

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080818\
 Data File : VN050459.D
 Acq On : 8 Aug 2018 15:14
 Operator : MD\SY
 Sample : VN0808WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0808WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/9/2018 1:32:15 PM

Quant Time: Aug 09 01:06:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	784248	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1164503	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1043781	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	500423	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	476332	45.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.92%	
35) Dibromofluoromethane	7.59	113	437061	46.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.56%	
50) Toluene-d8	10.09	98	1621054	46.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.28%	
62) 4-Bromofluorobenzene	12.40	95	531597	44.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	165338	18.99	ug/l	100
3) Chloromethane	2.06	50	198982	18.42	ug/l	100
4) Vinyl Chloride	2.18	62	216174	19.18	ug/l	98
5) Bromomethane	2.57	94	124047	22.80	ug/l	99
6) Chloroethane	2.70	64	132570	19.09	ug/l	97
7) Trichlorofluoromethane	3.01	101	284813	19.57	ug/l	100
8) Diethyl Ether	3.41	74	102664	19.24	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	175463	19.51	ug/l	100
10) Methyl Iodide	3.95	142	87493	22.08	ug/l	96
11) Tert butyl alcohol	4.79	59	58551	69.56	ug/l #	72
12) 1,1-Dichloroethene	3.74	96	164014	19.34	ug/l	98
13) Acrolein	3.61	56	63136	69.21	ug/l	97
14) Allyl chloride	4.33	41	248800	18.27	ug/l	99
15) Acrylonitrile	4.99	53	281154	79.74	ug/l	100
16) Acetone	3.82	43	253387	80.84	ug/l	99
17) Carbon Disulfide	4.05	76	472255	17.13	ug/l	99
18) Methyl Acetate	4.33	43	140154	17.13	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	457399	19.01	ug/l	100
20) Methylene Chloride	4.55	84	187597	18.66	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	177697	19.37	ug/l	98
22) Diisopropyl ether	5.96	45	547461	19.68	ug/l	99
23) Vinyl Acetate	5.90	43	1791925	90.29	ug/l	99
24) 1,1-Dichloroethane	5.85	63	327514	19.19	ug/l	100
25) 2-Butanone	6.84	43	397310	76.52	ug/l	98
26) 2,2-Dichloropropane	6.83	77	245406	17.44	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	201928	19.86	ug/l	98
28) Bromochloromethane	7.20	49	145690	18.54	ug/l	96
29) Tetrahydrofuran	7.22	42	208274	74.94	ug/l	96
30) Chloroform	7.37	83	333571	19.55	ug/l	100
31) Cyclohexane	7.65	56	287537	18.75	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	289373	19.75	ug/l	99
36) 1,1-Dichloropropene	7.79	75	253225	19.79	ug/l	99
37) Ethyl Acetate	6.93	43	149943	16.27	ug/l	99
38) Carbon Tetrachloride	7.78	117	254635	19.08	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	260455	18.65	ug/l	96
40) Benzene	8.04	78	762684	19.39	ug/l	99
41) Methacrylonitrile	7.17	41	77103	15.74	ug/l	86
42) 1,2-Dichloroethane	8.13	62	233969	18.74	ug/l	99
43) Isopropyl Acetate	8.17	43	265940	16.72	ug/l	96
44) Trichloroethene	8.84	130	209548	19.83	ug/l	98
45) 1,2-Dichloropropane	9.12	63	196045	18.96	ug/l	99
46) Dibromomethane	9.21	93	117584	18.41	ug/l	97
47) Bromodichloromethane	9.40	83	249618	18.87	ug/l	99
48) Methyl methacrylate	9.20	41	131942	16.55	ug/l	98
49) 1,4-Dioxane	9.20	88	35337	287.56	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	907298	79.20	ug/l	98
52) Toluene	10.16	92	467475	19.78	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	240319	18.09	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	283273	19.11	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	168509	18.27	ug/l	98
56) Ethyl methacrylate	10.43	69	206312	16.97	ug/l	97
57) 1,3-Dichloropropane	10.71	76	281782	18.61	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	459969	80.75	ug/l	98
59) 2-Hexanone	10.75	43	584813	73.15	ug/l	98
60) Dibromochloromethane	10.90	129	184324	18.14	ug/l	99
61) 1,2-Dibromoethane	11.01	107	162392	17.86	ug/l	97
64) Tetrachloroethene	10.63	164	204881	21.01	ug/l	99
65) Chlorobenzene	11.44	112	510603	19.51	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	186998	19.63	ug/l	99
67) Ethyl Benzene	11.51	91	856979	20.26	ug/l	100
68) m/p-Xylenes	11.62	106	658511	40.89	ug/l	100
69) o-Xylene	11.95	106	318200	20.51	ug/l	98
70) Styrene	11.96	104	503335	19.95	ug/l	100
71) Bromoform	12.13	173	122253	17.56	ug/l #	100
73) Isopropylbenzene	12.25	105	833576	22.19	ug/l	99
74) N-amyl acetate	12.07	43	213376	17.52	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	199631	18.42	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	162766m	17.97	ug/l	
77) Bromobenzene	12.53	156	213599	21.22	ug/l	97
78) n-propylbenzene	12.59	91	910732	21.42	ug/l	100
79) 2-Chlorotoluene	12.68	91	563461	21.46	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	673018	22.07	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	44901	17.42	ug/l	99
82) 4-Chlorotoluene	12.77	91	562882	21.49	ug/l	98
83) tert-Butylbenzene	12.99	119	584555	21.97	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	680971	22.04	ug/l	100
85) sec-Butylbenzene	13.17	105	748713	21.12	ug/l	100
86) p-Isopropyltoluene	13.29	119	639187	21.04	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	363936	20.30	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	357056	19.95	ug/l	99
89) n-Butylbenzene	13.62	91	495297	19.15	ug/l	99
90) Hexachloroethane	13.88	117	101088	18.71	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	357189	19.88	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28530	15.50	ug/l	94

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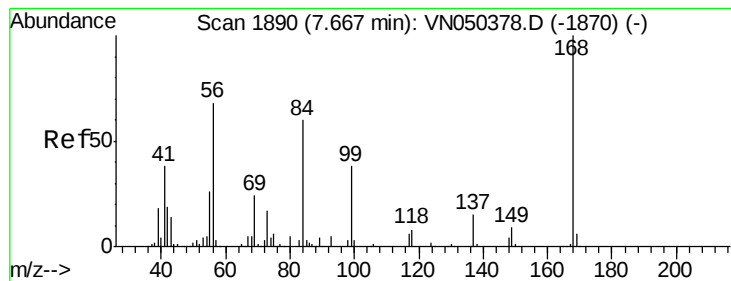
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	169851	18.56	ug/l	99
94) Hexachlorobutadiene	15.01	225	108876	20.82	ug/l	98
95) Naphthalene	15.14	128	361612	17.46	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	165914	17.93	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion:168 Resp: 784248

Ion Ratio Lower Upper

168 100

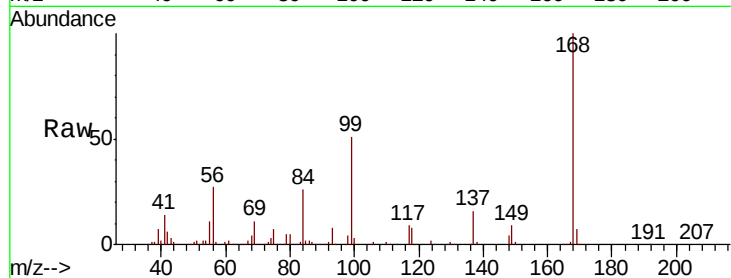
99 50.6 40.0 60.0

Manual Integrations

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8/9/2018 1:32:15 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

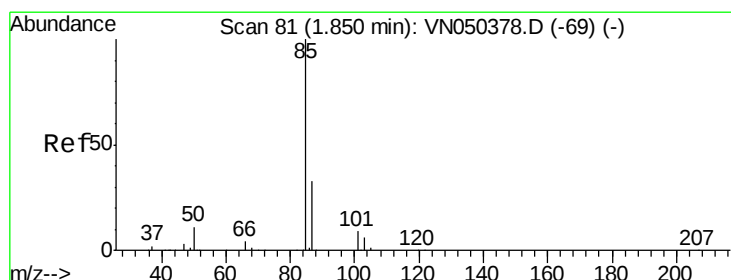
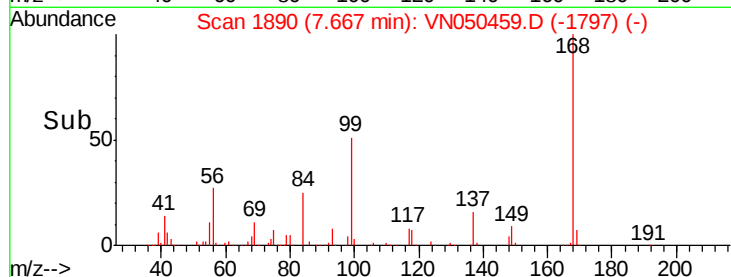
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.99 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN050459.D

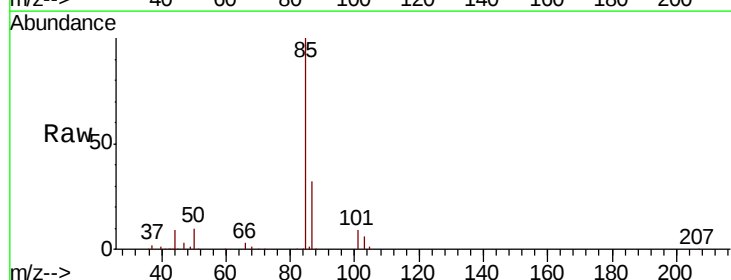
Acq: 8 Aug 2018 15:14

Tgt Ion: 85 Resp: 165338

Ion Ratio Lower Upper

85 100

87 32.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

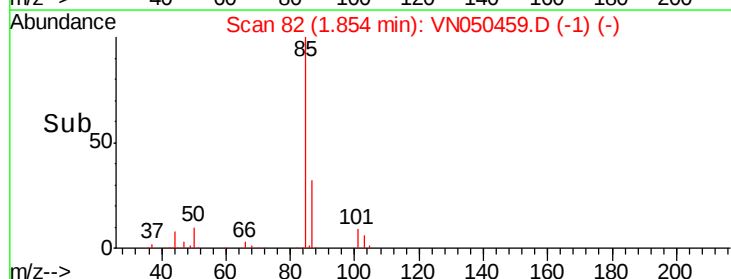
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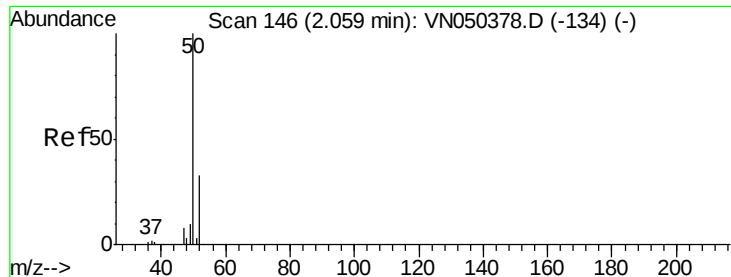
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0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.42 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 50 Resp: 198982

Ion Ratio Lower Upper

50 100

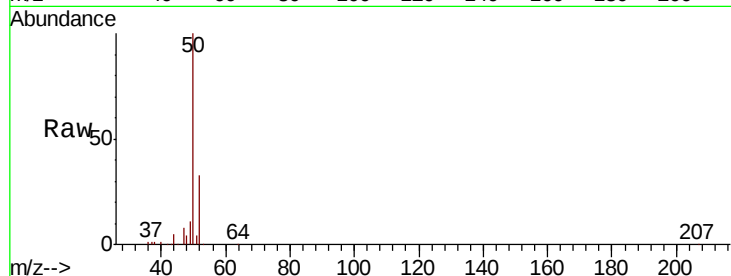
52 32.6 25.9 38.9

Manual Integrations

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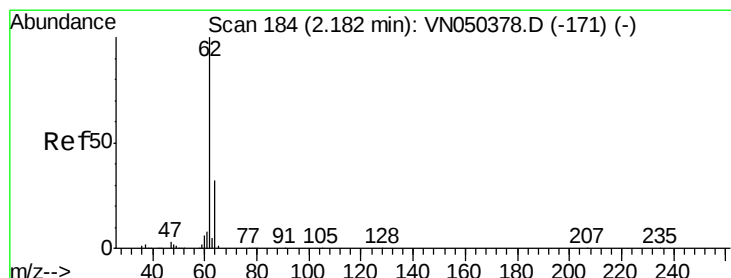
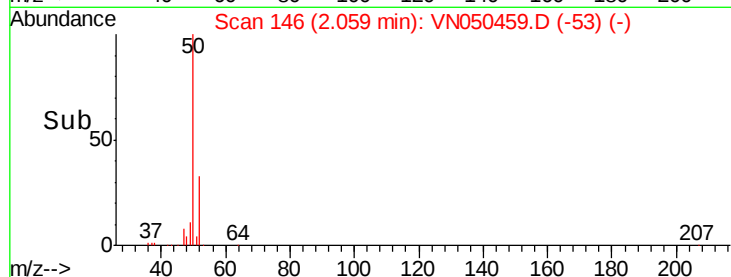
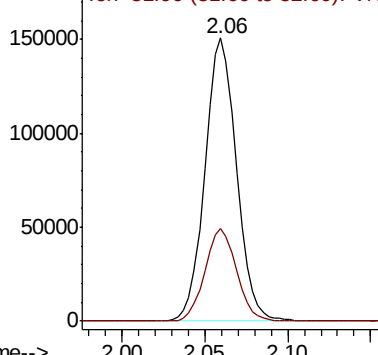
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 19.18 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN050459.D

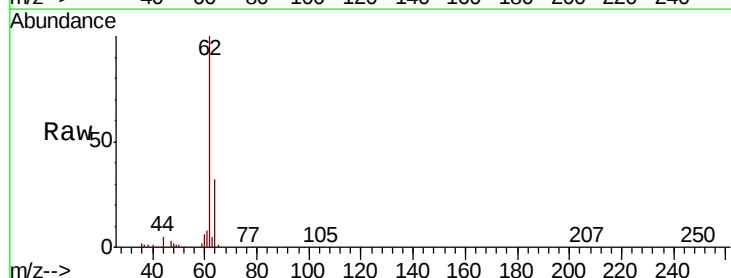
Acq: 8 Aug 2018 15:14

Tgt Ion: 62 Resp: 216174

Ion Ratio Lower Upper

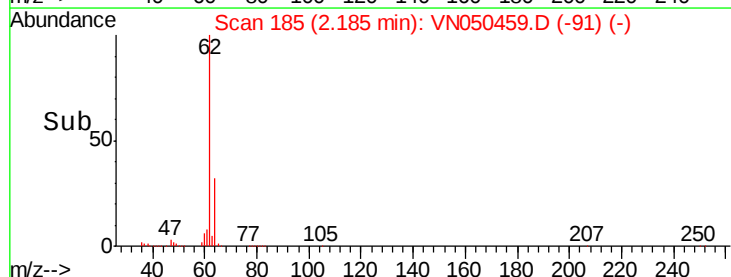
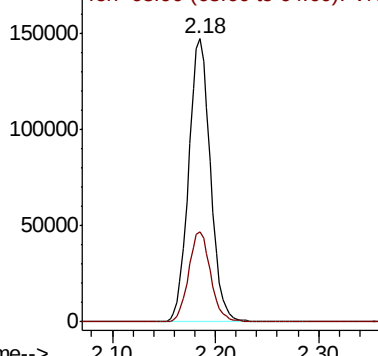
62 100

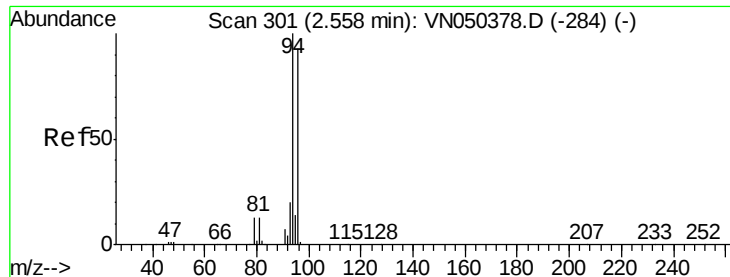
64 31.9 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 22.80 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 94 Resp: 124047

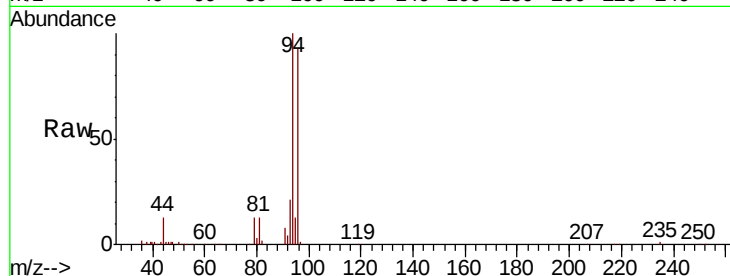
Ion Ratio Lower Upper

94 100

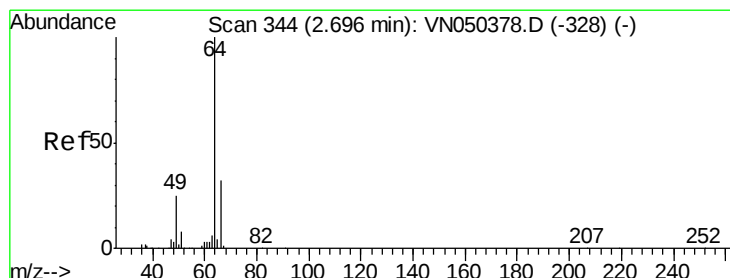
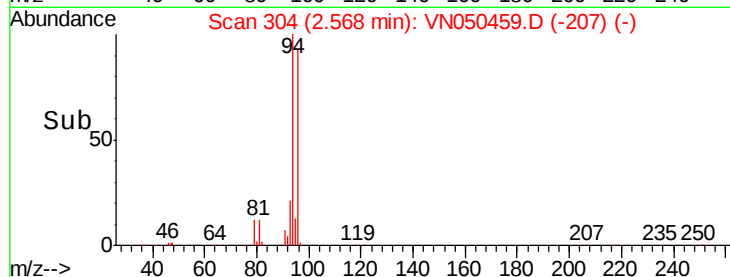
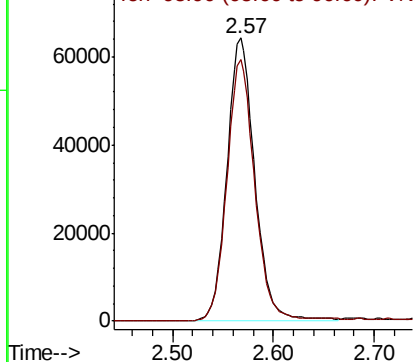
96 92.3 74.6 112.0

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Abundance Ion 93.90 (93.60 to 94.60): VNC
Ion 95.90 (95.60 to 96.60): VNC



#6

Chloroethane

Concen: 19.09 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VN050459.D

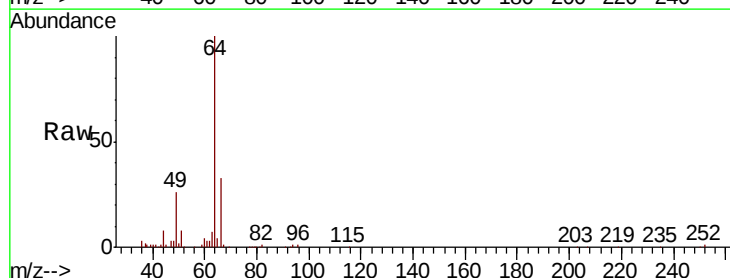
Acq: 8 Aug 2018 15:14

Tgt Ion: 64 Resp: 132570

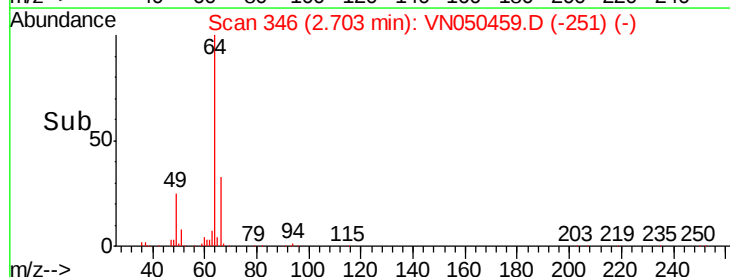
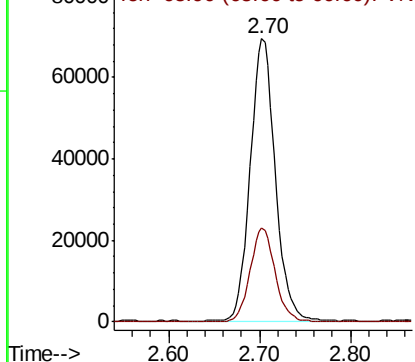
Ion Ratio Lower Upper

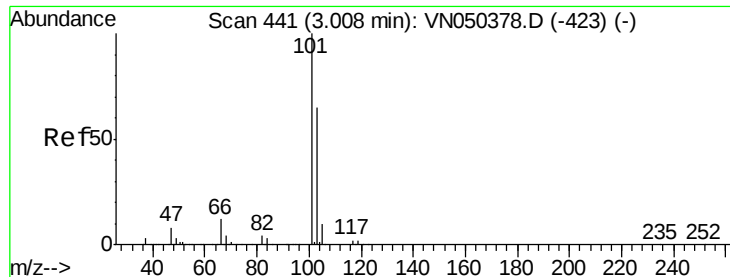
64 100

66 33.1 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VNC
Ion 65.90 (65.60 to 66.60): VNC





#7

Trichlorofluoromethane

Concen: 19.57 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.01 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion:101 Resp: 284813

Ion Ratio Lower Upper

101 100

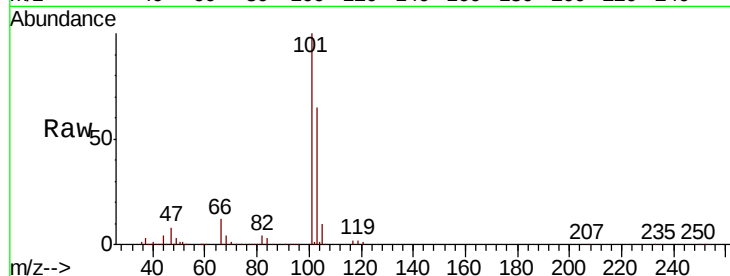
103 64.5 51.7 77.5

Manual Integrations

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MMDadoda

8/9/2018 1:32:15 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

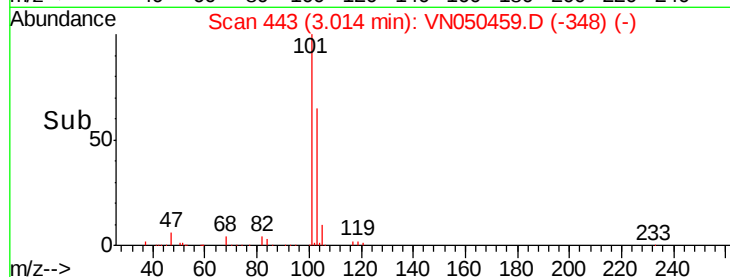
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100000

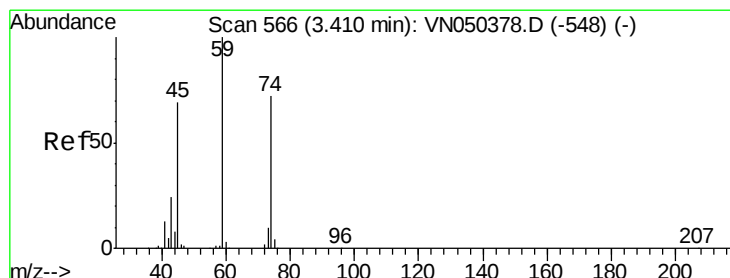
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Time-->



Time-->



#8

Diethyl Ether

Concen: 19.24 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN050459.D

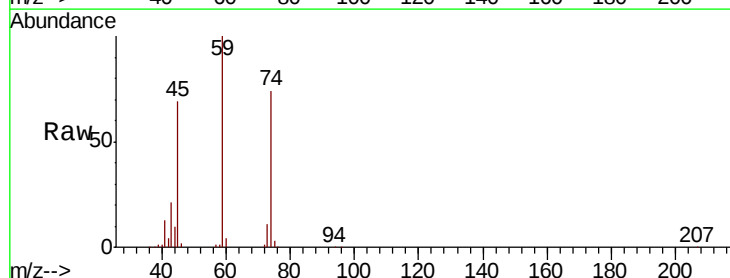
Acq: 8 Aug 2018 15:14

Tgt Ion: 74 Resp: 102664

Ion Ratio Lower Upper

74 100

45 92.9 47.6 142.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

50000

40000

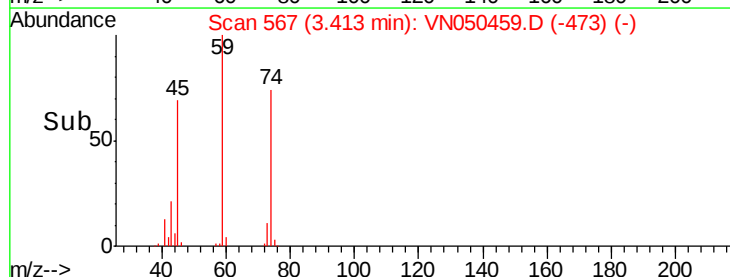
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20000

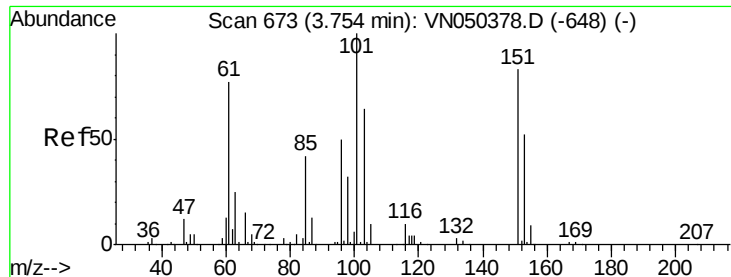
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0

Time-->



Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.51 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.01 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

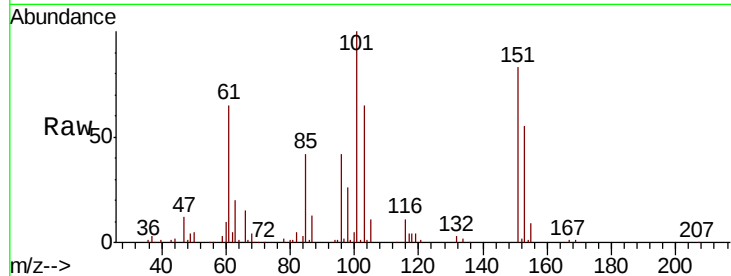
ClientSampleId :

VN0808WBSD01

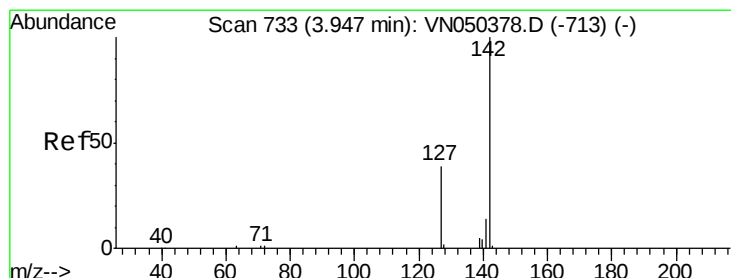
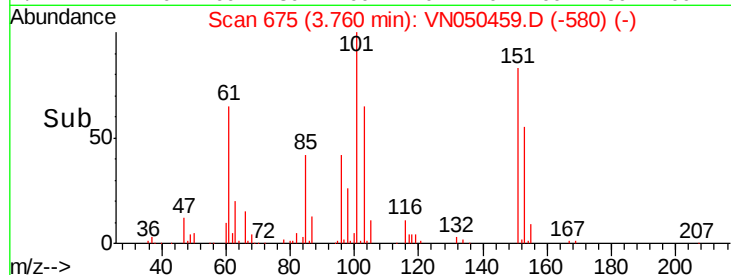
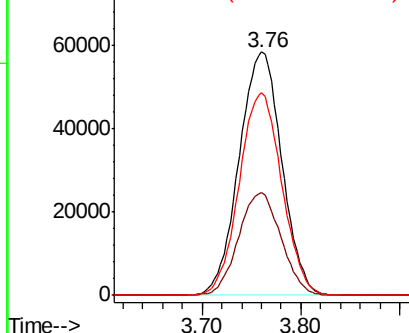
Tot Ion:	101	Resp:	175463
Ion Ratio	Lower	Upper	
101	100		
85	42.0	34.2	51.2
151	83.0	66.3	99.5

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VN
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 22.08 ug/l

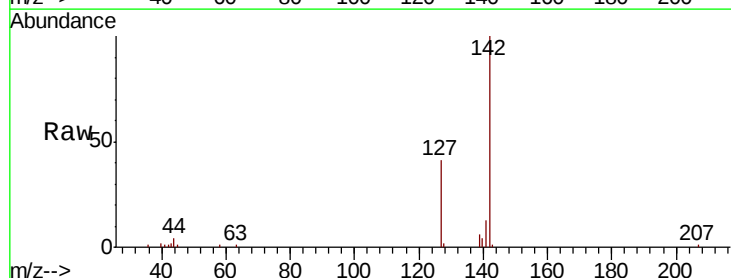
RT: 3.95 min Scan# 735

Delta R.T. 0.01 min

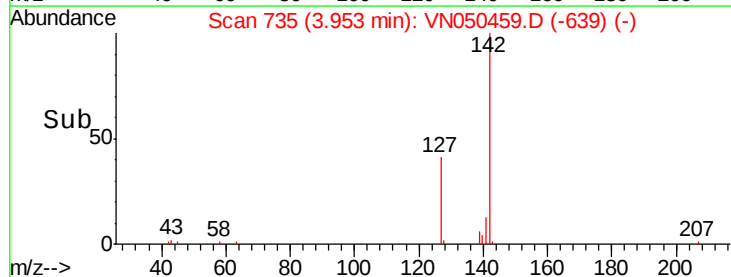
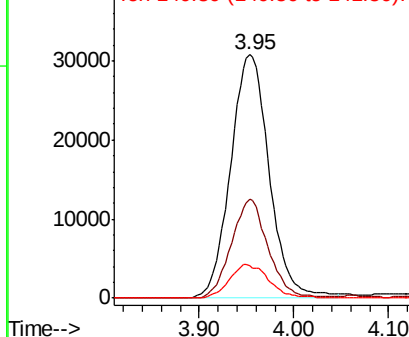
Lab File: VN050459.D

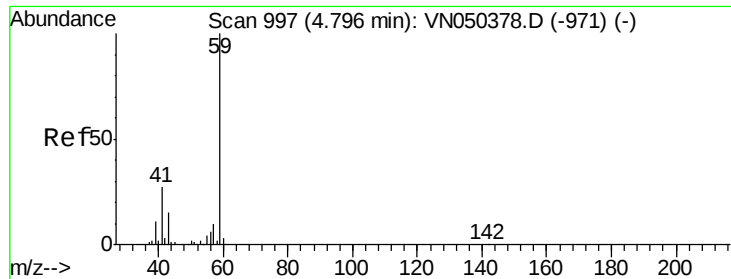
Acq: 8 Aug 2018 15:14

Tgt Ion:	142	Resp:	87493
Ion Ratio	Lower	Upper	
142	100		
127	38.5	33.4	50.2
141	13.9	11.6	17.4



