

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101118\
 Data File : VN051809.D
 Acq On : 11 Oct 2018 11:22
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 3:00:18 PM

Quant Time: Oct 11 12:36:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 12:23:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	911738	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1354945	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1217851	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	551811	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	174236	15.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	31.74%	
35) Dibromofluoromethane	7.59	113	162292	15.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	30.12%	
50) Toluene-d8	10.09	98	607614	15.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	30.16%	
62) 4-Bromofluorobenzene	12.40	95	201199	15.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	30.04%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	95062	7.79	ug/l	100
3) Chloromethane	2.06	50	121725	8.09	ug/l	99
4) Vinyl Chloride	2.18	62	188750	13.24	ug/l	97
5) Bromomethane	2.56	94	166862	18.18	ug/l	97
6) Chloroethane	2.70	64	137786	16.73	ug/l	99
7) Trichlorofluoromethane	3.01	101	277510	15.20	ug/l	98
8) Diethyl Ether	3.41	74	76438	12.31	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	3.75	101	141858	12.44	ug/l	97
10) Methyl Iodide	3.95	142	179338	19.81	ug/l	95
11) Tert butyl alcohol	4.81	59	62888	89.98	ug/l	99
12) 1,1-Dichloroethene	3.73	96	130414	12.74	ug/l	92
13) Acrolein	3.61	56	67478	176.75	ug/l	94
14) Allyl chloride	4.32	41	165516	10.37	ug/l #	79
15) Acrylonitrile	4.99	53	215044	60.54	ug/l	98
16) Acetone	3.82	43	196357	66.20	ug/l	99
17) Carbon Disulfide	4.05	76	339151	9.88	ug/l	99
18) Methyl Acetate	4.34	43	101641	9.81	ug/l	93
19) Methyl tert-butyl Ether	5.05	73	419458	16.28	ug/l	97
20) Methylene Chloride	4.55	84	151916	12.28	ug/l	90
21) trans-1,2-Dichloroethene	5.04	96	152052	13.73	ug/l	88
22) Diisopropyl ether	5.96	45	369982	11.63	ug/l #	85
23) Vinyl Acetate	5.90	43	1357333	66.28	ug/l #	92
24) 1,1-Dichloroethane	5.85	63	248557	12.17	ug/l	96
25) 2-Butanone	6.84	43	277341	62.70	ug/l	90
26) 2,2-Dichloropropane	6.83	77	251360	15.32	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	176561	14.79	ug/l	91
28) Bromochloromethane	7.20	49	112808	13.00	ug/l #	72
29) Tetrahydrofuran	7.22	42	161557	63.70	ug/l #	81
30) Chloroform	7.37	83	297362	14.71	ug/l	100
31) Cyclohexane	7.66	56	222470	10.97	ug/l #	79
32) 1,1,1-Trichloroethane	7.57	97	277520	15.98	ug/l	97
36) 1,1-Dichloropropene	7.80	75	209510	13.10	ug/l	95
37) Ethyl Acetate	6.94	43	115360	12.56	ug/l	97
38) Carbon Tetrachloride	7.78	117	245879	15.21	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	263231	15.22	ug/l	91
40) Benzene	8.04	78	634829	13.17	ug/l	99
41) Methacrylonitrile	7.18	41	49644m	9.99	ug/l	
42) 1,2-Dichloroethane	8.13	62	208459	14.46	ug/l	99
43) Isopropyl Acetate	8.17	43	227569	14.41	ug/l	95
44) Trichloroethene	8.84	130	191280	15.04	ug/l	98
45) 1,2-Dichloropropane	9.12	63	148958	11.76	ug/l	98
46) Dibromomethane	9.21	93	112450	15.10	ug/l	99
47) Bromodichloromethane	9.41	83	226161	14.50	ug/l	99
48) Methyl methacrylate	9.20	41	100141	12.44	ug/l #	78
49) 1,4-Dioxane	9.20	88	35352m	322.22	ug/l	
51) 4-Methyl-2-Pentanone	9.99	43	607255	64.44	ug/l	98
52) Toluene	10.16	92	421277	14.75	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	223746	14.41	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	250392	14.09	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	158248	14.93	ug/l	97
56) Ethyl methacrylate	10.43	69	191179	15.90	ug/l #	89
57) 1,3-Dichloropropane	10.71	76	247449	14.14	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	401438	78.20	ug/l	91
59) 2-Hexanone	10.75	43	418308	66.68	ug/l	97
60) Dibromochloromethane	10.90	129	184880	15.58	ug/l	97
61) 1,2-Dibromoethane	11.01	107	165122	16.11	ug/l	98
64) Tetrachloroethene	10.63	164	184653	15.96	ug/l	98
65) Chlorobenzene	11.44	112	480411	15.09	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	184279	15.82	ug/l	99
67) Ethyl Benzene	11.51	91	816943	15.79	ug/l	97
68) m/p-Xylenes	11.62	106	652899	33.24	ug/l	96
69) o-Xylene	11.95	106	320898	16.99	ug/l	95
70) Styrene	11.97	104	484531	16.41	ug/l	99
71) Bromoform	12.13	173	120446	15.04	ug/l	99
73) Isopropylbenzene	12.25	105	849088	18.58	ug/l	100
74) N-amyl acetate	12.07	43	175887	15.32	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	189576	15.40	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	151740m	15.70	ug/l	
77) Bromobenzene	12.53	156	205285	16.53	ug/l	92
78) n-propylbenzene	12.59	91	900351	17.64	ug/l	97
79) 2-Chlorotoluene	12.68	91	526992	16.58	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	695231	18.86	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	47559	16.63	ug/l	96
82) 4-Chlorotoluene	12.77	91	516498	16.46	ug/l	97
83) tert-Butylbenzene	12.99	119	632395	19.81	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	705889	19.03	ug/l	99
85) sec-Butylbenzene	13.17	105	827148	19.77	ug/l	99
86) p-Isopropyltoluene	13.29	119	722829	20.28	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	356335	16.91	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	348295	16.79	ug/l	99
89) n-Butylbenzene	13.62	91	552699	19.38	ug/l	98
90) Hexachloroethane	13.88	117	124895	16.93	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	352569	17.34	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28052	17.09	ug/l	94

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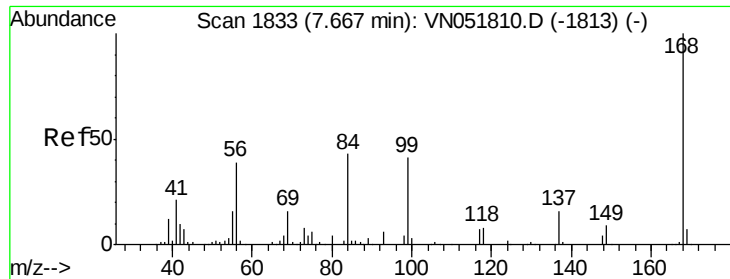
Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:18 PM

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	147633	16.68	ug/l	97
94) Hexachlorobutadiene	15.01	225	112338	16.95	ug/l	99
95) Naphthalene	15.14	128	310503	17.78	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	156490	18.16	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 168 Resp: 911738

Ion Ratio Lower Upper

168 100

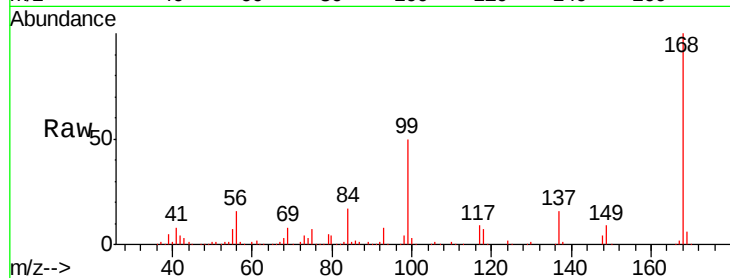
99 50.1 39.6 59.4

Manual Integrations

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10/15/2018 3:00:18 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

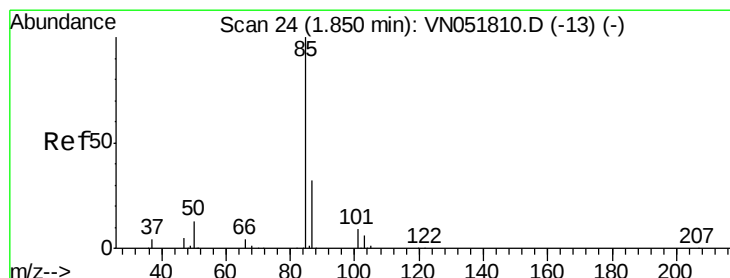
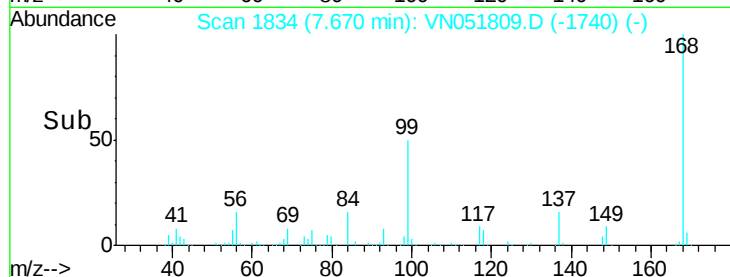
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 7.79 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN051809.D

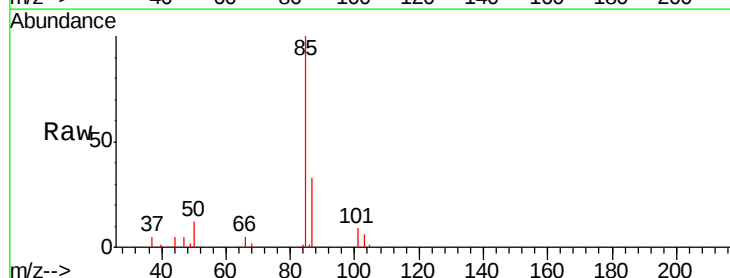
Acq: 11 Oct 2018 11:22

Tgt Ion: 85 Resp: 95062

Ion Ratio Lower Upper

85 100

87 32.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

80000

60000

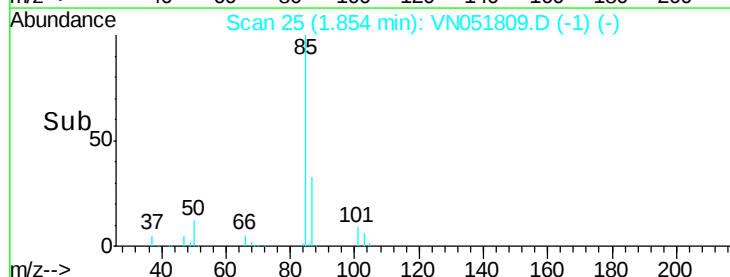
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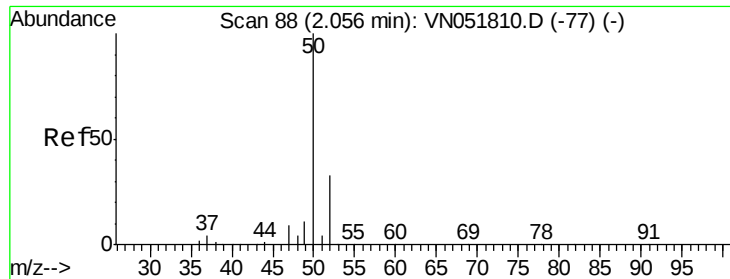
20000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 8.09 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 50 Resp: 121725

Ion Ratio Lower Upper

50 100

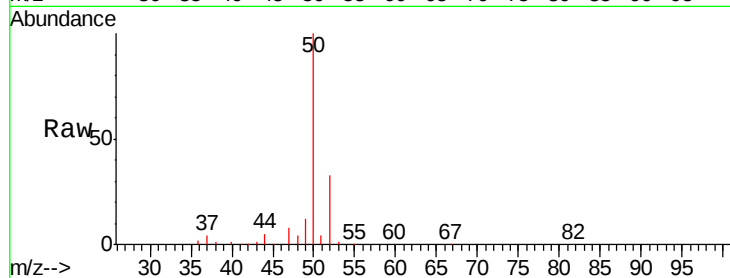
52 33.3 26.3 39.5

Manual Integrations

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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

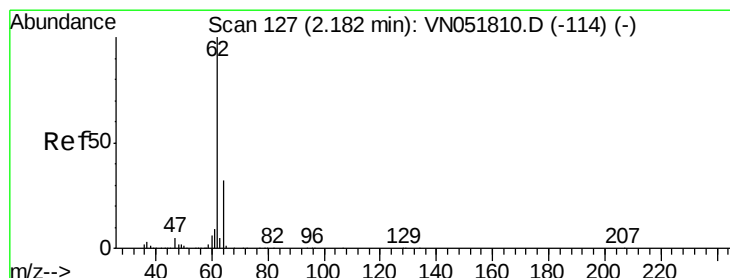
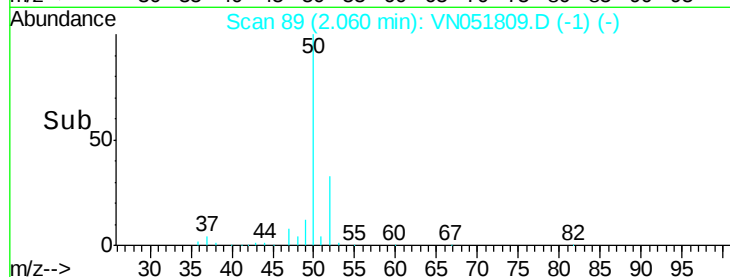
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 13.24 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN051809.D

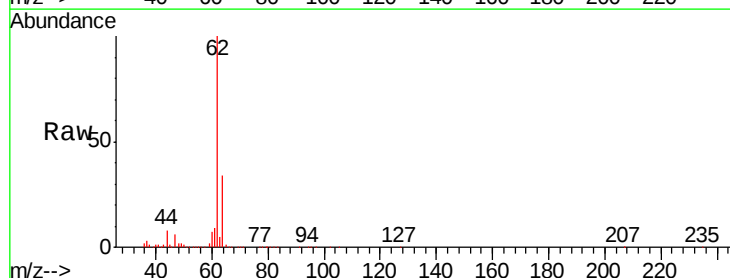
Acq: 11 Oct 2018 11:22

Tgt Ion: 62 Resp: 188750

Ion Ratio Lower Upper

62 100

64 33.7 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.18

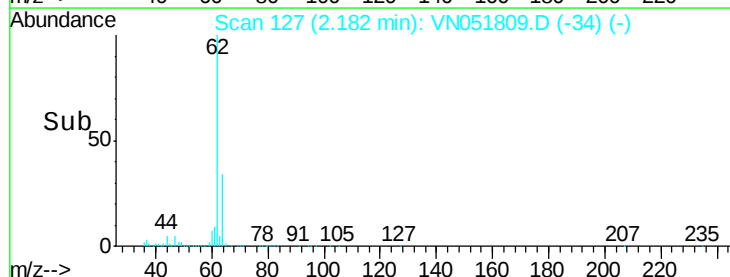
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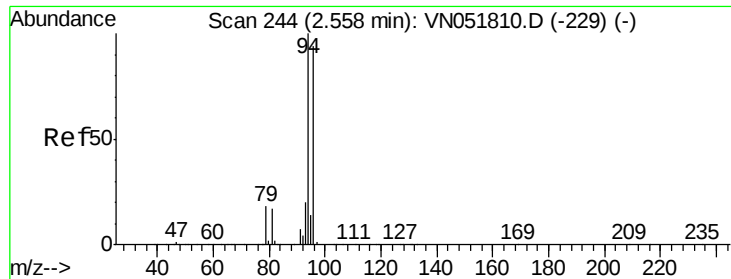
100000

50000

0

Time-->





#5

Bromomethane

Concen: 18.18 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.01 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 94 Resp: 166862

Ion Ratio Lower Upper

94 100

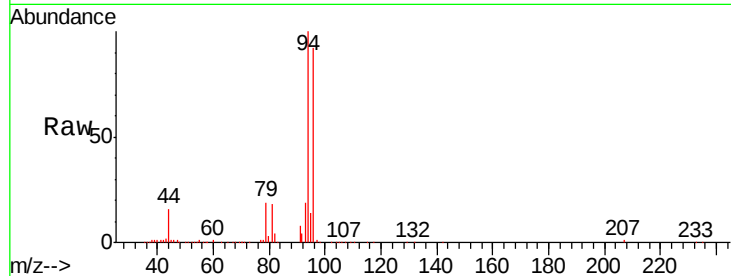
96 92.3 76.2 114.2

Manual Integrations

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10/15/2018 3:00:18 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

100000

80000

60000

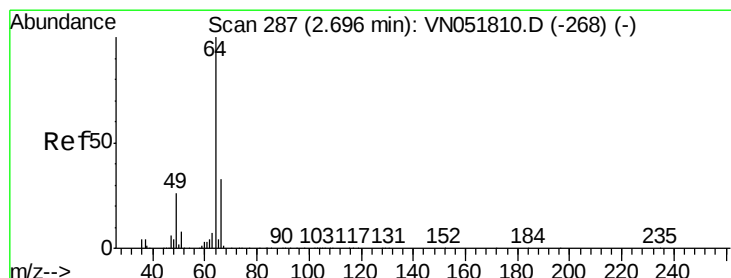
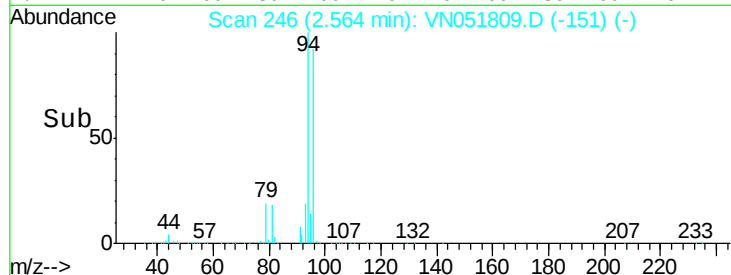
40000

20000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 16.73 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.00 min

Lab File: VN051809.D

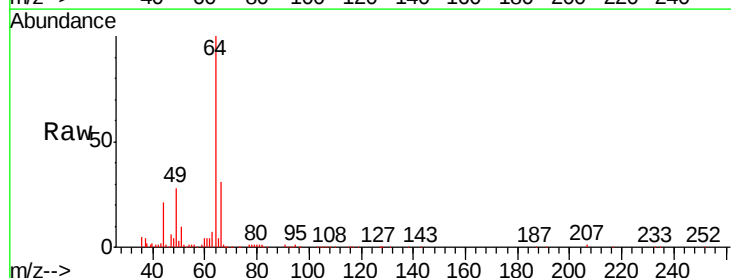
Acq: 11 Oct 2018 11:22

Tgt Ion: 64 Resp: 137786

Ion Ratio Lower Upper

64 100

66 31.2 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

80000

60000

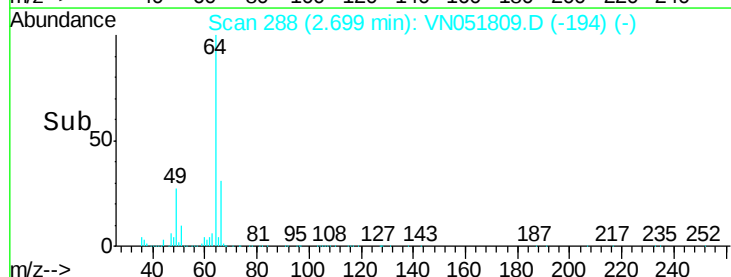
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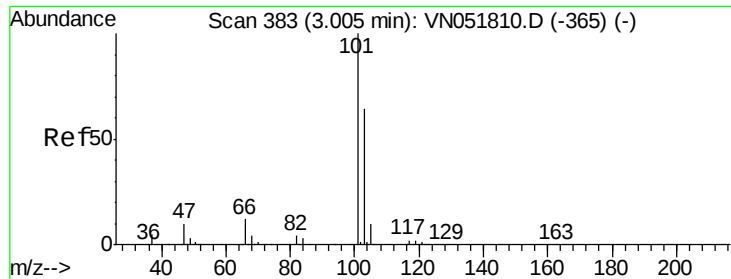
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Time-->

2.60 2.70 2.80





#7

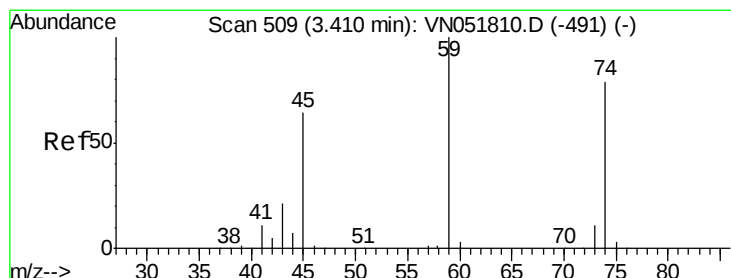
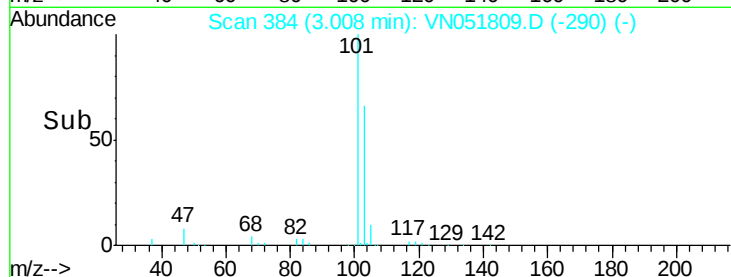
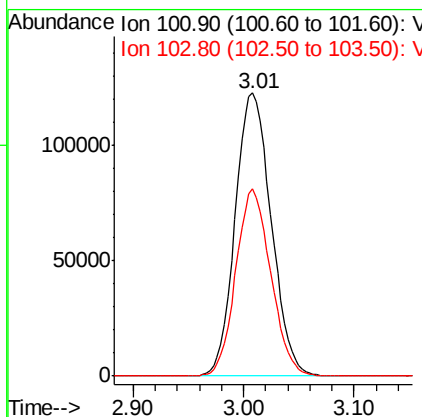
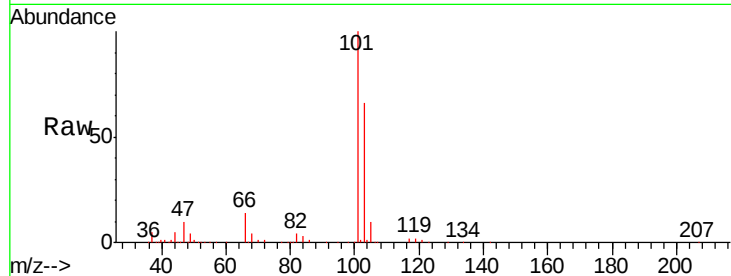
Trichlorofluoromethane
Concen: 15.20 ug/l
RT: 3.01 min Scan# 384
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	277510		
103	66.1	51.6	51.6	77.4

Manual Integrations
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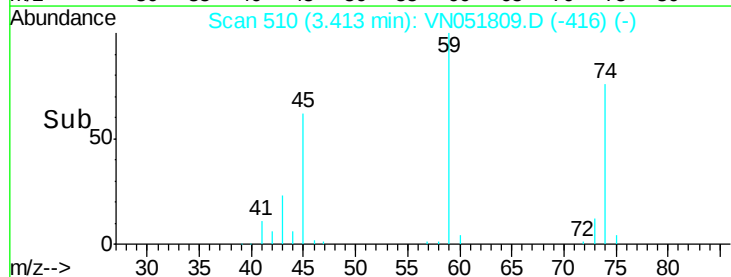
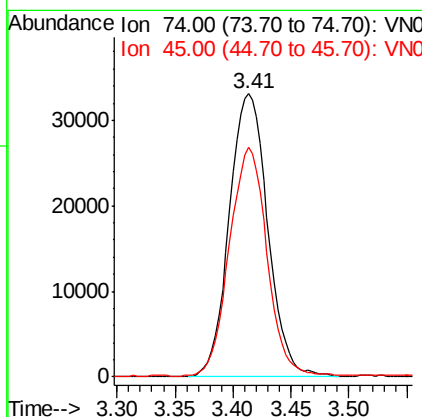
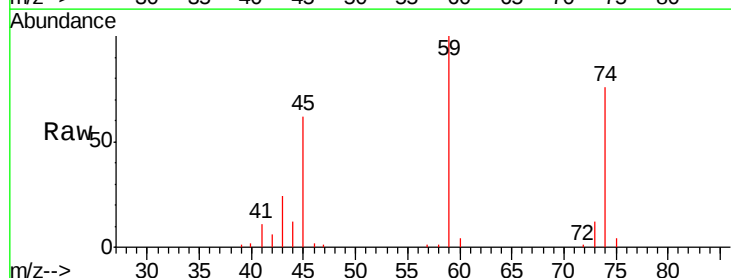
MMDadoda
10/15/2018 3:00:18 PM

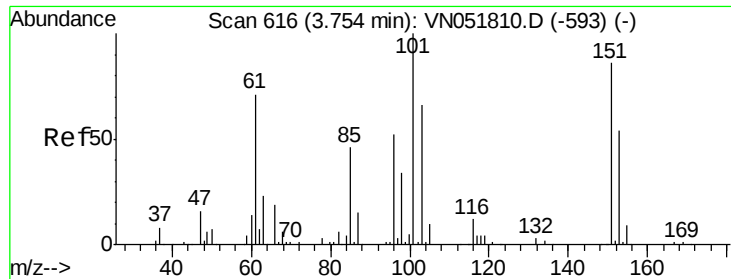


#8

Diethyl Ether
Concen: 12.31 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	76438		
45	80.0	48.2	48.2	144.6





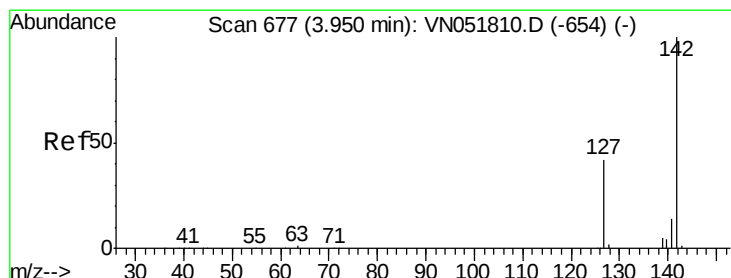
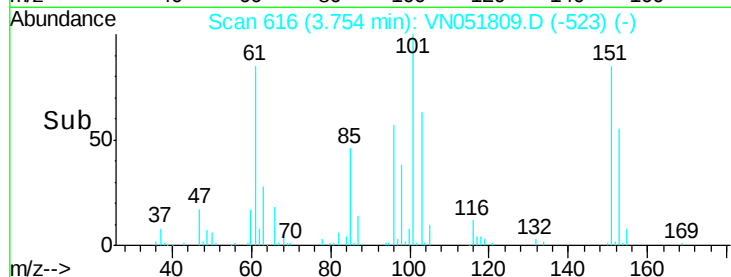
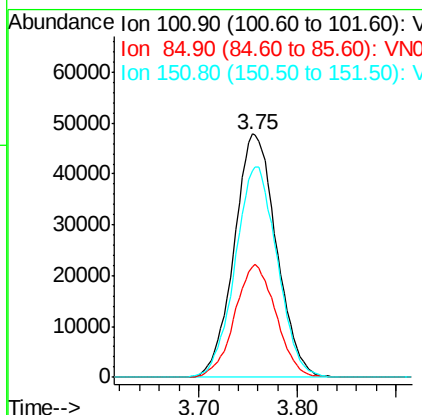
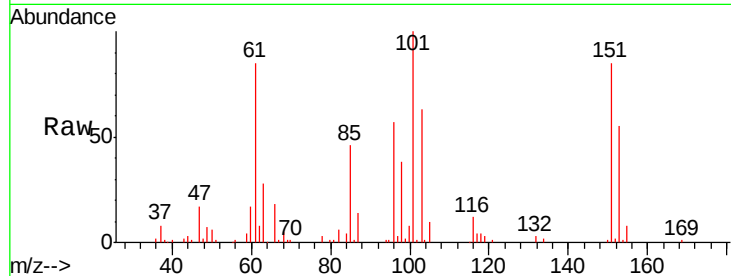
#9
1,1,2-Trichlorotrifluoroethane
Concen: 12.44 ug/l
RT: 3.75 min Scan# 616
Delta R.T. 0.00 min
Lab File: VN051809.D
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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	141858		
85	45.4	33.7	50.5	
151	86.3	67.4	101.2	

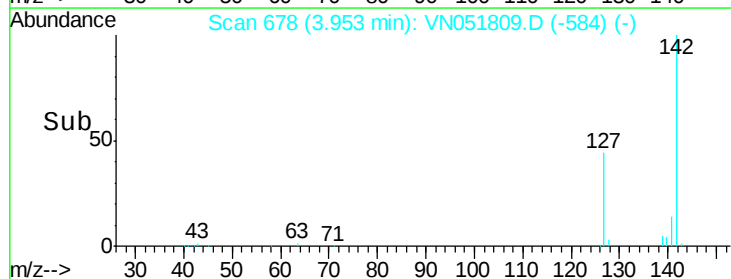
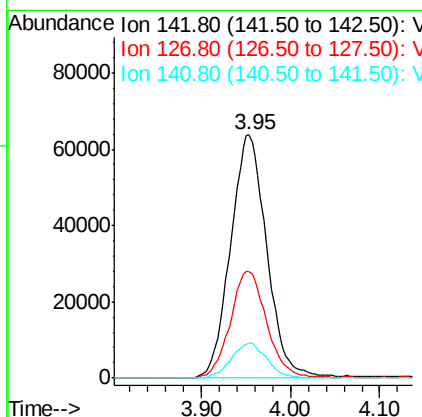
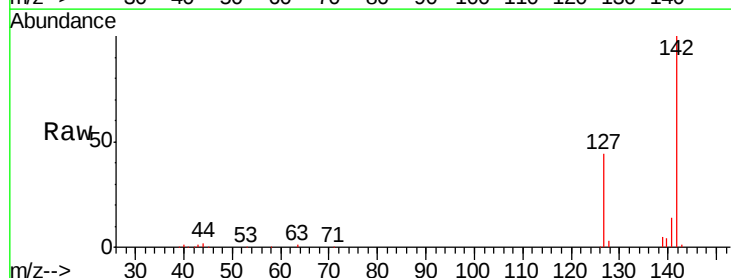
Manual Integrations
APPROVED

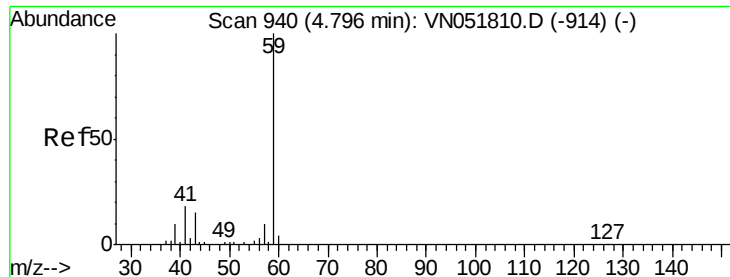
MMDadoda
10/15/2018 3:00:18 PM



#10
Methyl Iodide
Concen: 19.81 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	179338		
127	44.1	31.7	47.5	
141	14.2	11.4	17.0	





