

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053021.D
 Acq On : 19 Dec 2018 19:43
 Operator : MD\SY
 Sample : VN1219MBSD01
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 26 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1219MBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 9:35:11 AM

Quant Time: Dec 20 06:43:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1139273	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1764749	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1544021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	662567	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	596222	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	
35) Dibromofluoromethane	7.59	113	461287	57.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.44%	
50) Toluene-d8	10.09	98	2164388	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.40	95	717395	47.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	228927	19.854	ug/l	98
3) Chloromethane	2.06	50	265477	19.000	ug/l	99
4) Vinyl Chloride	2.19	62	278285	19.666	ug/l	98
5) Bromomethane	2.58	94	176778	18.031	ug/l	98
6) Chloroethane	2.71	64	162508	19.391	ug/l	99
7) Trichlorofluoromethane	3.03	101	355387	20.160	ug/l	99
8) Diethyl Ether	3.41	74	140782	21.169	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	223984	19.928	ug/l	97
10) Methyl Iodide	3.96	142	303682	19.240	ug/l	99
11) Tert butyl alcohol	4.77	59	72083	102.182	ug/l	99
12) 1,1-Dichloroethene	3.74	96	217262	20.008	ug/l	99
13) Acrolein	3.61	56	74202	116.005	ug/l	99
14) Allyl chloride	4.33	41	343234	20.406	ug/l	95
15) Acrylonitrile	4.99	53	394640	100.698	ug/l	99
16) Acetone	3.82	43	250639	110.568	ug/l	94
17) Carbon Disulfide	4.06	76	612219	17.288	ug/l	100
18) Methyl Acetate	4.33	43	206016	20.618	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	603116	20.755	ug/l	99
20) Methylene Chloride	4.55	84	247003	19.975	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	233038	19.974	ug/l	97
22) Diisopropyl ether	5.95	45	754562	21.017	ug/l	97
23) Vinyl Acetate	5.90	43	2168655	105.046	ug/l	99
24) 1,1-Dichloroethane	5.85	63	432220	20.260	ug/l	98
25) 2-Butanone	6.83	43	415827	109.304	ug/l	98
26) 2,2-Dichloropropane	6.83	77	267135	16.403	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	267111	20.223	ug/l	97
28) Bromochloromethane	7.19	49	186341	20.157	ug/l	94
29) Tetrahydrofuran	7.21	42	293439	103.275	ug/l	97
30) Chloroform	7.37	83	421509	20.113	ug/l	100
31) Cyclohexane	7.66	56	418424	20.287	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	348080	19.497	ug/l	99
36) 1,1-Dichloropropene	7.80	75	329531	19.455	ug/l	100
37) Ethyl Acetate	6.93	43	197217	20.856	ug/l	98
38) Carbon Tetrachloride	7.78	117	294863	18.992	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	391894	19.045	ug/l	98
40) Benzene	8.04	78	1006417	19.975	ug/l	99
41) Methacrylonitrile	7.17	41	117067	21.427	ug/l	94
42) 1,2-Dichloroethane	8.12	62	295048	19.823	ug/l	99
43) Isopropyl Acetate	8.16	43	380474	20.169	ug/l	99
44) Trichloroethene	8.84	130	282858	19.410	ug/l	96
45) 1,2-Dichloropropane	9.12	63	264746	20.174	ug/l	100
46) Dibromomethane	9.21	93	151043	19.757	ug/l	98
47) Bromodichloromethane	9.40	83	313077	19.265	ug/l	100
48) Methyl methacrylate	9.20	41	185904	20.260	ug/l	100
49) 1,4-Dioxane	9.20	88	43233	372.476	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	963464	105.212	ug/l	99
52) Toluene	10.16	92	611167	19.570	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	310971	18.198	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	372467	18.989	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	215737	19.802	ug/l	99
56) Ethyl methacrylate	10.43	69	292550	20.287	ug/l	97
57) 1,3-Dichloropropane	10.71	76	377161	20.188	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	819089	103.463	ug/l	98
59) 2-Hexanone	10.75	43	637684	102.924	ug/l	99
60) Dibromochloromethane	10.90	129	232554	18.648	ug/l	100
61) 1,2-Dibromoethane	11.00	107	215888	19.511	ug/l	99
64) Tetrachloroethene	10.63	164	327591	19.587	ug/l	99
65) Chlorobenzene	11.43	112	674234	19.699	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	232213	19.510	ug/l	99
67) Ethyl Benzene	11.51	91	1166381	19.816	ug/l	100
68) m/p-Xylenes	11.62	106	907572	40.559	ug/l	99
69) o-Xylene	11.95	106	419700	19.546	ug/l	98
70) Styrene	11.96	104	690036	19.708	ug/l	100
71) Bromoform	12.13	173	151076	17.570	ug/l #	100
73) Isopropylbenzene	12.25	105	1120049	21.606	ug/l	100
74) N-amyl acetate	12.07	43	320544	22.271	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	229961	22.611	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	207651m	18.617	ug/l	
77) Bromobenzene	12.53	156	423208	31.406	ug/l	60
78) n-propylbenzene	12.59	91	1233091	20.885	ug/l	99
79) 2-Chlorotoluene	12.67	91	722618	19.746	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	875291	20.715	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	62848	18.161	ug/l	99
82) 4-Chlorotoluene	12.77	91	731629	20.423	ug/l	100
83) tert-Butylbenzene	12.99	119	760941	20.362	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	875592	20.613	ug/l	100
85) sec-Butylbenzene	13.17	105	1002258	19.828	ug/l	100
86) p-Isopropyltoluene	13.29	119	848526	19.428	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	466718	19.569	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	463449	19.188	ug/l	99
89) n-Butylbenzene	13.62	91	679203	18.076	ug/l	99
90) Hexachloroethane	13.87	117	119779	17.871	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	438093	19.517	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	33674	19.149	ug/l	97

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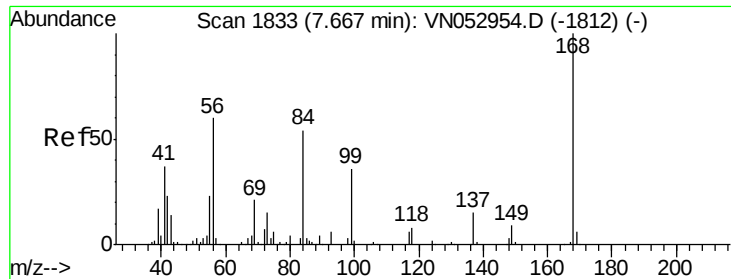
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	233157	19.968	ug/l	99
94) Hexachlorobutadiene	15.01	225	126798	18.801	ug/l	99
95) Naphthalene	15.13	128	545650	21.612	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	213436	20.236	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleID :

VN1219MBSD01

Tot Ion:168 Resp: 1139273

Ion Ratio Lower Upper

168 100

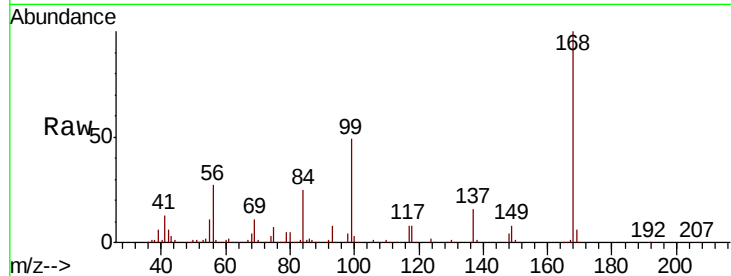
99 48.9 40.2 60.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

300000

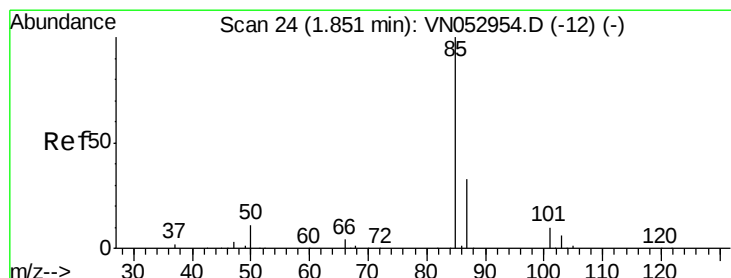
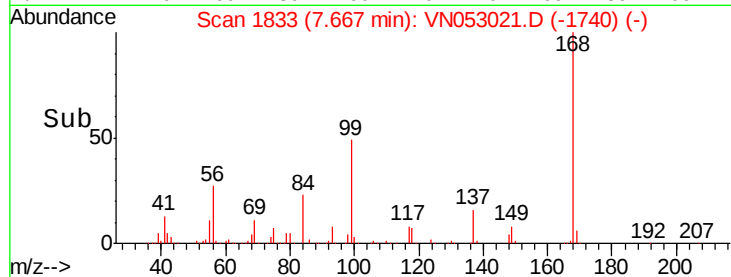
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.854 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053021.D

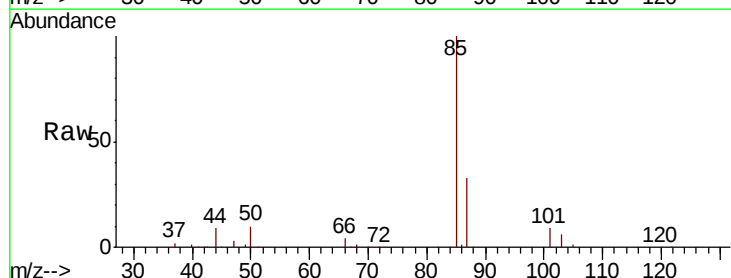
Acq: 19 Dec 2018 19:43

Tgt Ion: 85 Resp: 228927

Ion Ratio Lower Upper

85 100

87 33.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

200000

150000

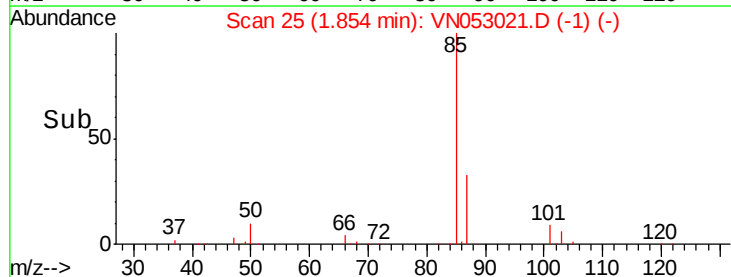
100000

50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.000 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD01