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

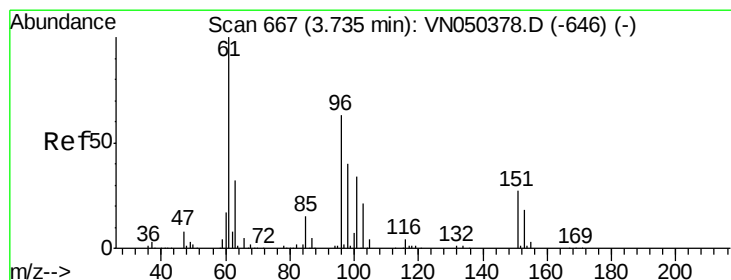
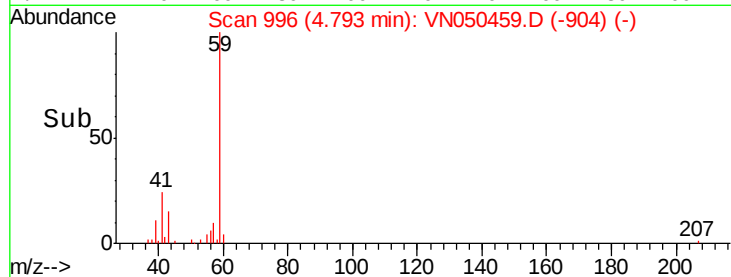
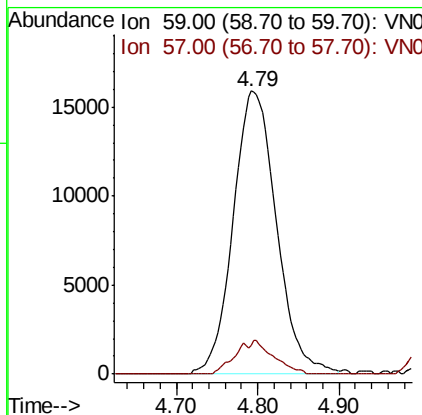
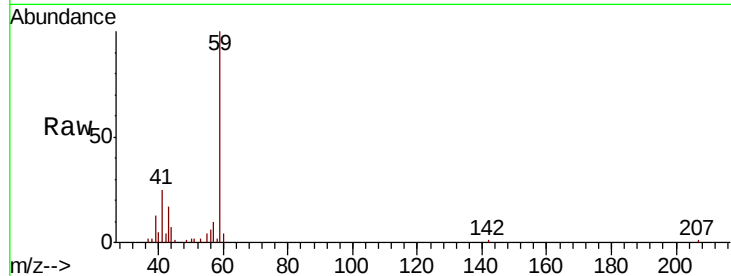
Tert butyl alcohol
 Concen: 69.56 ug/l
 RT: 4.79 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.5	12.7#

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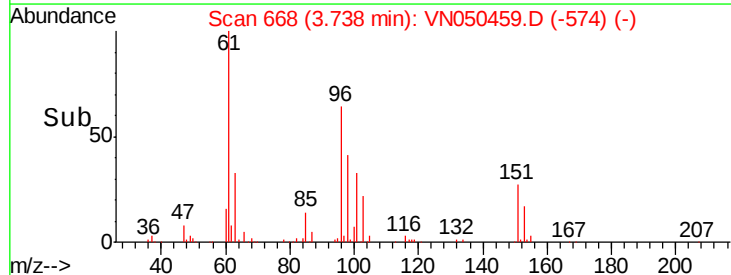
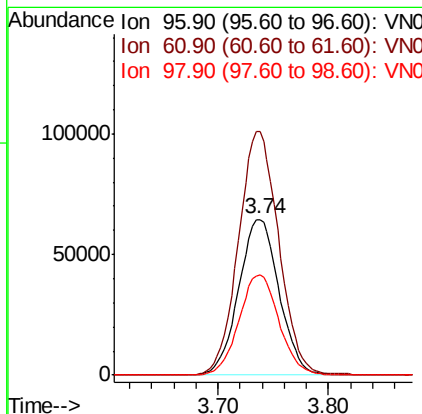
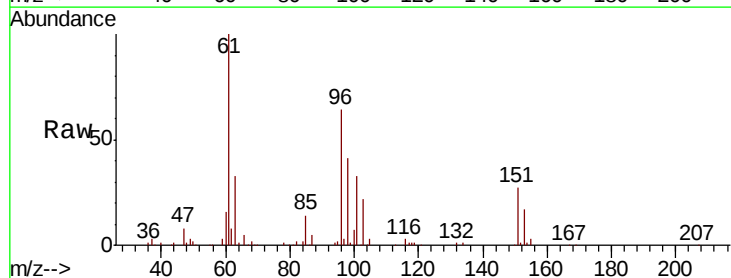
MMDadoda
 8/9/2018 1:32:15 PM

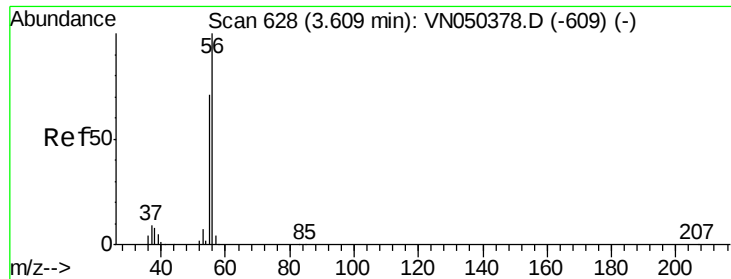


#12

1,1-Dichloroethene
 Concen: 19.34 ug/l
 RT: 3.74 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.2	124.4	186.6
98	64.1	48.3	72.5





#13

Acrolein

Concen: 69.21 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 56 Resp: 63136

Ion Ratio Lower Upper

56 100

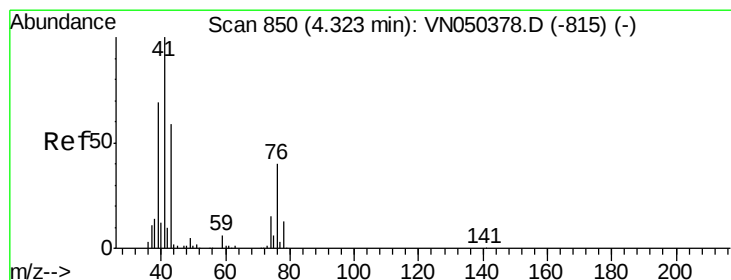
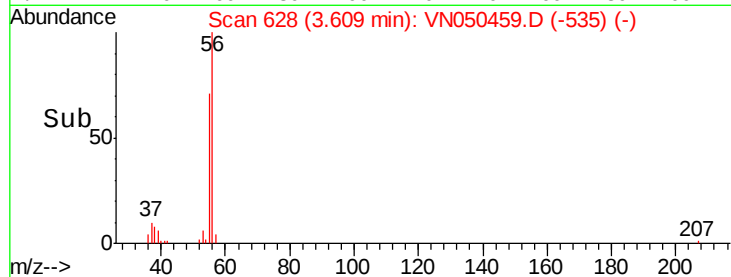
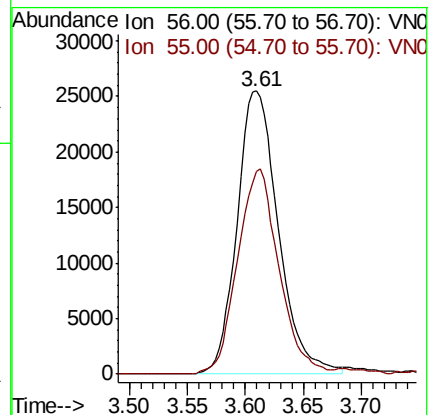
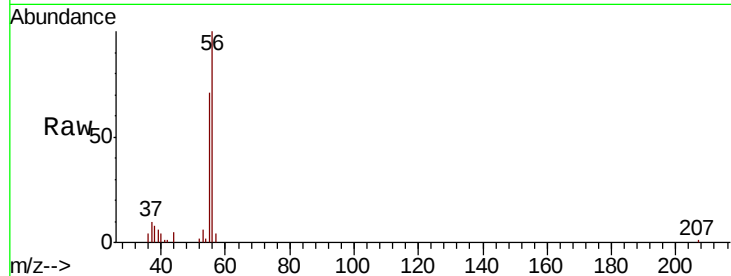
55 72.4 55.8 83.6

Manual Integrations

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#14

Allyl chloride

Concen: 18.27 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

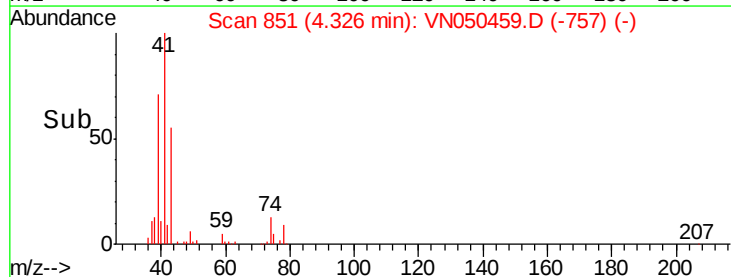
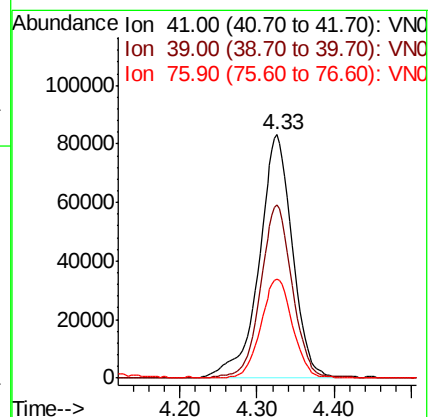
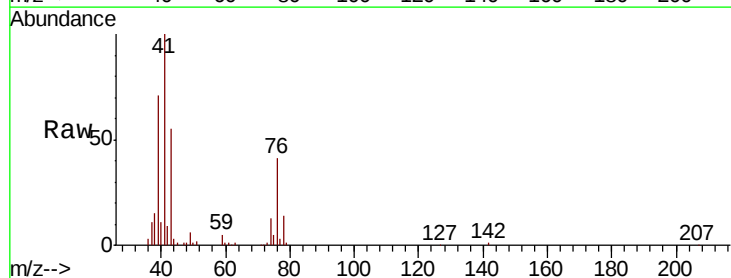
Tgt Ion: 41 Resp: 248800

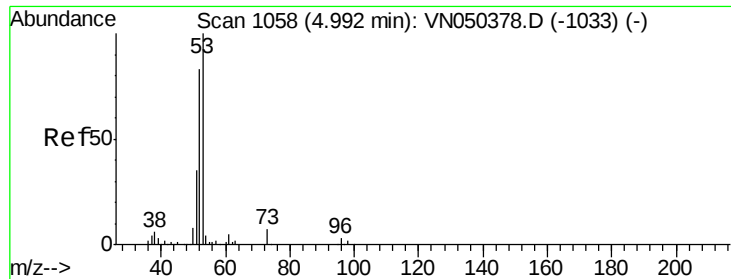
Ion Ratio Lower Upper

41 100

39 67.4 54.2 81.4

76 38.2 29.0 43.6





#15

Acrylonitrile

Concen: 79.74 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

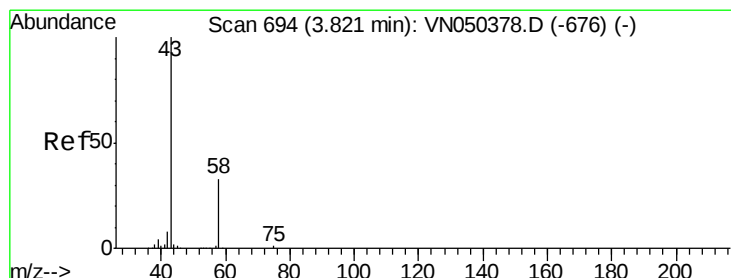
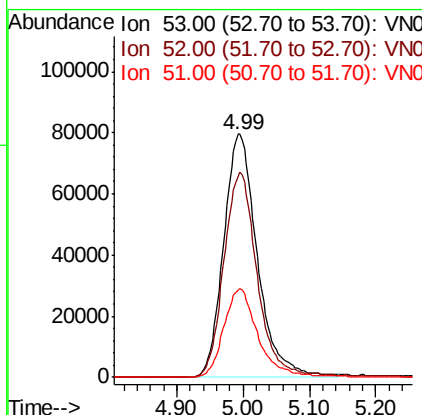
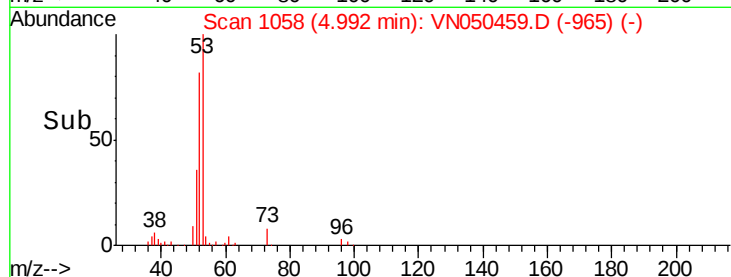
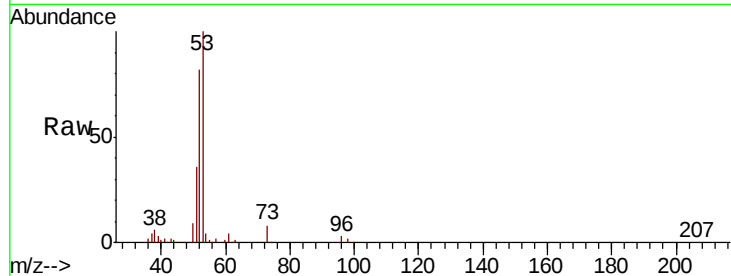
ClientSampleId :

VN0808WBSD01

Tot Ion:	53	Resp:	281154
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.2	99.2
51	36.9	29.3	43.9

Manual Integrations
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#16

Acetone

Concen: 80.84 ug/l

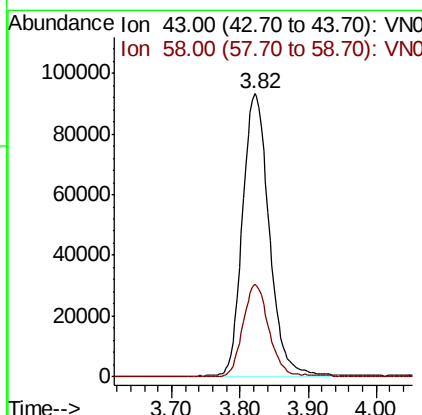
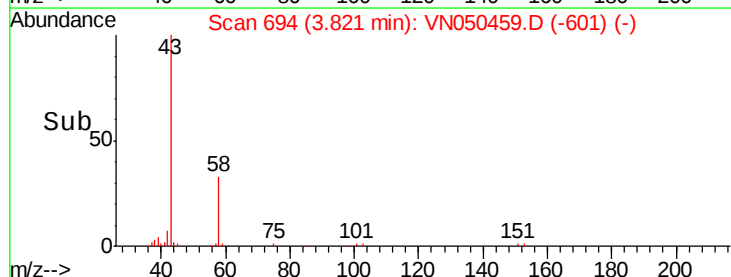
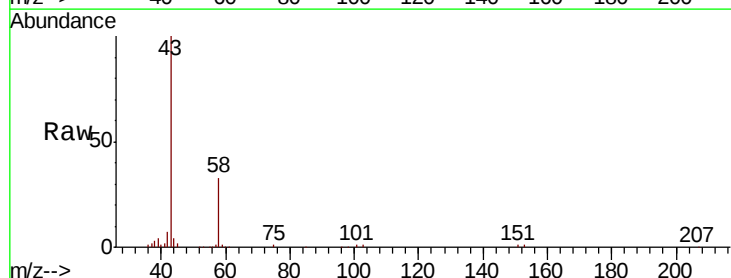
RT: 3.82 min Scan# 694

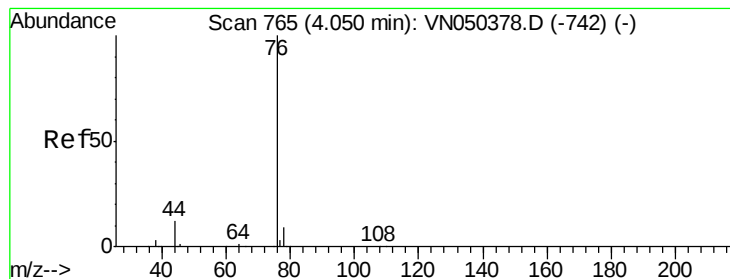
Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Tgt Ion:	43	Resp:	253387
Ion	Ratio	Lower	Upper
43	100		
58	32.6	25.8	38.8





#17

Carbon Disulfide

Concen: 17.13 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 76 Resp: 472255

Ion Ratio Lower Upper

76 100

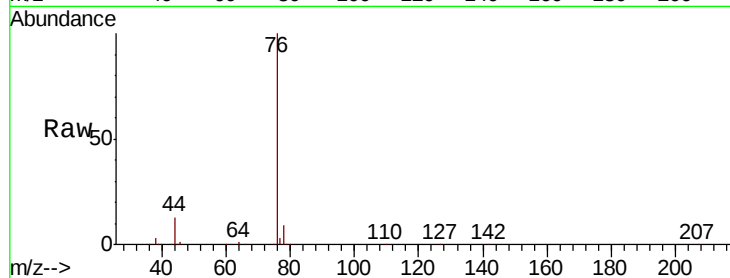
78 8.9 7.3 10.9

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN050378.D (-742) (-)

Ion 77.90 (77.60 to 78.60): VN050378.D (-742) (-)

4.05

200000

150000

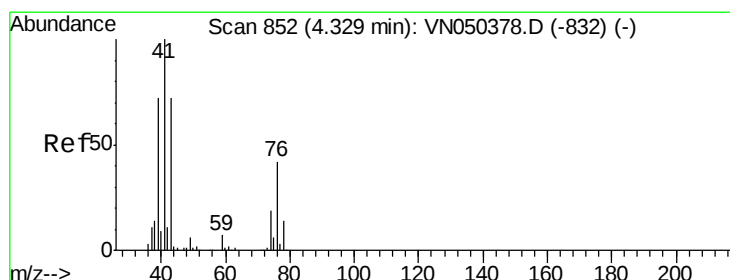
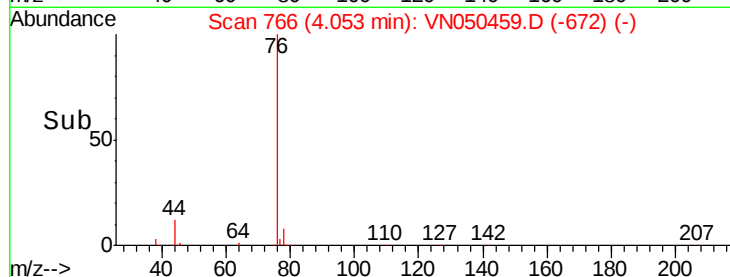
100000

50000

0

4.00 4.10

Time-->



#18

Methyl Acetate

Concen: 17.13 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050459.D

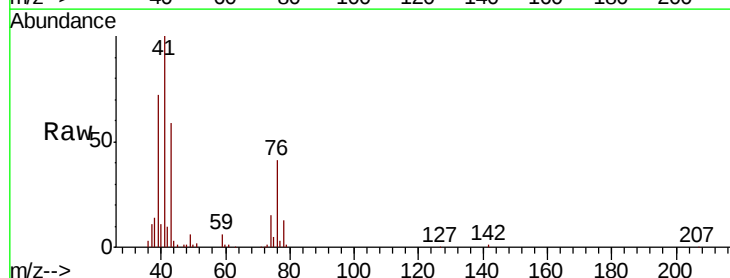
Acq: 8 Aug 2018 15:14

Tgt Ion: 43 Resp: 140154

Ion Ratio Lower Upper

43 100

74 24.8 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-832) (-)

Ion 74.00 (73.70 to 74.70): VN050378.D (-832) (-)

4.33

50000

40000

30000

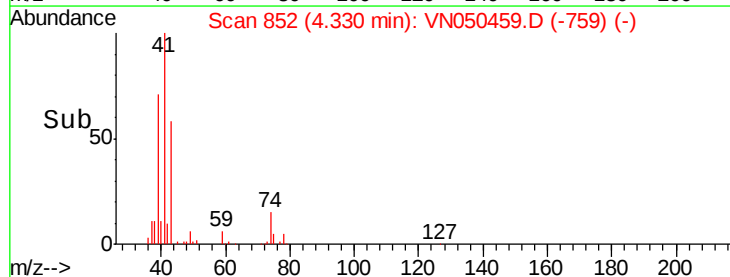
20000

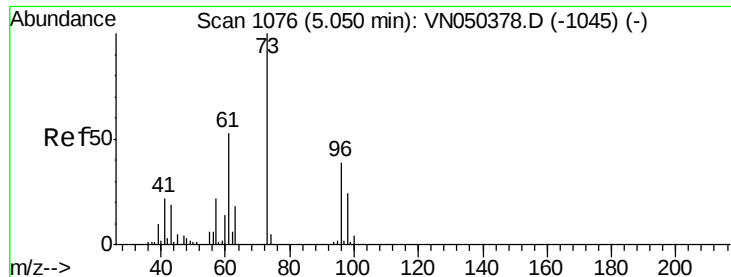
10000

0

4.20 4.30 4.40 4.50

Time-->





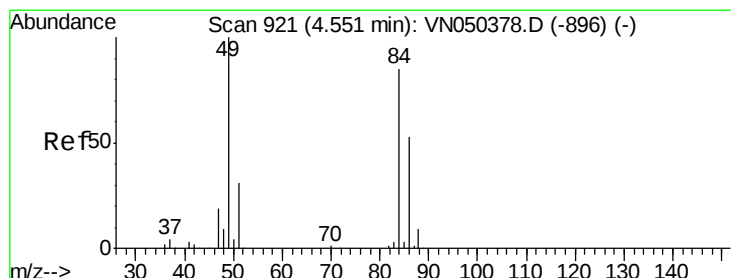
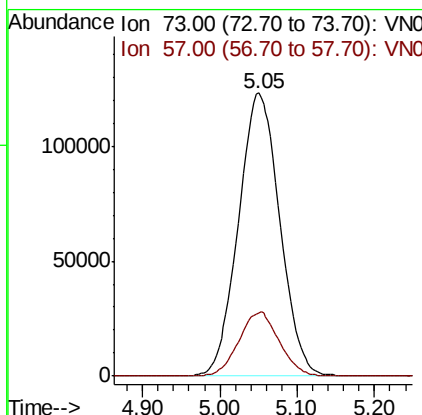
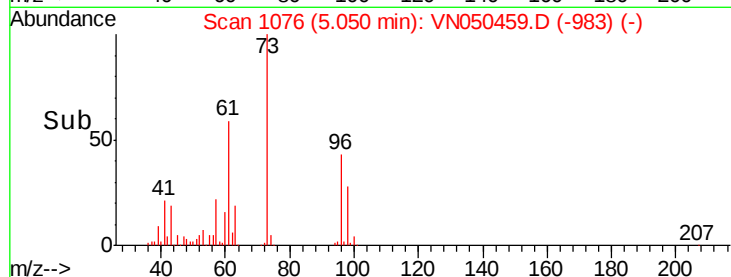
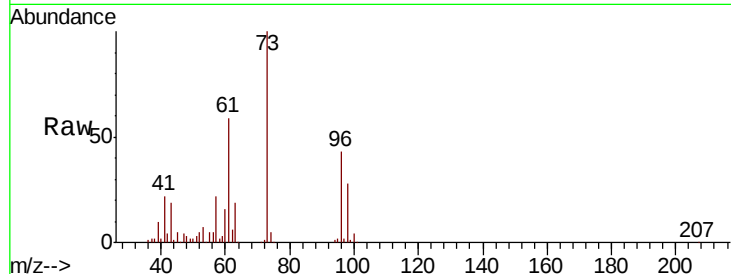
#19
Methyl tert-butyl Ether
Concen: 19.01 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion: 73 Resp: 457399
Ion Ratio Lower Upper
73 100
57 22.4 18.0 27.0

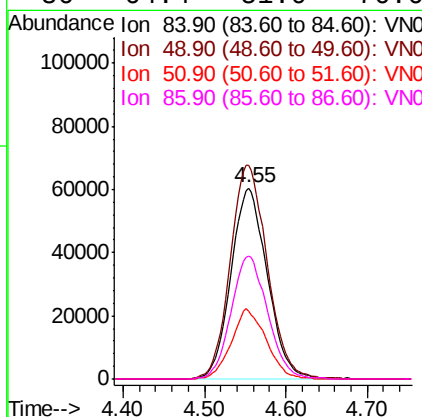
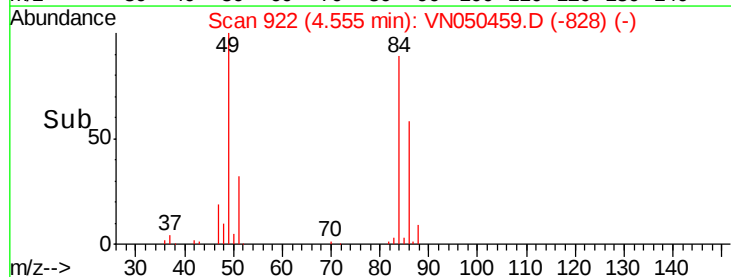
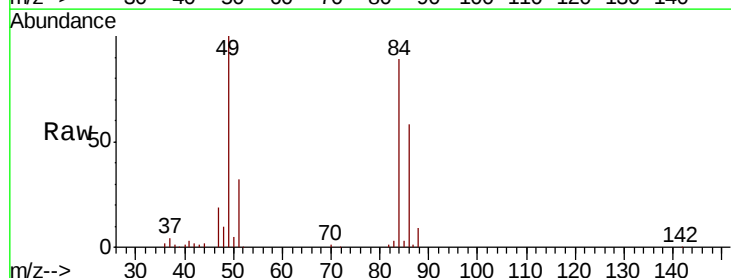
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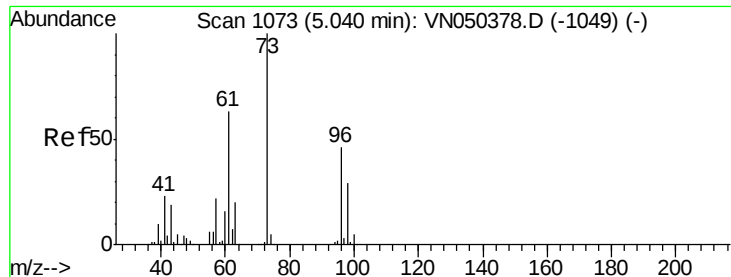
MMDadoda
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#20
Methylene Chloride
Concen: 18.66 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion: 84 Resp: 187597
Ion Ratio Lower Upper
84 100
49 111.9 94.8 142.2
51 35.6 28.3 42.5
86 64.4 51.0 76.6





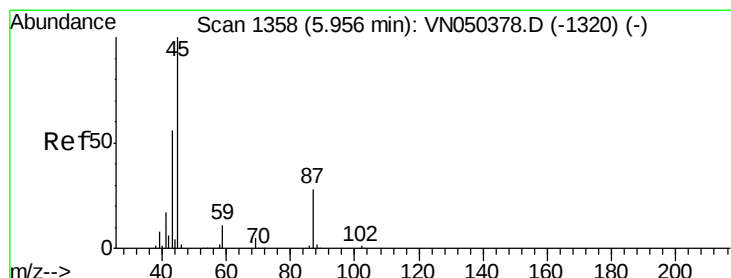
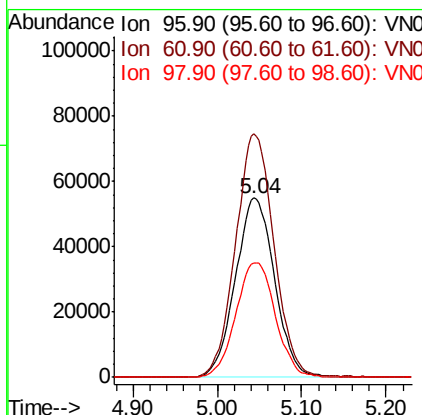
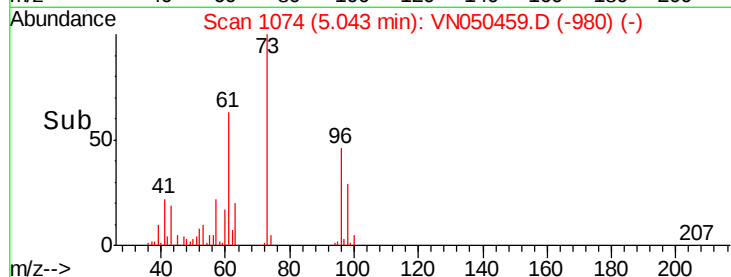
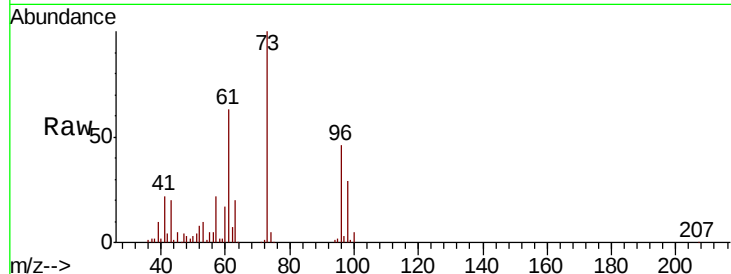
#21
trans-1,2-Dichloroethene
Concen: 19.37 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.9	110.7	166.1
98	63.6	51.6	77.4

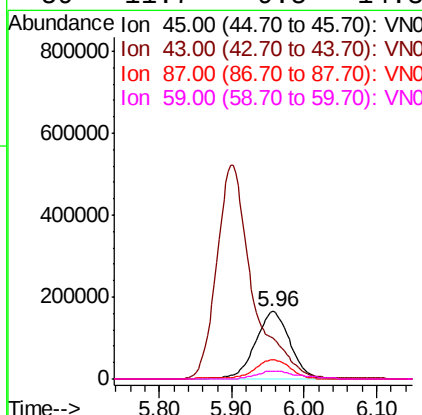
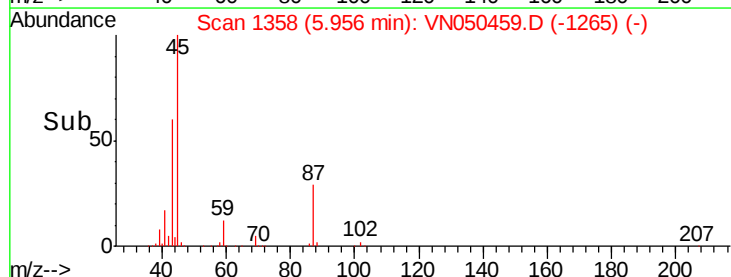
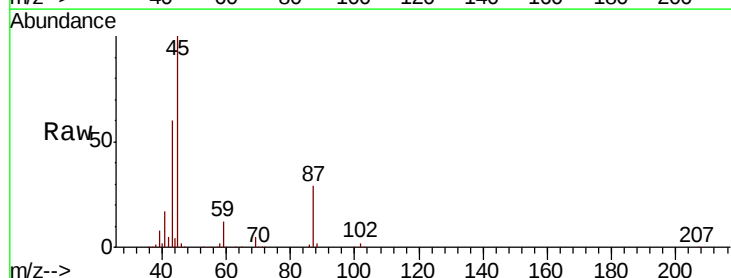
Manual Integrations
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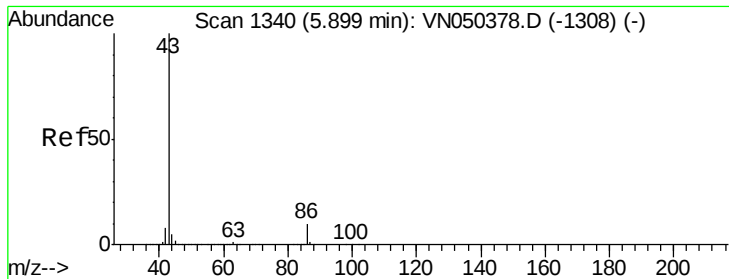
MMDadoda
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#22
Diisopropyl ether
Concen: 19.68 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.2	45.7	68.5
87	28.6	22.7	34.1
59	11.7	9.5	14.3





#23

Vinyl Acetate

Concen: 90.29 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 43 Resp: 1791925

Ion Ratio Lower Upper

43 100

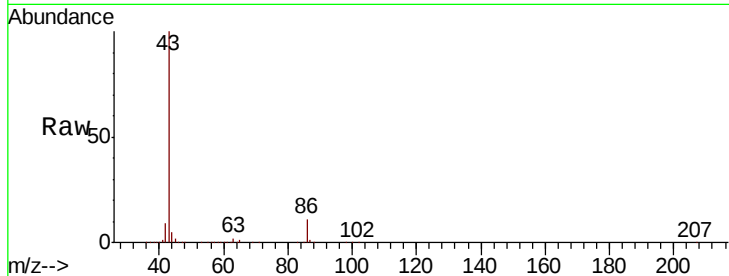
86 11.3 8.6 13.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