#11

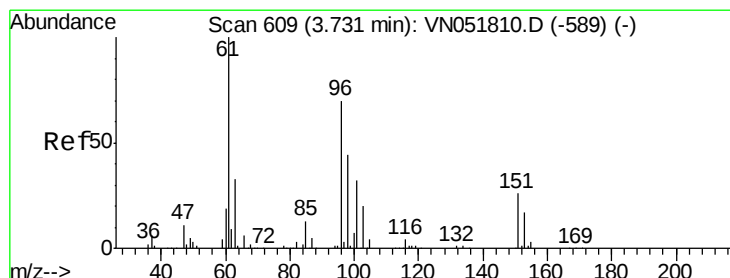
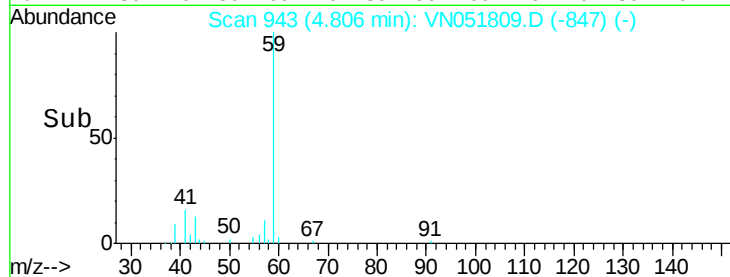
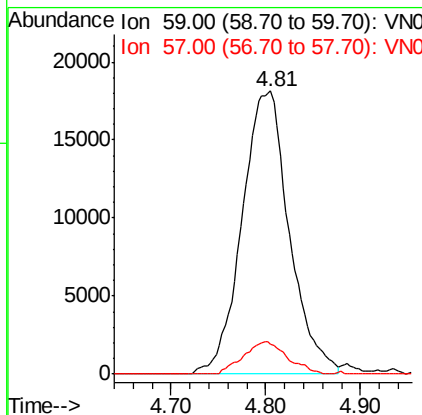
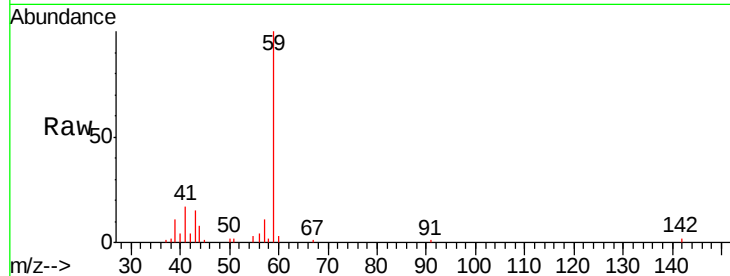
Tert butyl alcohol
Concen: 89.98 ug/l
RT: 4.81 min Scan# 943
Delta R.T. 0.01 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.3	12.5

Manual Integrations
APPROVED

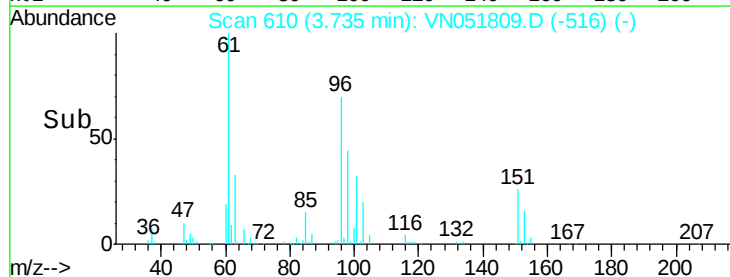
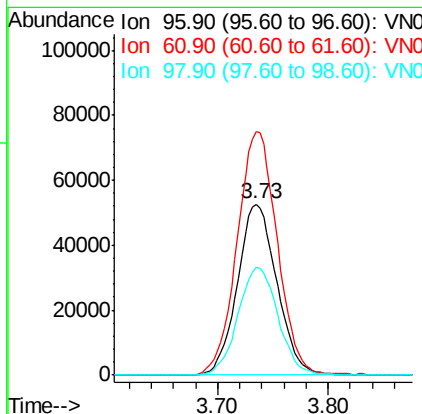
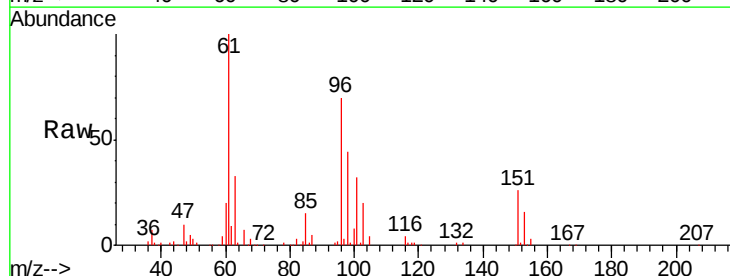
MMDadoda
10/15/2018 3:00:18 PM

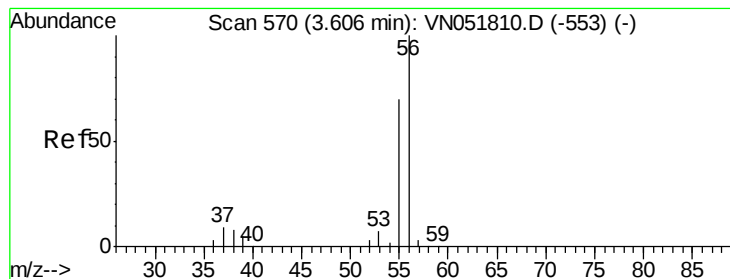


#12

1,1-Dichloroethene
Concen: 12.74 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	142.6	124.9	187.3
98	63.2	51.1	76.7





#13

Acrolein

Concen: 176.75 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 67478

Ion Ratio Lower Upper

56 100

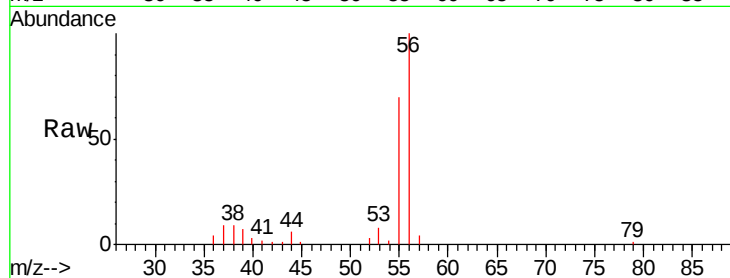
55 67.0 57.7 86.5

Manual Integrations

APPROVED

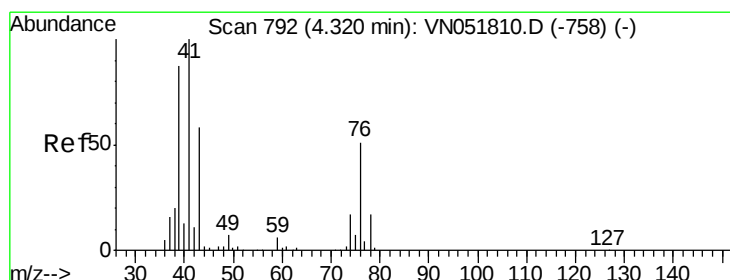
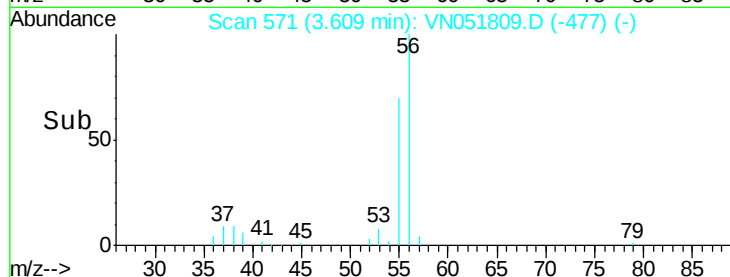
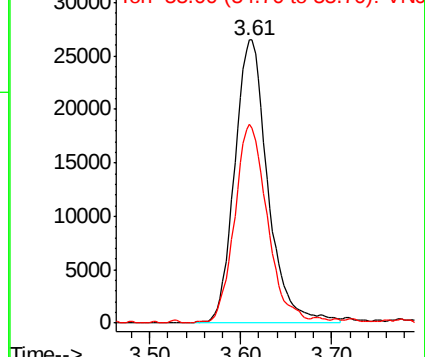
MMDadoda

10/15/2018 3:00:18 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 10.37 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

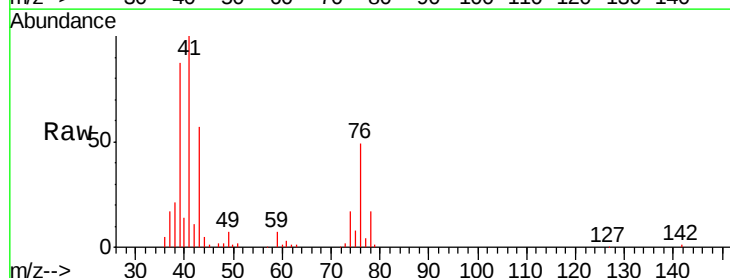
Tgt Ion: 41 Resp: 165516

Ion Ratio Lower Upper

41 100

39 81.0 50.2 75.2#

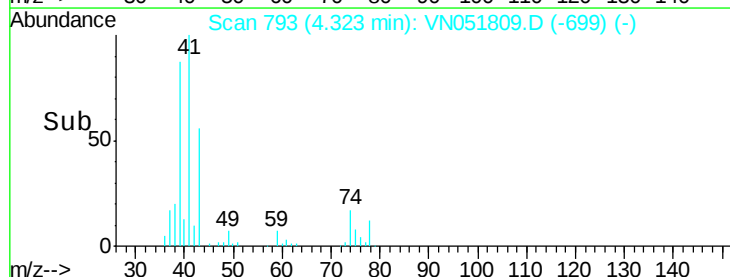
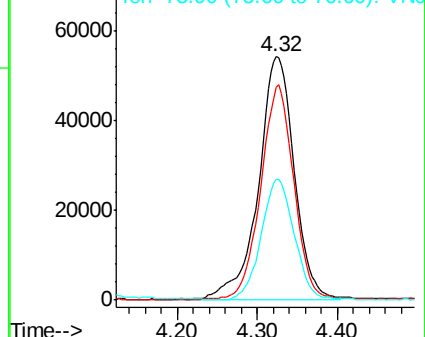
76 46.6 29.8 44.8#

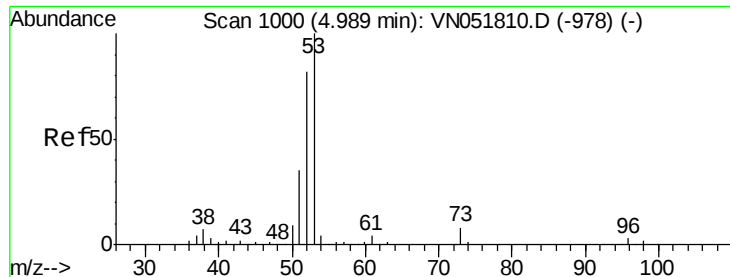


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 60.54 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

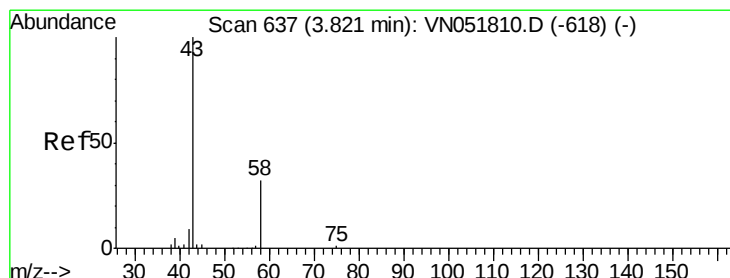
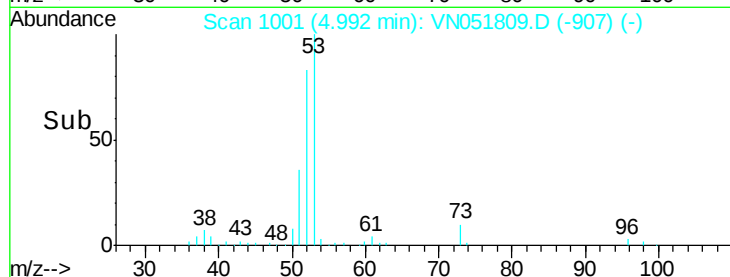
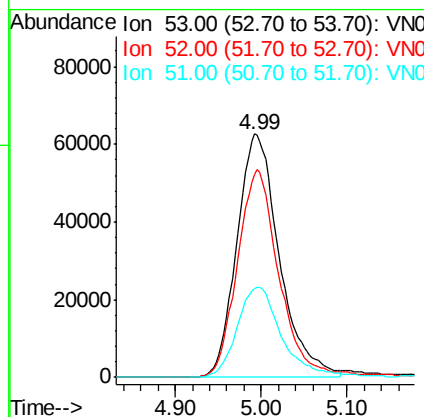
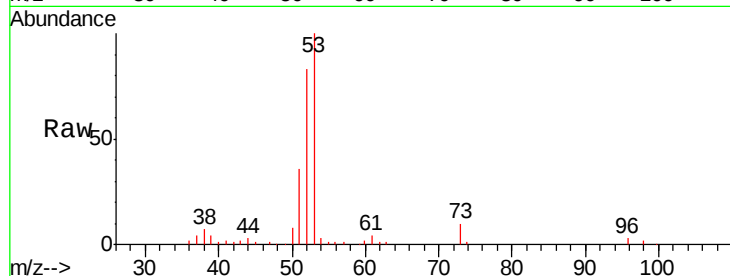
ClientSampleId :

VSTDIC020

Tgt Ion:	53	Resp:	215044
Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.9	98.9
51	38.9	28.6	43.0

Manual Integrations
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#16

Acetone

Concen: 66.20 ug/l

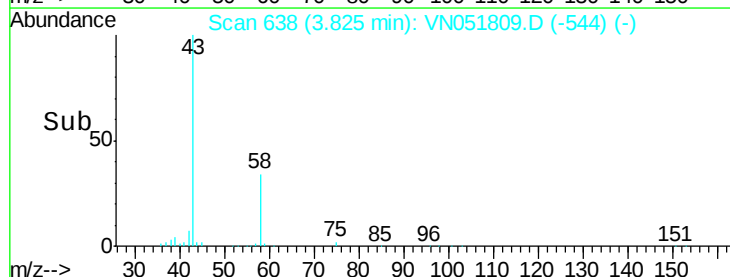
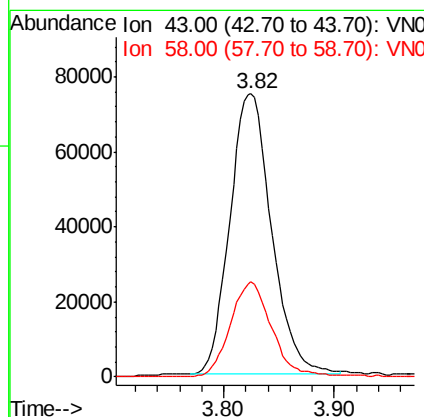
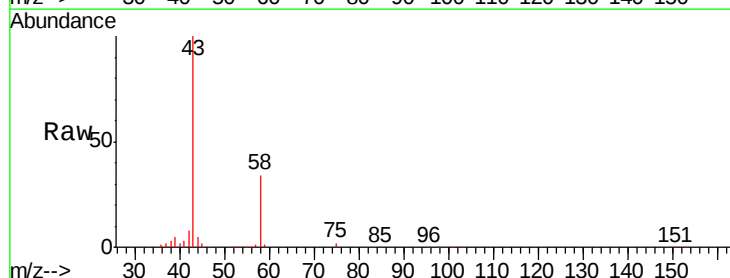
RT: 3.82 min Scan# 638

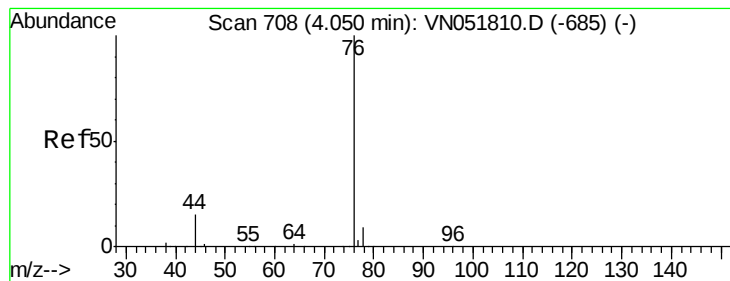
Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Tgt Ion:	43	Resp:	196357
Ion	Ratio	Lower	Upper
43	100		
58	33.6	27.2	40.8





#17

Carbon Disulfide

Concen: 9.88 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 339151

Ion Ratio Lower Upper

76 100

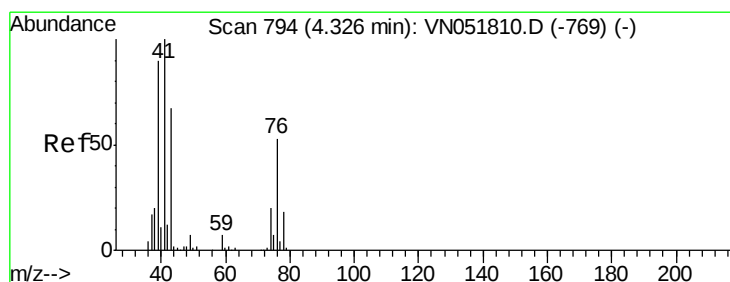
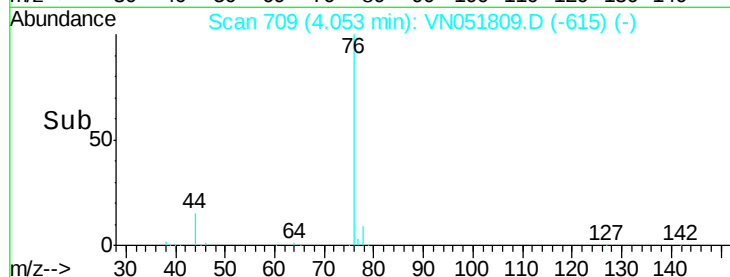
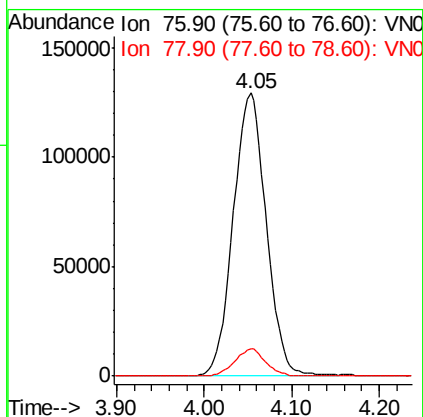
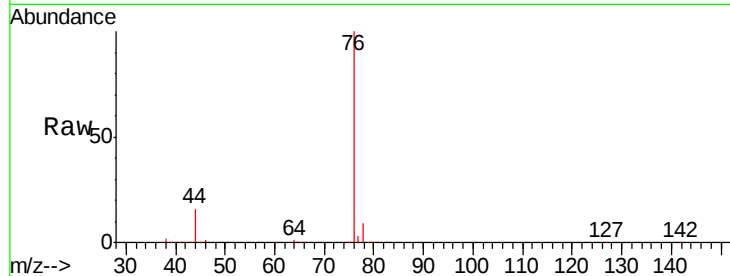
78 9.5 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:18 PM



#18

Methyl Acetate

Concen: 9.81 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051809.D

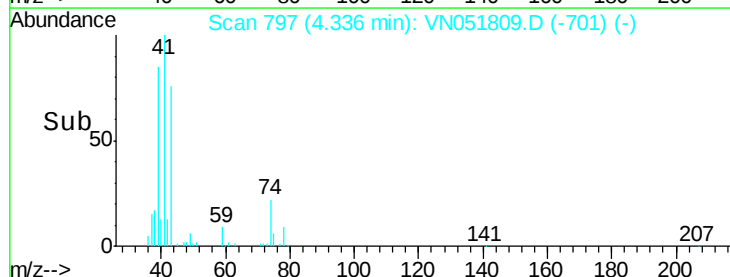
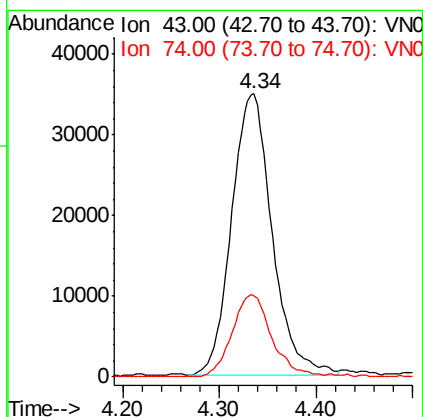
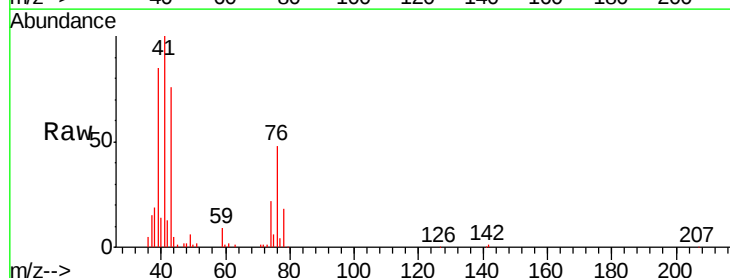
Acq: 11 Oct 2018 11:22

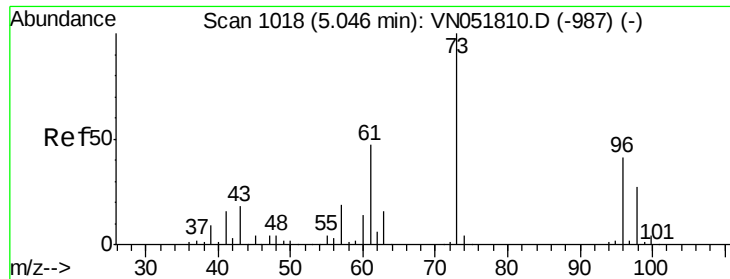
Tgt Ion: 43 Resp: 101641

Ion Ratio Lower Upper

43 100

74 28.5 19.8 29.8





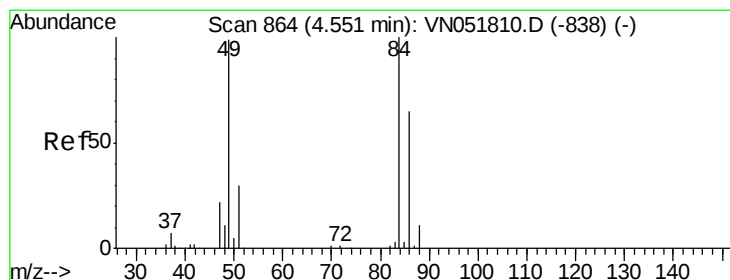
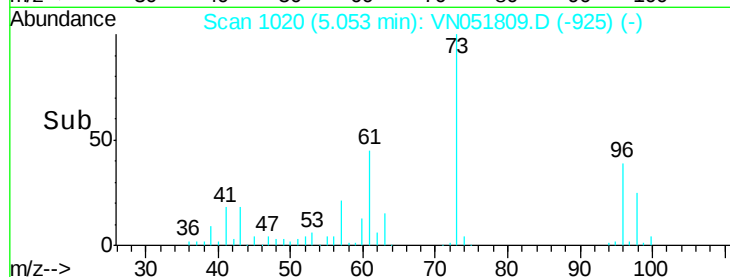
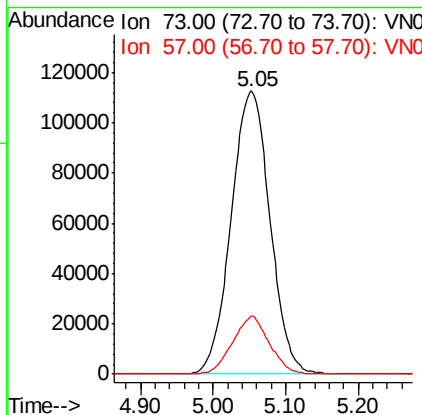
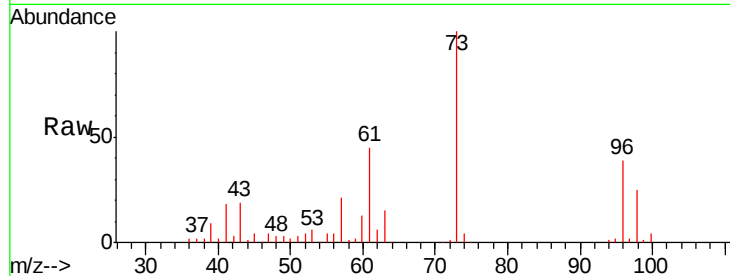
#19
Methyl tert-butyl Ether
Concen: 16.28 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 73 Resp: 419458
Ion Ratio Lower Upper
73 100
57 20.7 17.8 26.8

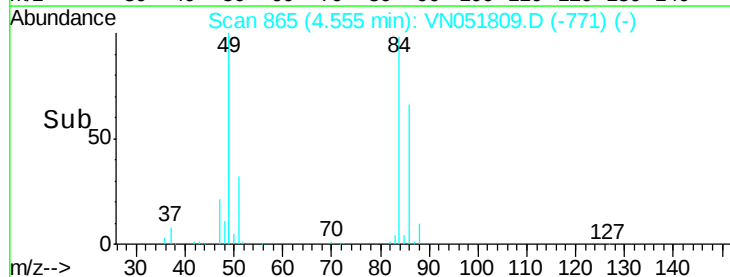
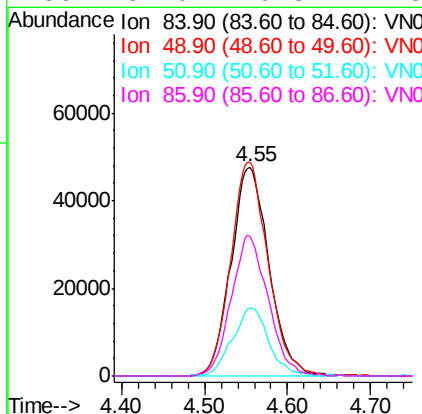
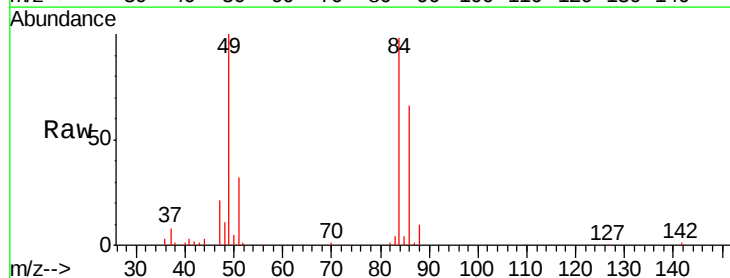
Manual Integrations
APPROVED

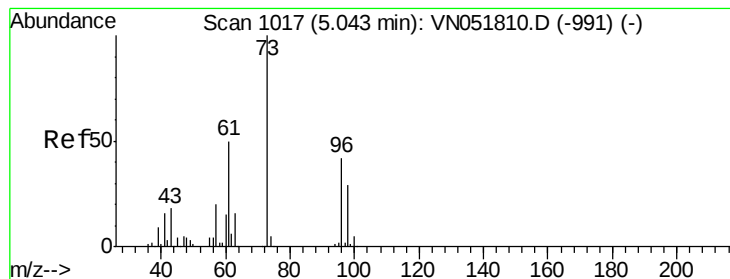
MMDadoda
10/15/2018 3:00:18 PM



#20
Methylene Chloride
Concen: 12.28 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion: 84 Resp: 151916
Ion Ratio Lower Upper
84 100
49 102.2 93.2 139.8
51 32.6 29.0 43.6
86 67.0 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 13.73 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

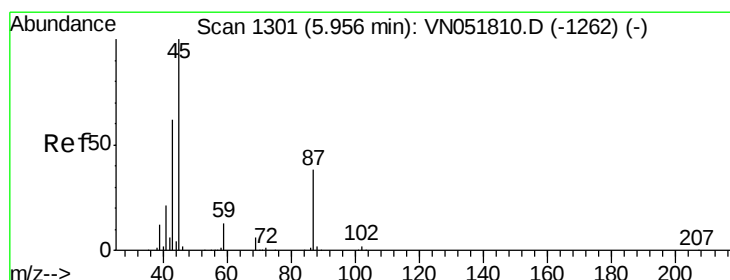
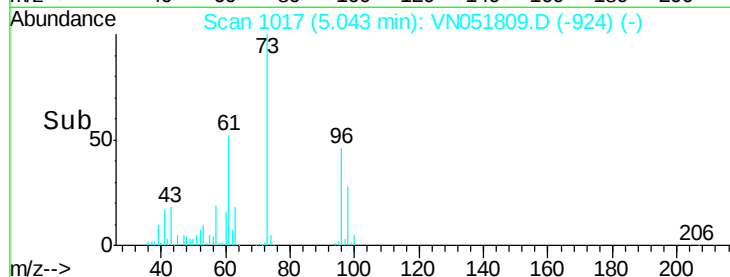
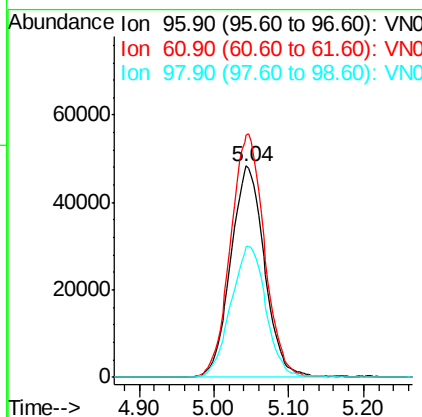
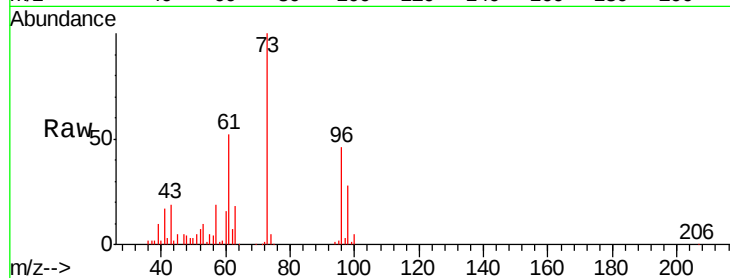
ClientSampleId :

VSTDIC020

Tgt Ion:	96	Resp:	152052
Ion Ratio	Lower	Upper	
96	100		
61	114.4	107.4	161.0
98	61.7	50.7	76.1

Manual Integrations
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MMDadoda
10/15/2018 3:00:18 PM



#22

Diisopropyl ether

Concen: 11.63 ug/l

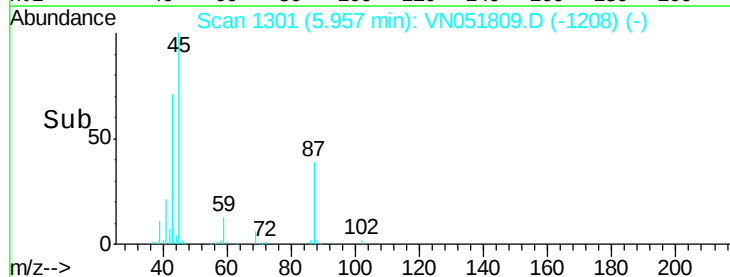
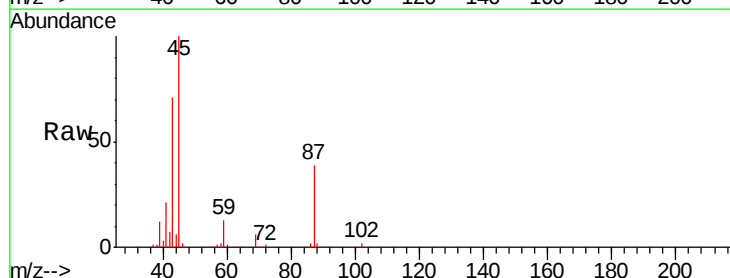
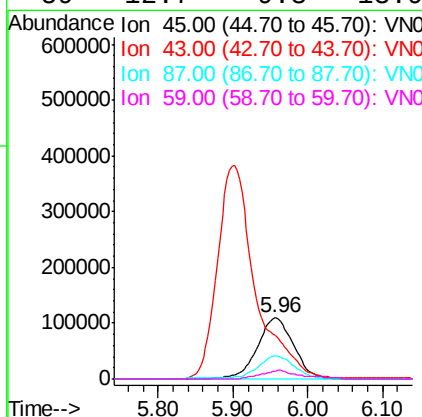
RT: 5.96 min Scan# 1301

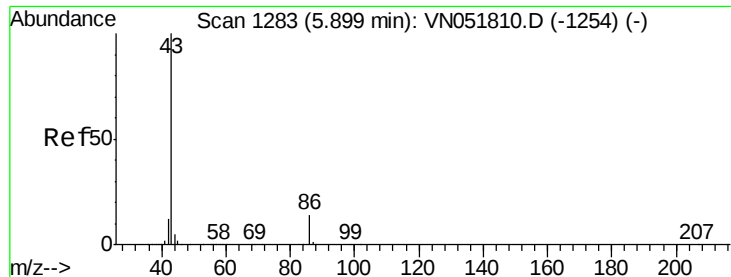
Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Tgt Ion:	45	Resp:	369982
Ion Ratio	Lower	Upper	
45	100		
43	69.2	45.9	68.9#
87	38.3	22.7	34.1#
59	12.7	9.3	13.9





