

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101918\
 Data File : VN051937.D
 Acq On : 19 Oct 2018 10:27
 Operator : MD\SY
 Sample : VN1019WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/22/2018 11:35:21 AM

Quant Time: Oct 19 23:37:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 19 05:11:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1080370	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1572580	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1383202	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	608429	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	489659	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
35) Dibromofluoromethane	7.59	113	493537	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
50) Toluene-d8	10.09	98	1786366	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
62) 4-Bromofluorobenzene	12.40	95	560244	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	119645	18.303	ug/l	98
3) Chloromethane	2.06	50	118052	18.483	ug/l	96
4) Vinyl Chloride	2.19	62	179494	18.606	ug/l	99
5) Bromomethane	2.57	94	164595	19.641	ug/l	98
6) Chloroethane	2.71	64	139825	19.972	ug/l	100
7) Trichlorofluoromethane	3.02	101	299594	20.153	ug/l	99
8) Diethyl Ether	3.41	74	89335	20.512	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	176959	20.746	ug/l	98
10) Methyl Iodide	3.96	142	205523	20.381	ug/l	99
11) Tert butyl alcohol	4.79	59	46933m	80.194	ug/l	
12) 1,1-Dichloroethene	3.74	96	154921	19.925	ug/l	99
13) Acrolein	3.61	56	31391	60.139	ug/l	93
14) Allyl chloride	4.32	41	160302	19.036	ug/l	91
15) Acrylonitrile	4.99	53	200387	93.774	ug/l	99
16) Acetone	3.82	43	165284	93.196	ug/l	100
17) Carbon Disulfide	4.05	76	343725	17.731	ug/l	99
18) Methyl Acetate	4.33	43	103287	17.789	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	428131	19.107	ug/l	99
20) Methylene Chloride	4.55	84	175378	19.453	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	173584	19.426	ug/l	98
22) Diisopropyl ether	5.95	45	394271	20.089	ug/l	92
23) Vinyl Acetate	5.90	43	1292734	95.674	ug/l	99
24) 1,1-Dichloroethane	5.85	63	285779	20.107	ug/l	99
25) 2-Butanone	6.84	43	237546	93.719	ug/l	98
26) 2,2-Dichloropropane	6.83	77	268415	19.968	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	207854	20.016	ug/l	99
28) Bromochloromethane	7.19	49	115198	19.960	ug/l	95
29) Tetrahydrofuran	7.21	42	142006	91.728	ug/l	97
30) Chloroform	7.37	83	346827	20.398	ug/l	98
31) Cyclohexane	7.65	56	246079	19.698	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	317532	20.022	ug/l	98
36) 1,1-Dichloropropene	7.80	75	244365	20.021	ug/l	99
37) Ethyl Acetate	6.93	43	101771	17.264	ug/l	99
38) Carbon Tetrachloride	7.77	117	286941	19.963	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	307310	20.333	ug/l	100
40) Benzene	8.04	78	729568	20.461	ug/l	99
41) Methacrylonitrile	7.19	41	62001m	22.364	ug/l	
42) 1,2-Dichloroethane	8.13	62	230401	20.170	ug/l	99
43) Isopropyl Acetate	8.16	43	205210	17.625	ug/l #	88
44) Trichloroethene	8.83	130	225702	20.171	ug/l	100
45) 1,2-Dichloropropane	9.12	63	171296	20.776	ug/l	97
46) Dibromomethane	9.21	93	124547	19.818	ug/l	99
47) Bromodichloromethane	9.40	83	250874	19.917	ug/l	98
48) Methyl methacrylate	9.20	41	94712	19.223	ug/l	98
49) 1,4-Dioxane	9.20	88	31805	339.851	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	527691	92.872	ug/l	99
52) Toluene	10.16	92	484731	20.322	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	219557	18.394	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	261768	19.667	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	175836	20.119	ug/l	98
56) Ethyl methacrylate	10.43	69	178199	18.238	ug/l	98
57) 1,3-Dichloropropane	10.71	76	262639	19.737	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	382276	86.807	ug/l	99
59) 2-Hexanone	10.75	43	336311	88.273	ug/l	98
60) Dibromochloromethane	10.90	129	196087	18.103	ug/l	98
61) 1,2-Dibromoethane	11.01	107	174324	19.017	ug/l	99
64) Tetrachloroethene	10.63	164	234610	21.131	ug/l	97
65) Chlorobenzene	11.43	112	555190	20.076	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	208913	20.295	ug/l	99
67) Ethyl Benzene	11.51	91	917526	20.253	ug/l	100
68) m/p-Xylenes	11.62	106	736518	40.489	ug/l	98
69) o-Xylene	11.95	106	365108	20.596	ug/l	99
70) Styrene	11.96	104	539818	19.796	ug/l	99
71) Bromoform	12.13	173	117278	17.398	ug/l #	99
73) Isopropylbenzene	12.25	105	956356	20.305	ug/l	99
74) N-amyl acetate	12.07	43	142174	17.556	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	188034	19.754	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	156162m	21.117	ug/l	
77) Bromobenzene	12.53	156	236835	19.761	ug/l	99
78) n-propylbenzene	12.59	91	1024952	20.904	ug/l	97
79) 2-Chlorotoluene	12.67	91	606110	21.818	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	793934	20.854	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	35630	15.991	ug/l	86
82) 4-Chlorotoluene	12.77	91	587828	20.516	ug/l	99
83) tert-Butylbenzene	12.99	119	731191	20.438	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	785917	20.996	ug/l	99
85) sec-Butylbenzene	13.17	105	955730	21.013	ug/l	99
86) p-Isopropyltoluene	13.29	119	838978	21.283	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	405822	20.090	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	383121	19.298	ug/l	98
89) n-Butylbenzene	13.61	91	619863	21.677	ug/l	99
90) Hexachloroethane	13.87	117	134771	20.441	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	402055	20.552	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22520	17.660	ug/l	95

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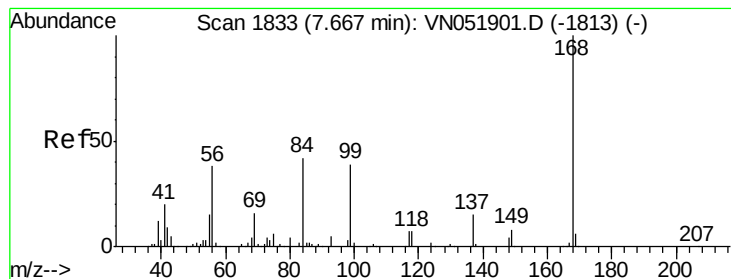
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	144640	17.536	ug/l	98
94) Hexachlorobutadiene	15.01	225	134011	21.633	ug/l	98
95) Naphthalene	15.13	128	256828	15.907	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	149252	17.733	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion:168 Resp: 1080370

Ion Ratio Lower Upper

168 100

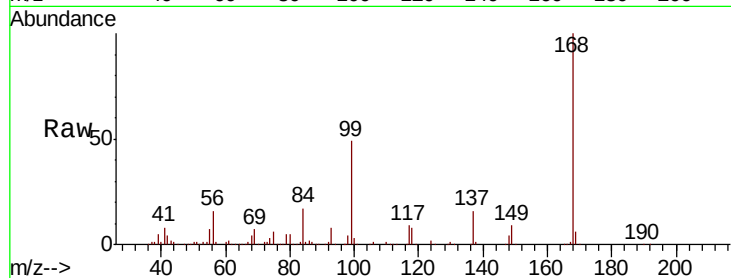
99 48.5 39.2 58.8

Manual Integrations

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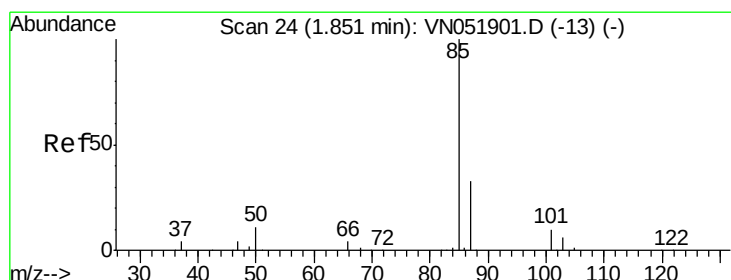
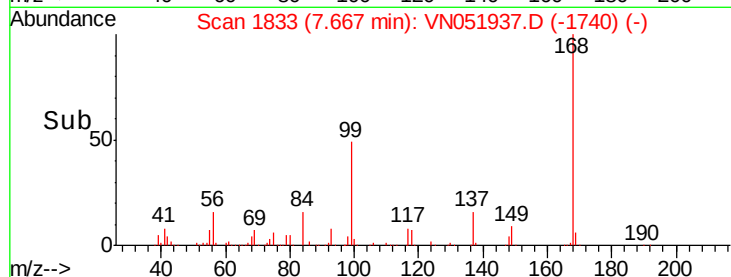
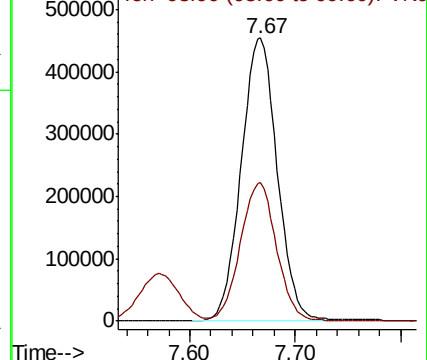
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 18.303 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051937.D

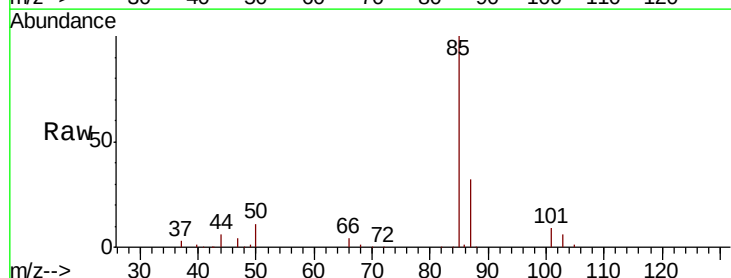
Acq: 19 Oct 2018 10:27

Tgt Ion: 85 Resp: 119645

Ion Ratio Lower Upper

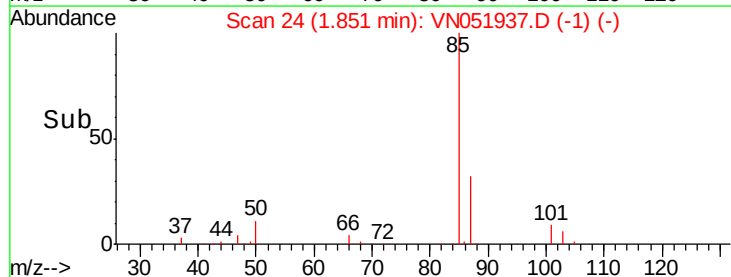
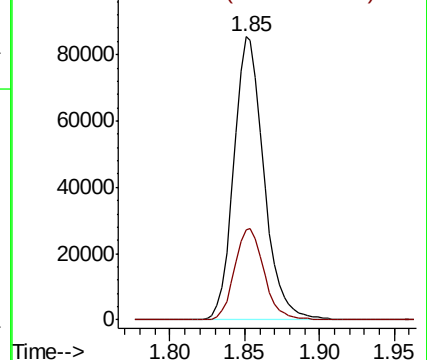
85 100

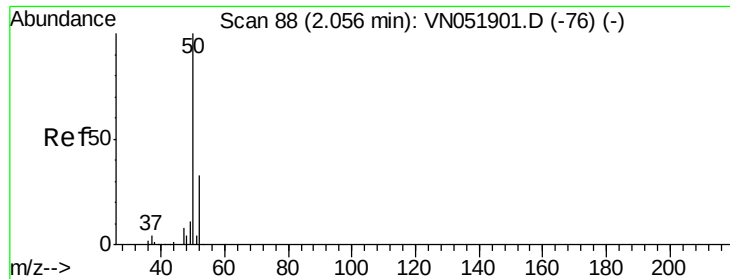
87 31.8 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 18.483 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 50 Resp: 118052

Ion Ratio Lower Upper

50 100

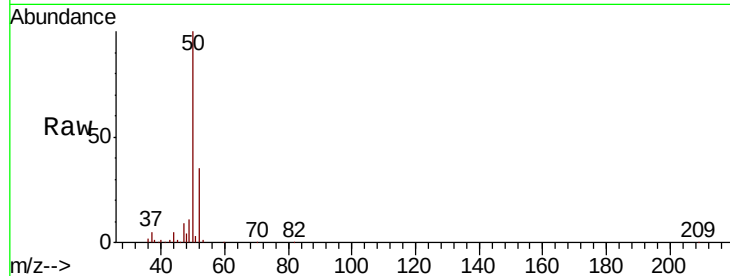
52 35.1 26.3 39.5

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

100000

80000

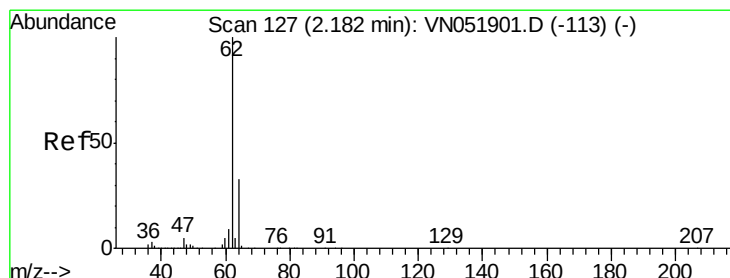
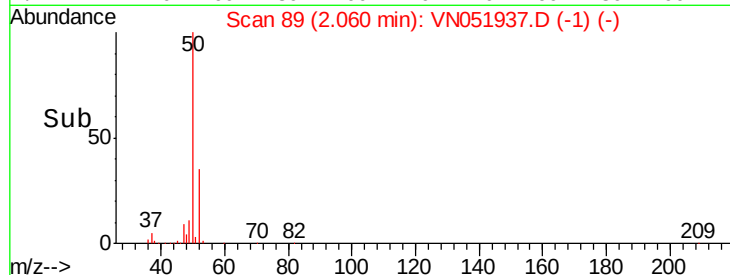
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 18.606 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051937.D

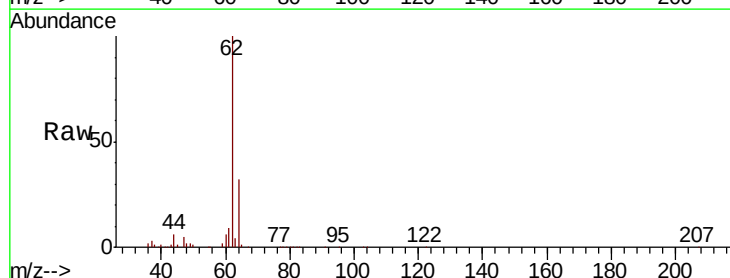
Acq: 19 Oct 2018 10:27

Tgt Ion: 62 Resp: 179494

Ion Ratio Lower Upper

62 100

64 32.4 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

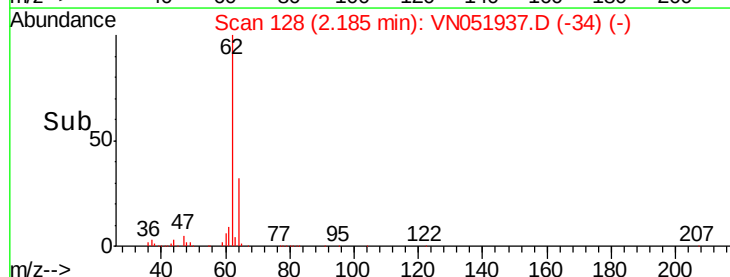
2.19

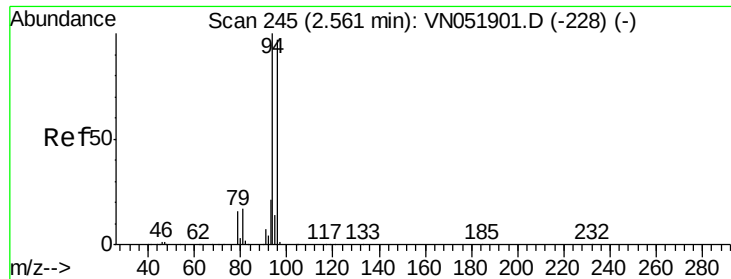
100000

50000

0

Time-->





#5

Bromomethane

Concen: 19.641 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.01 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 94 Resp: 164595

Ion Ratio Lower Upper

94 100

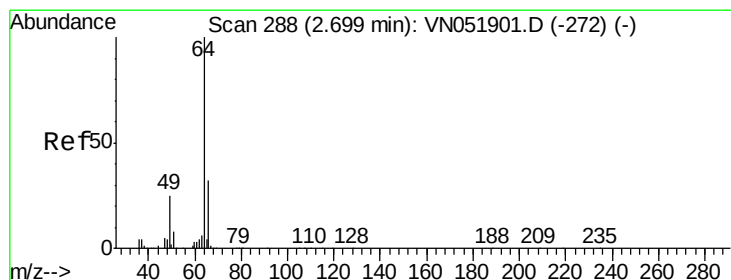
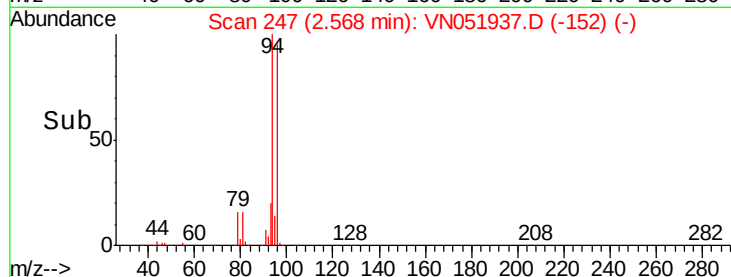
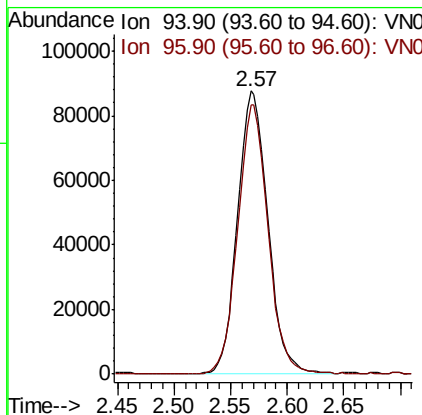
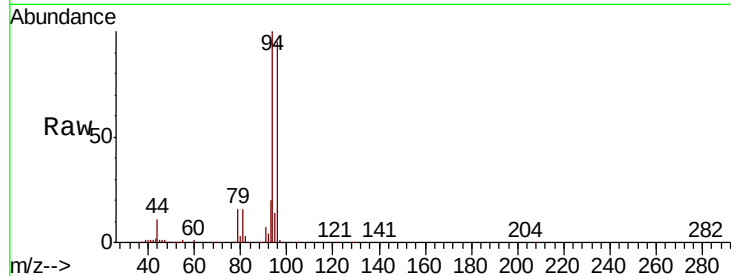
96 94.8 77.5 116.3

Manual Integrations

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#6

Chloroethane

Concen: 19.972 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN051937.D

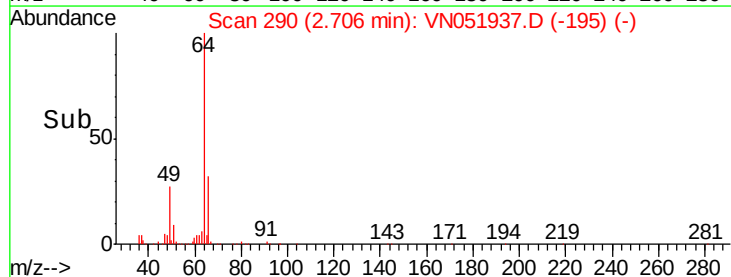
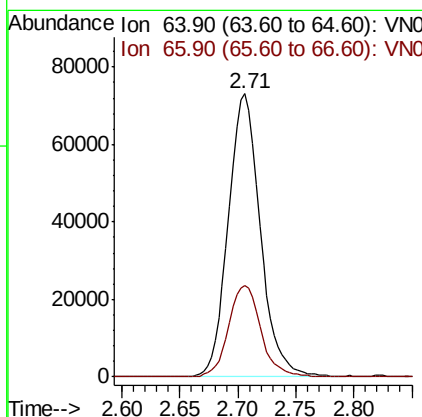
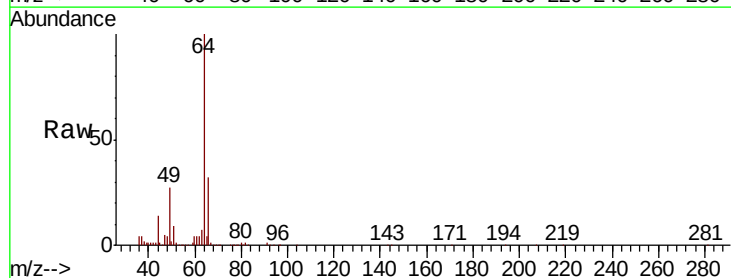
Acq: 19 Oct 2018 10:27

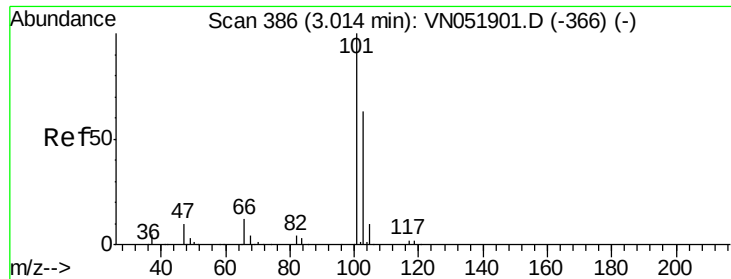
Tgt Ion: 64 Resp: 139825

Ion Ratio Lower Upper

64 100

66 32.2 25.9 38.9





#7

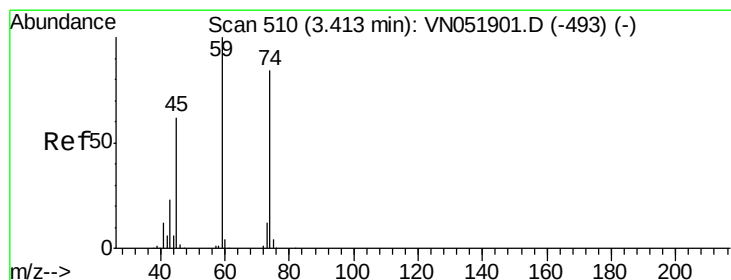
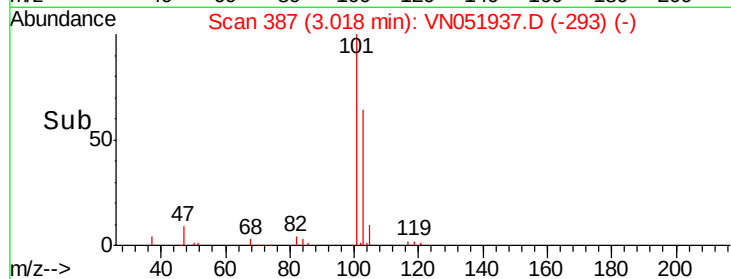
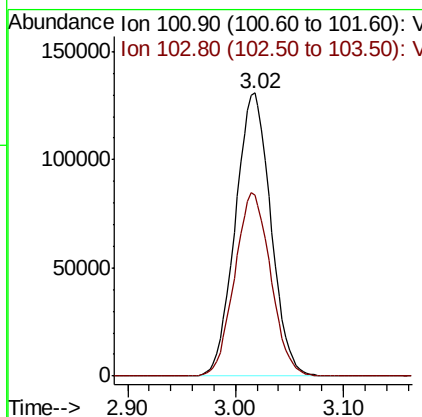
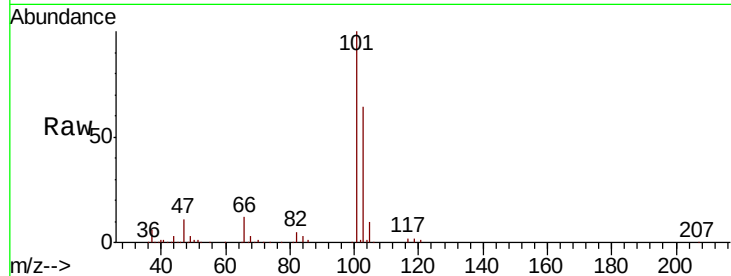
Trichlorofluoromethane
 Concen: 20.153 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
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 ClientSampleId :
 VN1019WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	50.8	76.2

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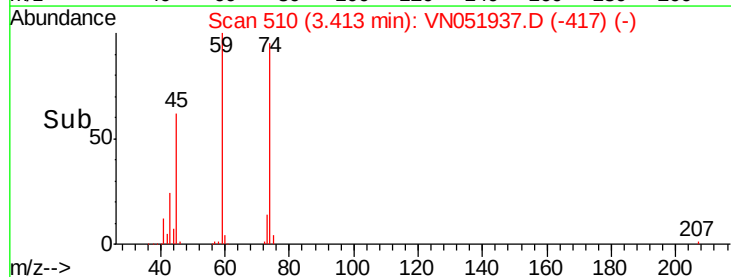
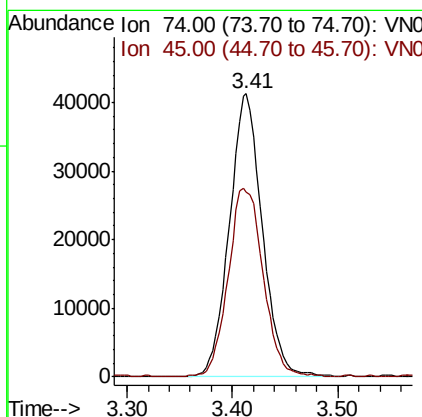
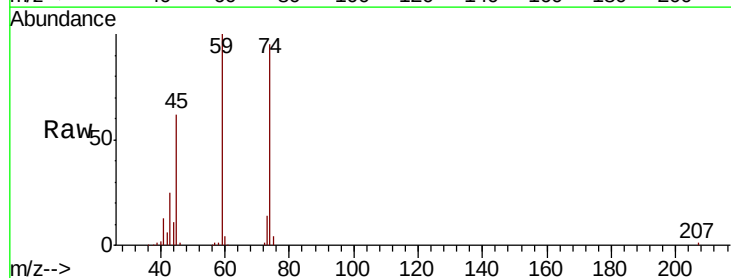
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 10/22/2018 11:35:21 AM

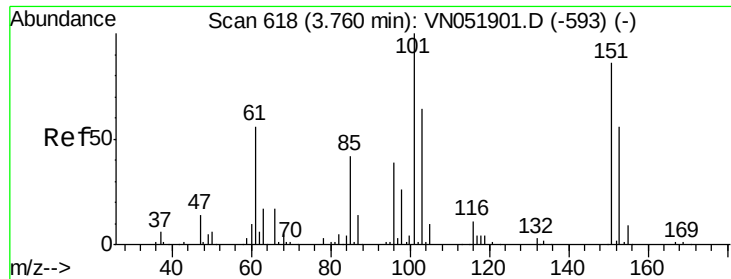


#8

Diethyl Ether
 Concen: 20.512 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
74	100		
45	70.9	36.8	110.3





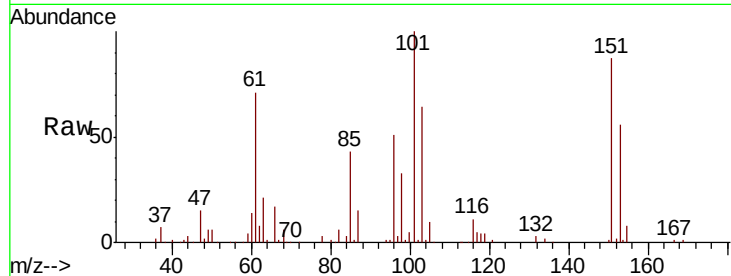
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.746 ug/l
RT: 3.76 min Scan# 617
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
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VN1019WBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	176959		
85	44.0		34.8	52.2
151	87.7		68.0	102.0

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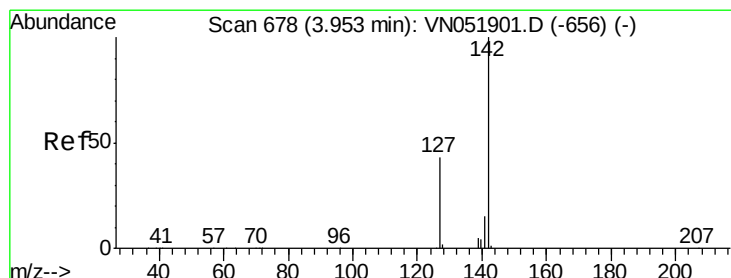
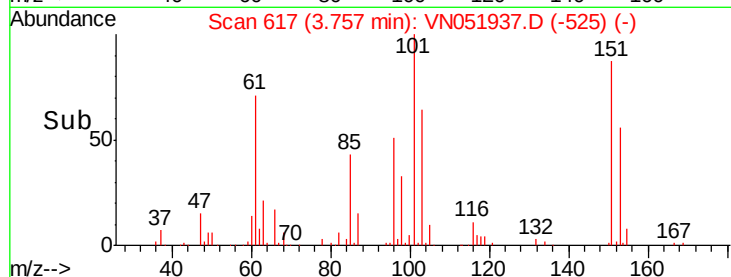
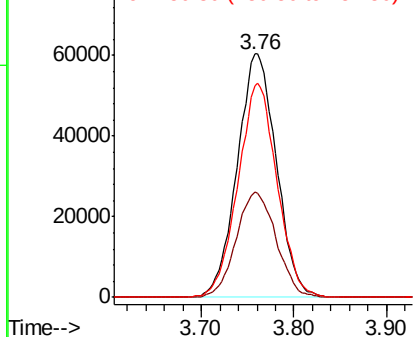


Abundance

Ion 100.90 (100.60 to 101.60): V

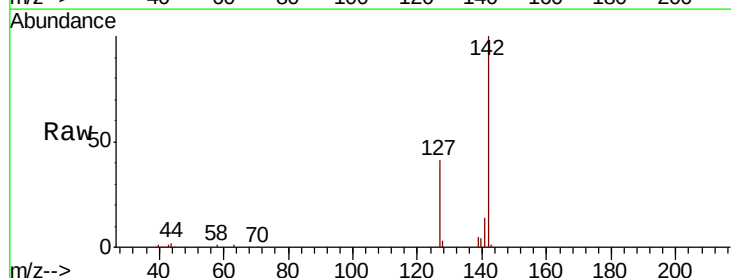
Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10
Methyl Iodide
Concen: 20.381 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	205523		
127	43.1		34.3	51.5
141	14.4		11.1	16.7

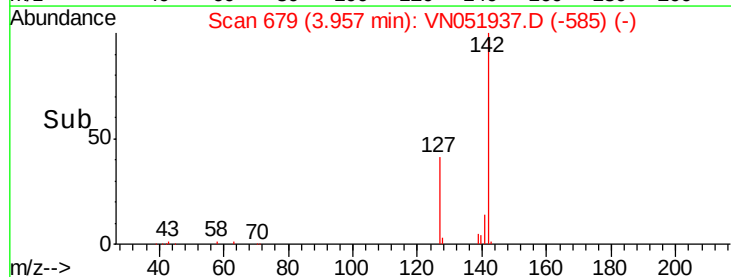
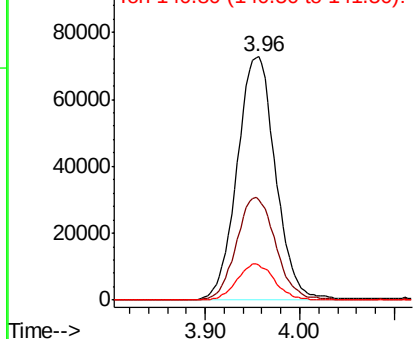


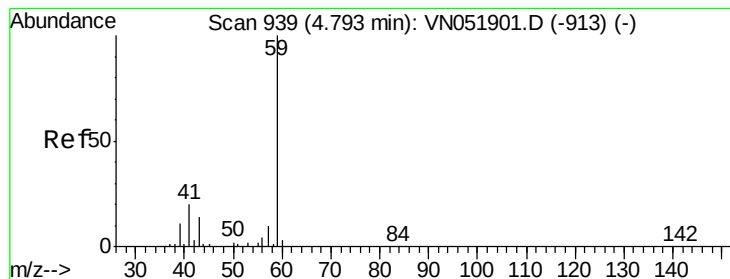
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