600000

500000

400000

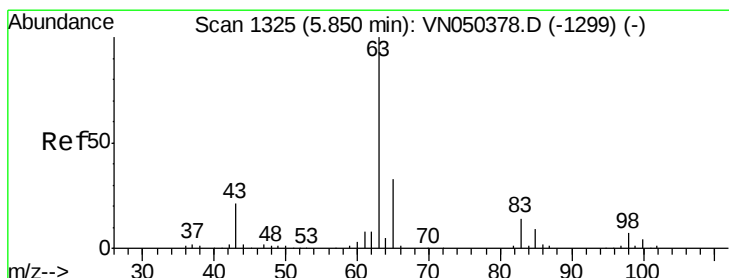
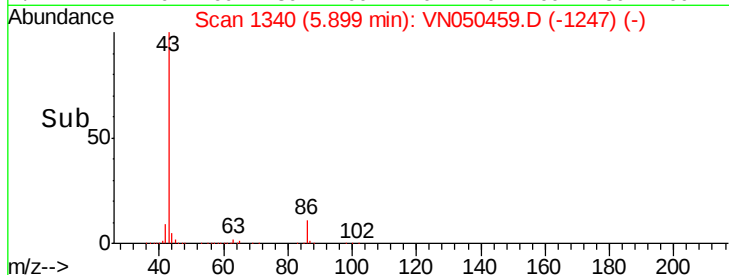
300000

200000

100000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 19.19 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

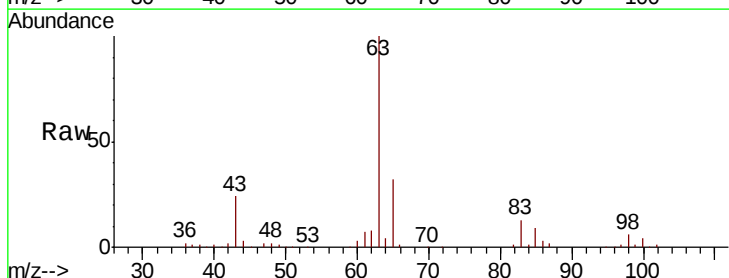
Tgt Ion: 63 Resp: 327514

Ion Ratio Lower Upper

63 100

98 6.4 3.3 9.8

100 4.2 2.1 6.3



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

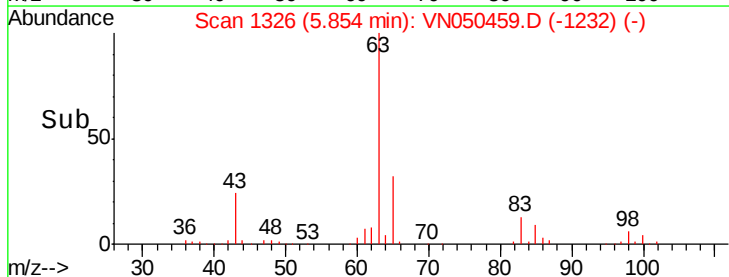
5.85

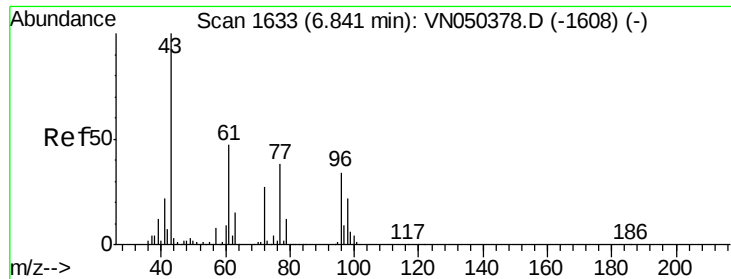
100000

50000

0

Time--> 5.70 5.80 5.90 6.00





#25

2-Butanone

Concen: 76.52 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 43 Resp: 397310

Ion Ratio Lower Upper

43 100

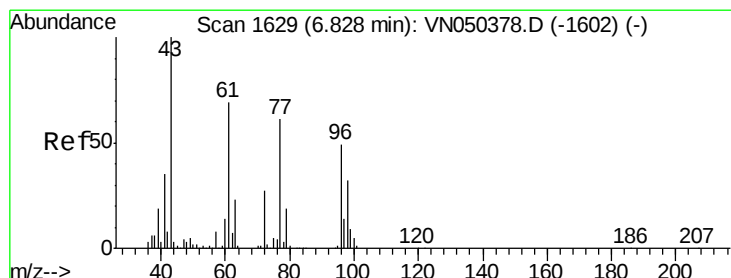
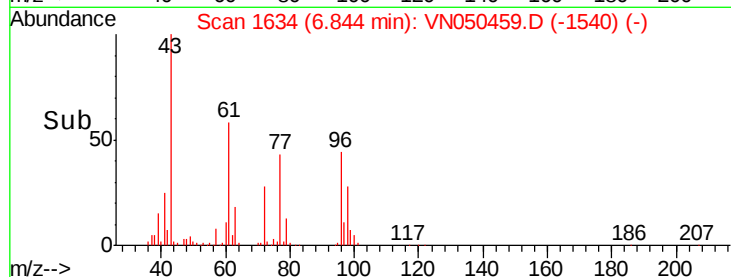
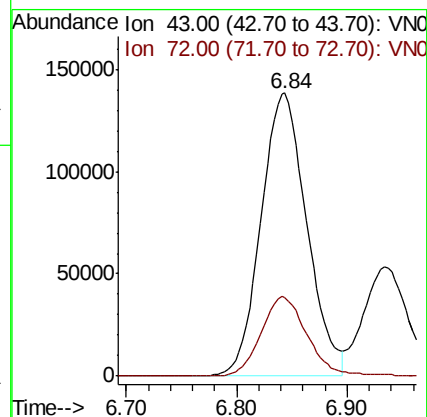
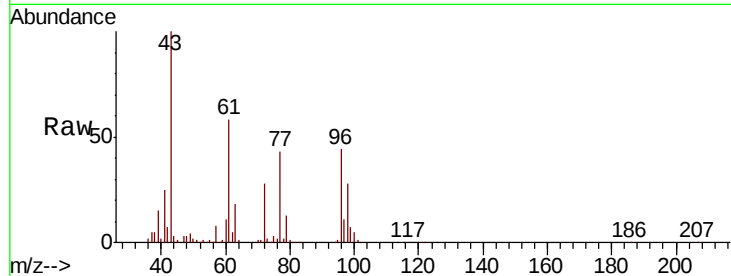
72 27.8 21.5 32.3

Manual Integrations

APPROVED

MMDadoda

8/9/2018 1:32:15 PM



#26

2,2-Dichloropropane

Concen: 17.44 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050459.D

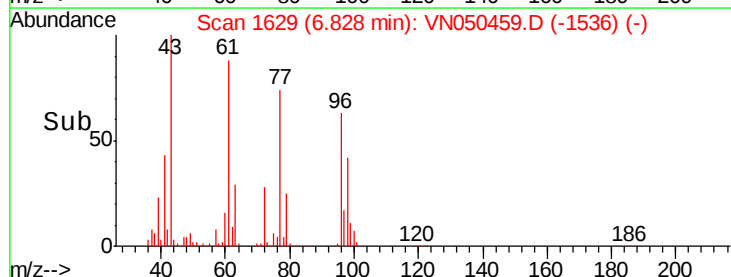
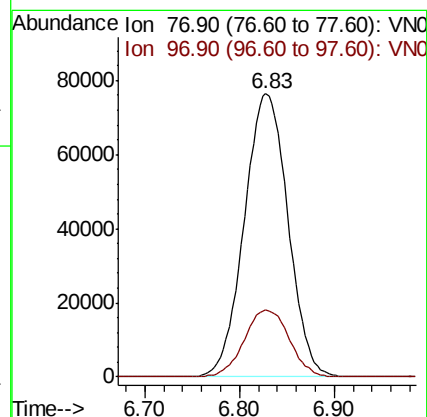
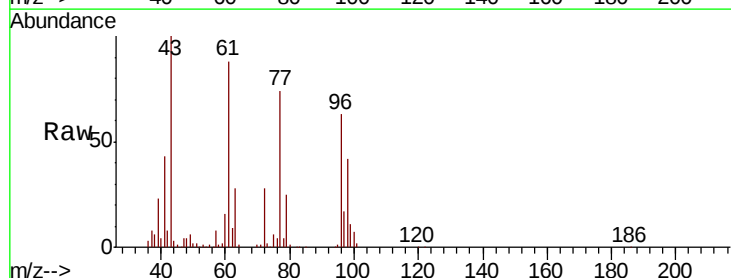
Acq: 8 Aug 2018 15:14

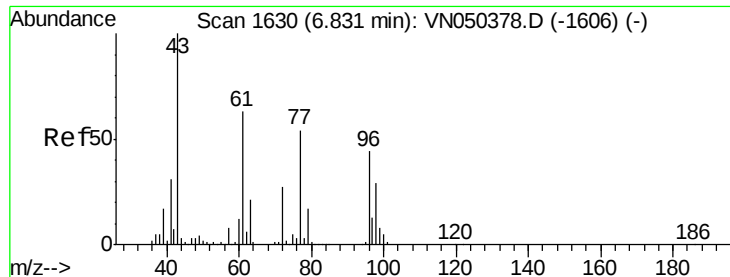
Tgt Ion: 77 Resp: 245406

Ion Ratio Lower Upper

77 100

97 24.4 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 19.86 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

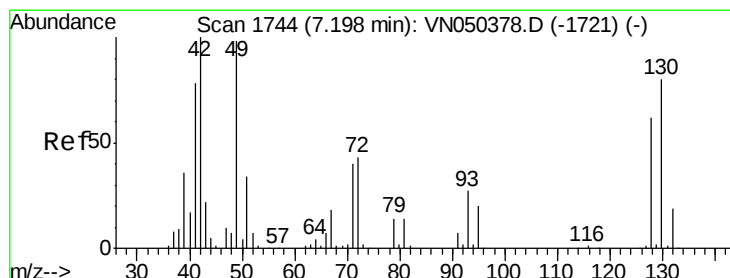
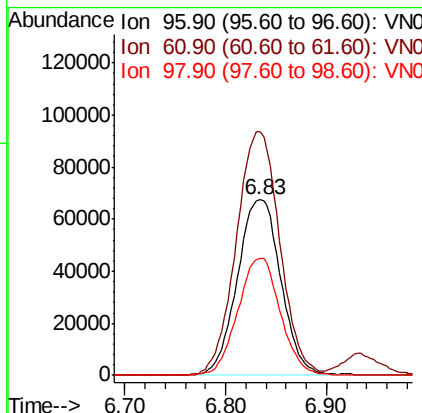
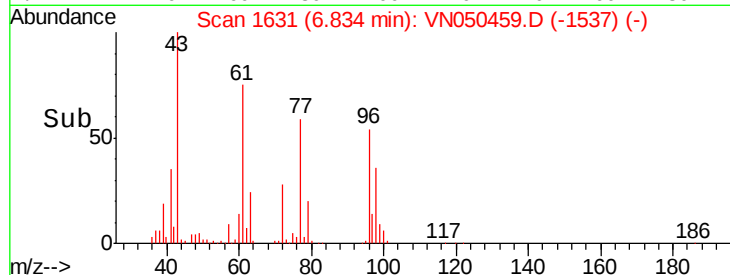
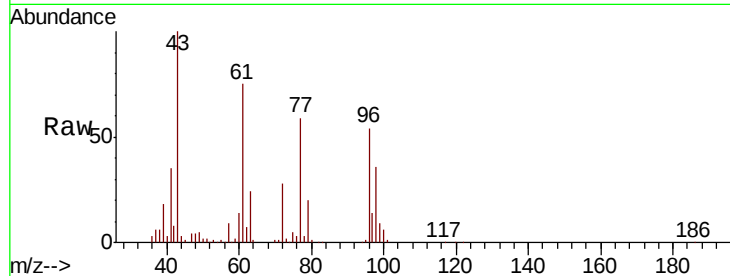
ClientSampleId :

VN0808WBSD01

Tot Ion:	96	Resp:	201928
Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	285.0
98	65.1	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 18.54 ug/l

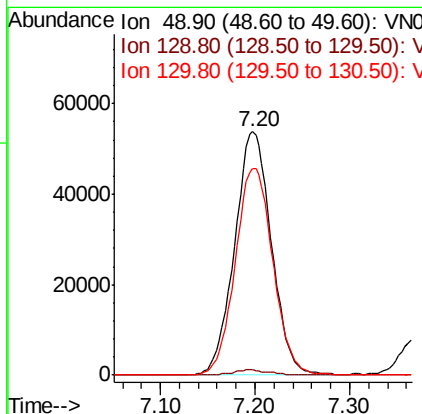
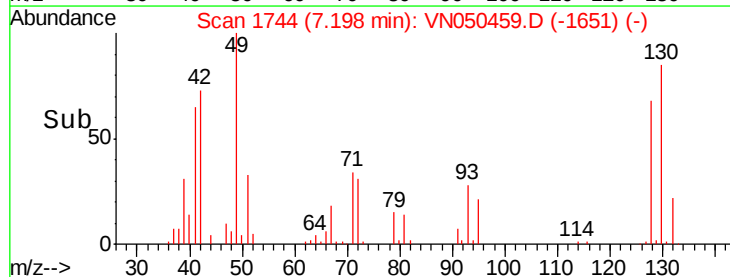
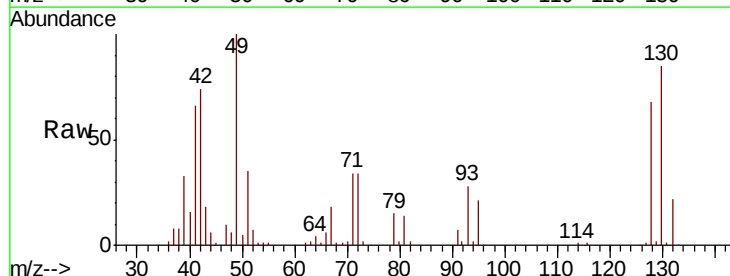
RT: 7.20 min Scan# 1744

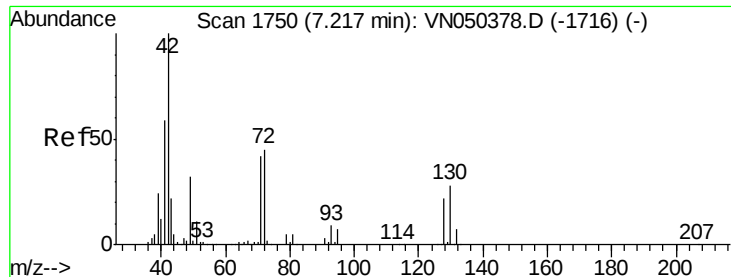
Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Tgt Ion:	49	Resp:	145690
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.0
130	86.8	66.3	99.5





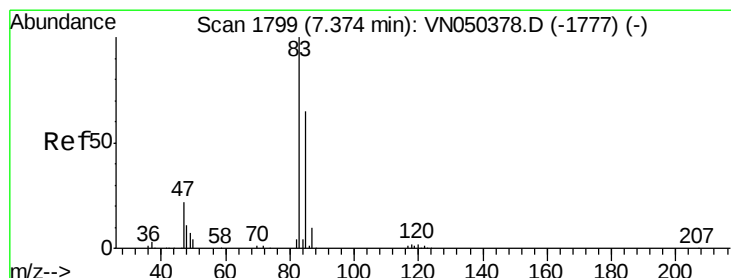
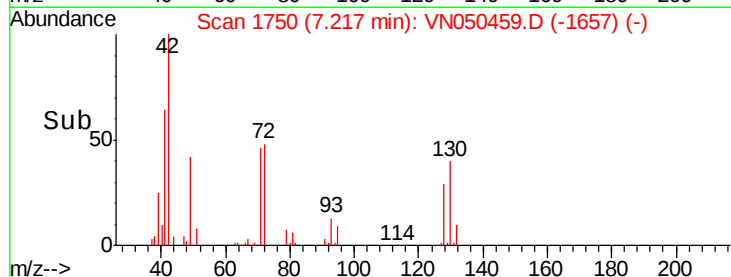
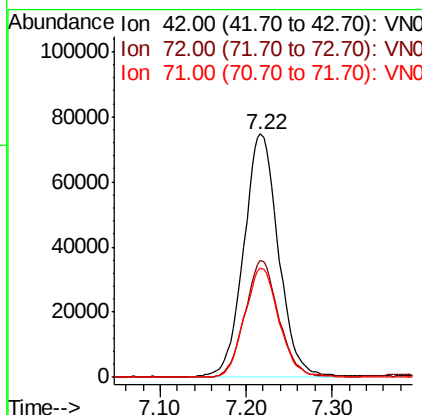
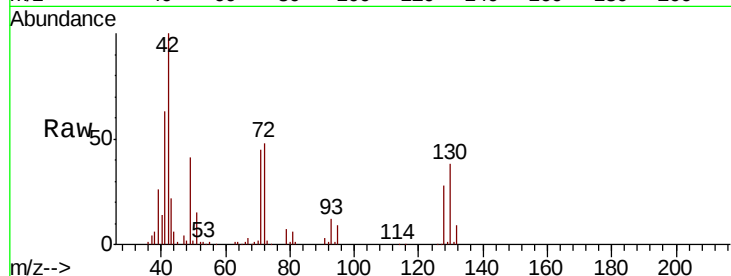
#29
Tetrahydrofuran
Concen: 74.94 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.5	35.9	53.9
71	45.1	33.7	50.5

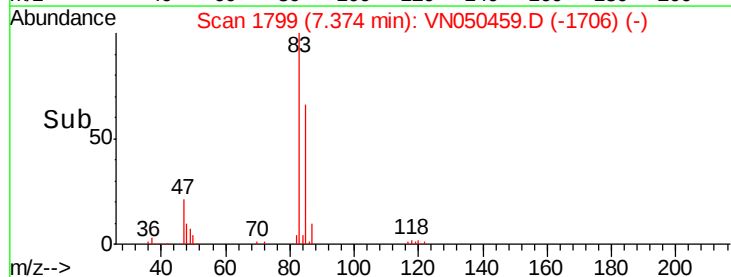
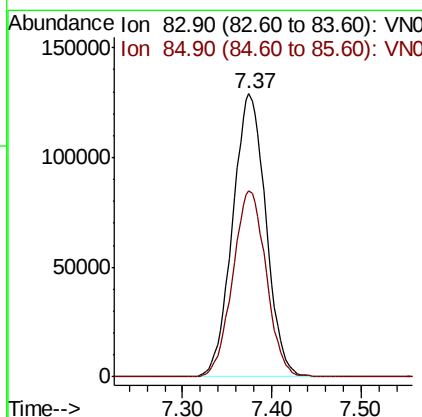
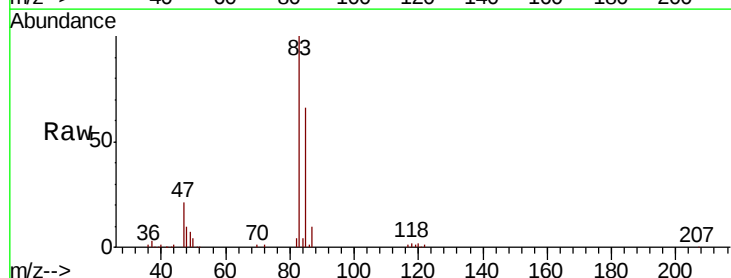
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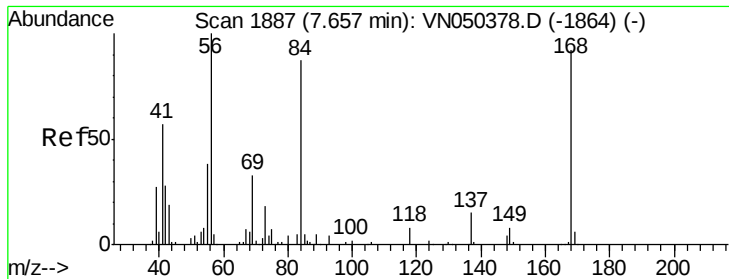
MMDadoda
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#30
Chloroform
Concen: 19.55 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.5	78.7





#31

Cyclohexane

Concen: 18.75 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

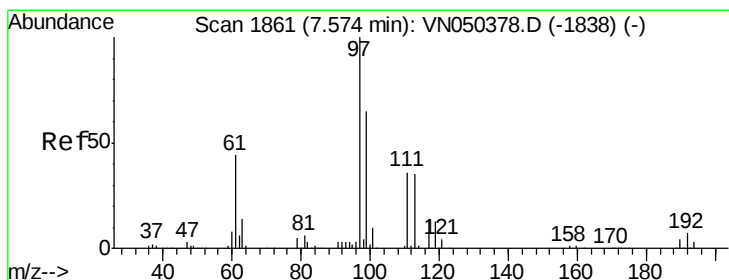
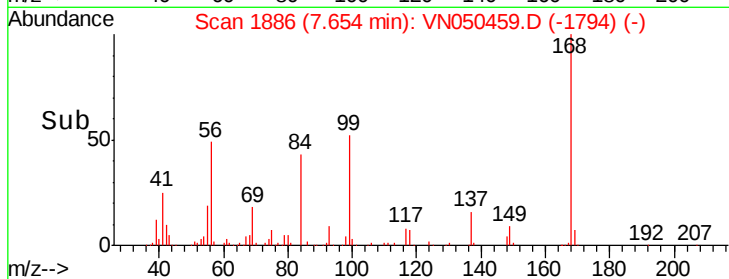
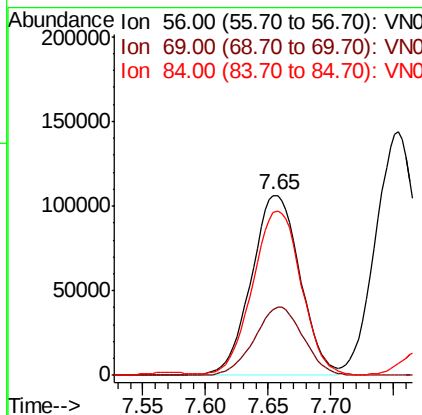
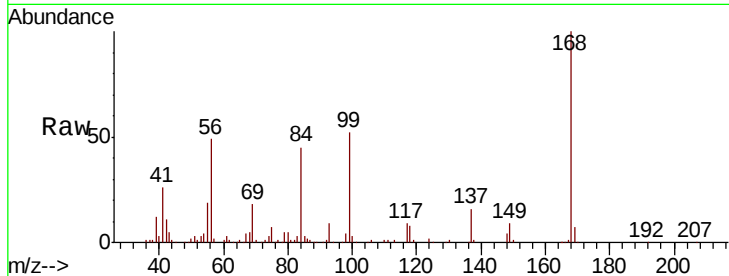
ClientSampleId :

VN0808WBSD01

Tot Ion:	56	Resp:	287537
Ion Ratio	Lower	Upper	
56	100		
69	36.7	26.2	39.4
84	89.2	67.4	101.0

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#32

1,1,1-Trichloroethane

Concen: 19.75 ug/l

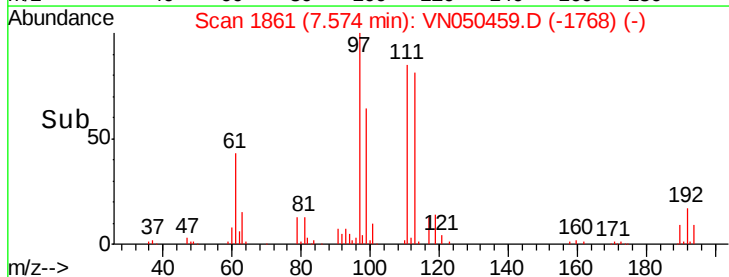
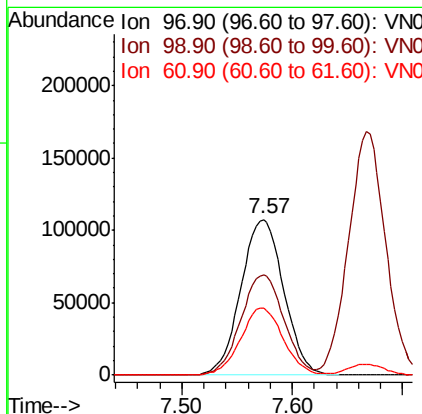
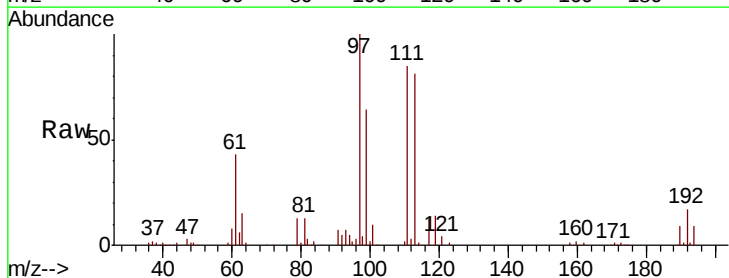
RT: 7.57 min Scan# 1861

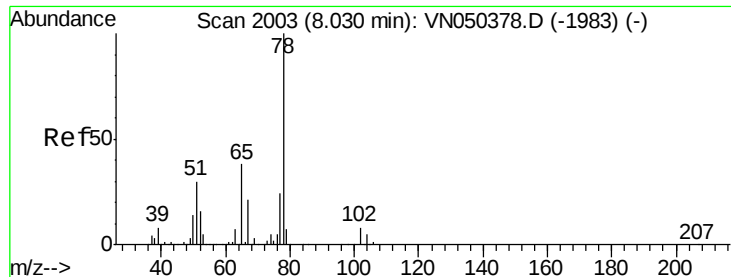
Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Tgt Ion:	97	Resp:	289373
Ion Ratio	Lower	Upper	
97	100		
99	64.6	51.4	77.0
61	42.8	35.4	53.0





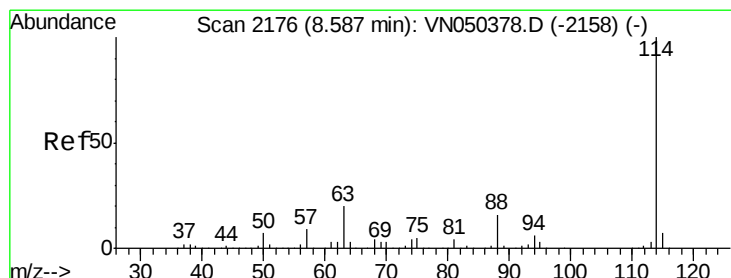
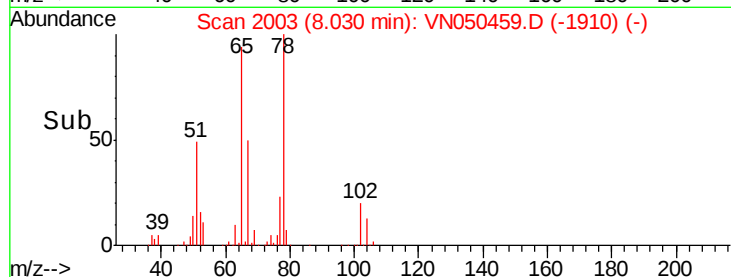
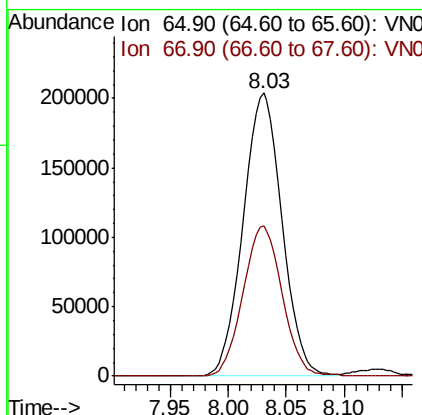
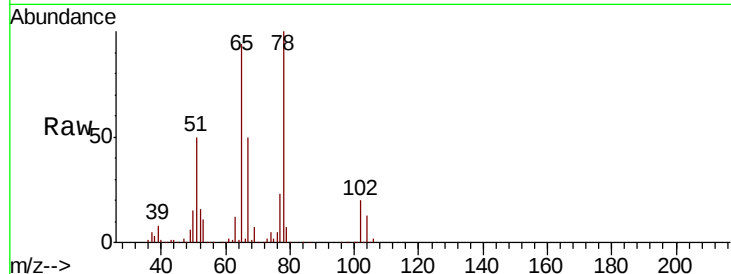
#33
 1,2-Dichloroethane-d4
 Concen: 45.46 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0808WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.4	0.0	108.4	

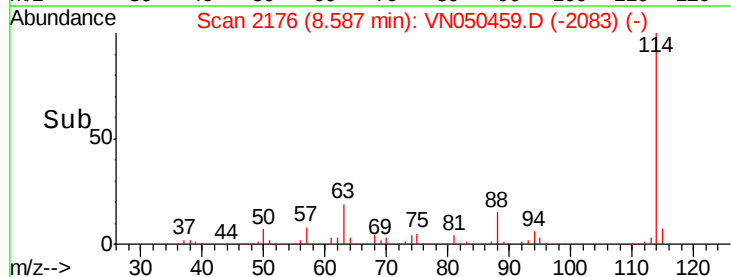
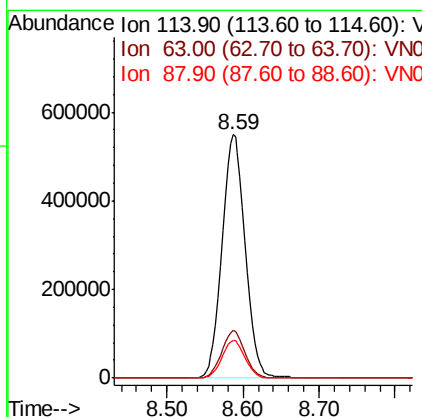
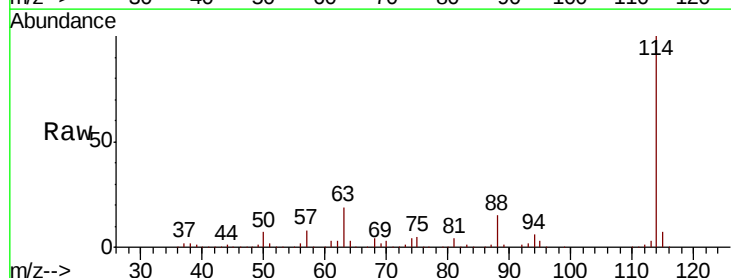
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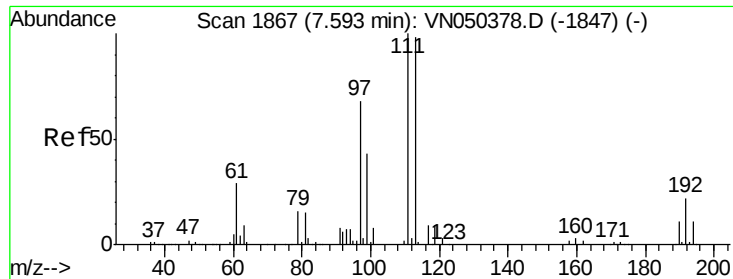
MMDadoda
 8/9/2018 1:32:15 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.5	0.0	40.0	
88	15.4	0.0	31.2	





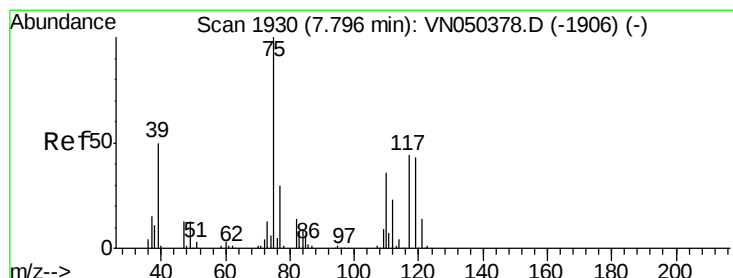
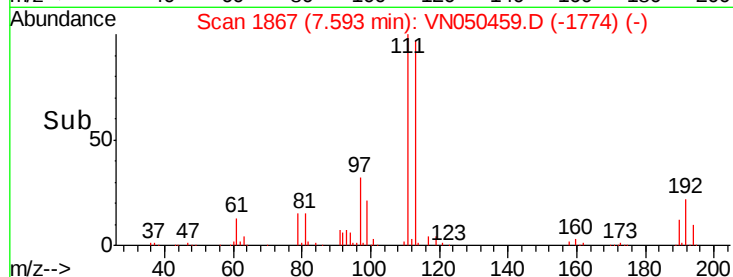
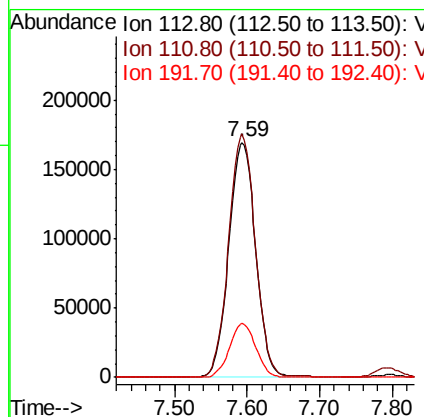
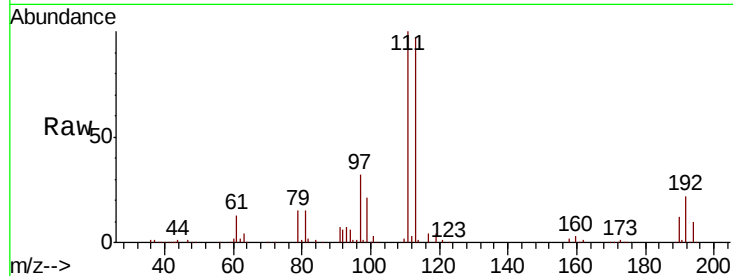
#35
 Dibromofluoromethane
 Concen: 46.78 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0808WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	437061		
111	103.0	80.7	121.1	
192	22.6	17.8	26.6	