#23

Vinyl Acetate

Concen: 66.28 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 1357333

Ion Ratio Lower Upper

43 100

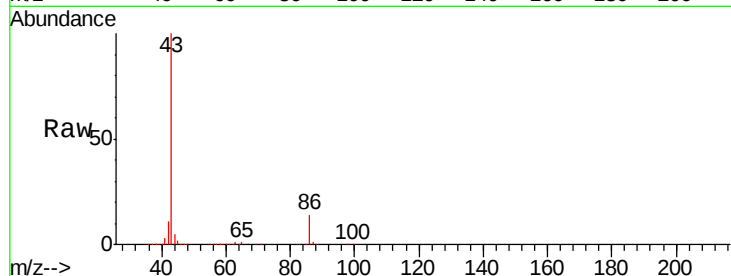
86 14.1 8.7 13.1#

Manual Integrations

APPROVED

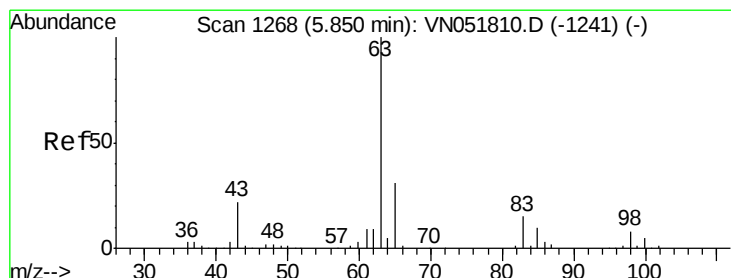
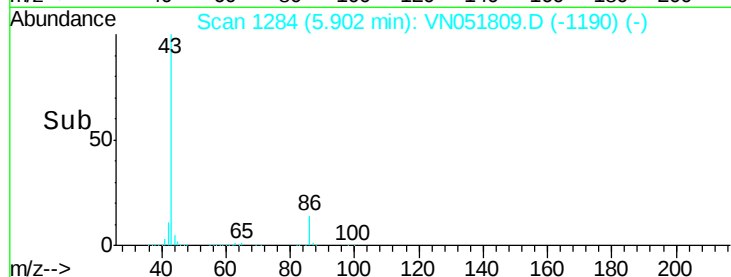
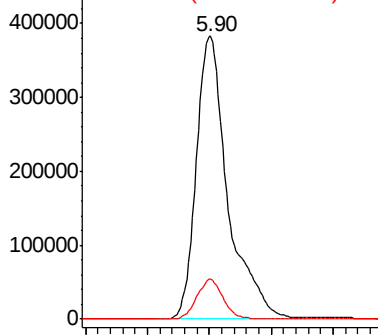
MMDadoda

10/15/2018 3:00:18 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 12.17 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

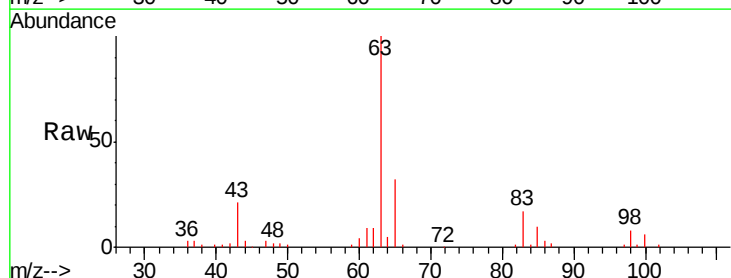
Tgt Ion: 63 Resp: 248557

Ion Ratio Lower Upper

63 100

98 8.0 3.3 9.8

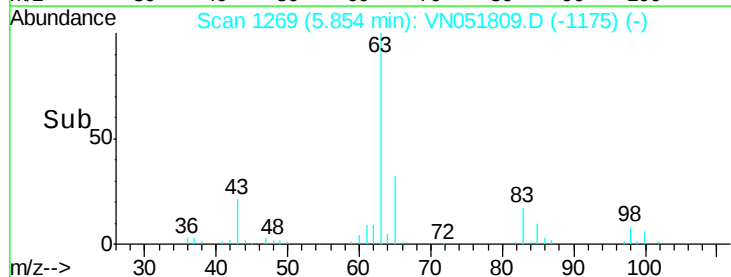
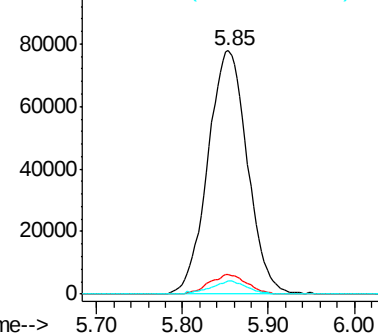
100 5.5 2.1 6.5

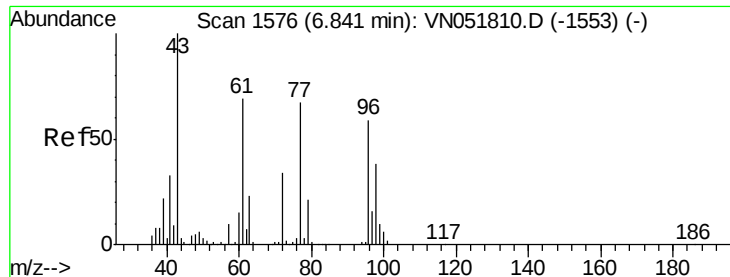


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 62.70 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 277341

Ion Ratio Lower Upper

43 100

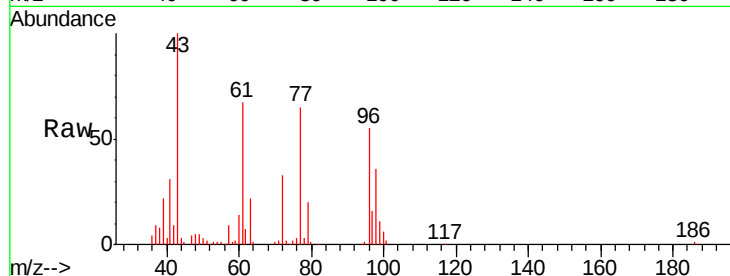
72 33.2 22.3 33.5

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:18 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.84

100000

80000

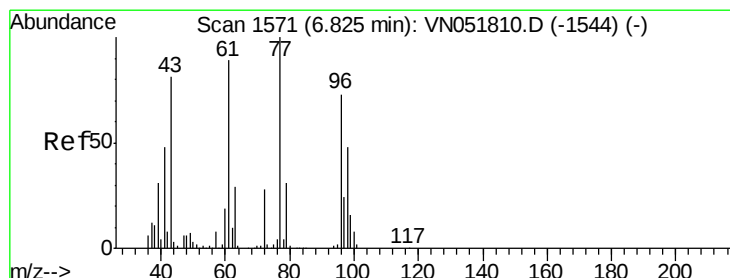
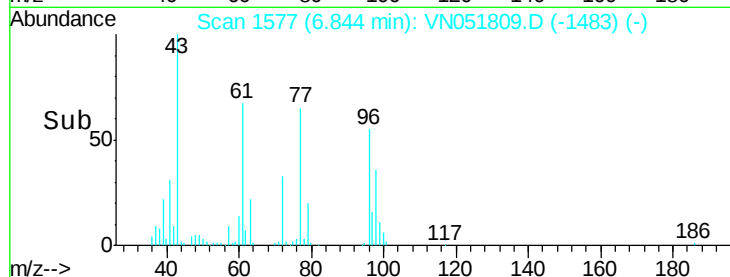
60000

40000

20000

0

Time--> 6.70 6.75 6.80 6.85 6.90



#26

2,2-Dichloropropane

Concen: 15.32 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051809.D

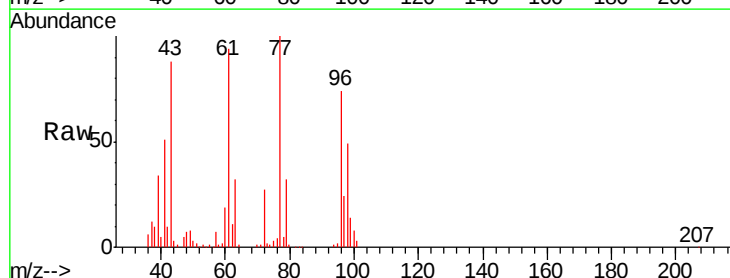
Acq: 11 Oct 2018 11:22

Tgt Ion: 77 Resp: 251360

Ion Ratio Lower Upper

77 100

97 23.0 12.0 36.0



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.83

80000

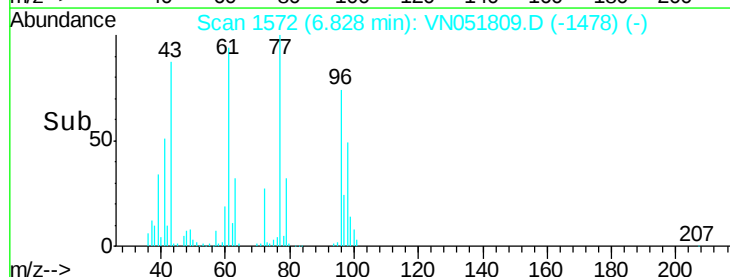
60000

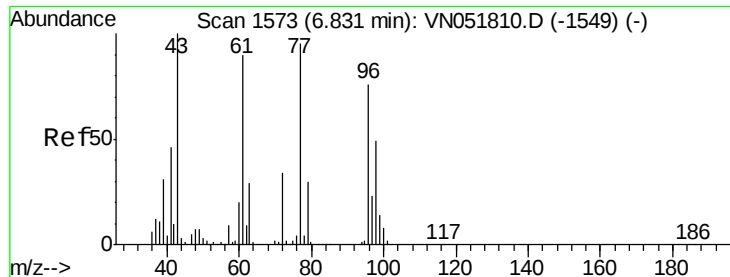
40000

20000

0

Time--> 6.70 6.80 6.90





#27

cis-1,2-Dichloroethene

Concen: 14.79 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

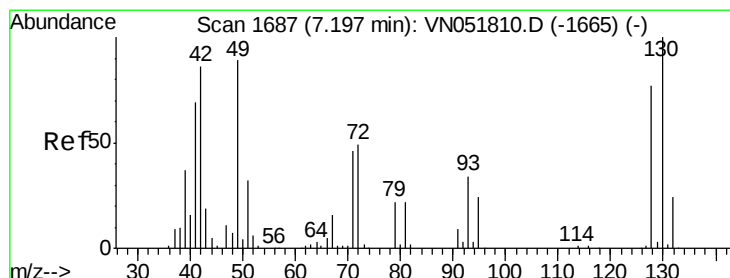
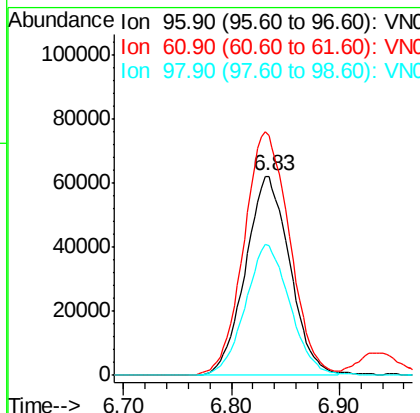
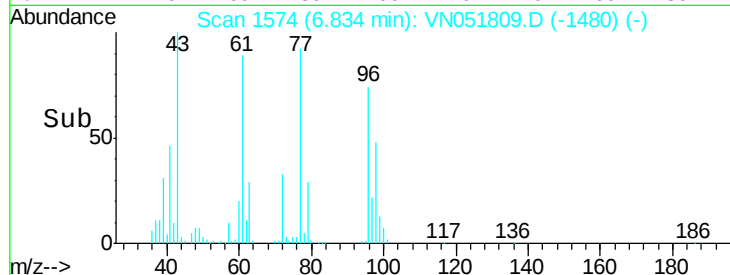
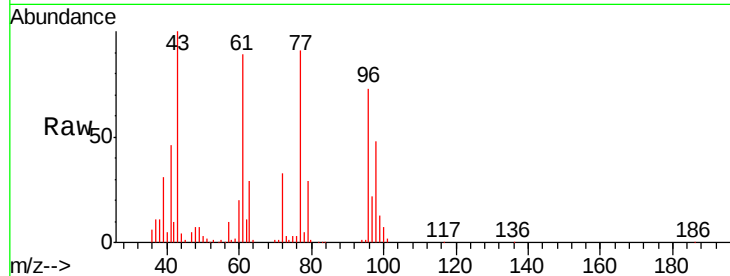
ClientSampleId :

VSTDIC020

Tgt Ion:	96	Resp:	176561
Ion	Ratio	Lower	Upper
96	100		
61	126.7	0.0	283.4
98	66.1	0.0	129.8

Manual Integrations
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MMDadoda
10/15/2018 3:00:18 PM



#28

Bromochloromethane

Concen: 13.00 ug/l

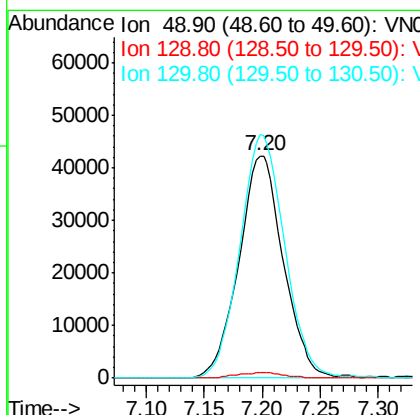
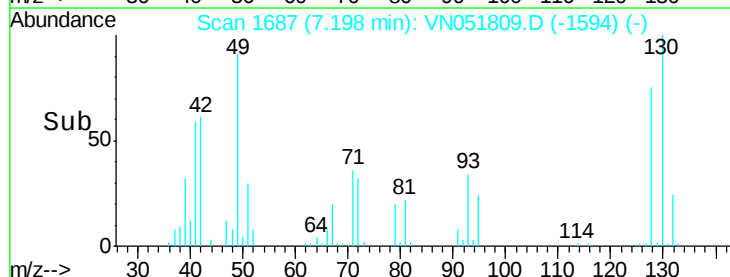
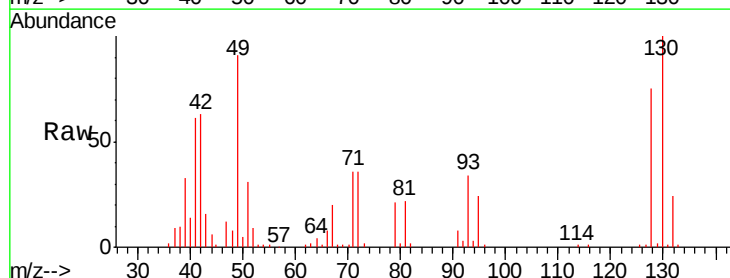
RT: 7.20 min Scan# 1687

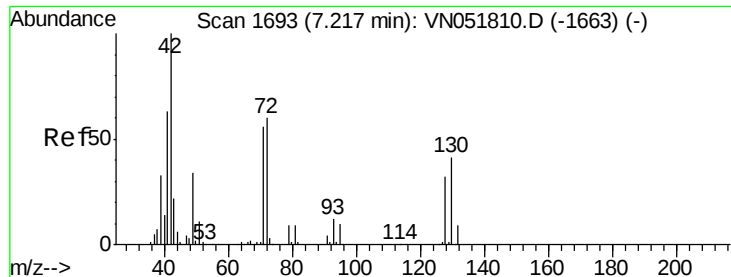
Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Tgt Ion:	49	Resp:	112808
Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	4.2
130	110.1	67.1	100.7#





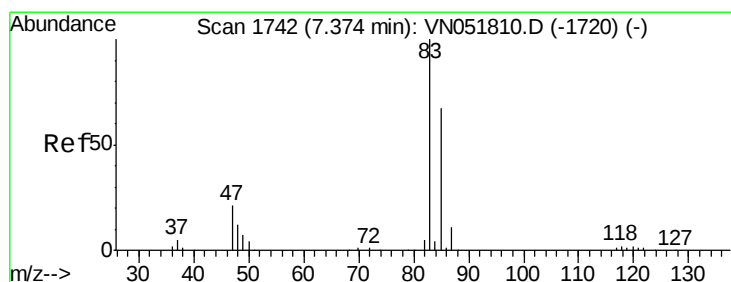
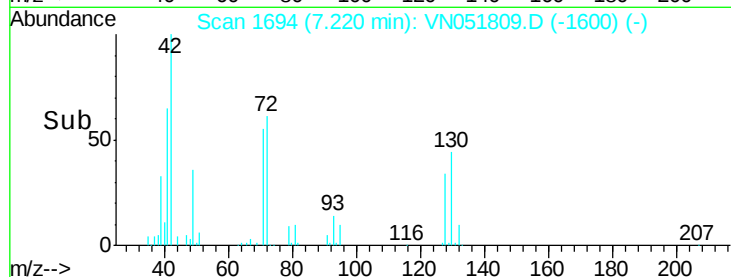
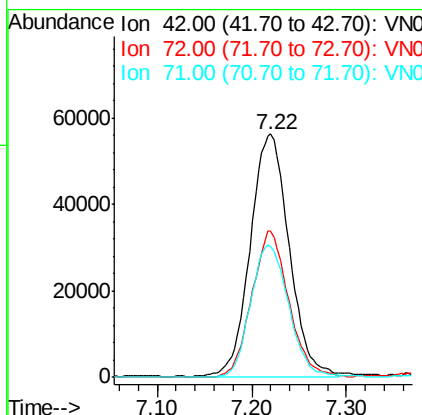
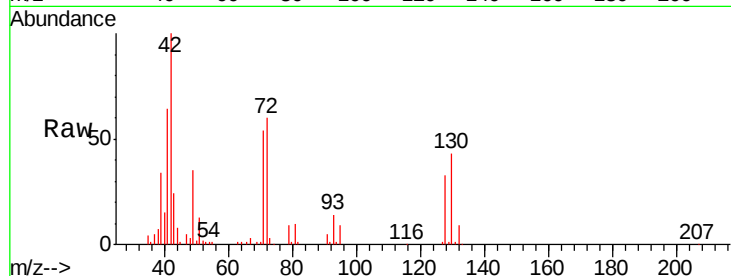
#29
Tetrahydrofuran
Concen: 63.70 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
42	100		
72	57.1	35.5	53.3#
71	53.4	33.7	50.5#

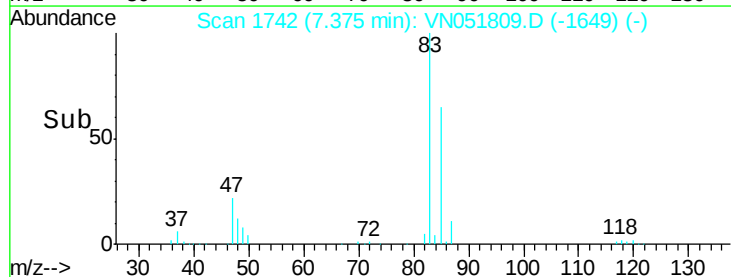
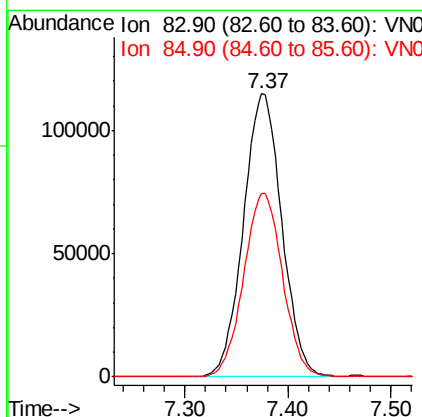
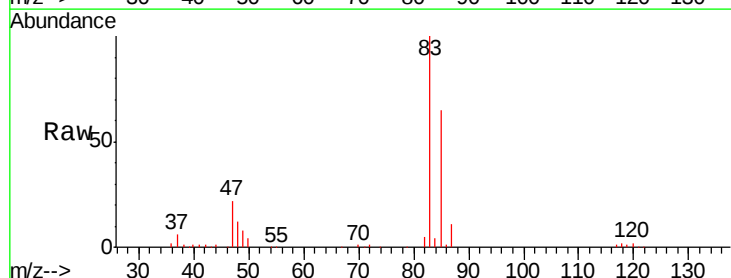
Manual Integrations
APPROVED

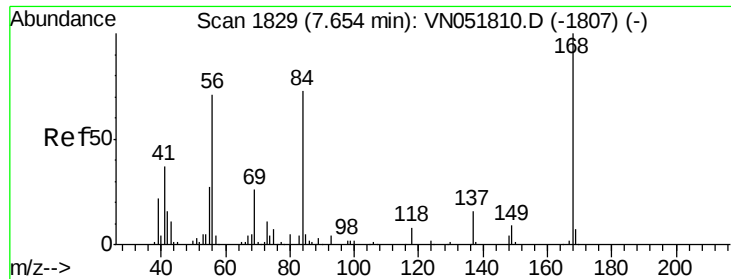
MMDadoda
10/15/2018 3:00:18 PM



#30
Chloroform
Concen: 14.71 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.2	78.4





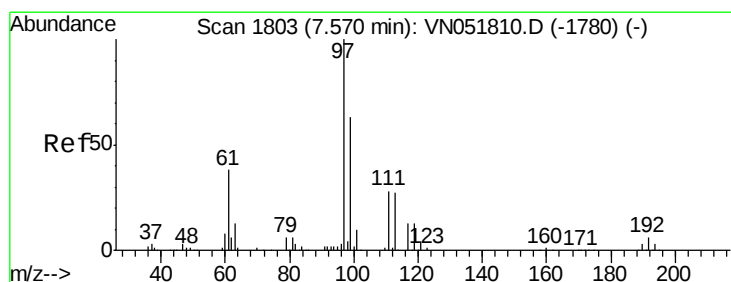
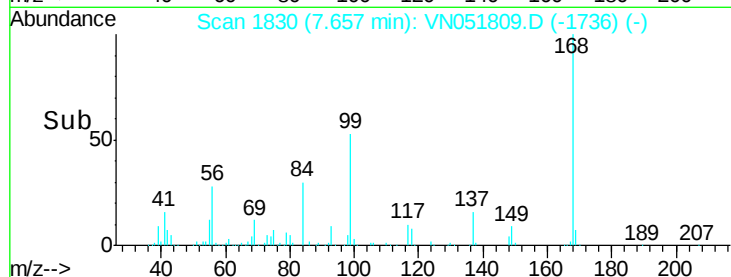
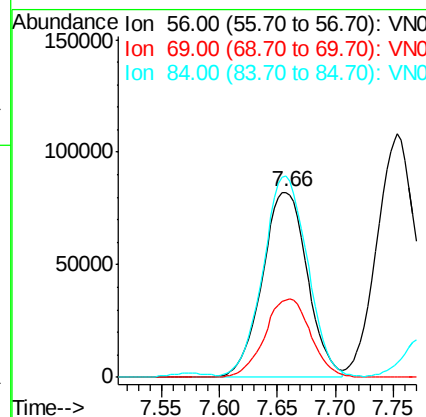
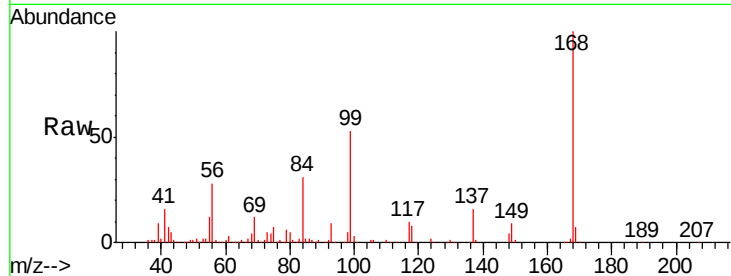
#31
Cyclohexane
Concen: 10.97 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
56	100		
69	41.9	26.2	39.4#
84	106.7	68.3	102.5#

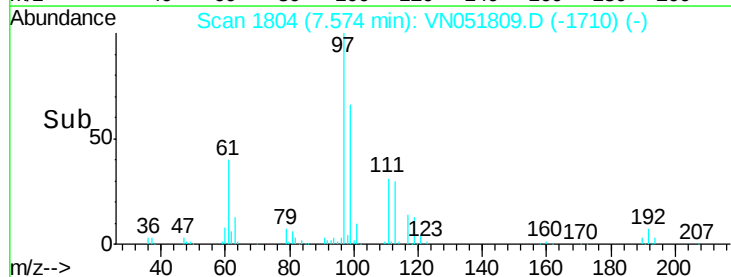
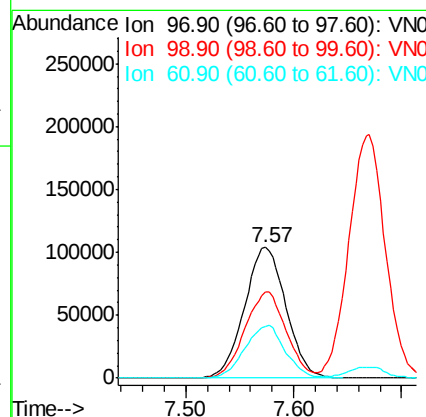
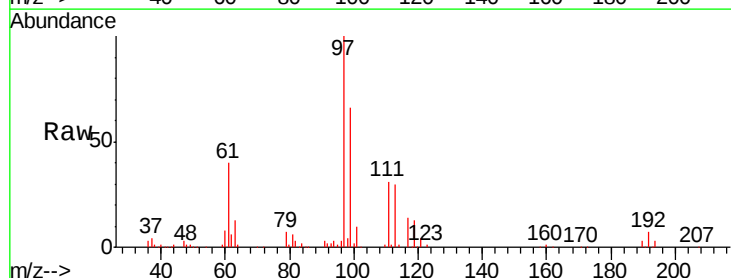
Manual Integrations
APPROVED

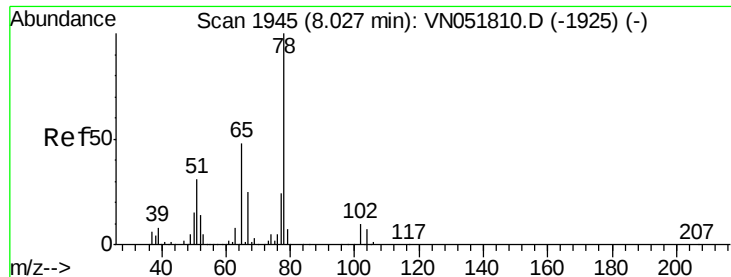
MMDadoda
10/15/2018 3:00:18 PM



#32
1,1,1-Trichloroethane
Concen: 15.98 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.8	77.6
61	39.2	34.9	52.3





#33

1,2-Dichloroethane-d4

Concen: 15.98 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 174236

Ion Ratio Lower Upper

65 100

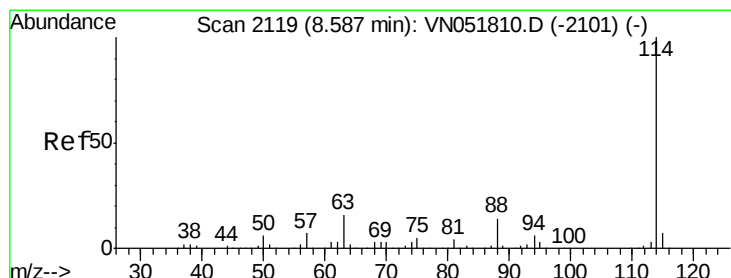
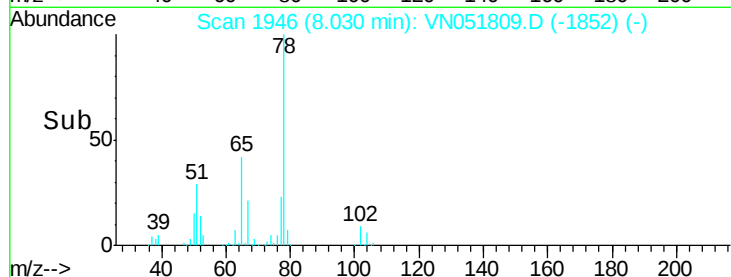
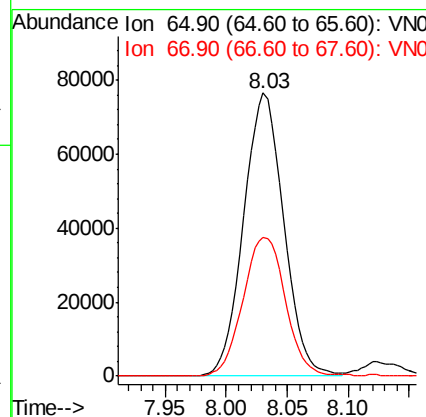
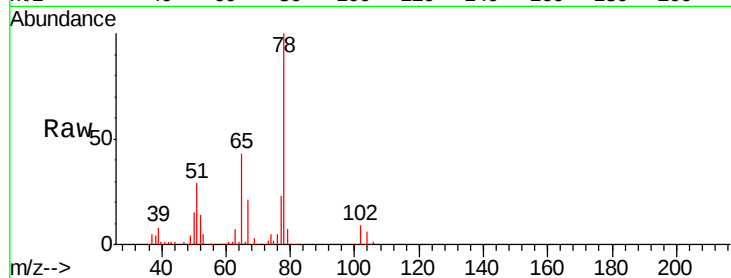
67 52.0 0.0 110.4

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:18 PM



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

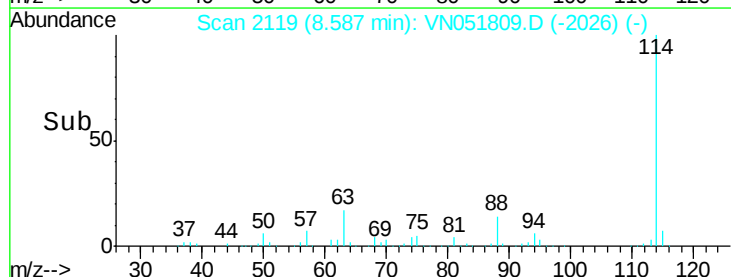
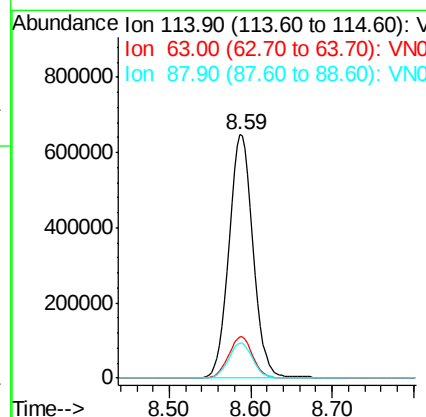
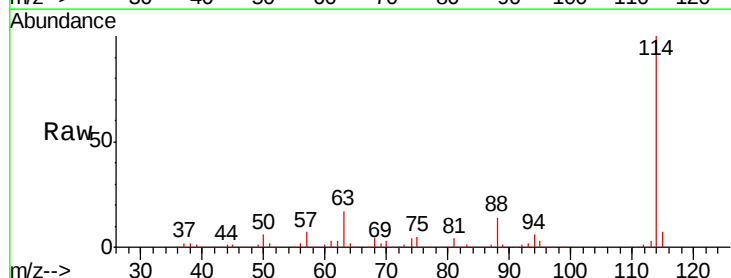
Tgt Ion: 114 Resp: 1354945