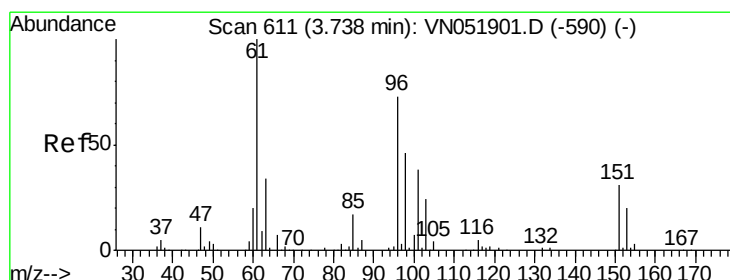
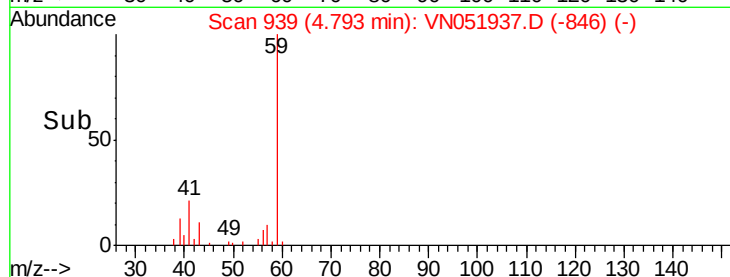
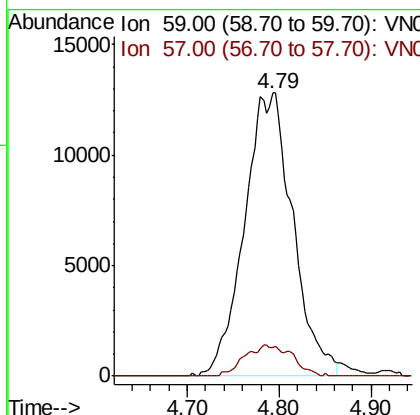
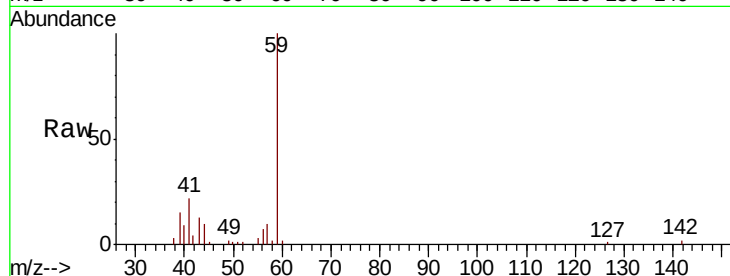
Tert butyl alcohol
 Concen: 80.194 ug/l m
 RT: 4.79 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#

Manual Integrations
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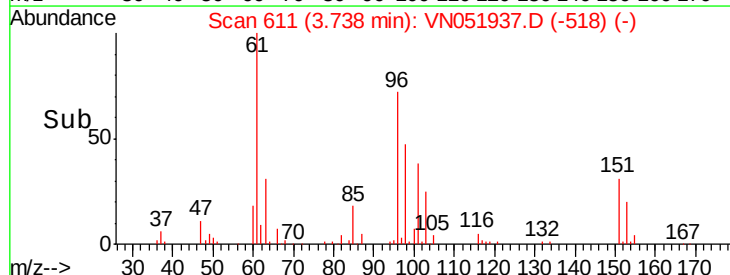
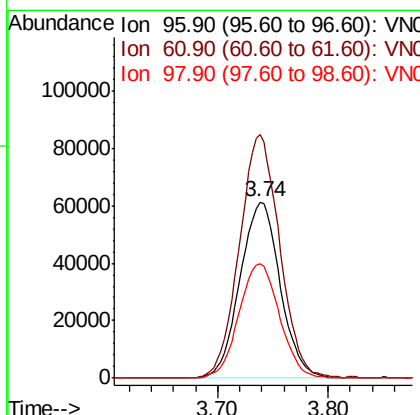
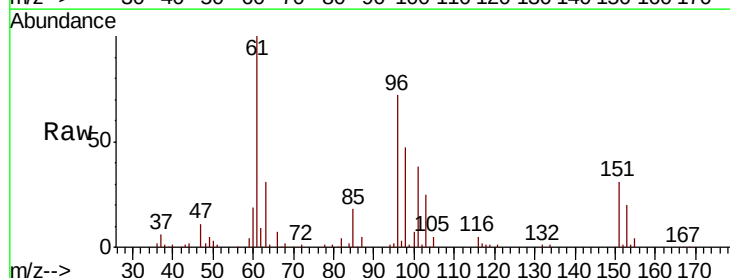
MMDadoda
 10/22/2018 11:35:21 AM

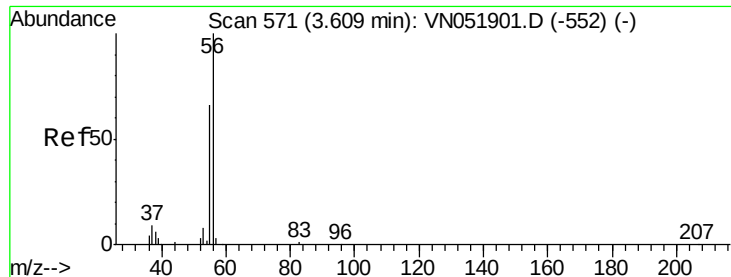


#12

1,1-Dichloroethene
 Concen: 19.925 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	138.1	109.8	164.6
98	64.7	50.9	76.3





#13

Acrolein

Concen: 60.139 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 56 Resp: 31391

Ion Ratio Lower Upper

56 100

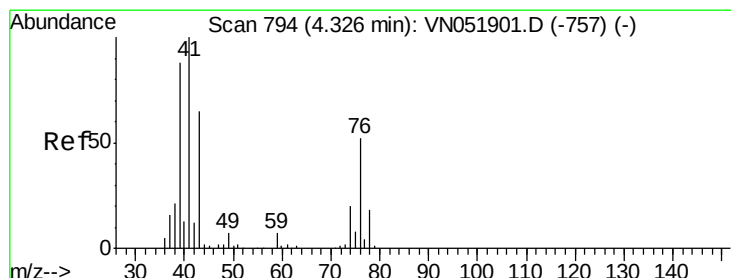
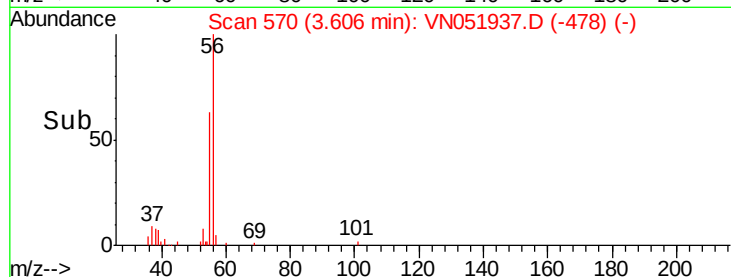
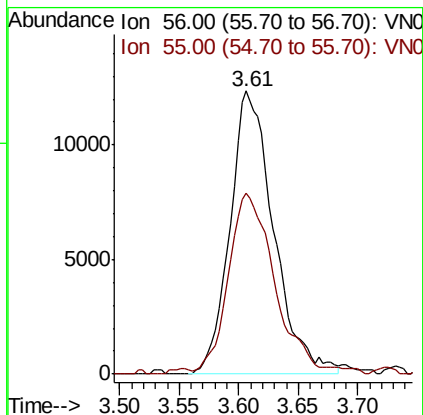
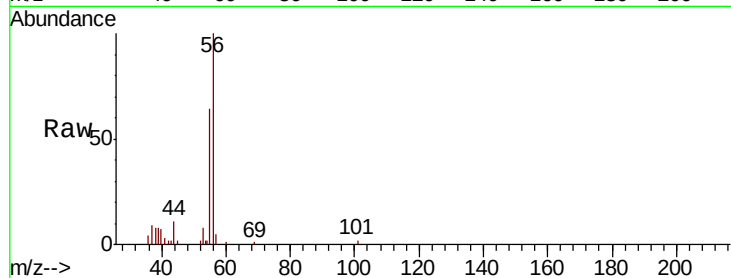
55 65.1 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 19.036 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

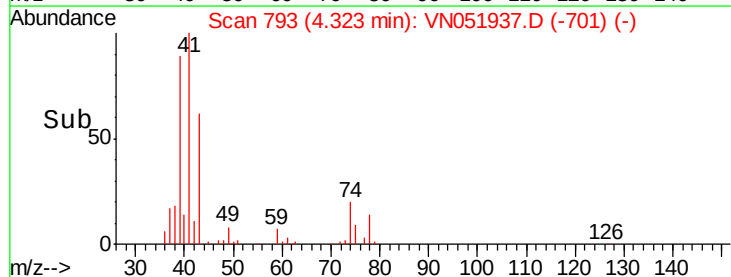
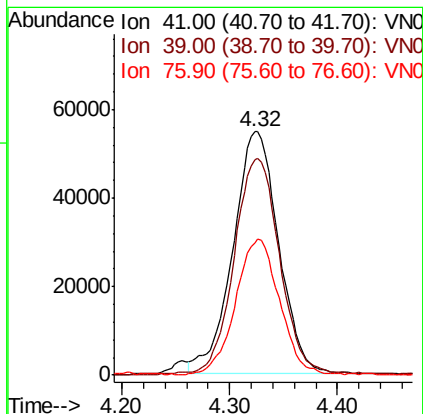
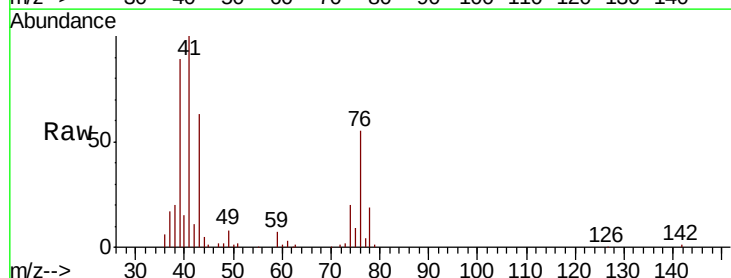
Tgt Ion: 41 Resp: 160302

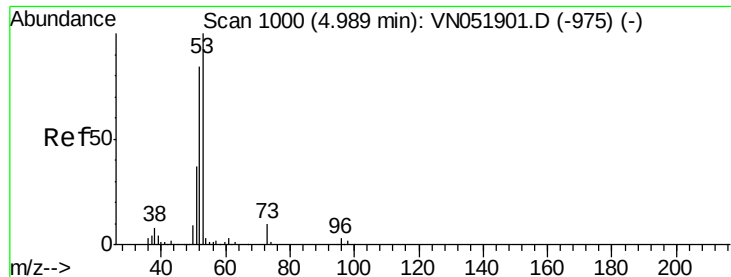
Ion Ratio Lower Upper

41 100

39 90.6 65.4 98.0

76 54.7 39.6 59.4





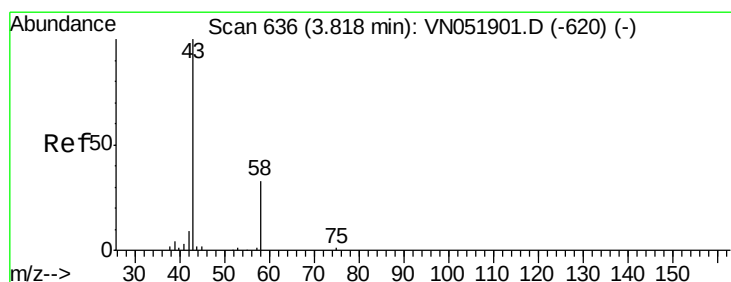
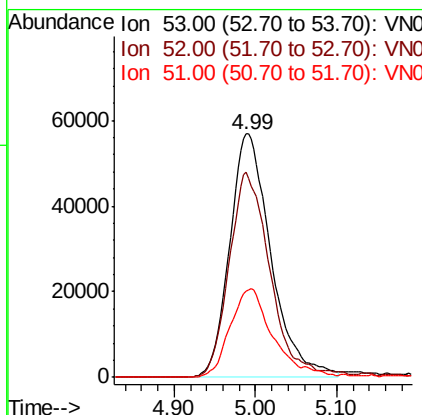
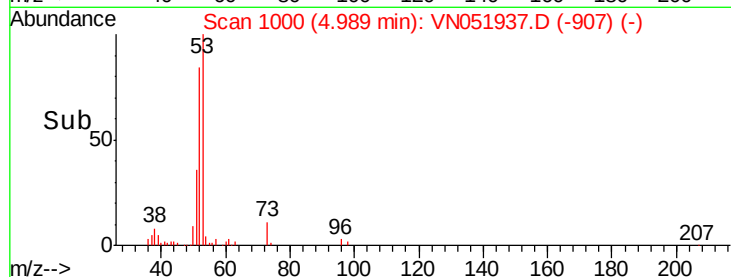
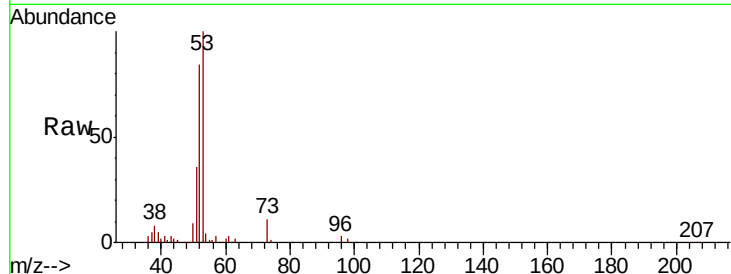
#15
 Acrylonitrile
 Concen: 93.774 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.8	98.8
51	35.9	29.4	44.2

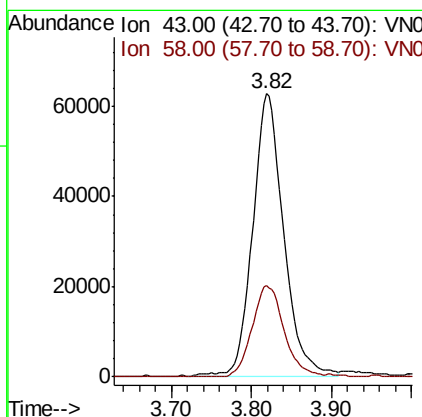
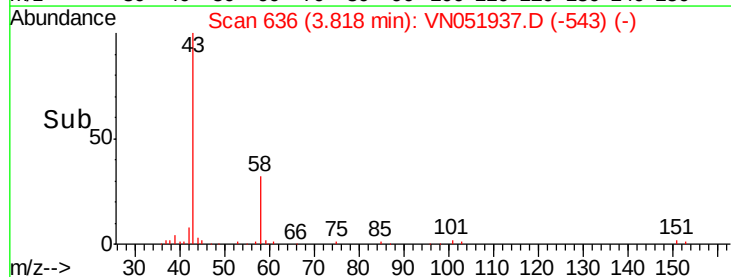
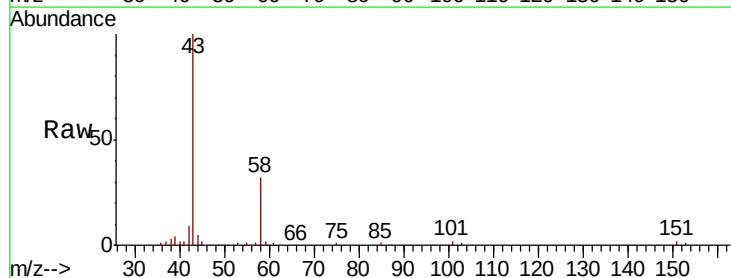
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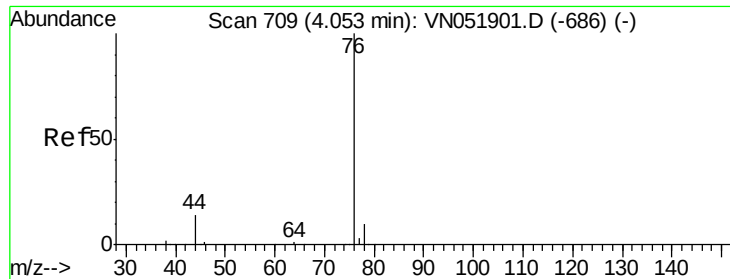
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#16
 Acetone
 Concen: 93.196 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.4	25.9	38.9





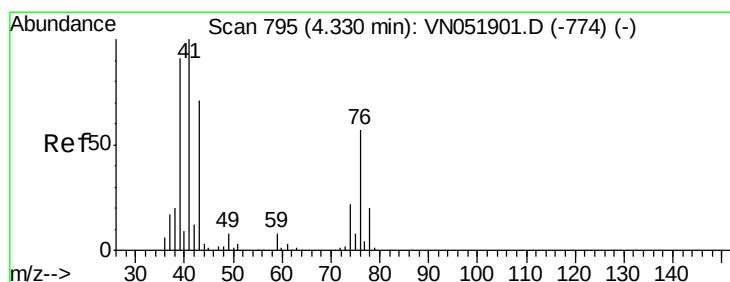
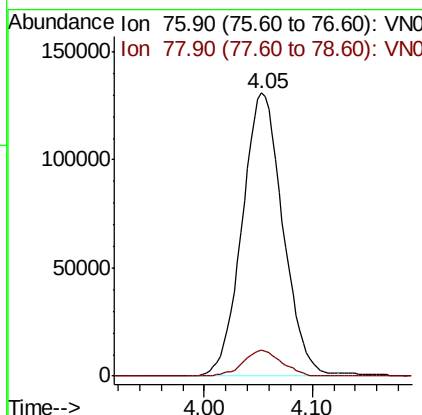
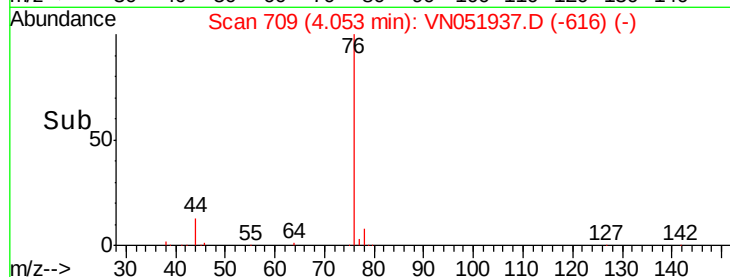
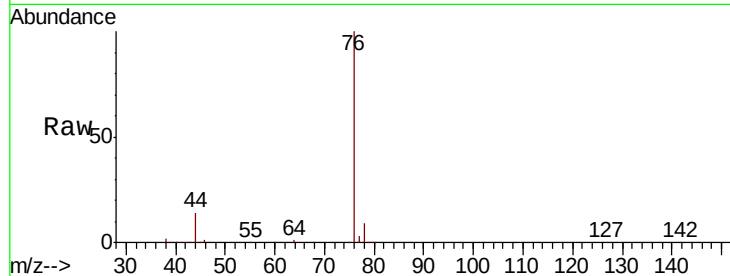
#17
Carbon Disulfide
Concen: 17.731 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.6	11.4

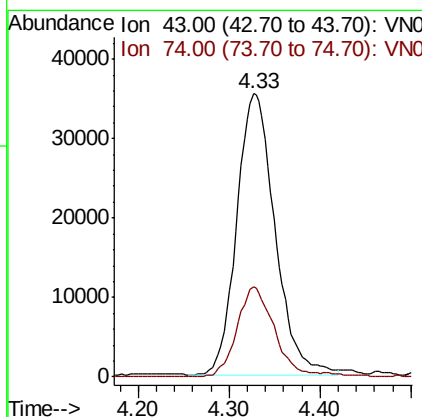
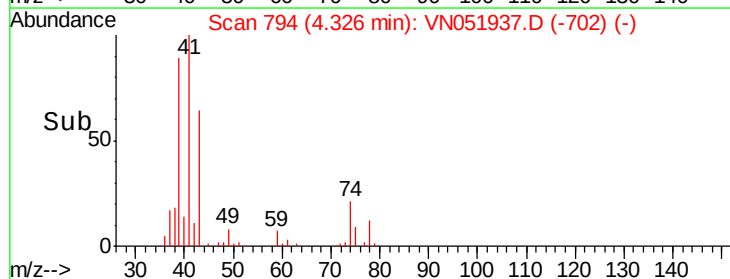
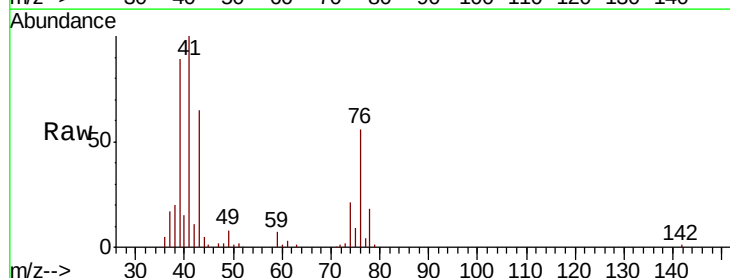
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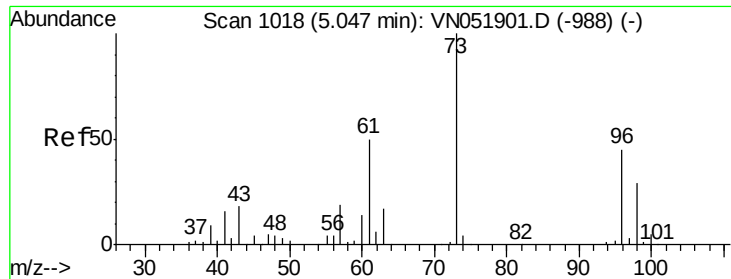
MMDadoda
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#18
Methyl Acetate
Concen: 17.789 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
43	100		
74	31.1	24.9	37.3





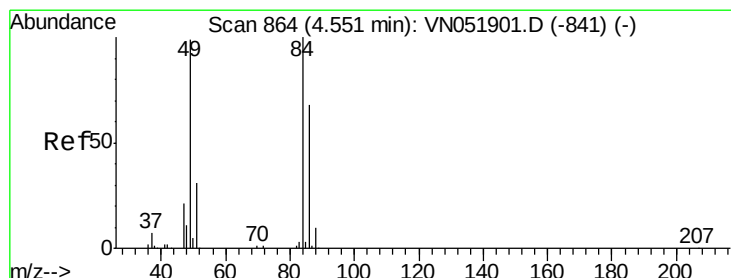
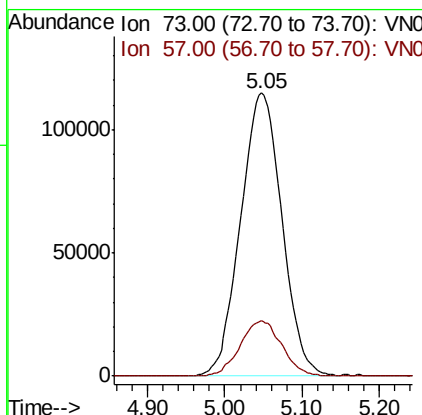
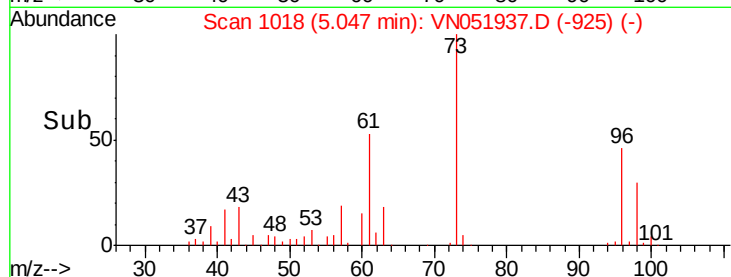
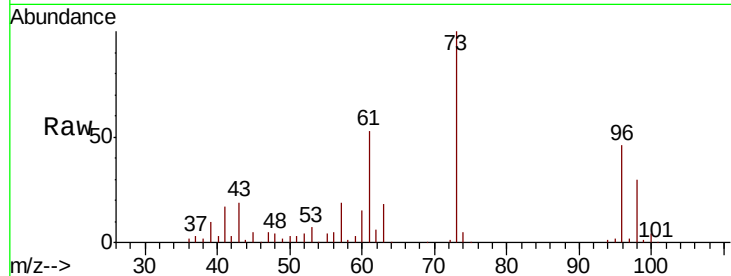
#19
Methyl tert-butyl Ether
Concen: 19.107 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.5	15.3	22.9

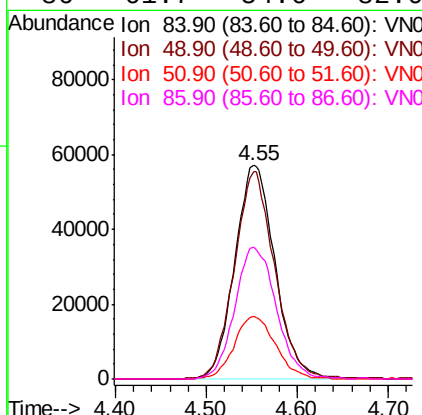
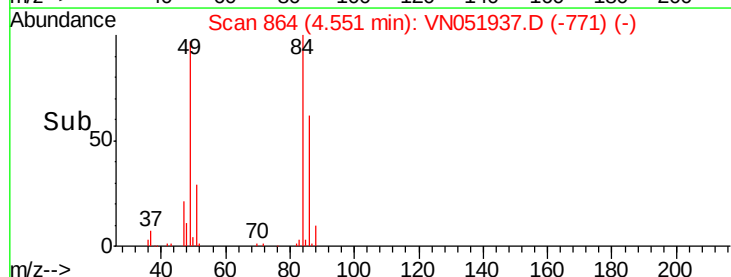
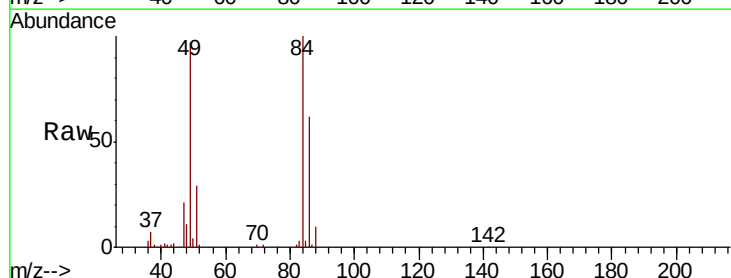
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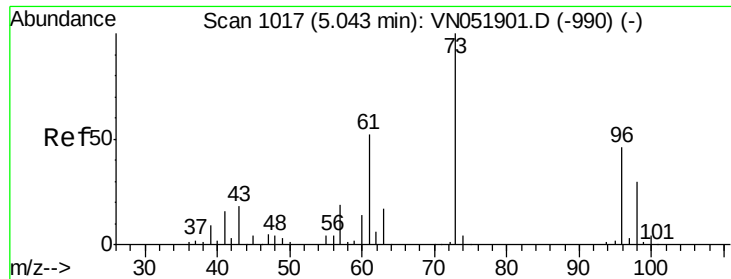
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#20
Methylene Chloride
Concen: 19.453 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
84	100		
49	96.6	79.0	118.4
51	29.3	24.9	37.3
86	61.7	54.6	82.0





#21

trans-1,2-Dichloroethene

Concen: 19.426 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 96 Resp: 173584

Ion Ratio Lower Upper

96 100

61 114.4 89.8 134.6

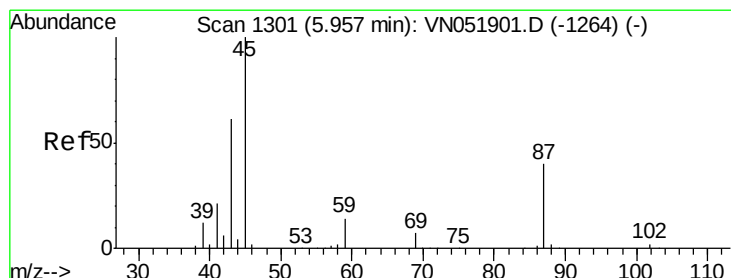
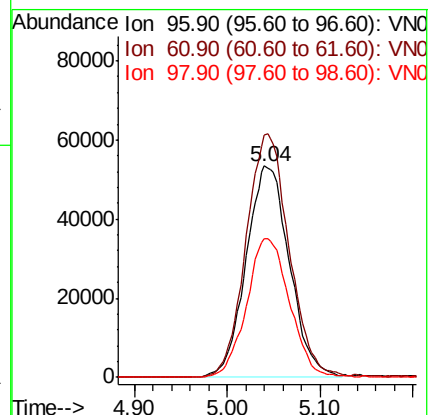
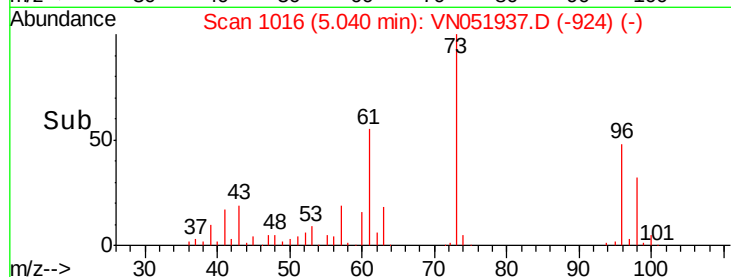
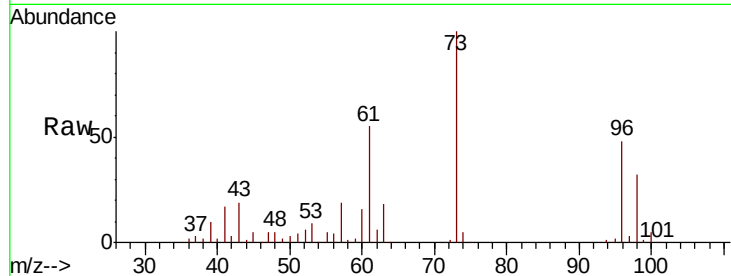
98 65.4 51.7 77.5

Manual Integrations

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#22

Diisopropyl ether

Concen: 20.089 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.01 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Tgt Ion: 45 Resp: 394271

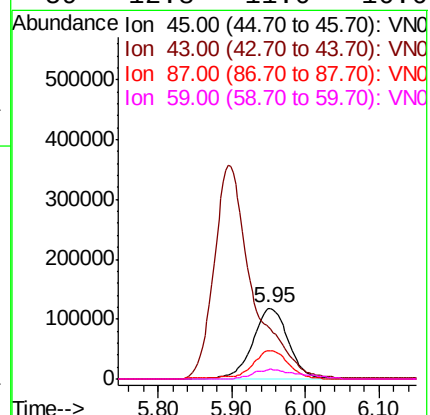
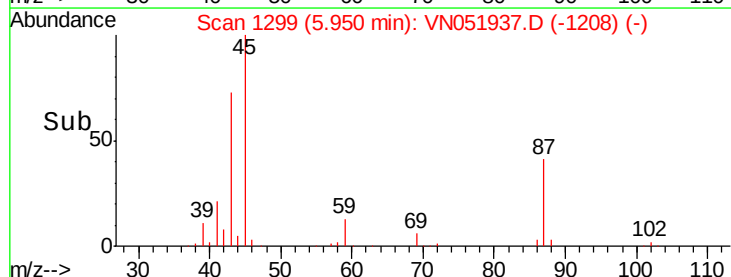
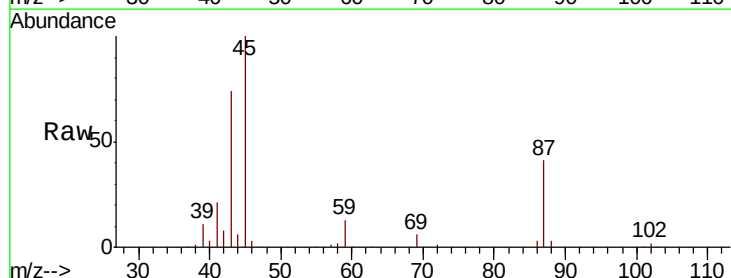
Ion Ratio Lower Upper

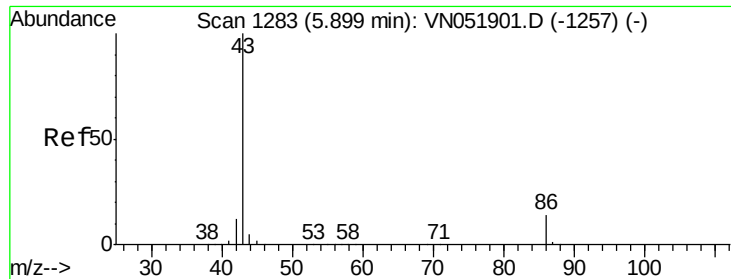
45 100

43 71.4 48.9 73.3

87 40.4 32.6 48.8

59 12.8 11.0 16.6





#23

Vinyl Acetate

Concen: 95.674 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 43 Resp: 1292734