Tot Ion: 50 Resp: 265477

Ion Ratio Lower Upper

50 100

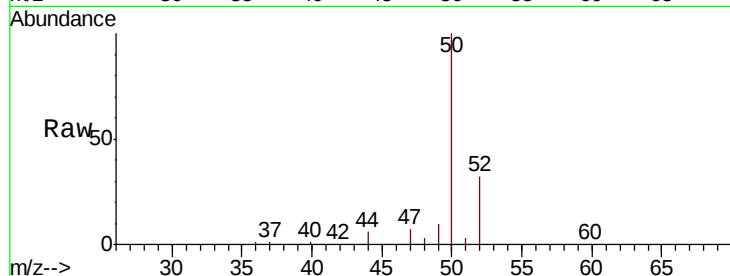
52 32.3 26.2 39.4

Manual Integrations

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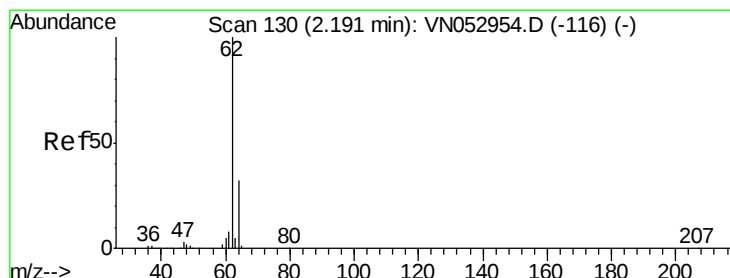
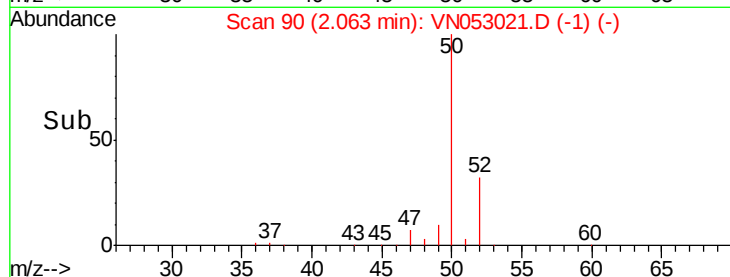
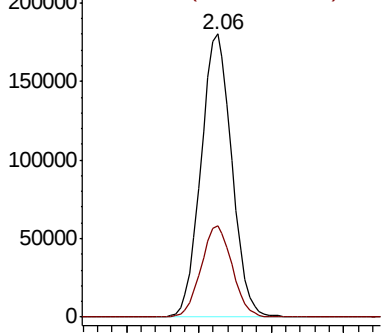
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 19.666 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053021.D

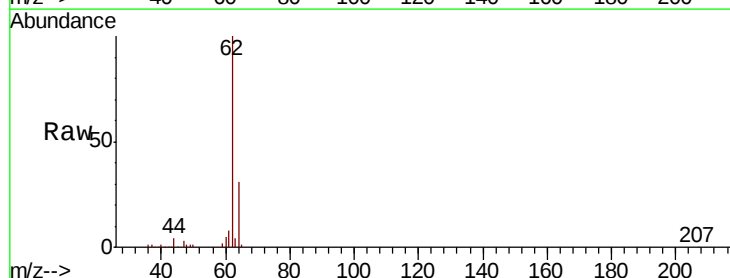
Acq: 19 Dec 2018 19:43

Tgt Ion: 62 Resp: 278285

Ion Ratio Lower Upper

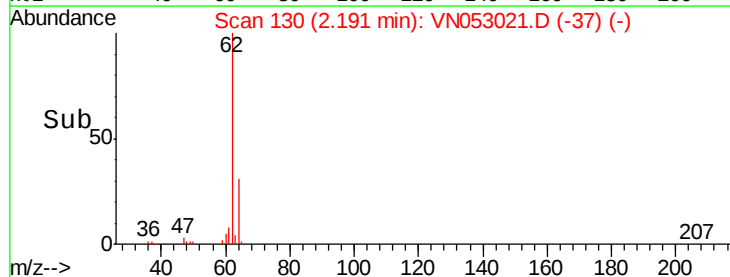
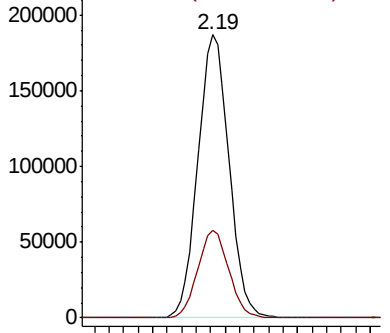
62 100

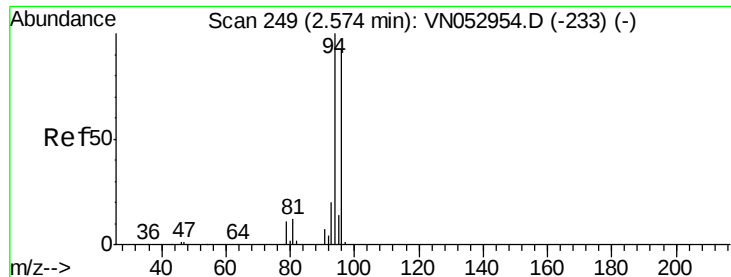
64 30.8 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 18.031 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN053021.D

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Instrument :

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VN1219MBSD01

Tot Ion: 94 Resp: 176778

Ion Ratio Lower Upper

94 100

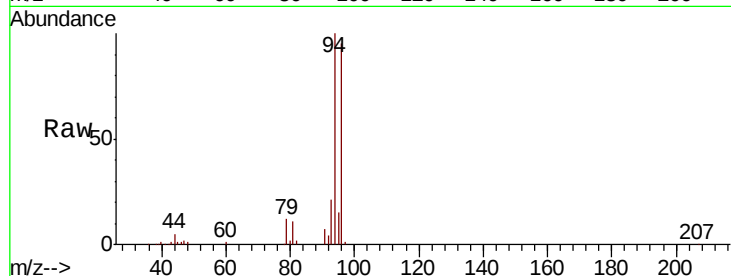
96 95.4 75.0 112.4

Manual Integrations

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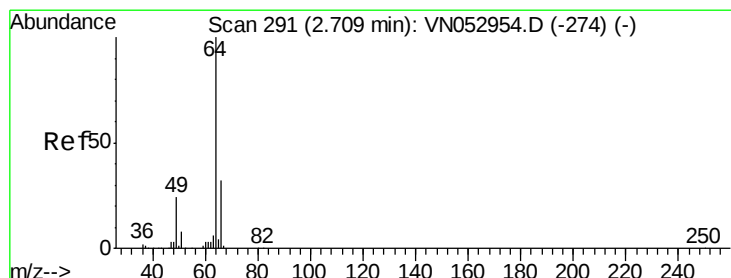
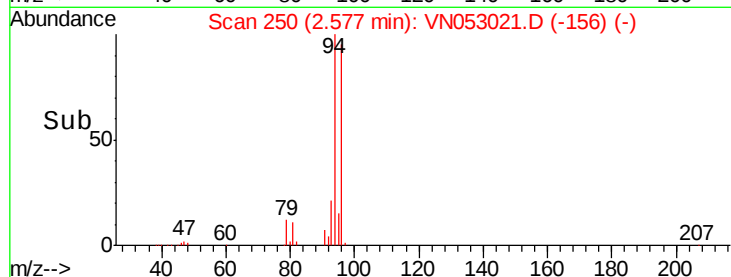
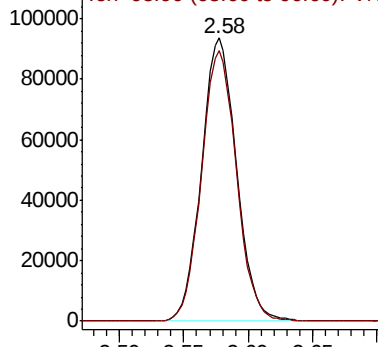
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 19.391 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN053021.D

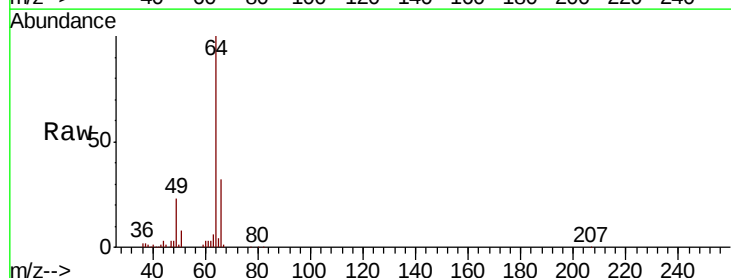
Acq: 19 Dec 2018 19:43

Tgt Ion: 64 Resp: 162508

Ion Ratio Lower Upper

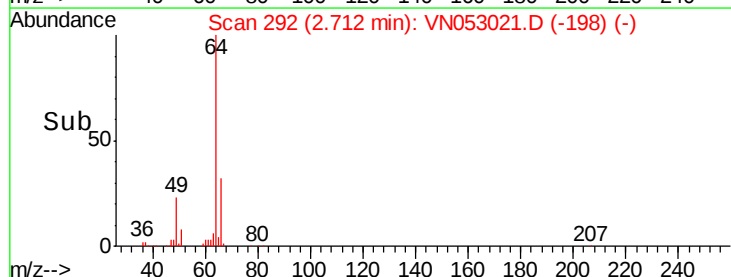
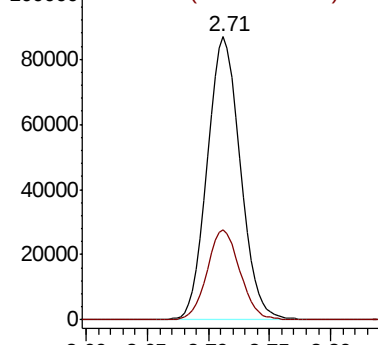
64 100

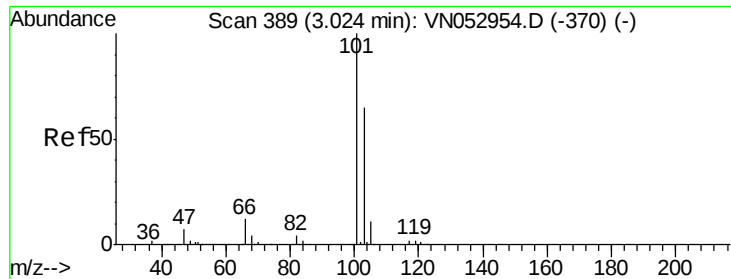
66 32.0 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

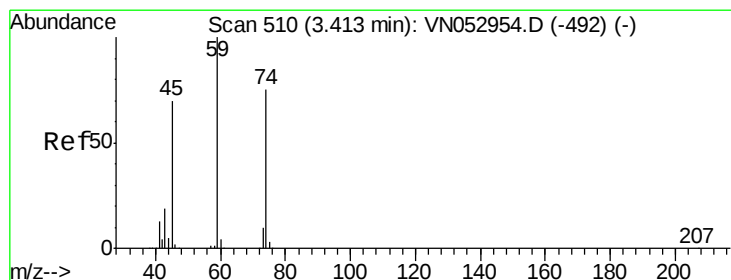
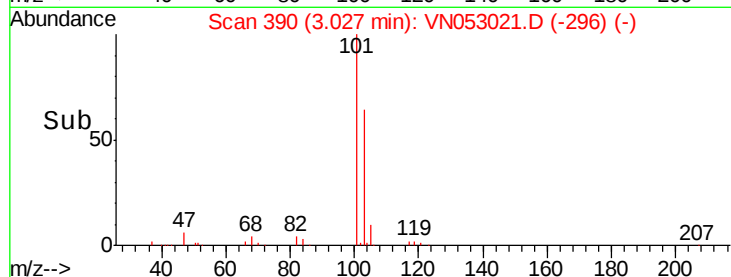
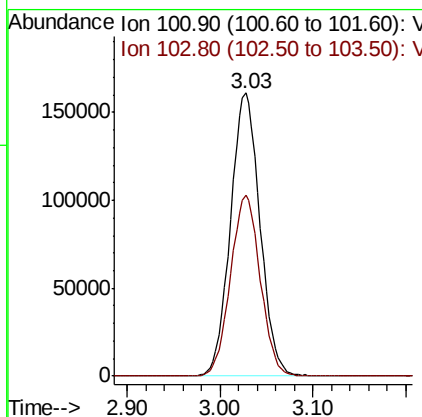
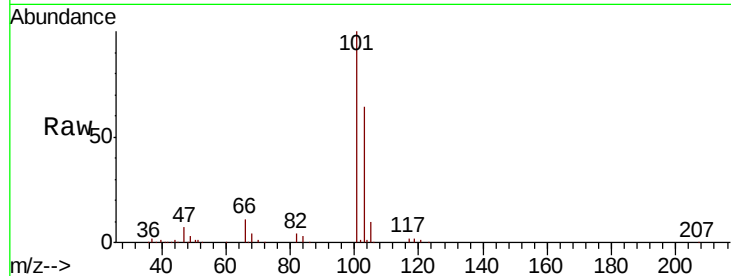
Trichlorofluoromethane
 Concen: 20.160 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
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 VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.8	77.6