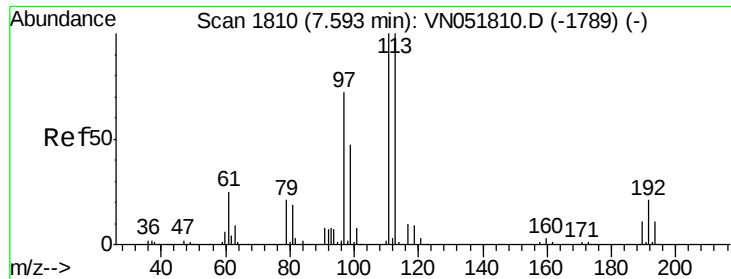
Ion Ratio Lower Upper

114 100

63 16.9 0.0 38.6

88 14.4 0.0 30.6





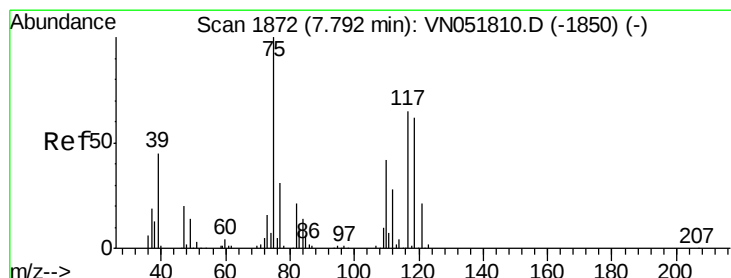
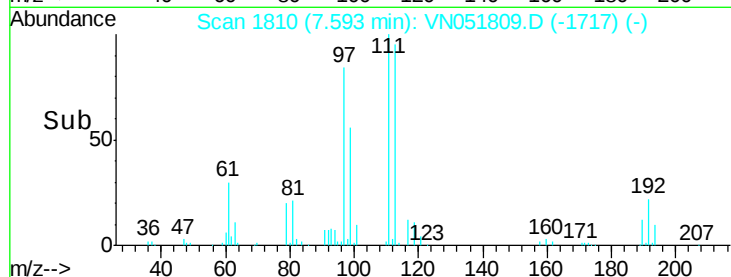
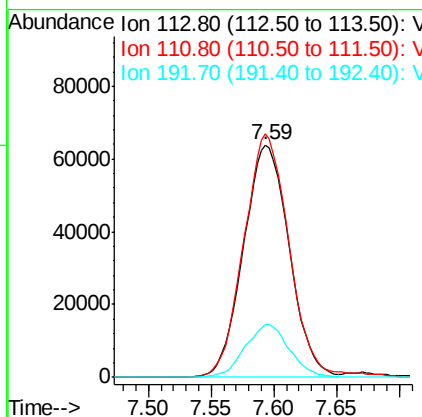
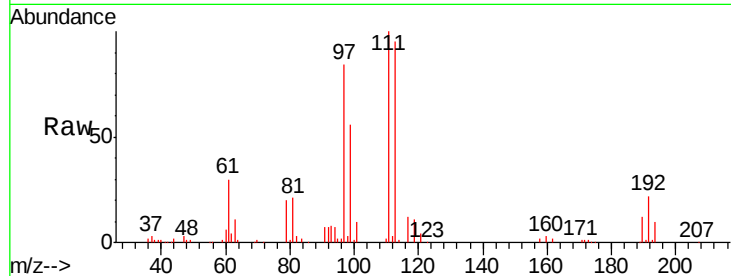
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.6	123.8
192	21.9	18.0	27.0

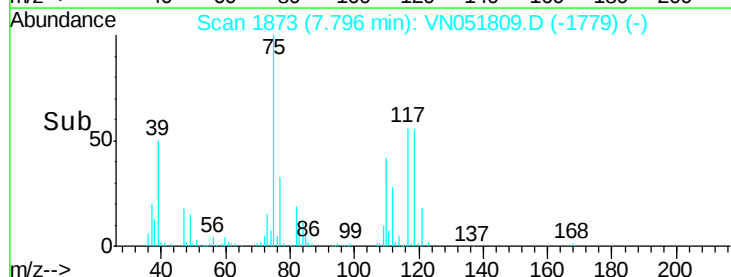
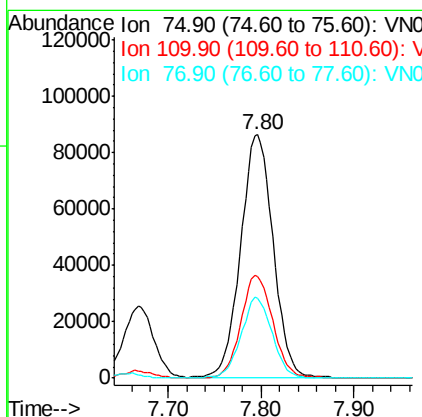
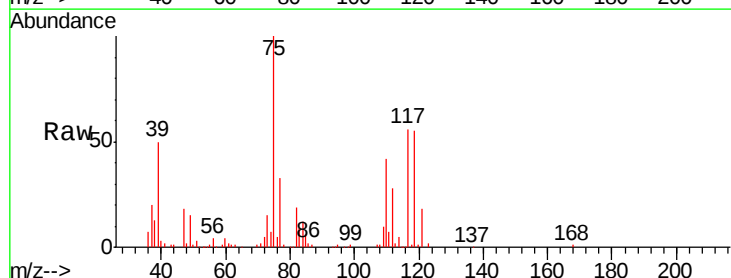
Manual Integrations
APPROVED

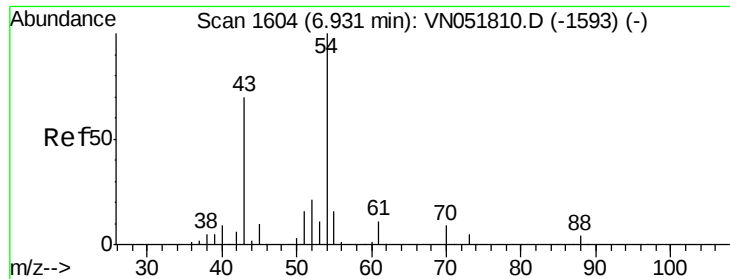
MMDadoda
10/15/2018 3:00:18 PM



#36
1,1-Dichloropropene
Concen: 13.10 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	41.5	18.1	54.4
77	31.9	24.8	37.2





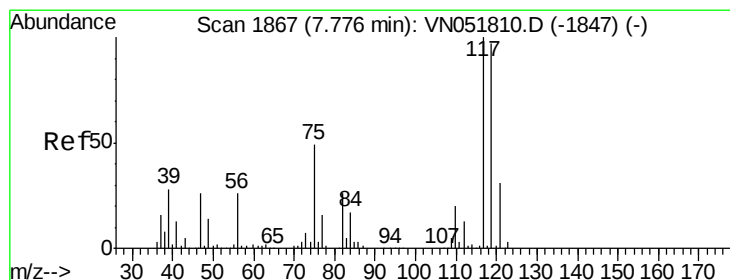
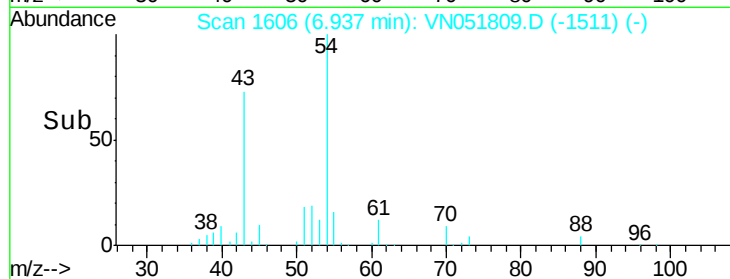
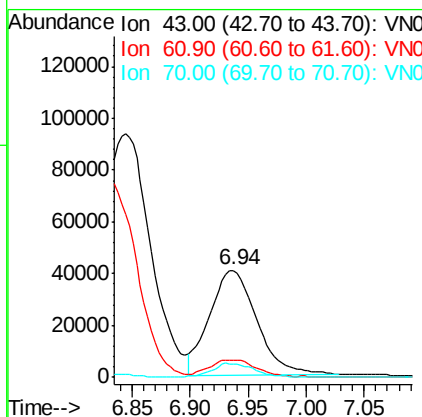
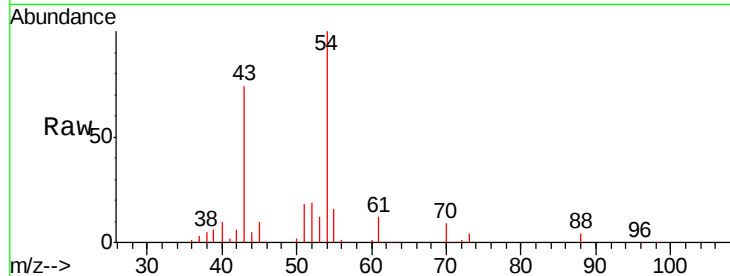
#37
Ethyl Acetate
Concen: 12.56 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.01 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.7	12.0	18.0
70	12.2	8.6	13.0

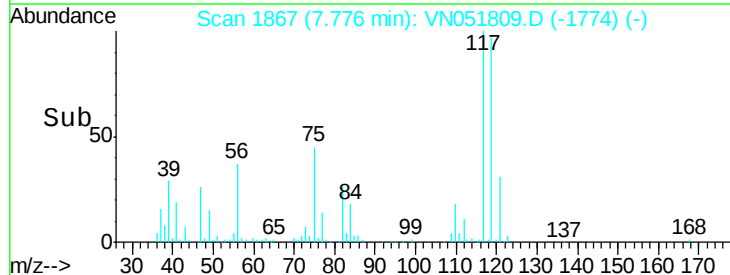
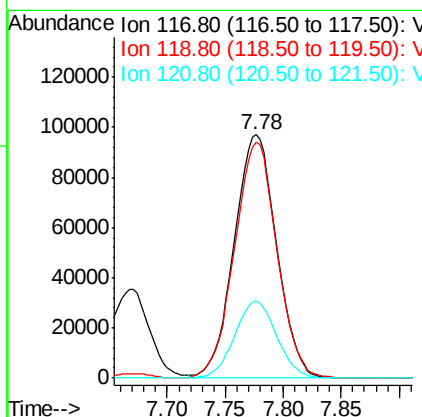
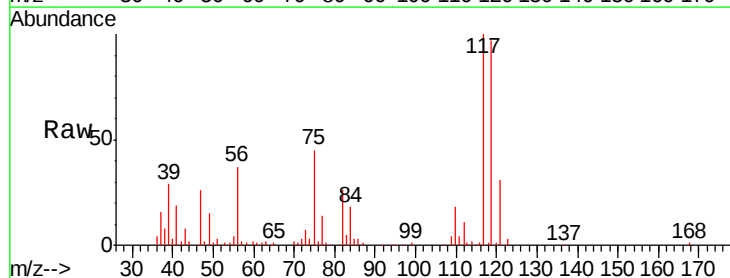
Manual Integrations
APPROVED

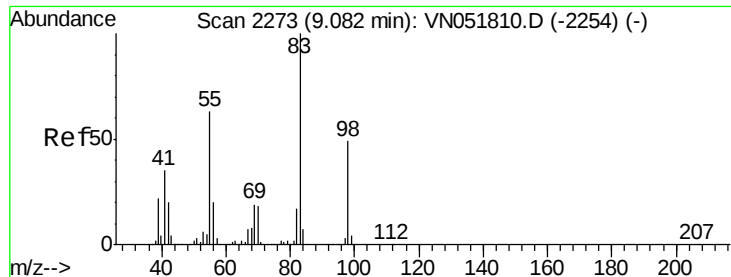
MMDadoda
10/15/2018 3:00:18 PM



#38
Carbon Tetrachloride
Concen: 15.21 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.3	114.5
121	31.5	24.6	36.8





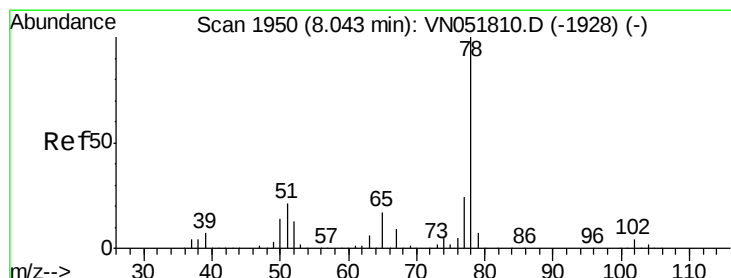
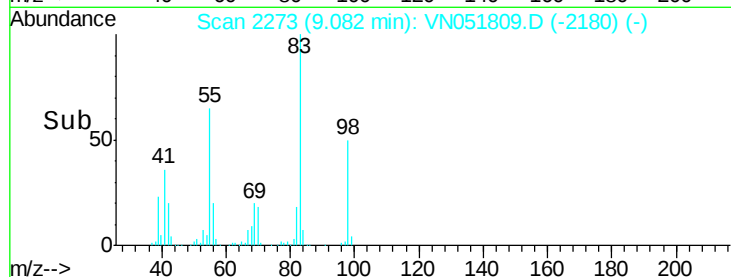
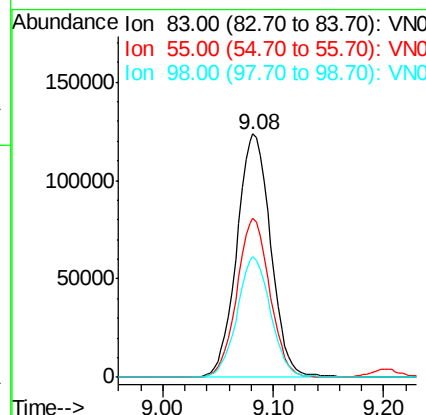
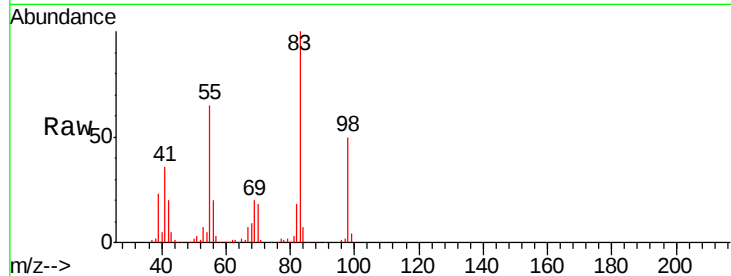
#39
Methylcyclohexane
Concen: 15.22 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	263231		
55	65.3	61.0	91.4	
98	49.7	37.5	56.3	

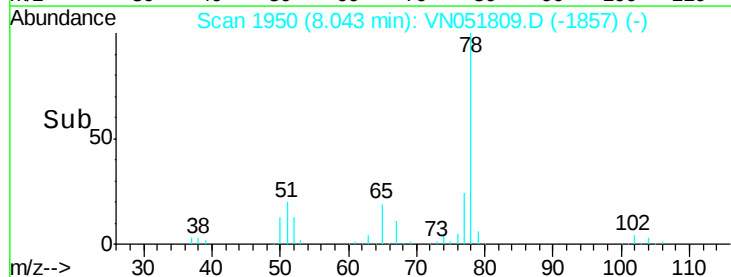
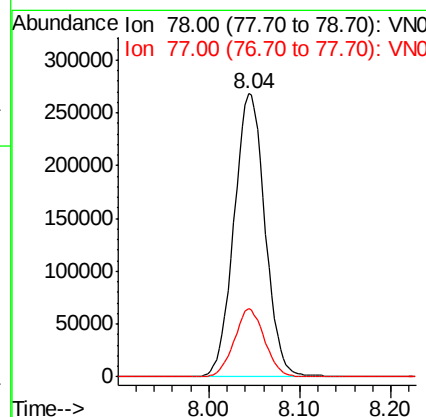
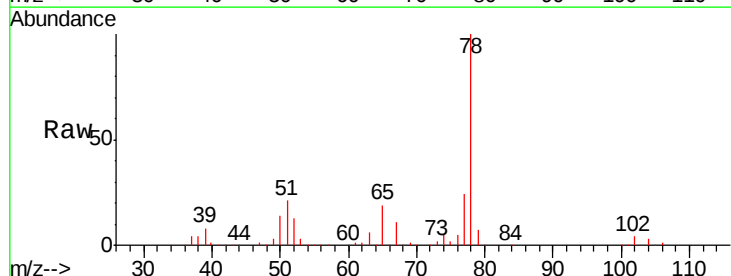
Manual Integrations
APPROVED

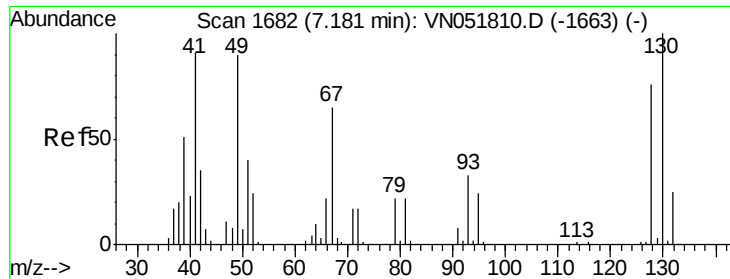
MMDadoda
10/15/2018 3:00:18 PM



#40
Benzene
Concen: 13.17 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	634829		
77	24.0	19.0	28.4	





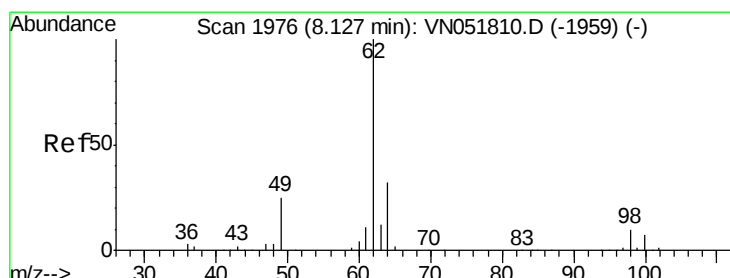
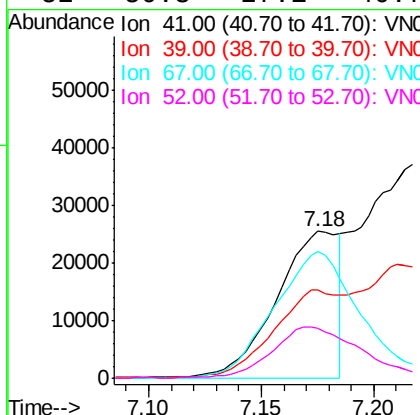
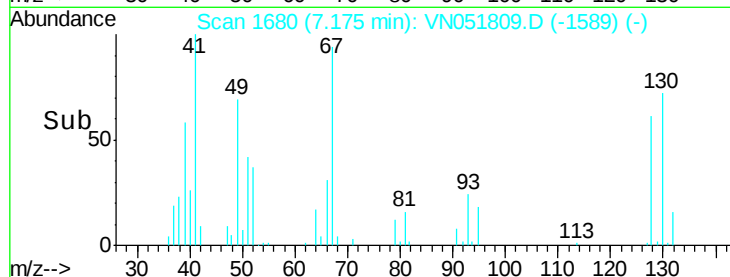
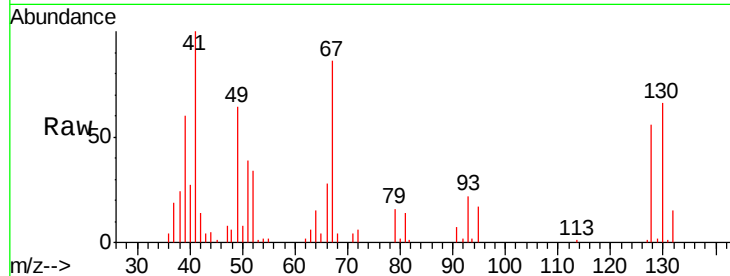
#41
Methacrylonitrile
Concen: 9.99 ug/l m
RT: 7.18 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 41 Resp: 49644
Ion Ratio Lower Upper
41 100
39 56.1 45.4 68.0
67 119.8 70.6 106.0#
52 50.3 27.1 40.7#

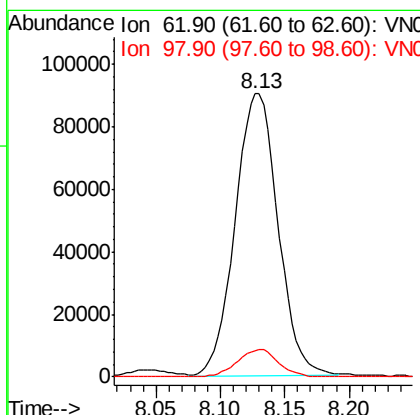
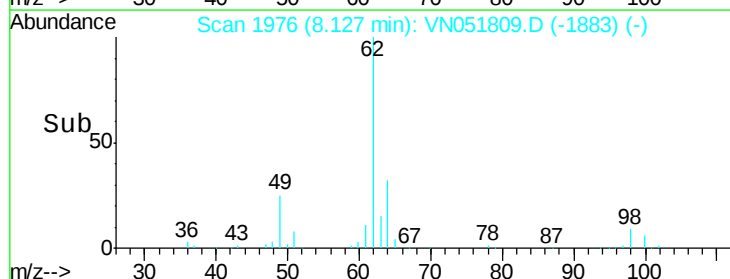
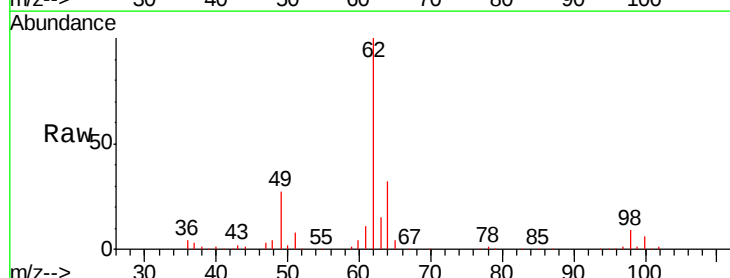
Manual Integrations
APPROVED

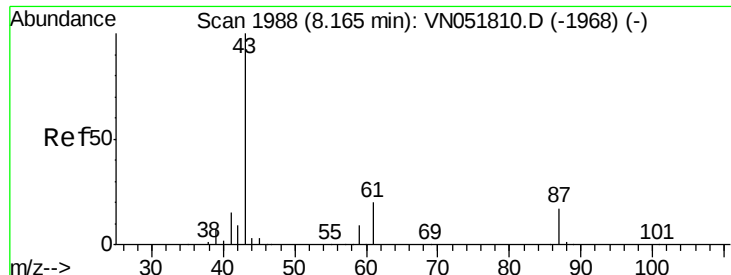
MMDadoda
10/15/2018 3:00:18 PM



#42
1,2-Dichloroethane
Concen: 14.46 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion: 62 Resp: 208459
Ion Ratio Lower Upper
62 100
98 9.4 0.0 19.6





#43

Isopropyl Acetate

Concen: 14.41 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

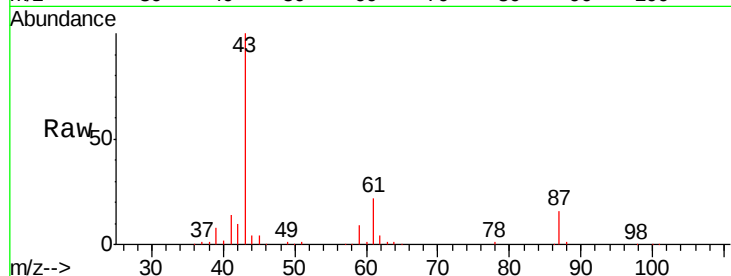
ClientSampleId :

VSTDIC020

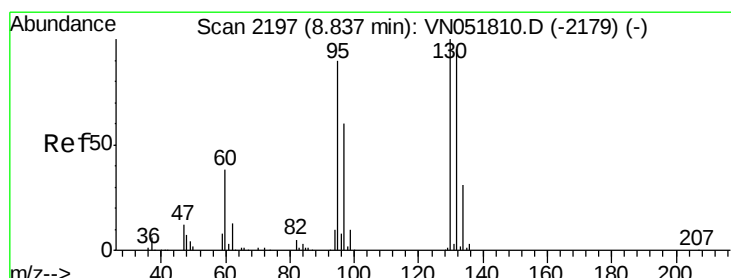
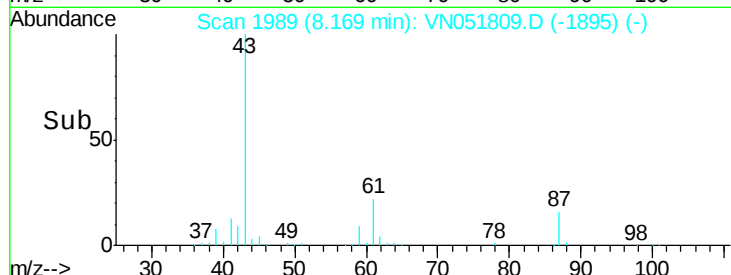
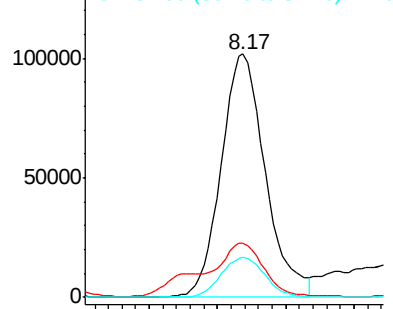
Tgt Ion:	43	Resp:	227569
Ion	Ratio	Lower	Upper
43	100		
61	19.9	17.5	26.3
87	16.5	11.3	16.9

Manual Integrations
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MMDadoda
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Abundance Ion 43.00 (42.70 to 43.70): VN051810.D (-1968) (-)



#44

Trichloroethene

Concen: 15.04 ug/l

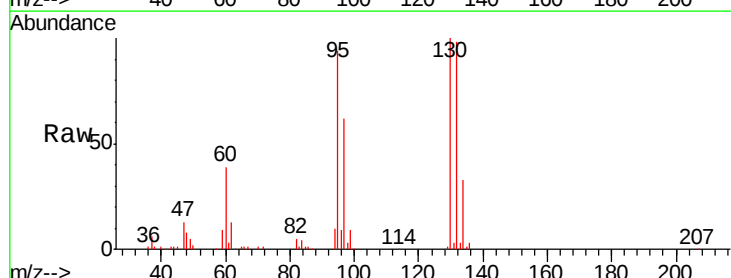
RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

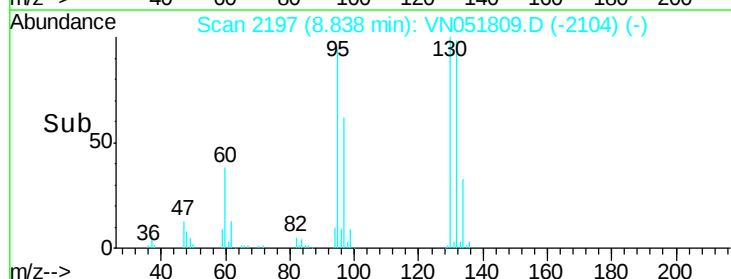
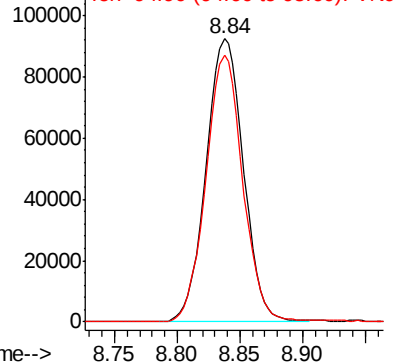
Lab File: VN051809.D

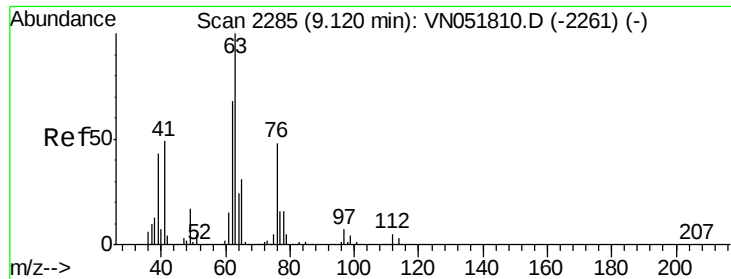
Acq: 11 Oct 2018 11:22

Tgt Ion:	130	Resp:	191280
Ion	Ratio	Lower	Upper
130	100		
95	94.2	0.0	193.0



Abundance Ion 129.80 (129.50 to 130.50): VN051810.D (-2179) (-)





#45

1,2-Dichloropropane

Concen: 11.76 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 148958

Ion Ratio Lower Upper

63 100

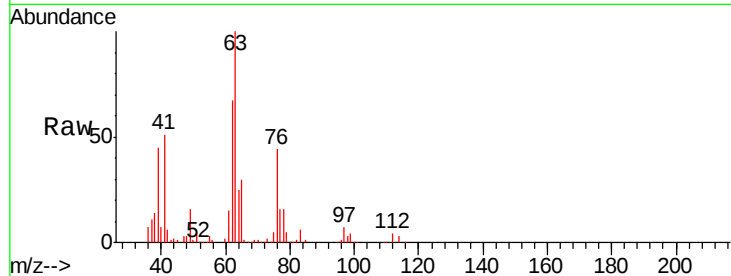
65 30.0 25.0 37.6

Manual Integrations

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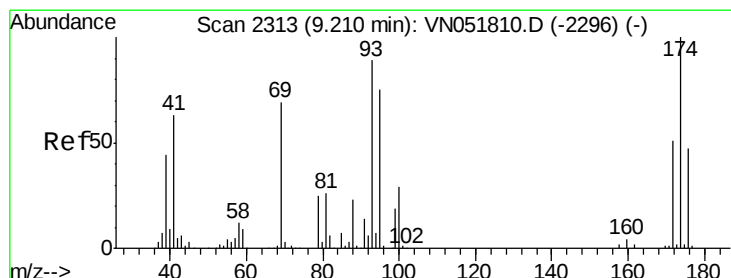
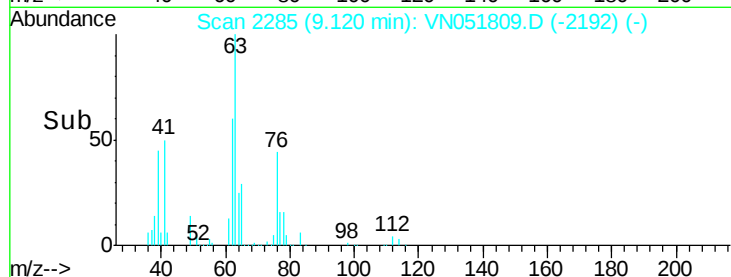
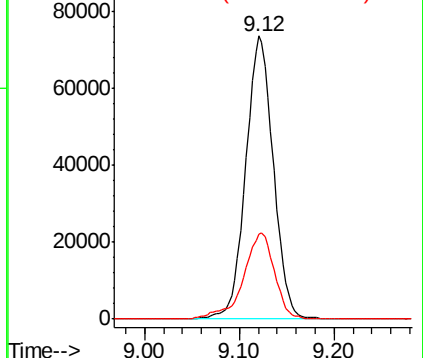
MMDadoda

10/15/2018 3:00:18 PM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 15.10 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

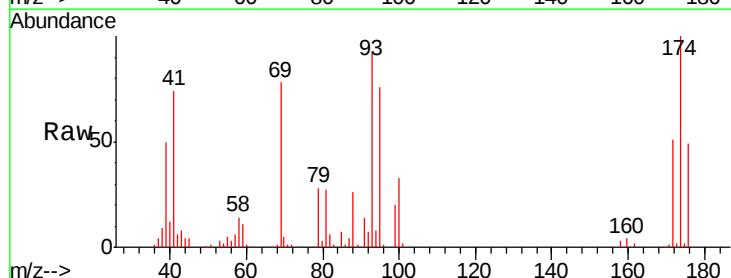
Tgt Ion: 93 Resp: 112450

Ion Ratio Lower Upper

93 100

95 83.9 66.7 100.1

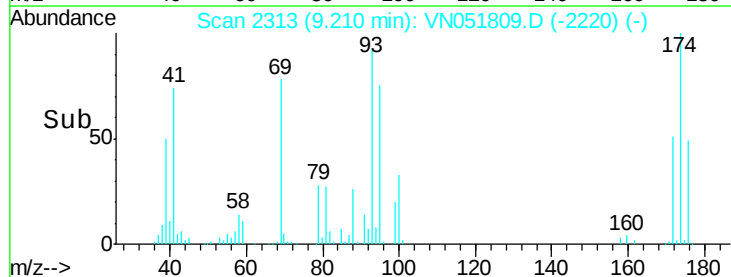
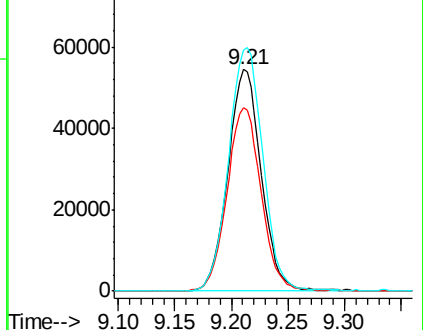
174 112.7 89.8 134.6

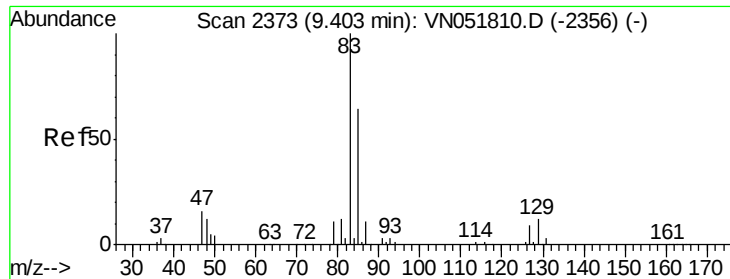


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 14.50 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