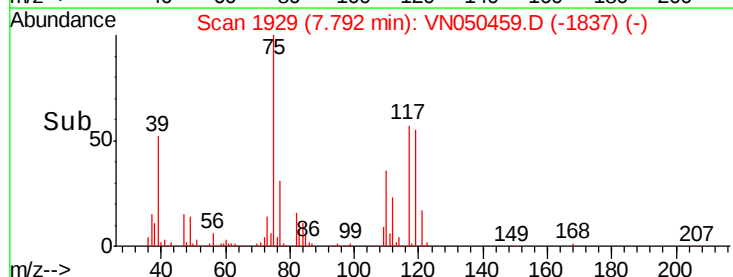
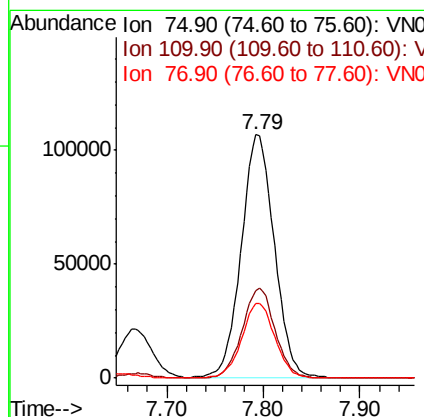
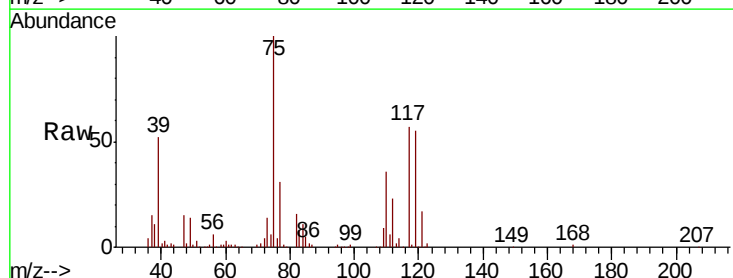
Manual Integrations
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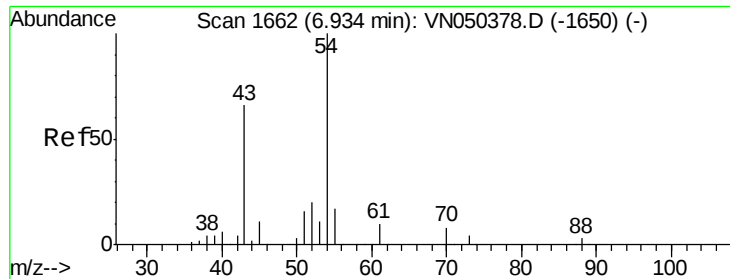
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 8/9/2018 1:32:15 PM



#36
 1,1-Dichloropropene
 Concen: 19.79 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	253225		
110	36.9	18.4	55.2	
77	31.0	25.3	37.9	





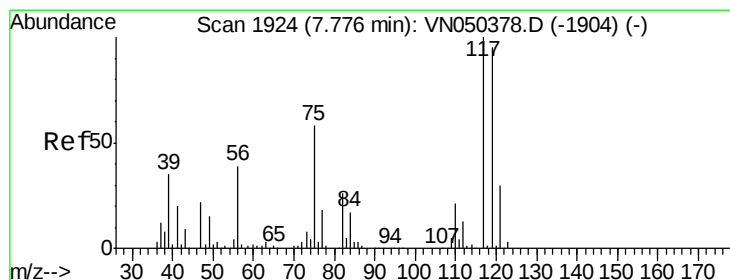
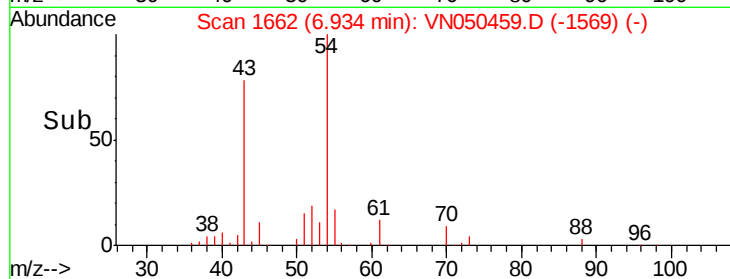
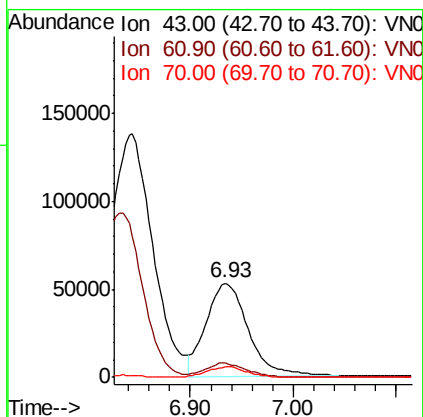
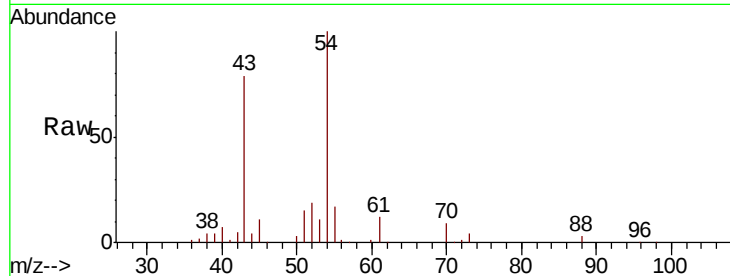
#37
Ethyl Acetate
Concen: 16.27 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.8	17.8
70	10.2	8.4	12.6

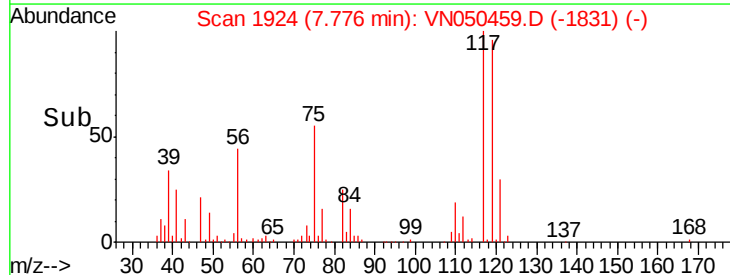
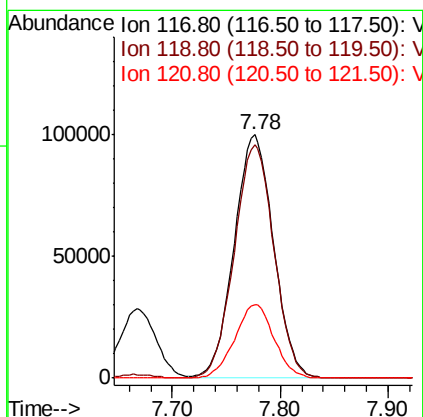
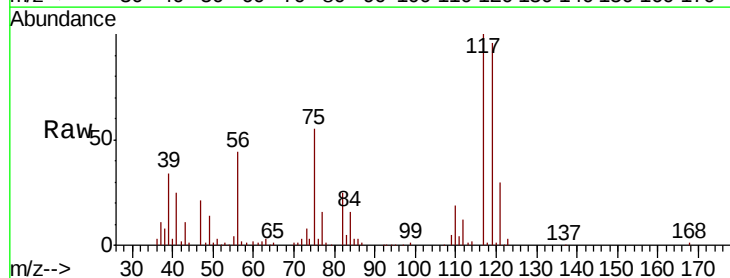
Manual Integrations
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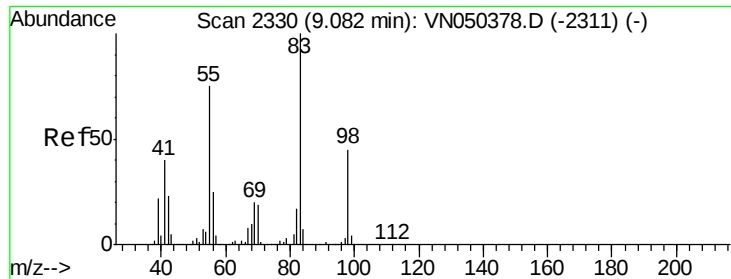
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#38
Carbon Tetrachloride
Concen: 19.08 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.4	116.0
121	30.1	23.9	35.9





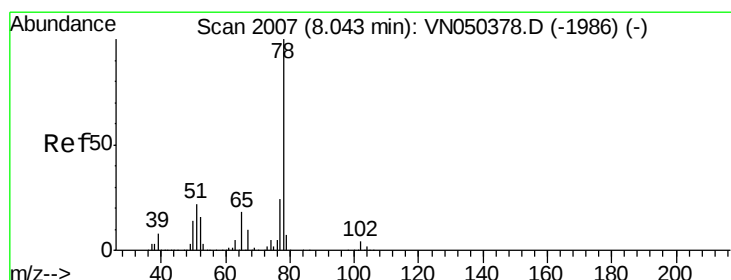
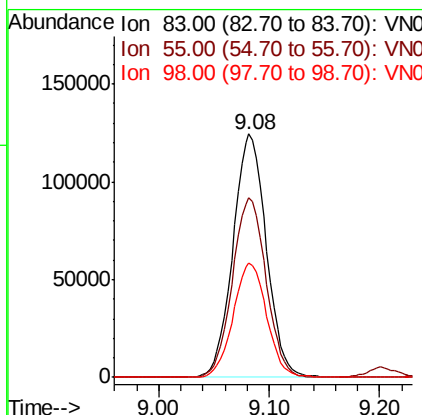
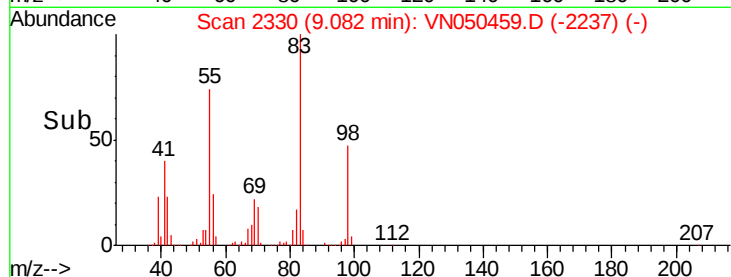
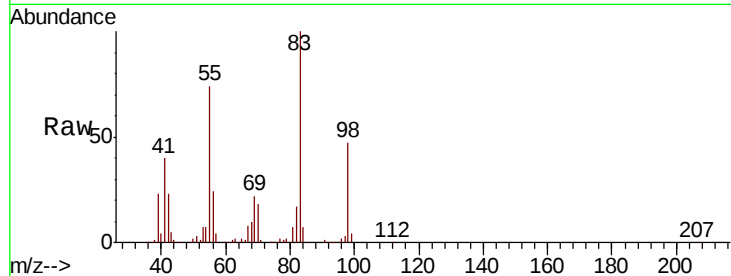
#39
Methvlcvclohexane
Concen: 18.65 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	260455		
55	73.7		61.8	92.8
98	47.2		36.5	54.7

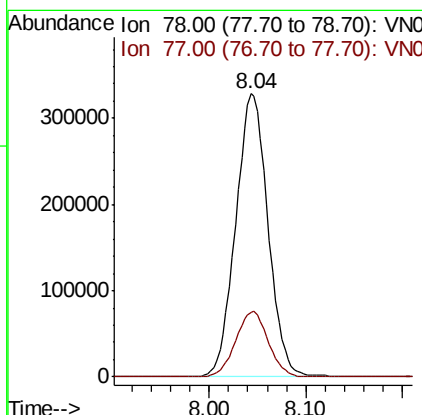
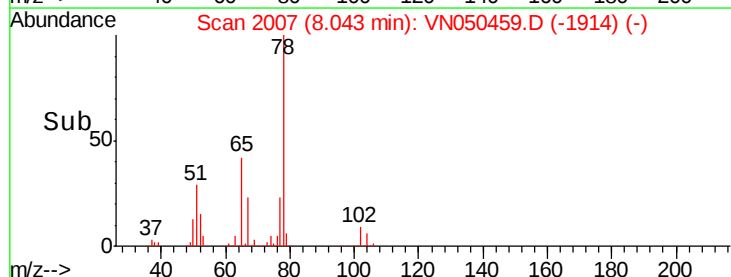
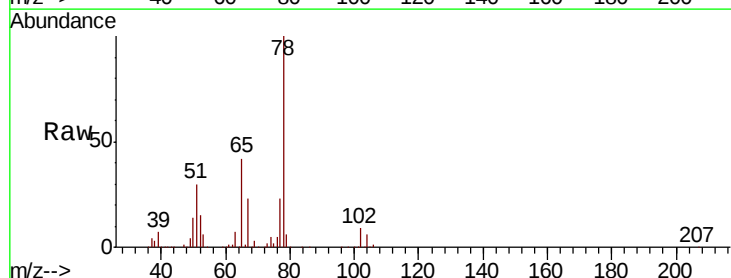
Manual Integrations
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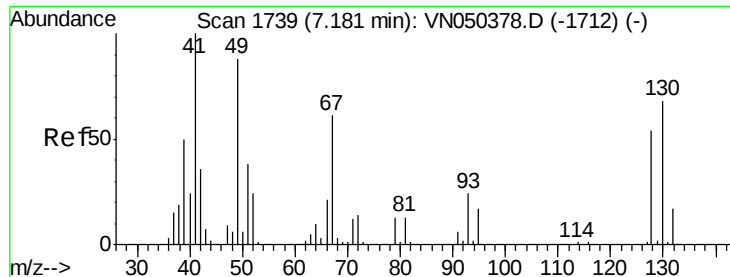
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#40
Benzene
Concen: 19.39 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	762684		
77	23.0		18.7	28.1





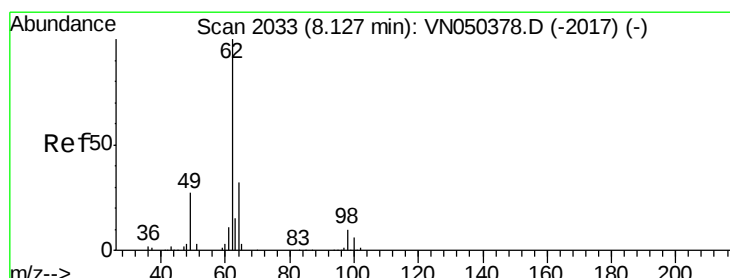
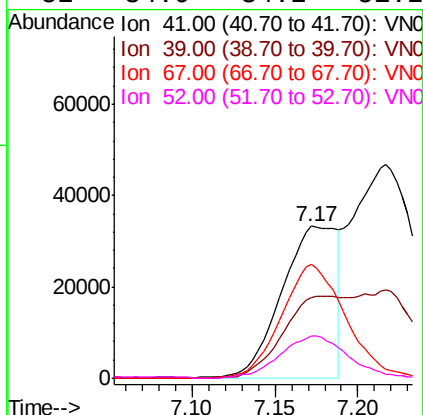
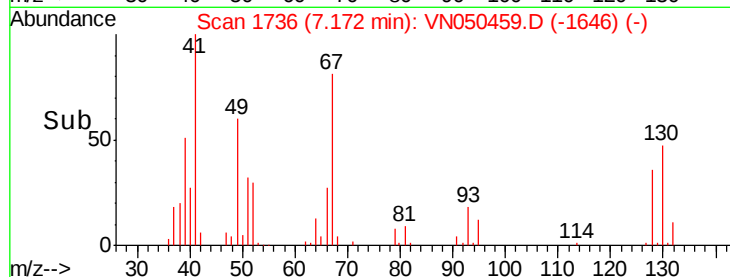
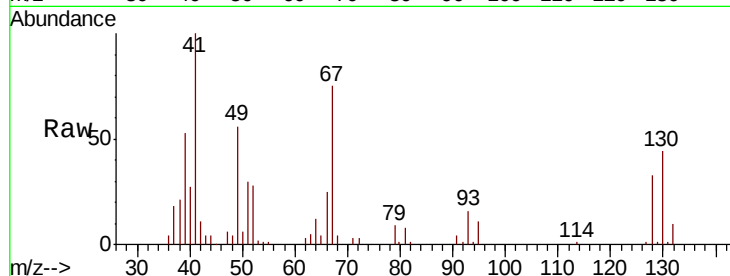
#41
Methacrylonitrile
Concen: 15.74 ug/l
RT: 7.17 min Scan# 1736
Delta R.T. -0.01 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion:	41	Resp:	77103
Ion	Ratio	Lower	Upper
41	100		
39	61.7	55.8	83.6
67	87.4	84.3	126.5
52	34.9	34.2	51.2

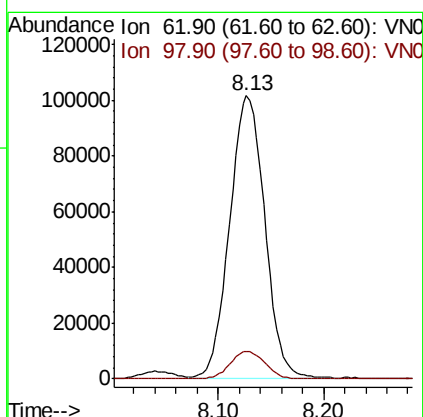
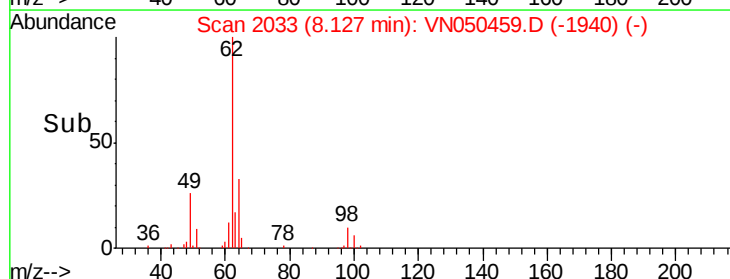
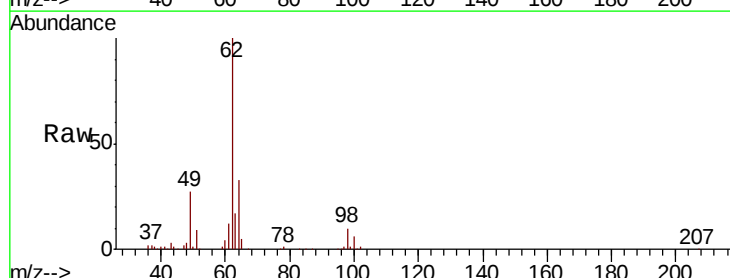
Manual Integrations
APPROVED

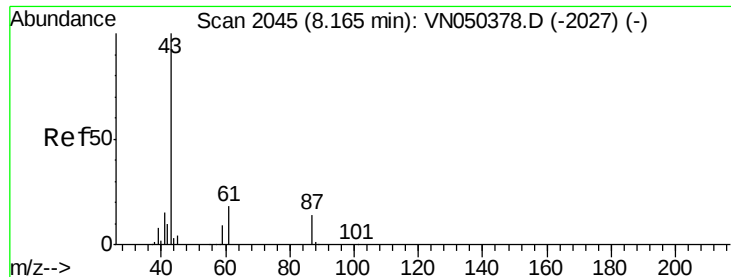
MMDadoda
8/9/2018 1:32:15 PM



#42
1,2-Dichloroethane
Concen: 18.74 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion:	62	Resp:	233969
Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	18.8





#43

Isopropyl Acetate

Concen: 16.72 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

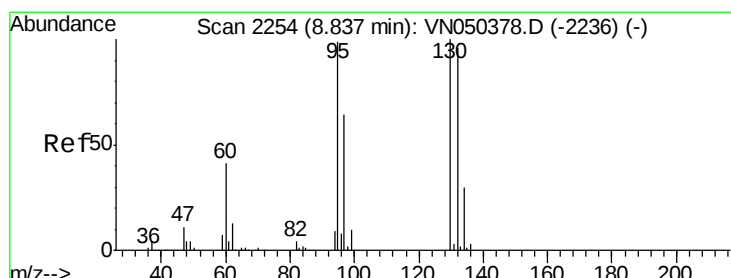
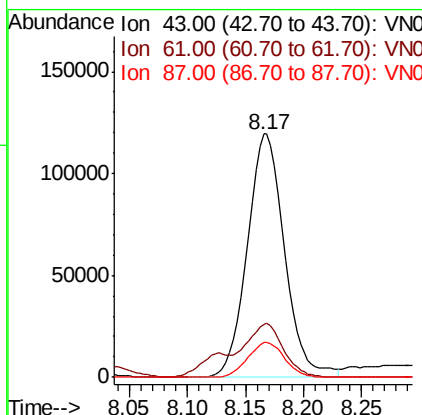
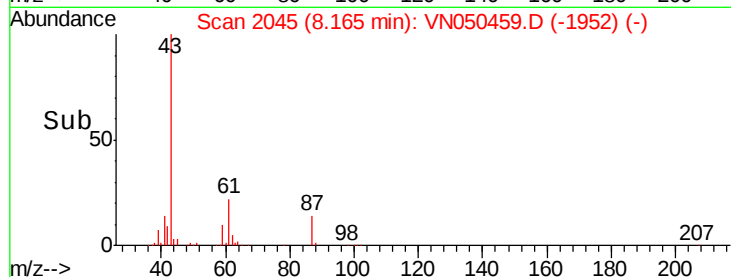
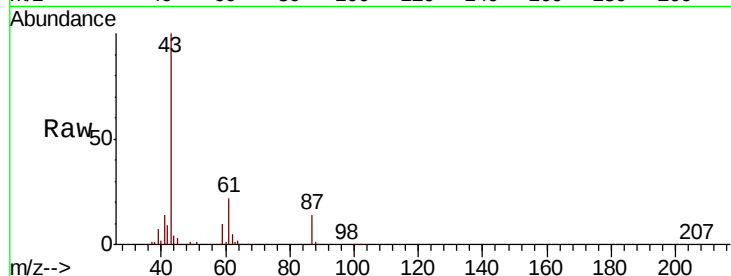
ClientSampleId :

VN0808WBSD01

Tot Ion:	43	Resp:	265940
Ion	Ratio	Lower	Upper
43	100		
61	21.6	15.8	23.6
87	14.3	10.3	15.5

Manual Integrations
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#44

Trichloroethene

Concen: 19.83 ug/l

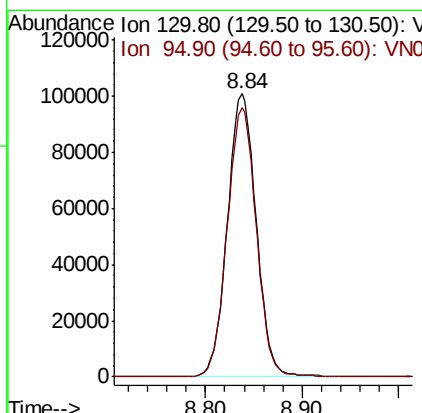
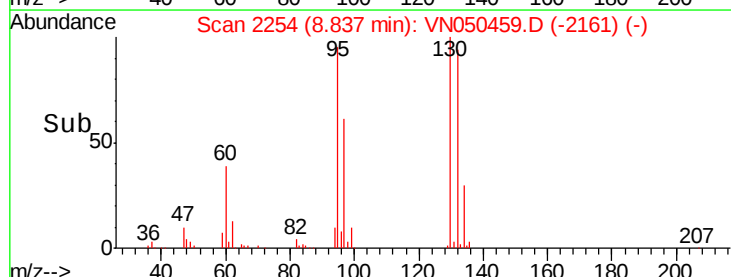
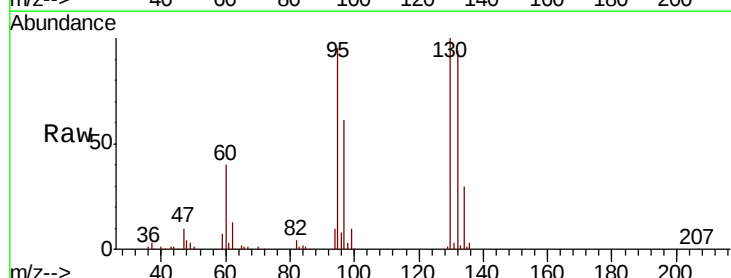
RT: 8.84 min Scan# 2254

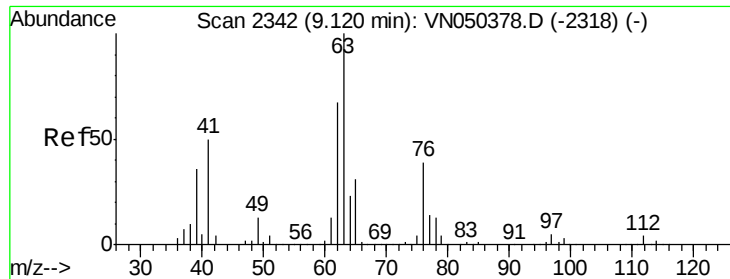
Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Tgt Ion:	130	Resp:	209548
Ion	Ratio	Lower	Upper
130	100		
95	95.3	0.0	194.6





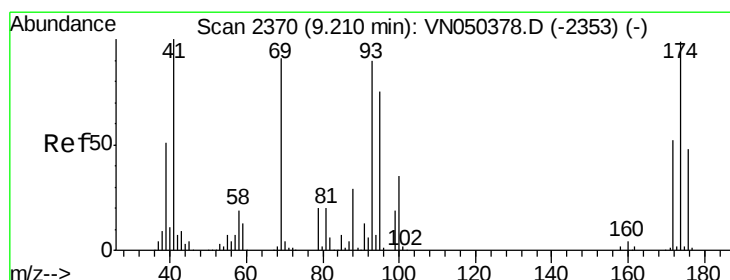
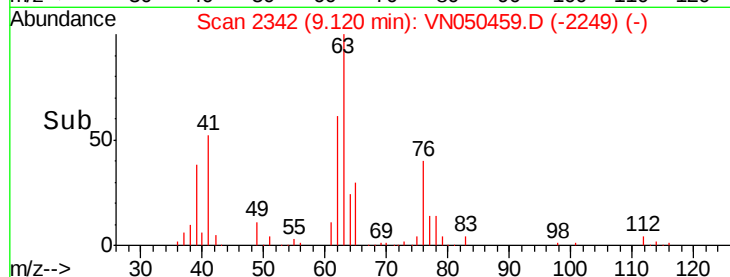
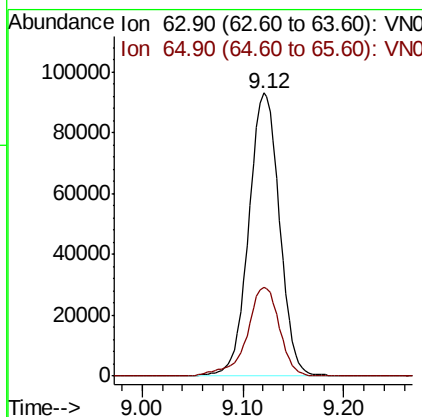
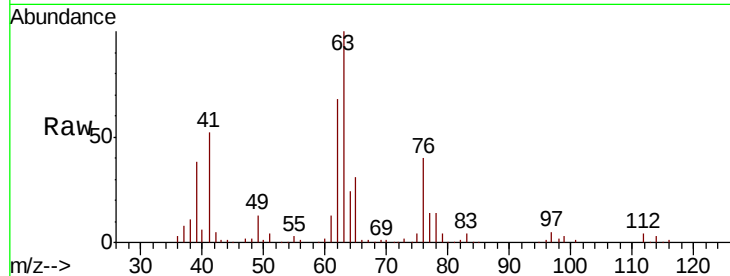
#45
 1,2-Dichloropropane
 Concen: 18.96 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0808WBSD01

Tot Ion: 63 Resp: 196045
 Ion Ratio Lower Upper
 63 100
 65 31.3 25.5 38.3

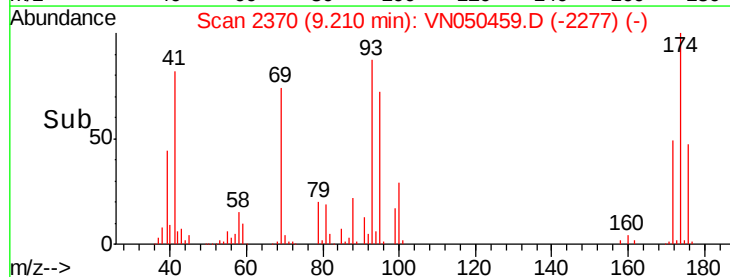
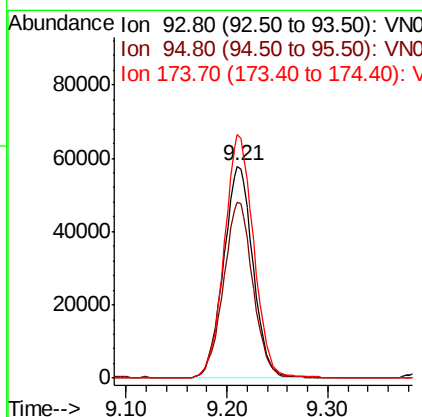
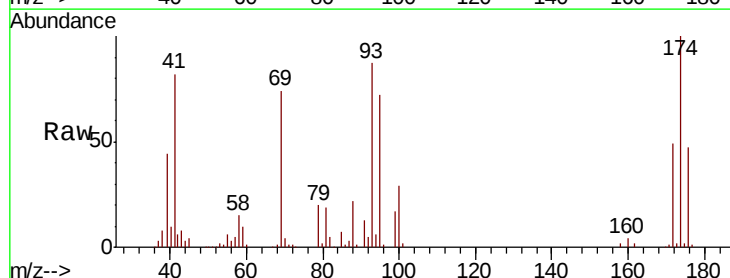
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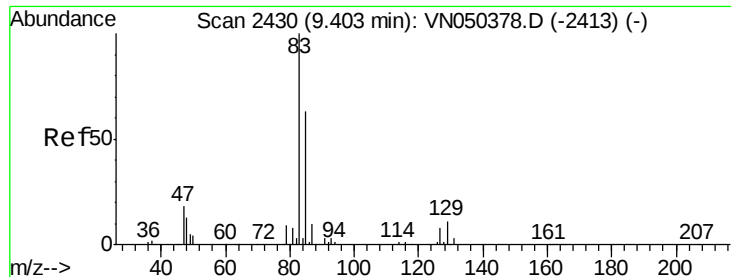
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#46
 Dibromomethane
 Concen: 18.41 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Tgt Ion: 93 Resp: 117584
 Ion Ratio Lower Upper
 93 100
 95 83.3 66.6 100.0
 174 114.9 87.1 130.7