Ion Ratio Lower Upper

43 100

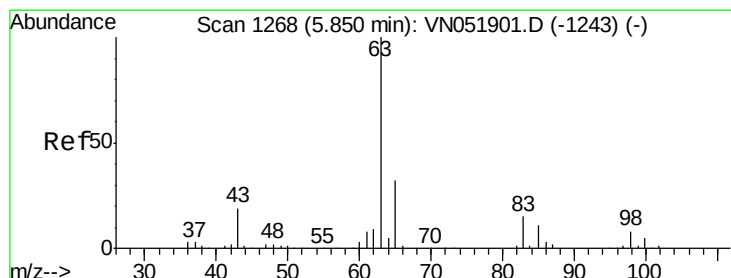
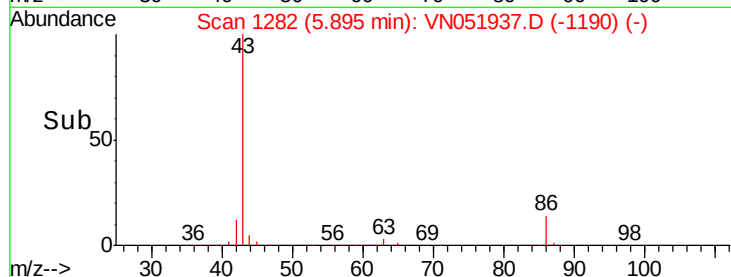
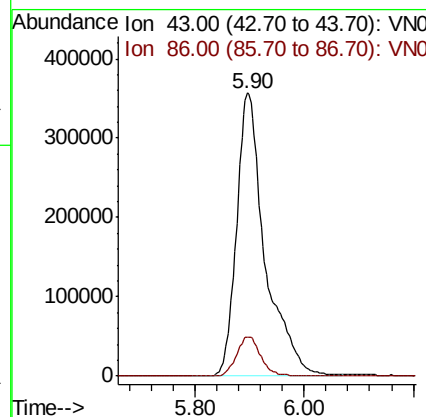
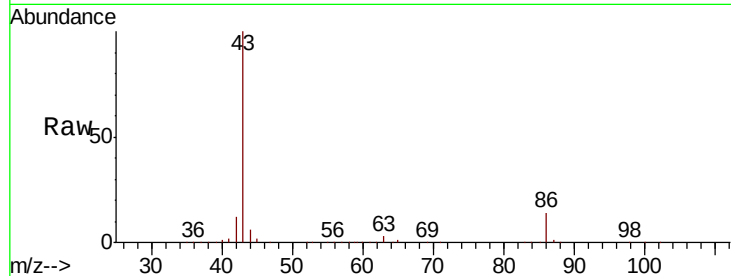
86 13.8 11.5 17.3

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 20.107 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

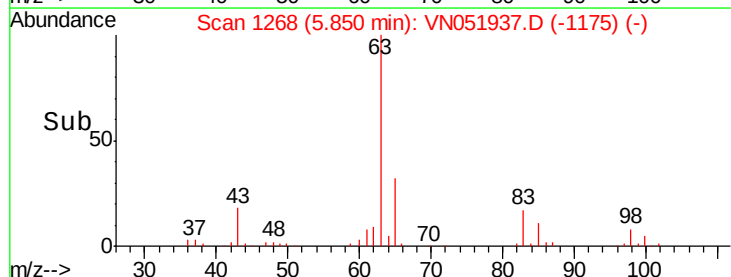
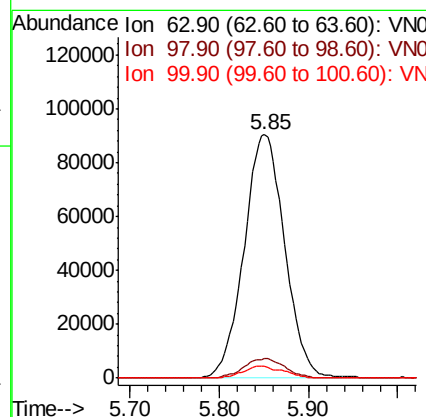
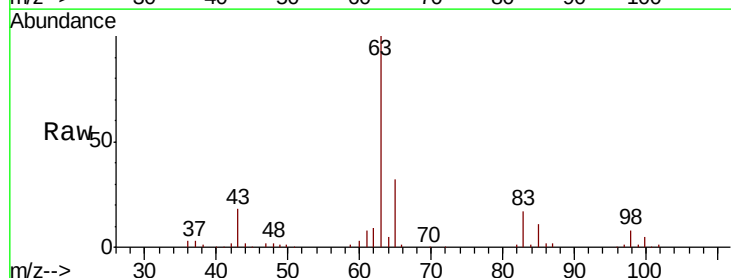
Tgt Ion: 63 Resp: 285779

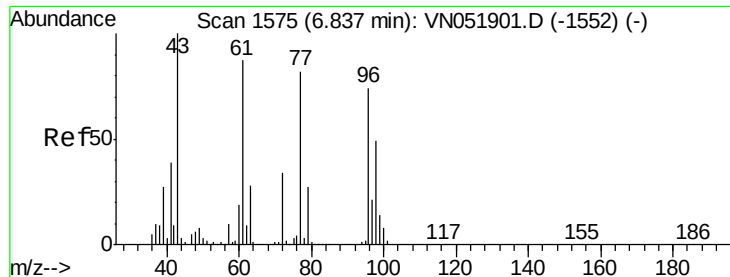
Ion Ratio Lower Upper

63 100

98 8.1 4.0 12.0

100 5.0 2.4 7.1





#25

2-Butanone

Concen: 93.719 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 43 Resp: 237546

Ion Ratio Lower Upper

43 100

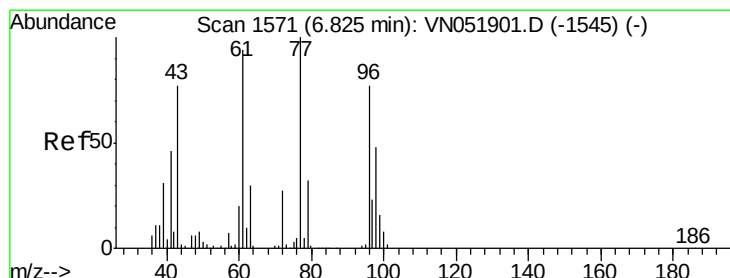
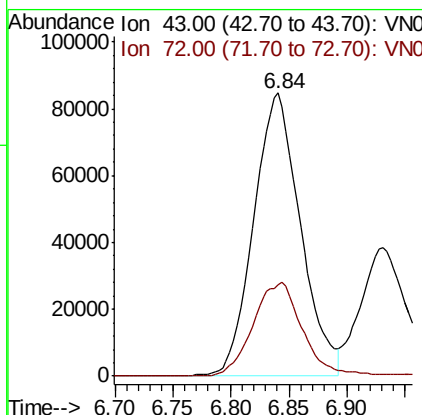
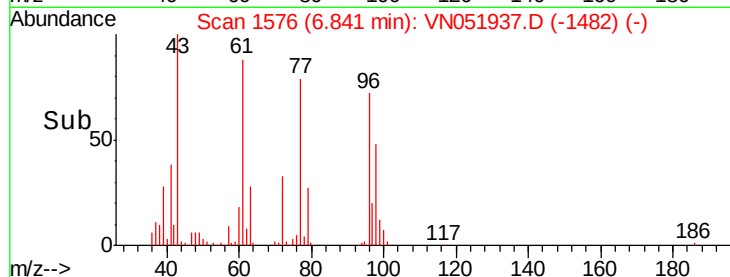
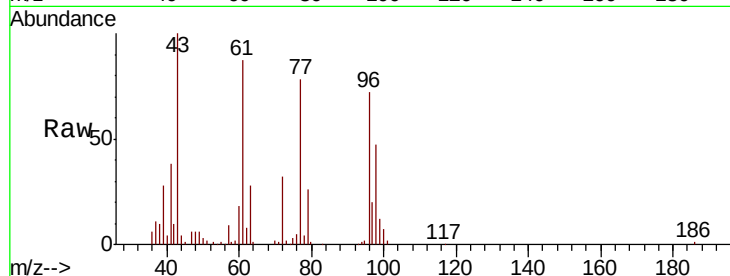
72 32.5 27.0 40.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 19.968 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051937.D

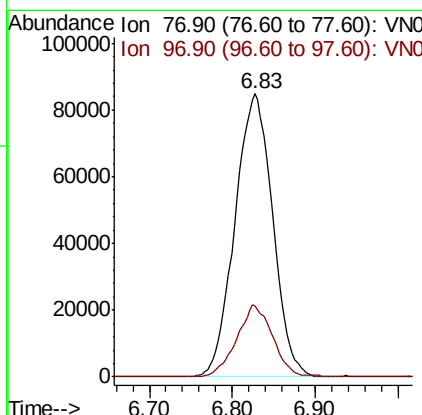
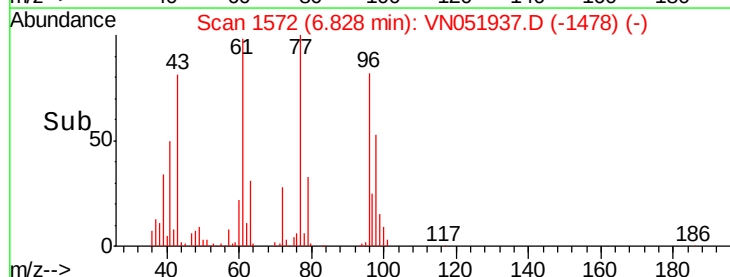
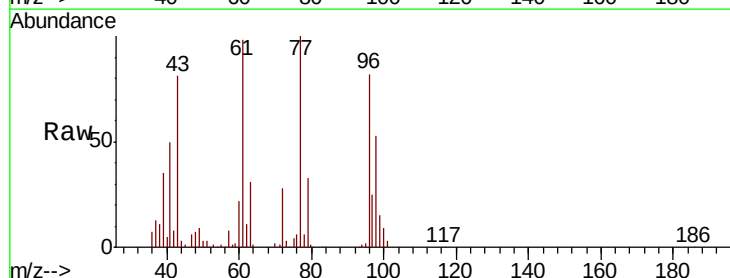
Acq: 19 Oct 2018 10:27

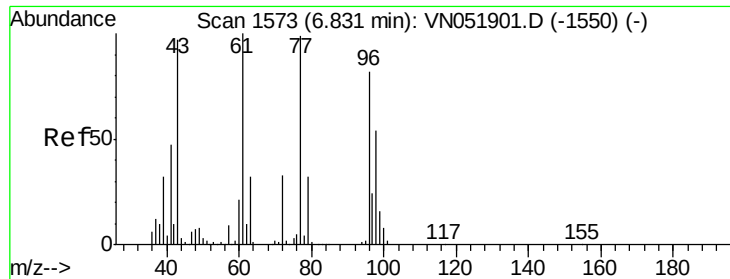
Tgt Ion: 77 Resp: 268415

Ion Ratio Lower Upper

77 100

97 24.2 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 20.016 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

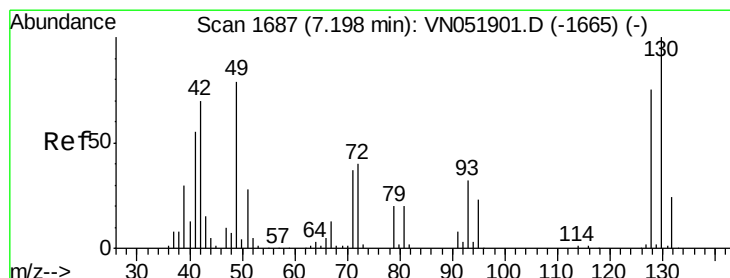
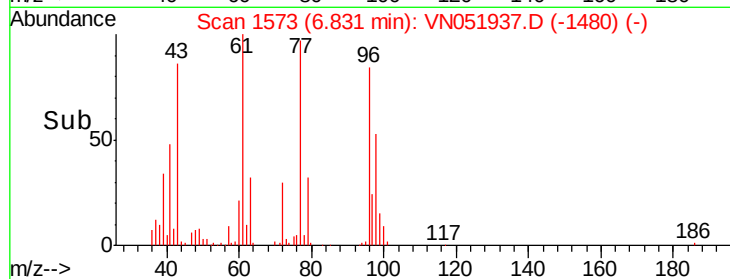
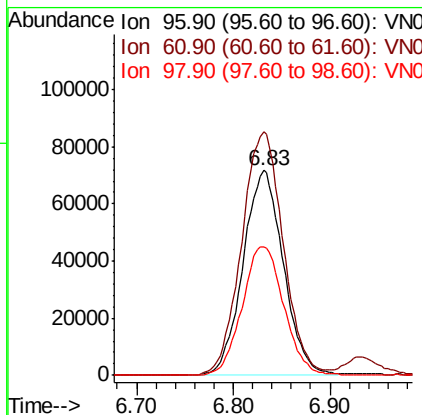
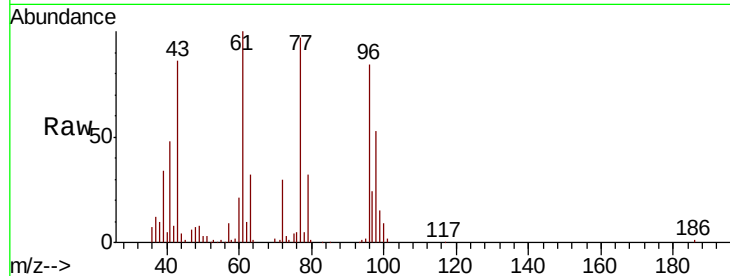
ClientSampleId :

VN1019WBS01

Tot Ion:	96	Resp:	207854
Ion	Ratio	Lower	Upper
96	100		
61	122.4	0.0	240.2
98	65.0	0.0	129.8

Manual Integrations
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#28

Bromochloromethane

Concen: 19.960 ug/l

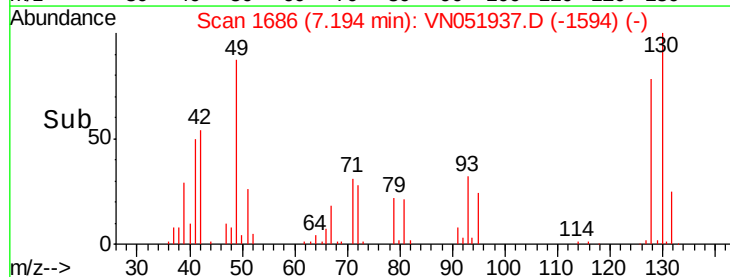
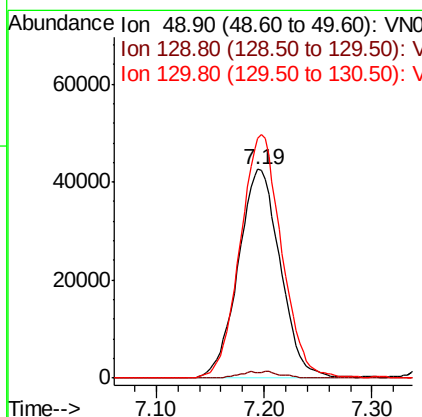
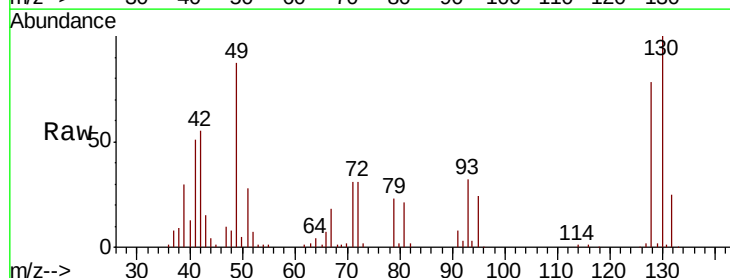
RT: 7.19 min Scan# 1686

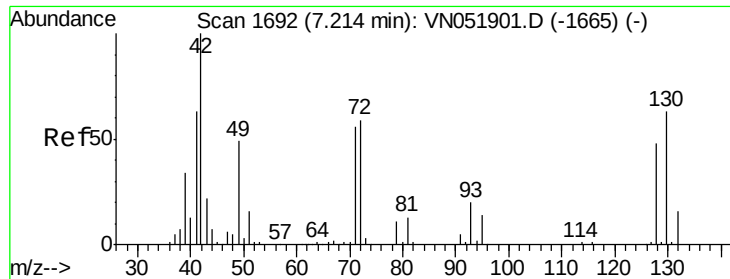
Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Tgt Ion:	49	Resp:	115198
Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	6.0
130	114.9	96.7	145.1





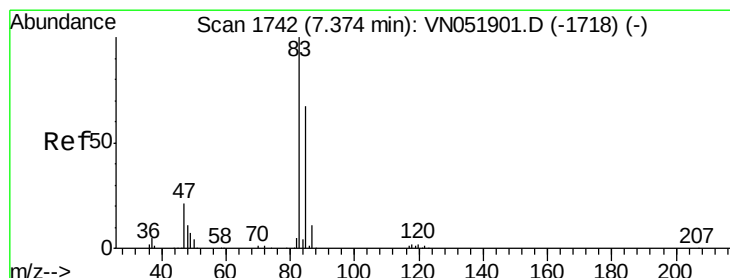
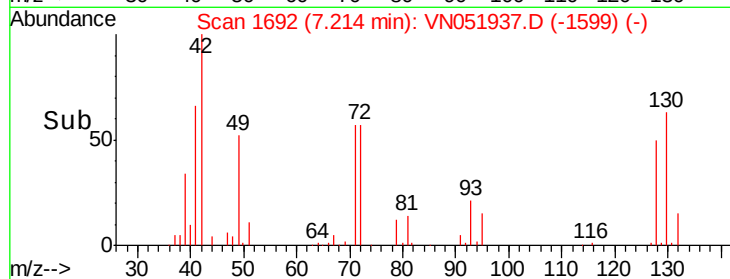
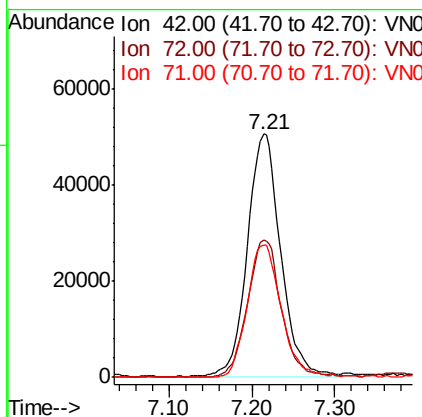
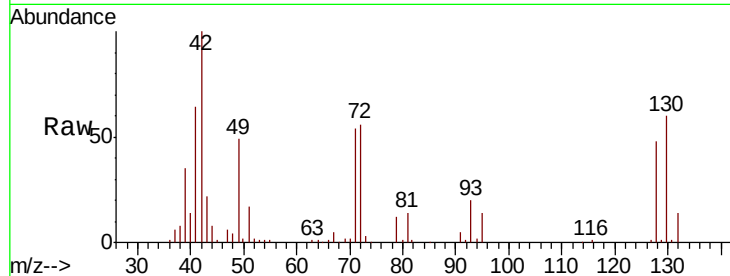
#29
Tetrahydrofuran
Concen: 91.728 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	57.1	47.7	71.5
71	55.2	45.4	68.0

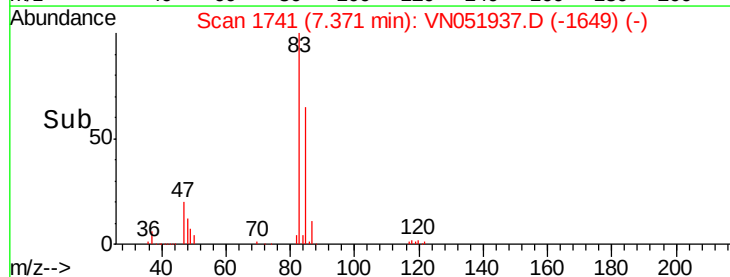
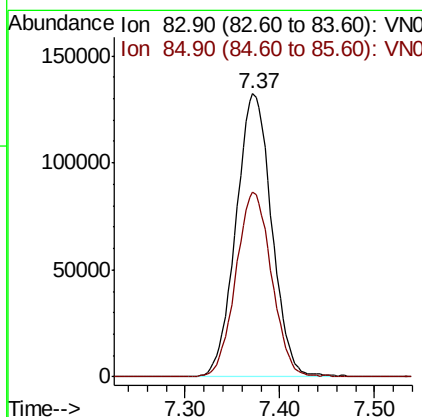
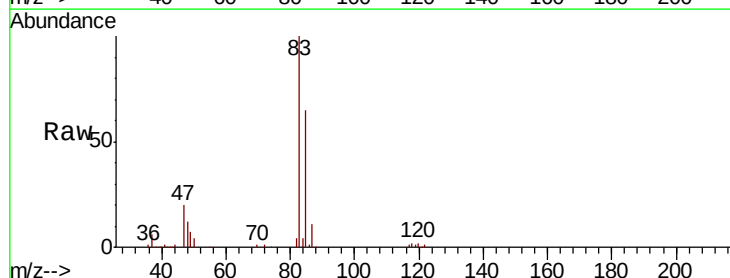
Manual Integrations
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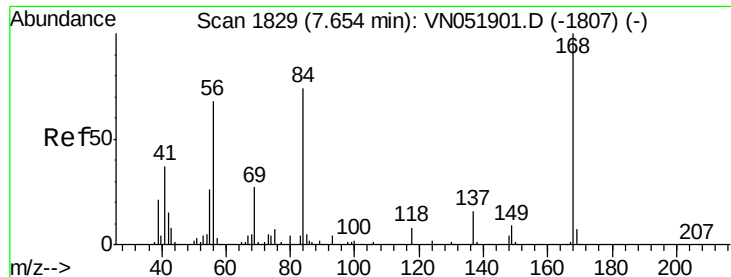
MMDadoda
10/22/2018 11:35:21 AM



#30
Chloroform
Concen: 20.398 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	53.4	80.2





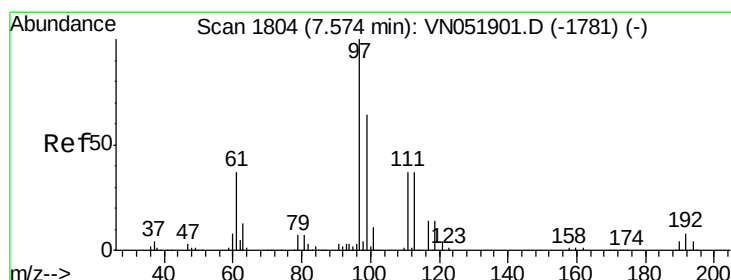
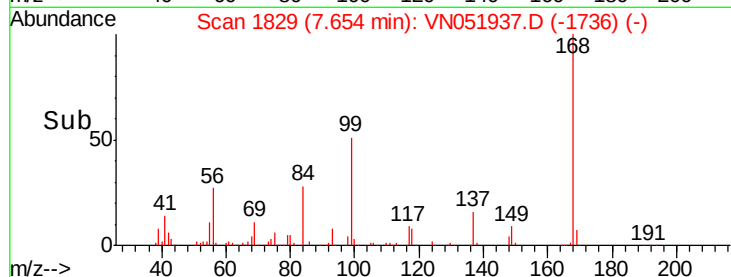
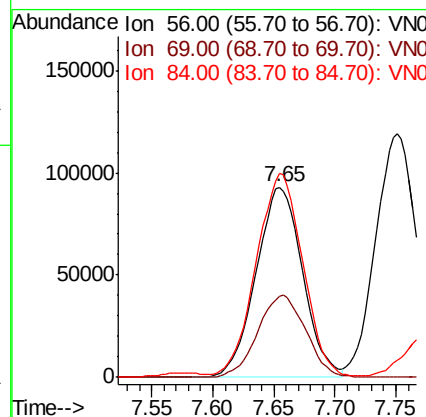
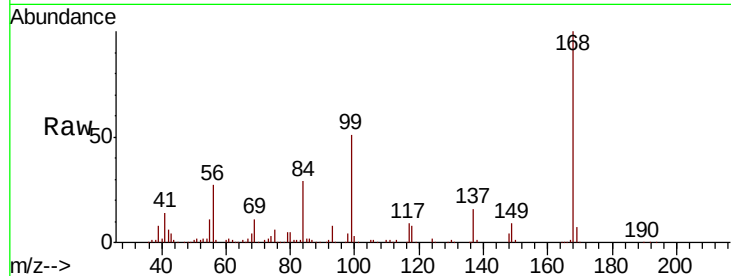
#31
Cyclohexane
Concen: 19.698 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	42.4	31.2	46.8
84	105.6	86.6	130.0

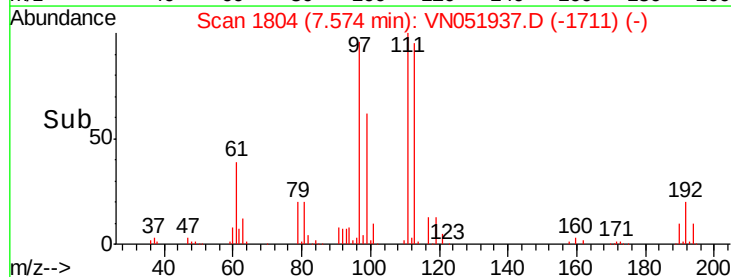
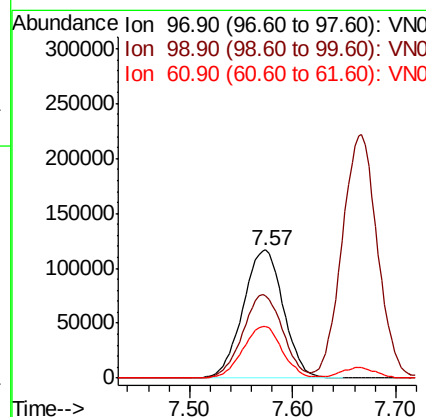
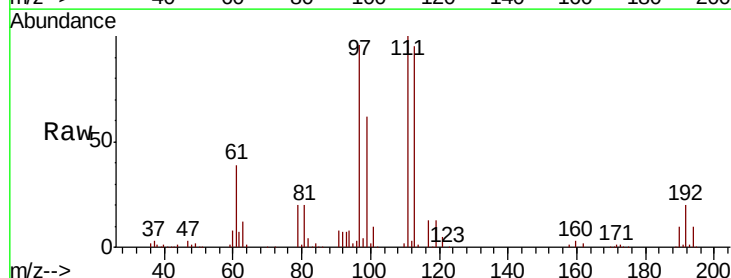
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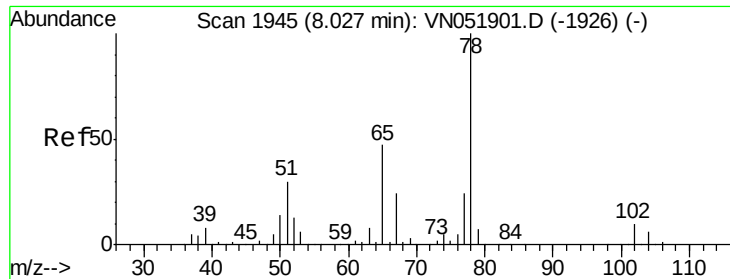
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 20.022 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.3	76.9
61	39.2	29.8	44.6





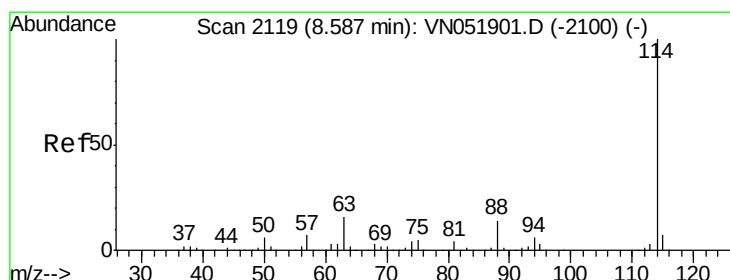
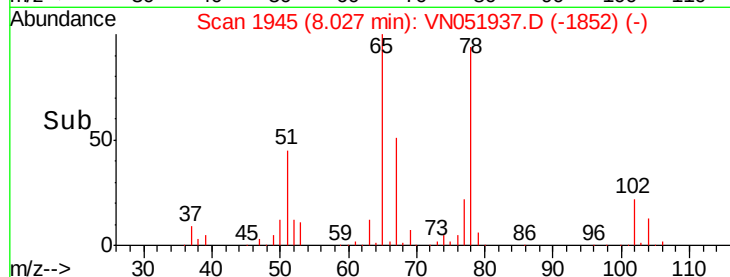
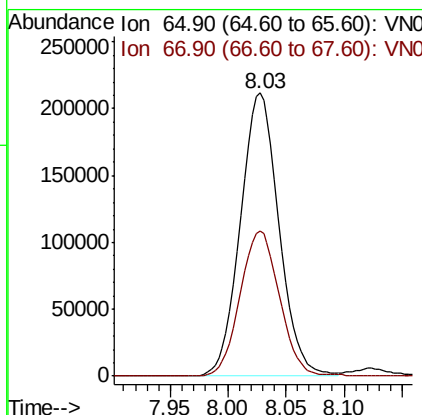
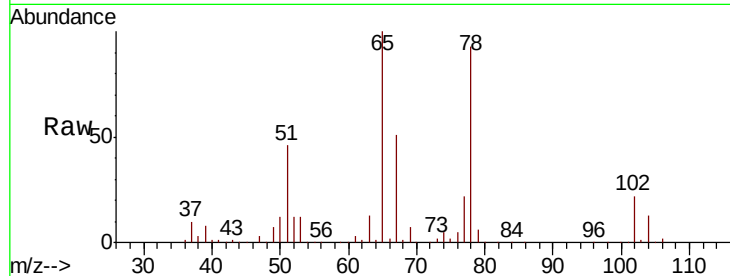
#33
 1,2-Dichloroethane-d4
 Concen: 20.022 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.4	0.0	104.0	

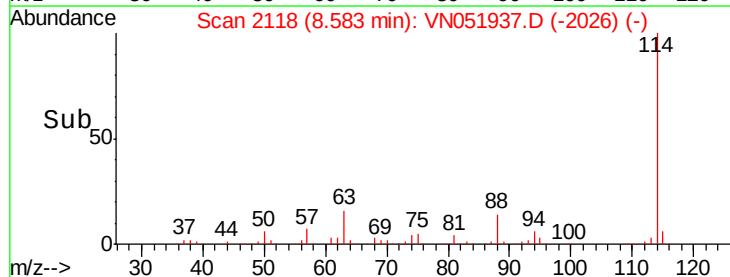
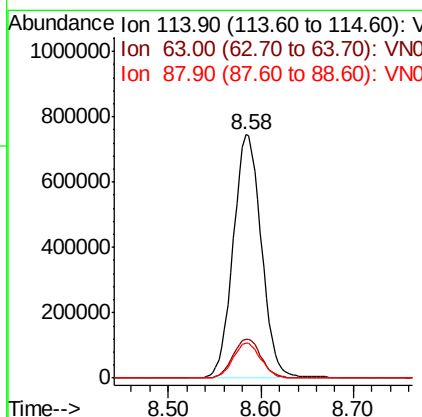
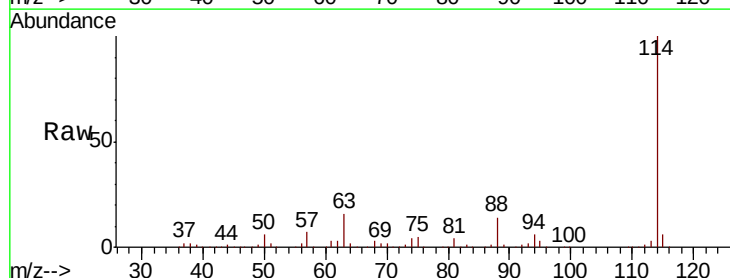
Manual Integrations
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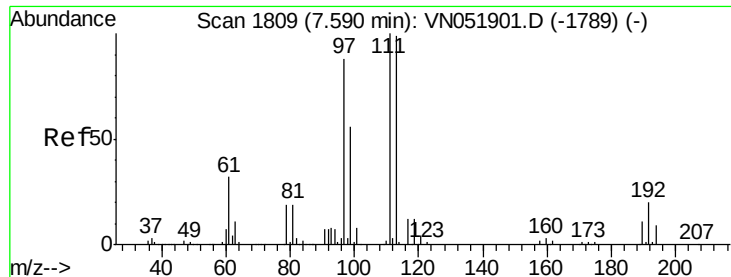
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	15.9	0.0	31.8	
88	14.2	0.0	28.0	