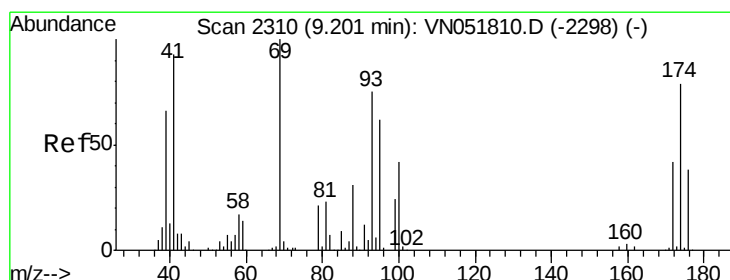
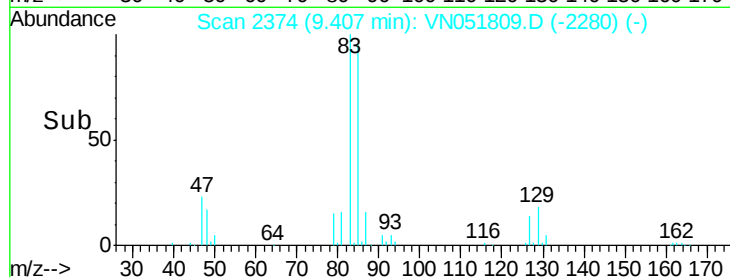
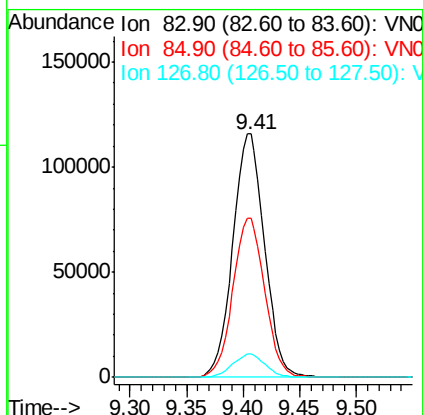
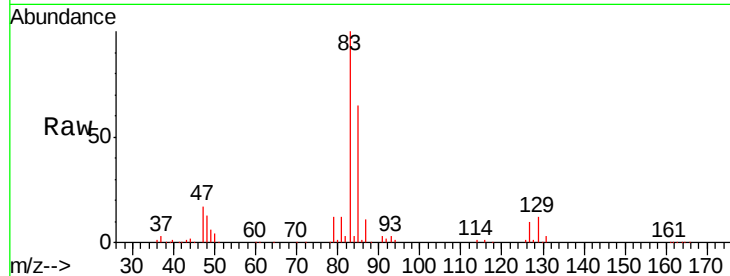
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	226161
Ion Ratio	Lower	Upper	
83	100		
85	65.2	52.6	78.8
127	9.9	7.2	10.8

Manual Integrations
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10/15/2018 3:00:18 PM



#48

Methyl methacrylate

Concen: 12.44 ug/l

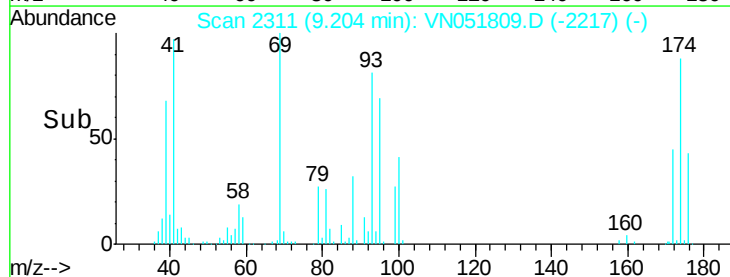
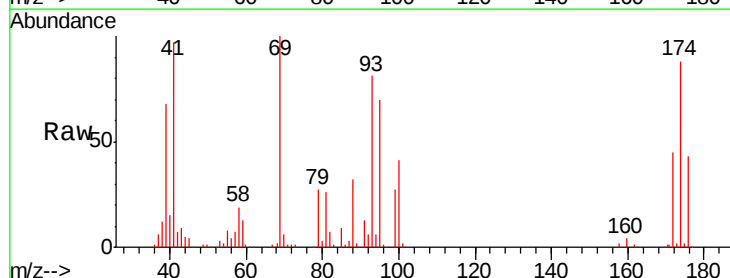
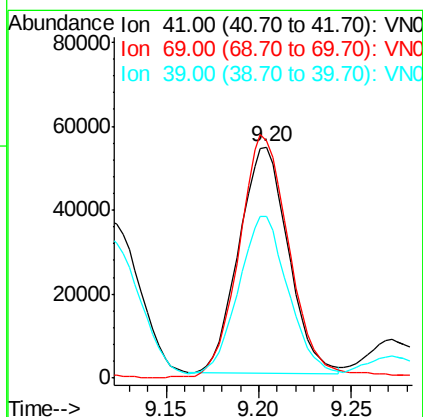
RT: 9.20 min Scan# 2311

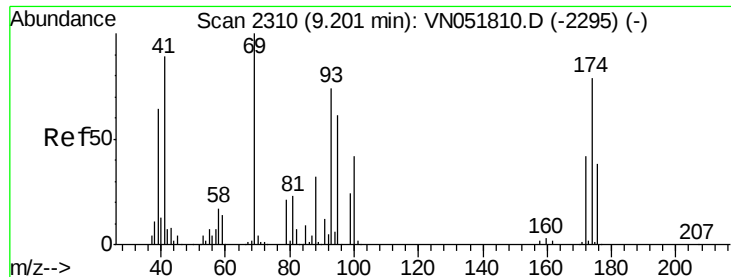
Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Tgt Ion:	41	Resp:	100141
Ion Ratio	Lower	Upper	
41	100		
69	110.3	74.7	112.1
39	73.2	42.2	63.2#





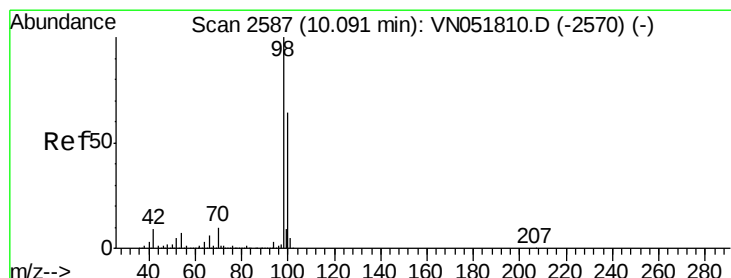
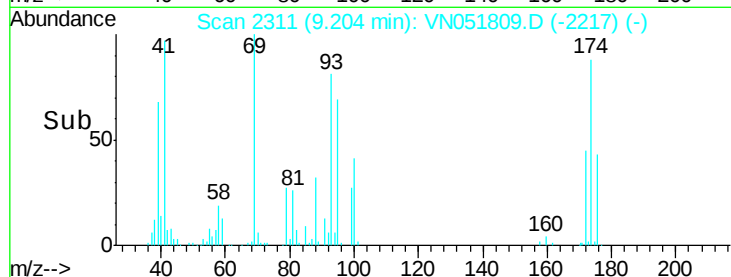
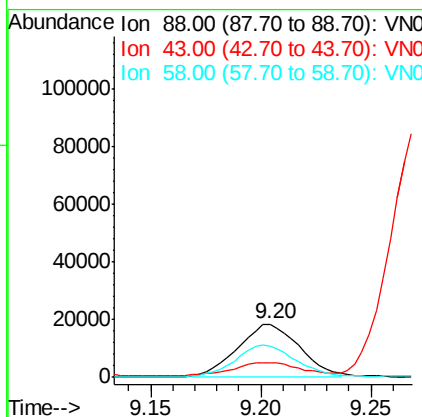
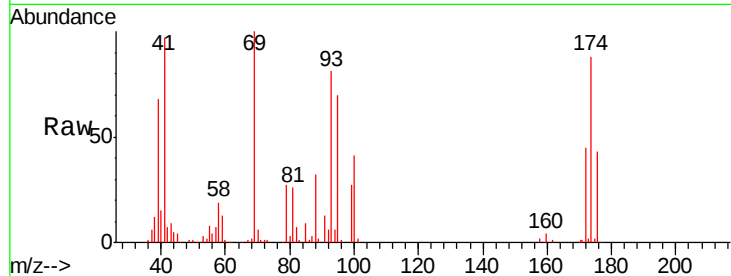
#49
1,4-Dioxane
Concen: 322.22 ug/l m
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
88	100		
43	27.1	25.9	38.9
58	62.0	55.0	82.4

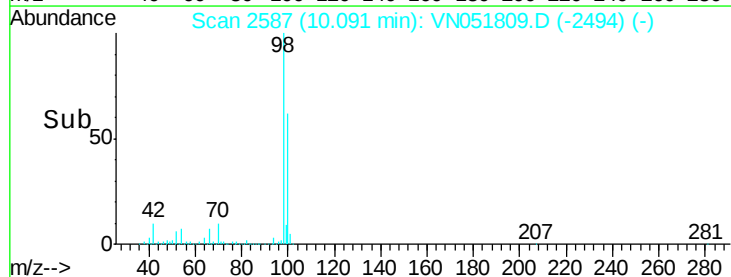
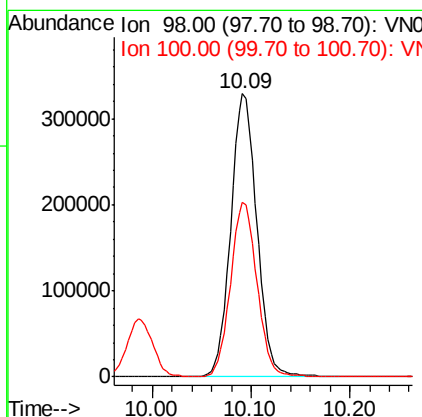
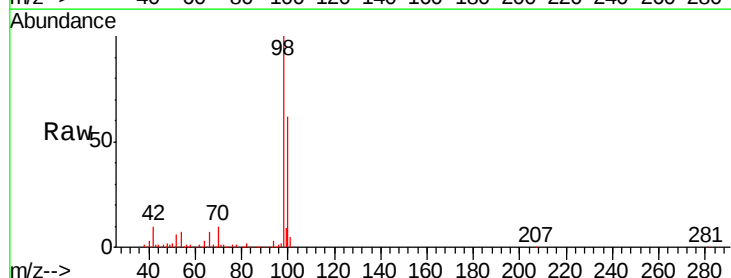
Manual Integrations
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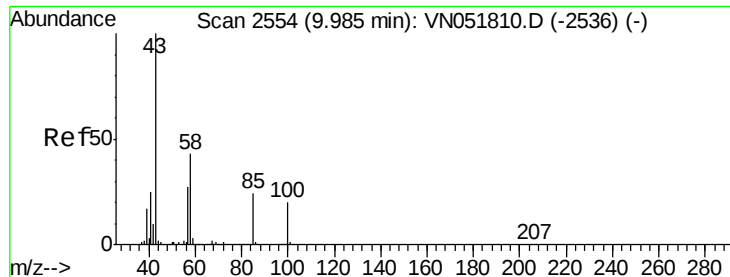
MMDadoda
10/15/2018 3:00:18 PM



#50
Toluene-d8
Concen: 322.22 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.3	51.5	77.3





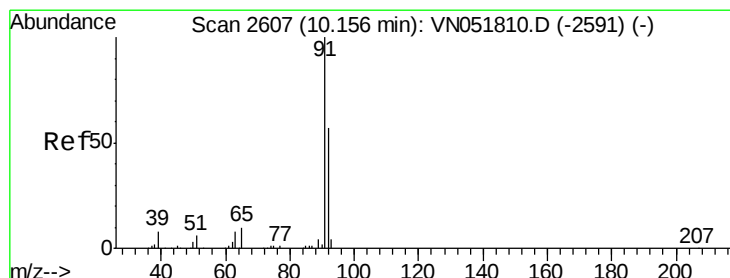
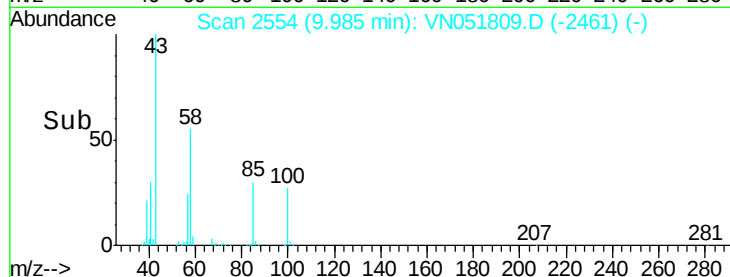
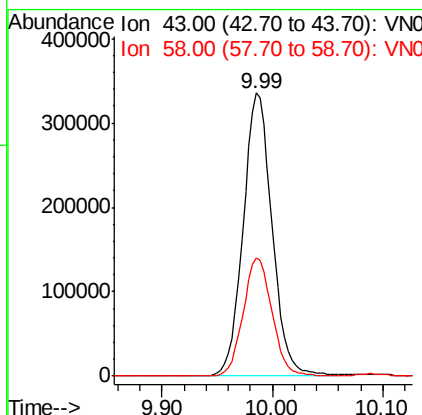
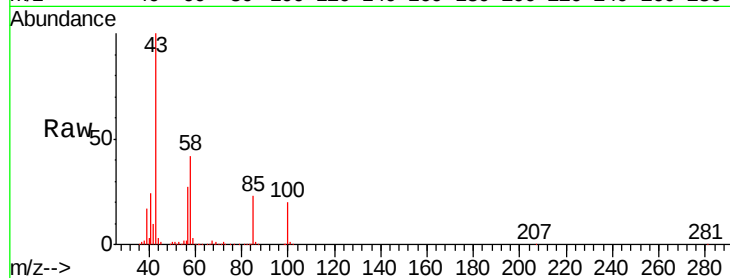
#51
4-Methyl-2-Pentanone
Concen: 64.44 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.8	32.4	48.6

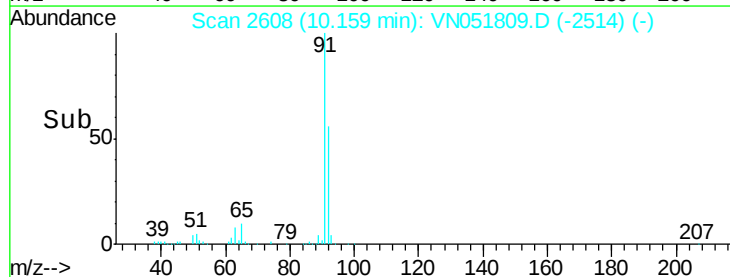
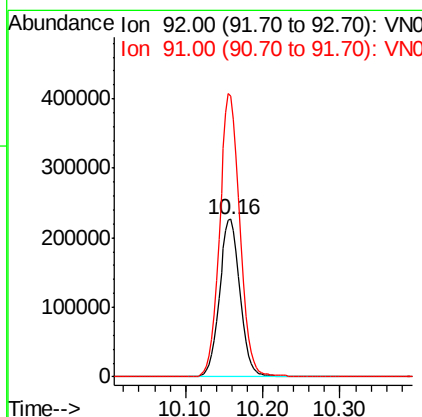
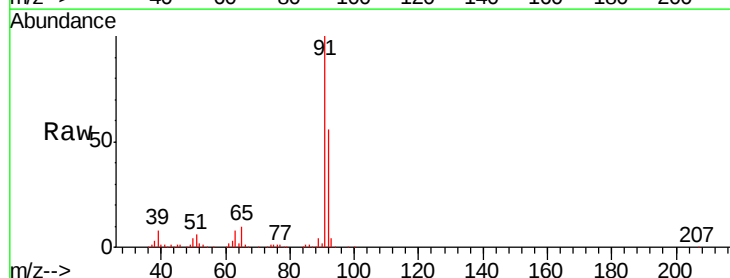
Manual Integrations
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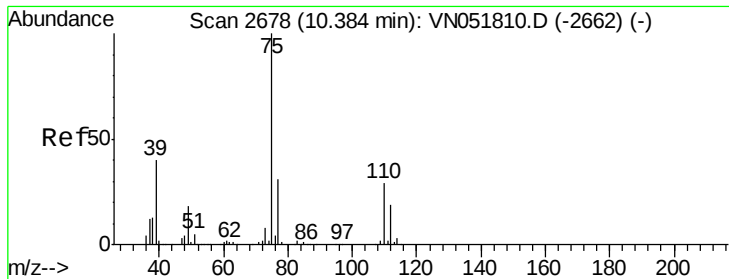
MMDadoda
10/15/2018 3:00:18 PM



#52
Toluene
Concen: 14.75 ug/l
RT: 10.16 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
92	100		
91	177.6	140.6	211.0





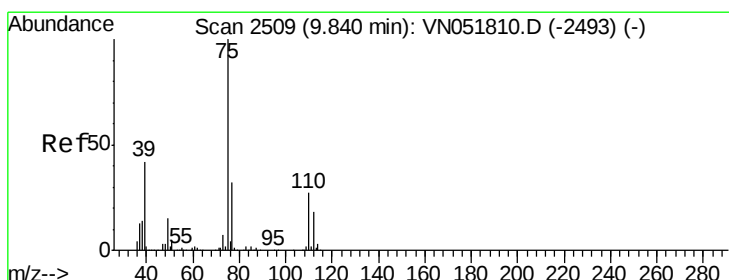
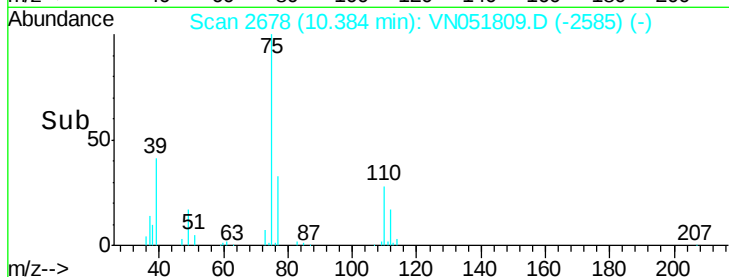
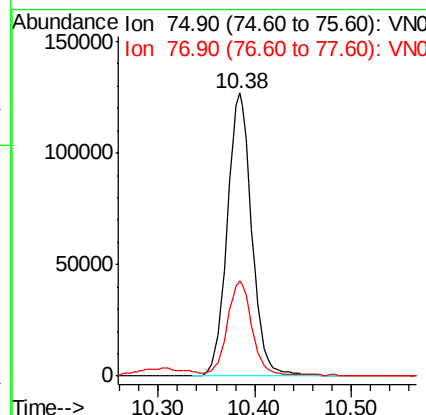
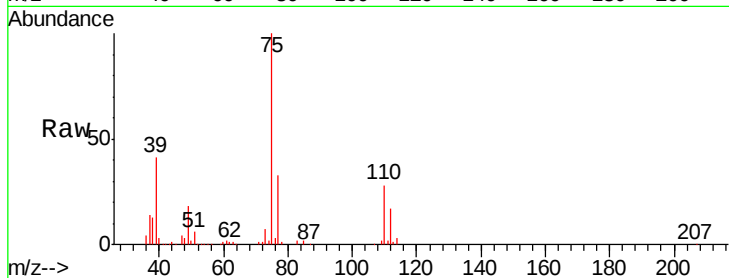
#53
t-1,3-Dichloropropene
Concen: 14.41 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 75 Resp: 223746
Ion Ratio Lower Upper
75 100
77 33.2 25.7 38.5

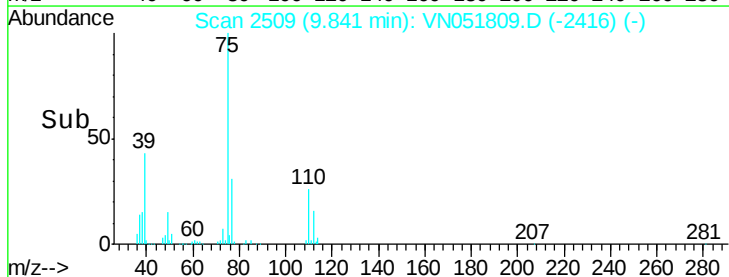
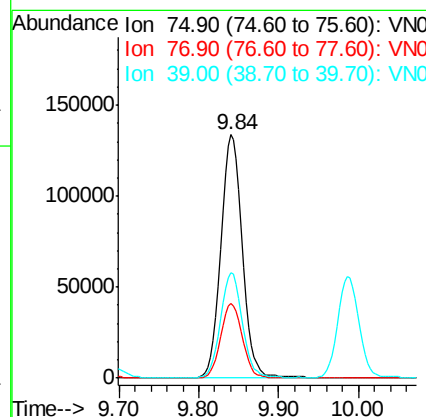
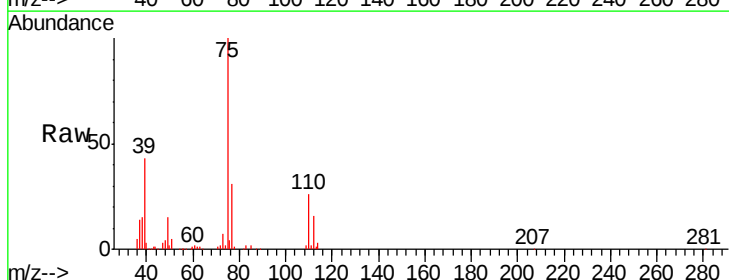
Manual Integrations
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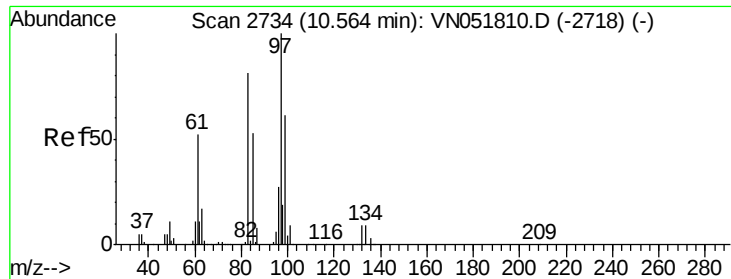
MMDadoda
10/15/2018 3:00:18 PM



#54
cis-1,3-Dichloropropene
Concen: 14.09 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion: 75 Resp: 250392
Ion Ratio Lower Upper
75 100
77 30.5 25.4 38.2
39 43.1 33.0 49.4





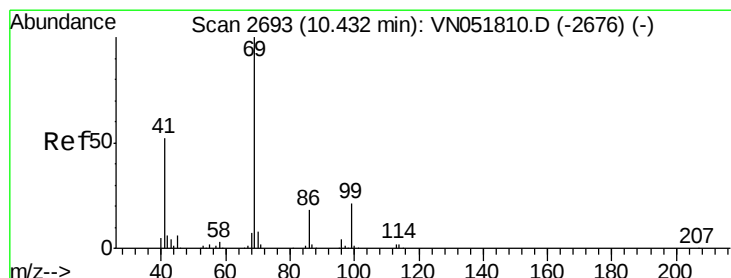
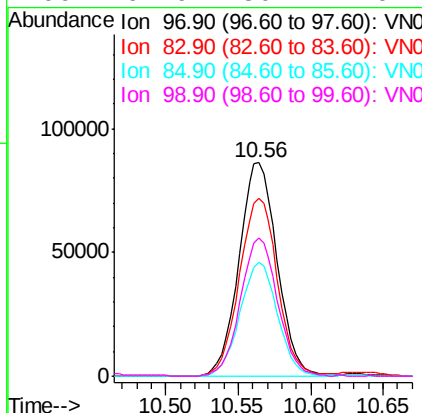
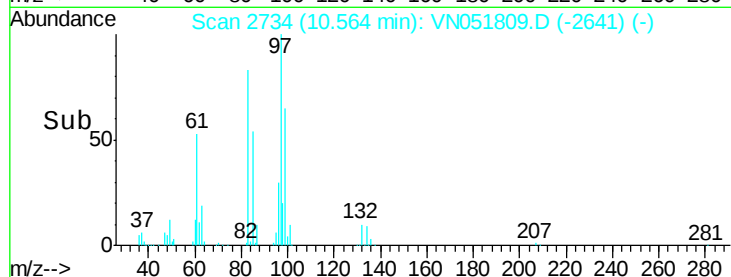
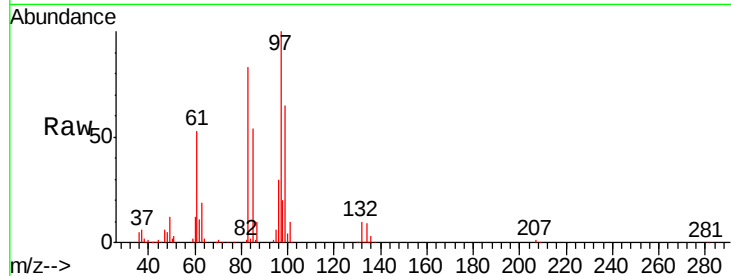
#55
 1,1,2-Trichloroethane
 Concen: 14.93 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion:	97	Resp:	158248
Ion	Ratio	Lower	Upper
97	100		
83	83.3	69.7	104.5
85	53.6	44.5	66.7
99	64.9	50.7	76.1

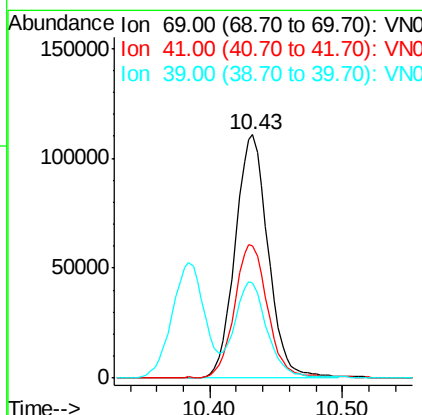
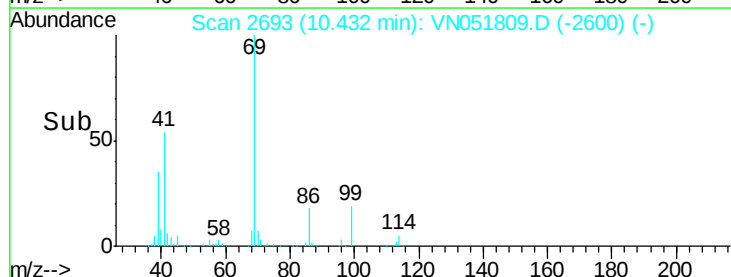
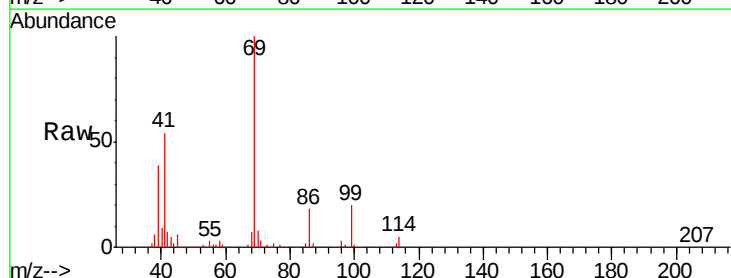
Manual Integrations
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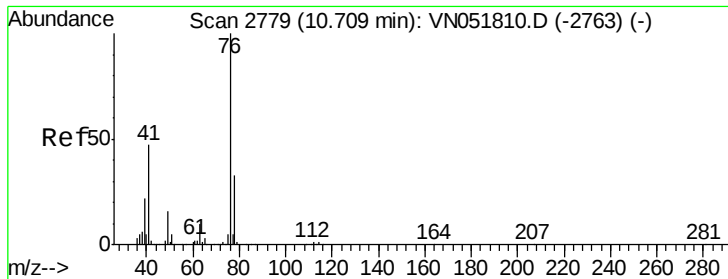
MMDadoda
 10/15/2018 3:00:18 PM



#56
 Ethyl methacrylate
 Concen: 15.90 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Tgt Ion:	69	Resp:	191179
Ion	Ratio	Lower	Upper
69	100		
41	54.1	48.3	72.5
39	38.3	24.0	36.0#





#57

1,3-Dichloropropane

Concen: 14.14 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 247449

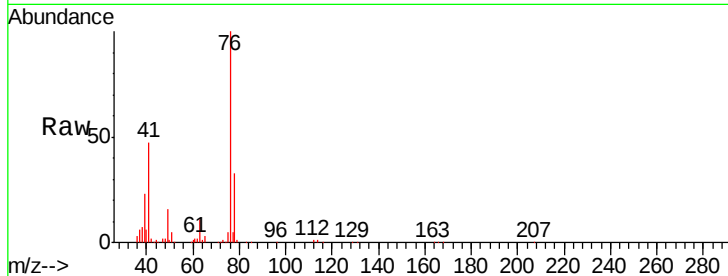
Ion Ratio Lower Upper

76 100

78 32.3 25.5 38.3

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:18 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

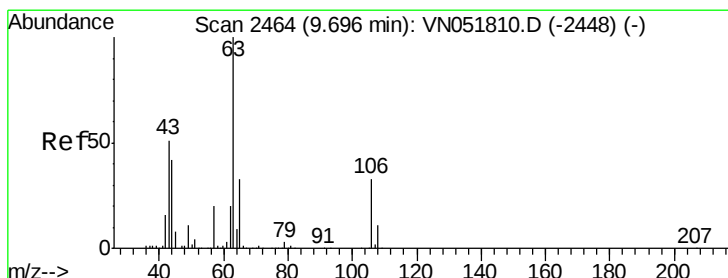
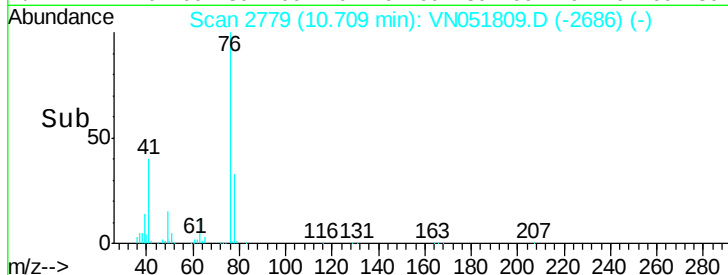
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 78.20 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051809.D

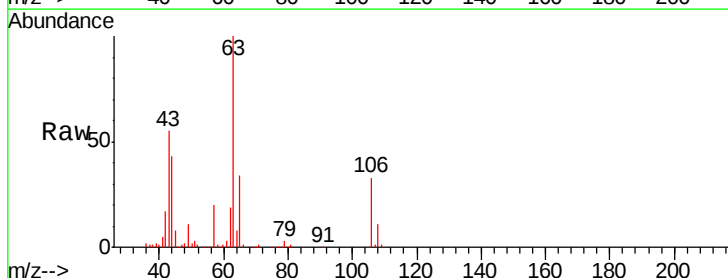
Acq: 11 Oct 2018 11:22

Tgt Ion: 63 Resp: 401438

Ion Ratio Lower Upper

63 100

106 32.2 21.9 32.9



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

250000

200000

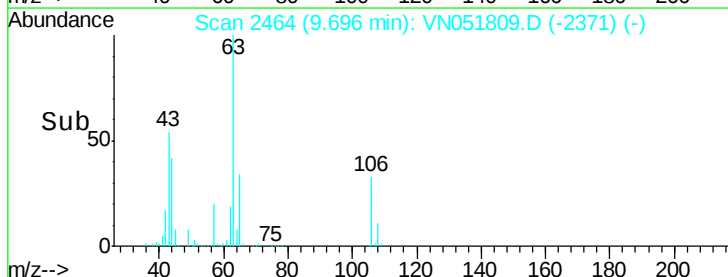
150000

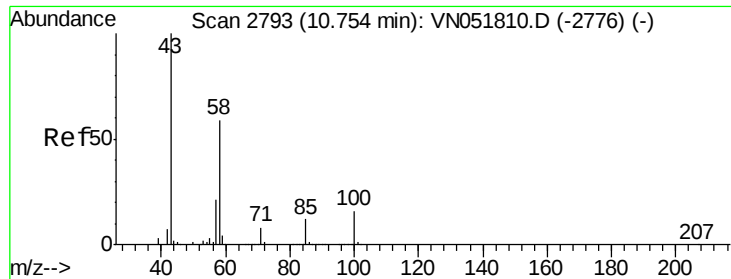
100000

50000

0

Time--> 9.60 9.70 9.80





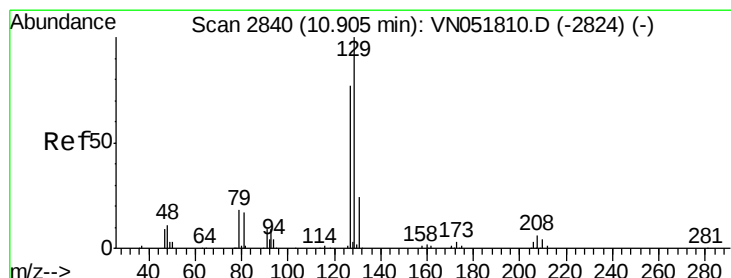
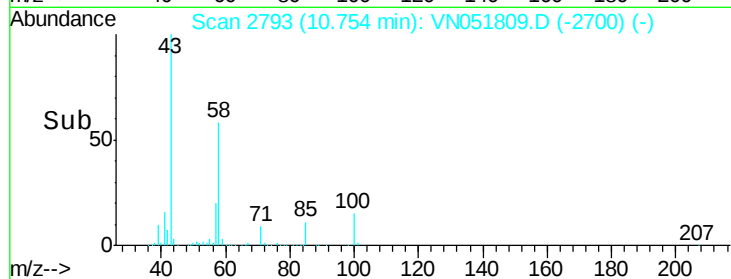
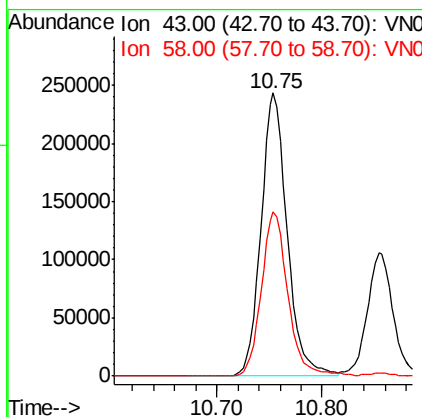
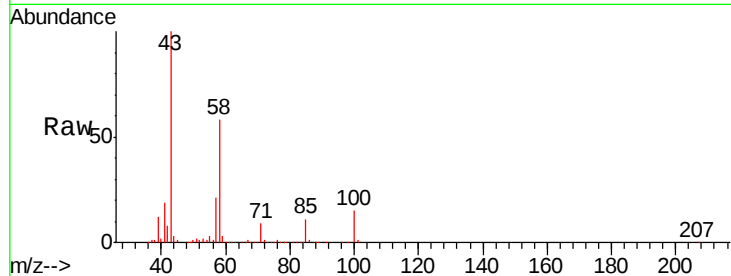
#59
2-Hexanone
Concen: 66.68 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 418308
Ion Ratio Lower Upper
43 100
58 59.2 28.3 85.0

