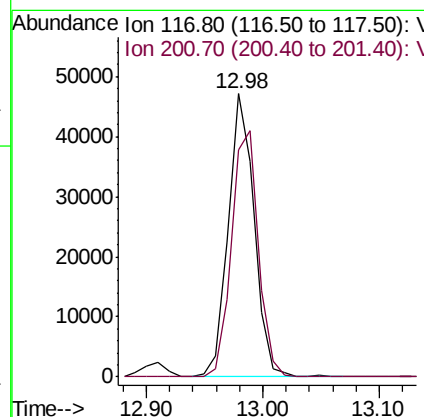
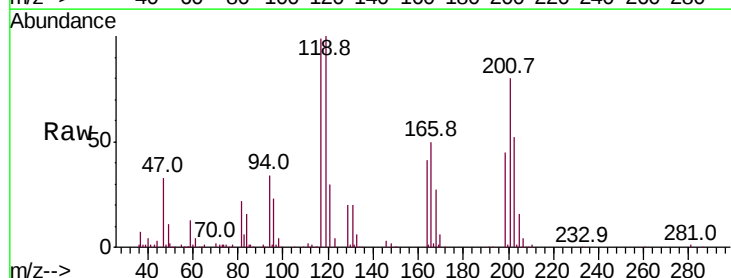
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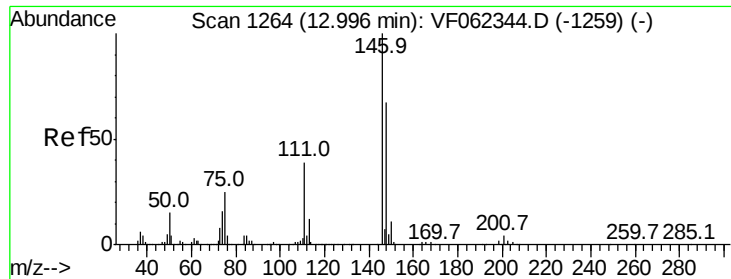
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#90
Hexachloroethane
Concen: 21.083 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	72673		
201	90.2		46.2	138.5





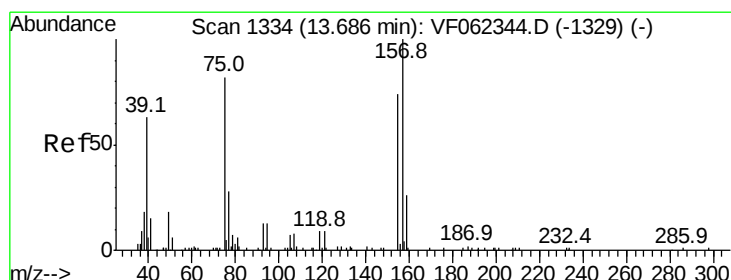
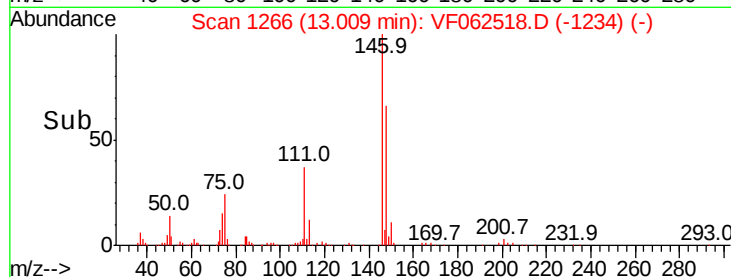
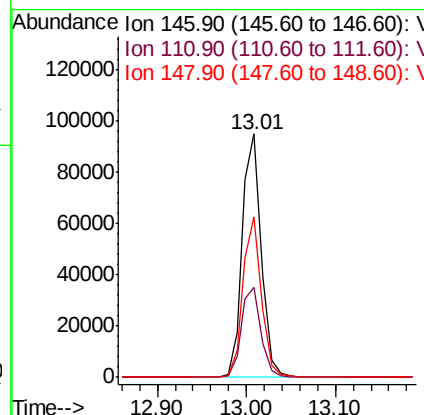
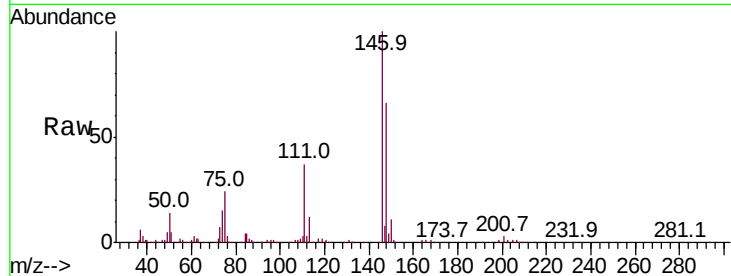
#91
 1,2-Dichlorobenzene
 Concen: 23.189 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. 0.01 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	142577		
111	38.2	20.0	60.0	
148	64.1	33.1	99.5	