Manual Integrations
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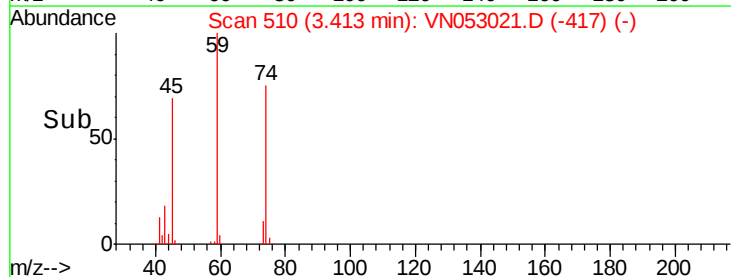
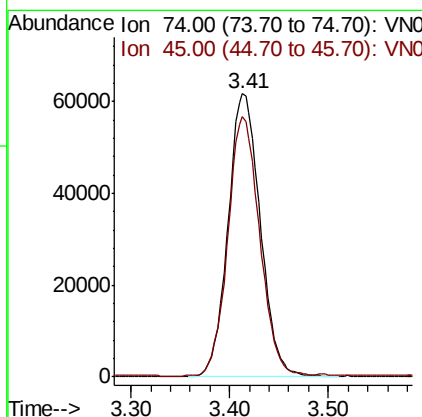
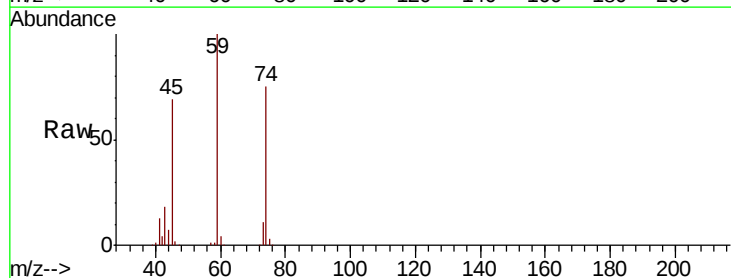
MMDadoda
 12/20/2018 9:35:11 AM

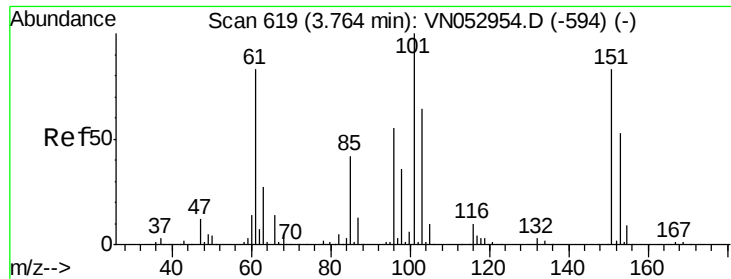


#8

Diethyl Ether
 Concen: 21.169 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
74	100		
45	91.6	49.4	148.0





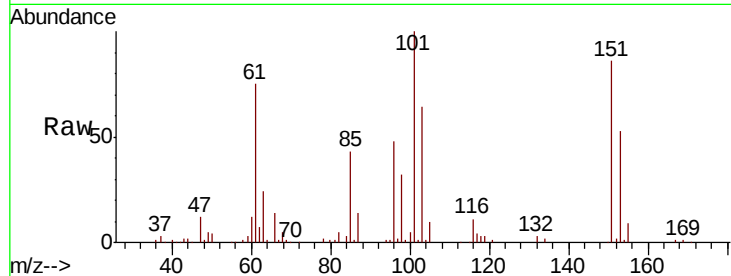
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.928 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBS01

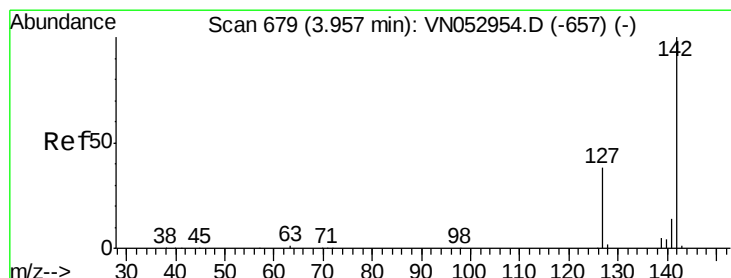
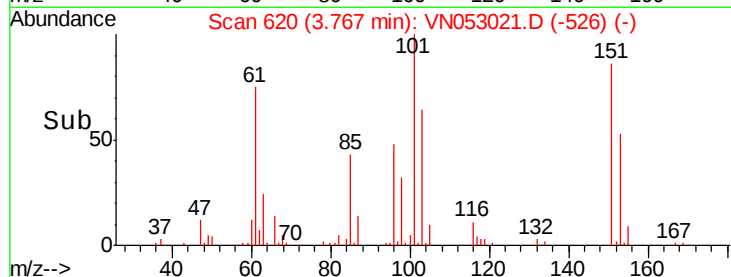
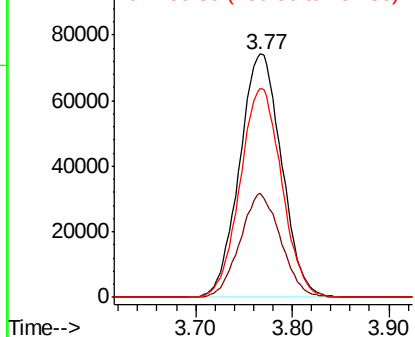
Tot Ion	Ratio	Resp	Lower	Upper
101	100	223984		
85	41.2	33.6	50.4	
151	85.1	65.5	98.3	

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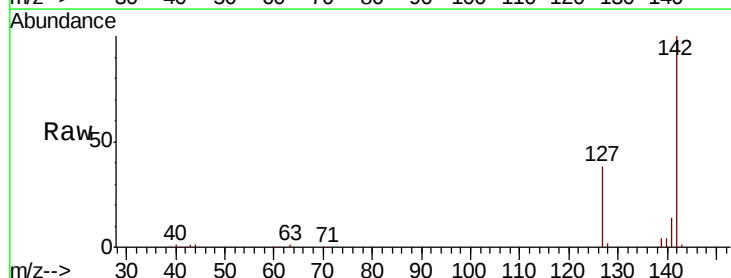


Abundance Ion 100.90 (100.60 to 101.60): V
 100000 Ion 84.90 (84.60 to 85.60): V
 80000 Ion 150.80 (150.50 to 151.50): V

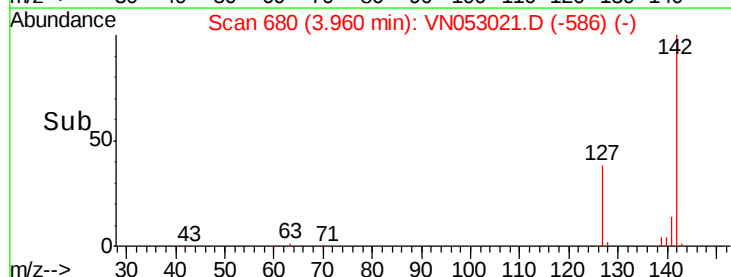
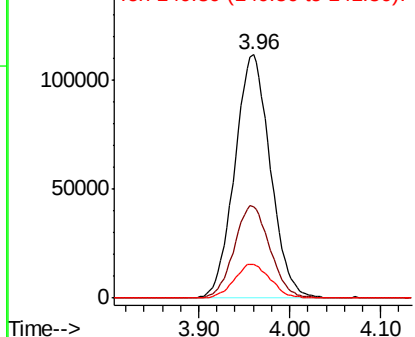


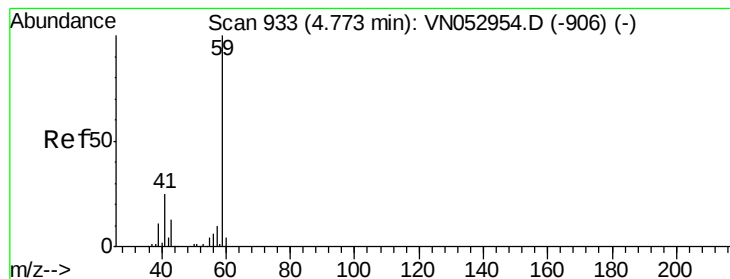
#10
 Methyl Iodide
 Concen: 19.240 ug/l
 RT: 3.96 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	303682		
127	38.1	31.0	46.6	
141	14.1	11.2	16.8	



Abundance Ion 141.80 (141.50 to 142.50): V
 150000 Ion 126.80 (126.50 to 127.50): V
 100000 Ion 140.80 (140.50 to 141.50): V





#11

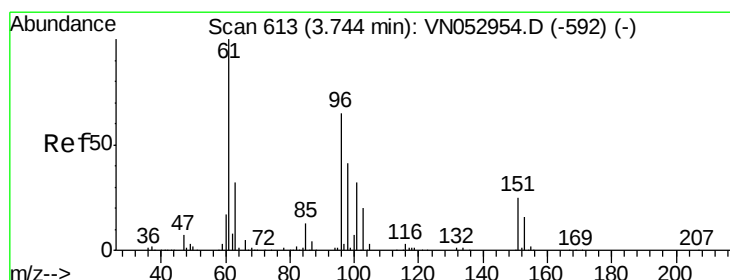
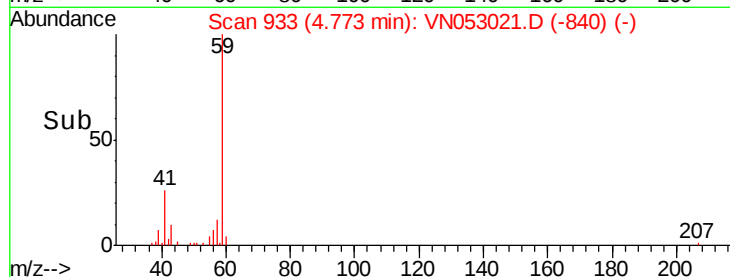
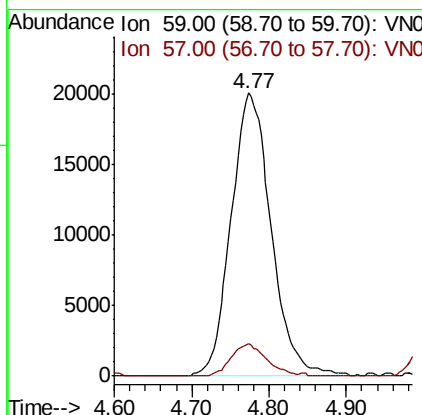
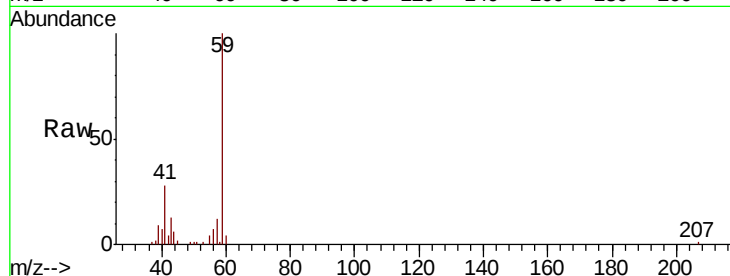
Tert butyl alcohol
Concen: 102.182 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.7	11.5