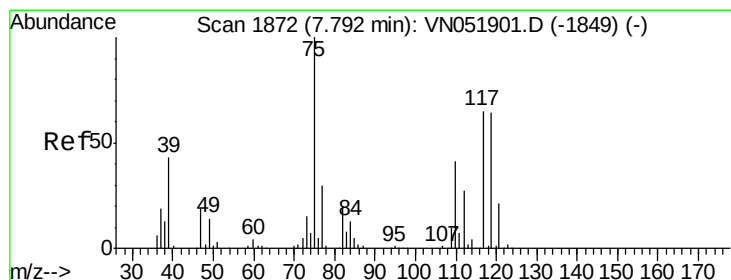
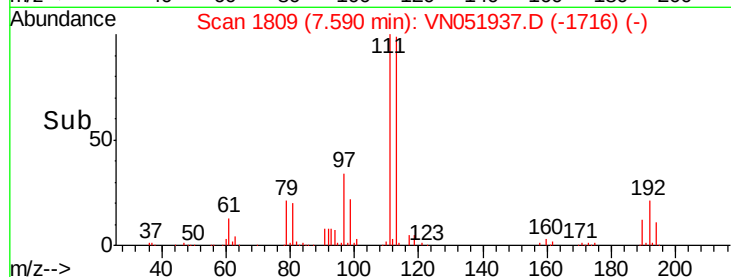
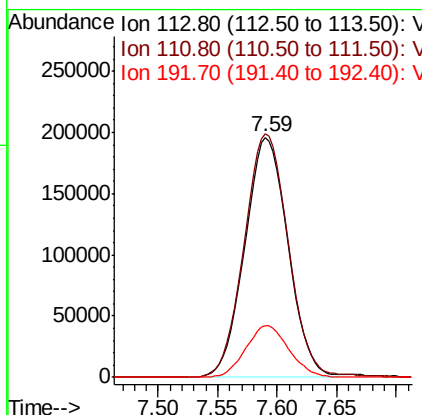
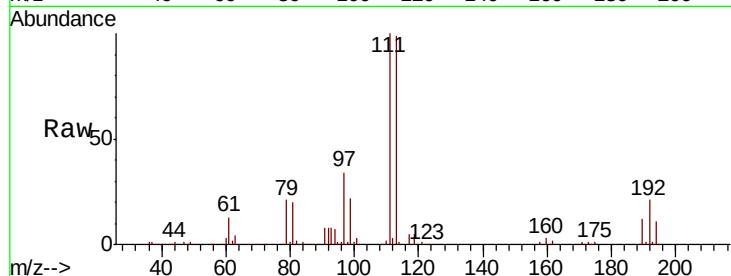
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	493537		
111	103.6	82.6	123.8	
192	21.6	17.3	25.9	

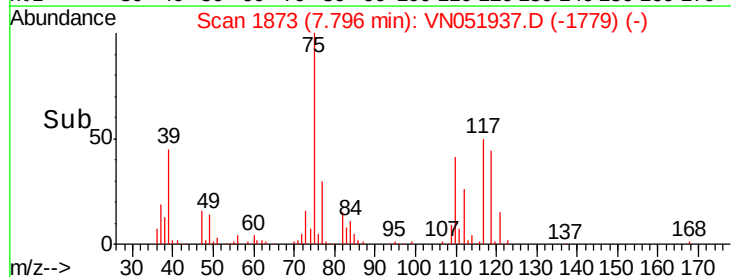
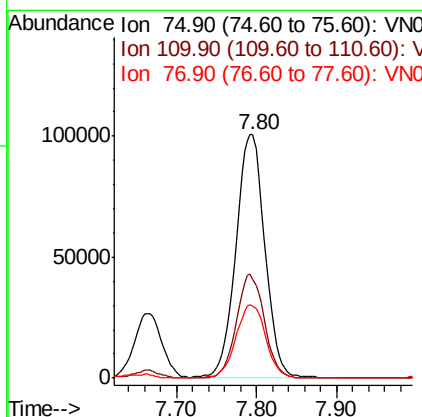
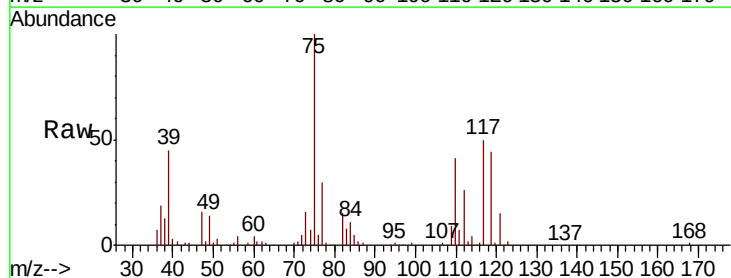
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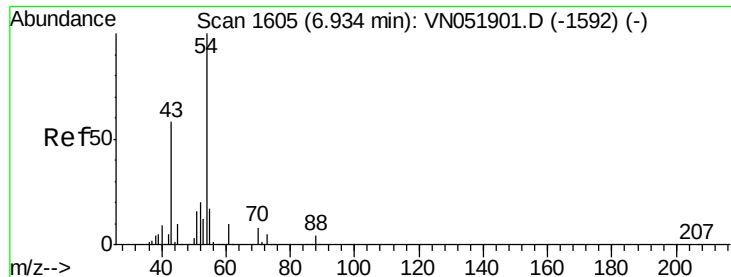
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 10/22/2018 11:35:21 AM



#36
 1,1-Dichloropropene
 Concen: 20.021 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	244365		
110	41.2	21.0	63.0	
77	31.2	24.9	37.3	





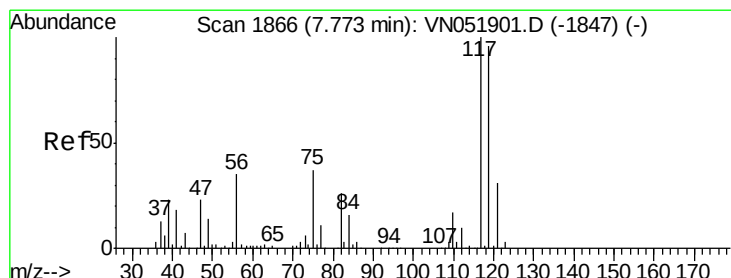
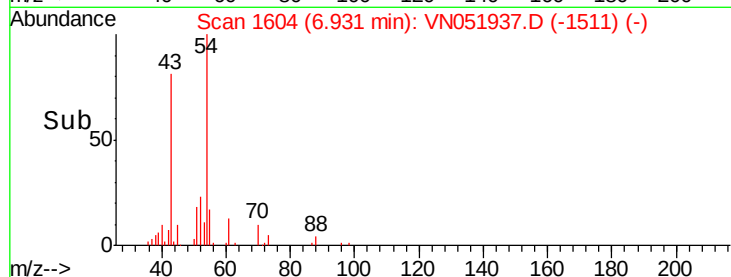
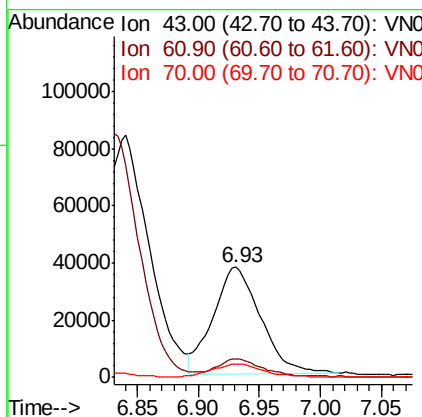
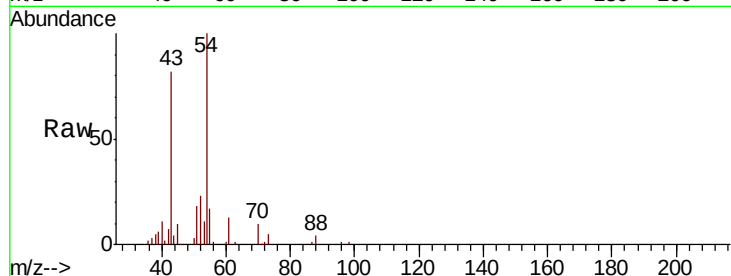
#37
Ethyl Acetate
Concen: 17.264 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.7	13.0	19.6
70	13.3	10.4	15.6

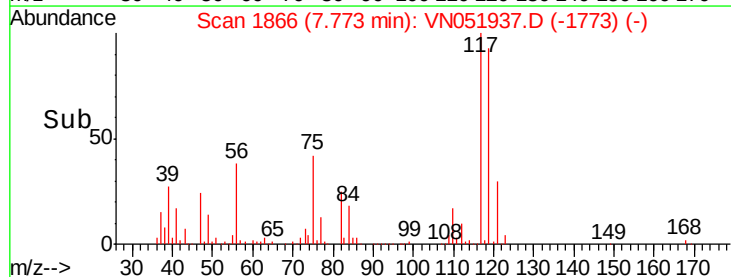
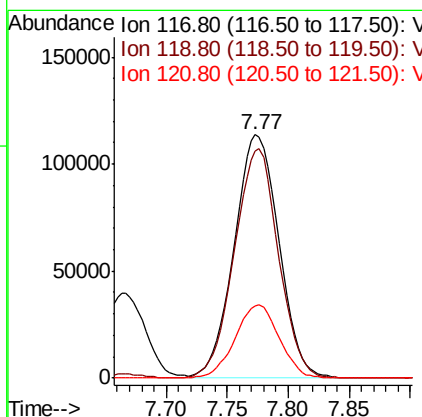
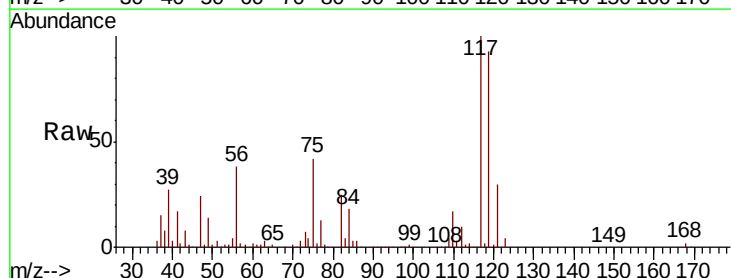
Manual Integrations
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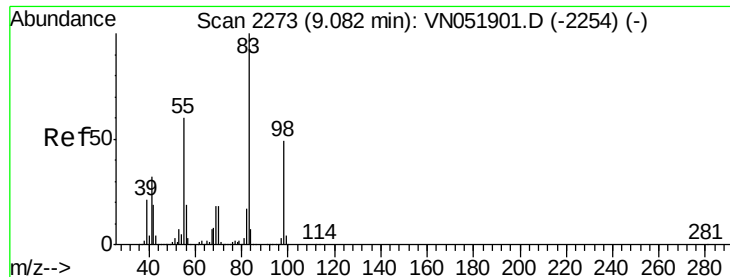
MMDadoda
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#38
Carbon Tetrachloride
Concen: 19.963 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.0	115.6
121	29.7	25.1	37.7





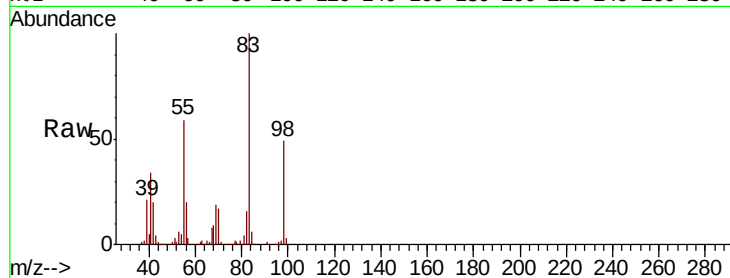
#39
Methylvlcyclohexane
Concen: 20.333 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	59.4	47.8	71.8
98	48.8	39.0	58.4

Manual Integrations
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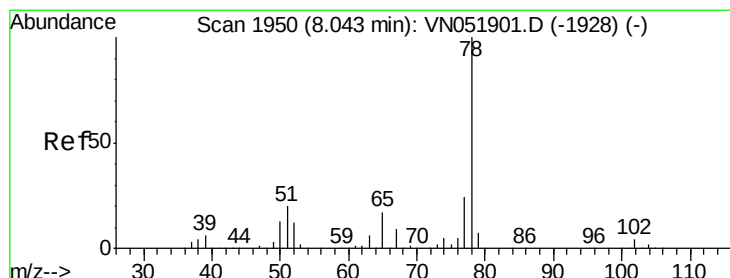
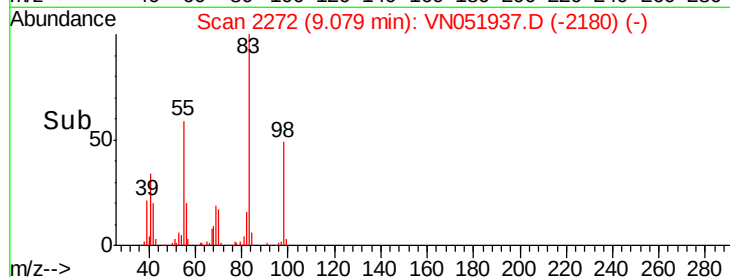
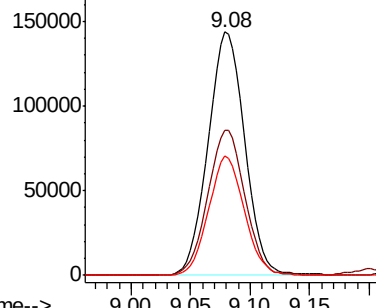


Abundance

Ion 83.00 (82.70 to 83.70): VN051901.D (-2254) (-)

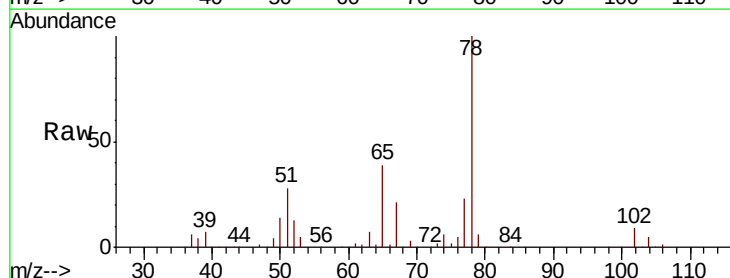
Ion 55.00 (54.70 to 55.70): VN051901.D (-2254) (-)

Ion 98.00 (97.70 to 98.70): VN051901.D (-2254) (-)



#40
Benzene
Concen: 20.461 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

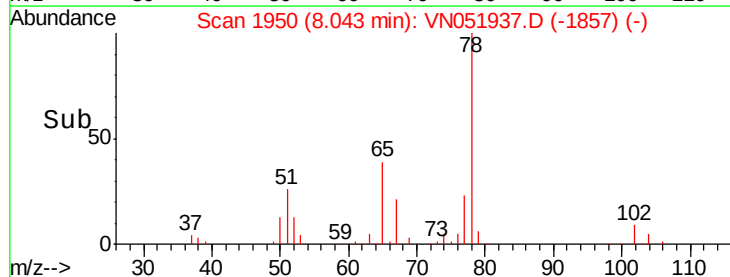
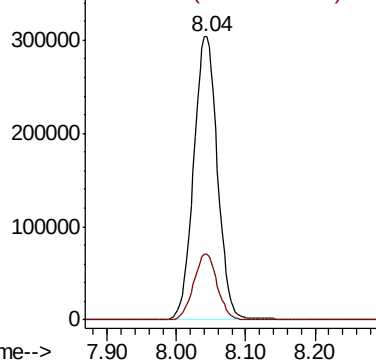
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.9	28.3

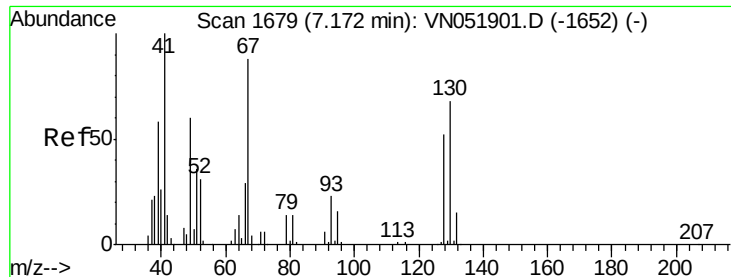


Abundance

Ion 78.00 (77.70 to 78.70): VN051901.D (-1928) (-)

Ion 77.00 (76.70 to 77.70): VN051901.D (-1928) (-)





#41

Methacrylonitrile

Concen: 22.364 ug/l m

RT: 7.19 min Scan# 1685

Delta R.T. 0.02 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 41 Resp: 62001

Ion Ratio Lower Upper

41 100

39 0.0 56.1 84.1#

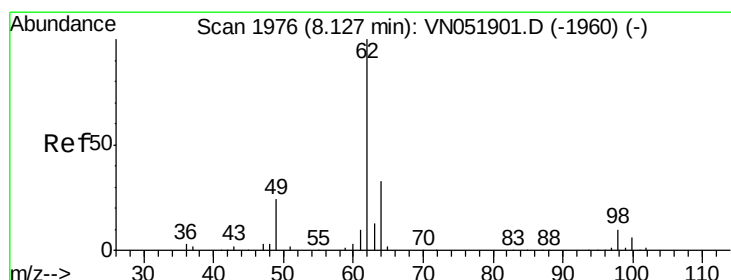
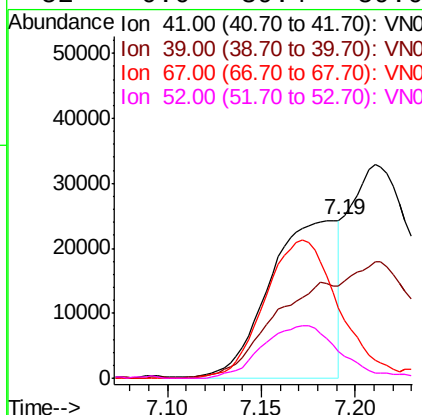
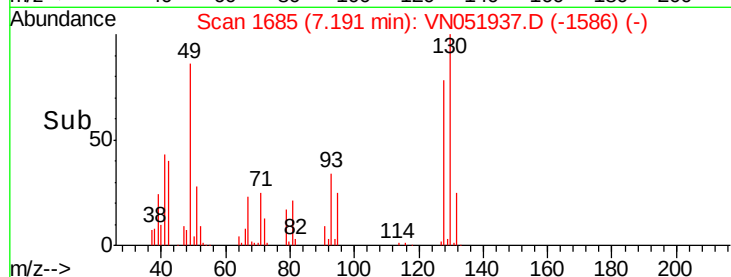
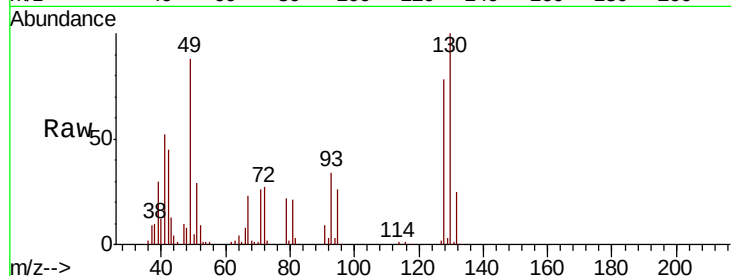
67 0.0 106.5 159.7#

52 0.0 39.4 59.0#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 20.170 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN051937.D

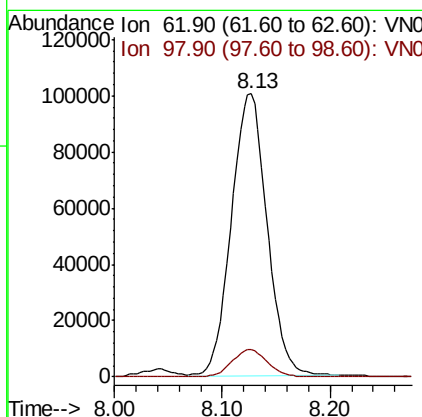
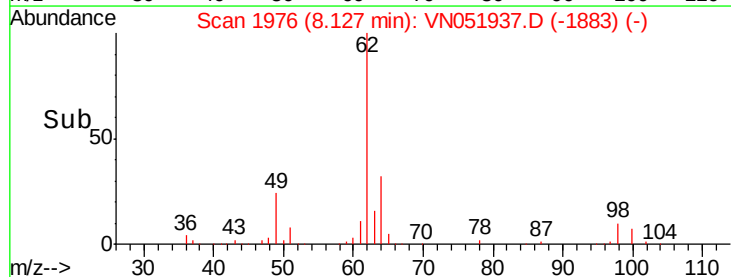
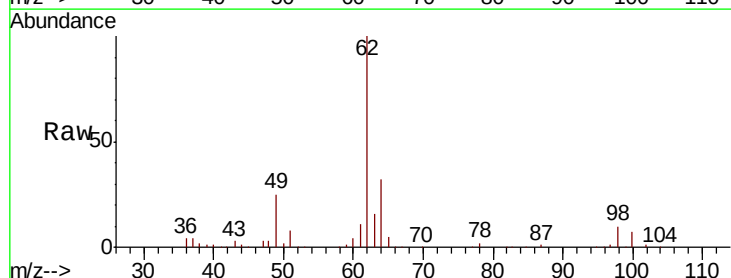
Acq: 19 Oct 2018 10:27

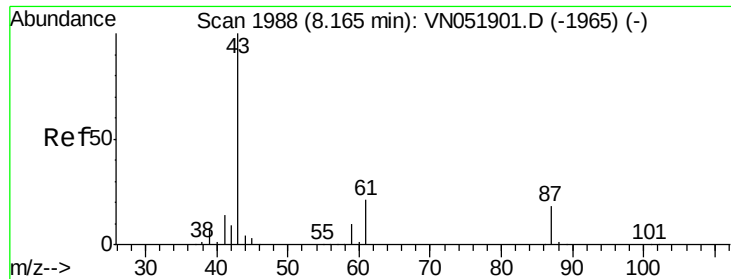
Tgt Ion: 62 Resp: 230401

Ion Ratio Lower Upper

62 100

98 9.6 0.0 19.6





#43

Isopropyl Acetate

Concen: 17.625 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

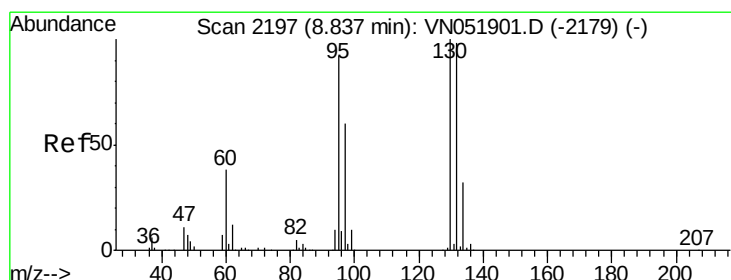
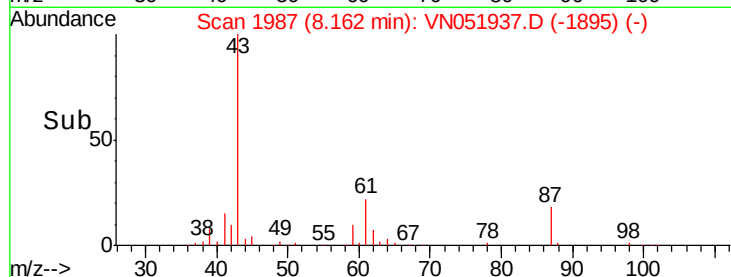
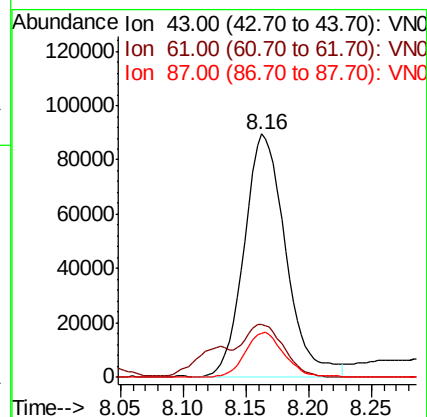
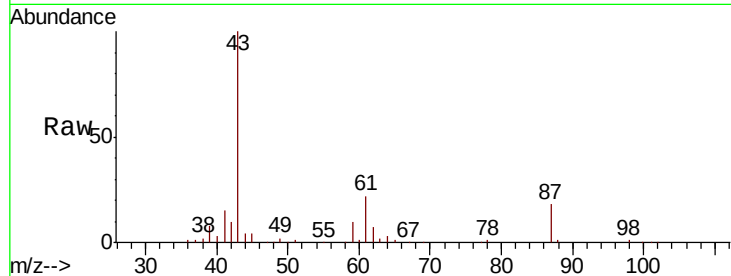
ClientSampleId :

VN1019WBS01

Tot Ion:	43	Resp:	205210
Ion	Ratio	Lower	Upper
43	100		
61	21.0	24.9	37.3#
87	17.5	14.6	22.0

Manual Integrations
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#44

Trichloroethene

Concen: 20.171 ug/l

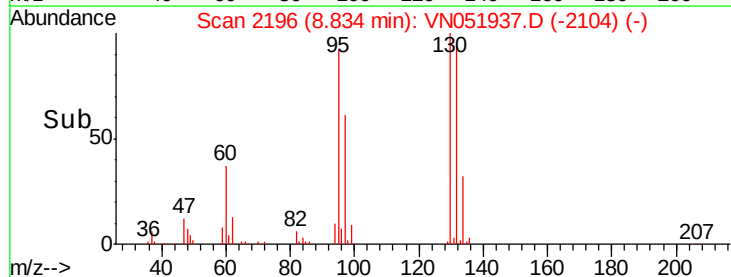
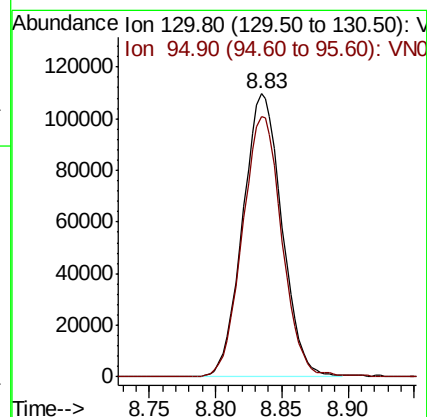
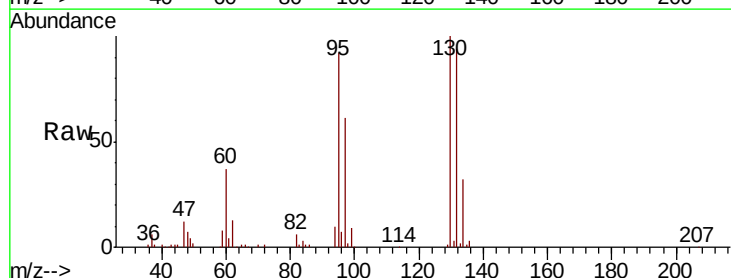
RT: 8.83 min Scan# 2196

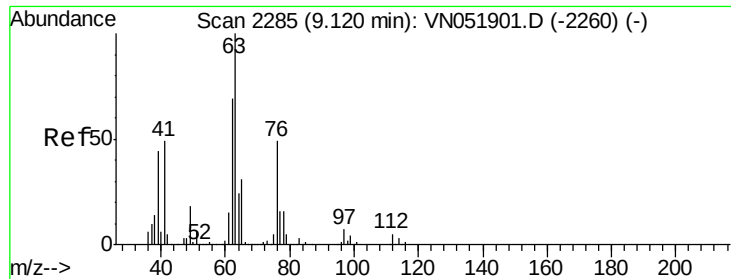
Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Tgt Ion:	130	Resp:	225702
Ion	Ratio	Lower	Upper
130	100		
95	91.9	0.0	183.2





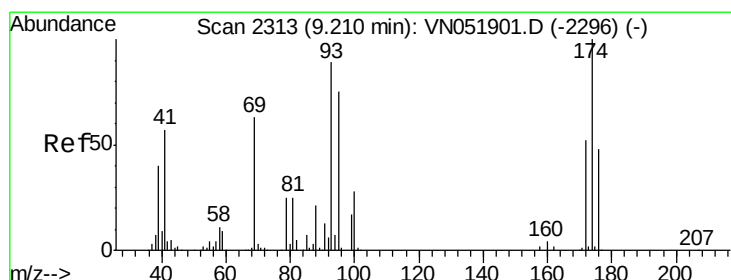
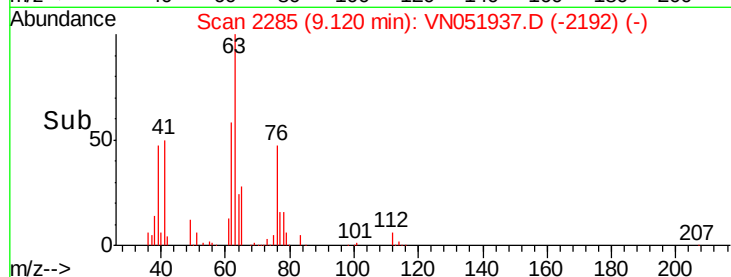
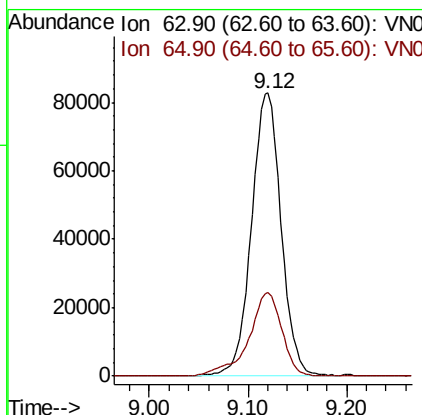
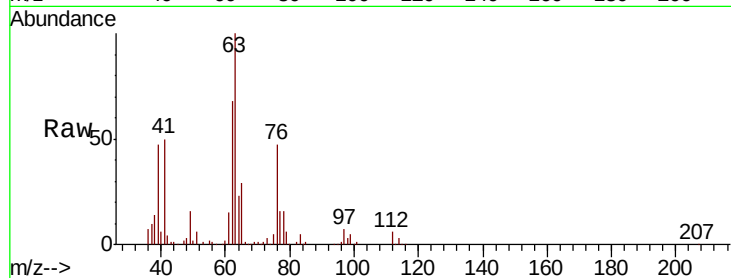
#45
 1,2-Dichloropropane
 Concen: 20.776 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.9	37.3

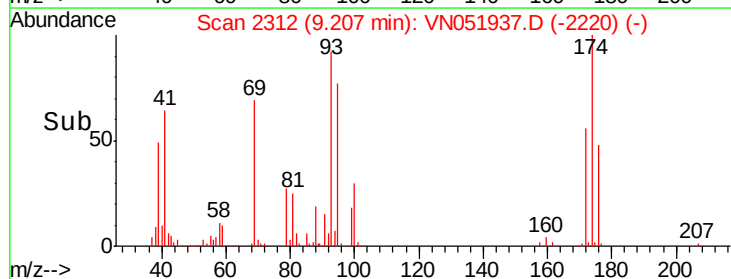
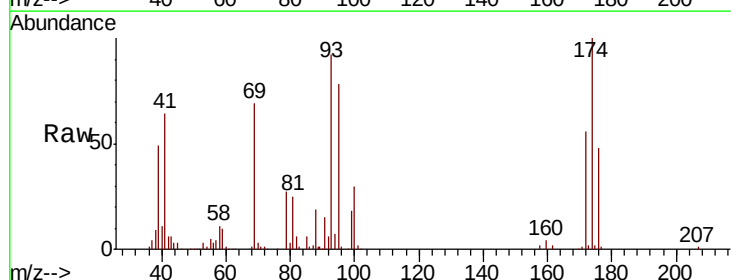
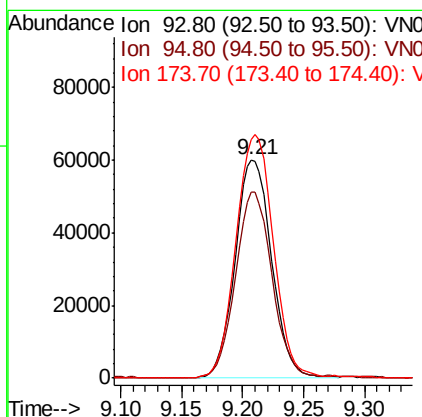
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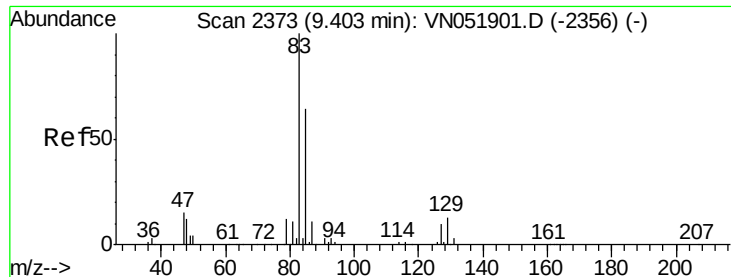
MMDadoda
 10/22/2018 11:35:21 AM



#46
 Dibromomethane
 Concen: 19.818 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
93	100		
95	85.2	67.8	101.6
174	114.2	91.9	137.9





#47

Bromodichloromethane

Concen: 19.917 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

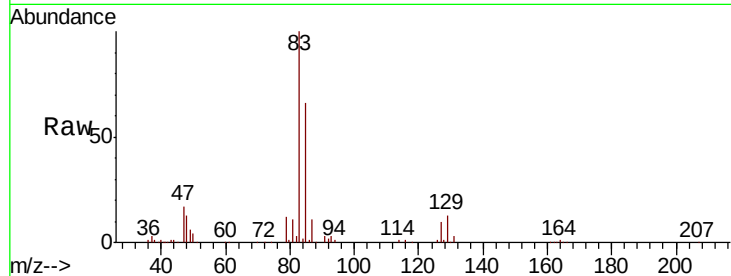
ClientSampleId :