#47

Bromodichloromethane

Concen: 18.87 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

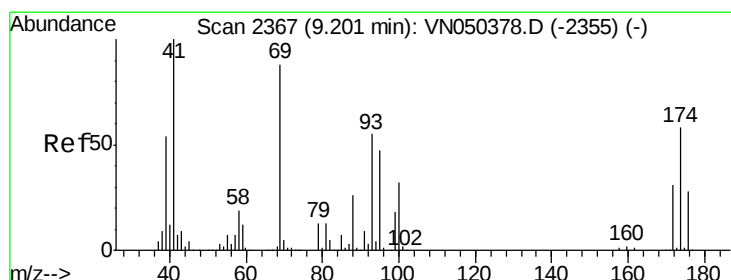
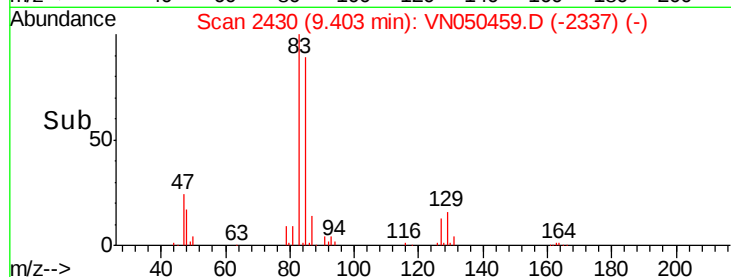
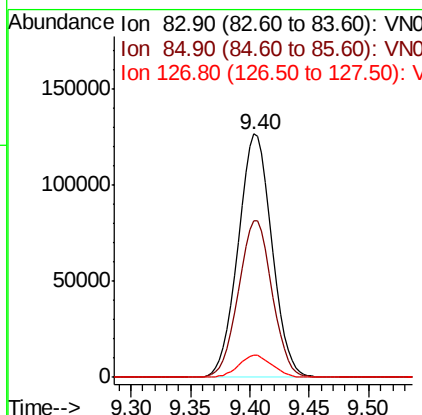
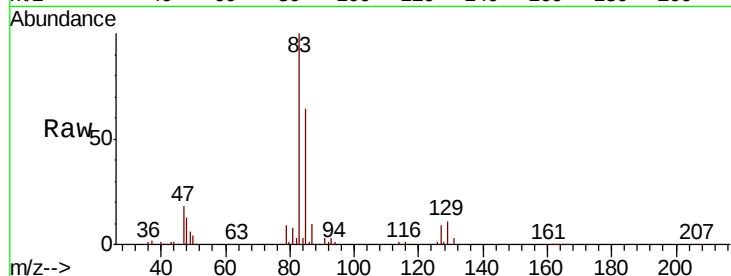
ClientSampleId :

VN0808WBSD01

Tot Ion:	83	Resp:	249618
Ion Ratio	Lower	Upper	
83	100		
85	64.4	51.1	76.7
127	9.0	7.0	10.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 16.55 ug/l

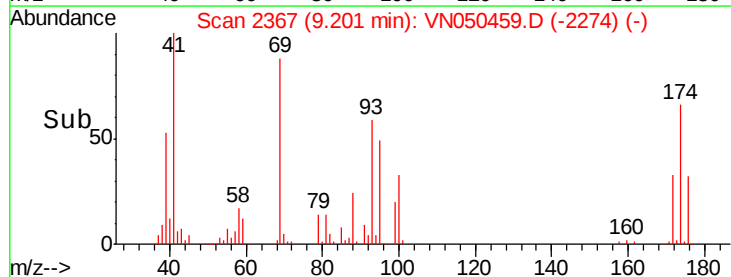
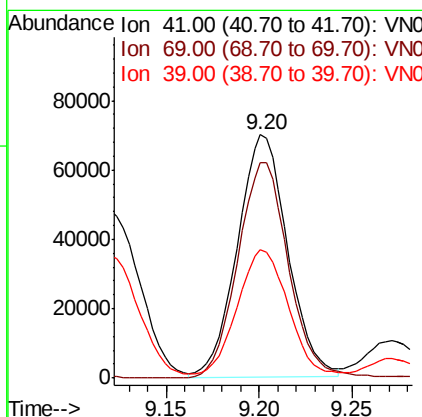
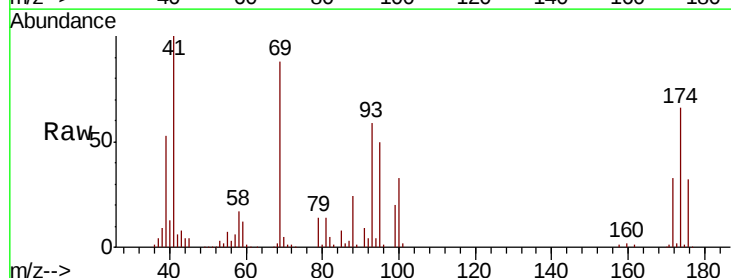
RT: 9.20 min Scan# 2367

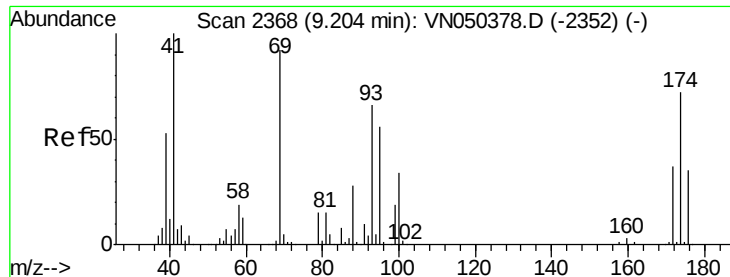
Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Tgt Ion:	41	Resp:	131942
Ion Ratio	Lower	Upper	
41	100		
69	90.9	70.6	105.8
39	54.3	43.9	65.9





#49

1,4-Dioxane

Concen: 287.56 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

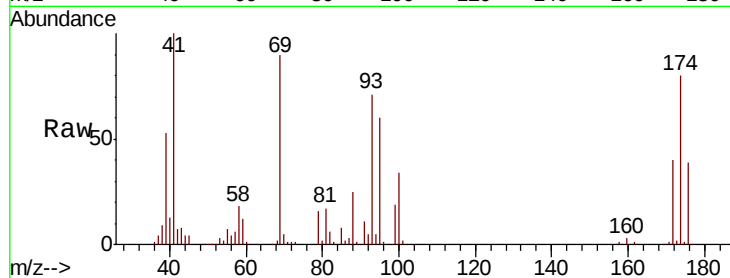
ClientSampleId :

VN0808WBSD01

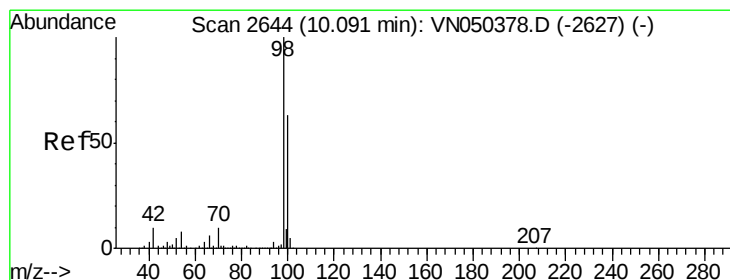
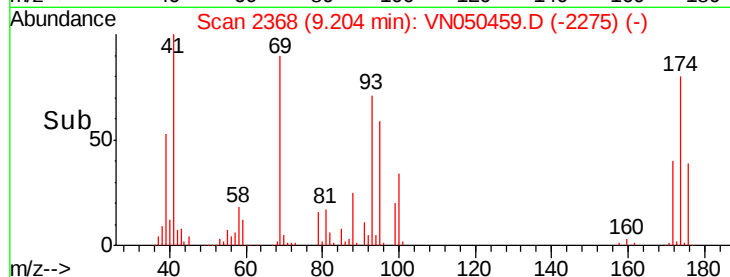
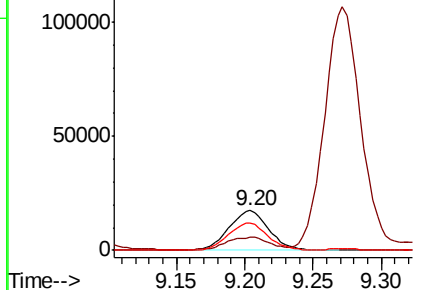
Tot Ion:	88	Resp:	35337
Ion	Ratio	Lower	Upper
88	100		
43	31.6	26.9	40.3
58	68.7	57.3	85.9

Manual Integrations
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Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 46.14 ug/l

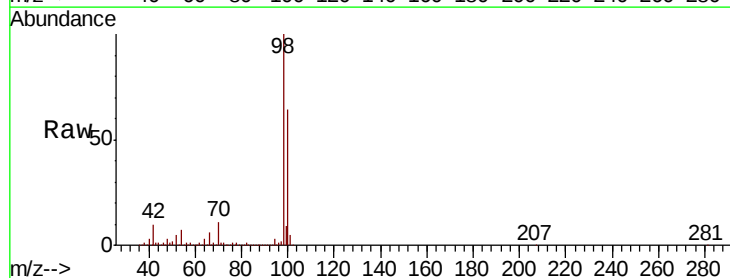
RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

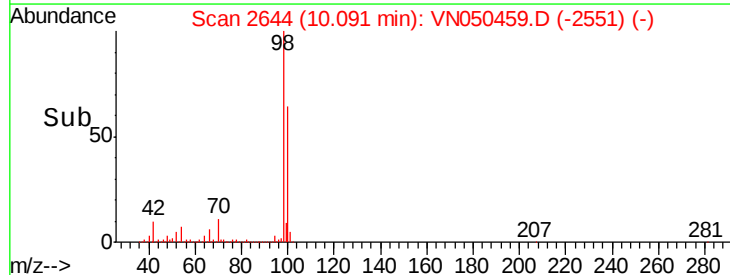
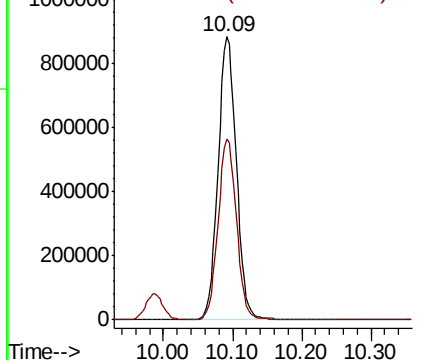
Lab File: VN050459.D

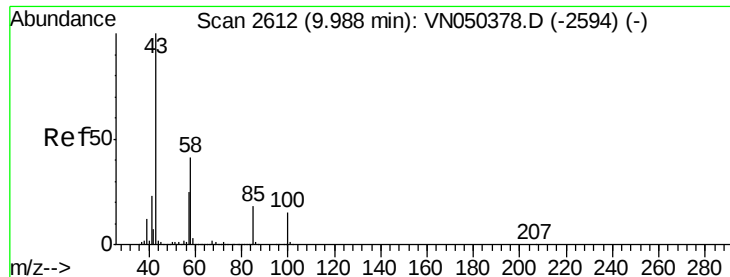
Acq: 8 Aug 2018 15:14

Tgt Ion:	98	Resp:	1621054
Ion	Ratio	Lower	Upper
98	100		
100	64.0	50.7	76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





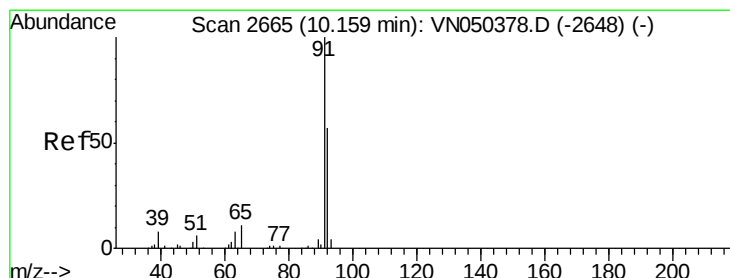
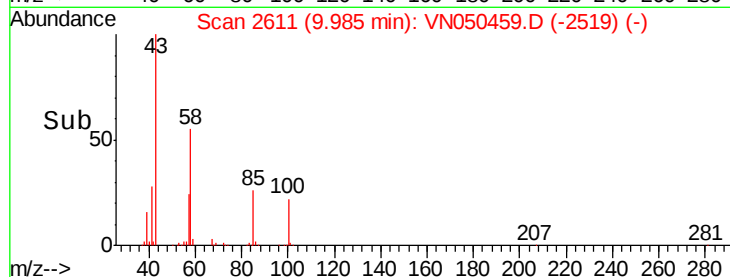
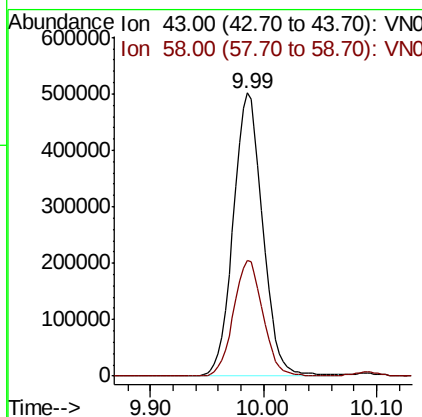
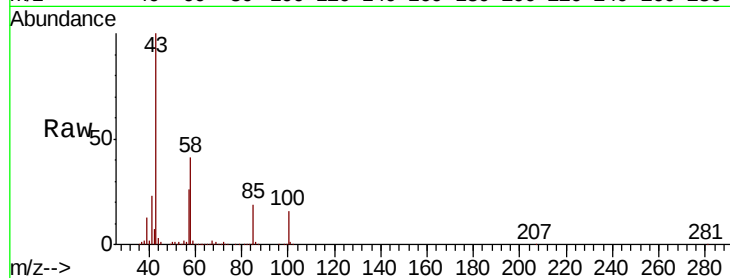
#51
4-Methyl-2-Pentanone
Concen: 79.20 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.0	31.9	47.9

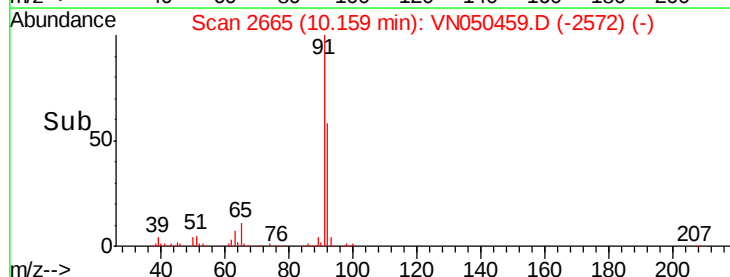
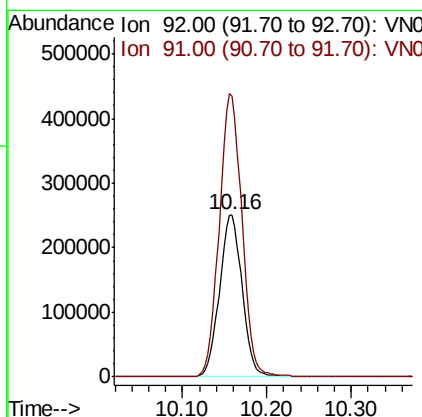
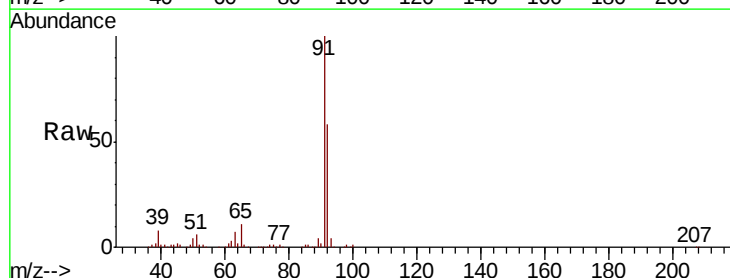
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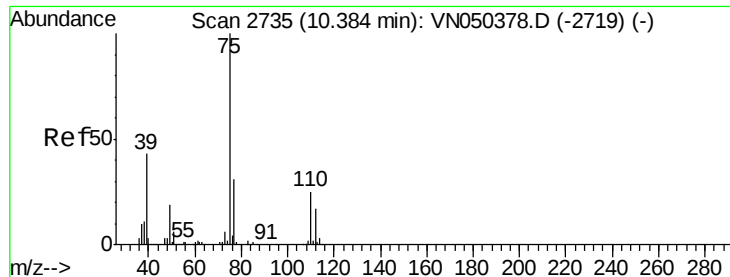
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#52
Toluene
Concen: 19.78 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.3	140.3	210.5





#53

t-1,3-Dichloropropene

Concen: 18.09 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 75 Resp: 240319

Ion Ratio Lower Upper

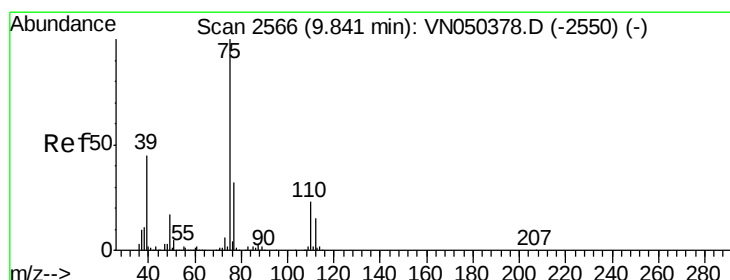
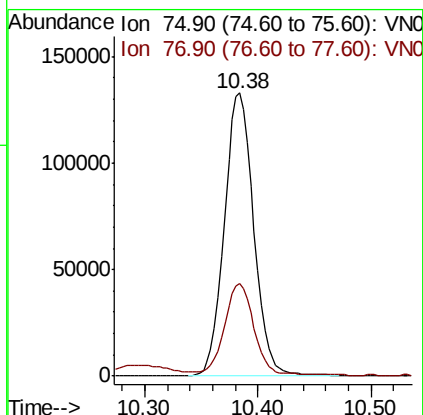
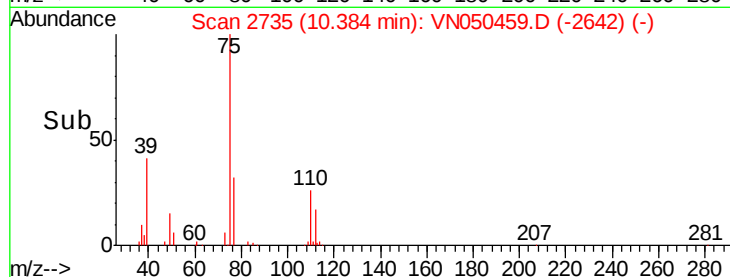
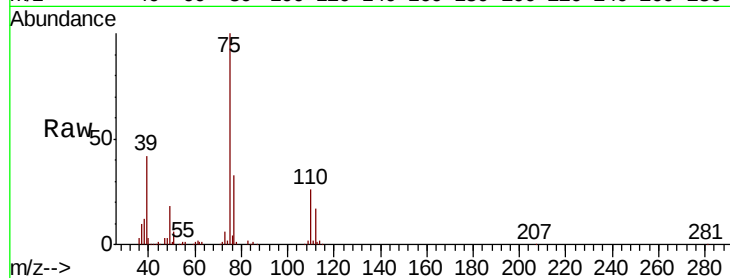
75 100

77 32.2 24.9 37.3

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 19.11 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

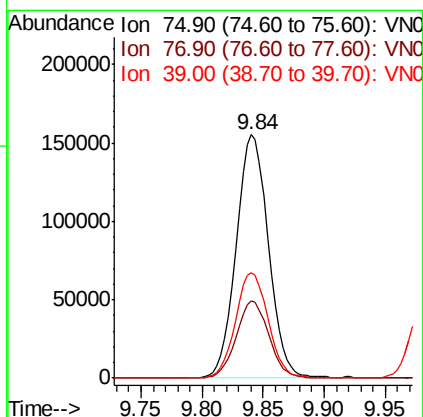
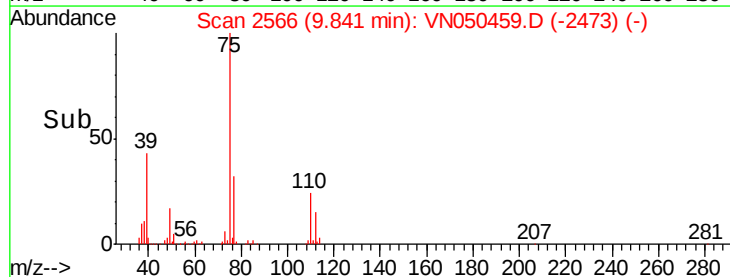
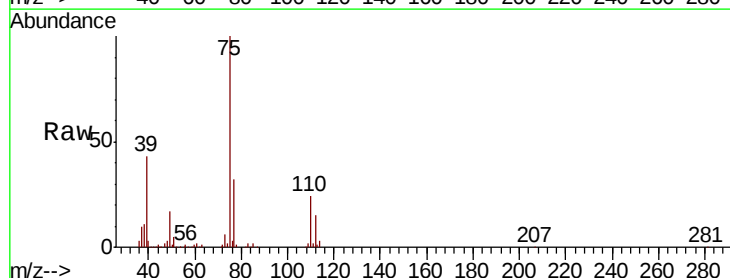
Tgt Ion: 75 Resp: 283273

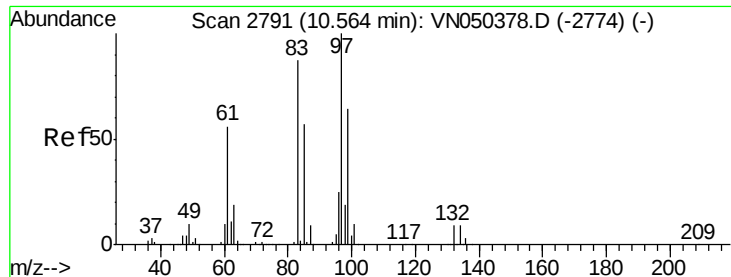
Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3

39 43.5 36.6 55.0





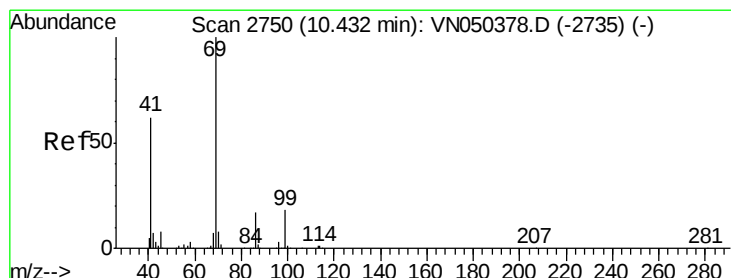
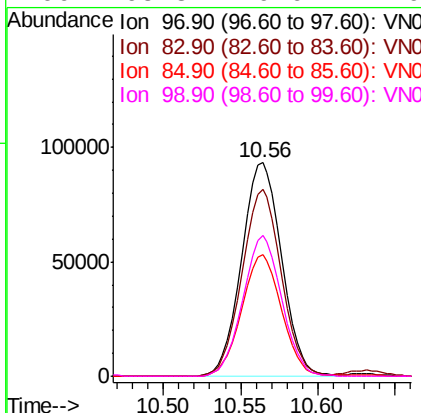
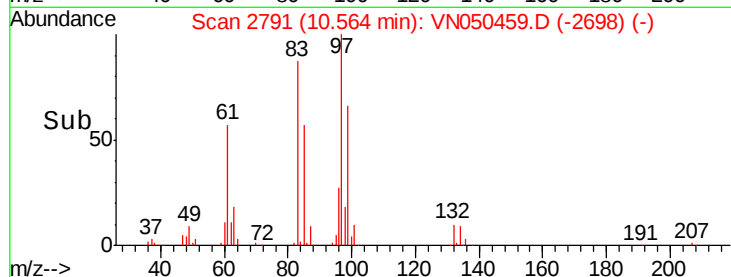
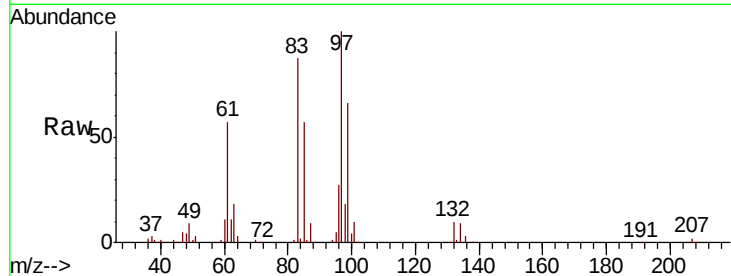
#55
 1,1,2-Trichloroethane
 Concen: 18.27 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0808WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		168509		
83	87.5	69.2	103.8		
85	56.8	44.0	66.0		
99	65.8	49.9	74.9		

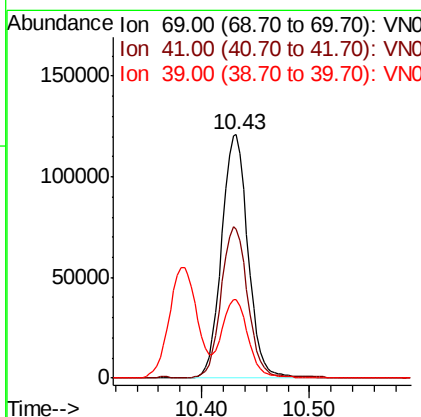
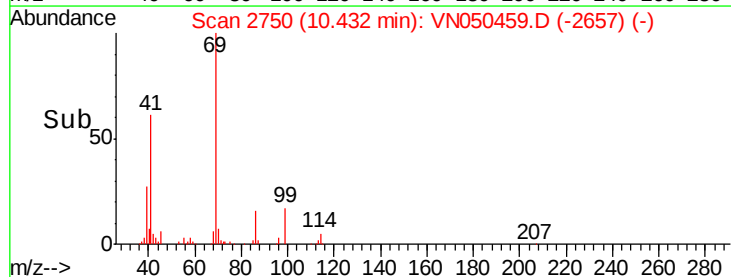
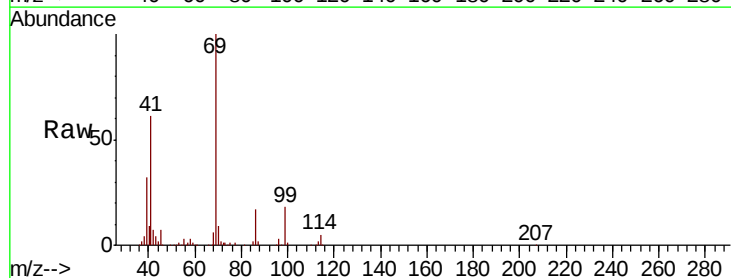
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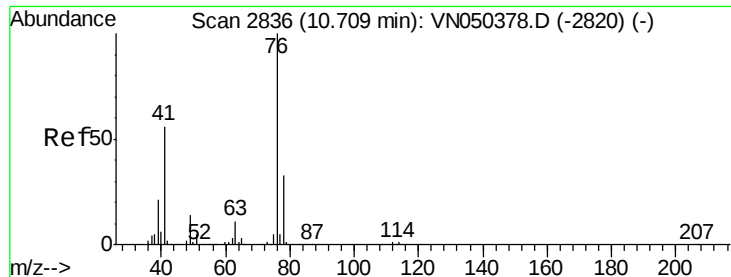
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#56
 Ethyl methacrylate
 Concen: 16.97 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		206312		
41	61.8	51.0	76.4		
39	31.6	26.6	40.0		





#57

1,3-Dichloropropane

Concen: 18.61 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 76 Resp: 281782

Ion Ratio Lower Upper

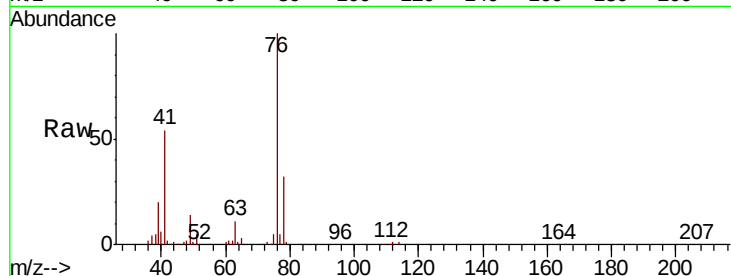
76 100

78 32.5 25.7 38.5

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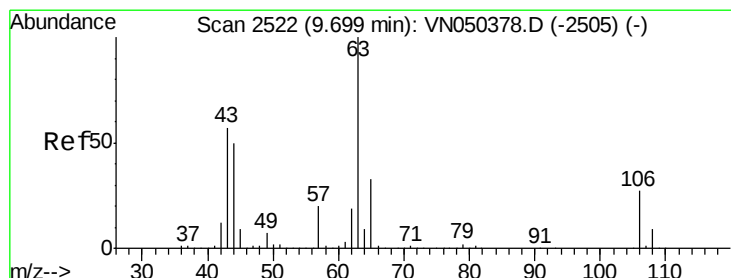
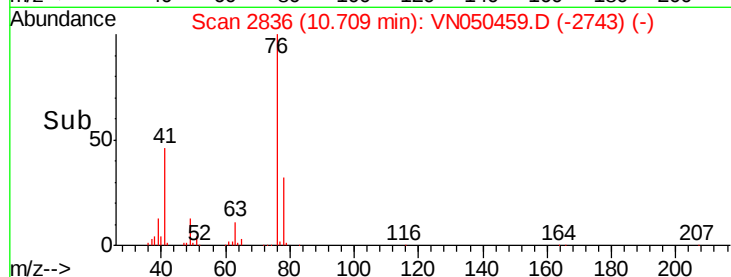
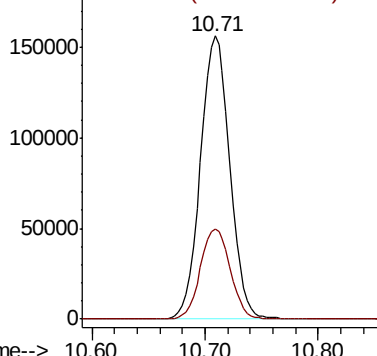
MMDadoda

8/9/2018 1:32:15 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 80.75 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. -0.00 min

Lab File: VN050459.D

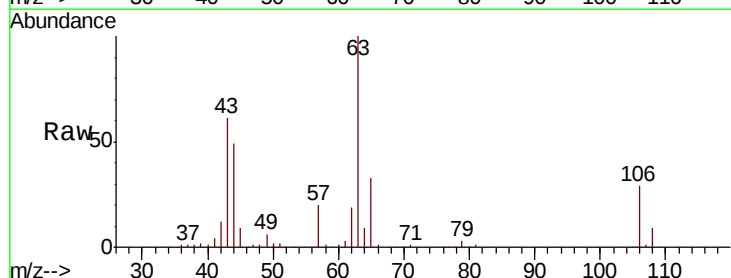
Acq: 8 Aug 2018 15:14

Tgt Ion: 63 Resp: 459969

Ion Ratio Lower Upper

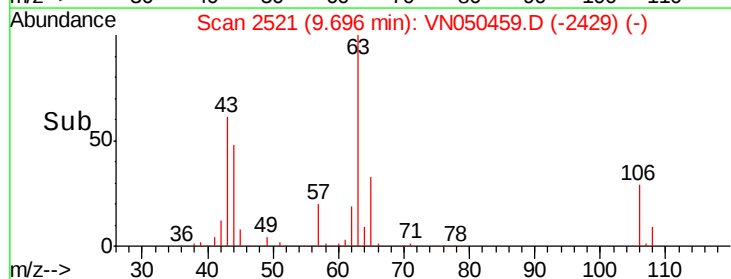
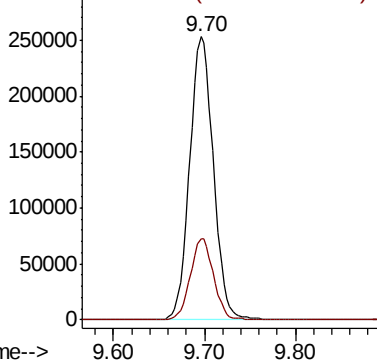
63 100

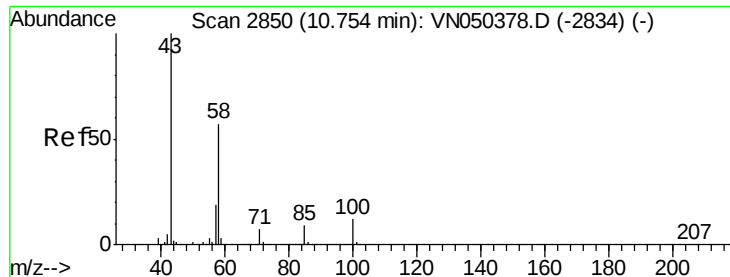
106 28.2 21.7 32.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