Manual Integrations
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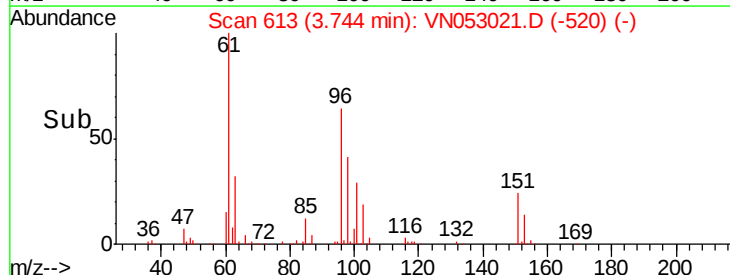
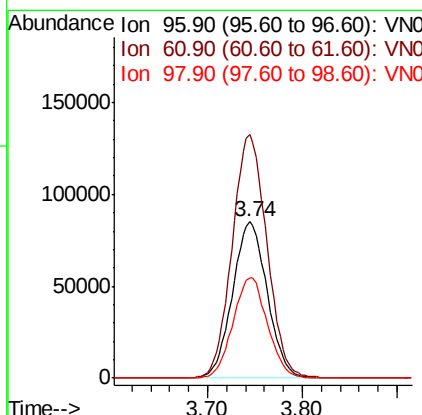
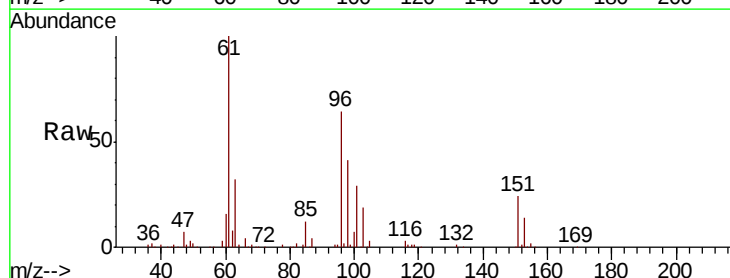
MMDadoda
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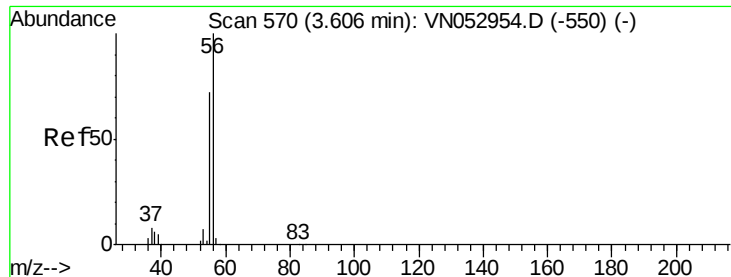


#12

1,1-Dichloroethene
Concen: 20.008 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.9	125.6	188.4
98	64.4	50.6	75.8





#13

Acrolein

Concen: 116.005 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD01

Tot Ion: 56 Resp: 74202

Ion Ratio Lower Upper

56 100

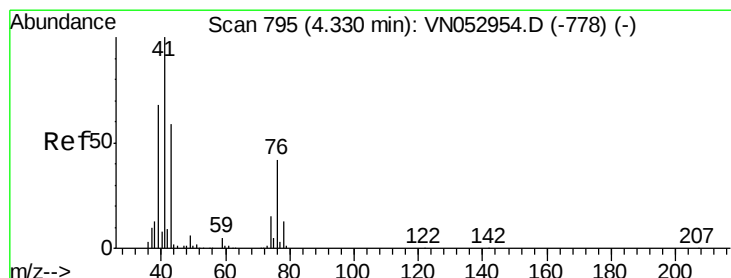
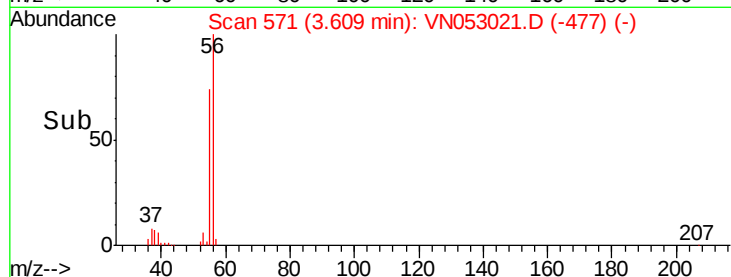
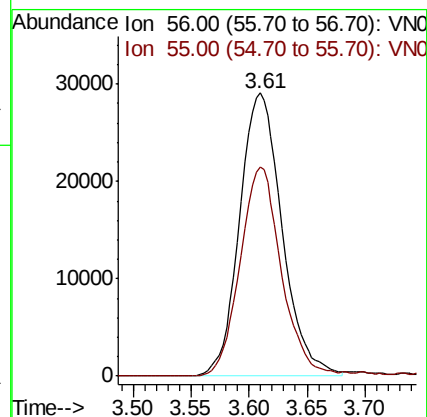
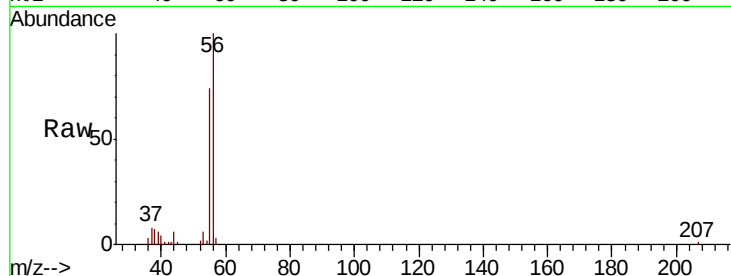
55 71.7 56.6 85.0

Manual Integrations

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#14

Allyl chloride

Concen: 20.406 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

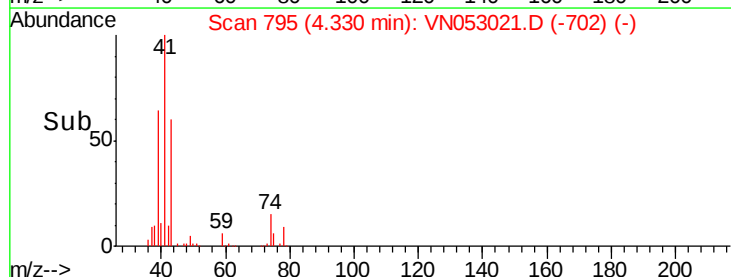
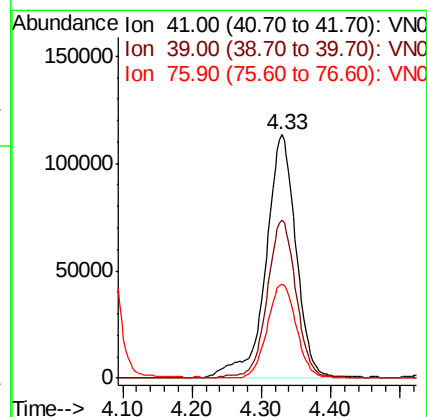
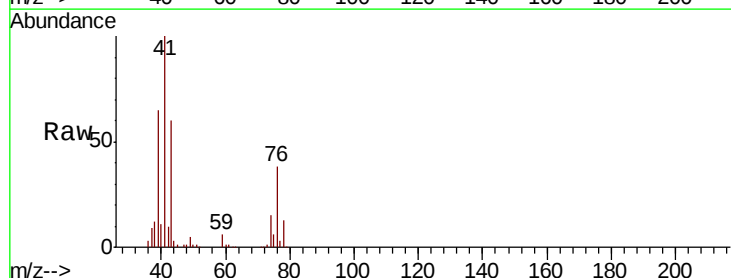
Tgt Ion: 41 Resp: 343234

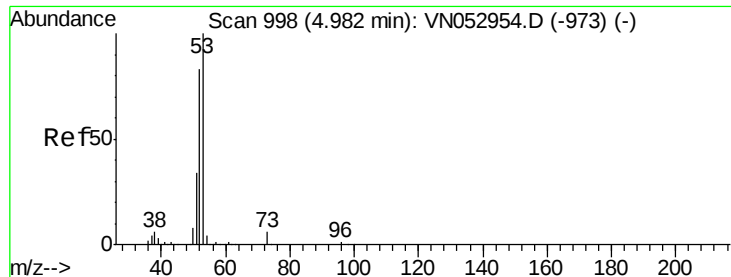
Ion Ratio Lower Upper

41 100

39 62.7 54.1 81.1

76 36.3 30.3 45.5





#15

Acrylonitrile

Concen: 100.698 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

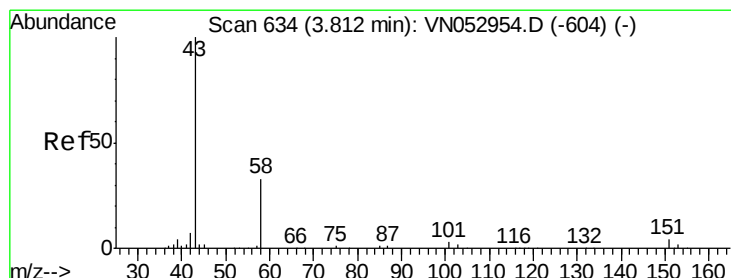
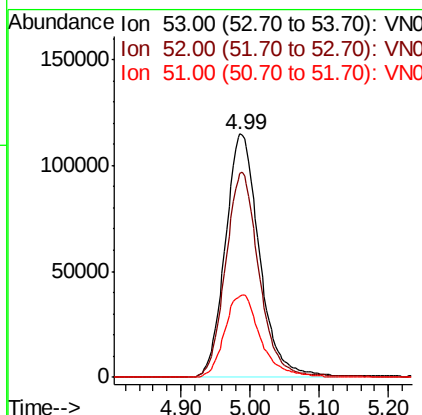
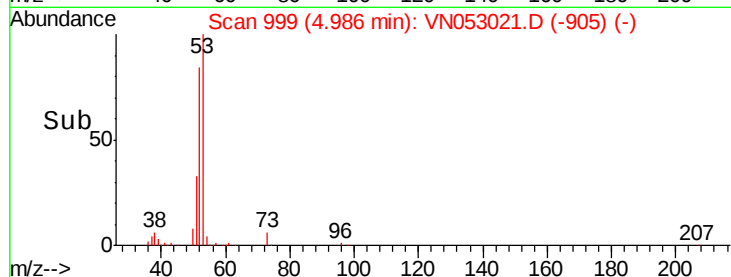
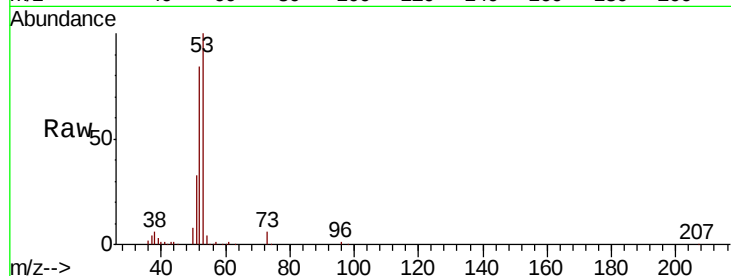
ClientSampleId :

VN1219MBS01

Tot Ion:	53	Resp:	394640
Ion Ratio	Lower	Upper	
53	100		
52	82.7	65.1	97.7
51	35.6	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 110.568 ug/l