VN1019WBS01

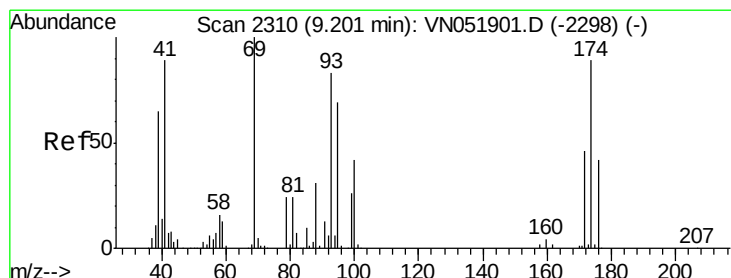
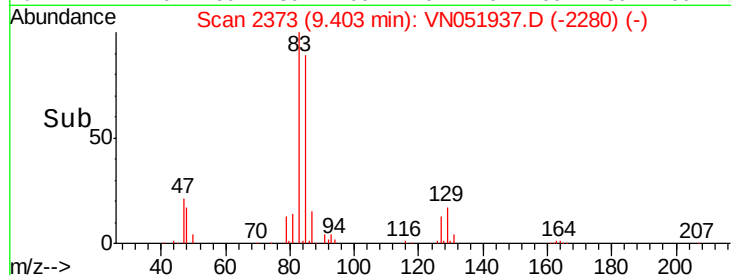
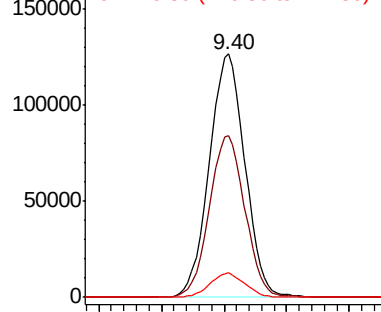
Tot Ion:	83	Resp:	250874
Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.4	77.2
127	10.0	7.9	11.9

Manual Integrations
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MMDadoda
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Abundance Ion 82.90 (82.60 to 83.60): VN051937.D (-2280) (-)



#48

Methyl methacrylate

Concen: 19.223 ug/l

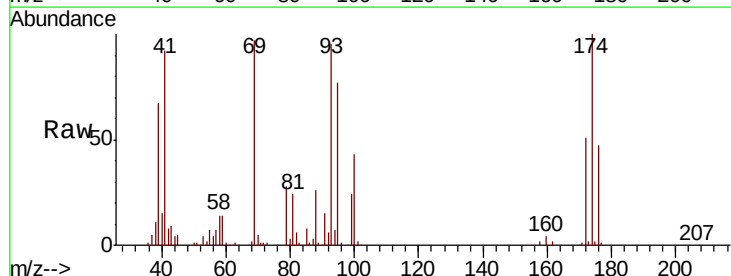
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

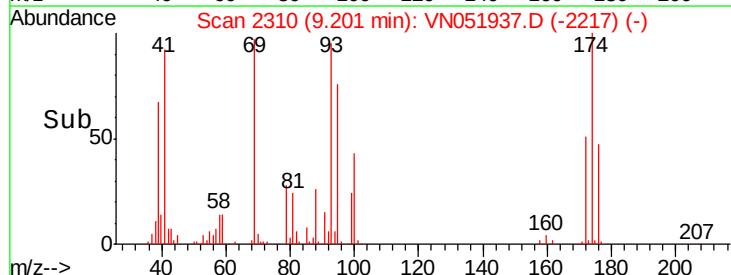
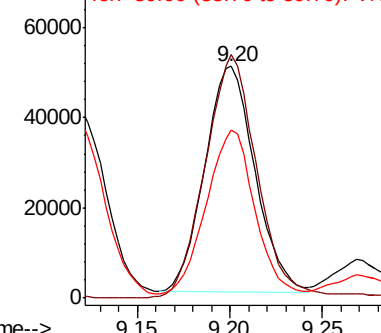
Lab File: VN051937.D

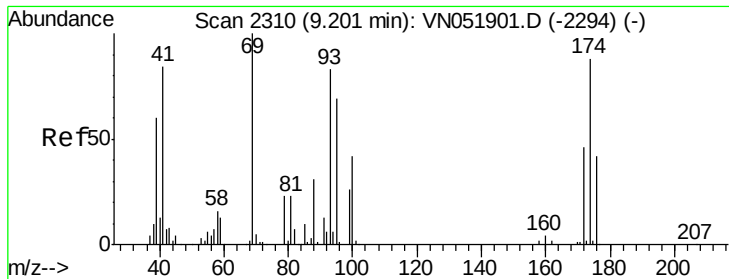
Acq: 19 Oct 2018 10:27

Tgt Ion:	41	Resp:	94712
Ion	Ratio	Lower	Upper
41	100		
69	110.3	90.2	135.2
39	73.0	59.7	89.5



Abundance Ion 41.00 (40.70 to 41.70): VN051937.D (-2217) (-)





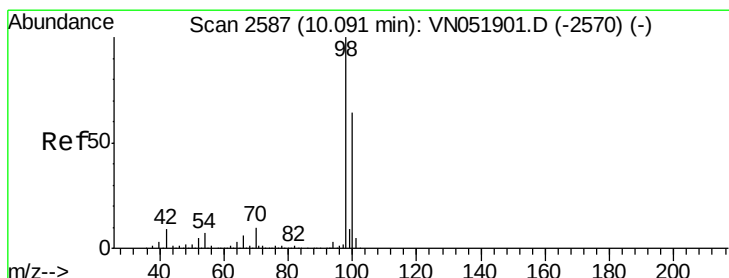
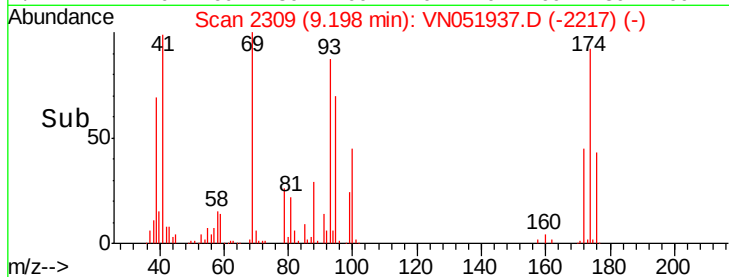
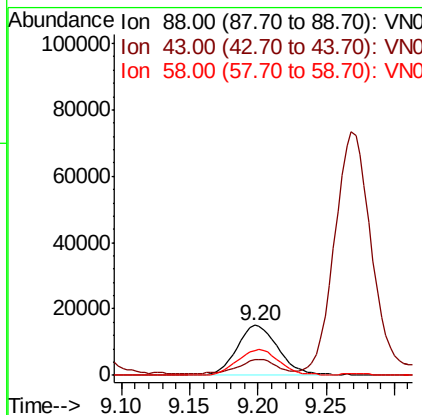
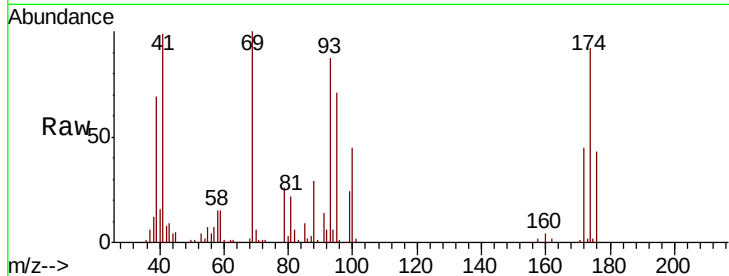
#49
1,4-Dioxane
Concen: 339.851 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	24.6	19.7	29.5
58	52.0	42.6	64.0

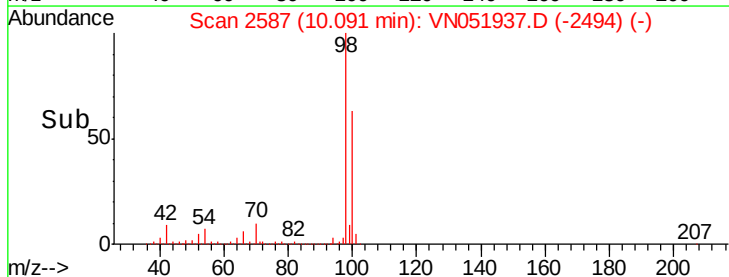
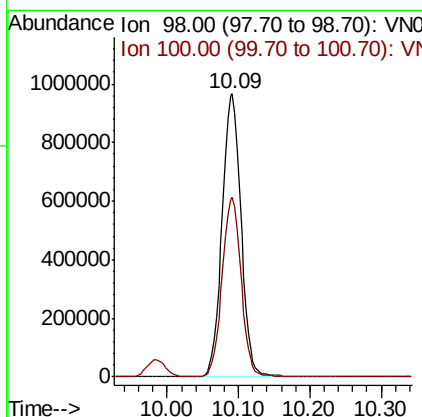
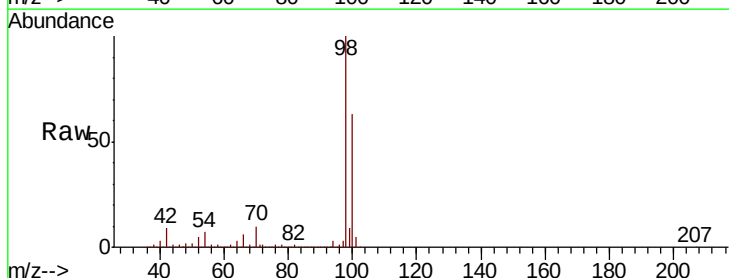
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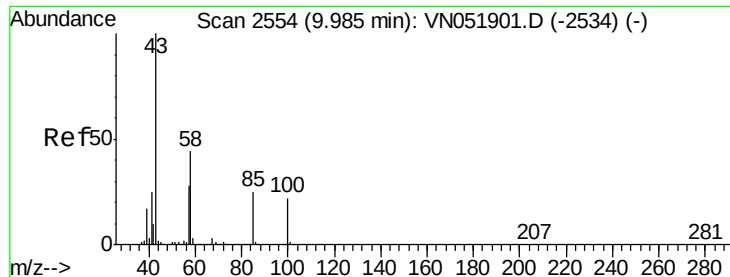
MMDadoda
10/22/2018 11:35:21 AM



#50
Toluene-d8
Concen: 339.851 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.0	76.4





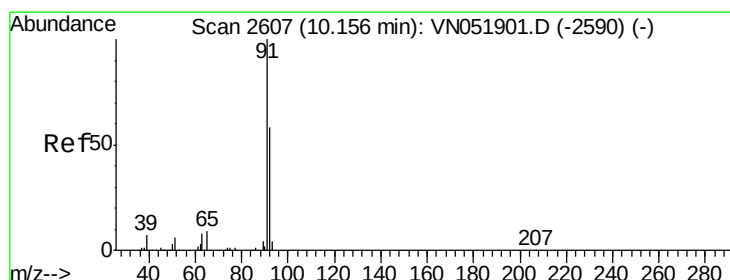
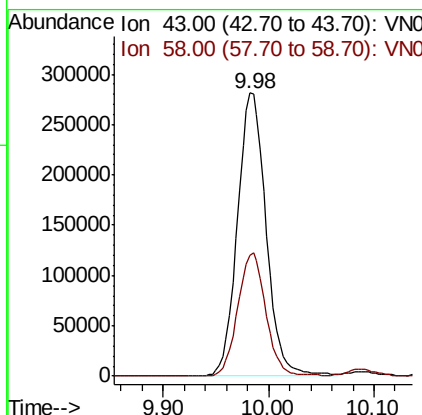
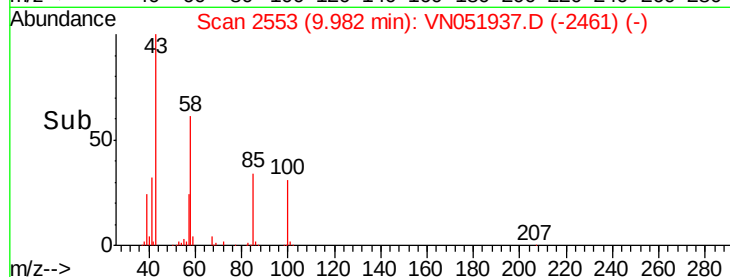
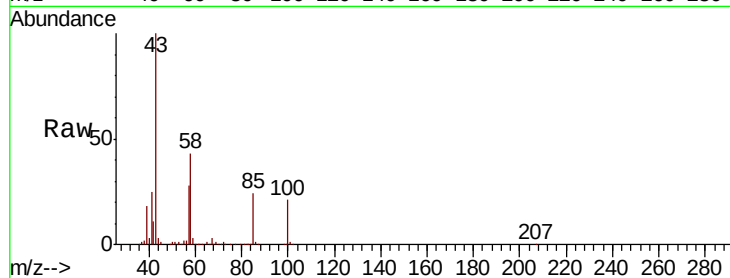
#51
4-Methyl-2-Pentanone
Concen: 92.872 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	42.7	34.6	52.0

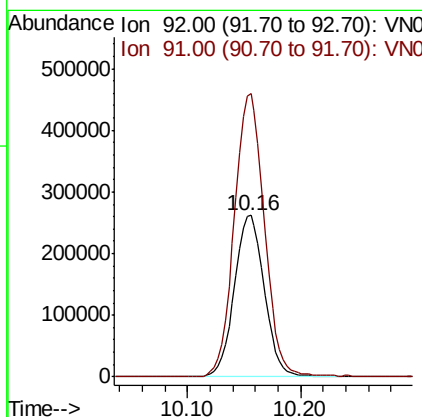
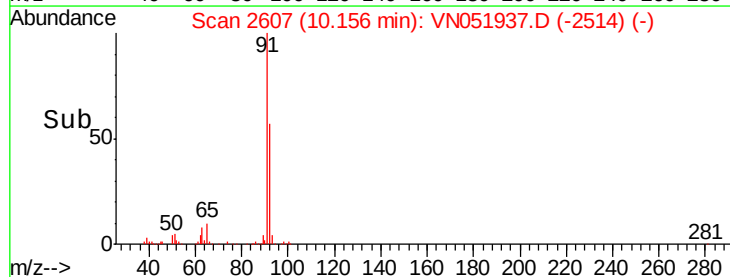
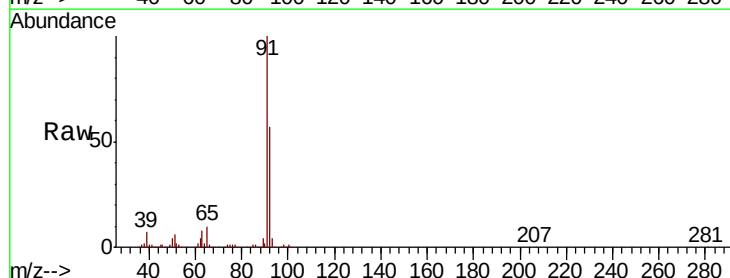
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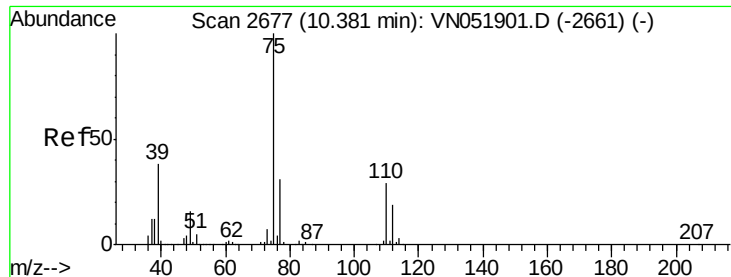
MMDadoda
10/22/2018 11:35:21 AM



#52
Toluene
Concen: 20.322 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.8	139.8	209.6





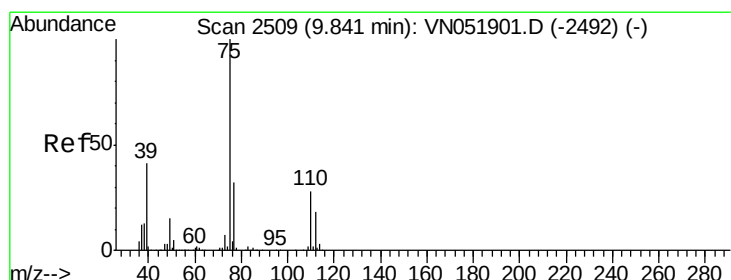
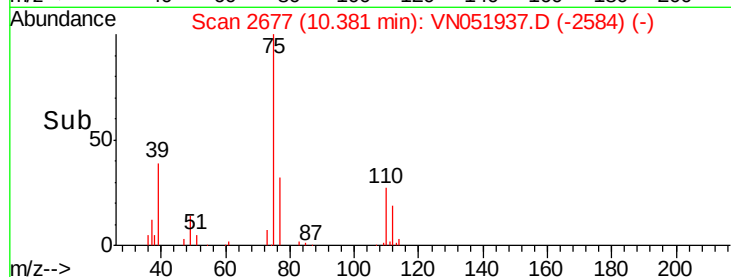
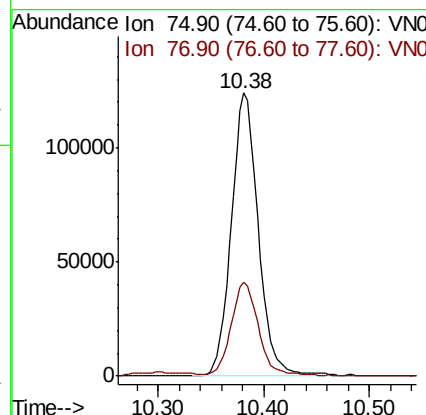
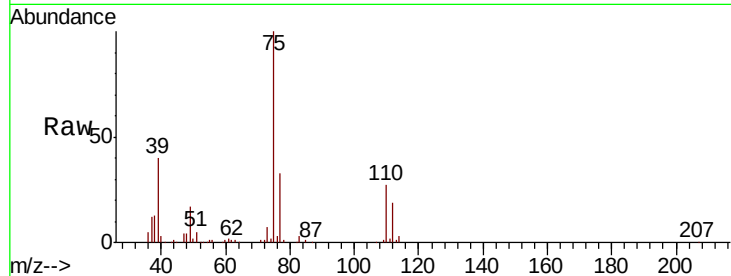
#53
t-1,3-Dichloropropene
Concen: 18.394 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.4	38.0

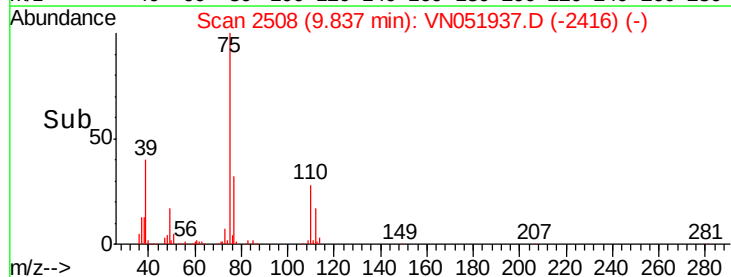
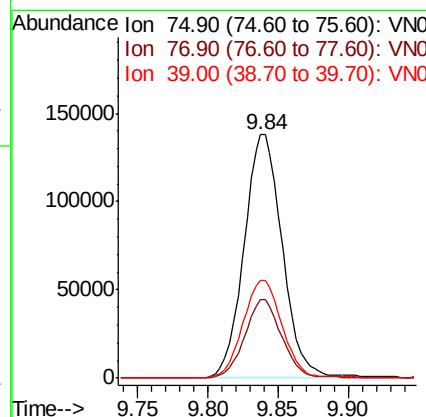
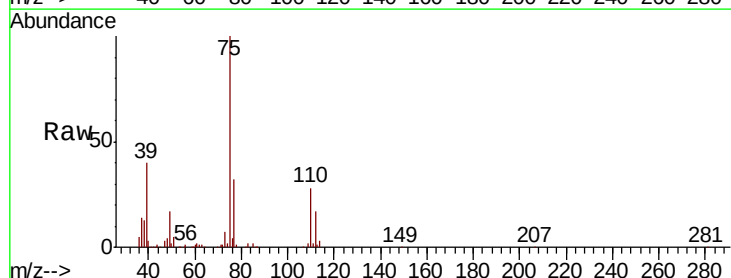
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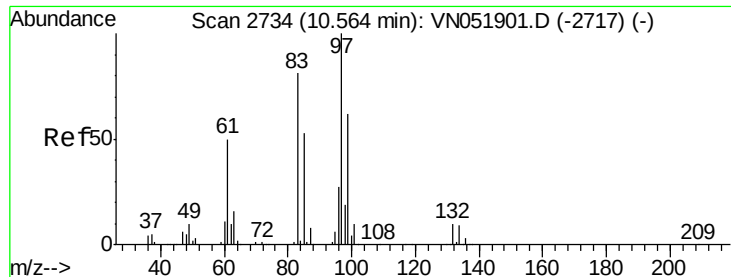
MMDadoda
10/22/2018 11:35:21 AM



#54
cis-1,3-Dichloropropene
Concen: 19.667 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.3	37.9
39	40.0	32.8	49.2





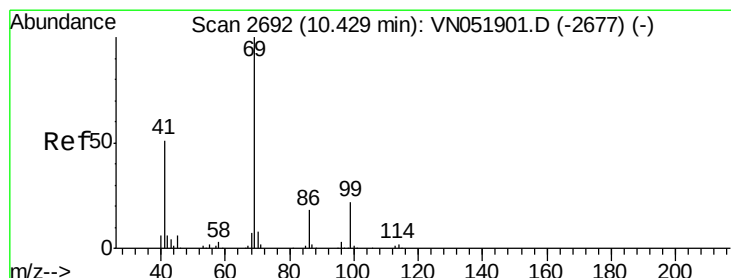
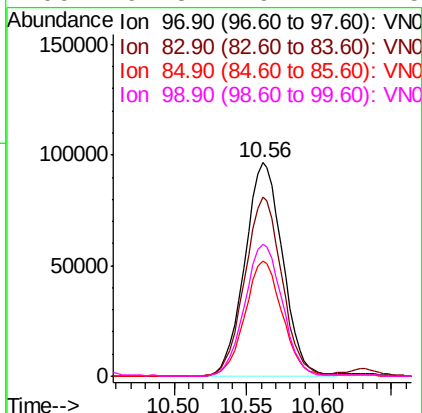
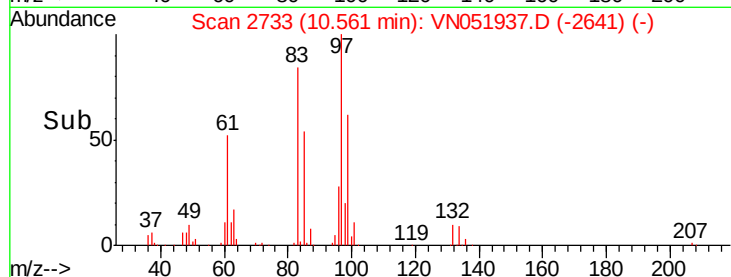
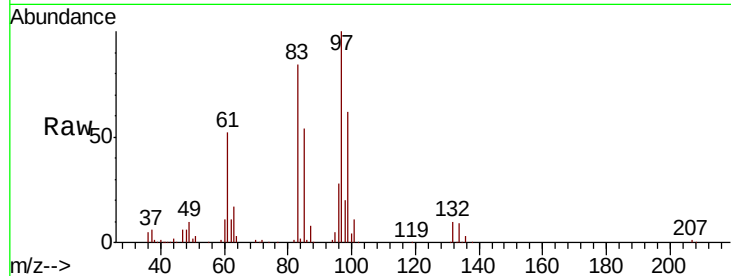
#55
 1,1,2-Trichloroethane
 Concen: 20.119 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		175836		
83	83.9	64.6		64.6	96.8
85	54.1	42.3		42.3	63.5
99	61.8	49.7		49.7	74.5

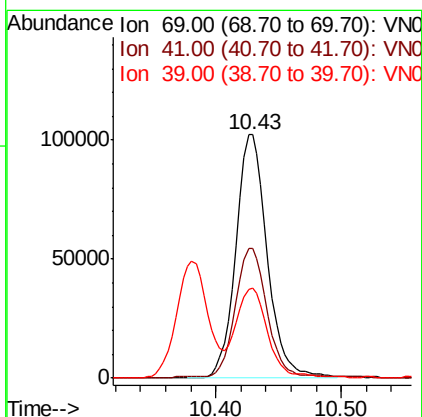
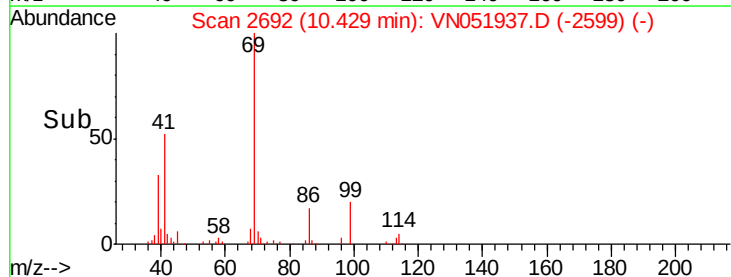
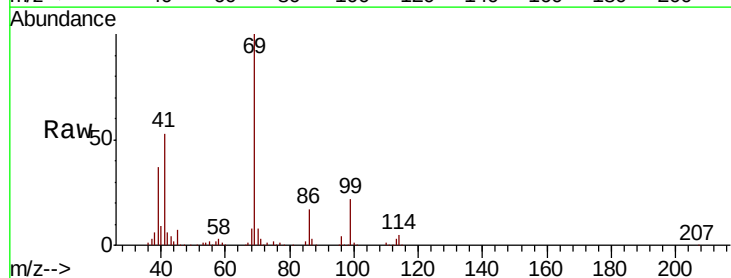
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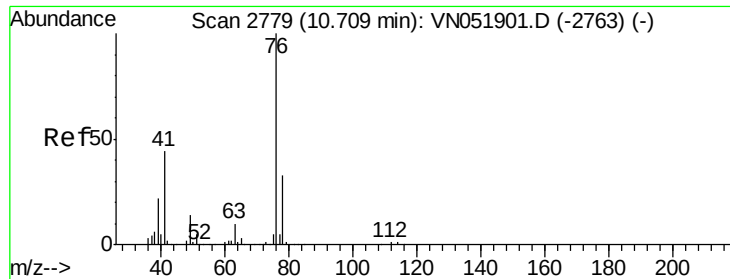
MMDadoda
 10/22/2018 11:35:21 AM



#56
 Ethyl methacrylate
 Concen: 18.238 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		178199		
41	53.0	40.6		40.6	61.0
39	37.4	29.4		29.4	44.0





#57

1,3-Dichloropropane

Concen: 19.737 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 76 Resp: 262639

Ion Ratio Lower Upper

76 100

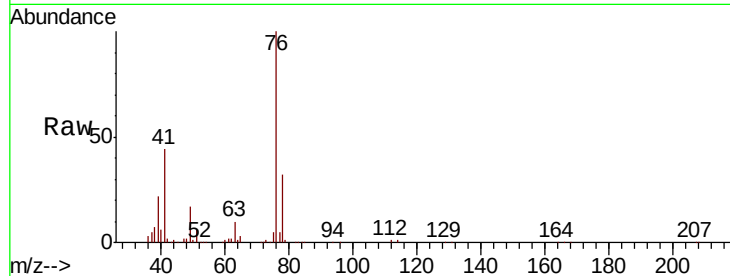
78 32.8 25.8 38.6

Manual Integrations

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MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

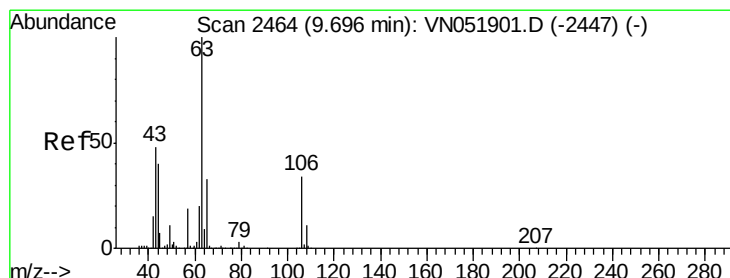
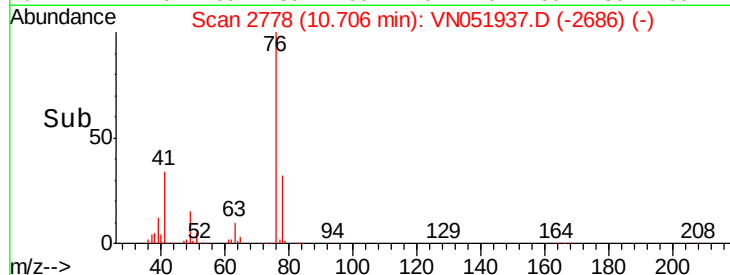
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 86.807 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN051937.D

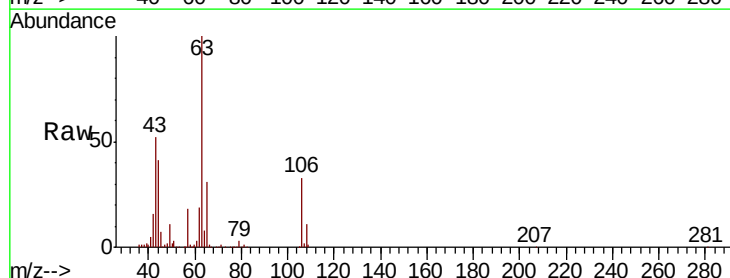
Acq: 19 Oct 2018 10:27

Tgt Ion: 63 Resp: 382276

Ion Ratio Lower Upper

63 100

106 33.9 27.5 41.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.69

250000

200000

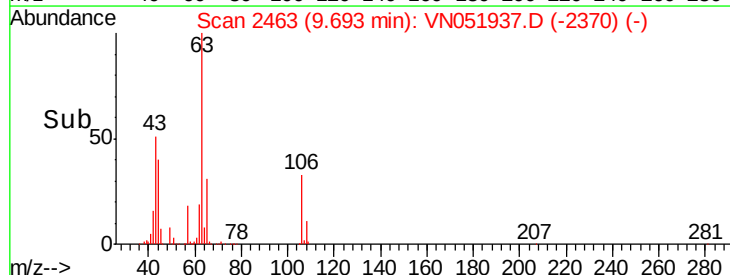
150000

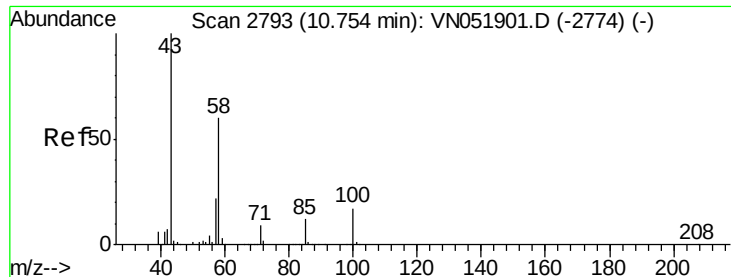
100000

50000

0

Time-->





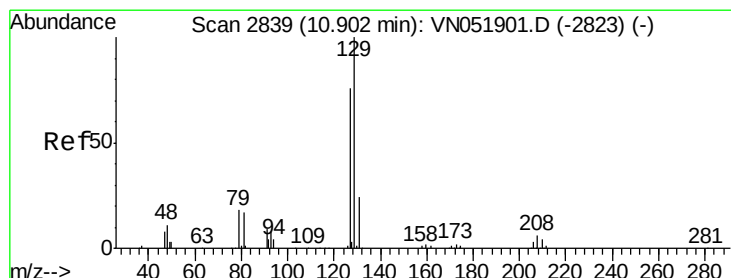
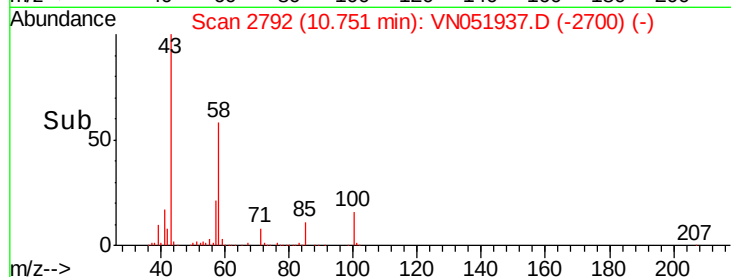
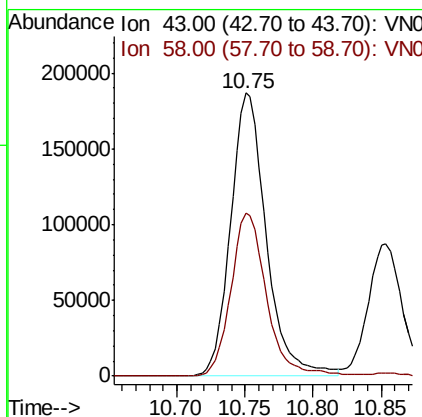
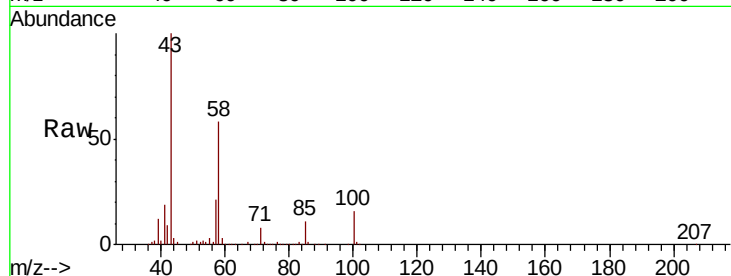
#59
2-Hexanone
Concen: 88.273 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	43	Resp	336311
Ion Ratio	43	100	
Lower	58	58.0	29.8
Upper			89.5