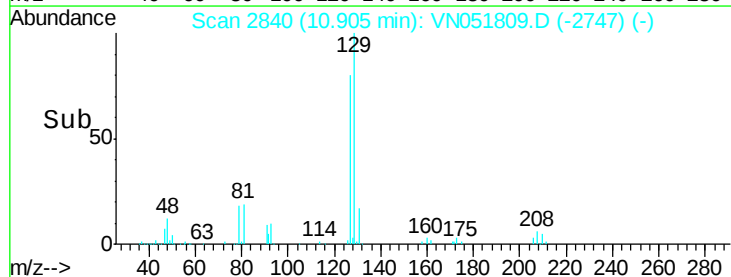
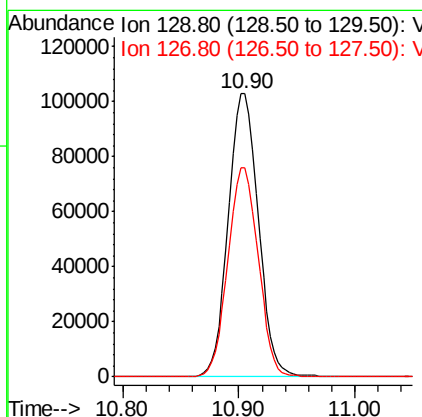
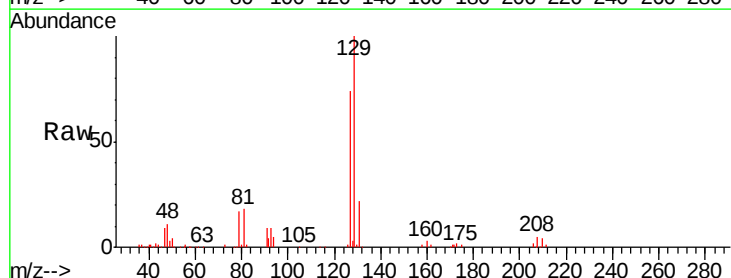
Manual Integrations
APPROVED

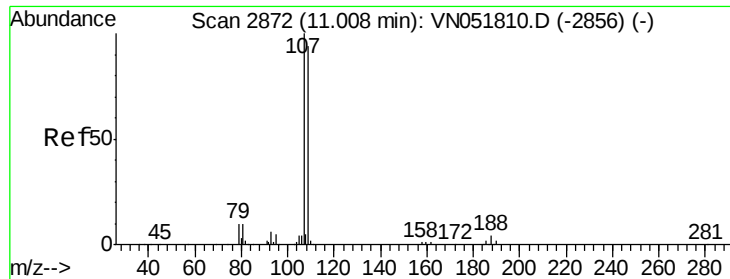
MMDadoda
10/15/2018 3:00:18 PM



#60
Dibromochloromethane
Concen: 15.58 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion: 129 Resp: 184880
Ion Ratio Lower Upper
129 100
127 74.3 38.3 114.9





#61

1,2-Dibromoethane

Concen: 16.11 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 107 Resp: 165122

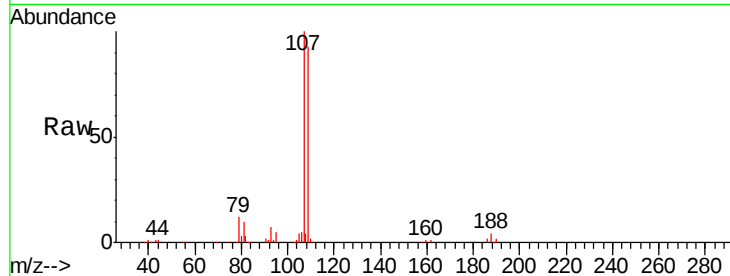
Ion Ratio Lower Upper

107 100

109 92.8 75.4 113.2

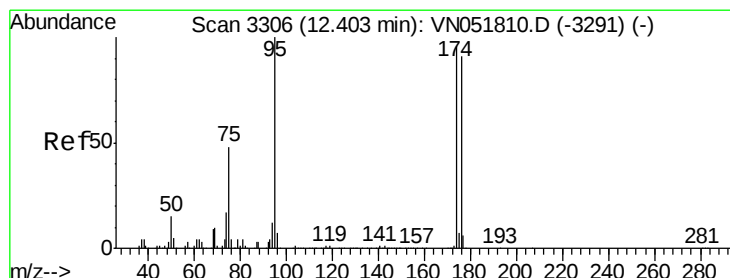
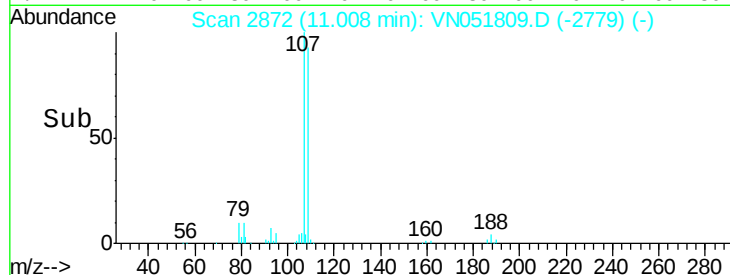
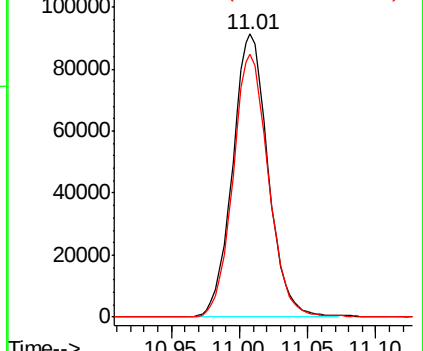
Manual Integrations
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10/15/2018 3:00:18 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 16.11 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

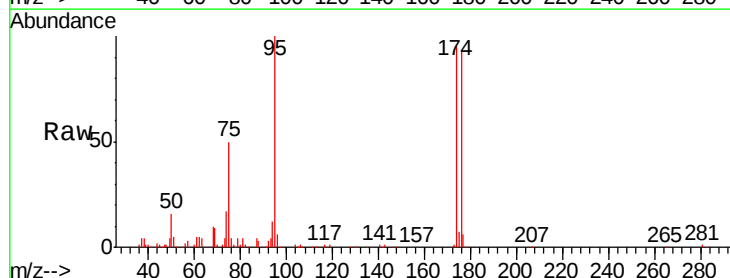
Tgt Ion: 95 Resp: 201199

Ion Ratio Lower Upper

95 100

174 95.0 0.0 183.0

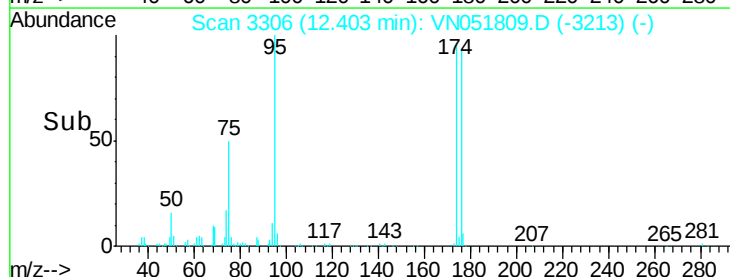
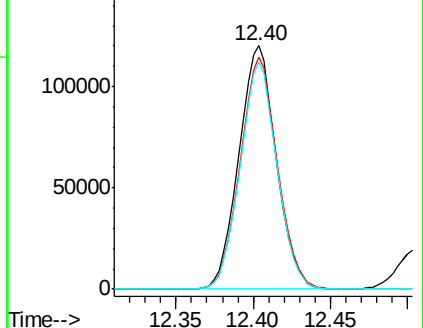
176 91.9 0.0 178.8

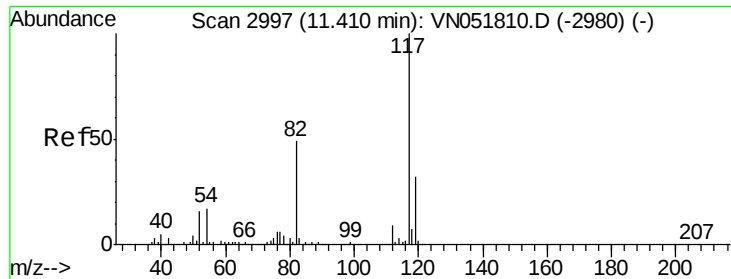


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:117 Resp: 1217851

Ion Ratio Lower Upper

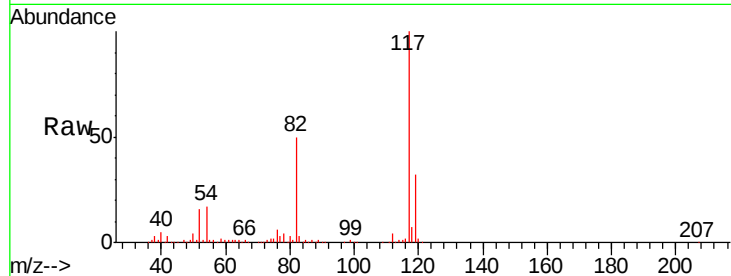
117 100

82 50.5 42.6 64.0

119 32.0 25.8 38.6

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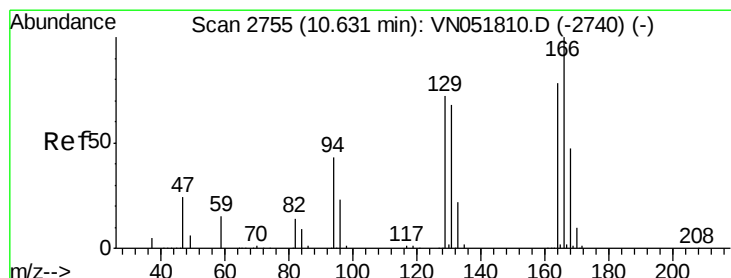
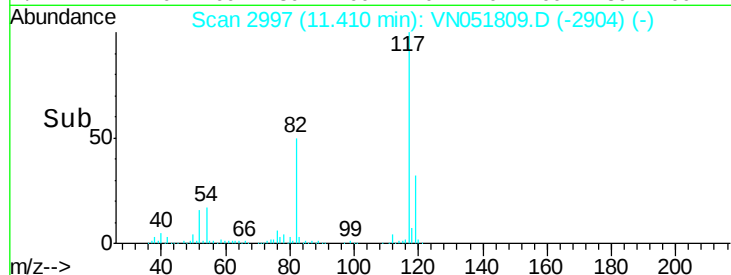
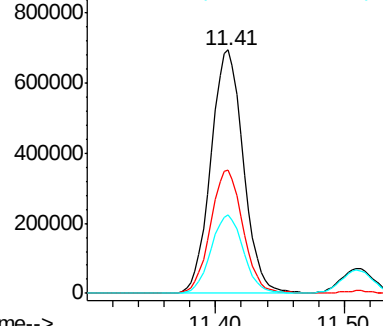
MMDadoda
10/15/2018 3:00:18 PM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 15.96 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Tgt Ion:164 Resp: 184653

Ion Ratio Lower Upper

164 100

166 129.7 103.5 155.3

129 92.9 72.7 109.1

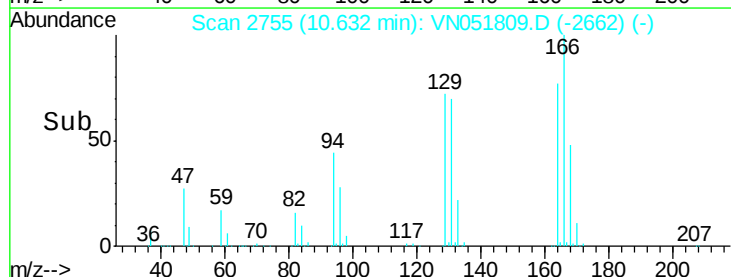
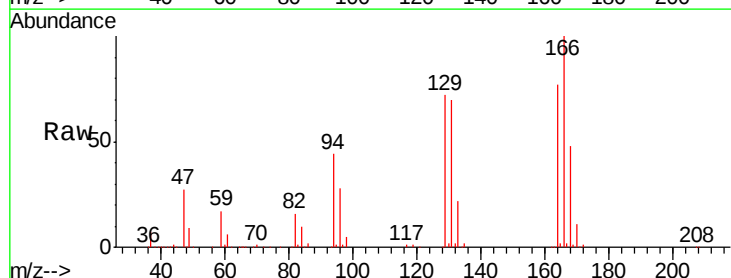
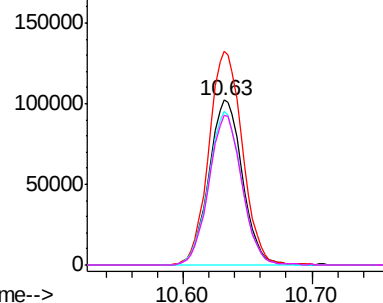
131 90.8 69.5 104.3

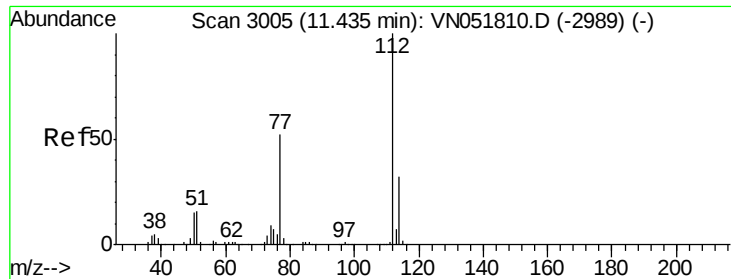
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





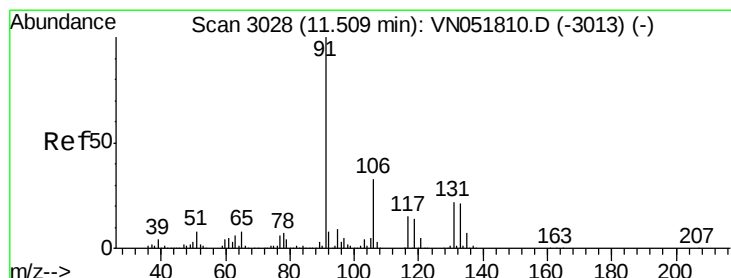
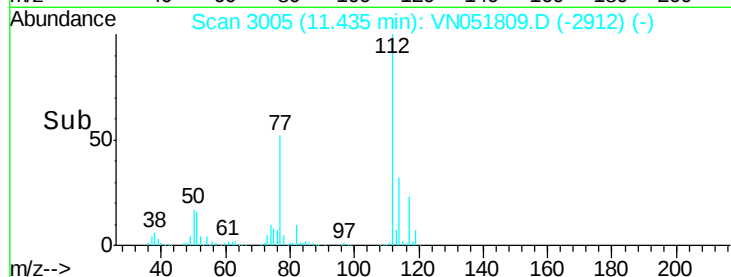
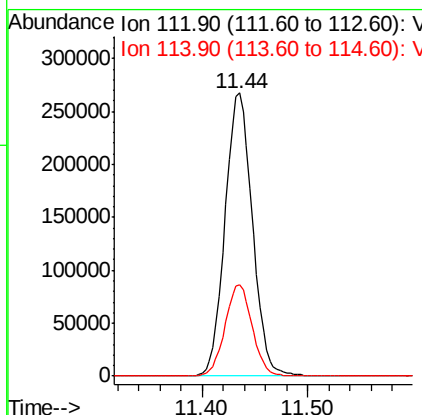
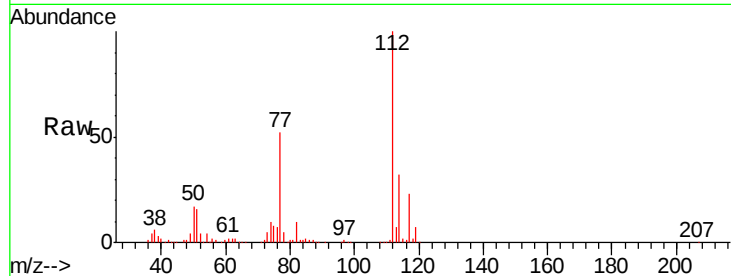
#65
Chlorobenzene
Concen: 15.09 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.6	38.4

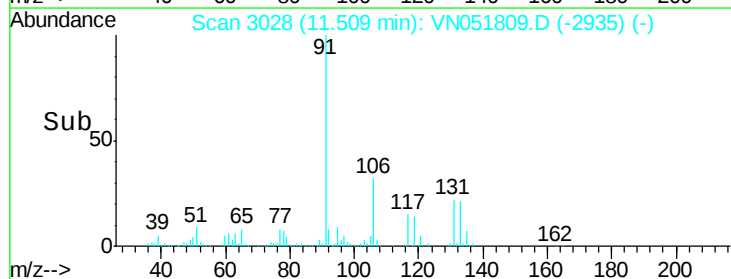
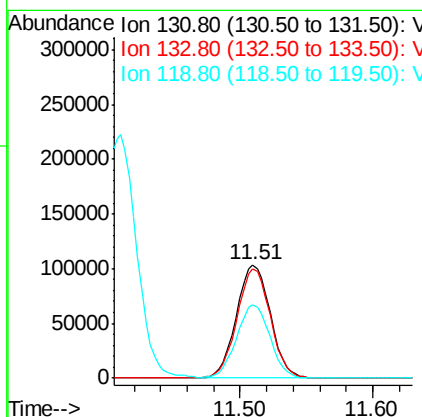
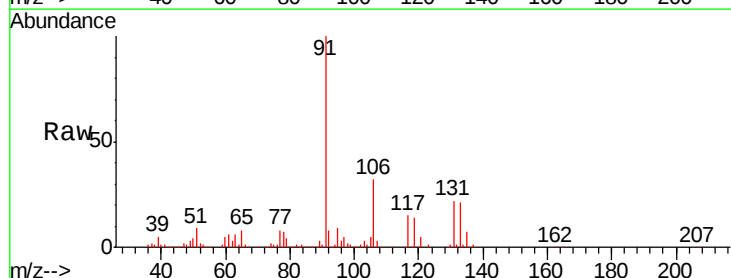
Manual Integrations
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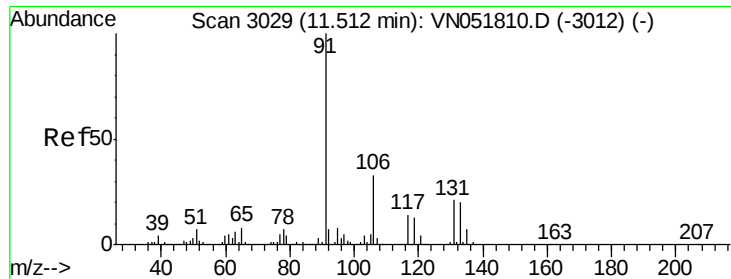
MMDadoda
10/15/2018 3:00:18 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 15.82 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.4	142.3
119	63.8	32.8	98.4





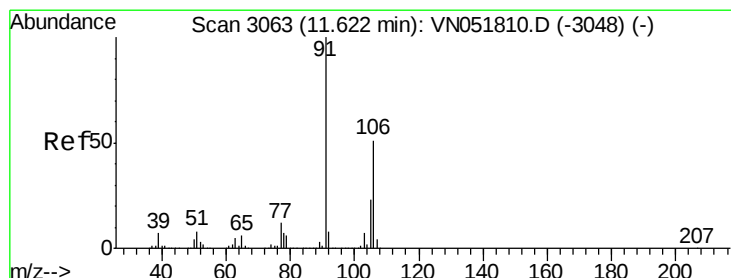
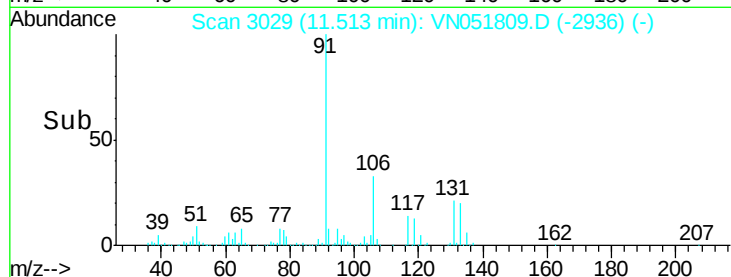
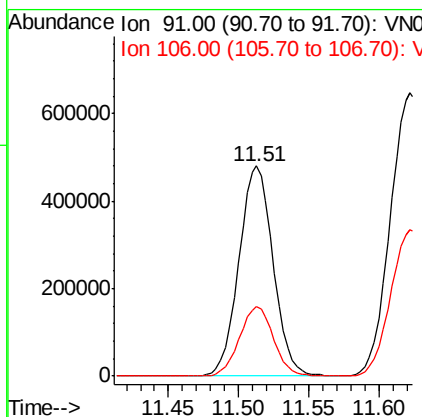
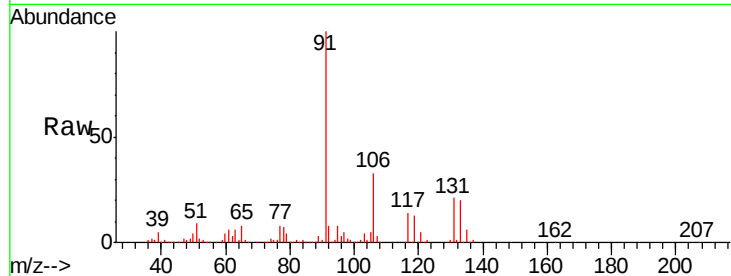
#67
Ethyl Benzene
Concen: 15.79 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 91 Resp: 816943
Ion Ratio Lower Upper
91 100
106 32.9 25.0 37.4

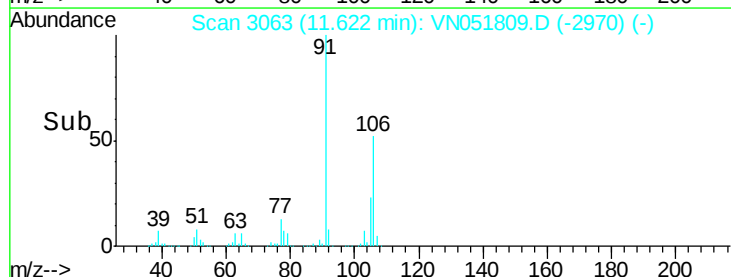
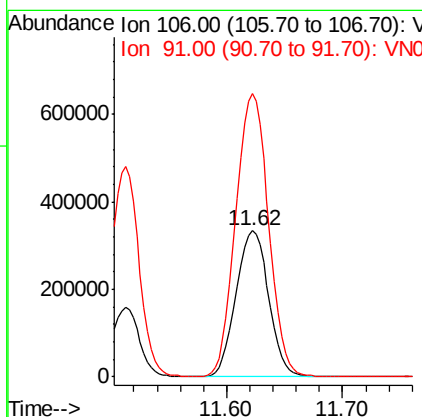
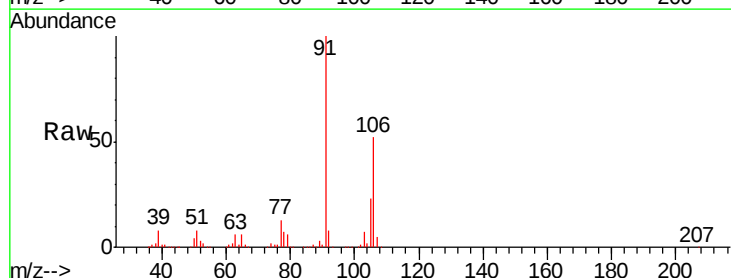
Manual Integrations
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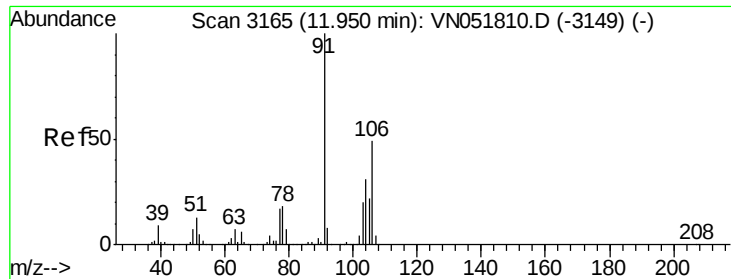
MMDadoda
10/15/2018 3:00:18 PM



#68
m/p-Xylenes
Concen: 33.24 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion: 106 Resp: 652899
Ion Ratio Lower Upper
106 100
91 195.0 161.0 241.6





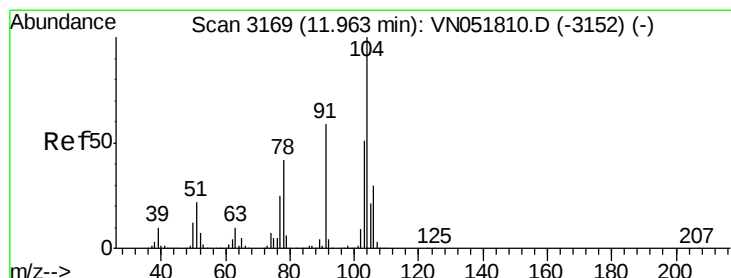
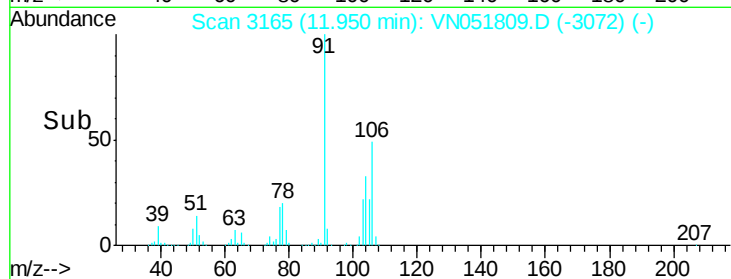
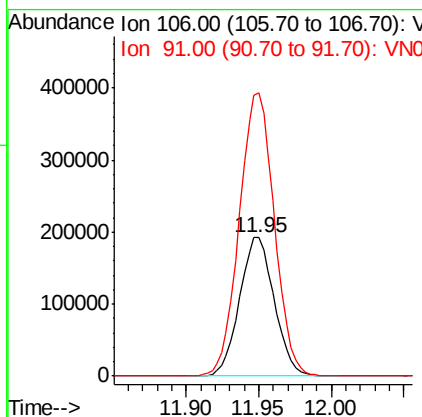
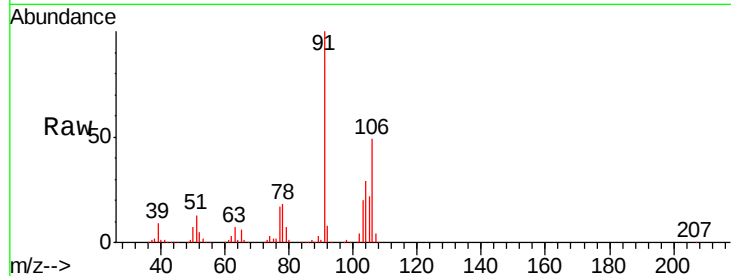
#69
o-Xylene
Concen: 16.99 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
106	100		
91	205.8	106.5	319.5

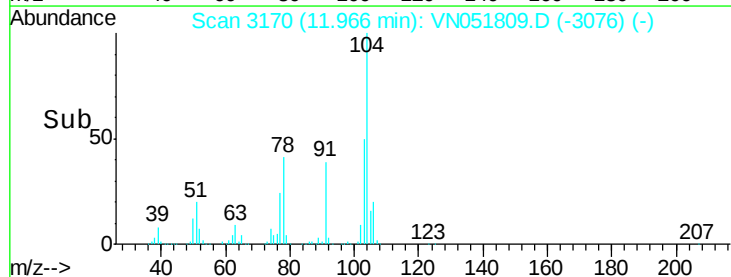
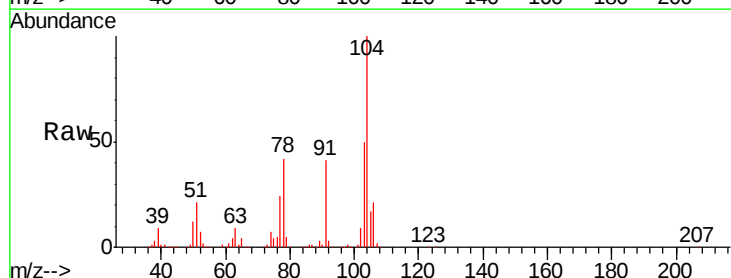
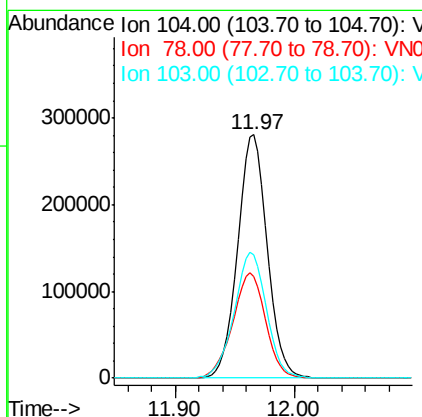
Manual Integrations
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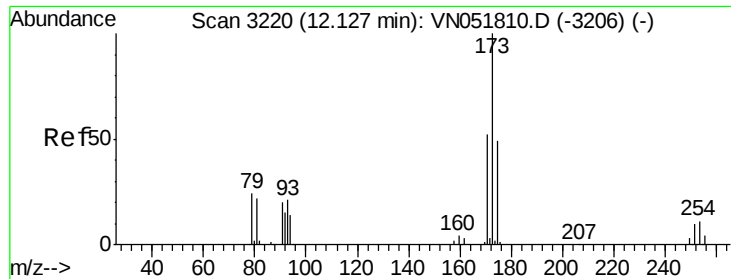
MMDadoda
10/15/2018 3:00:18 PM



#70
Styrene
Concen: 16.41 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.0	38.2	57.4
103	56.3	44.4	66.6





#71

Bromoform

Concen: 15.04 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

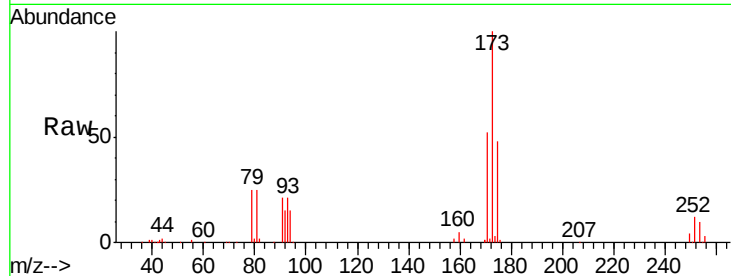
ClientSampleId :