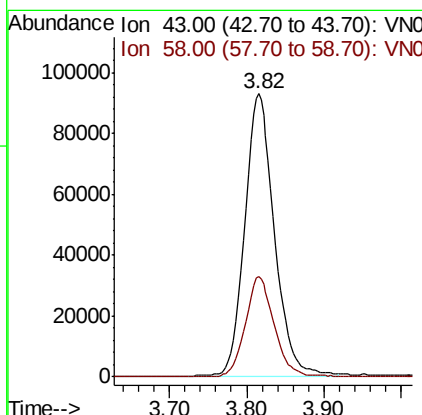
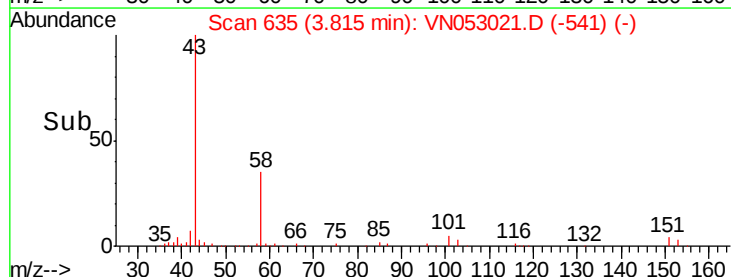
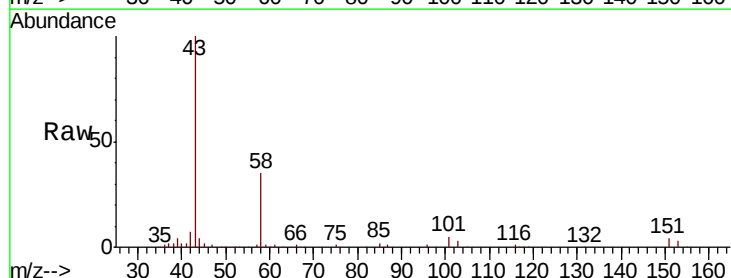
RT: 3.82 min Scan# 635

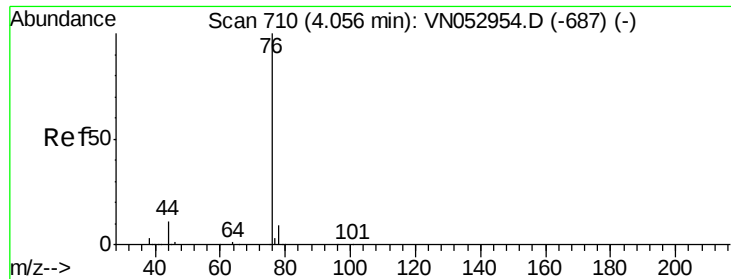
Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Tgt Ion:	43	Resp:	250639
Ion Ratio	Lower	Upper	
43	100		
58	35.3	25.4	38.0





#17

Carbon Disulfide

Concen: 17.288 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBS01

Tot Ion: 76 Resp: 612219

Ion Ratio Lower Upper

76 100

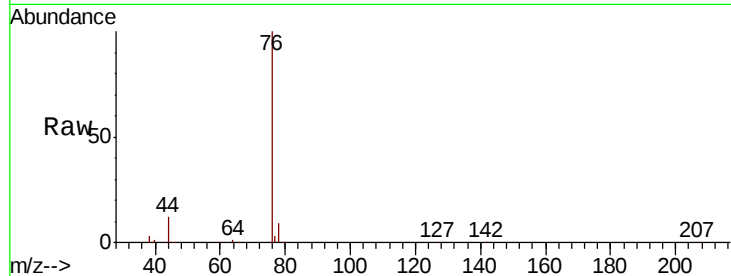
78 8.9 7.1 10.7

Manual Integrations

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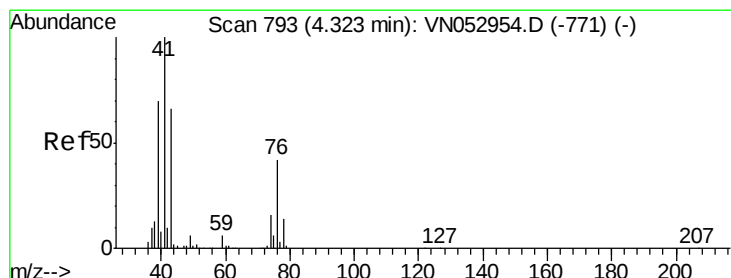
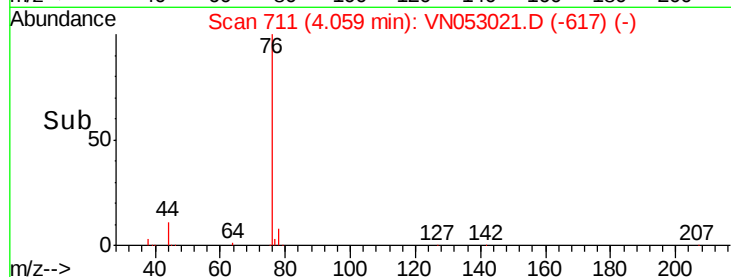
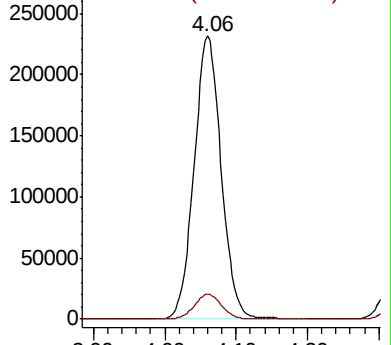
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 20.618 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053021.D

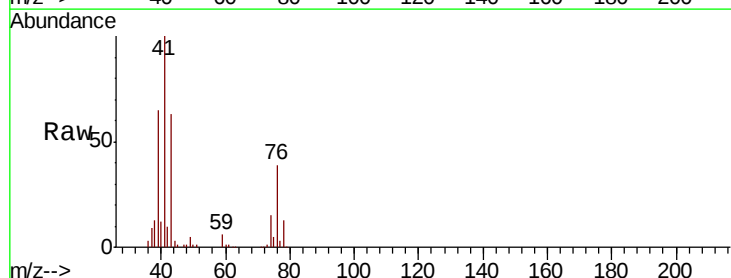
Acq: 19 Dec 2018 19:43

Tgt Ion: 43 Resp: 206016

Ion Ratio Lower Upper

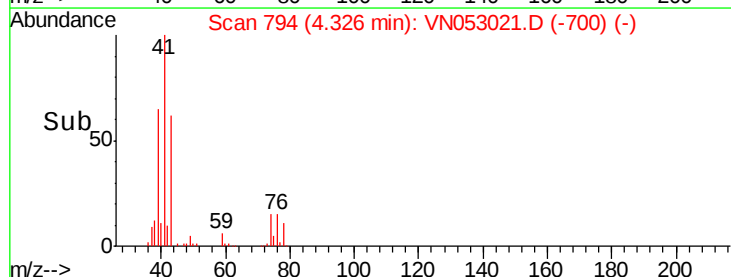
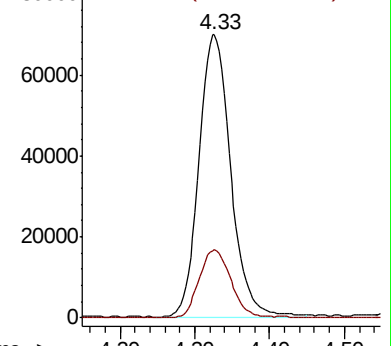
43 100

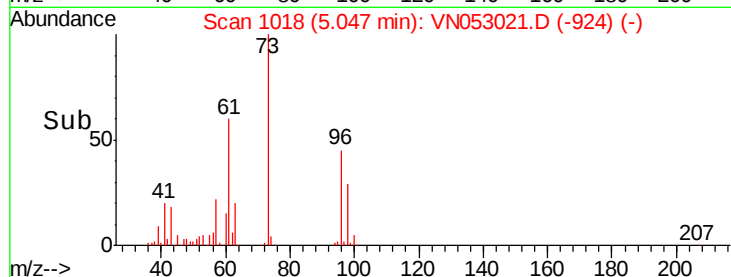
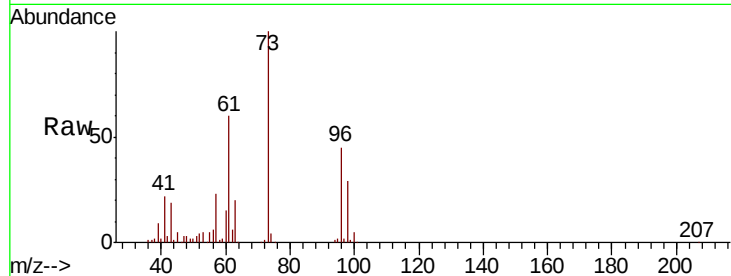
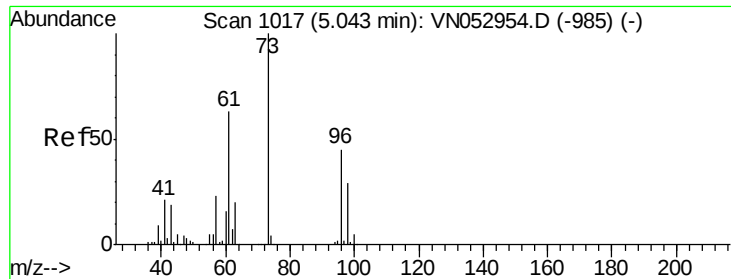
74 24.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





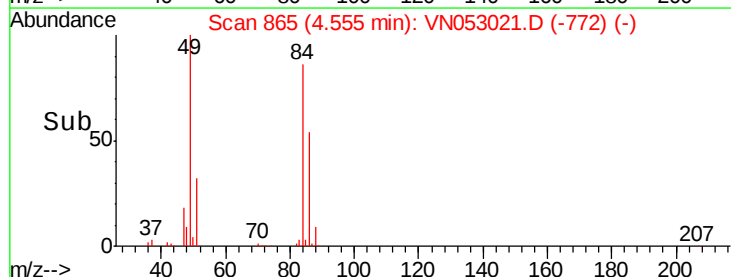
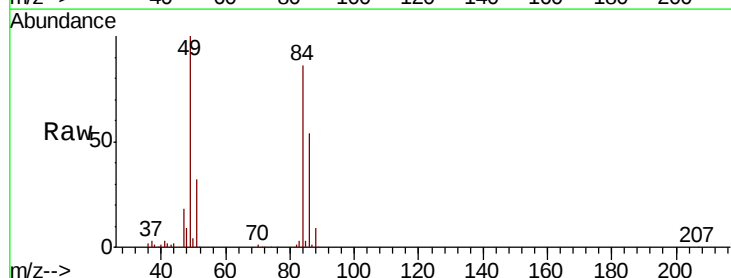
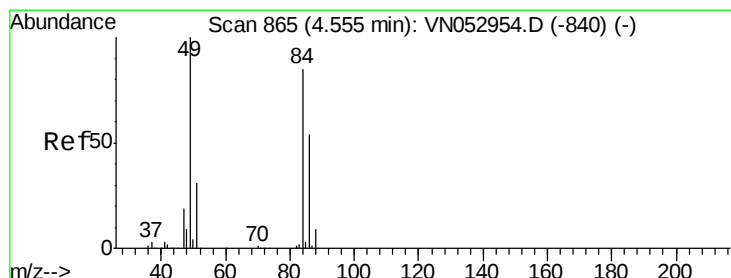
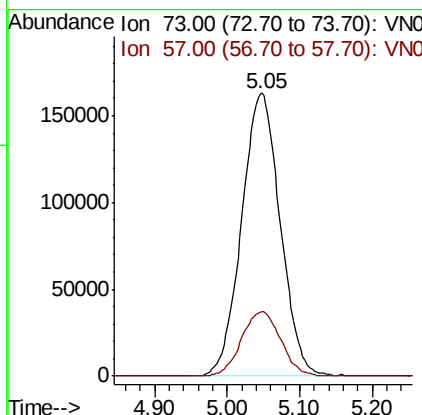
#19
Methvl tert-butvl Ether
Concen: 20.755 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tot Ion: 73 Resp: 603116
Ion Ratio Lower Upper
73 100
57 22.7 18.4 27.6