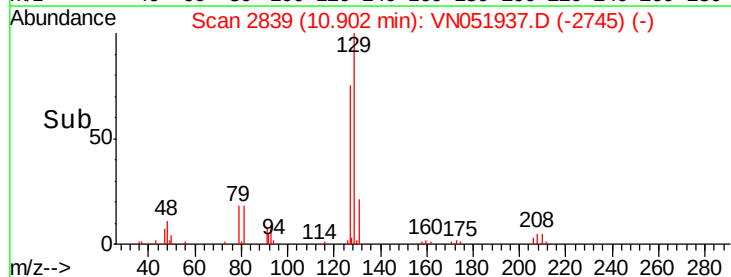
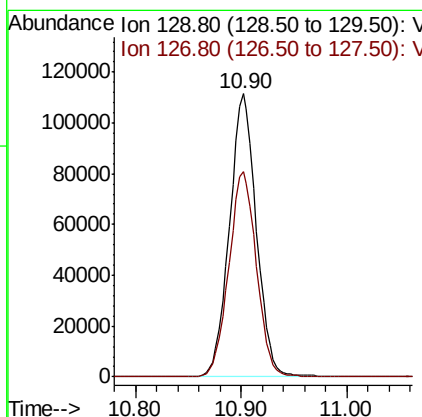
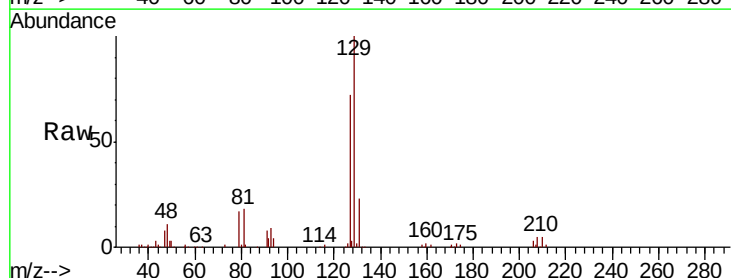
Manual Integrations
APPROVED

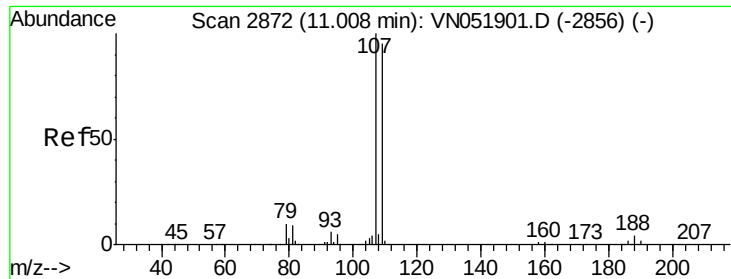
MMDadoda
10/22/2018 11:35:21 AM



#60
Dibromochloromethane
Concen: 18.103 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	129	Resp	196087
Ion Ratio	129	100	
Lower	127	74.4	38.3
Upper			114.8





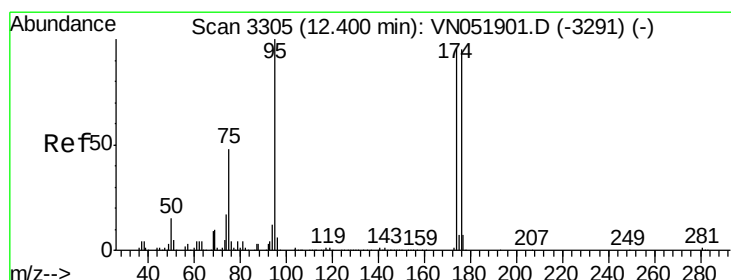
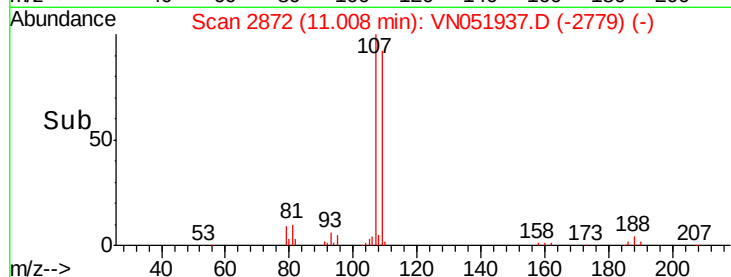
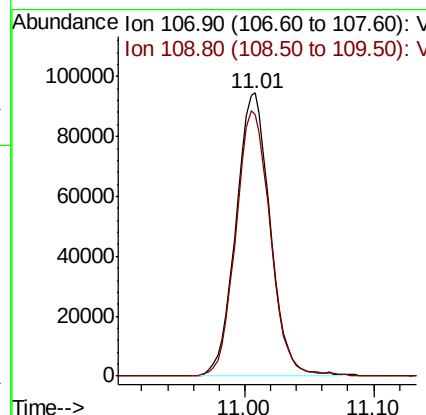
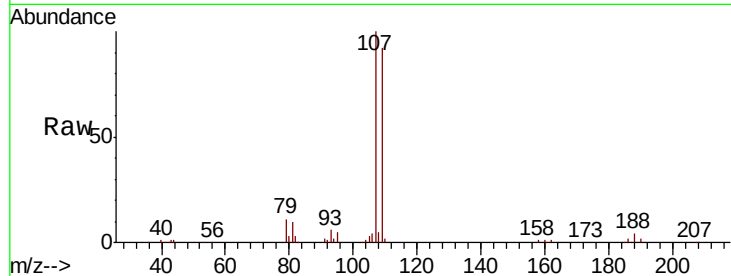
#61
 1,2-Dibromoethane
 Concen: 19.017 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.0	112.6

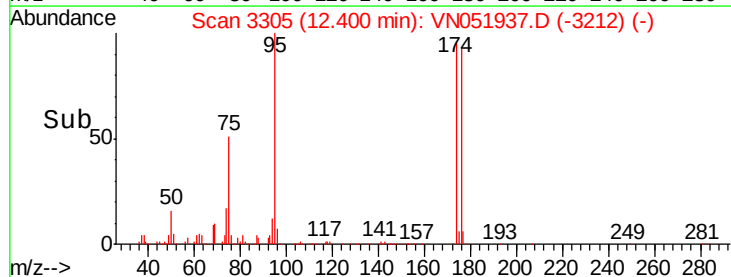
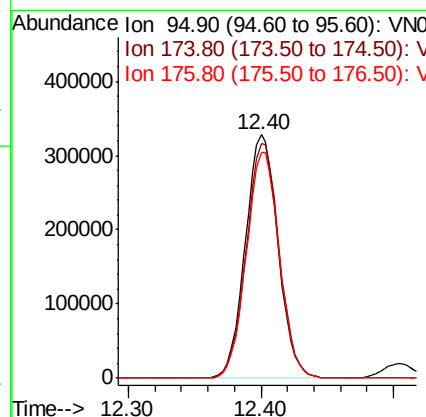
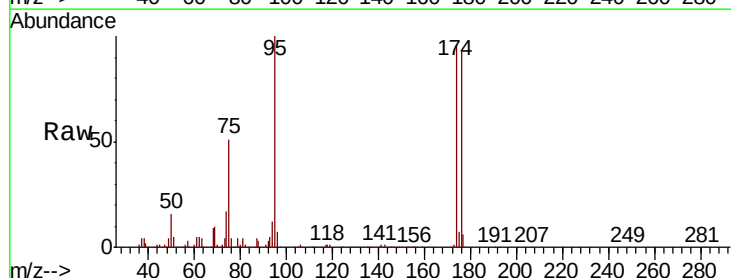
Manual Integrations
 APPROVED

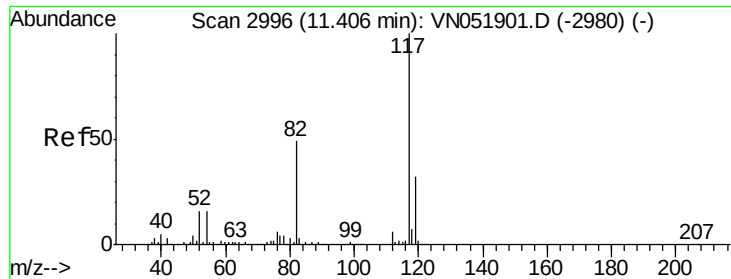
MMDadoda
 10/22/2018 11:35:21 AM



#62
 4-Bromofluorobenzene
 Concen: 19.017 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.1	0.0	195.0
176	93.7	0.0	191.4





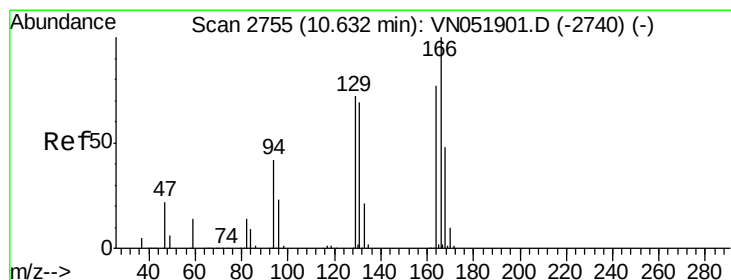
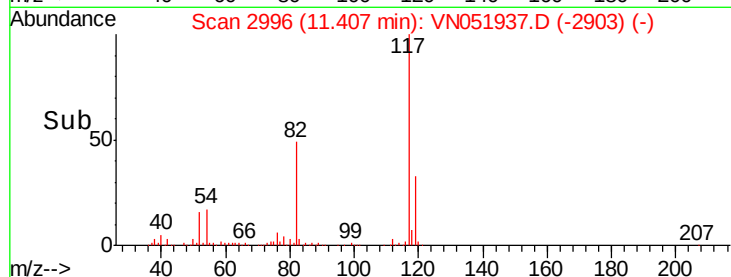
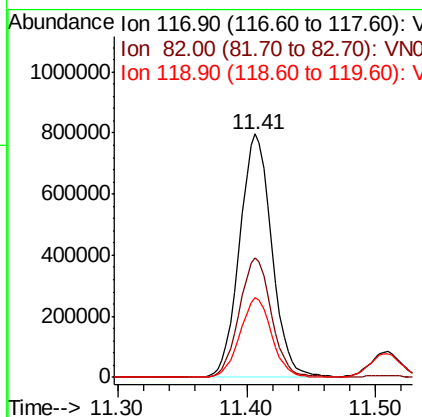
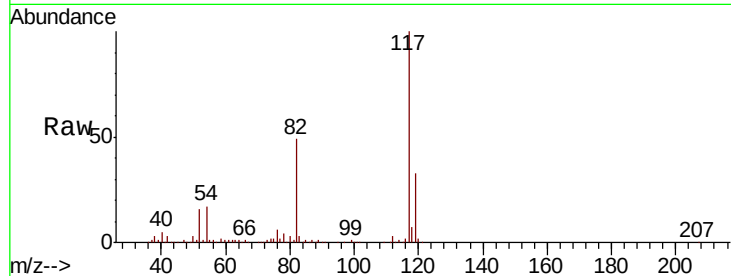
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.2	38.9	58.3
119	32.5	25.9	38.9

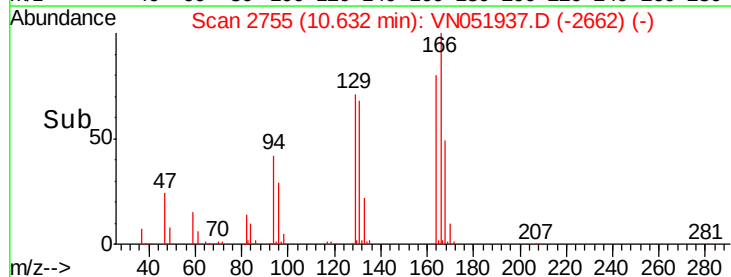
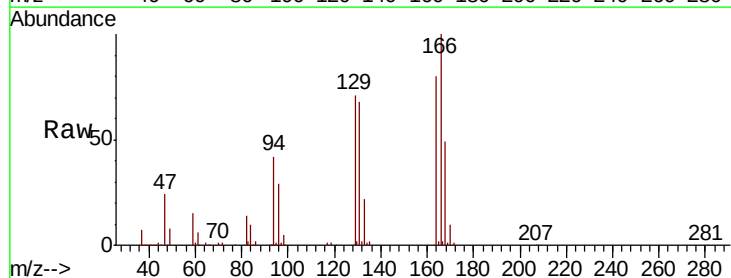
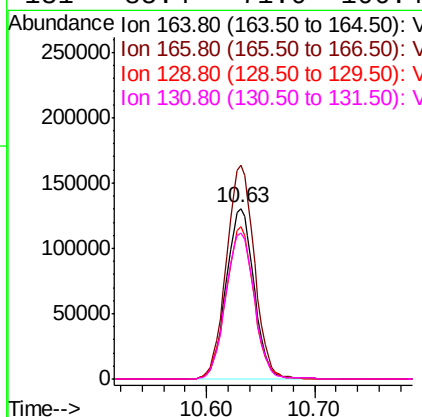
Manual Integrations
APPROVED

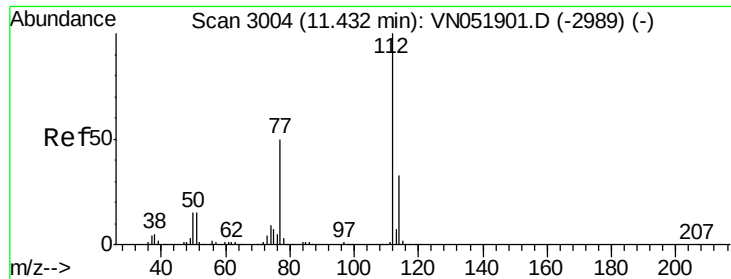
MMDadoda
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#64
Tetrachloroethene
Concen: 21.131 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.4	103.4	155.0
129	89.2	73.9	110.9
131	85.4	71.0	106.4





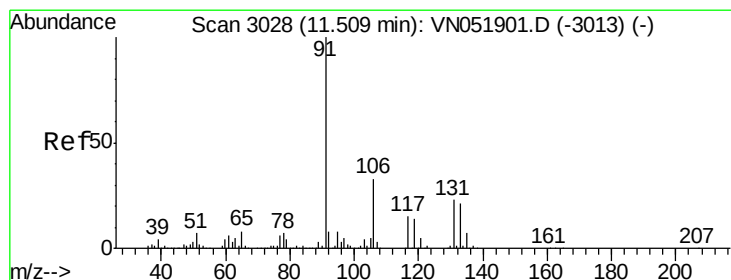
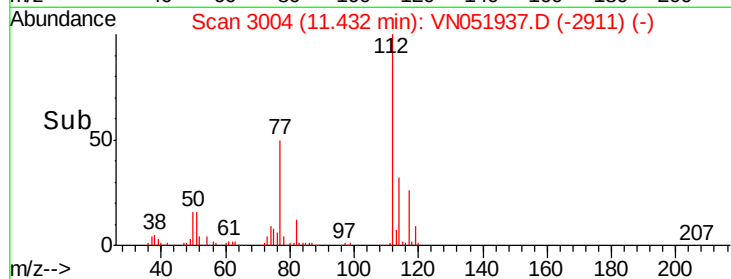
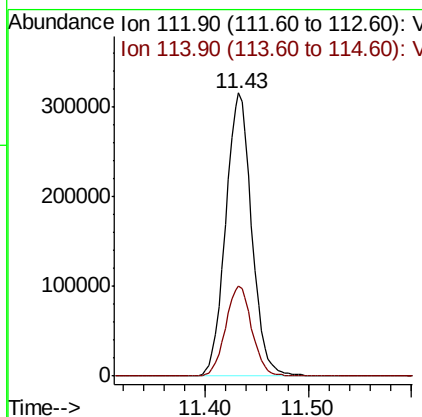
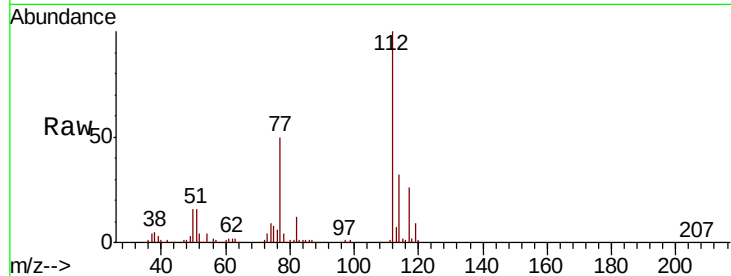
#65
Chlorobenzene
Concen: 20.076 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	26.4	39.6

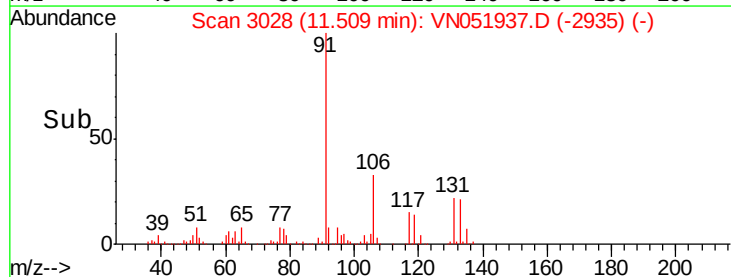
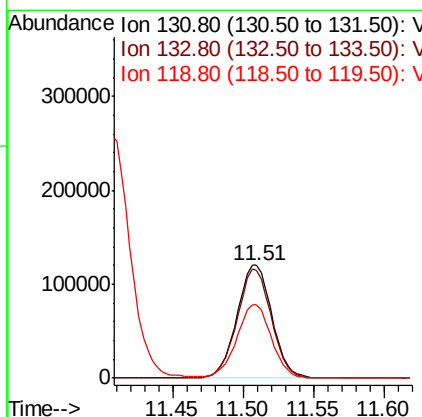
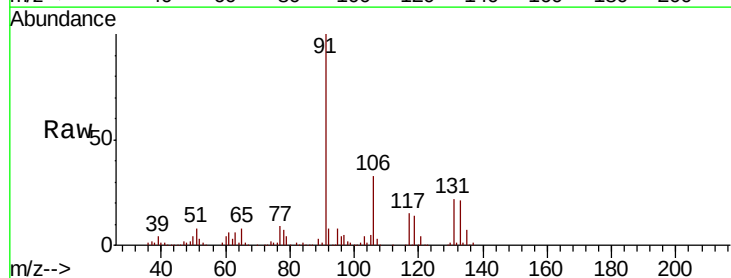
Manual Integrations
APPROVED

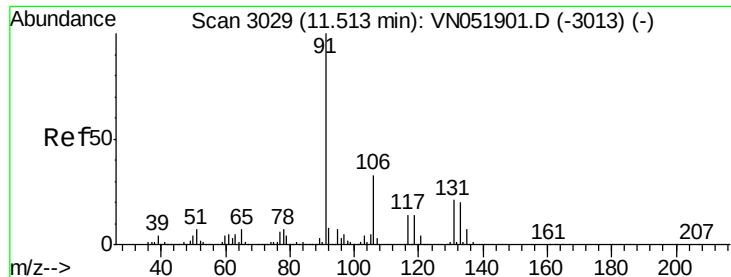
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.295 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.5	142.6
119	65.0	32.1	96.5





#67

Ethyl Benzene

Concen: 20.253 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampled :

VN1019WBS01

Tot Ion: 91 Resp: 917526

Ion Ratio Lower Upper

91 100

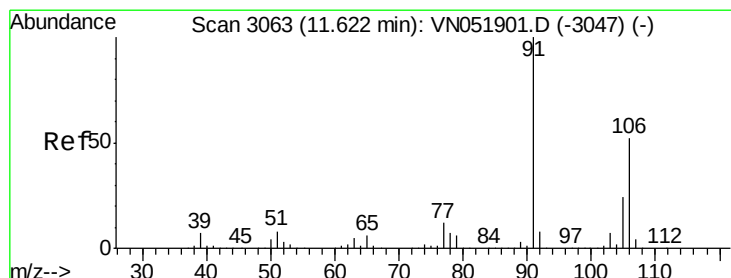
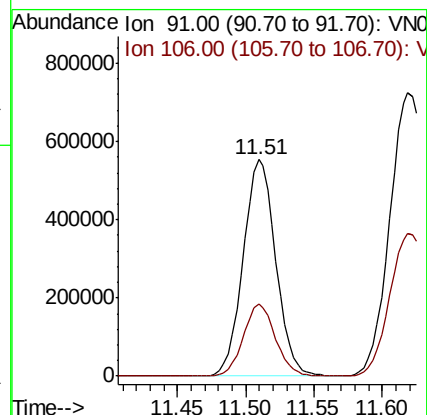
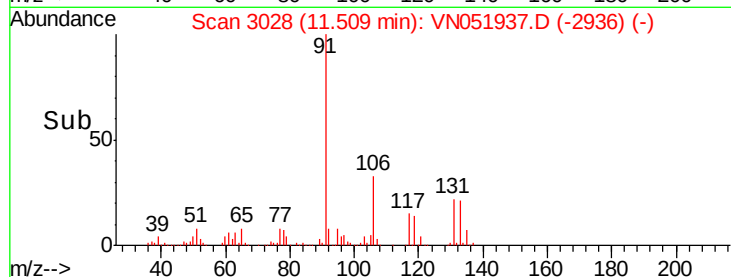
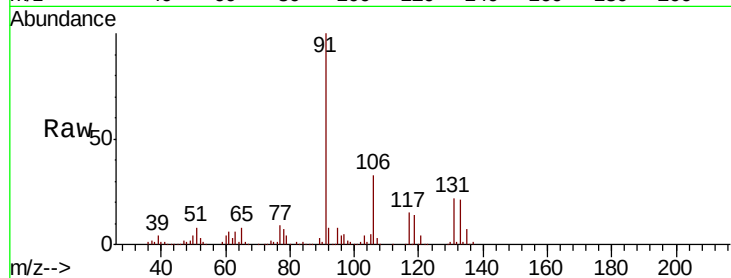
106 33.2 26.6 39.8

Manual Integrations

APPROVED

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#68

m/p-Xylenes

Concen: 40.489 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN051937.D

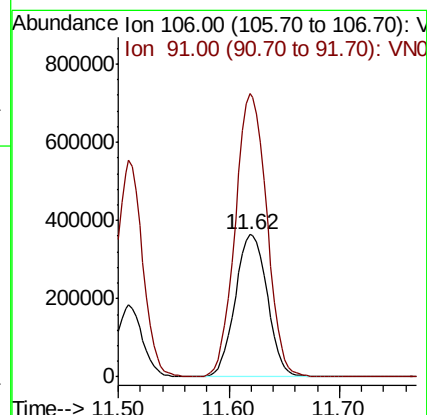
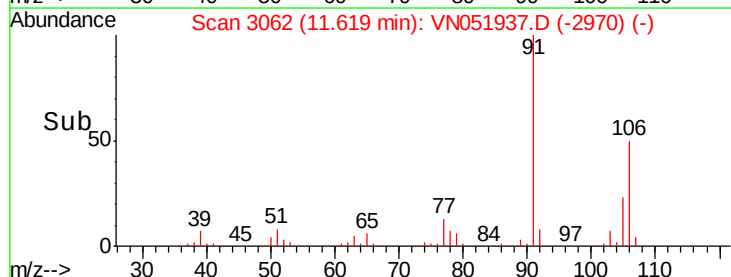
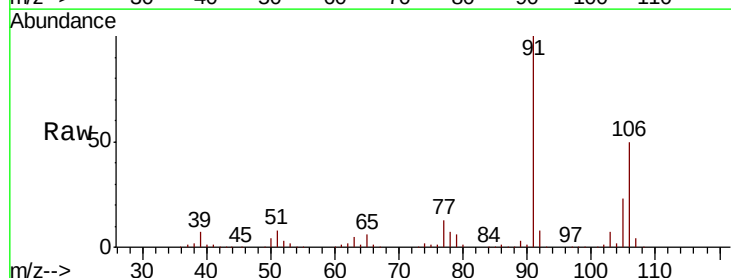
Acq: 19 Oct 2018 10:27

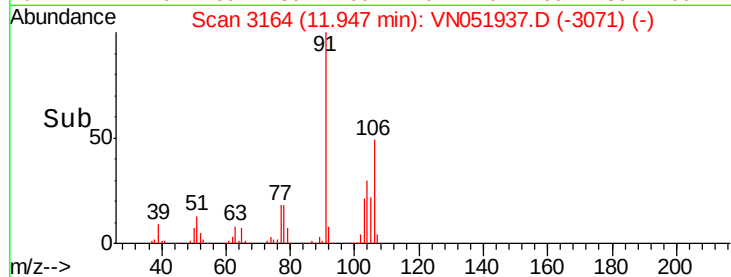
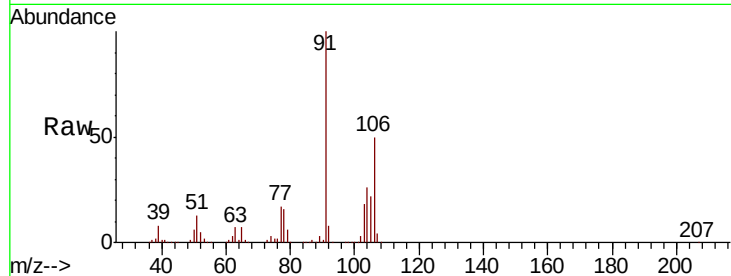
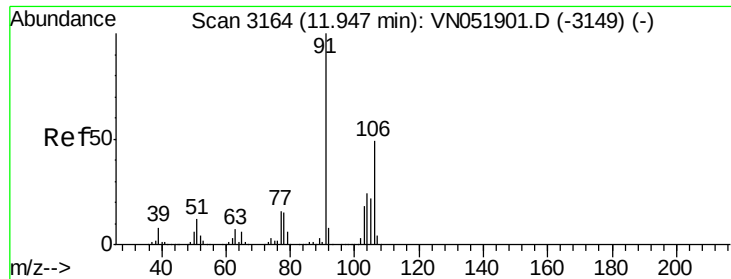
Tgt Ion: 106 Resp: 736518

Ion Ratio Lower Upper

106 100

91 194.4 153.6 230.4





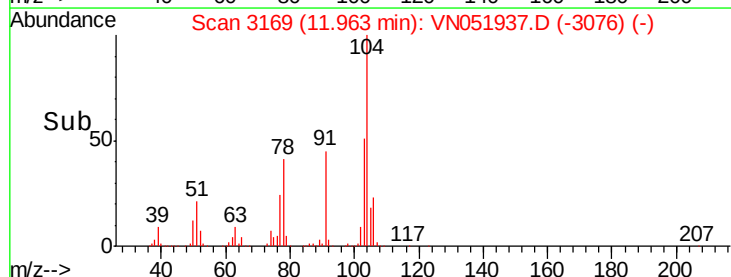
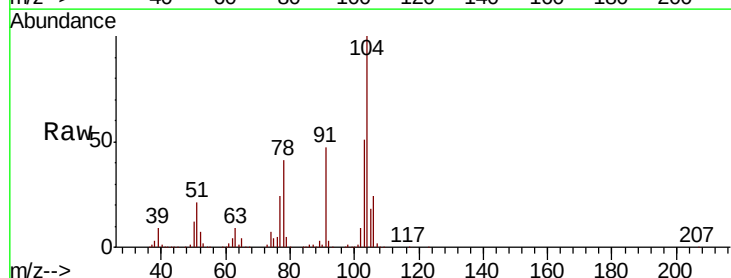
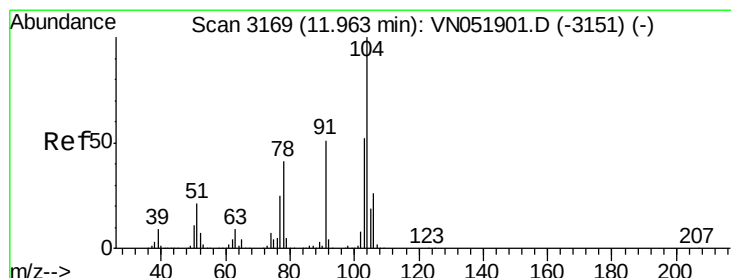
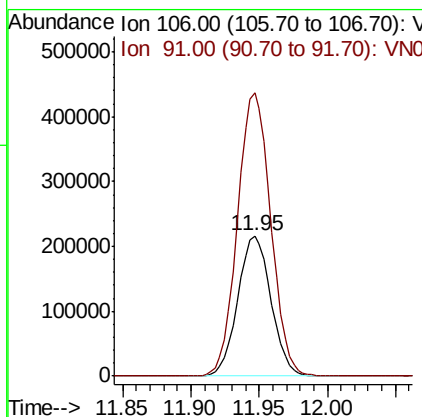
#69
o-Xylene
Concen: 20.596 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tot Ion	Ratio	Lower	Upper
106	100		
91	202.4	100.7	302.1

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

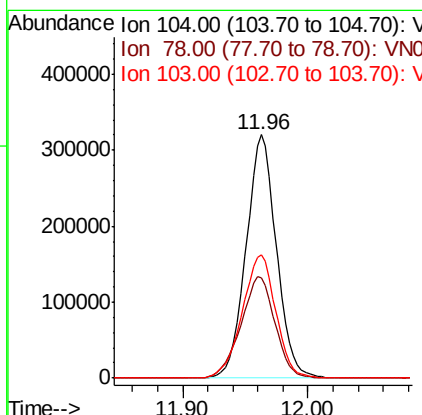
Manual Integrations
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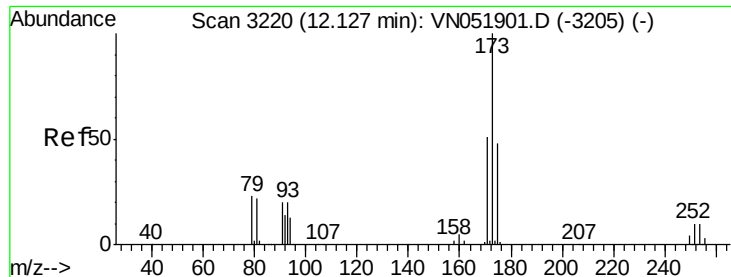
MMDadoda
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#70
Styrene
Concen: 19.796 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.1	36.6	55.0
103	56.1	44.6	67.0





#71

Bromoform

Concen: 17.398 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion:173 Resp: 117278

Ion Ratio Lower Upper

173 100

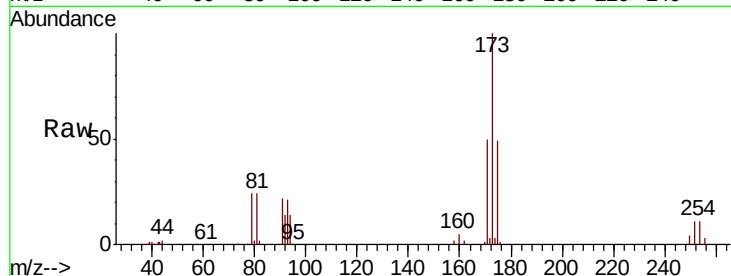
175 48.6 24.0 72.0

254 0.0 0.2 0.2#

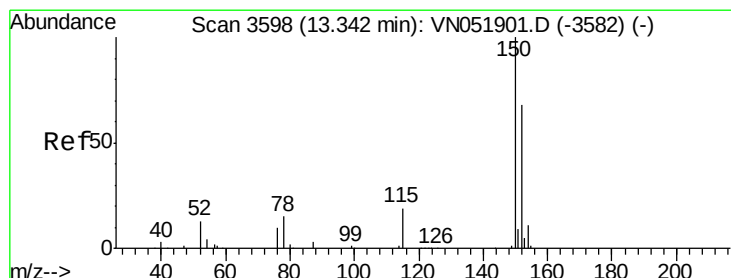
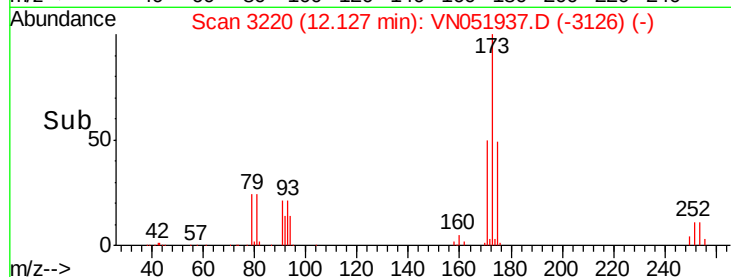
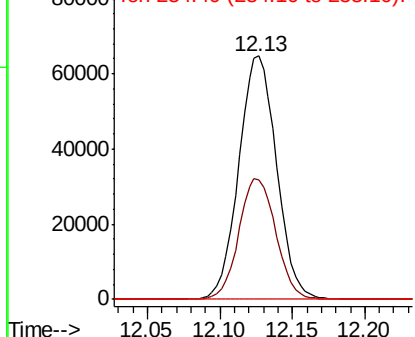
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