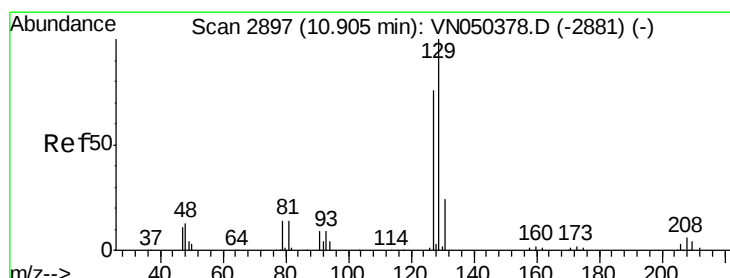
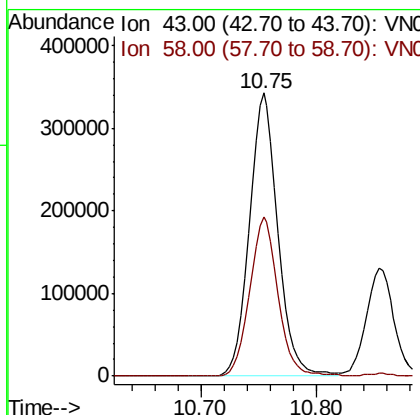
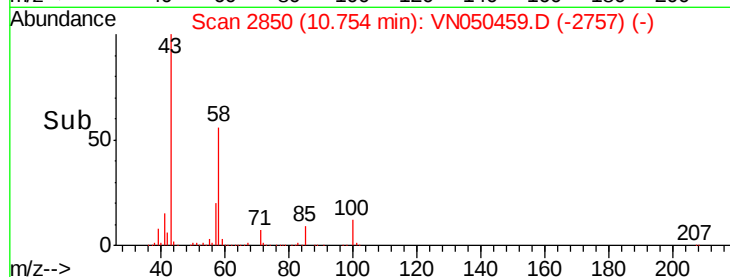
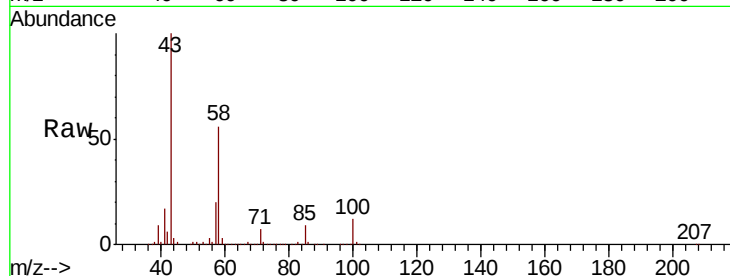
#59
2-Hexanone
Concen: 73.15 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.2	27.6	82.7

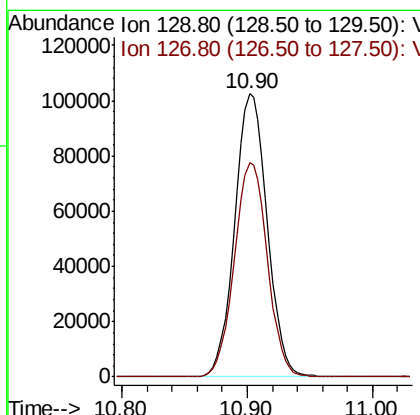
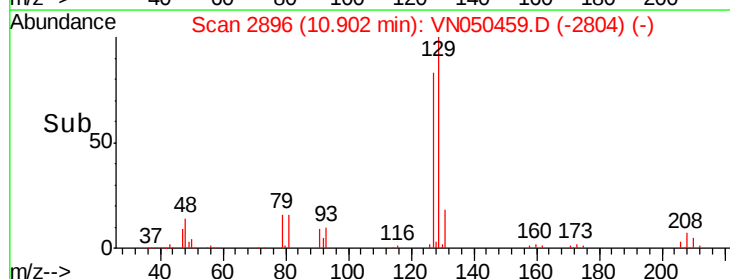
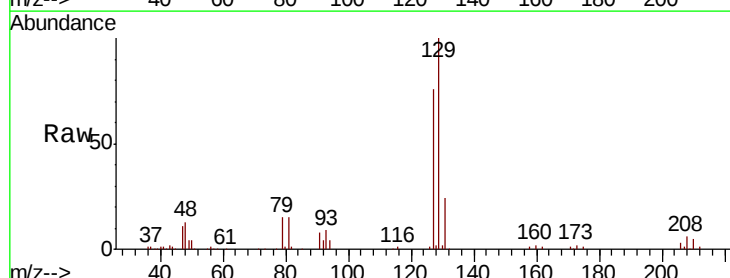
Manual Integrations
APPROVED

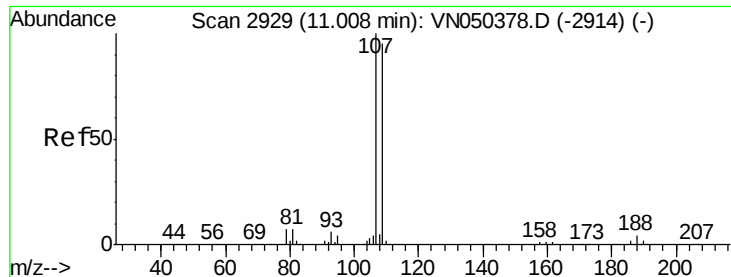
MMDadoda
8/9/2018 1:32:15 PM



#60
Dibromochloromethane
Concen: 18.14 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.0	113.9





#61

1,2-Dibromoethane

Concen: 17.86 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 107 Resp: 162392

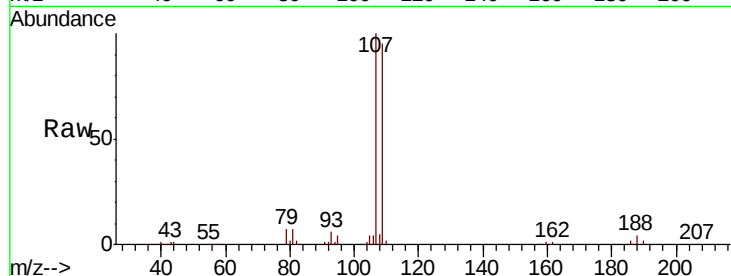
Ion Ratio Lower Upper

107 100

109 95.7 74.6 112.0

Manual Integrations
APPROVED

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8/9/2018 1:32:15 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

100000

80000

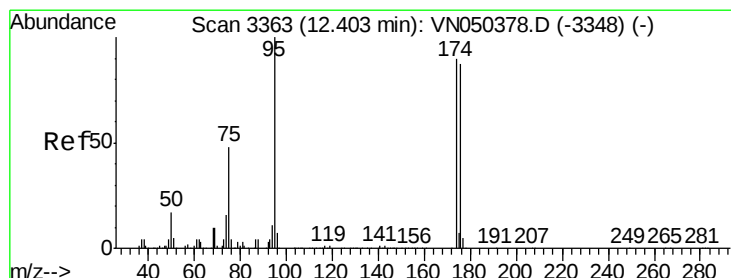
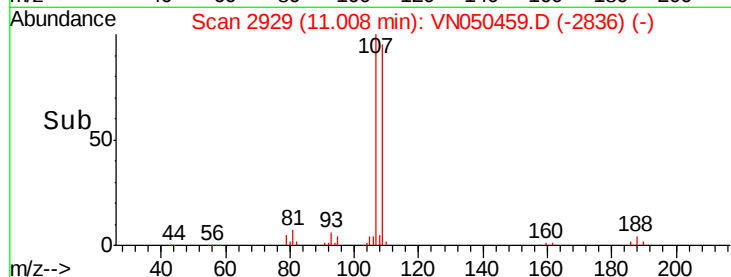
60000

40000

20000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 44.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

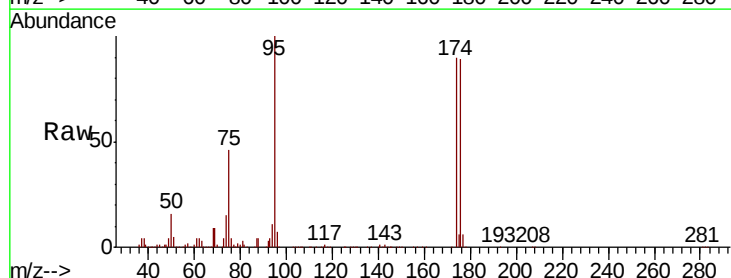
Tgt Ion: 95 Resp: 531597

Ion Ratio Lower Upper

95 100

174 89.8 0.0 178.2

176 88.0 0.0 173.4



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

12.40

400000

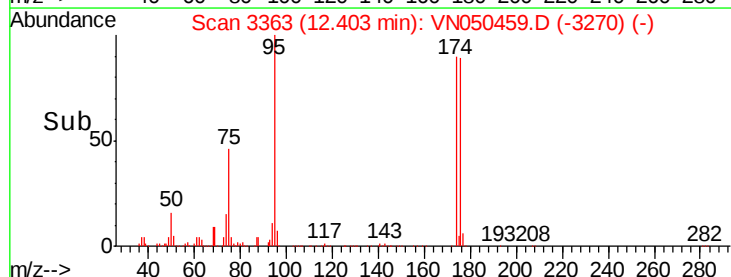
300000

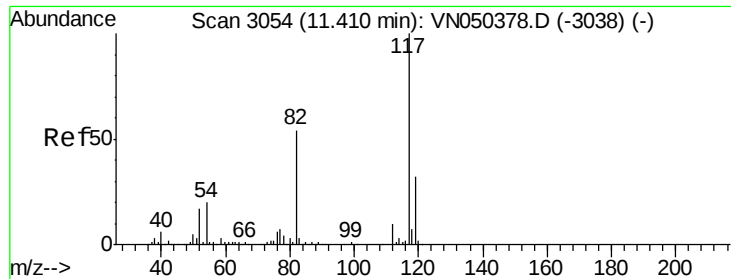
200000

100000

0

Time--> 12.35 12.40 12.45 12.50





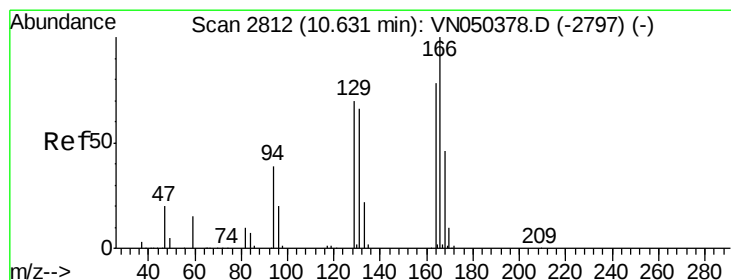
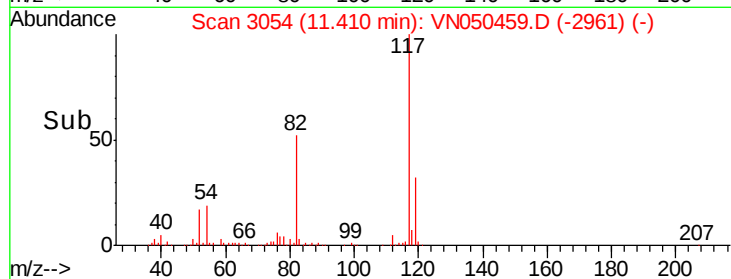
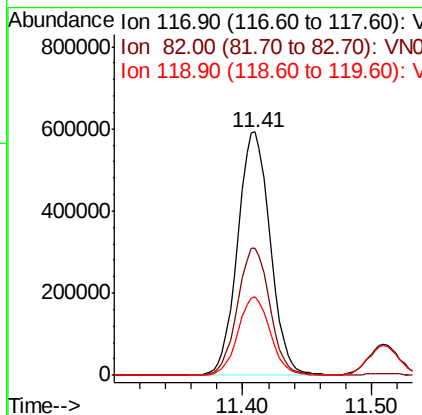
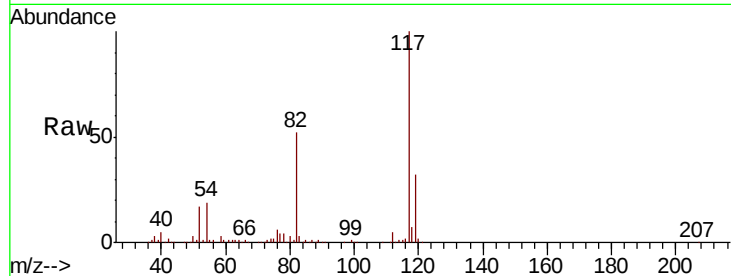
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	43.7	65.5
119	32.1	26.1	39.1

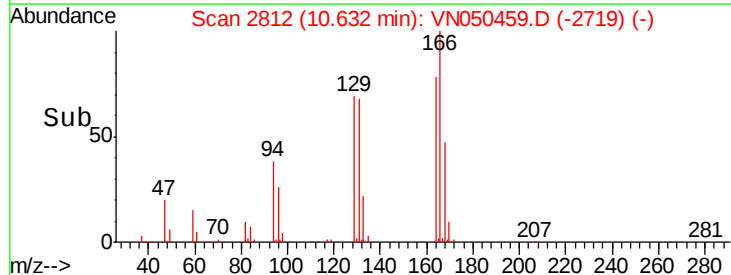
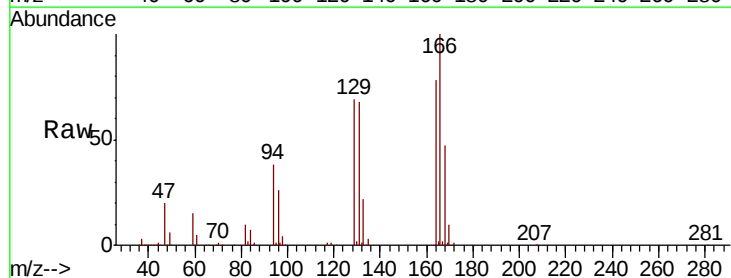
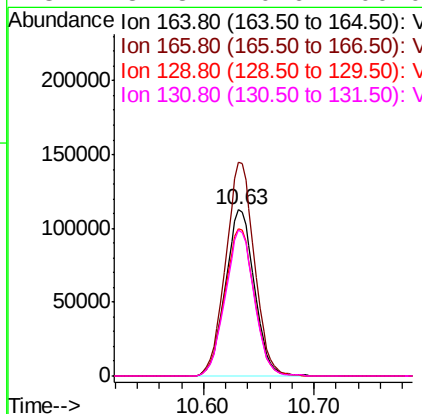
Manual Integrations
APPROVED

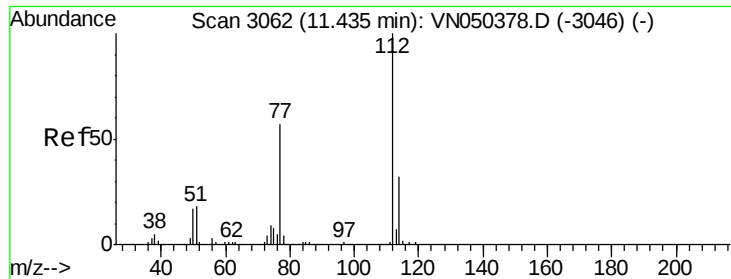
MMDadoda
8/9/2018 1:32:15 PM



#64
Tetrachloroethene
Concen: 21.01 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	102.1	153.1
129	89.0	73.2	109.8
131	87.8	70.6	106.0





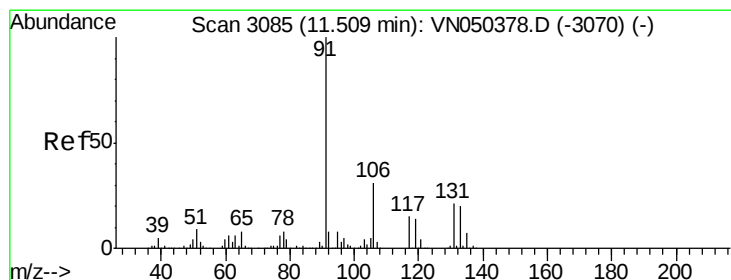
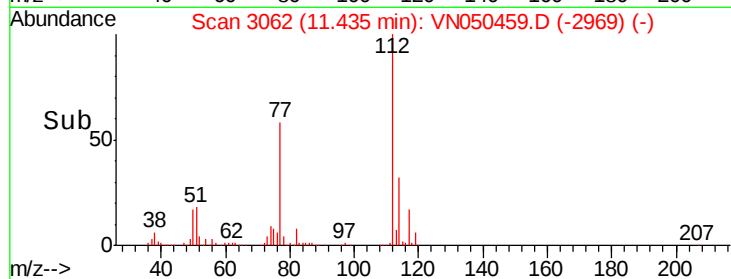
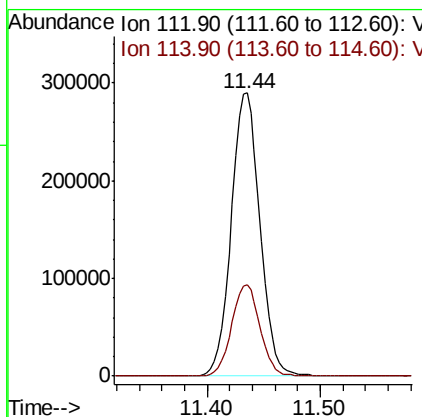
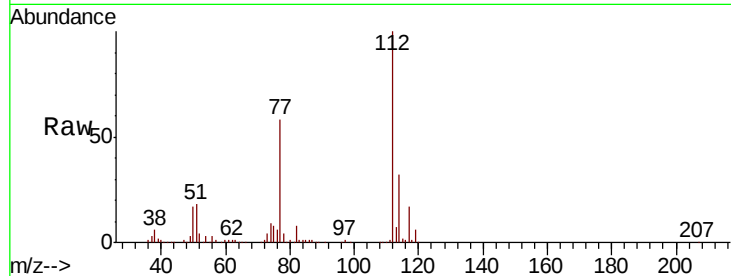
#65
Chlorobenzene
Concen: 19.51 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	510603		
114	32.2	25.6	38.4	

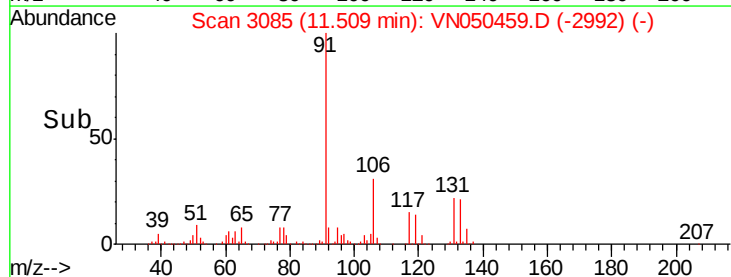
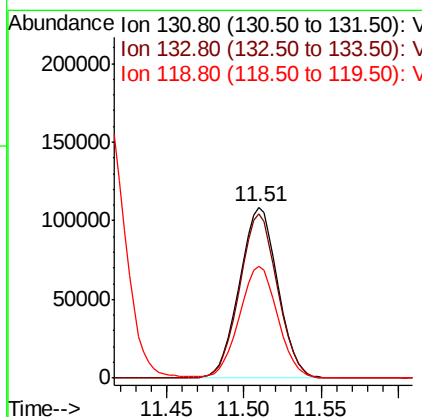
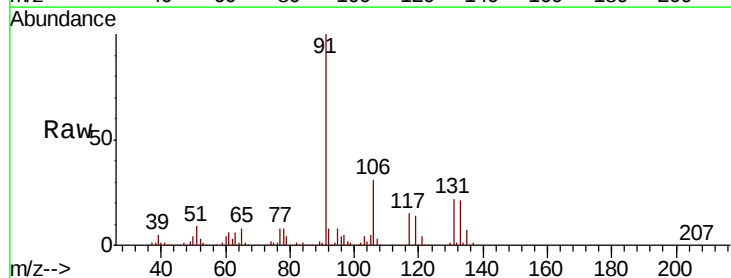
Manual Integrations
APPROVED

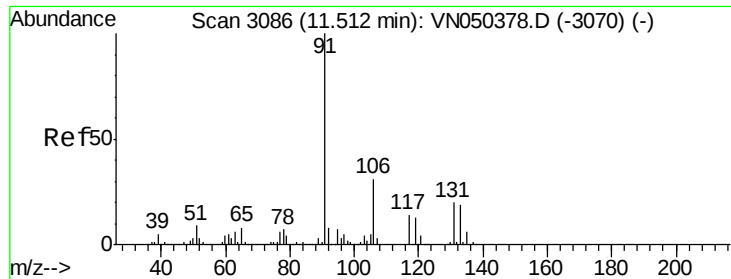
MMDadoda
8/9/2018 1:32:15 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.63 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	186998		
133	95.4	47.3	141.9	
119	65.7	32.9	98.7	





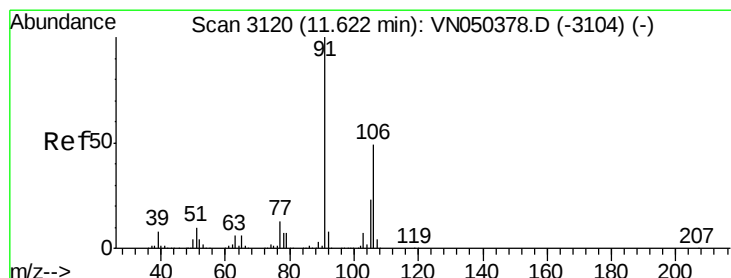
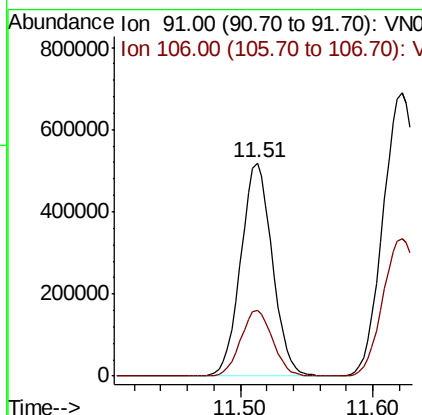
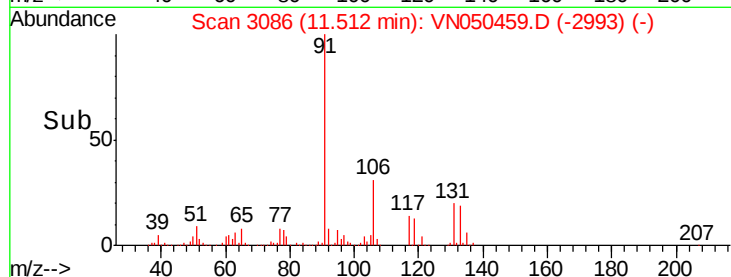
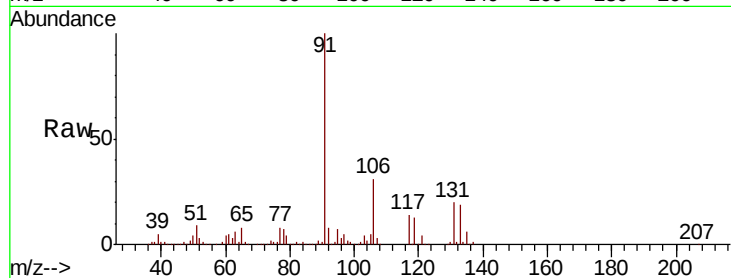
#67
Ethyl Benzene
Concen: 20.26 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion: 91 Resp: 856979
Ion Ratio Lower Upper
91 100
106 30.9 25.0 37.4

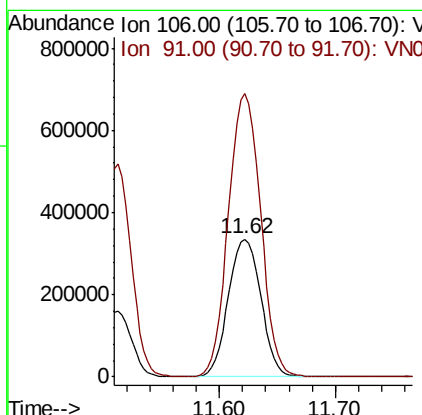
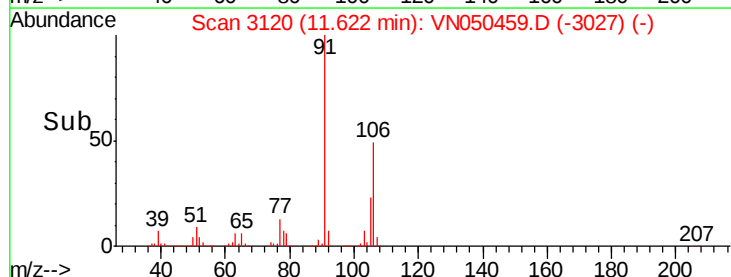
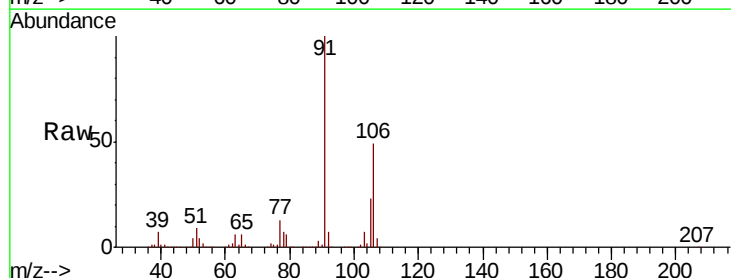
Manual Integrations
APPROVED

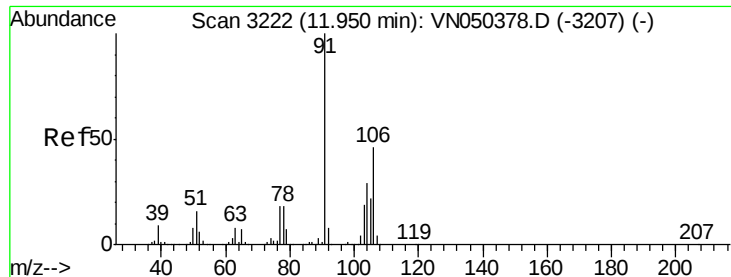
MMDadoda
8/9/2018 1:32:15 PM



#68
m/p-Xylenes
Concen: 40.89 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion: 106 Resp: 658511
Ion Ratio Lower Upper
106 100
91 202.7 162.2 243.2





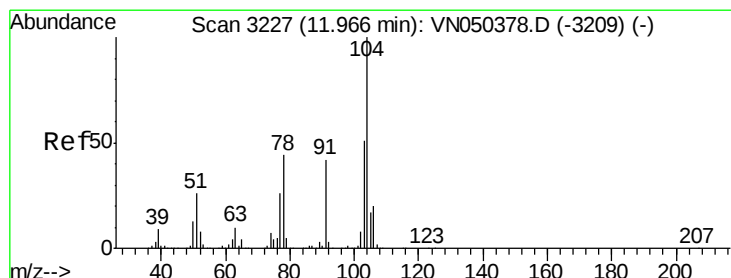
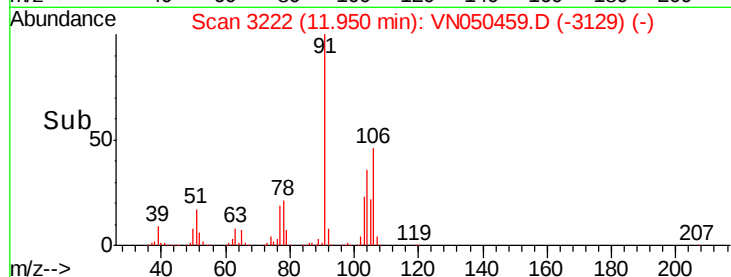
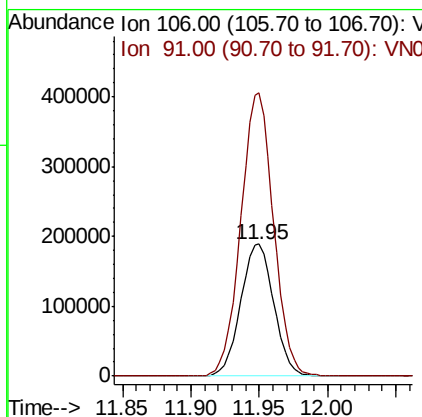
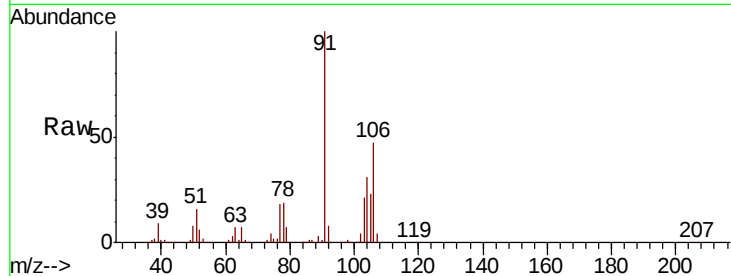
#69
o-Xylene
Concen: 20.51 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		318200		
91	211.9	107.7	323.1		

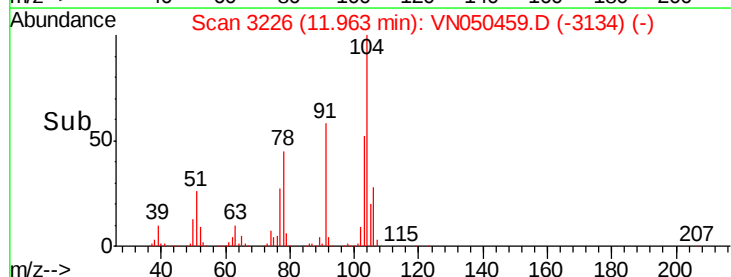
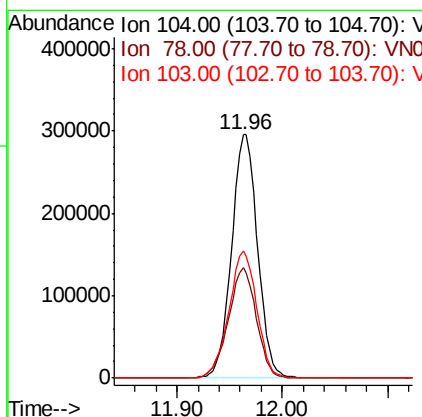
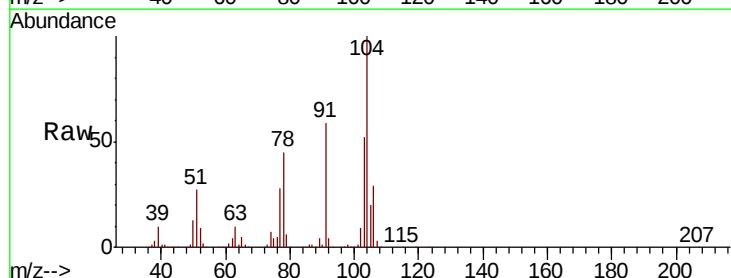
Manual Integrations
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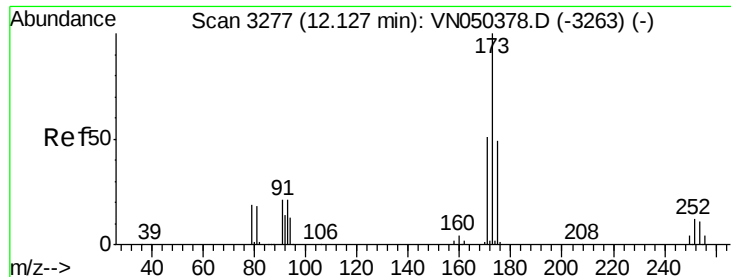
MMDadoda
8/9/2018 1:32:15 PM



#70
Styrene
Concen: 19.95 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		503335		
78	49.0	39.3	58.9		
103	56.2	45.0	67.6		





#71

Bromoform

Concen: 17.56 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

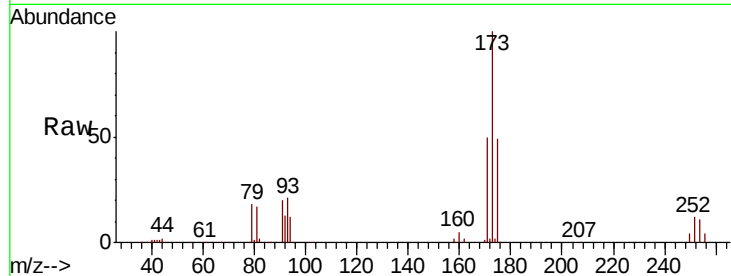
ClientSampleId :

VN0808WBSD01

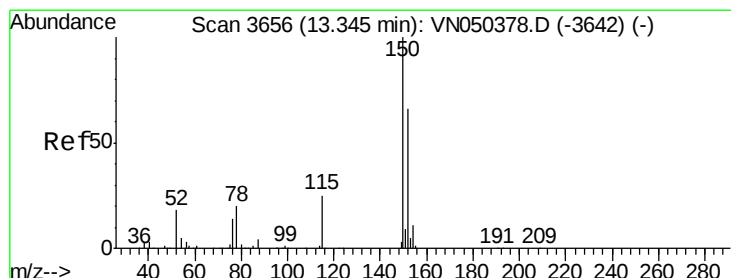
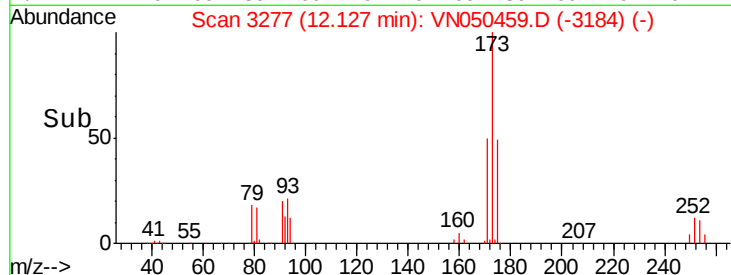
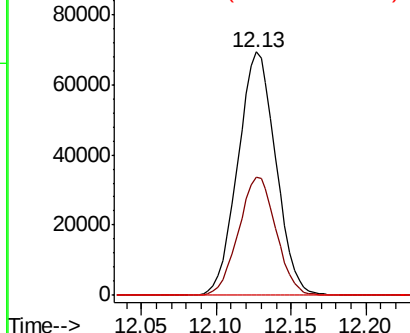
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.1	72.2
254	0.0	0.2	0.2