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

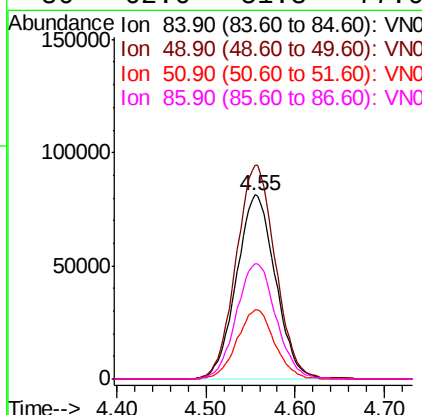
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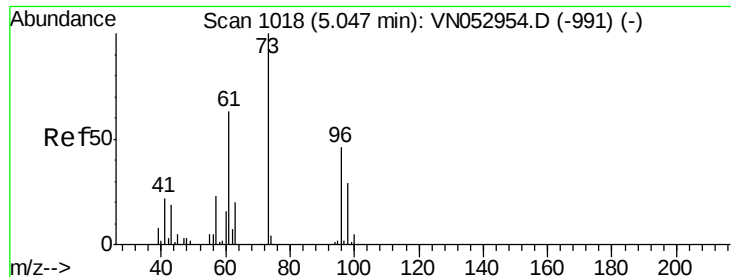
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#20
Methylene Chloride
Concen: 19.975 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion: 84 Resp: 247003
Ion Ratio Lower Upper
84 100
49 115.9 96.8 145.2
51 37.2 29.9 44.9
86 62.6 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 19.974 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBS01

Tot Ion: 96 Resp: 233038

Ion Ratio Lower Upper

96 100

61 133.3 110.8 166.2

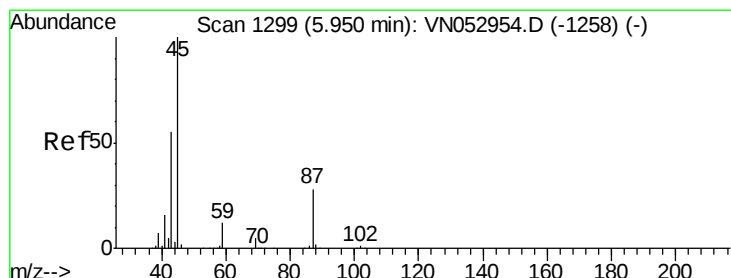
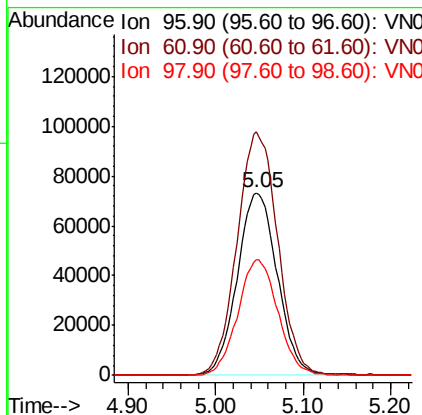
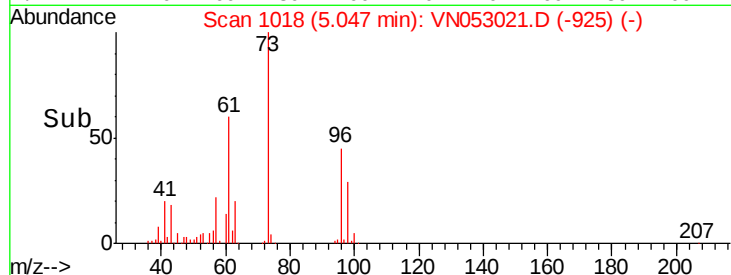
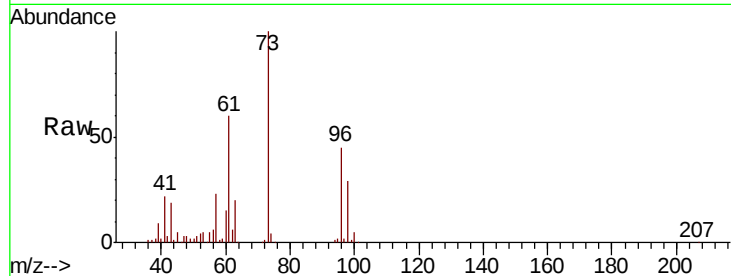
98 63.5 51.4 77.2

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#22

Diisopropyl ether

Concen: 21.017 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Tgt Ion: 45 Resp: 754562

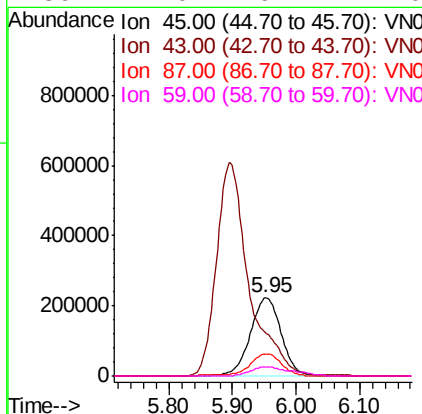
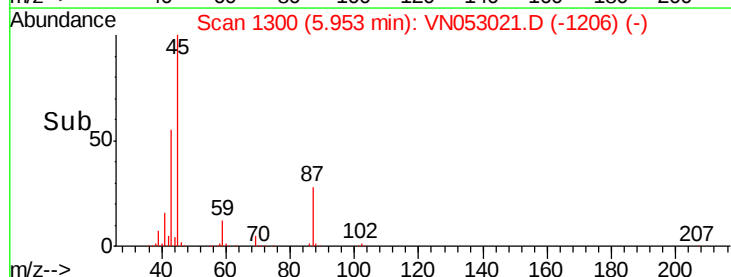
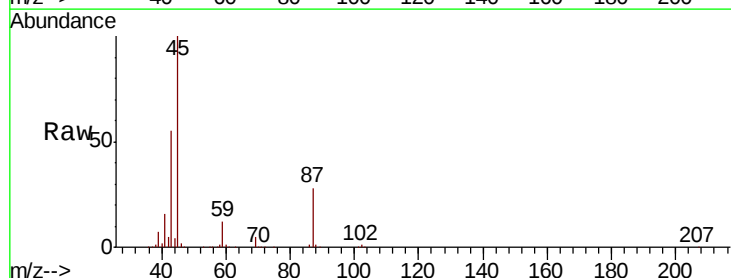
Ion Ratio Lower Upper

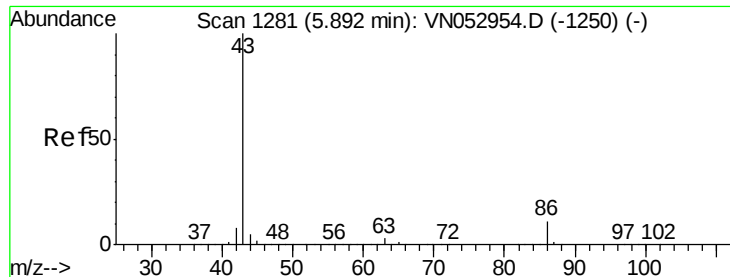
45 100

43 53.7 45.5 68.3

87 28.3 22.0 33.0

59 12.0 9.4 14.0





#23

Vinyl Acetate

Concen: 105.046 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleID :

VN1219MBSD01

Tot Ion: 43 Resp: 2168655

Ion Ratio Lower Upper

43 100

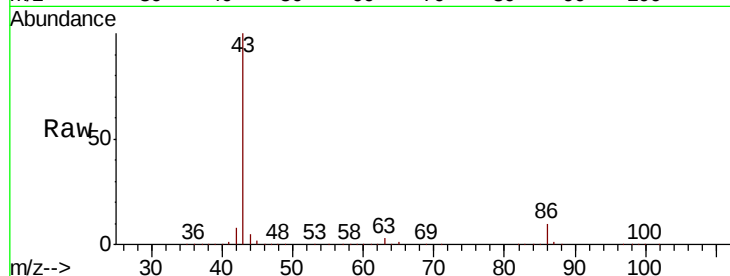
86 10.5 8.1 12.1

Manual Integrations

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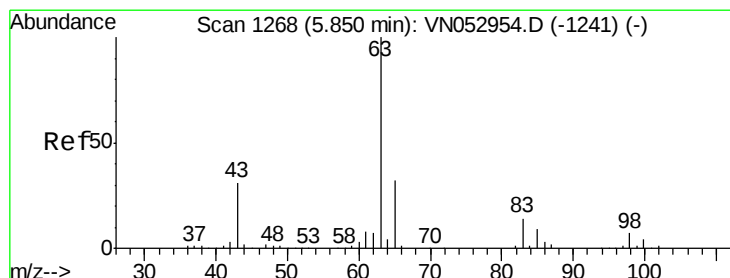
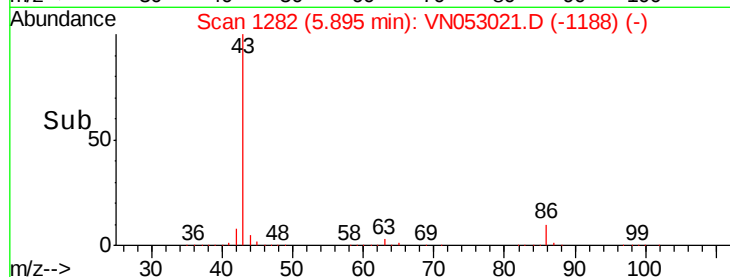
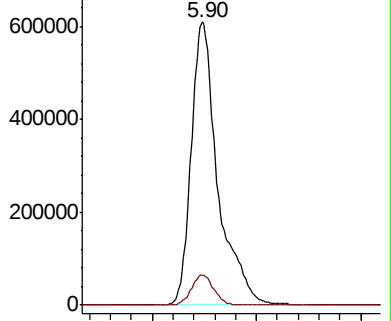
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12/20/2018 9:35:11 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.260 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

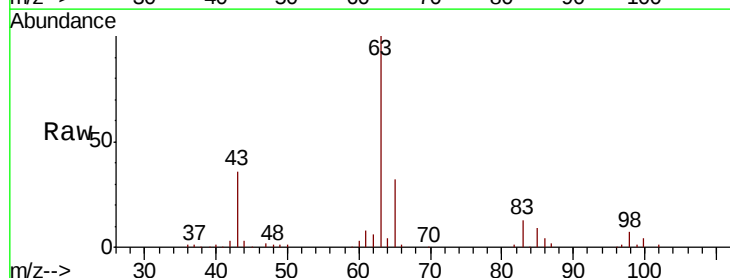
Tgt Ion: 63 Resp: 432220

Ion Ratio Lower Upper

63 100

98 6.9 3.1 9.4

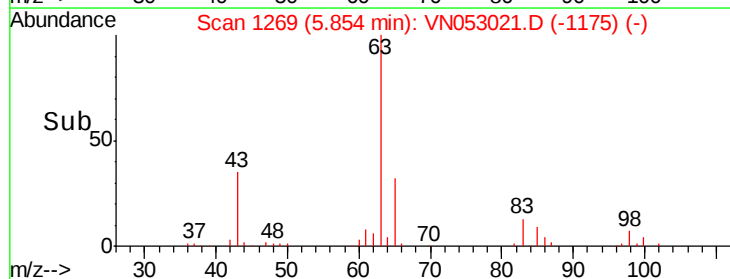
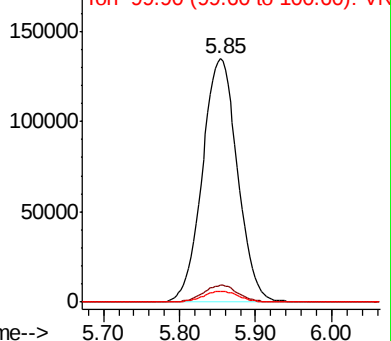
100 4.4 2.0 5.8