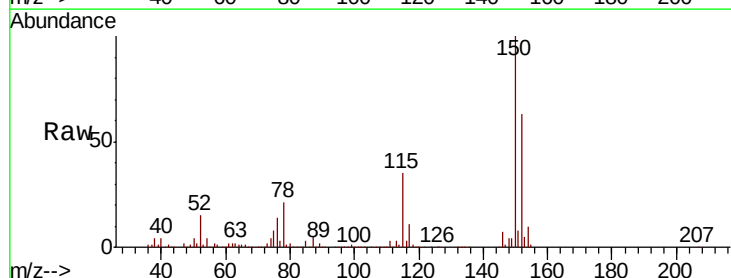
Tgt Ion:152 Resp: 608429

Ion Ratio Lower Upper

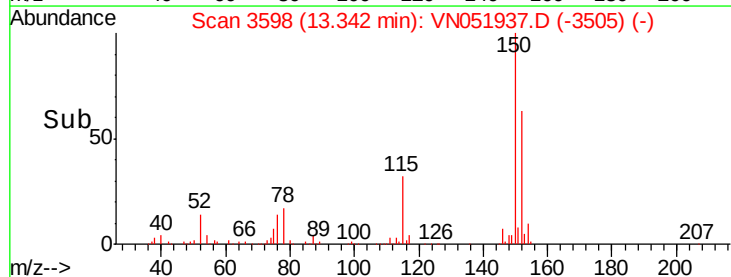
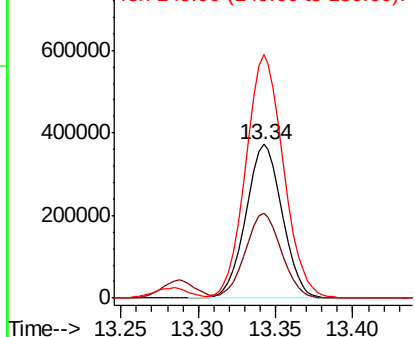
152 100

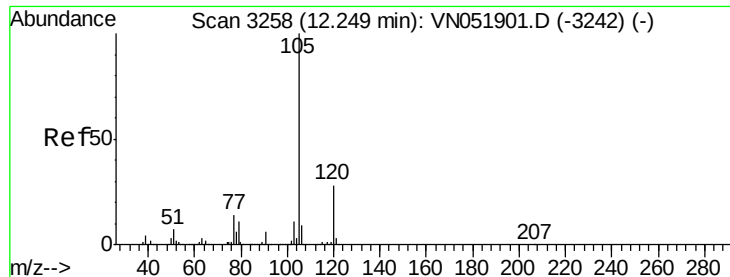
115 55.1 26.7 80.1

150 164.5 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.305 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 105 Resp: 956356

Ion Ratio Lower Upper

105 100

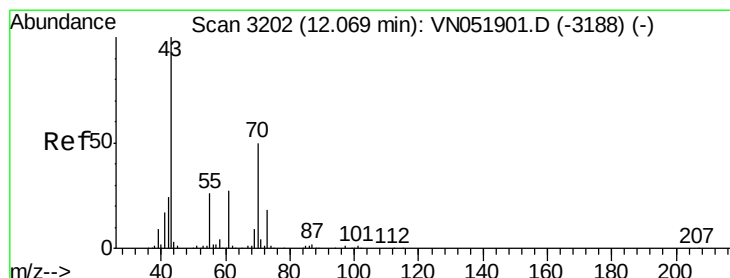
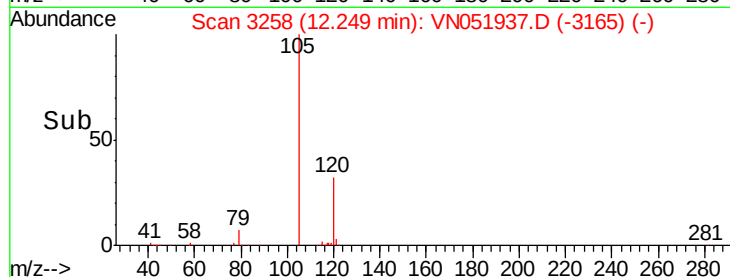
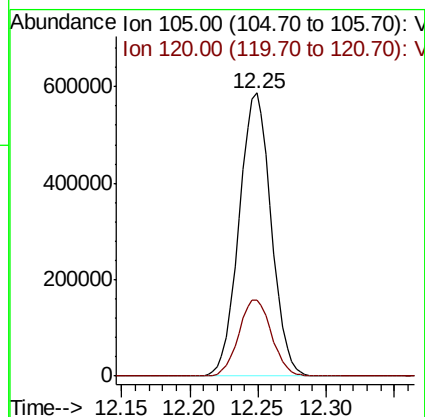
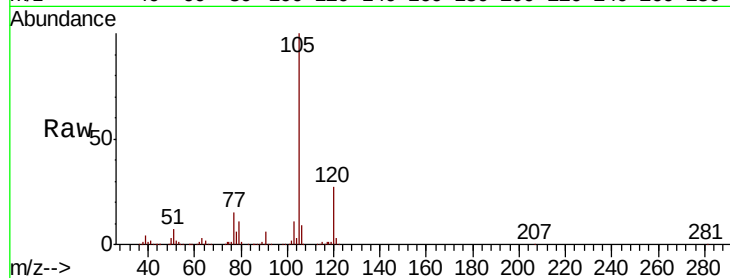
120 27.5 14.0 41.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 17.556 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Tgt Ion: 43 Resp: 142174

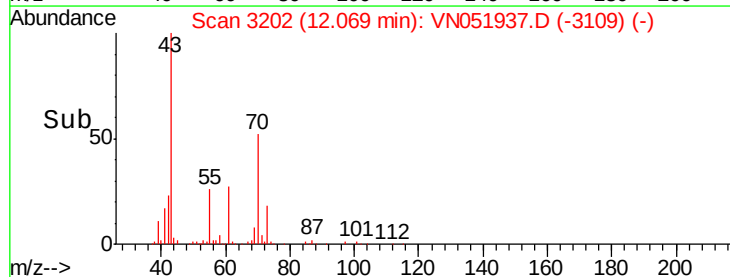
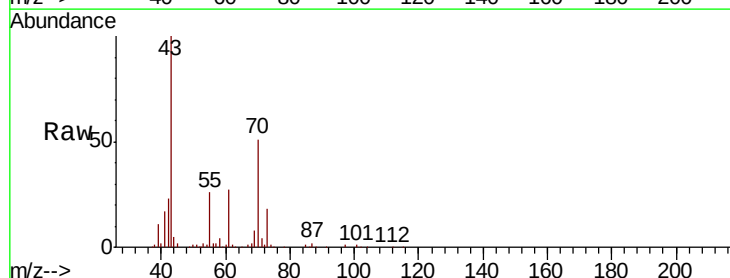
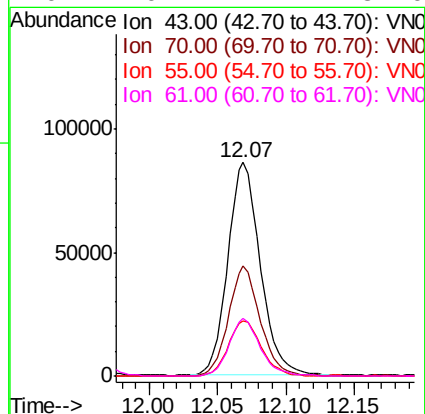
Ion Ratio Lower Upper

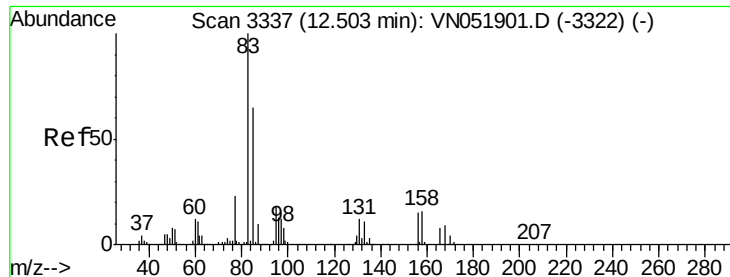
43 100

70 50.5 40.1 60.1

55 26.4 21.0 31.4

61 26.1 21.4 32.0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.754 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

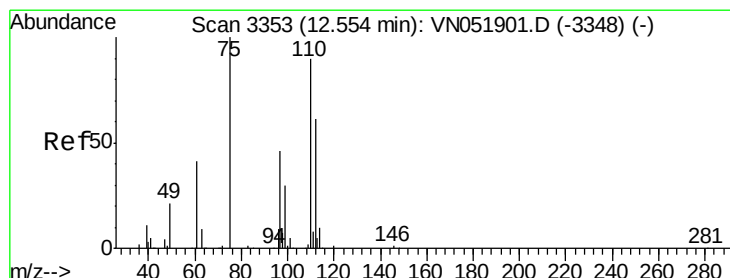
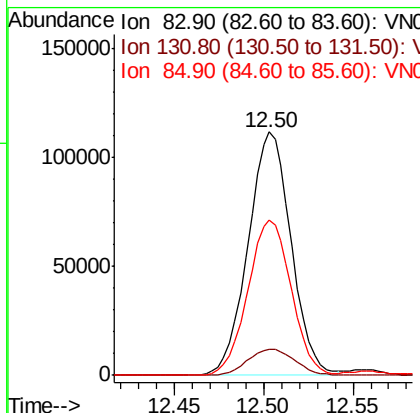
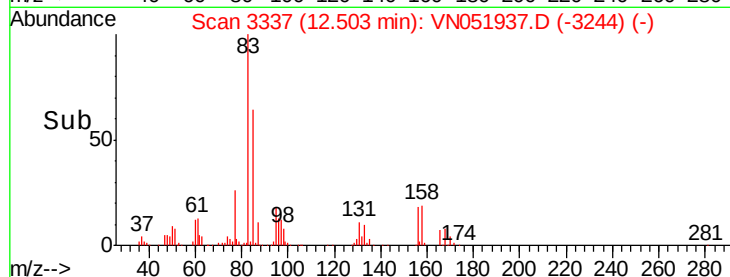
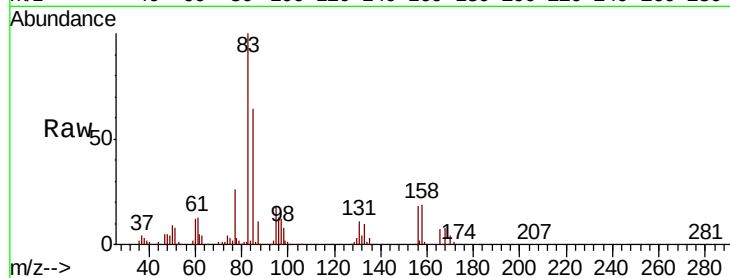
ClientSampleId :

VN1019WBS01

Tot Ion:	83	Resp:	188034
Ion Ratio	Lower	Upper	
83	100		
131	11.9	6.2	18.6
85	64.3	32.6	97.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.117 ug/l m

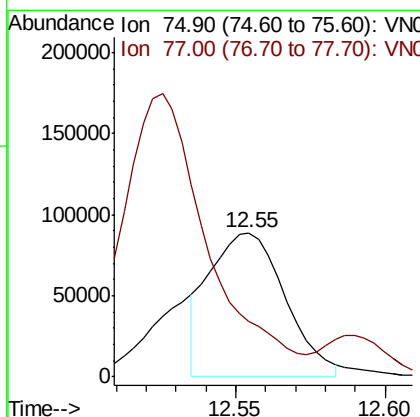
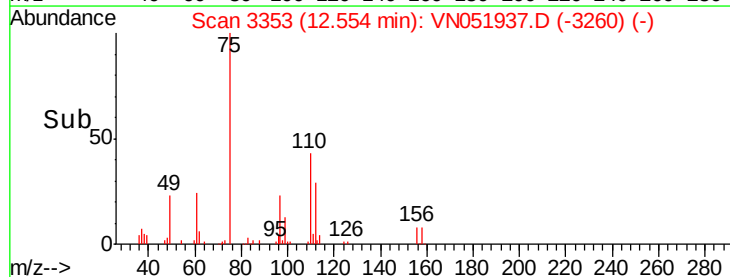
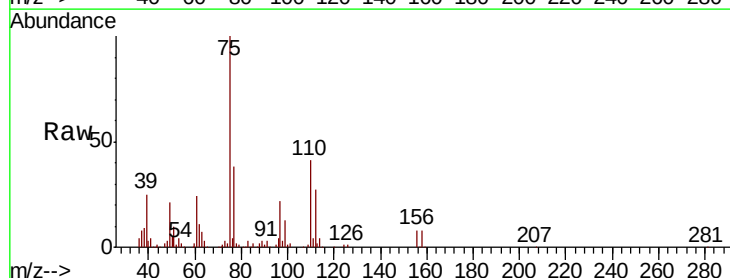
RT: 12.55 min Scan# 3353

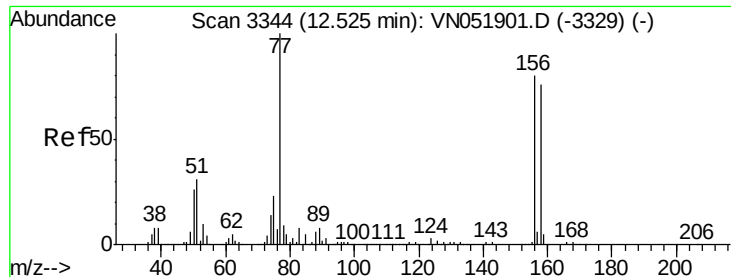
Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Tgt Ion:	75	Resp:	156162
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.761 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

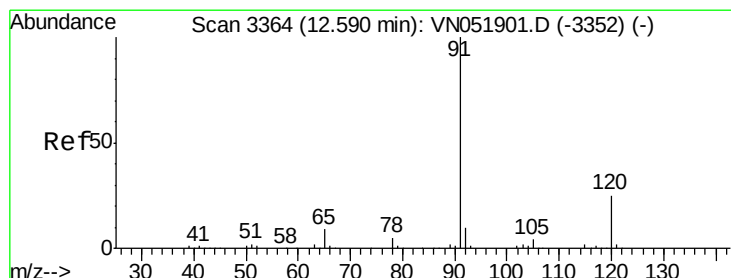
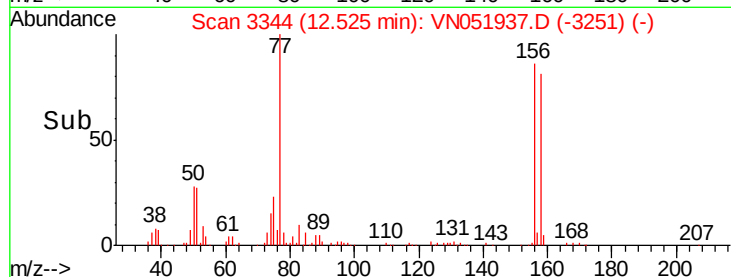
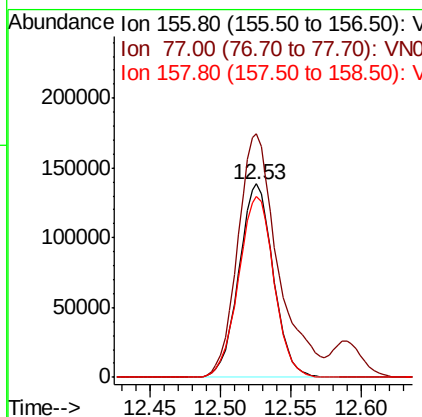
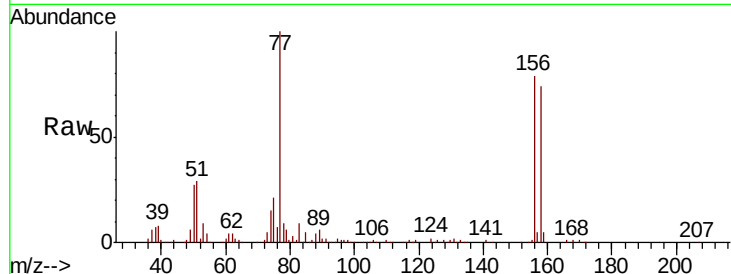
ClientSampleId :

VN1019WBS01

Tot Ion:	156	Resp:	236835
Ion Ratio	Lower	Upper	
156	100		
77	147.9	73.0	219.0
158	96.1	48.4	145.0

Manual Integrations
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#78

n-propylbenzene

Concen: 20.904 ug/l

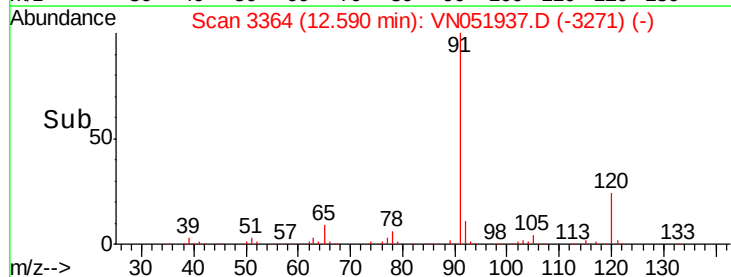
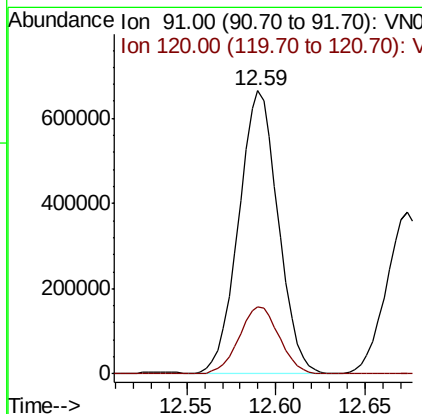
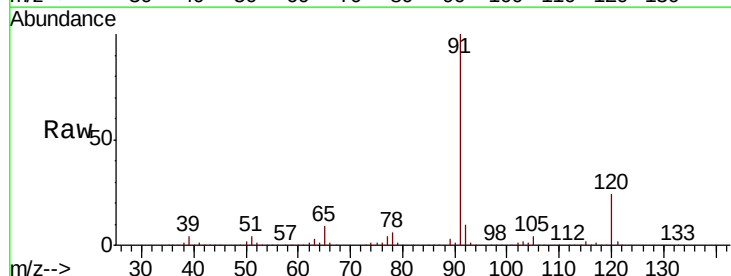
RT: 12.59 min Scan# 3364

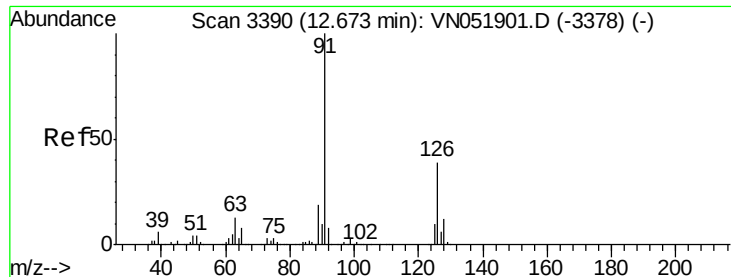
Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Tgt Ion:	91	Resp:	1024952
Ion Ratio	Lower	Upper	
91	100		
120	24.3	12.9	38.7





#79

2-Chlorotoluene

Concen: 21.818 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 91 Resp: 606110

Ion Ratio Lower Upper

91 100

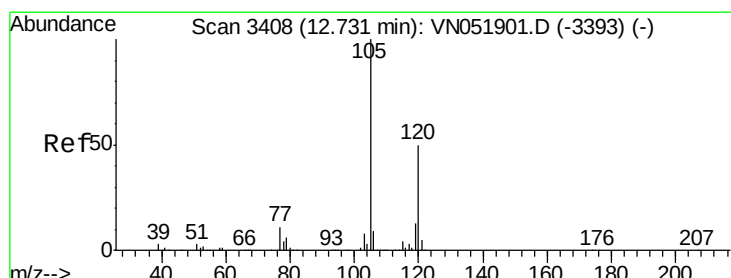
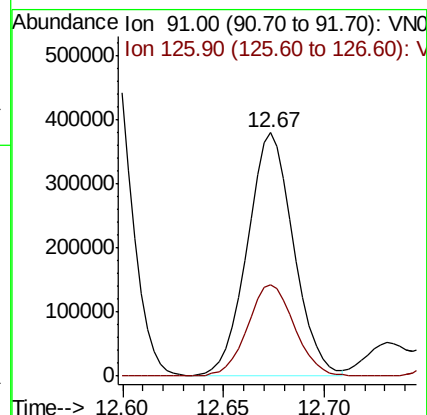
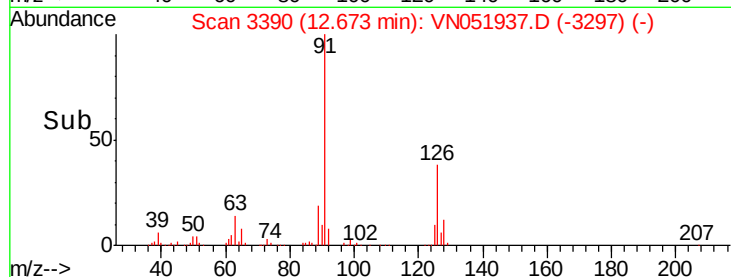
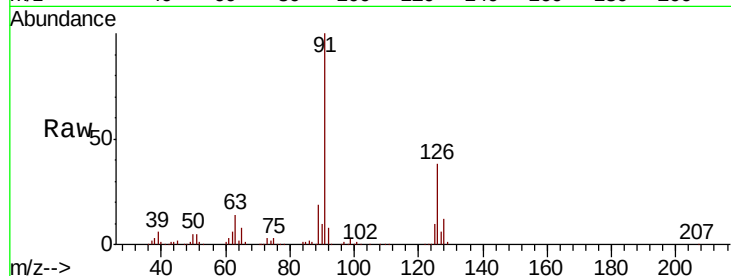
126 38.4 19.6 58.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 20.854 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051937.D

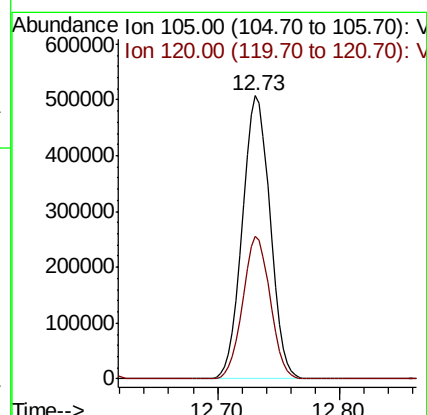
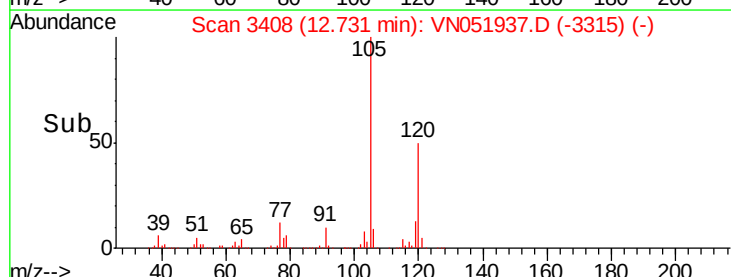
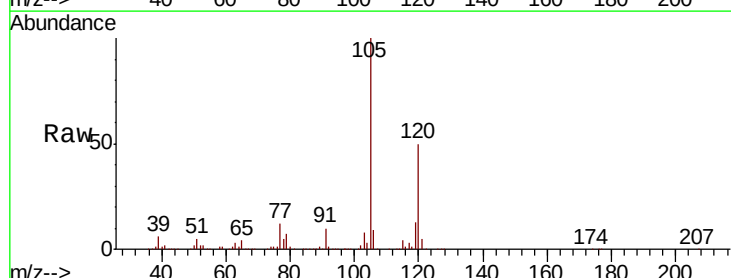
Acq: 19 Oct 2018 10:27

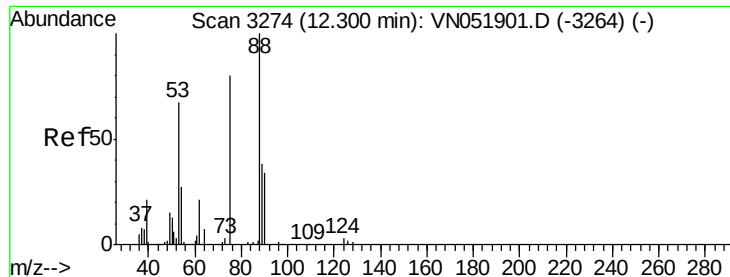
Tgt Ion: 105 Resp: 793934

Ion Ratio Lower Upper

105 100

120 49.6 25.3 75.9





#81

trans-1,4-Dichloro-2-butene

Concen: 15.991 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion: 75 Resp: 35630

Ion Ratio Lower Upper

75 100

53 101.8 68.5 102.7

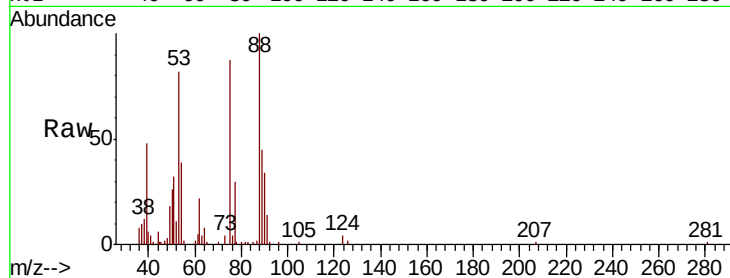
89 54.1 39.0 58.6

Manual Integrations

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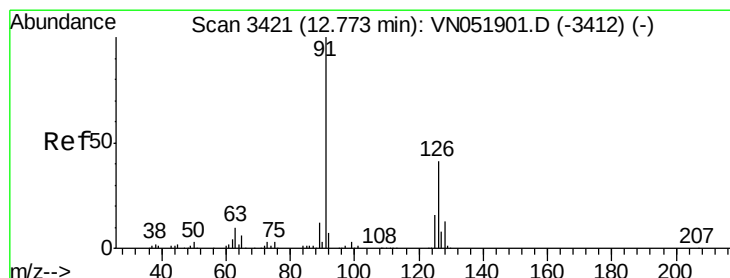
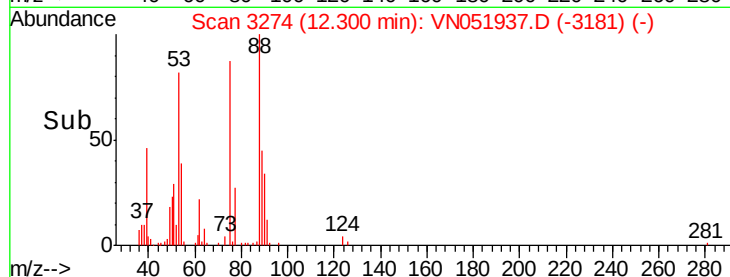
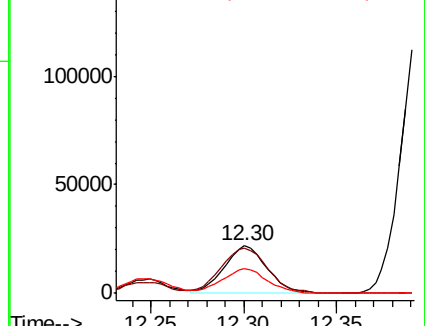
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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 20.516 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN051937.D

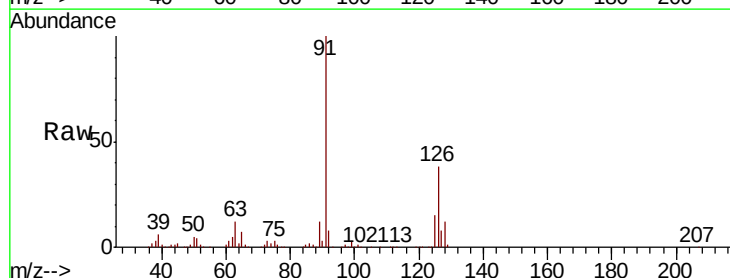
Acq: 19 Oct 2018 10:27

Tgt Ion: 91 Resp: 587828

Ion Ratio Lower Upper

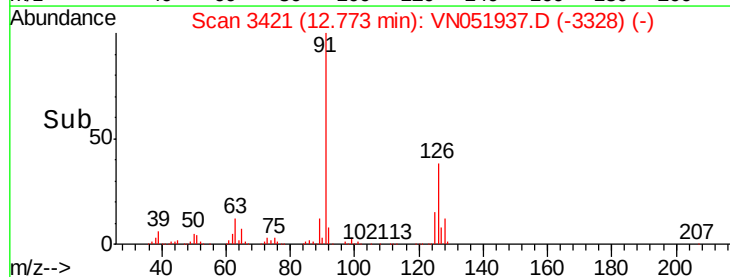
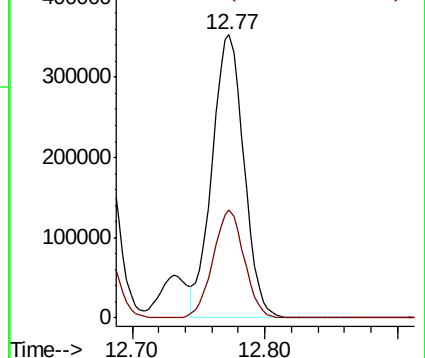
91 100

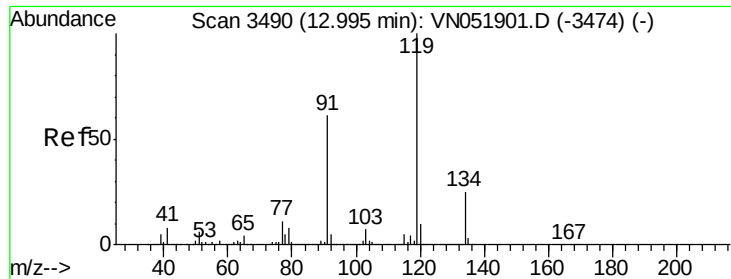
126 37.4 18.9 56.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





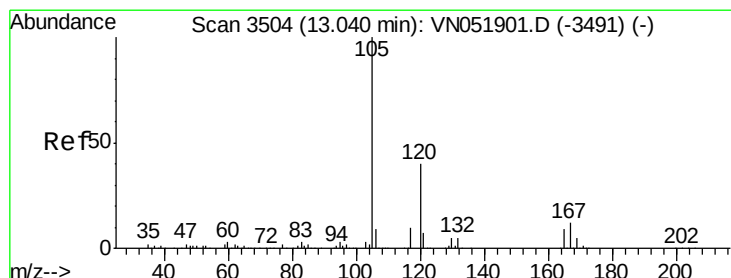
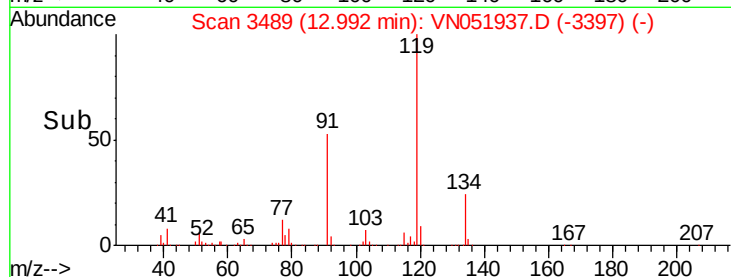
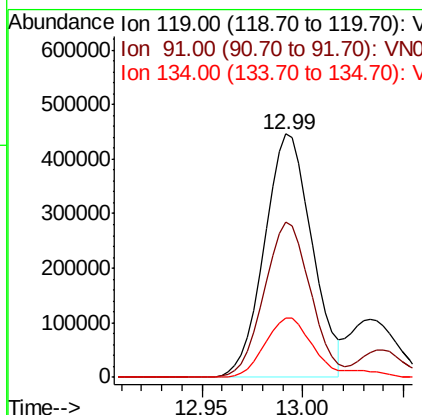
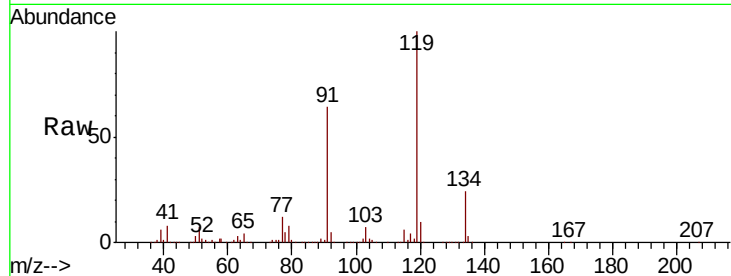
#83
tert-Butylbenzene
Concen: 20.438 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	731191		
91	62.3	30.3	90.9	
134	24.2	13.4	40.1	