VSTDIC020

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.4	73.4
254	0.1	0.1	0.1

Manual Integrations
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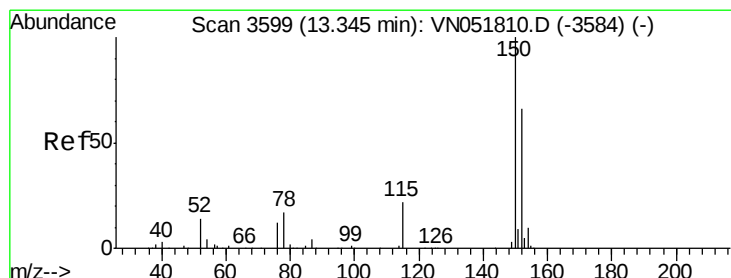
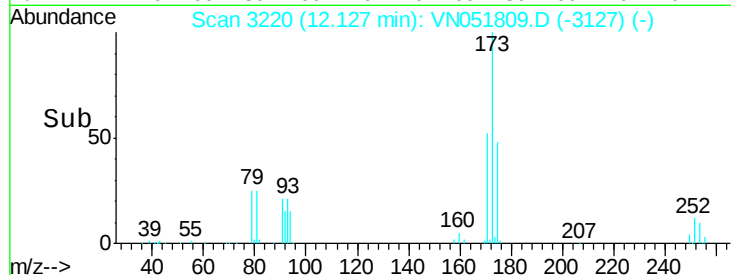
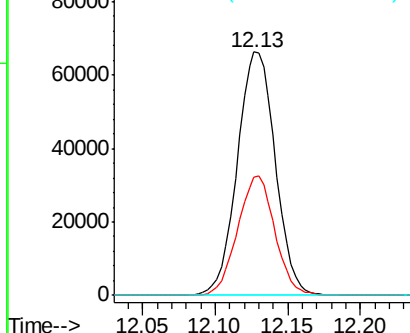
MMDadoda
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

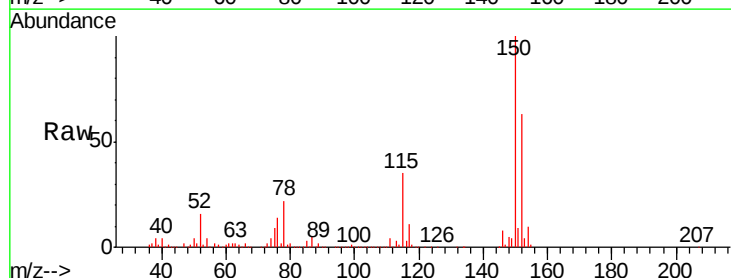
RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

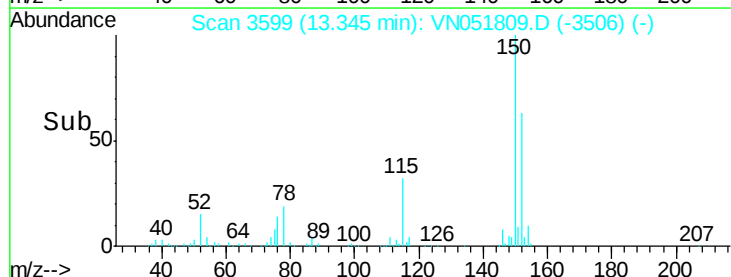
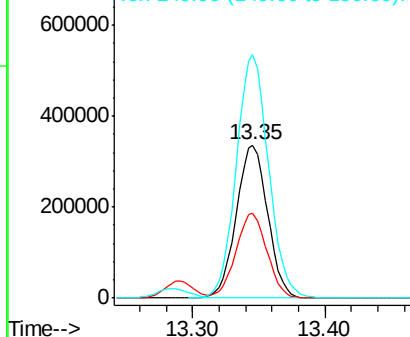
Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	27.8	83.4
150	163.6	0.0	351.4

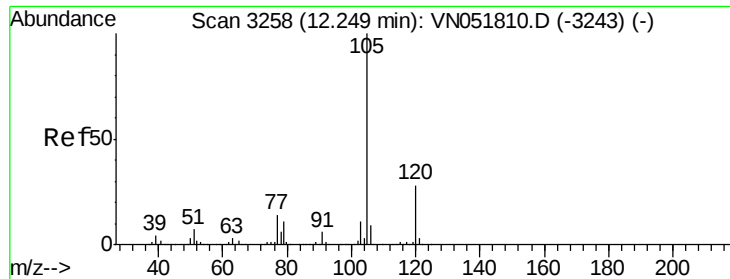


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.58 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 105 Resp: 849088

Ion Ratio Lower Upper

105 100

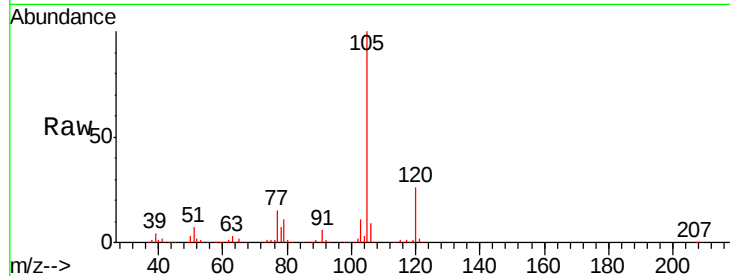
120 26.9 13.5 40.4

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

600000

500000

400000

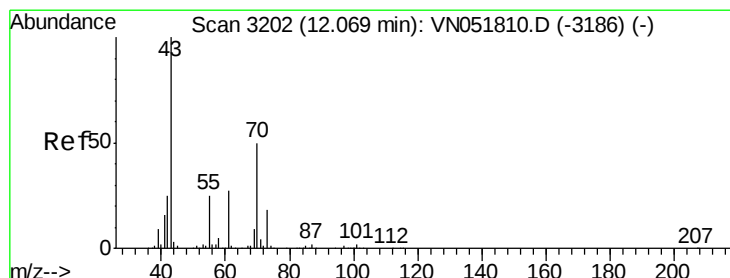
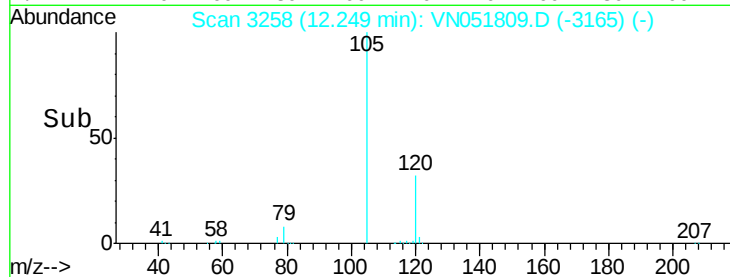
300000

200000

100000

0

Time--> 12.15 12.20 12.25 12.30



#74

N-ethyl acetate

Concen: 15.32 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Tgt Ion: 43 Resp: 175887

Ion Ratio Lower Upper

43 100

70 48.0 36.2 54.2

55 26.4 21.8 32.8

61 27.1 20.5 30.7

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

12.07

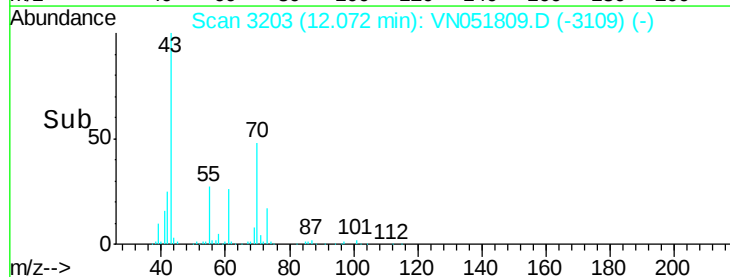
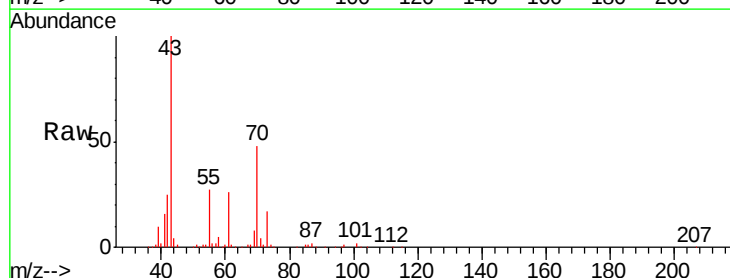
150000

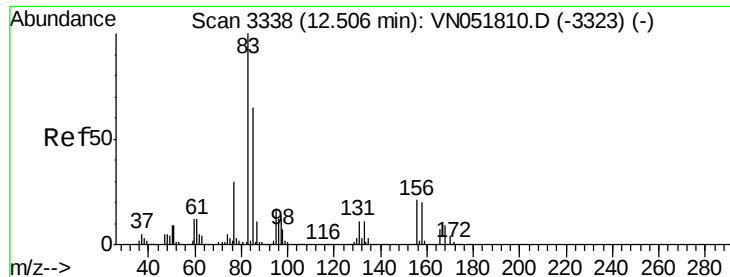
100000

50000

0

Time--> 12.00 12.05 12.10 12.15





#75

1,1,2,2-Tetrachloroethane

Concen: 15.40 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 189576
Ion Ratio Lower Upper

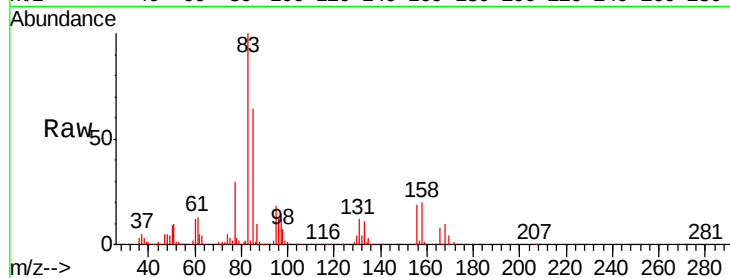
83 100

131 11.8 5.3 15.9

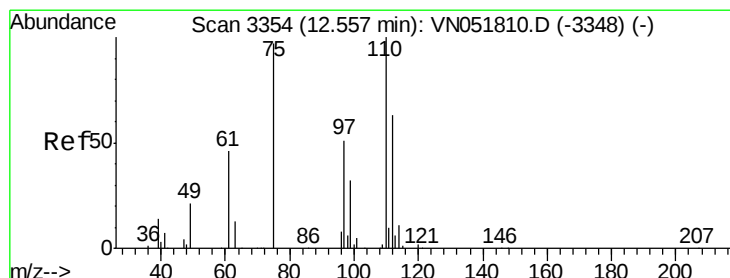
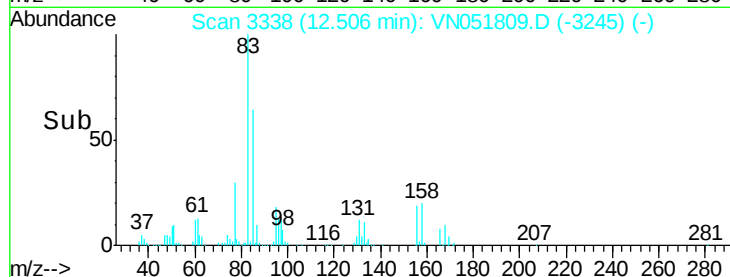
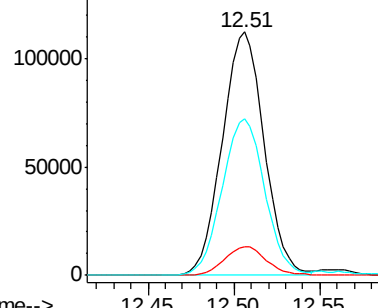
85 65.5 31.9 95.7

Manual Integrations
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10/15/2018 3:00:18 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): VN
Ion 84.90 (84.60 to 85.60): VN



#76

1,2,3-Trichloropropane

Concen: 15.70 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

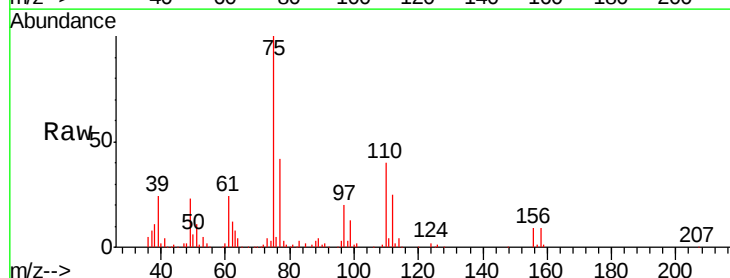
Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

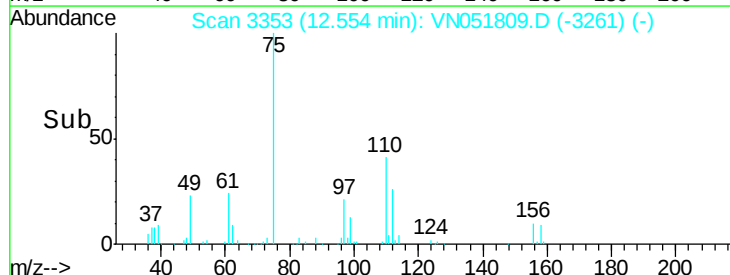
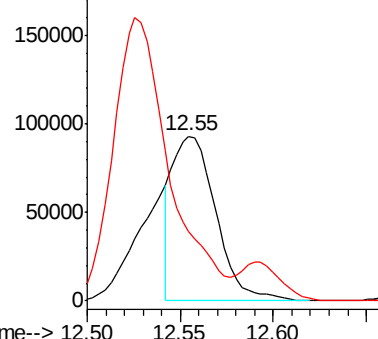
Tgt Ion: 75 Resp: 151740
Ion Ratio Lower Upper

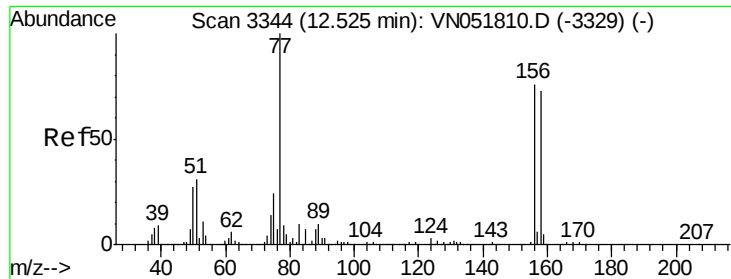
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN





#77

Bromobenzene

Concen: 16.53 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

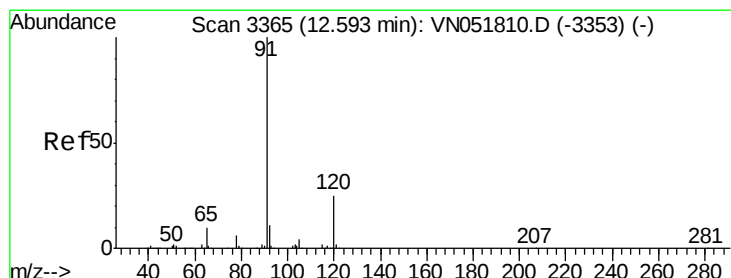
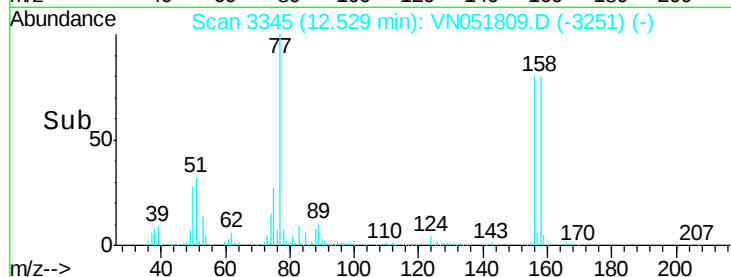
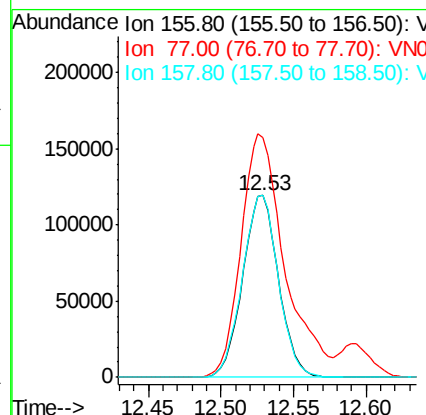
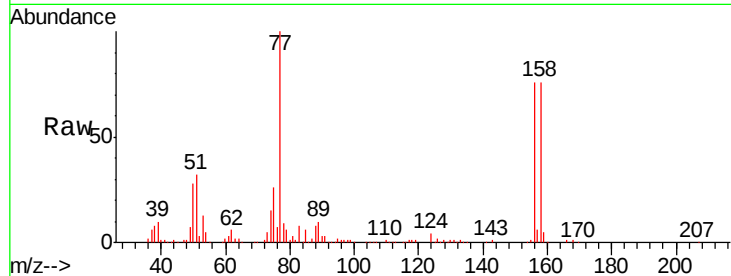
ClientSampleId :

VSTDIC020

Tgt Ion:	156	Resp:	205285
Ion Ratio	Lower	Upper	
156	100		
77	163.5	89.9	269.7
158	100.4	49.3	147.9

Manual Integrations
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#78

n-propylbenzene

Concen: 17.64 ug/l

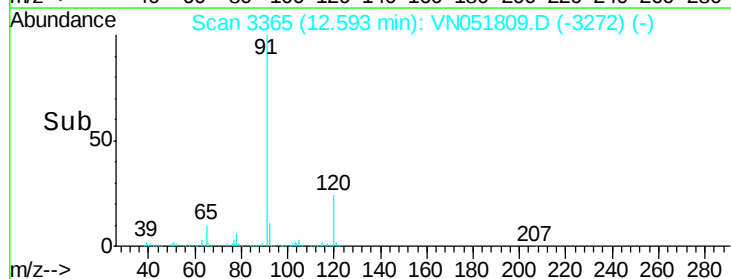
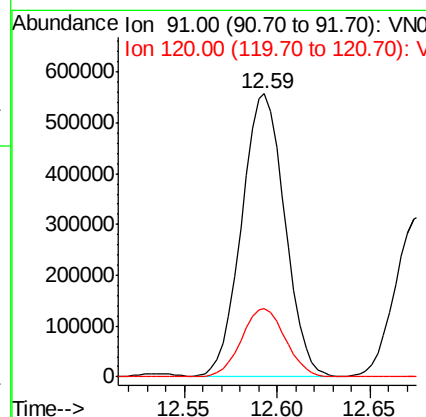
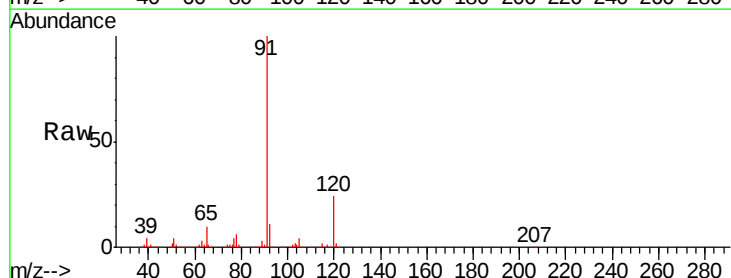
RT: 12.59 min Scan# 3365

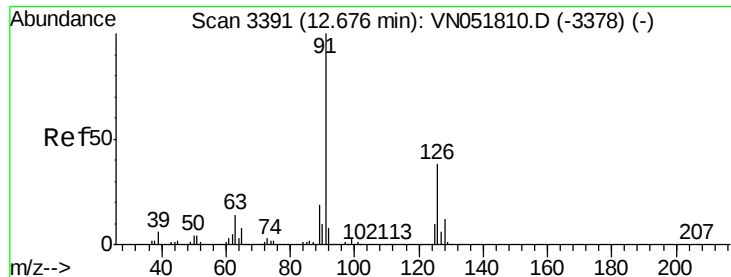
Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Tgt Ion:	91	Resp:	900351
Ion Ratio	Lower	Upper	
91	100		
120	24.6	11.7	35.0





#79

2-Chlorotoluene

Concen: 16.58 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 526992

Ion Ratio Lower Upper

91 100

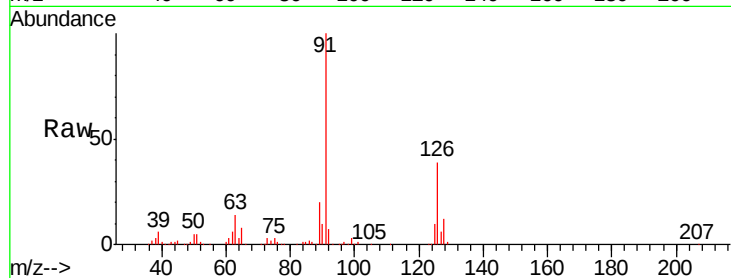
126 38.1 17.8 53.3

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN051810.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN051810.D (-3378) (-)

600000

500000

400000

300000

200000

100000

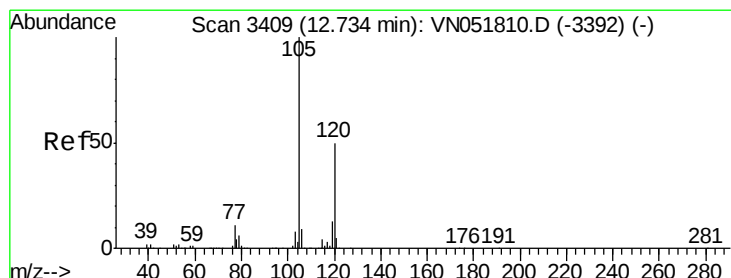
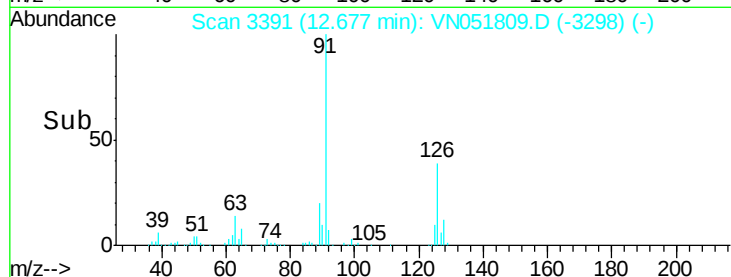
0

12.60

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 18.86 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051809.D

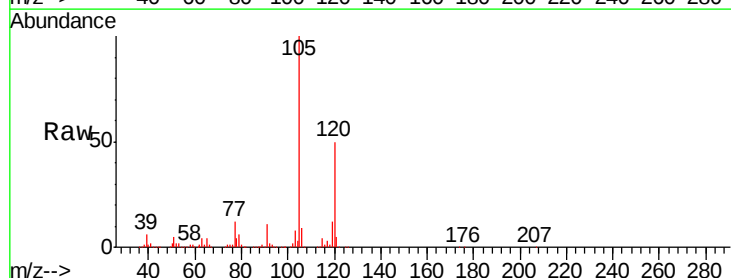
Acq: 11 Oct 2018 11:22

Tgt Ion: 105 Resp: 695231

Ion Ratio Lower Upper

105 100

120 50.0 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN051810.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN051810.D (-3392) (-)

500000

400000

300000

200000

100000

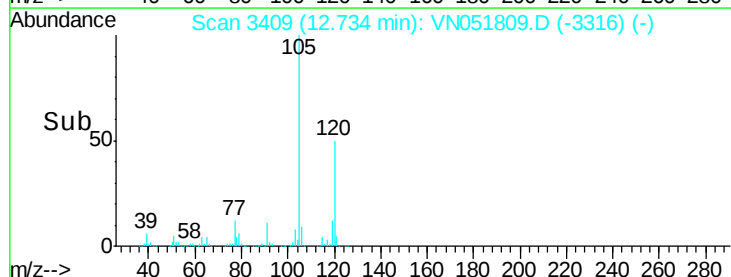
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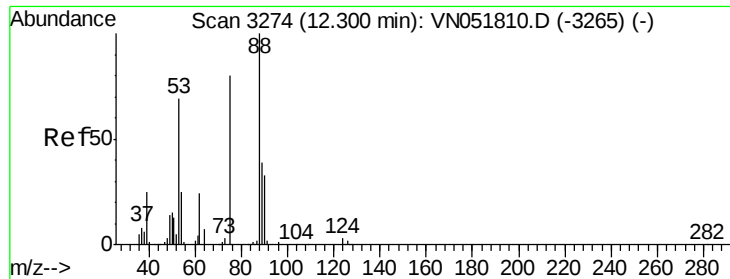
12.65

12.70

12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 16.63 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN051809.D

Acq: 11 Oct 2018 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 47559
Ion Ratio Lower Upper

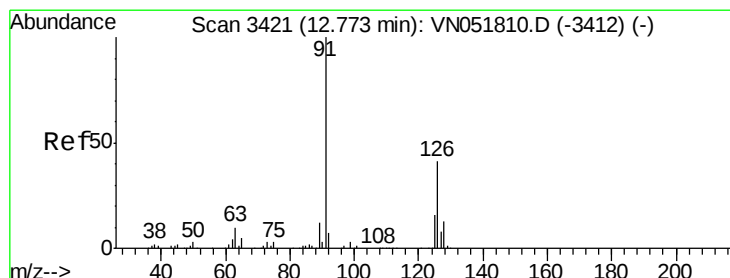
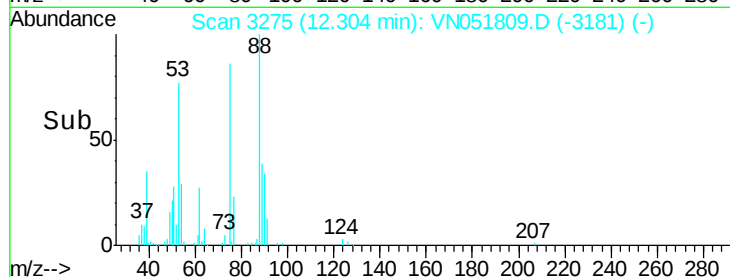
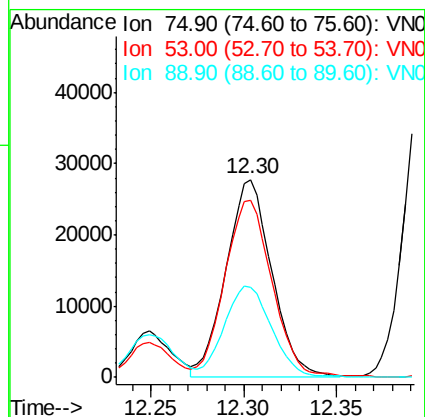
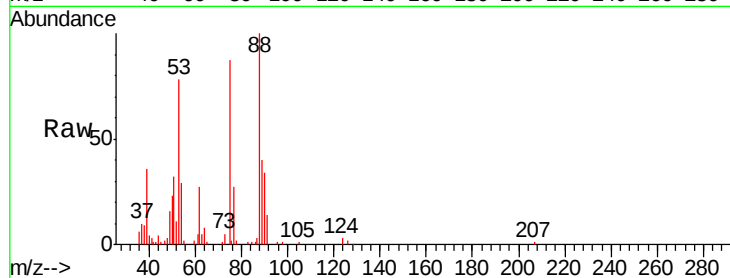
75 100

53 91.5 68.9 103.3

89 46.1 36.1 54.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 16.46 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

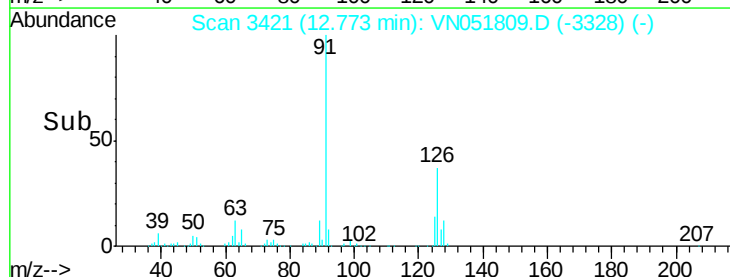
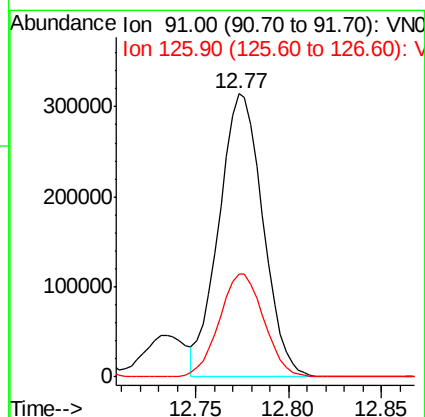
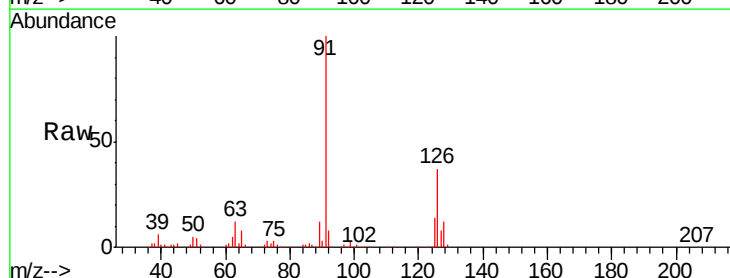
Lab File: VN051809.D

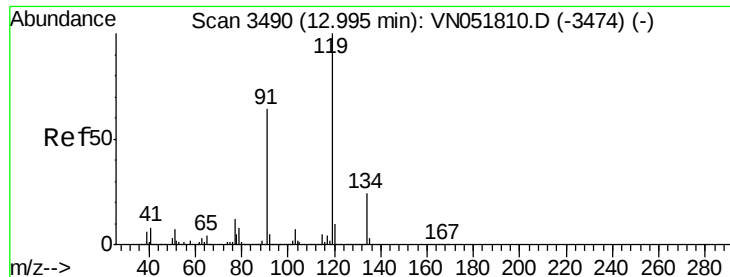
Acq: 11 Oct 2018 11:22

Tgt Ion: 91 Resp: 516498
Ion Ratio Lower Upper

91 100

126 36.9 17.5 52.5





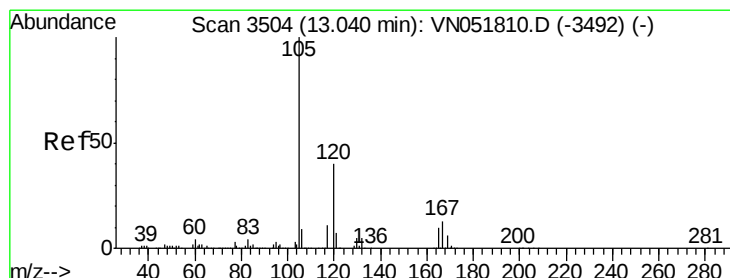
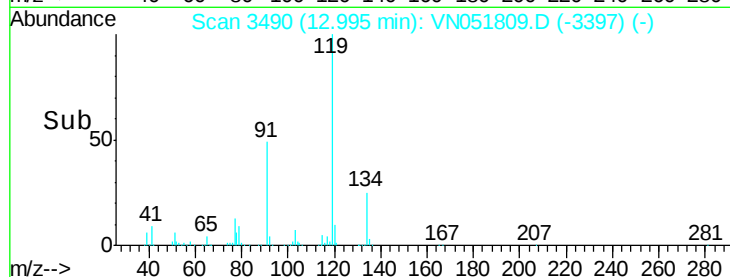
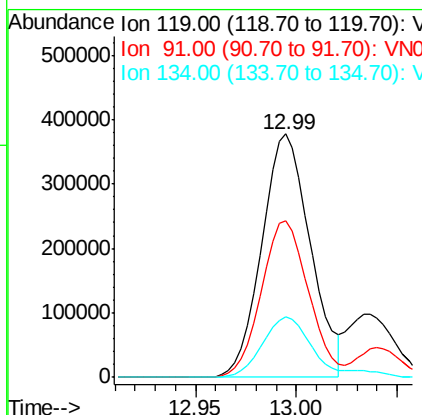
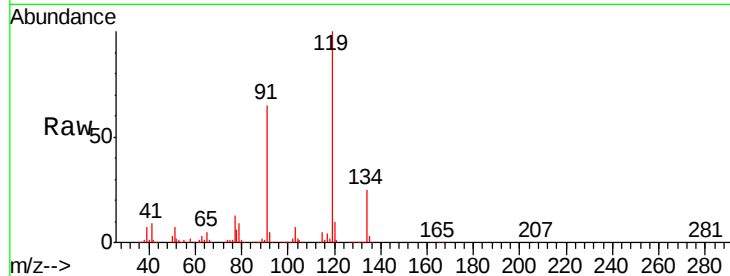
#83
 tert-Butylbenzene
 Concen: 19.81 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
119	100		
91	62.8	31.6	94.7
134	26.7	13.4	40.1