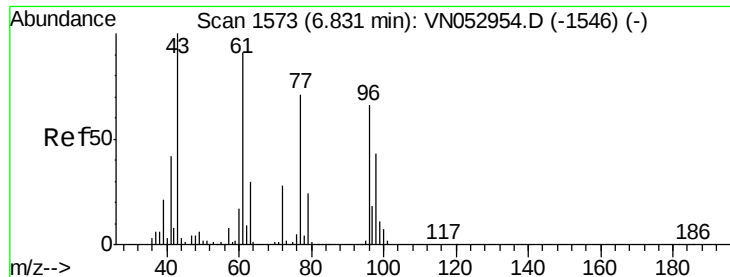


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





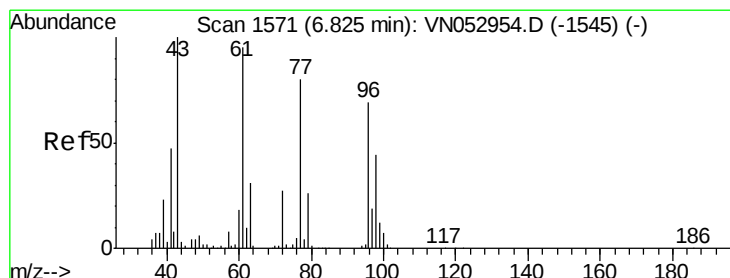
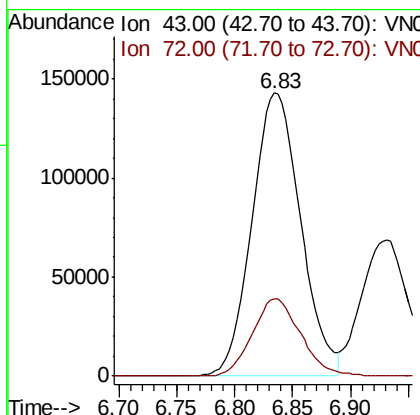
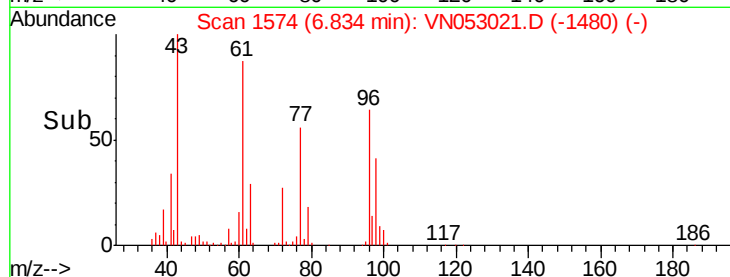
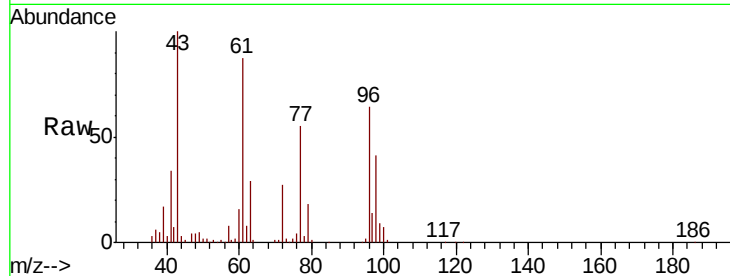
#25
2-Butanone
Concen: 109.304 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion: 43 Resp: 415827
Ion Ratio Lower Upper
43 100
72 27.5 21.0 31.6

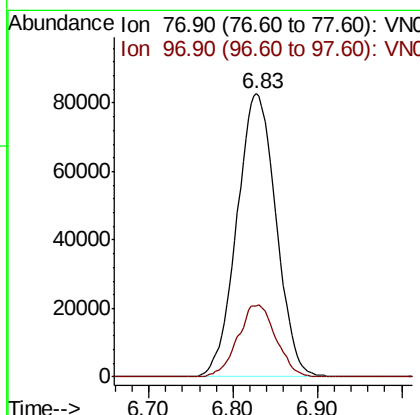
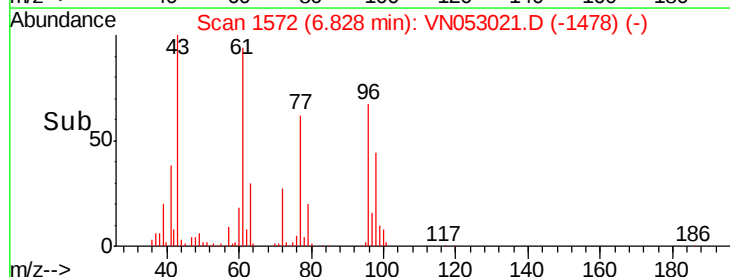
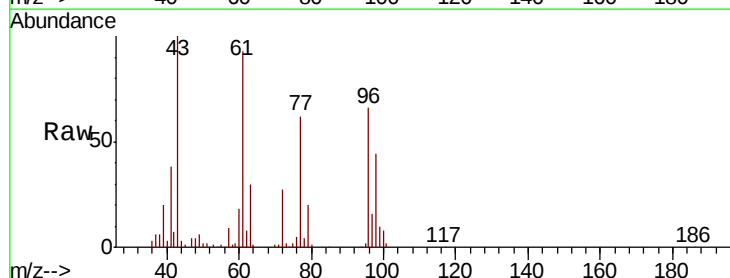
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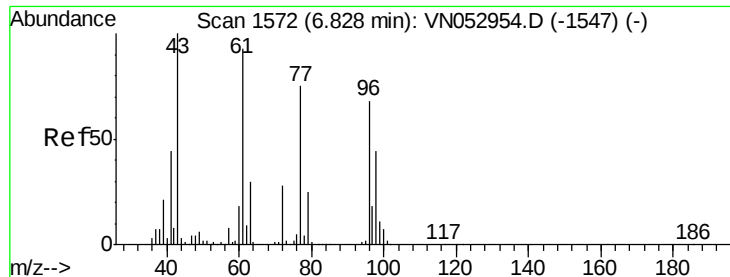
MMDadoda
12/20/2018 9:35:11 AM



#26
2,2-Dichloropropane
Concen: 16.403 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion: 77 Resp: 267135
Ion Ratio Lower Upper
77 100
97 24.7 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 20.223 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

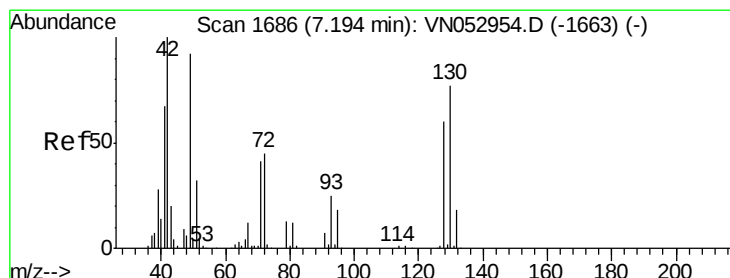
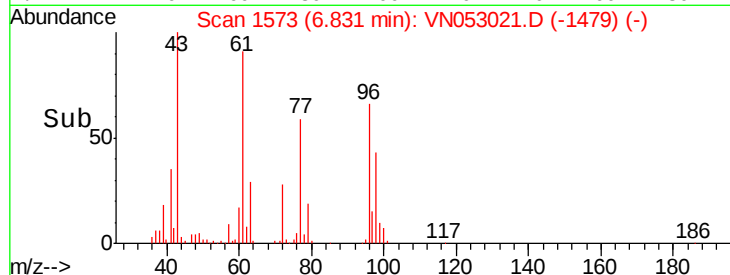
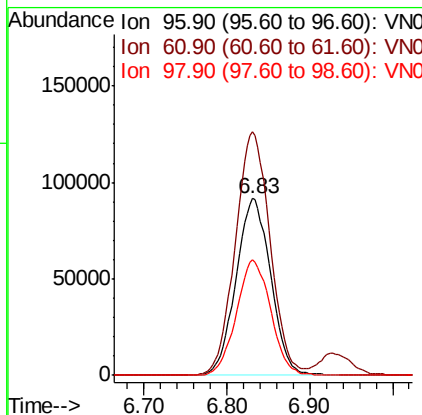
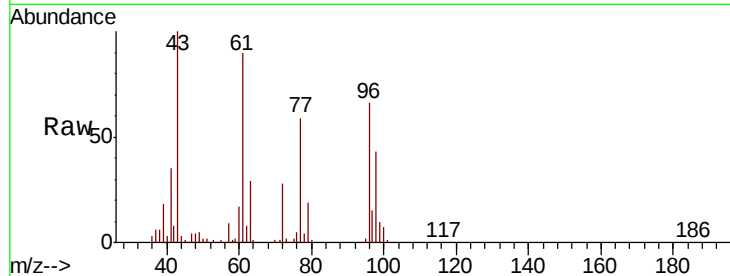
ClientSampleId :

VN1219MBS01

Tot Ion:	96	Resp:	267111
Ion Ratio	Lower	Upper	
96	100		
61	137.5	0.0	284.2
98	64.6	0.0	129.2

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#28

Bromochloromethane

Concen: 20.157 ug/l

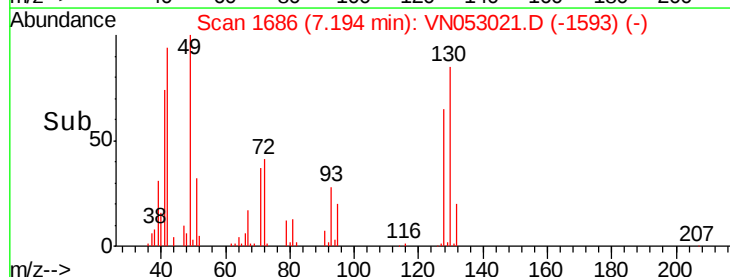
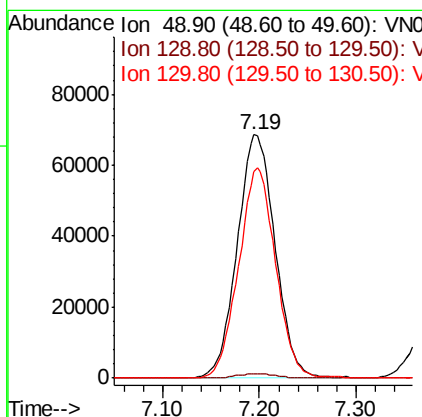
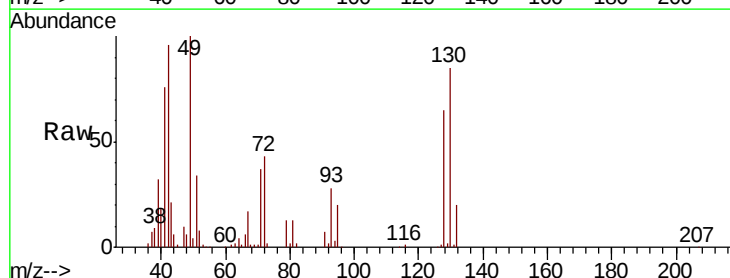
RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Tgt Ion:	49	Resp:	186341
Ion Ratio	Lower	Upper	
49	100		
129	1.9	0.0	4.0
130	84.2	63.3	94.9