Manual Integrations
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8/9/2018 1:32:15 PM



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

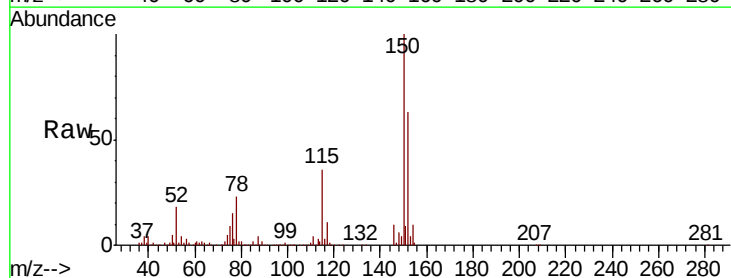
RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

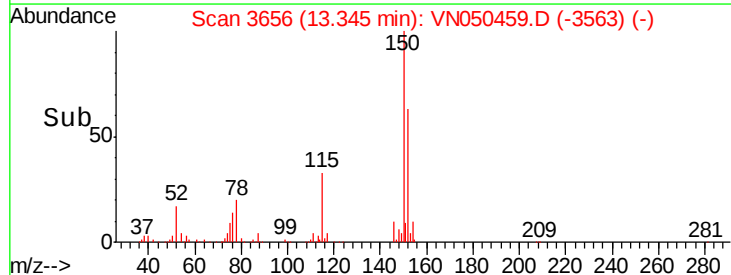
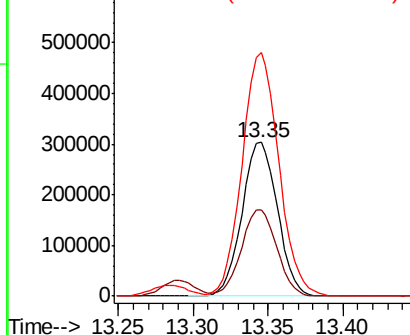
Lab File: VN050459.D

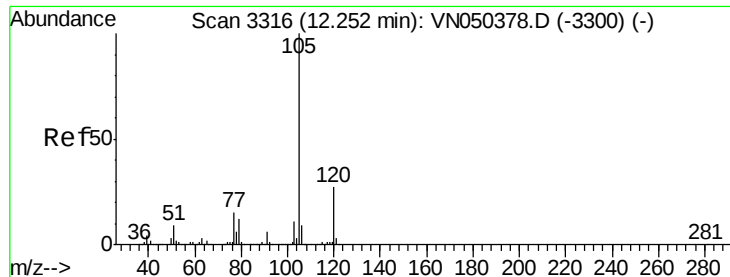
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	27.8	83.3
150	164.7	0.0	348.6



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: 22.19 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion: 105 Resp: 833576

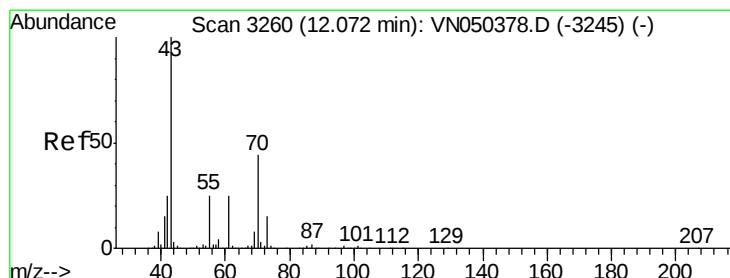
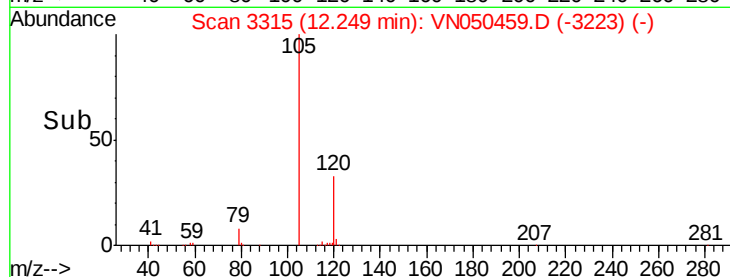
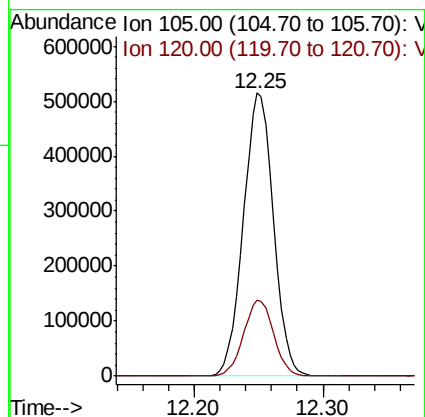
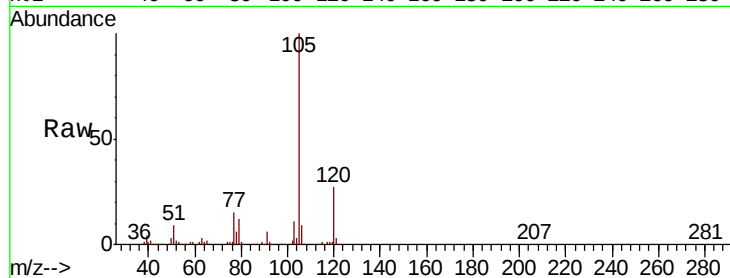
Ion Ratio Lower Upper

105 100

120 26.8 13.3 39.8

Manual Integrations
APPROVED

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8/9/2018 1:32:15 PM



#74

N-ethyl acetate

Concen: 17.52 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Tgt Ion: 43 Resp: 213376

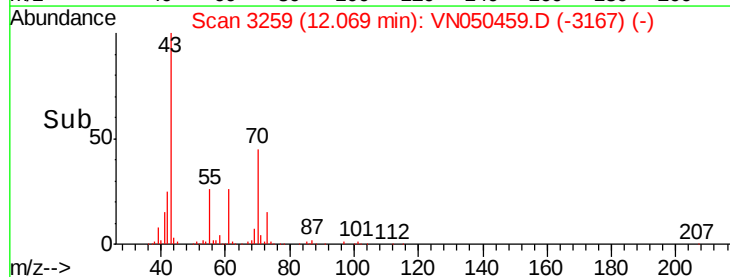
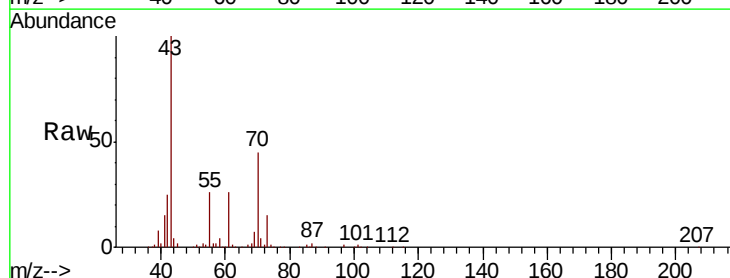
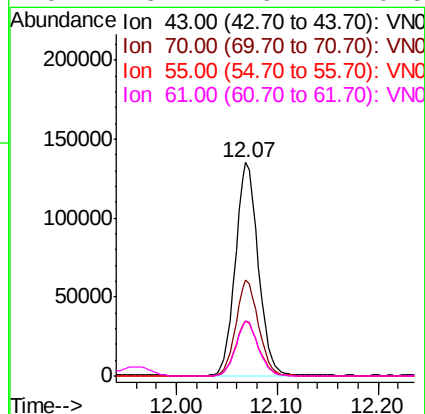
Ion Ratio Lower Upper

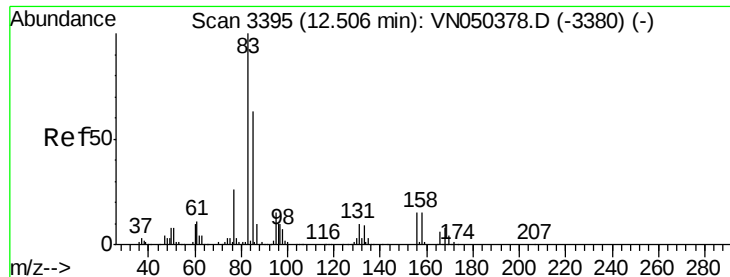
43 100

70 44.8 34.4 51.6

55 26.0 20.8 31.2

61 25.2 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 18.42 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

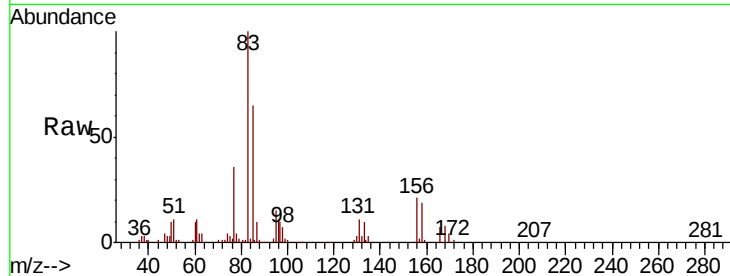
ClientSampleId :

VN0808WBSD01

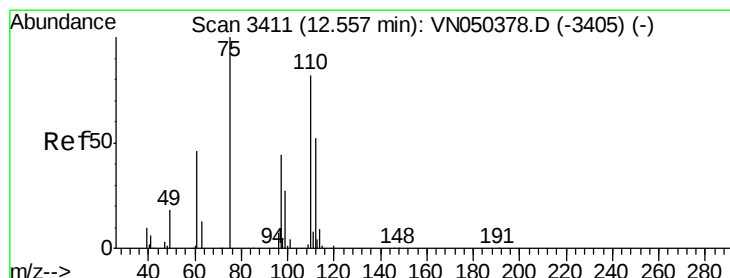
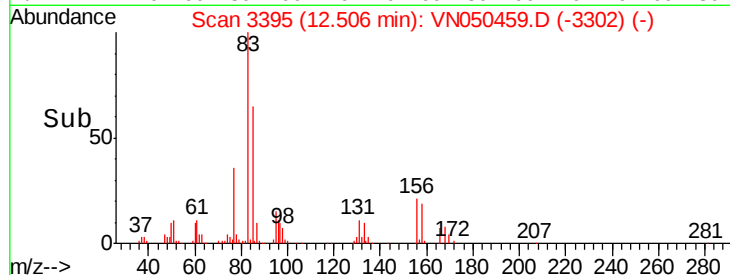
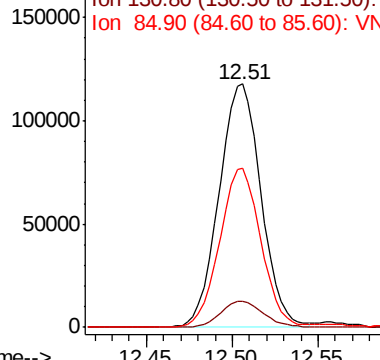
Tot Ion:	83	Resp:	199631
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.1	15.3
85	63.9	32.3	96.8

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN050378.D (-3380) (-)



#76

1,2,3-Trichloropropane

Concen: 17.97 ug/l m

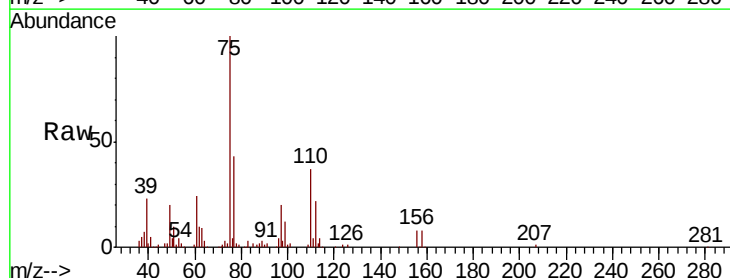
RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

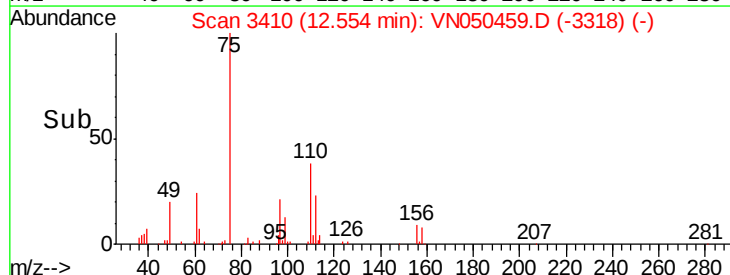
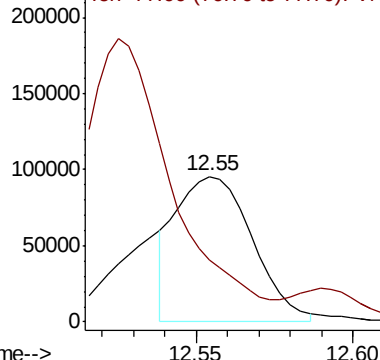
Lab File: VN050459.D

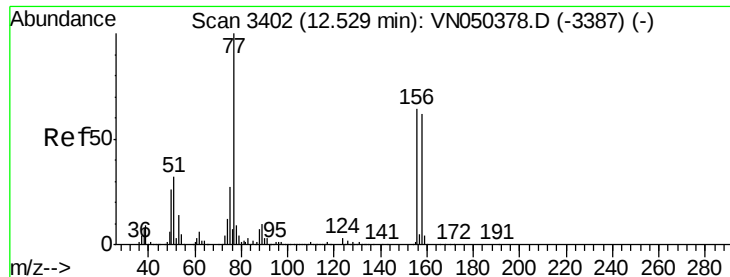
Acq: 8 Aug 2018 15:14

Tgt Ion:	75	Resp:	162766
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050378.D (-3405) (-)





#77

Bromobenzene

Concen: 21.22 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

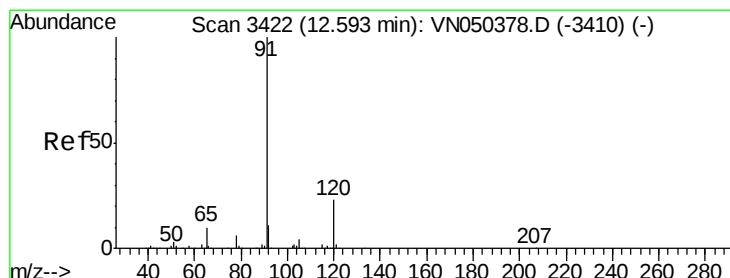
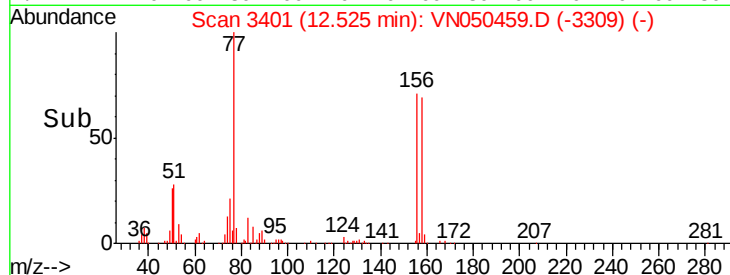
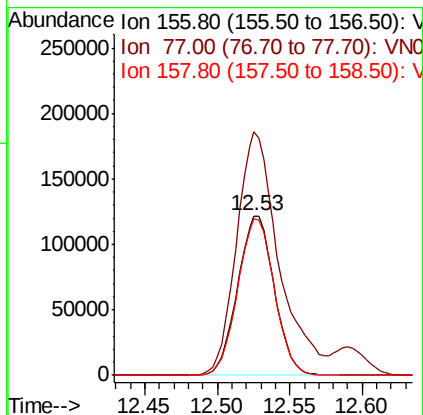
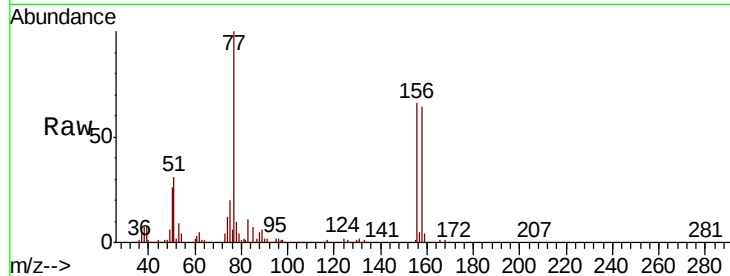
ClientSampleId :

VN0808WBSD01

Tot Ion:	156	Resp:	213599
Ion Ratio	Lower	Upper	
156	100		
77	176.6	91.7	275.1
158	97.8	48.9	146.6

Manual Integrations
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#78

n-propylbenzene

Concen: 21.42 ug/l

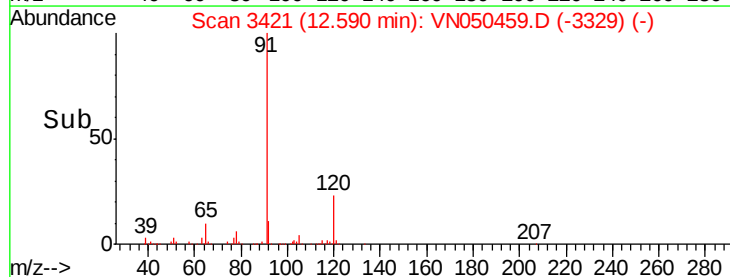
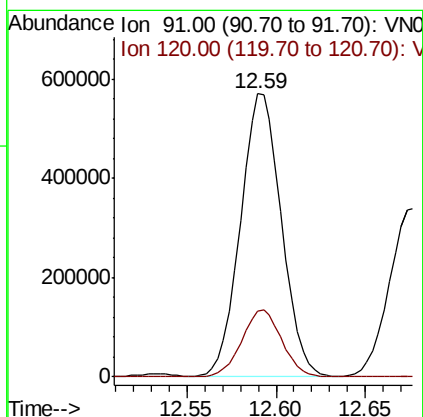
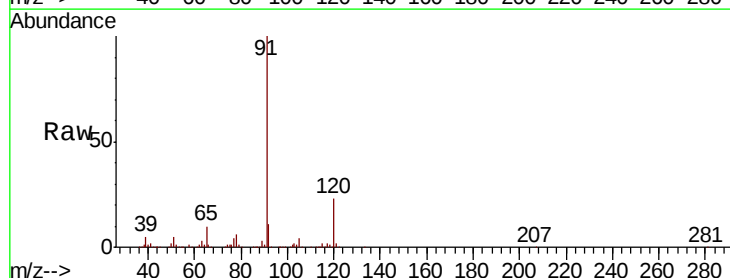
RT: 12.59 min Scan# 3421

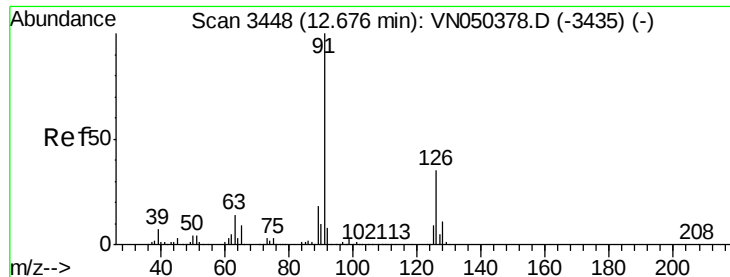
Delta R.T. -0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Tgt Ion:	91	Resp:	910732
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.6	34.7





#79

2-Chlorotoluene

Concen: 21.46 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampled :

VN0808WBSD01

Tot Ion: 91 Resp: 563461

Ion Ratio Lower Upper

91 100

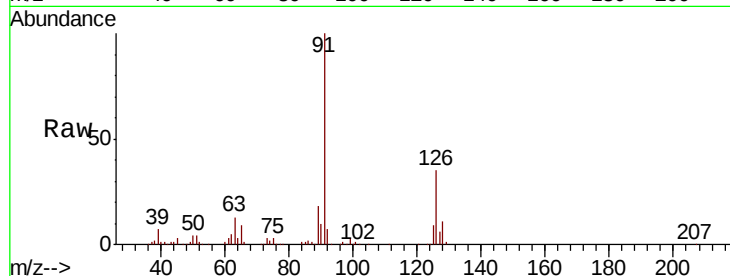
126 35.7 17.6 52.8

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN050378.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN050378.D (-3435) (-)

500000

400000

300000

200000

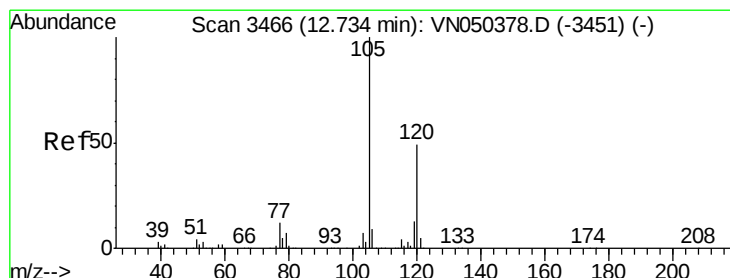
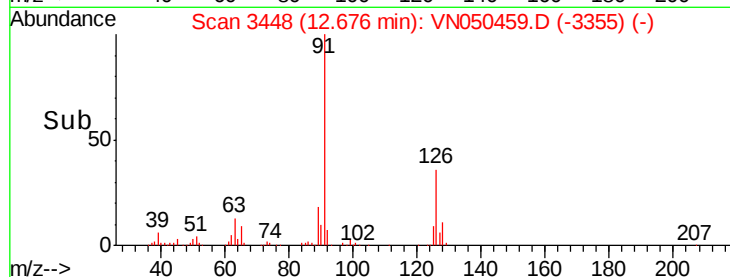
100000

0

12.60 12.65 12.70

12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 22.07 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050459.D

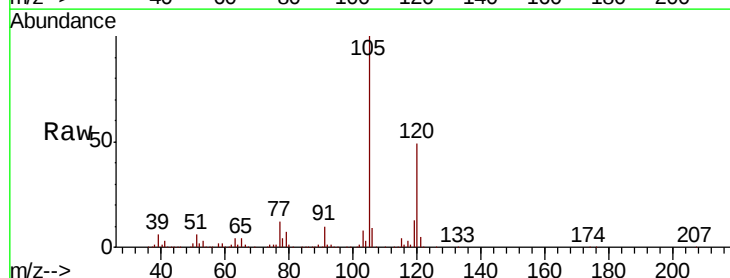
Acq: 8 Aug 2018 15:14

Tgt Ion:105 Resp: 673018

Ion Ratio Lower Upper

105 100

120 49.1 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050378.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN050378.D (-3451) (-)

500000

400000

300000

200000

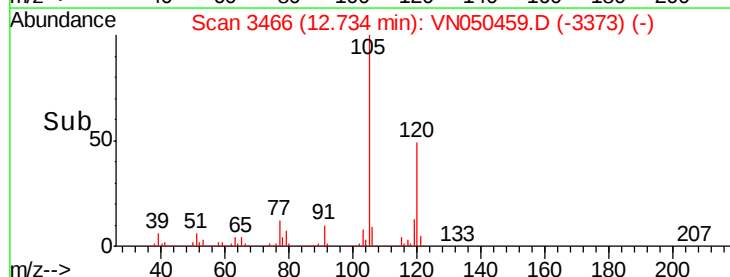
100000

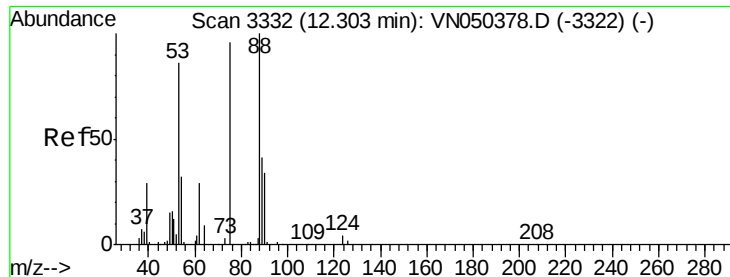
0

12.70 12.80

12.73

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 17.42 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

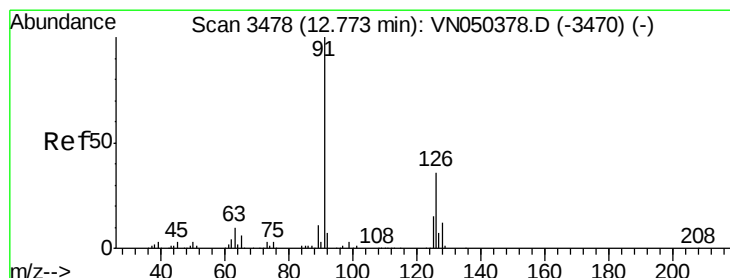
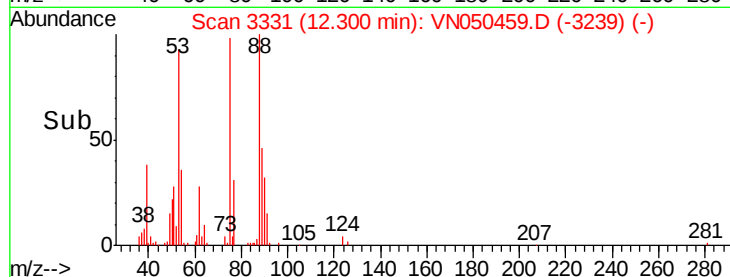
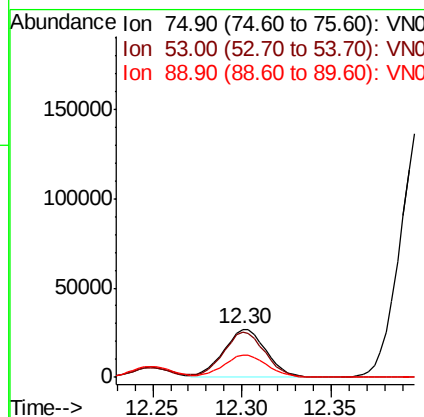
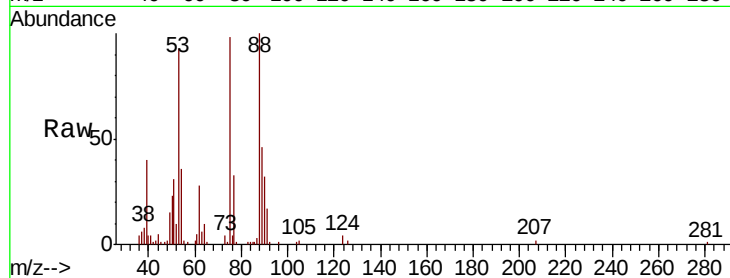
ClientSampleId :

VN0808WBSD01

Tot Ion:	75	Resp:	44901
Ion	Ratio	Lower	Upper
75	100		
53	91.6	73.5	110.3
89	46.9	36.0	54.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.49 ug/l

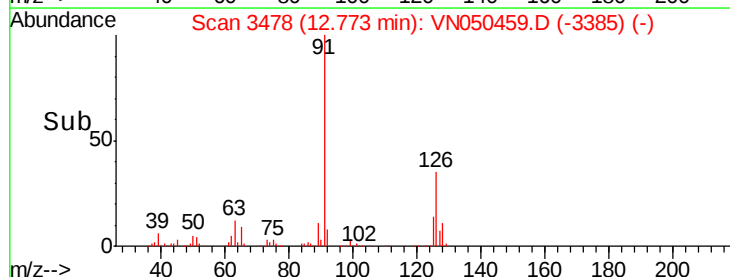
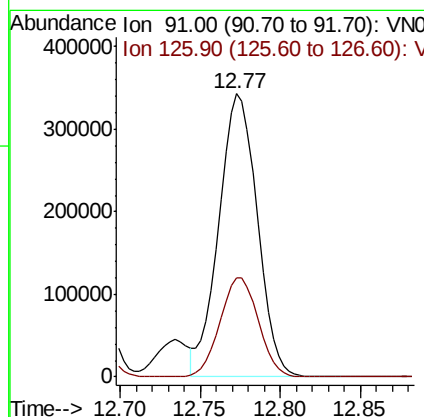
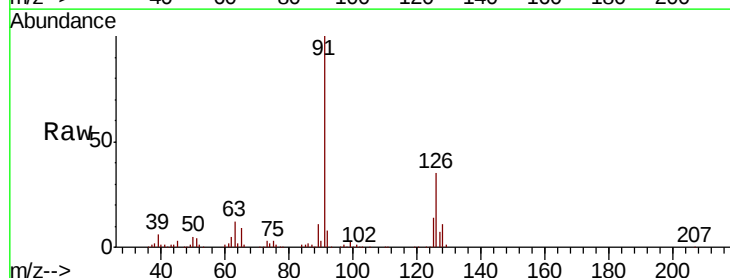
RT: 12.77 min Scan# 3478

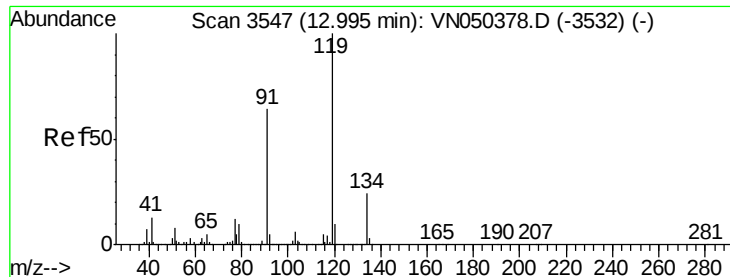
Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Tgt Ion:	91	Resp:	562882
Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.0	51.0





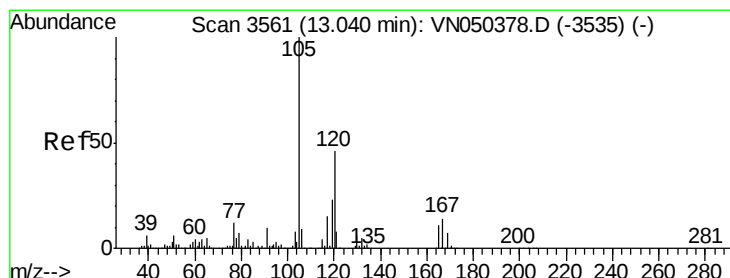
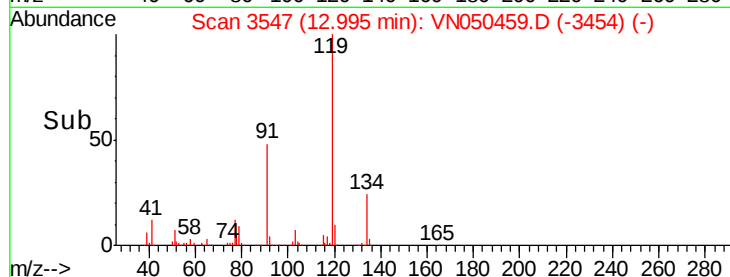
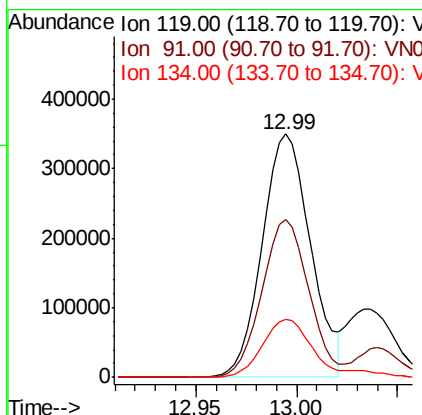
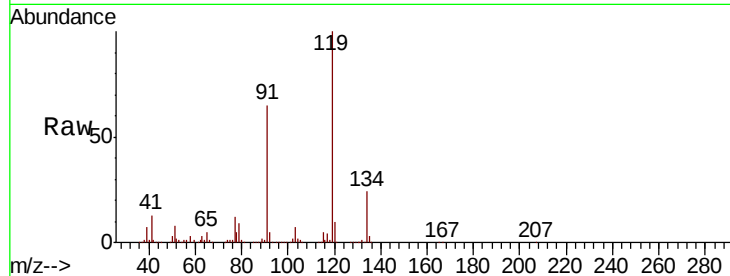
#83
tert-Butylbenzene
Concen: 21.97 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.2	32.1	96.3
134	26.1	13.2	39.5