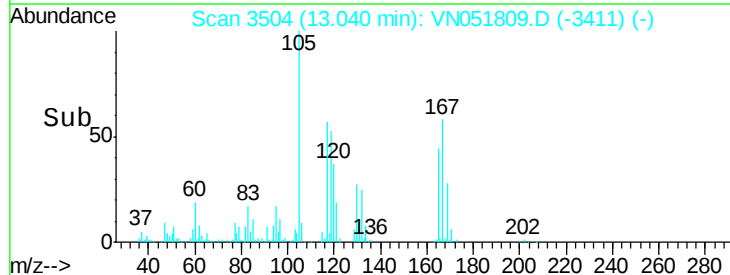
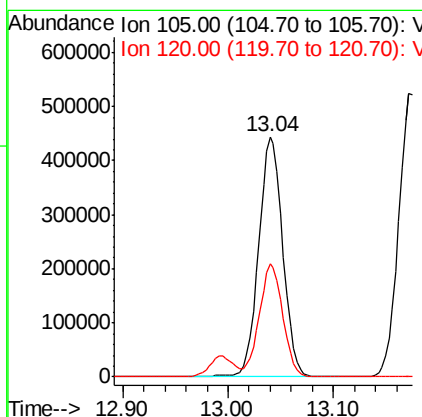
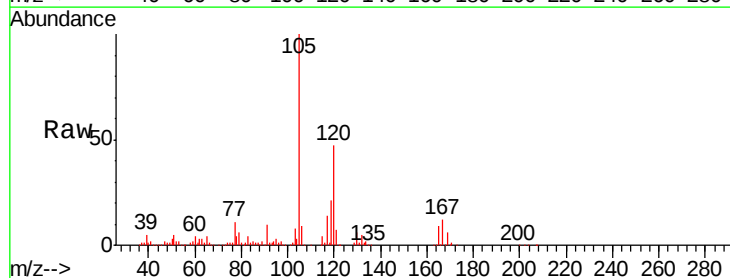
Manual Integrations
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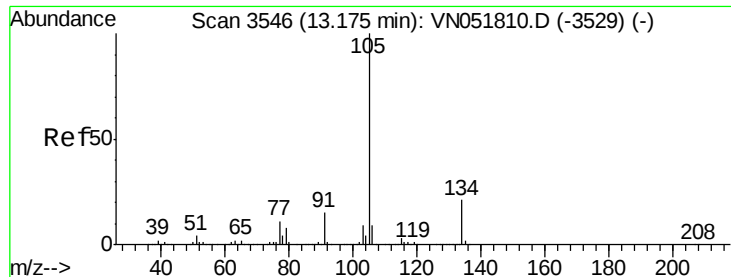
MMDadoda
 10/15/2018 3:00:18 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.03 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.9	68.8





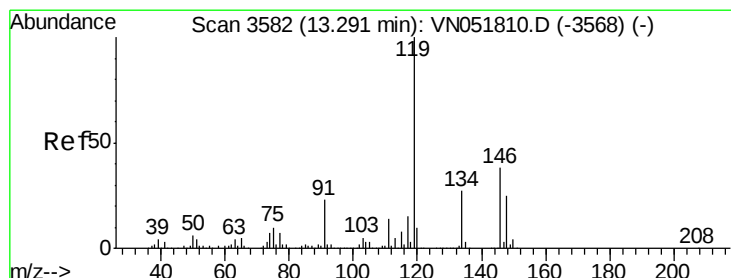
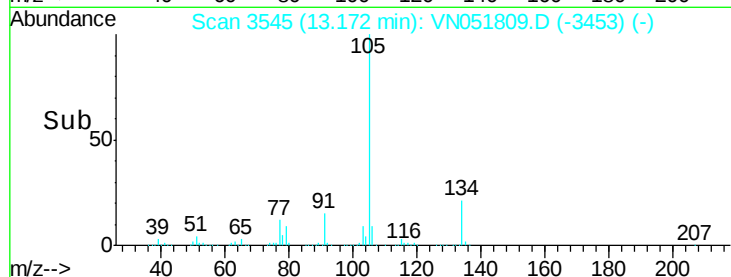
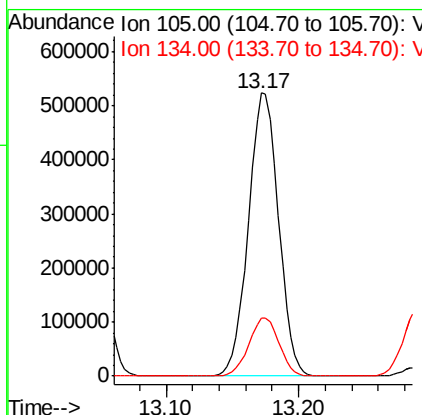
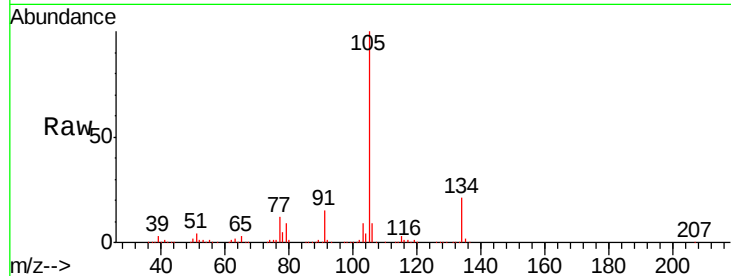
#85
 sec-Butylbenzene
 Concen: 19.77 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.3	30.8

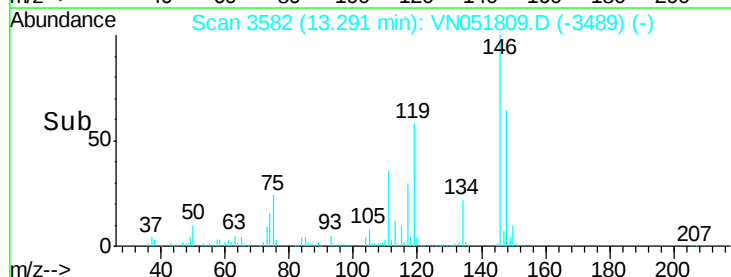
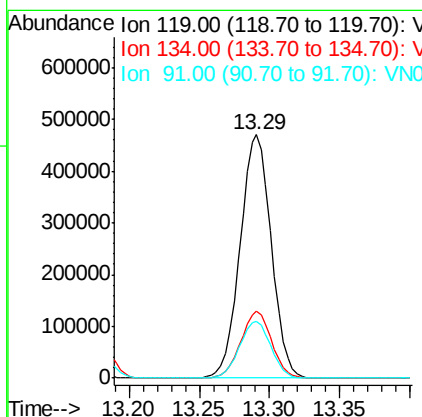
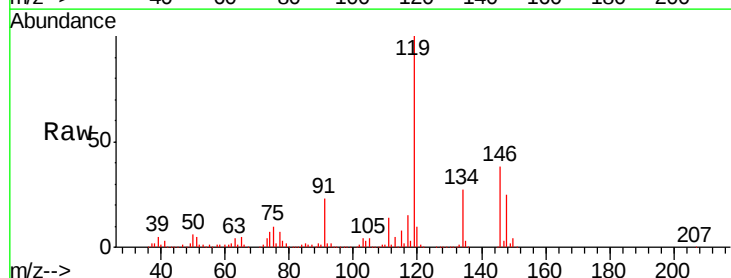
Manual Integrations
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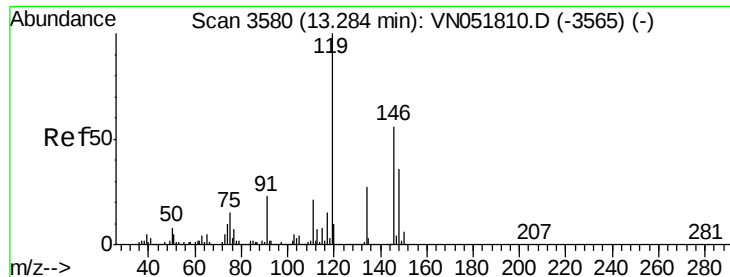
MMDadoda
 10/15/2018 3:00:18 PM



#86
 p-Isopropyltoluene
 Concen: 20.28 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.3	13.7	41.0
91	23.4	11.2	33.5





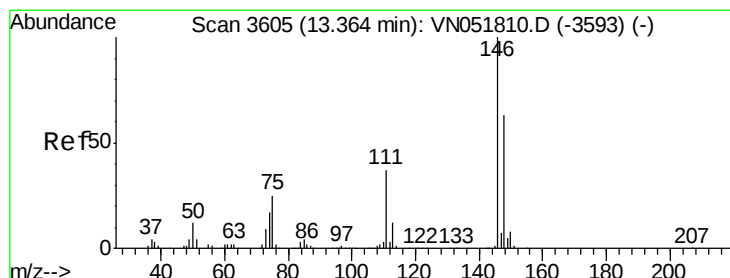
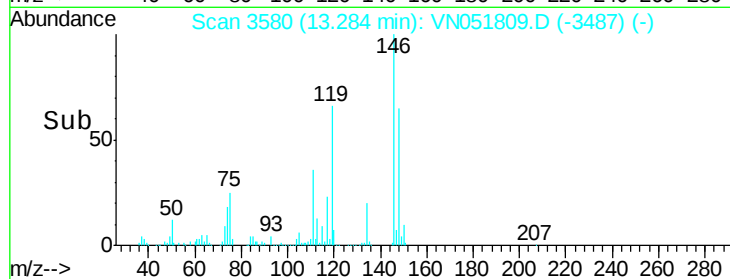
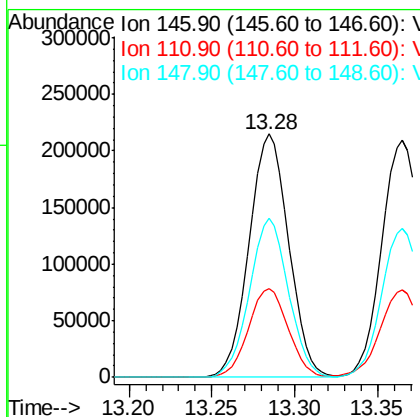
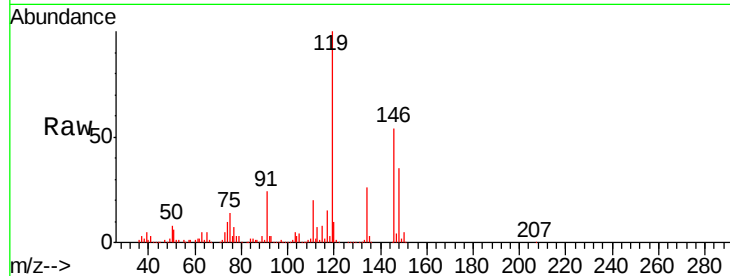
#87
 1,3-Dichlorobenzene
 Concen: 16.91 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	19.1	57.3
148	64.3	32.2	96.6

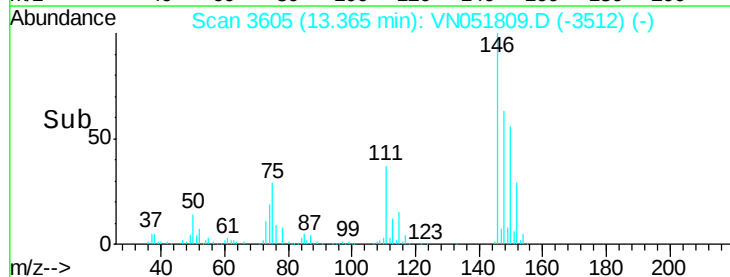
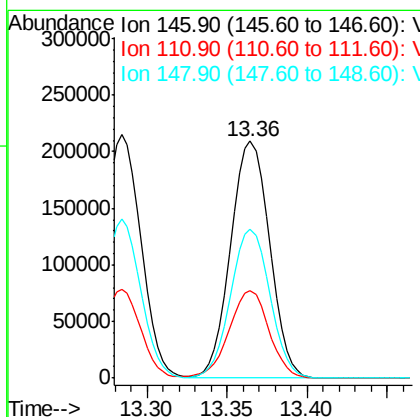
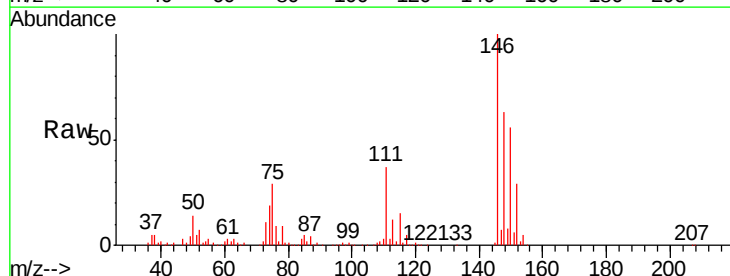
Manual Integrations
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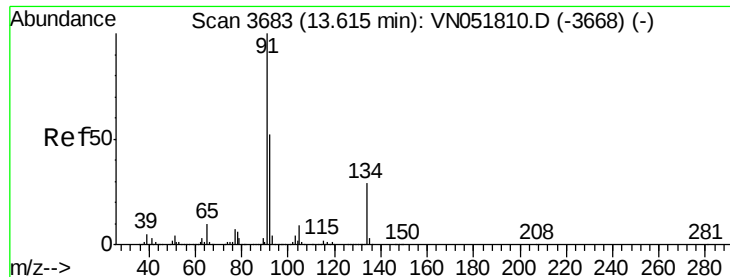
MMDadoda
 10/15/2018 3:00:18 PM



#88
 1,4-Dichlorobenzene
 Concen: 16.79 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.8	56.3
148	63.3	32.2	96.6





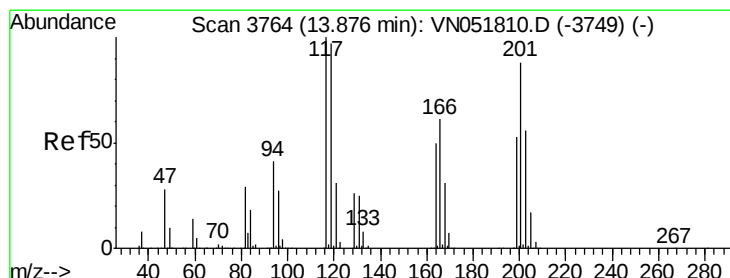
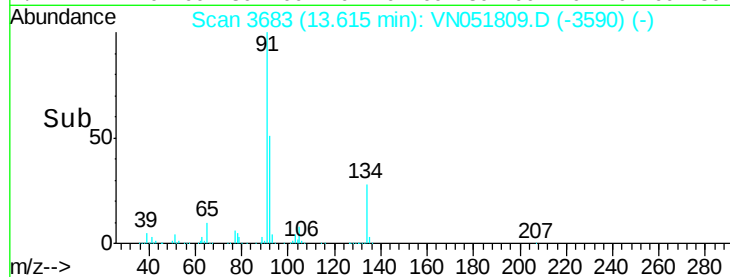
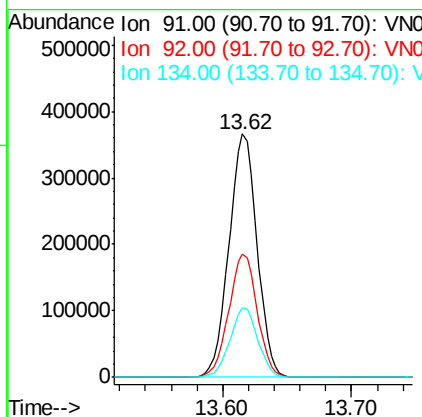
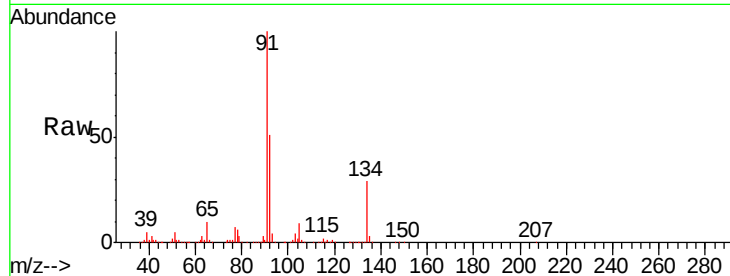
#89
n-Butylbenzene
Concen: 19.38 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.0	26.1	78.2
134	28.4	13.2	39.6

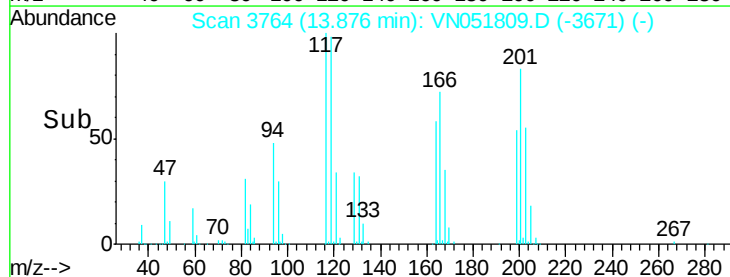
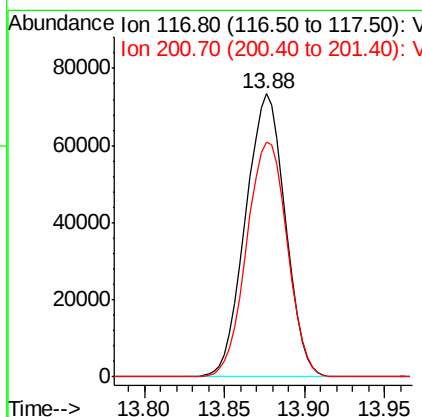
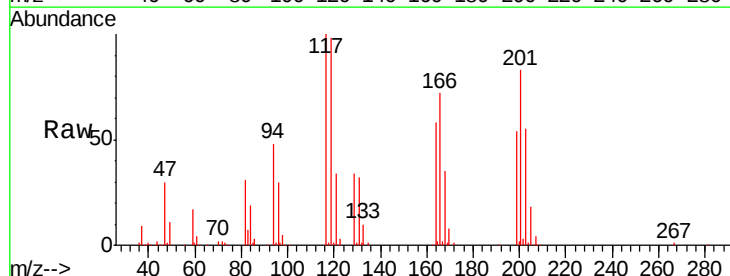
Manual Integrations
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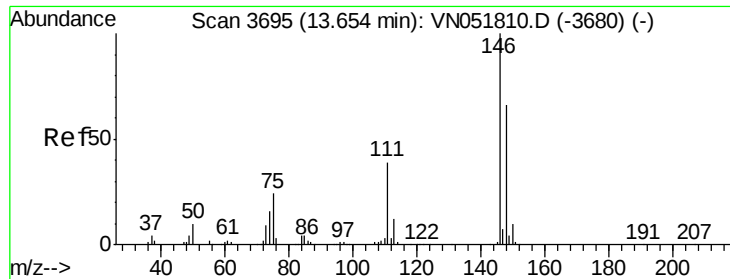
MMDadoda
10/15/2018 3:00:18 PM



#90
Hexachloroethane
Concen: 16.93 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.7	46.0	137.8





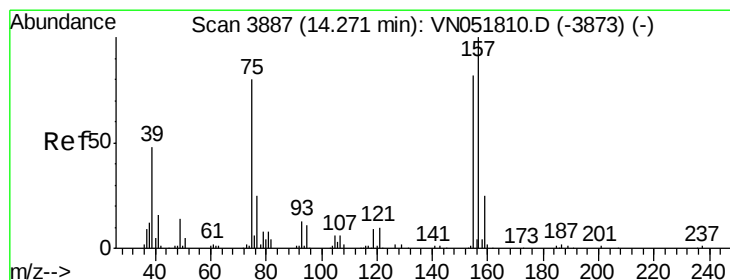
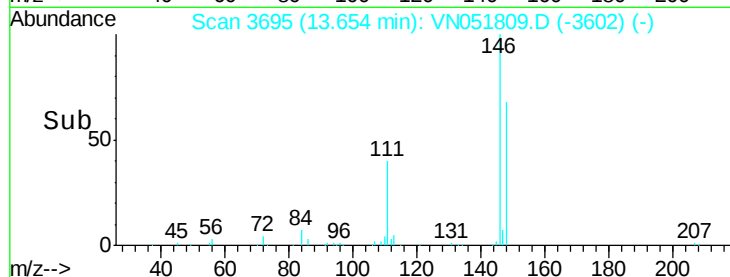
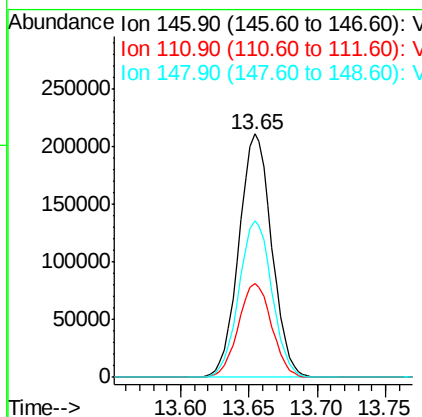
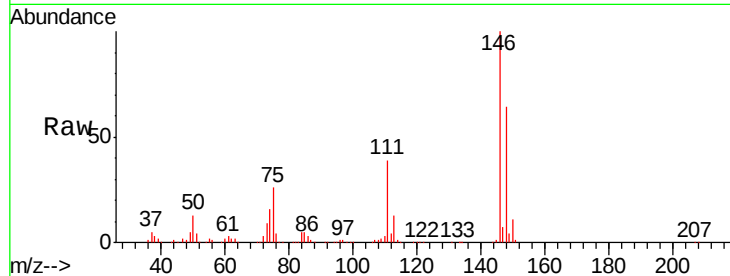
#91
 1,2-Dichlorobenzene
 Concen: 17.34 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.8	59.3
148	64.8	32.3	96.8

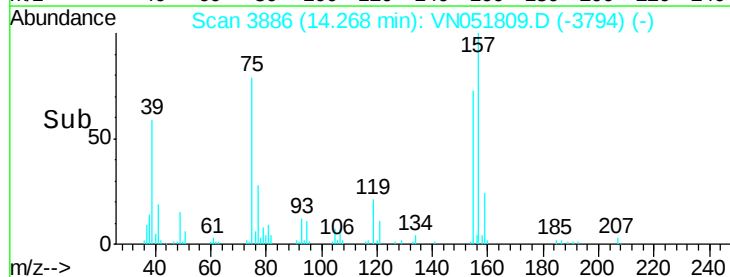
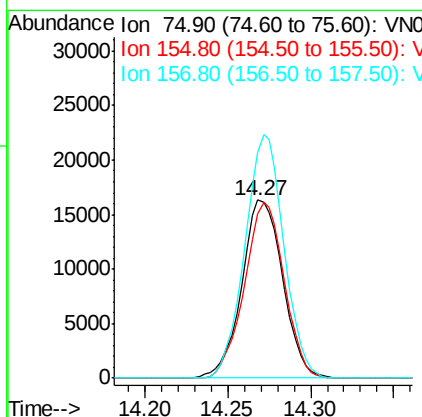
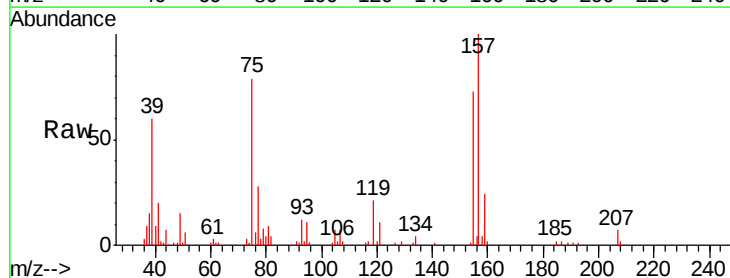
Manual Integrations
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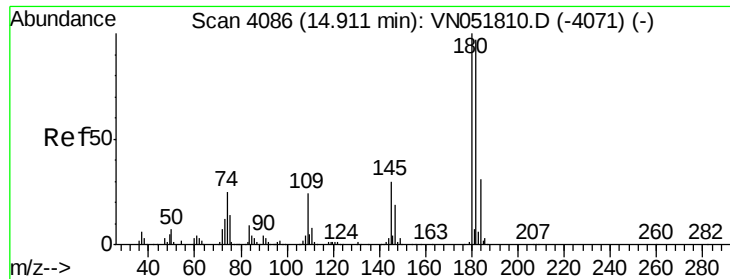
MMDadoda
 10/15/2018 3:00:18 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.09 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.5	46.4	139.1
157	130.0	60.7	182.0





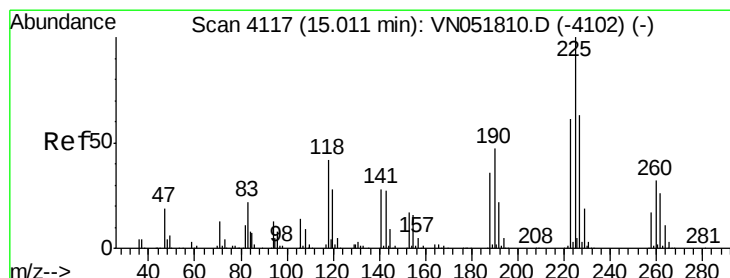
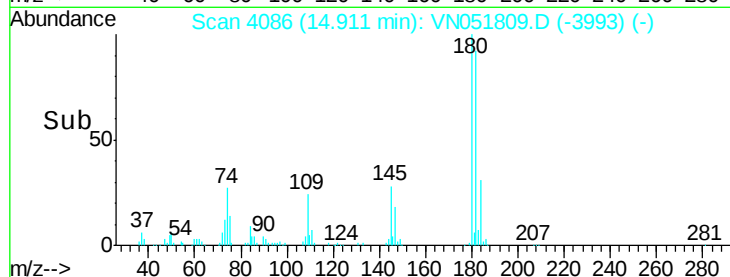
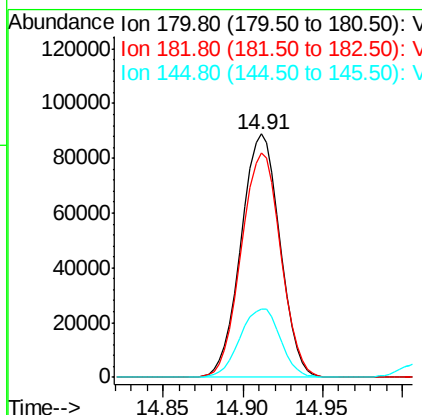
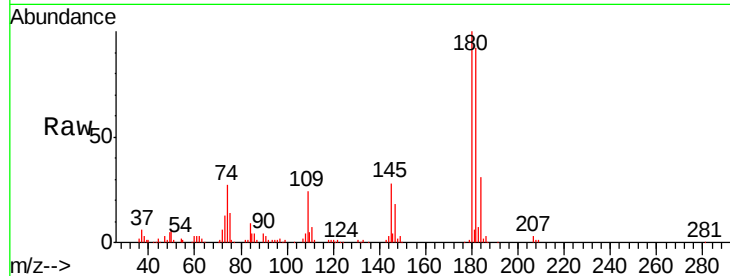
#93
 1,2,4-Trichlorobenzene
 Concen: 16.68 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.5	48.2	144.6
145	29.3	14.1	42.2

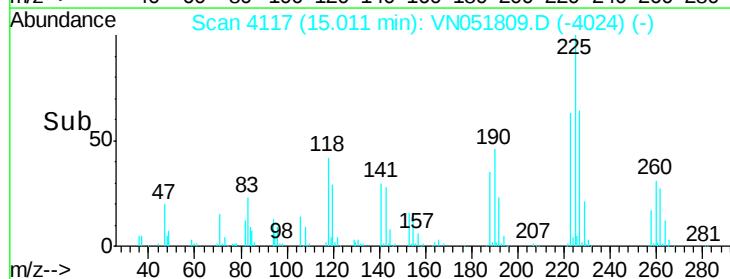
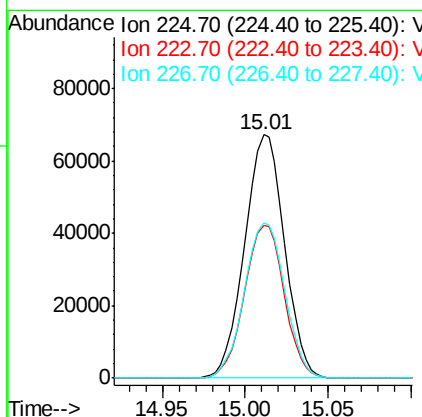
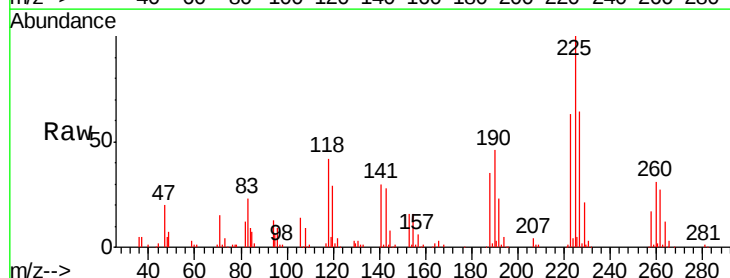
Manual Integrations
 APPROVED

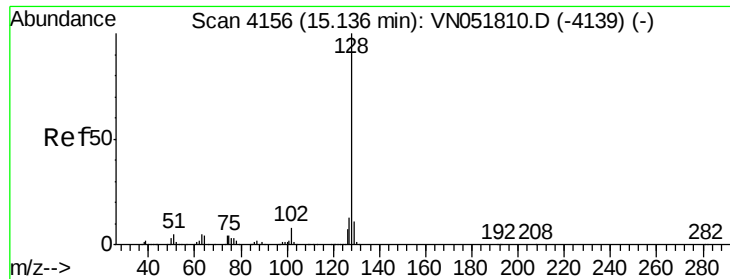
MMDadoda
 10/15/2018 3:00:18 PM



#94
 Hexachlorobutadiene
 Concen: 16.95 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051809.D
 Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.3	93.8
227	64.8	32.0	96.2





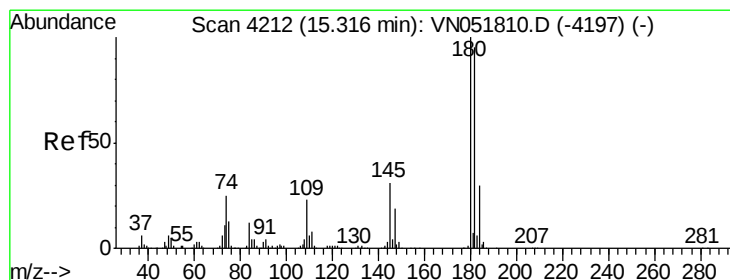
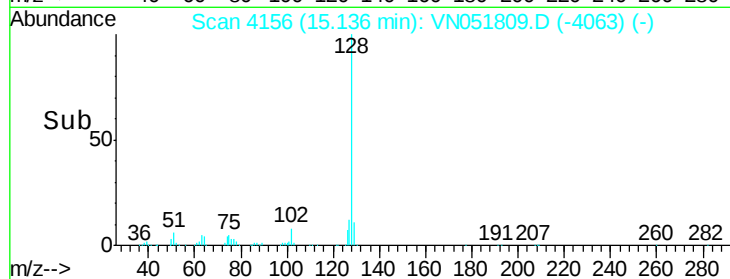
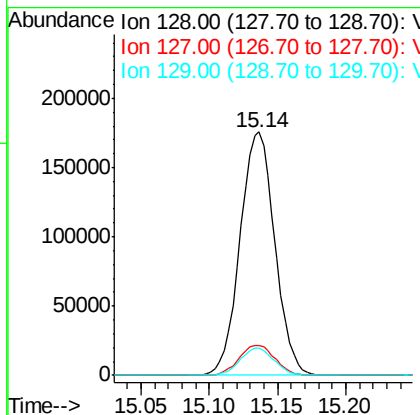
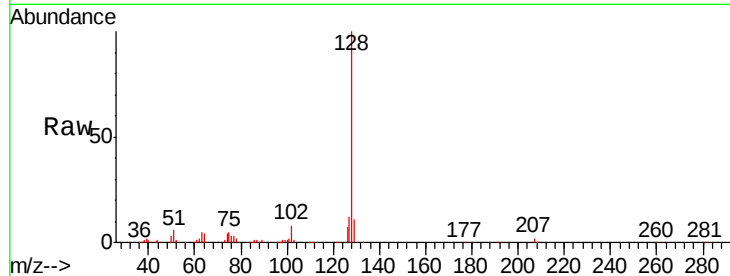
#95
Naphthalene
Concen: 17.78 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:18 PM



#96
1,2,3-Trichlorobenzene
Concen: 18.16 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051809.D
Acq: 11 Oct 2018 11:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	48.0	144.2
145	31.0	15.2	45.6