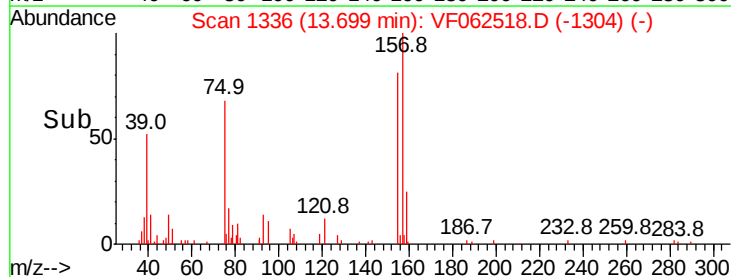
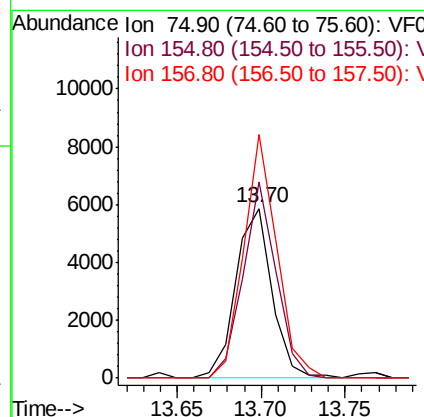
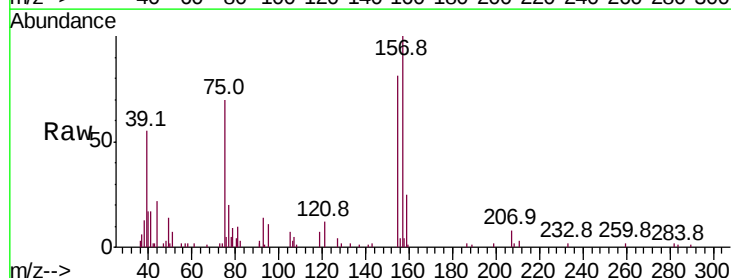
Manual Integrations
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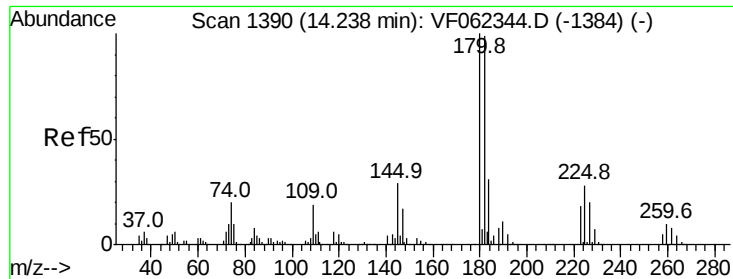
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.979 ug/l
 RT: 13.70 min Scan# 1336
 Delta R.T. 0.01 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8823		
155	104.8	51.8	155.4	
157	129.4	67.3	201.8	