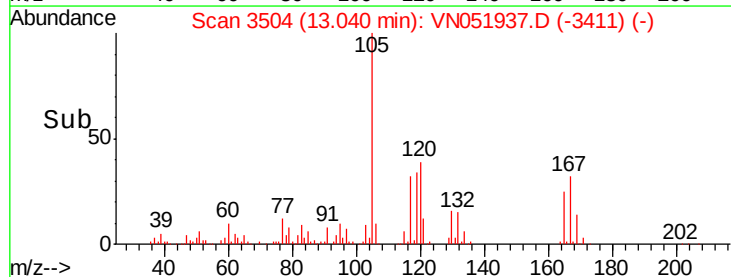
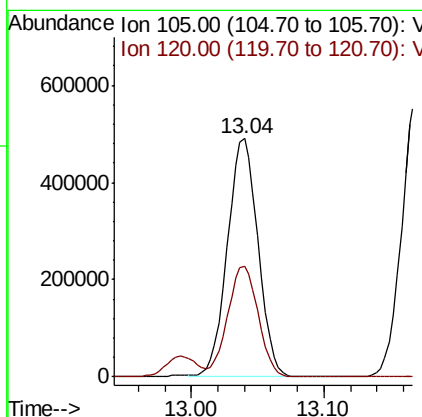
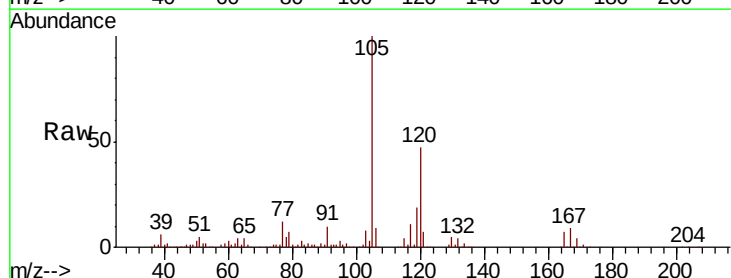
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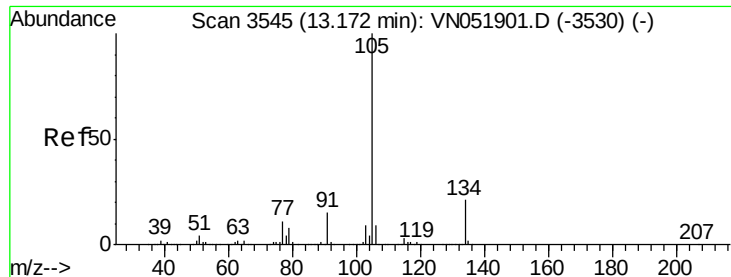
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 20.996 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	785917		
120	46.6	23.8	71.4	





#85

sec-Butylbenzene

Concen: 21.013 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

VN1019WBS01

Tot Ion:105 Resp: 955730

Ion Ratio Lower Upper

105 100

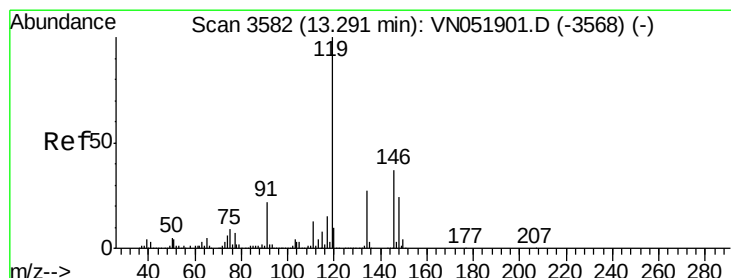
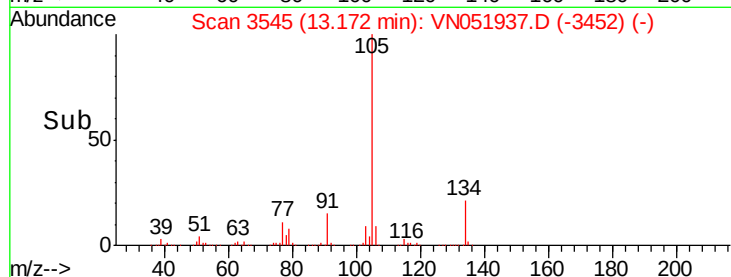
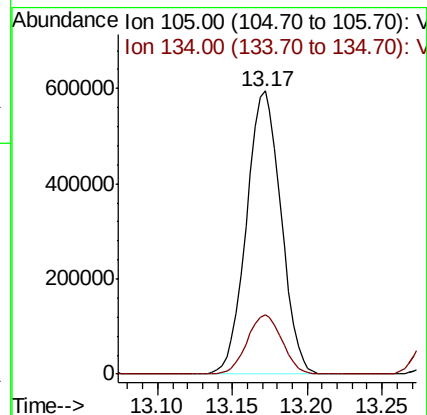
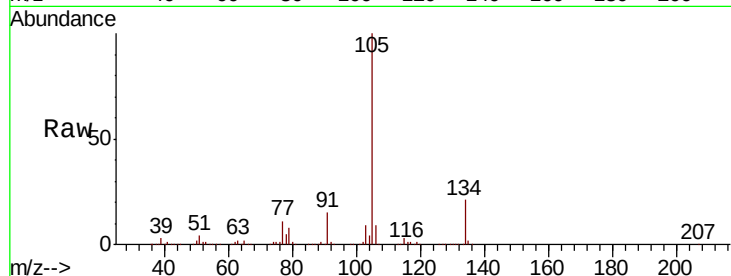
134 21.2 10.8 32.3

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#86

p-Isopropyltoluene

Concen: 21.283 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

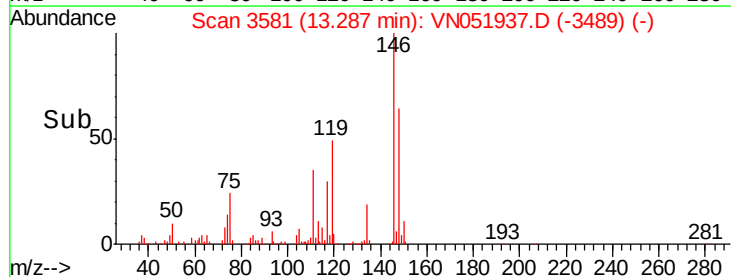
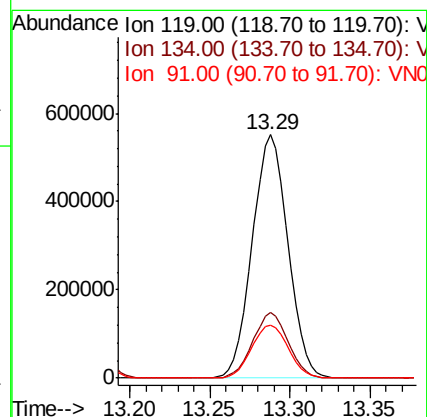
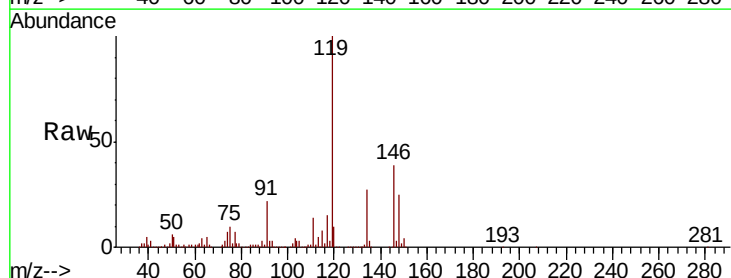
Tgt Ion:119 Resp: 838978

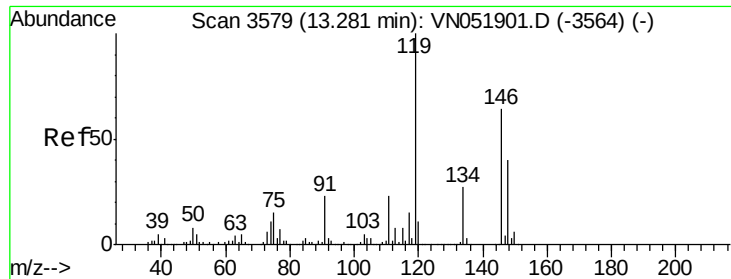
Ion Ratio Lower Upper

119 100

134 26.7 13.8 41.3

91 22.2 10.9 32.9





#87

1,3-Dichlorobenzene

Concen: 20.090 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Instrument :

MSVOA_N

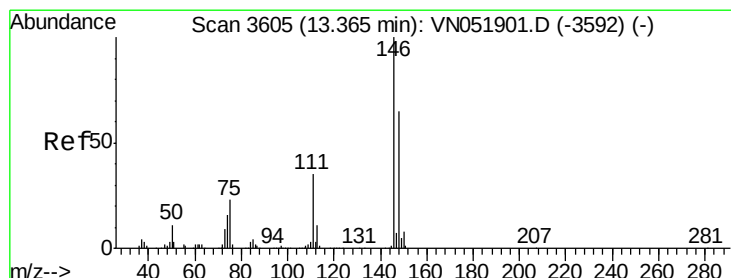
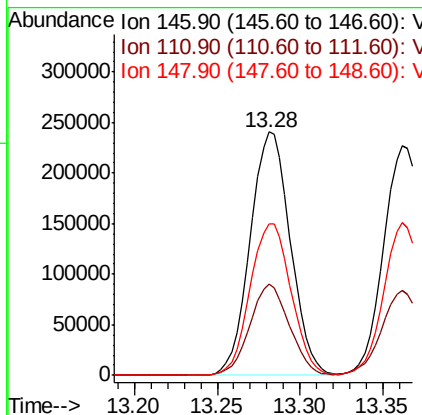
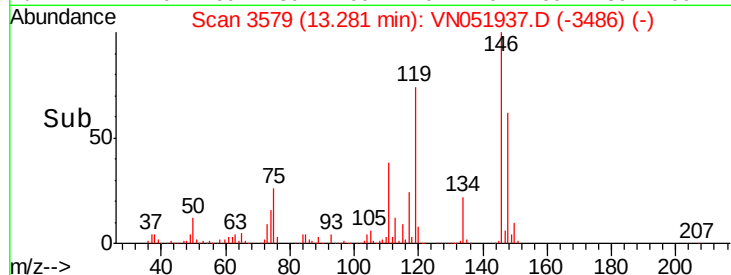
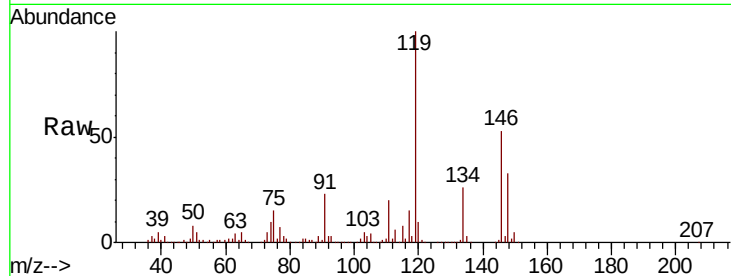
ClientSampleId :

VN1019WBS01

Tot Ion:	146	Resp:	405822
Ion Ratio	Lower	Upper	
146	100		
111	36.8	18.3	54.8
148	63.5	31.9	95.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 19.298 ug/l

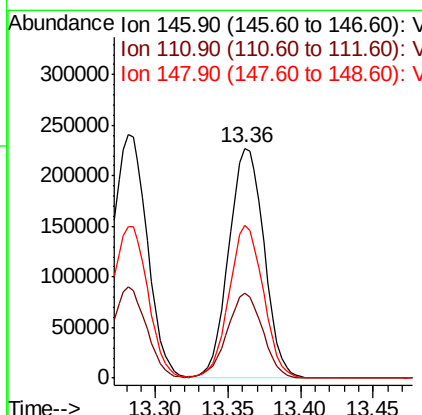
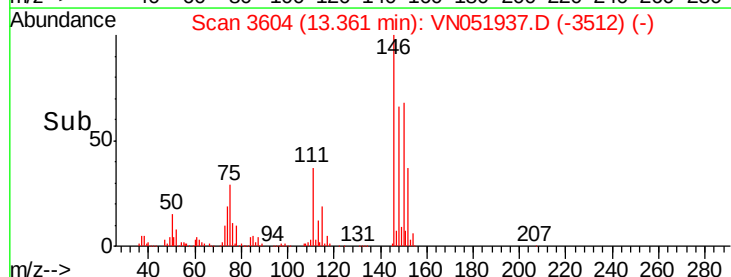
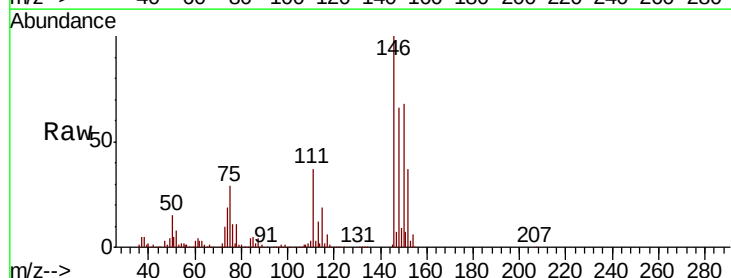
RT: 13.36 min Scan# 3604

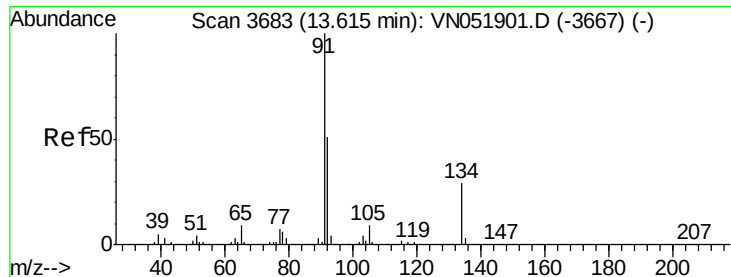
Delta R.T. -0.00 min

Lab File: VN051937.D

Acq: 19 Oct 2018 10:27

Tgt Ion:	146	Resp:	383121
Ion Ratio	Lower	Upper	
146	100		
111	37.6	17.9	53.7
148	64.9	32.8	98.3





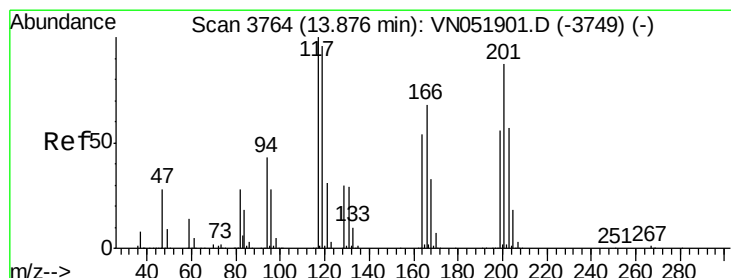
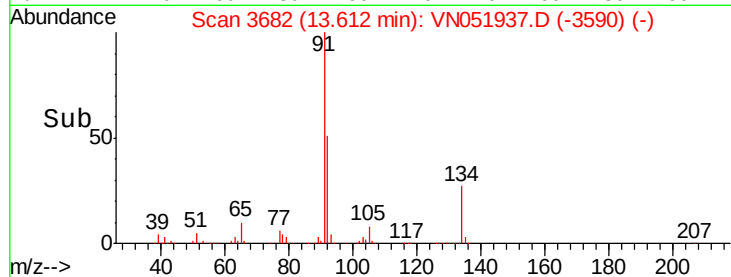
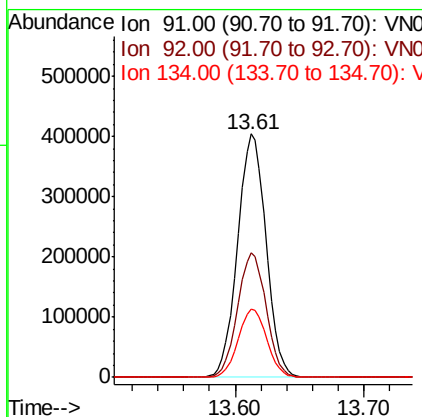
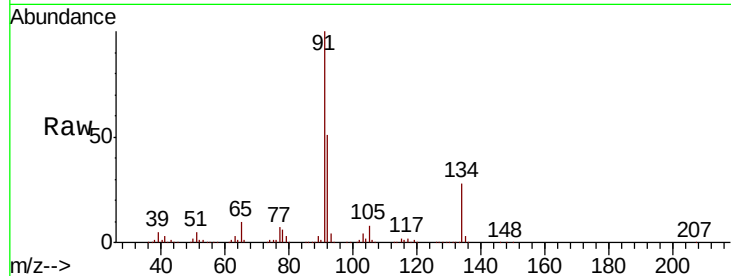
#89
n-Butylbenzene
Concen: 21.677 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.3	25.9	77.7
134	28.3	14.6	43.8

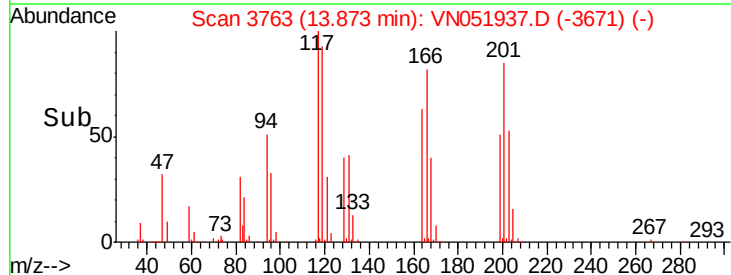
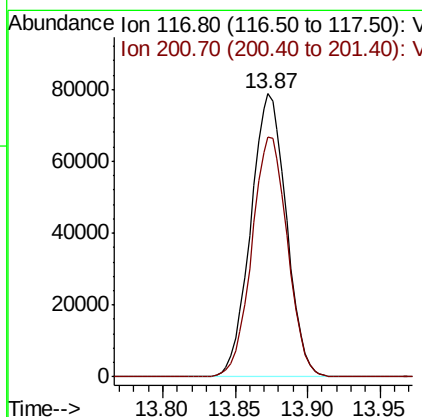
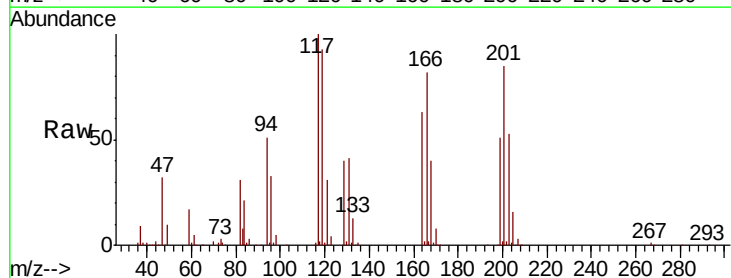
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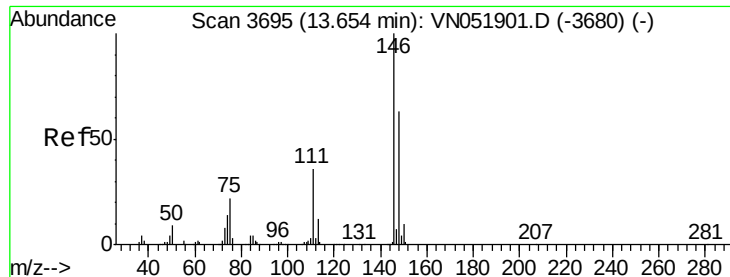
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#90
Hexachloroethane
Concen: 20.441 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.9	43.8	131.3





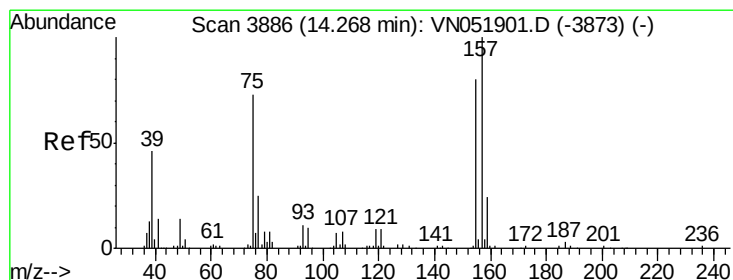
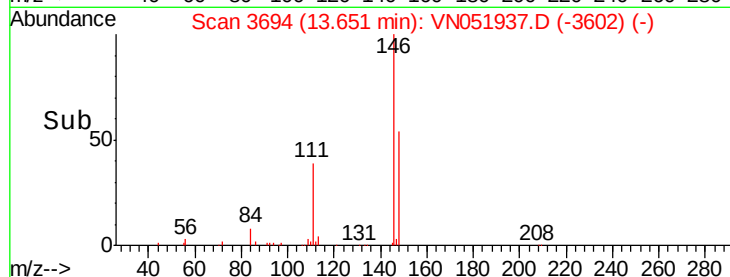
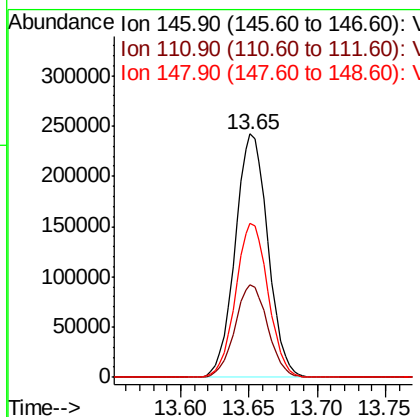
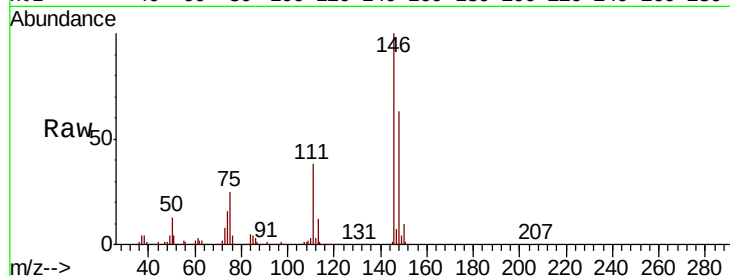
#91
 1,2-Dichlorobenzene
 Concen: 20.552 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	402055		
111	38.2		18.6	55.6
148	62.8		32.0	96.2

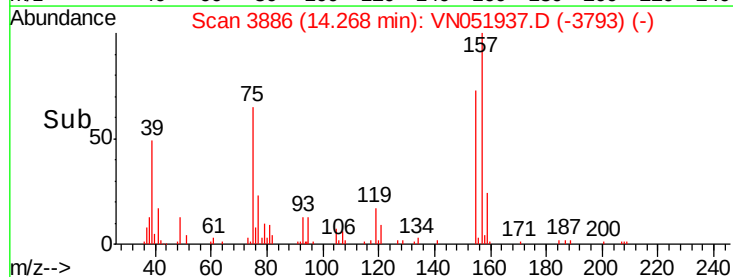
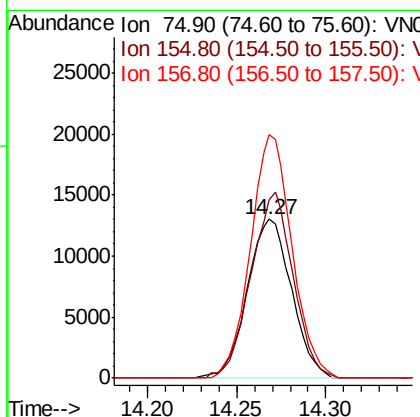
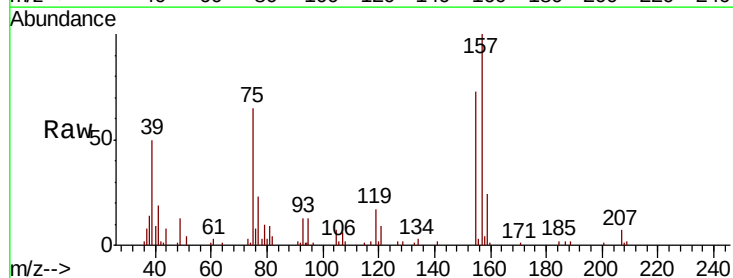
Manual Integrations
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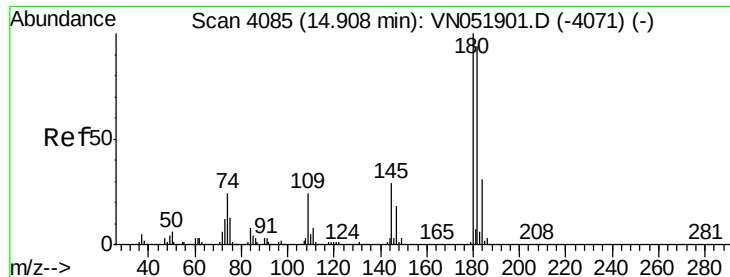
MMDadoda
 10/22/2018 11:35:21 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.660 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	22520		
155	111.6		53.4	160.2
157	144.0		69.3	207.9





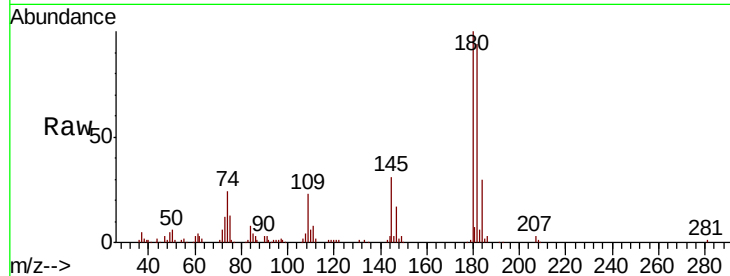
#93
 1,2,4-Trichlorobenzene
 Concen: 17.536 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1019WBS01

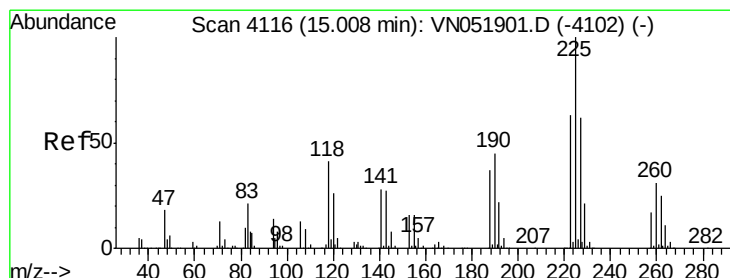
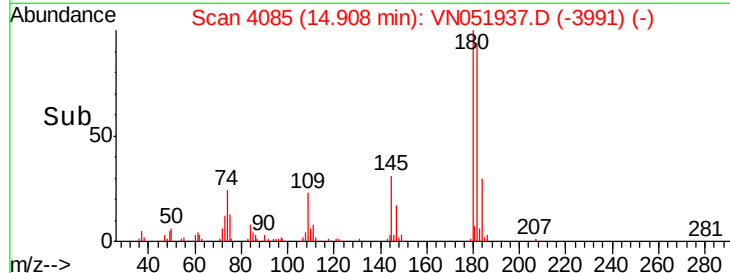
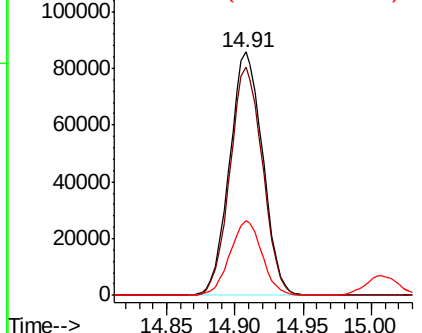
Tot Ion:	180	Resp:	144640
Ion Ratio	Lower	Upper	
180	100		
182	92.1	47.3	141.9
145	29.6	14.5	43.5

Manual Integrations
 APPROVED

MMDadoda
 10/22/2018 11:35:21 AM

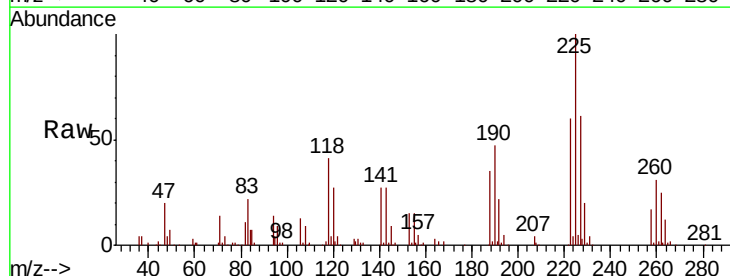


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

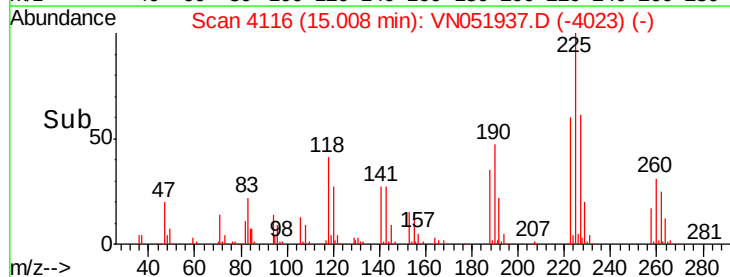
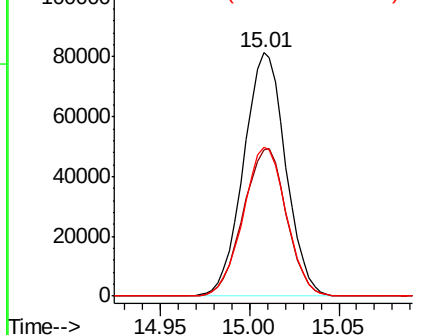


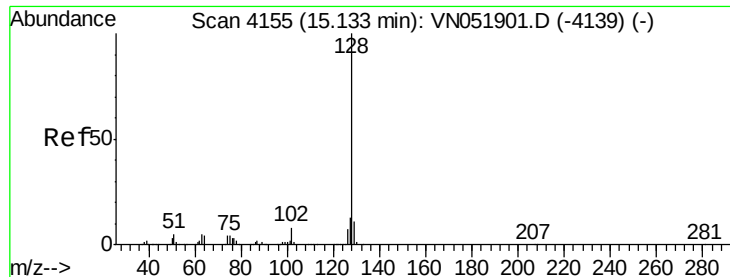
#94
 Hexachlorobutadiene
 Concen: 21.633 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN051937.D
 Acq: 19 Oct 2018 10:27

Tgt Ion:	225	Resp:	134011
Ion Ratio	Lower	Upper	
225	100		
223	62.4	32.0	96.2
227	62.7	31.9	95.9



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





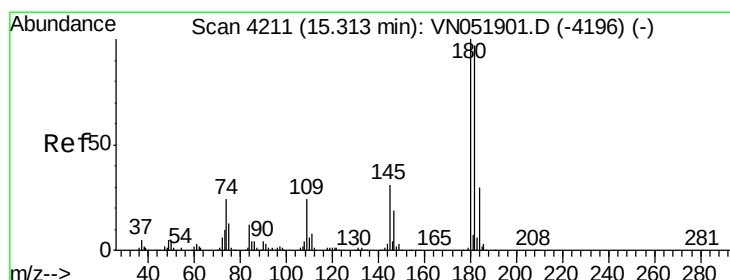
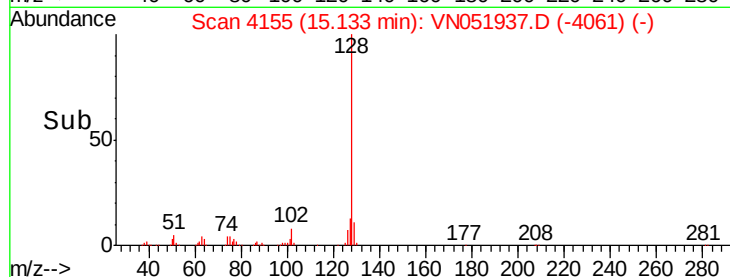
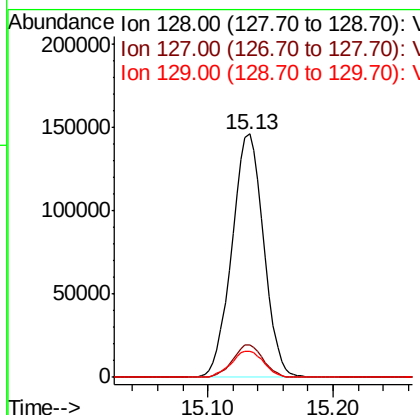
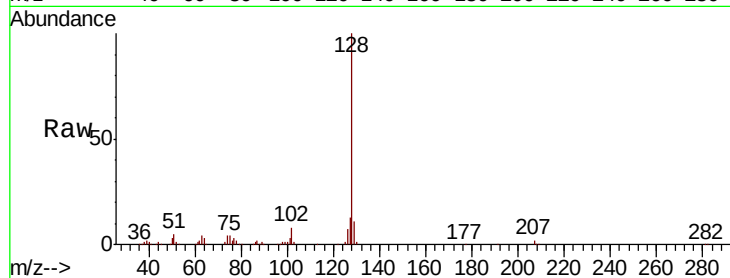
#95
Naphthalene
Concen: 15.907 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampleId :
VN1019WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	256828		
127	12.8		10.2	15.2
129	11.1		8.5	12.7

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 17.733 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN051937.D
Acq: 19 Oct 2018 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	149252		
182	94.7		47.9	143.8
145	31.4		15.2	45.6