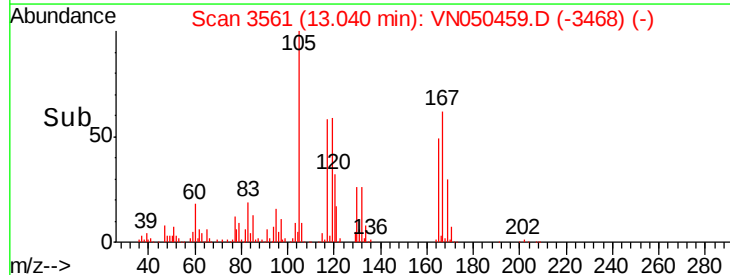
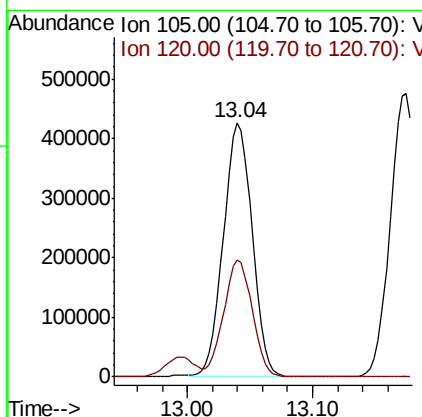
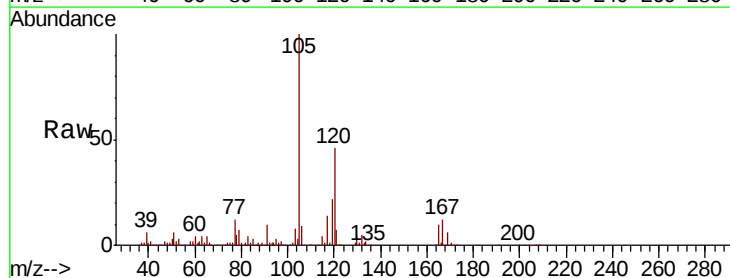
Manual Integrations
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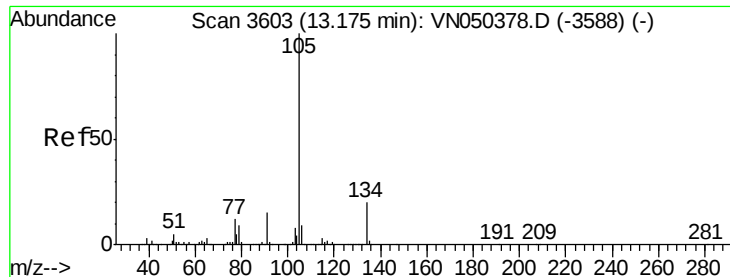
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 22.04 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.9	68.7





#85

sec-Butylbenzene

Concen: 21.12 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

VN0808WBSD01

Tot Ion:105 Resp: 748713

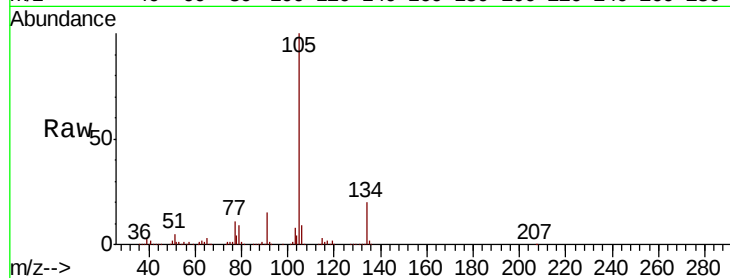
Ion Ratio Lower Upper

105 100

134 20.0 10.1 30.1

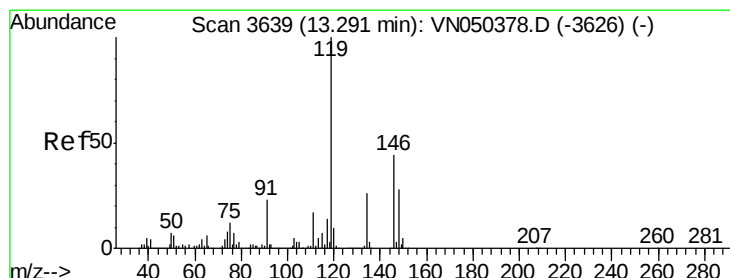
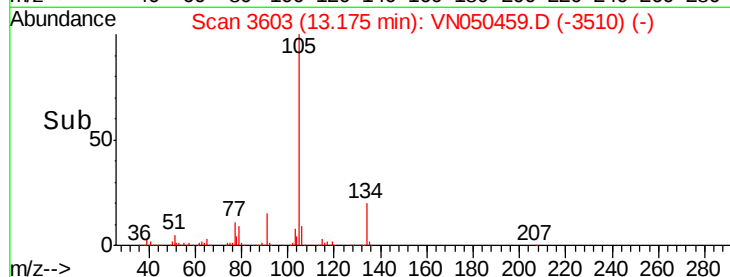
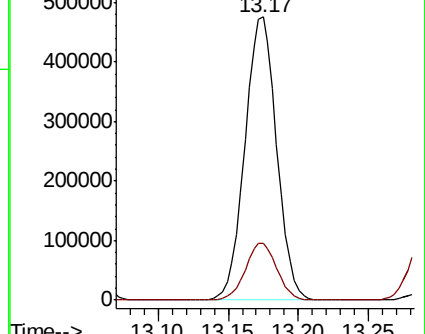
Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.04 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

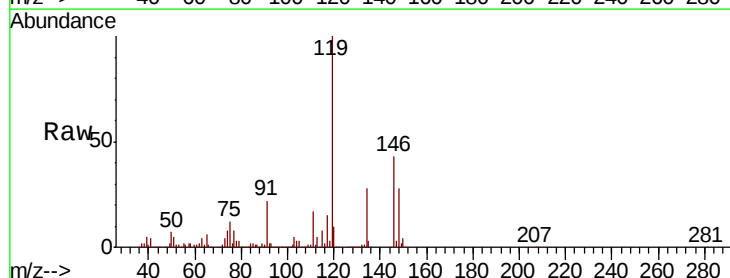
Tgt Ion:119 Resp: 639187

Ion Ratio Lower Upper

119 100

134 27.4 13.3 39.8

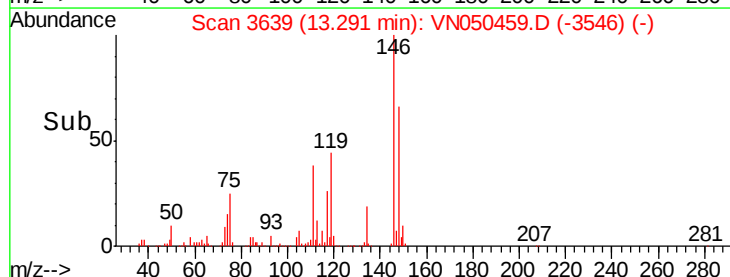
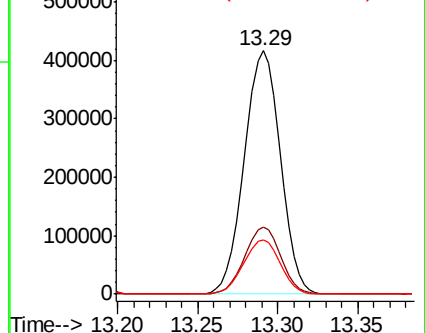
91 22.4 11.4 34.2

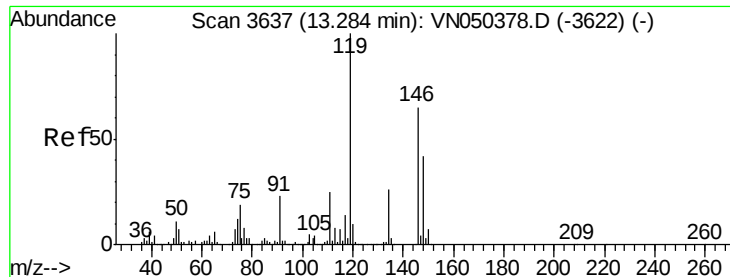


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





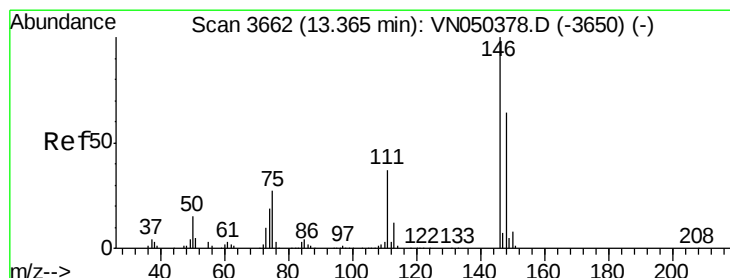
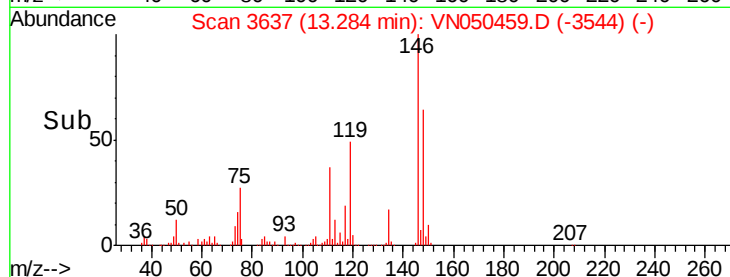
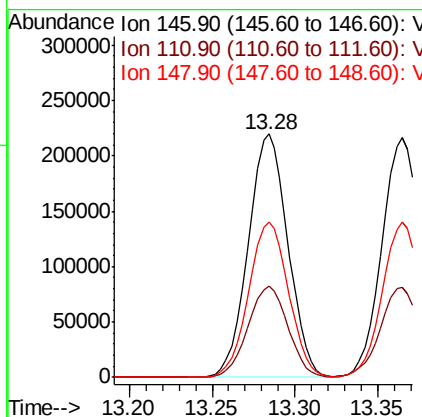
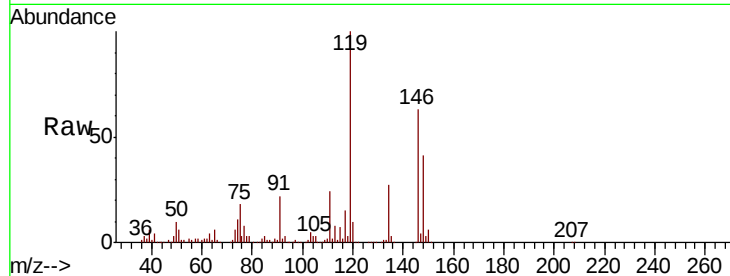
#87
 1,3-Dichlorobenzene
 Concen: 20.30 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.8	56.4
148	64.3	31.9	95.9

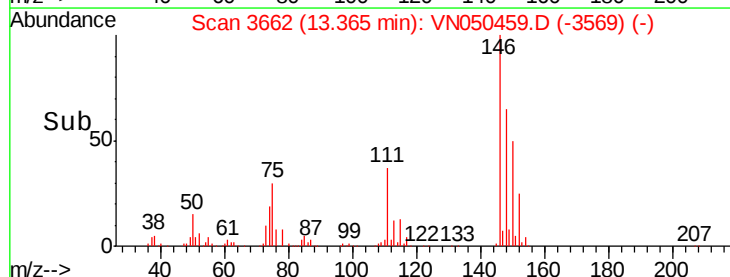
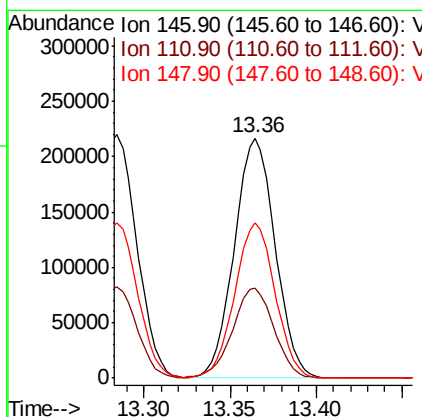
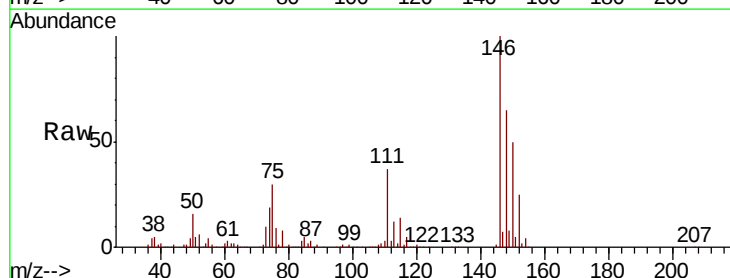
Manual Integrations
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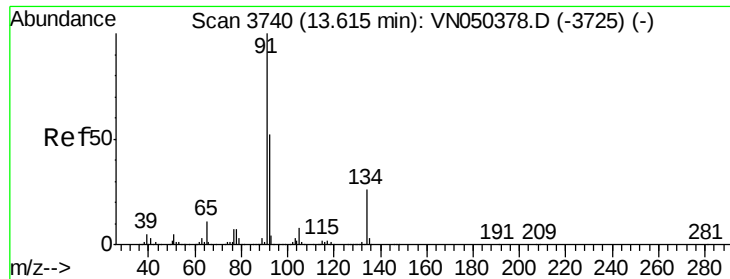
MMDadoda
 8/9/2018 1:32:15 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.95 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.3	54.9
148	63.9	31.9	95.9





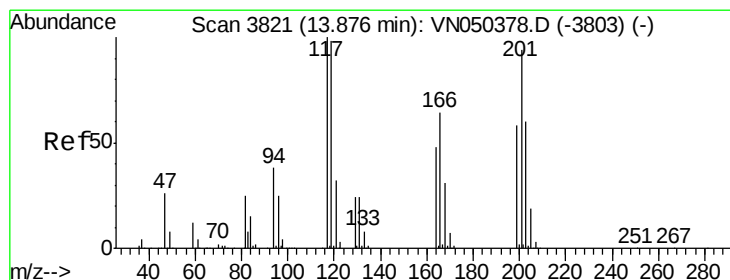
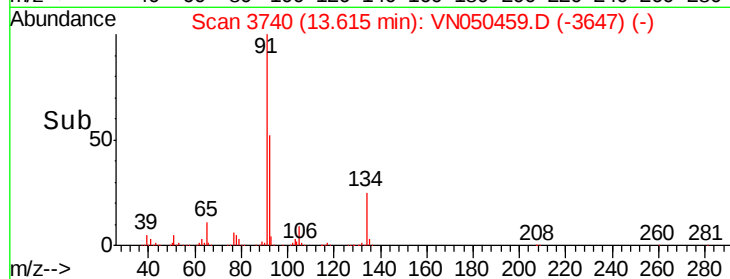
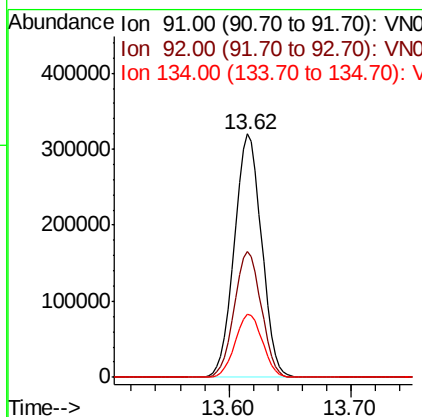
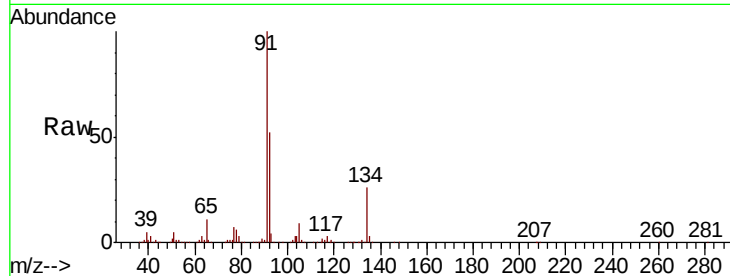
#89
n-Butylbenzene
Concen: 19.15 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :
VN0808WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.2	25.8	77.4
134	26.1	12.8	38.4

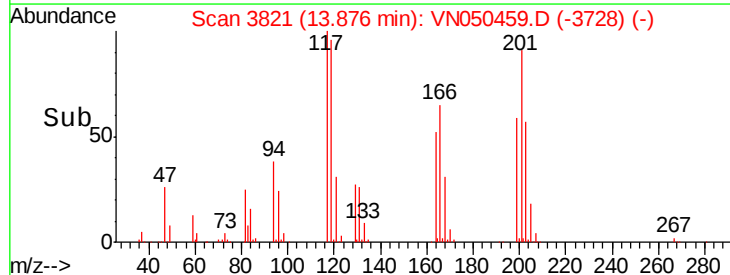
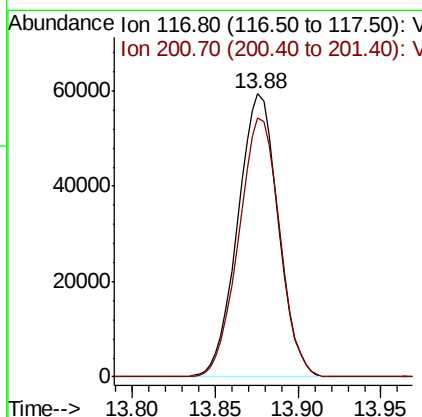
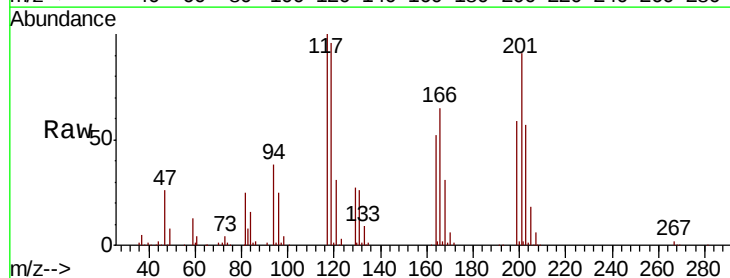
Manual Integrations
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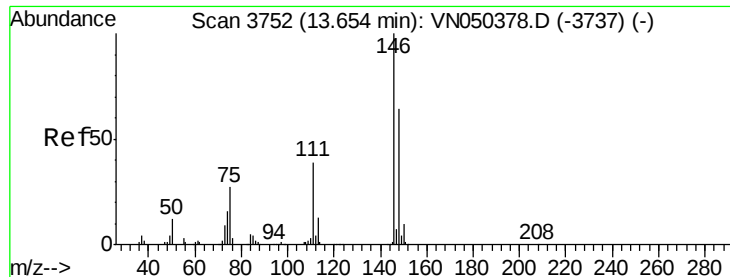
MMDadoda
8/9/2018 1:32:15 PM



#90
Hexachloroethane
Concen: 18.71 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050459.D
Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.5	45.6	136.8





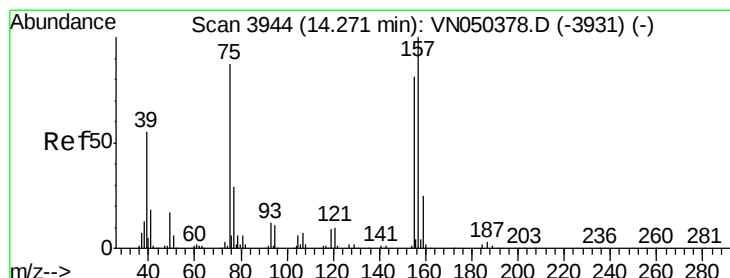
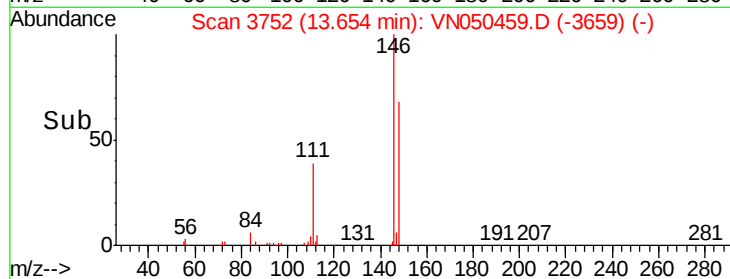
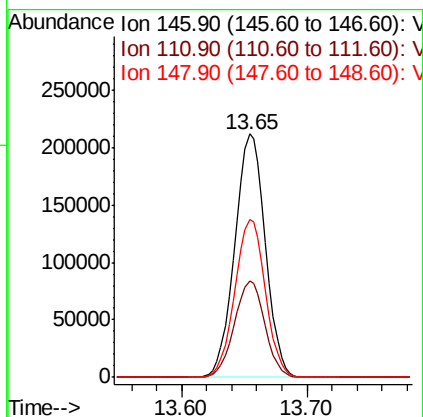
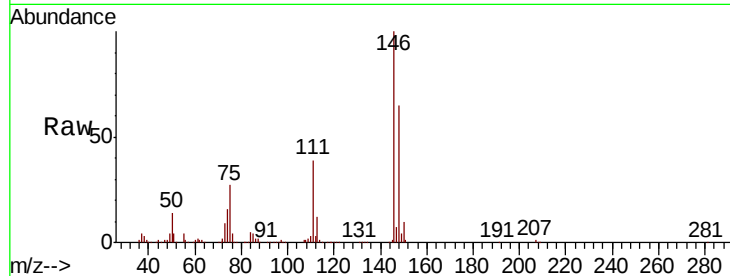
#91
 1,2-Dichlorobenzene
 Concen: 19.88 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0808WBSD01

Tot Ion:	146	Resp:	357189
Ion Ratio	Lower	Upper	
146	100		
111	39.7	19.6	58.7
148	64.9	32.1	96.3

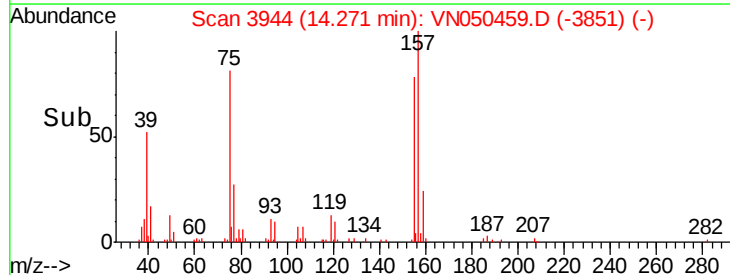
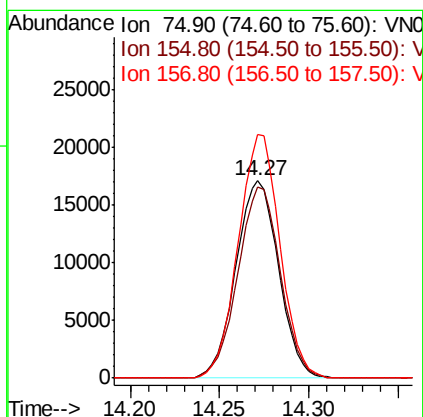
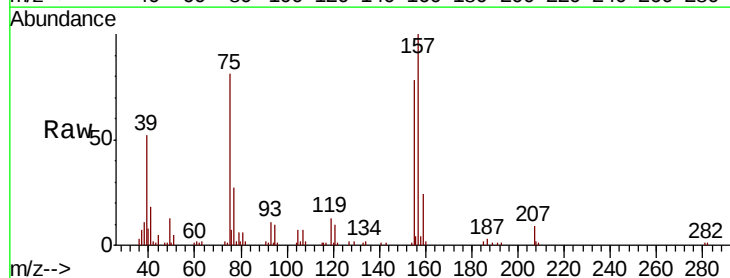
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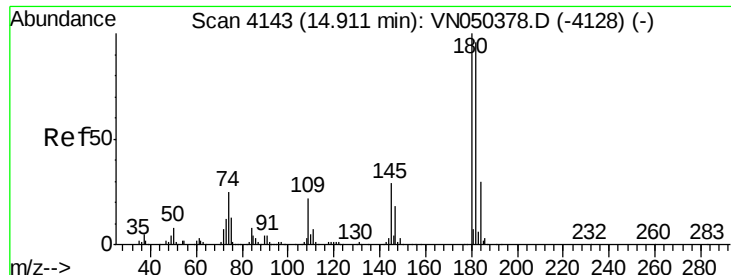
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 15.50 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Tgt Ion:	75	Resp:	28530
Ion Ratio	Lower	Upper	
75	100		
155	96.6	44.8	134.4
157	120.4	57.2	171.6





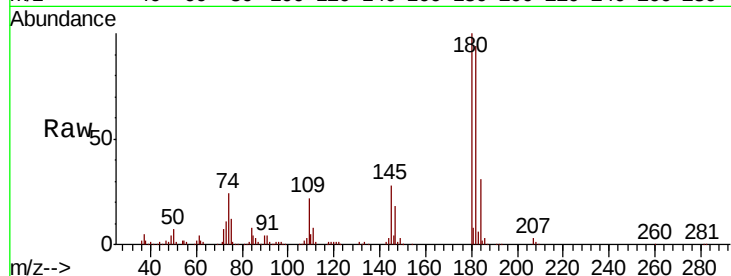
#93
 1,2,4-Trichlorobenzene
 Concen: 18.56 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0808WBSD01

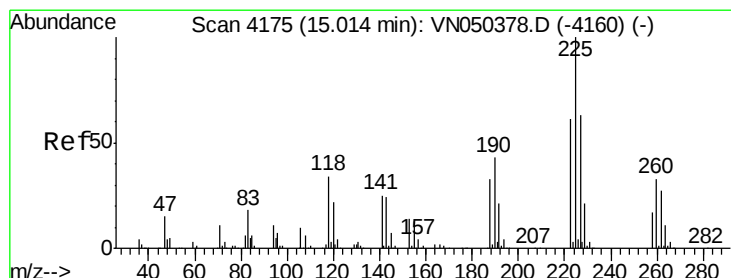
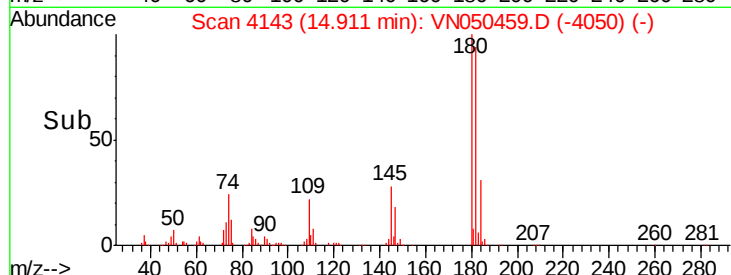
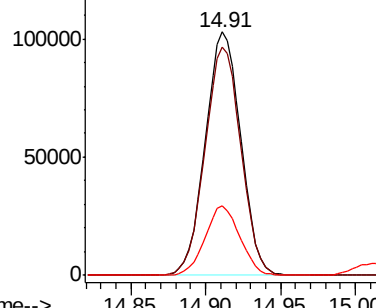
Tot Ion	Ratio	Resp	Lower	Upper
180	100	169851		
182	94.8	46.7	140.1	
145	28.1	13.8	41.4	

Manual Integrations
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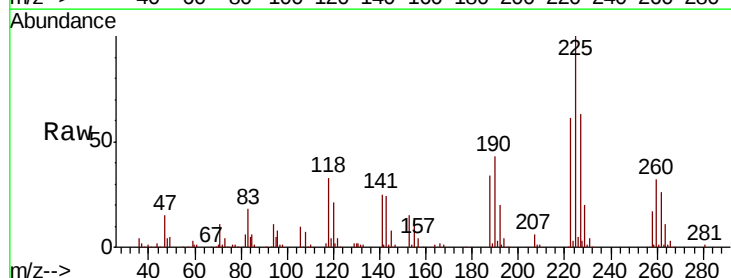


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

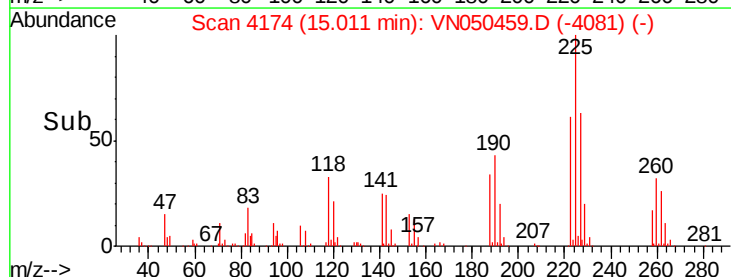
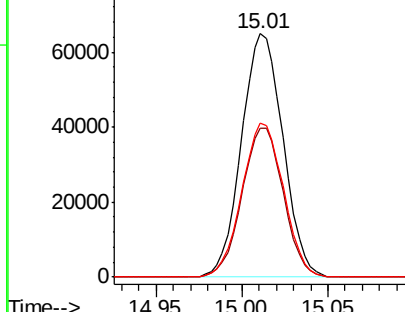


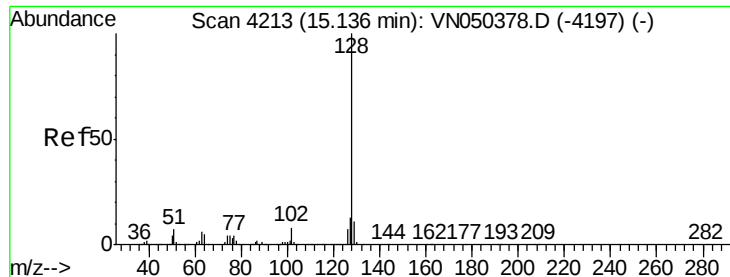
#94
 Hexachlorobutadiene
 Concen: 20.82 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050459.D
 Acq: 8 Aug 2018 15:14

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	108876		
223	60.9	31.4	94.2	
227	63.2	32.1	96.5	



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





#95

Naphthalene

Concen: 17.46 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Instrument :

MSVOA_N

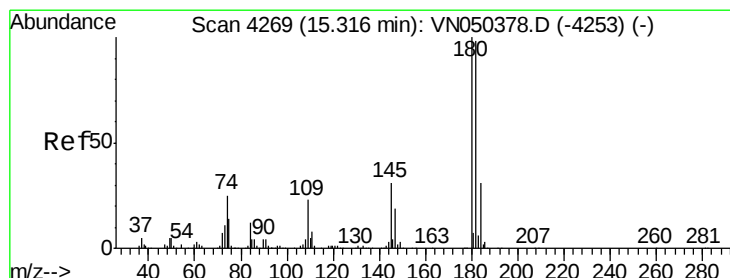
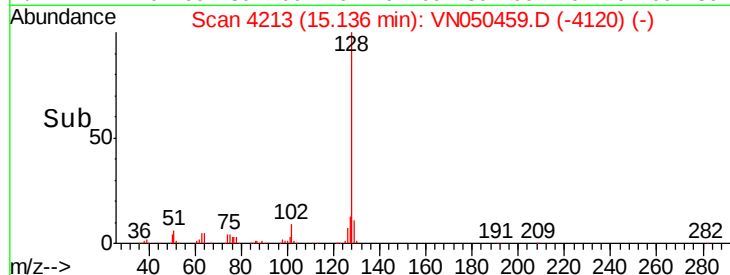
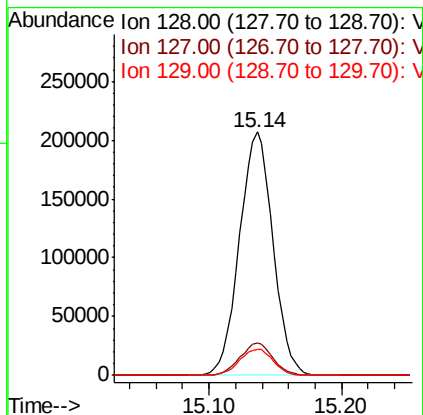
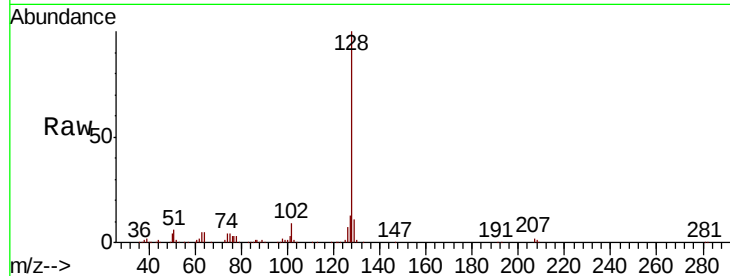
ClientSampleId :

VN0808WBSD01

Tot Ion:	128	Resp:	361612
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.4	15.6
129	10.9	8.8	13.2

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#96

1,2,3-Trichlorobenzene

Concen: 17.93 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050459.D

Acq: 8 Aug 2018 15:14

Tgt Ion:	180	Resp:	165914
Ion Ratio	Lower	Upper	
180	100		
182	96.3	48.1	144.4
145	30.5	15.3	45.9