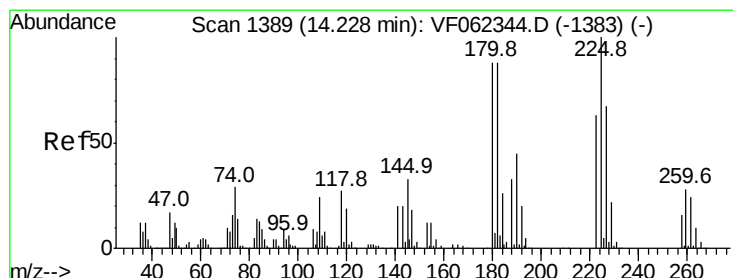
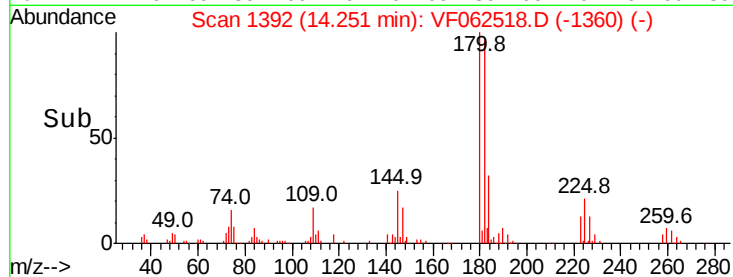
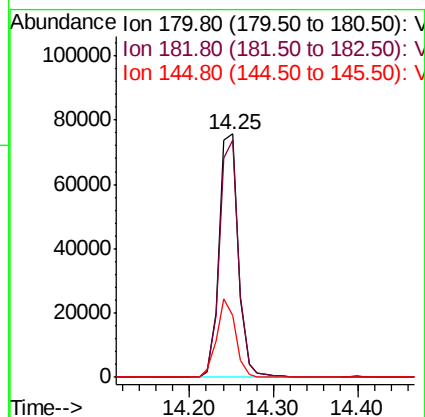
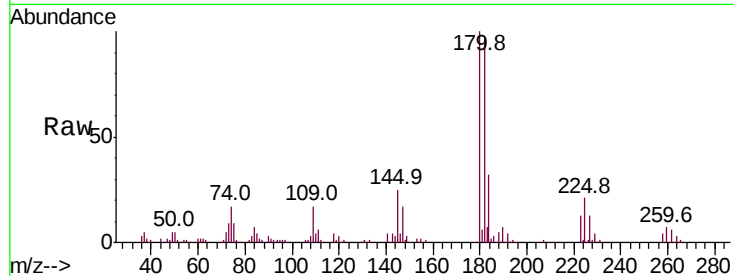
#93
 1,2,4-Trichlorobenzene
 Concen: 21.858 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.4	49.0	147.0	
145	31.5	16.7	50.1	

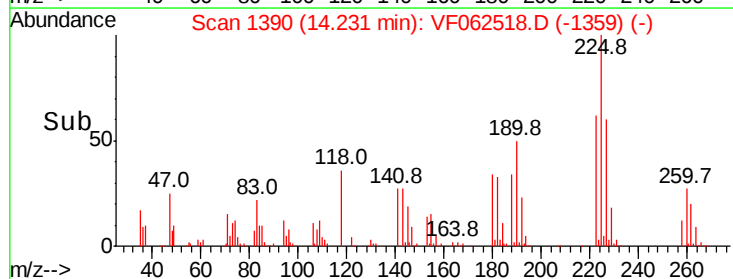
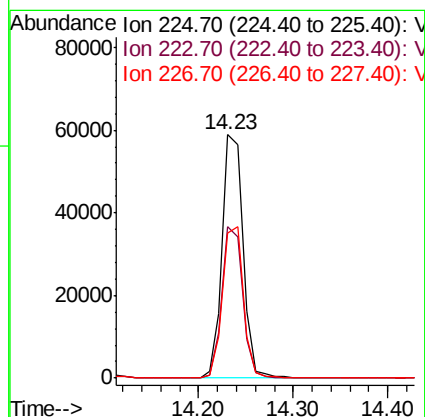
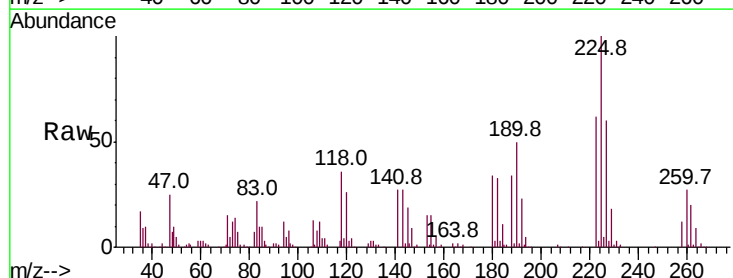
Manual Integrations
 APPROVED

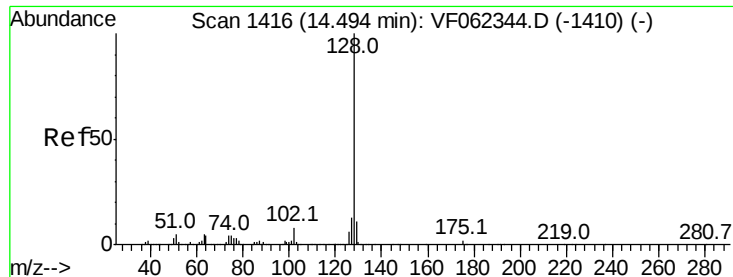
MMDadoda
 5/13/2019 12:24:08 PM



#94
 Hexachlorobutadiene
 Concen: 21.948 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VF062518.D
 Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.9	31.9	95.5	
227	62.6	33.1	99.5	





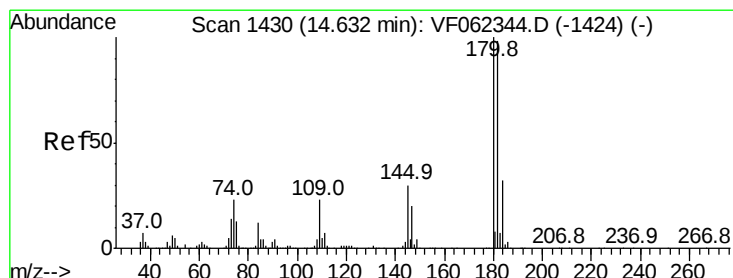
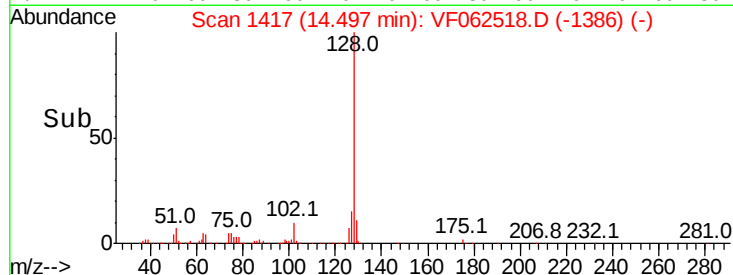
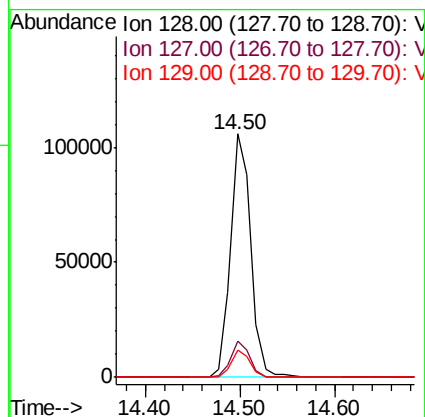
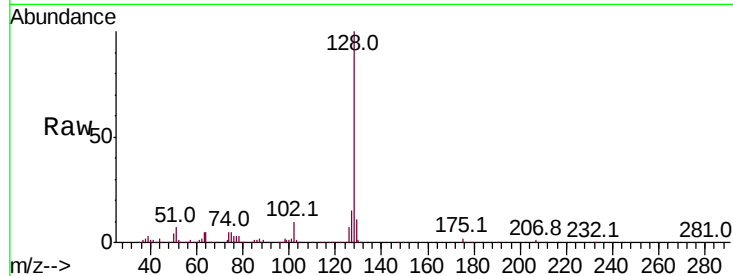
#95
Naphthalene
Concen: 19.029 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS02

Tot Ion	Ratio	Resp	Lower	Upper
128	100	157775		
127	13.9		10.5	15.7
129	10.5		8.6	12.8

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:24:08 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.642 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VF062518.D
Acq: 12 May 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	115628		
182	95.3		49.4	148.0
145	28.0		14.8	44.3