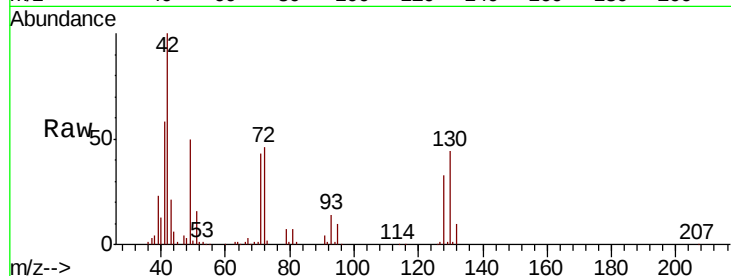
#29
Tetrahydrofuran
Concen: 103.275 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

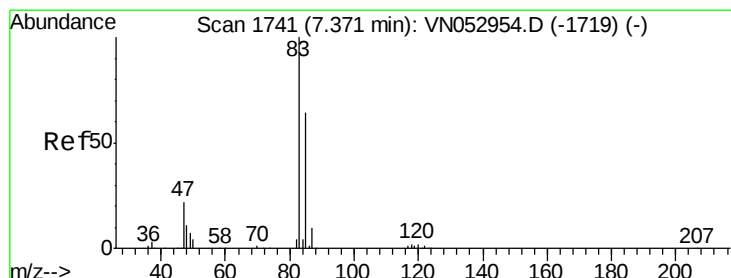
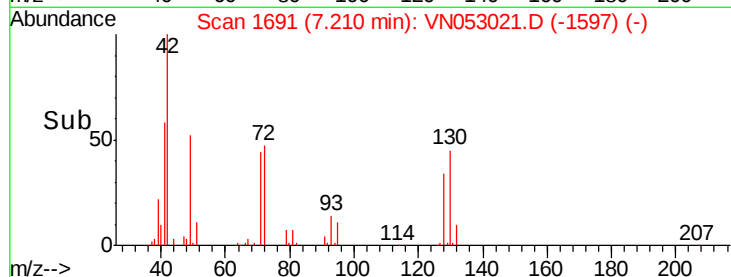
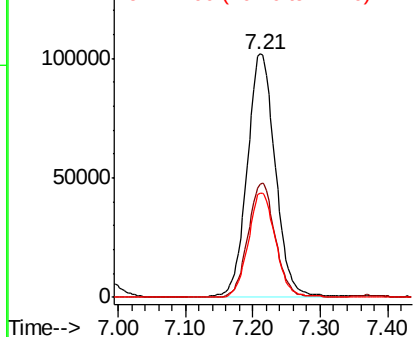
Tot Ion	Ratio	Lower	Upper
42	100		
72	45.8	34.7	52.1
71	41.8	32.3	48.5

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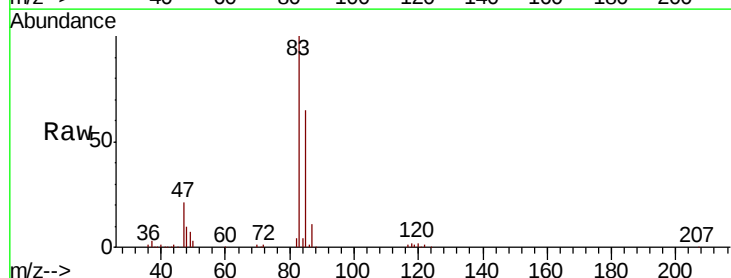


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

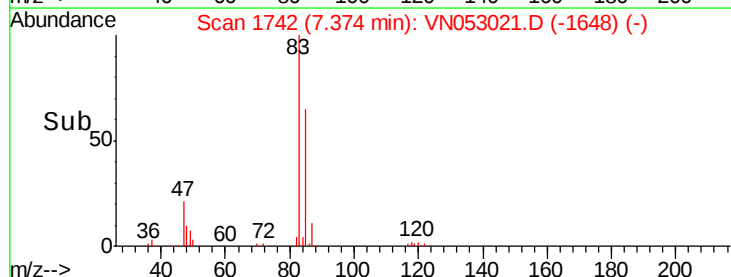
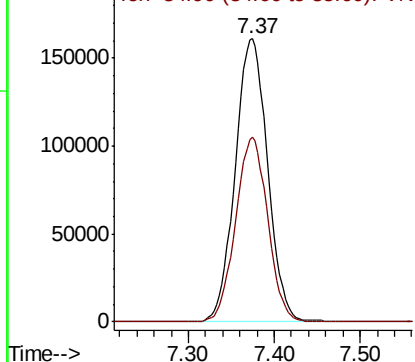


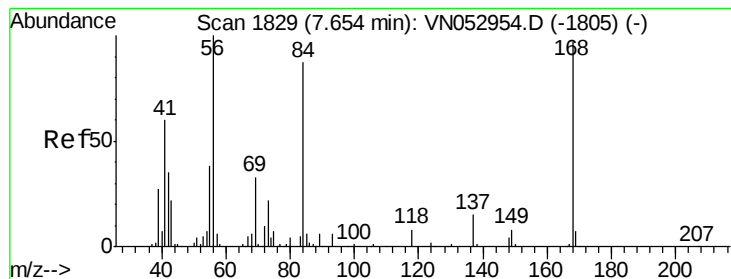
#30
Chloroform
Concen: 20.113 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 20.287 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

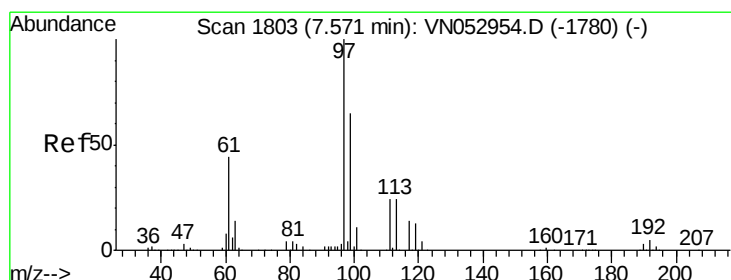
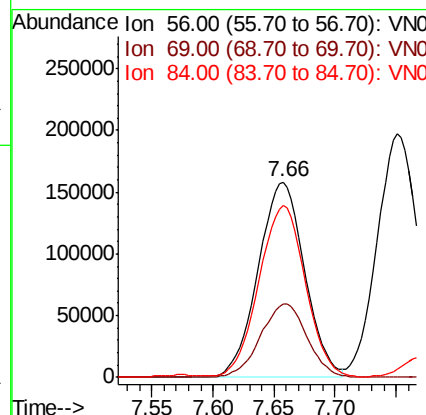
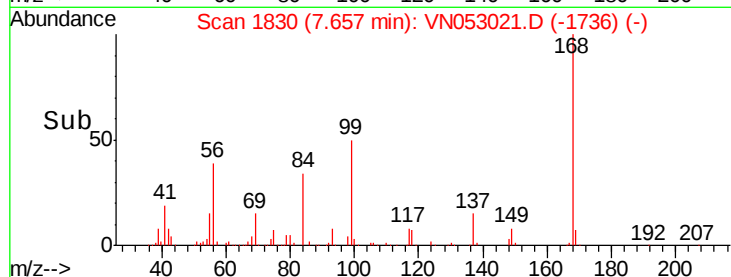
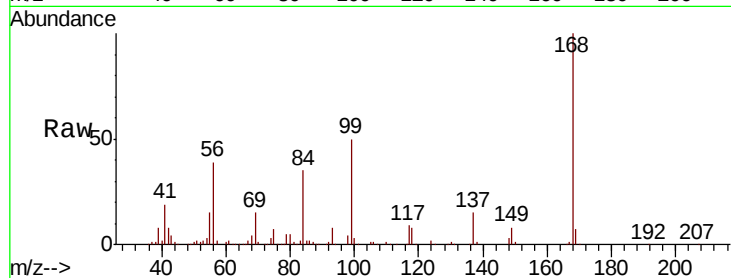
ClientSampleId :

VN1219MBSD01

Tot Ion:	56	Resp:	418424
Ion Ratio	Lower	Upper	
56	100		
69	37.5	26.6	39.8
84	87.0	68.4	102.6

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#32

1,1,1-Trichloroethane

Concen: 19.497 ug/l

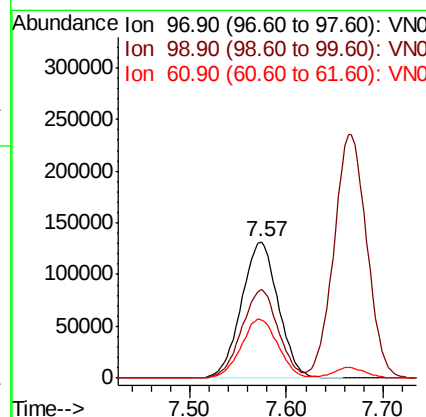
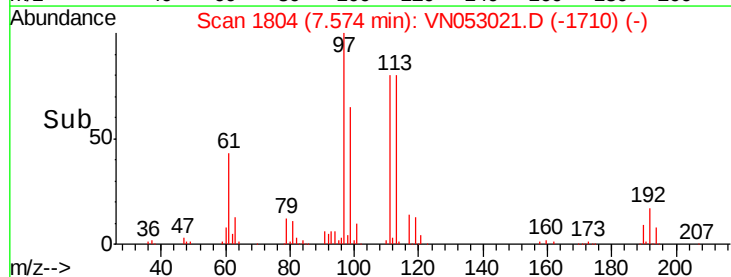
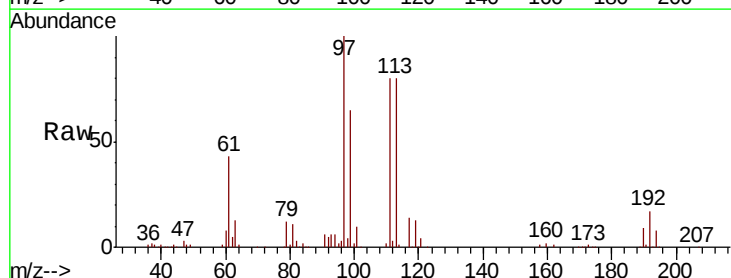
RT: 7.57 min Scan# 1804

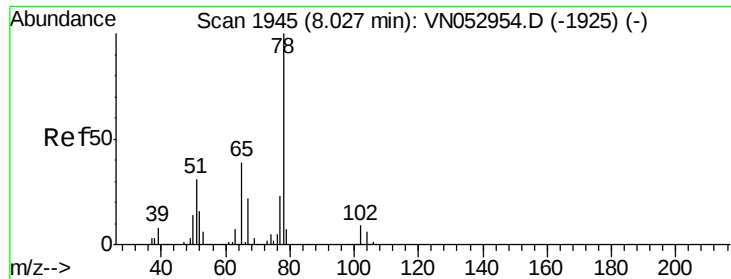
Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Tgt Ion:	97	Resp:	348080
Ion Ratio	Lower	Upper	
97	100		
99	64.6	51.1	76.7
61	43.5	35.0	52.6





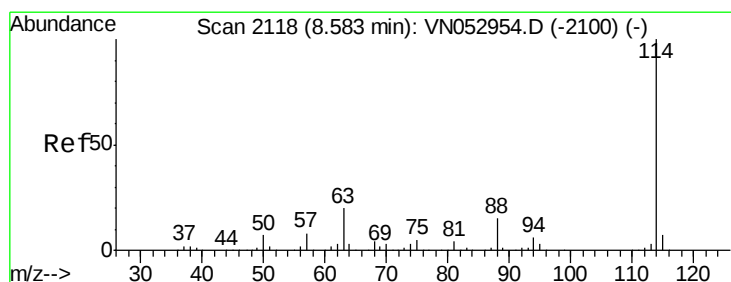
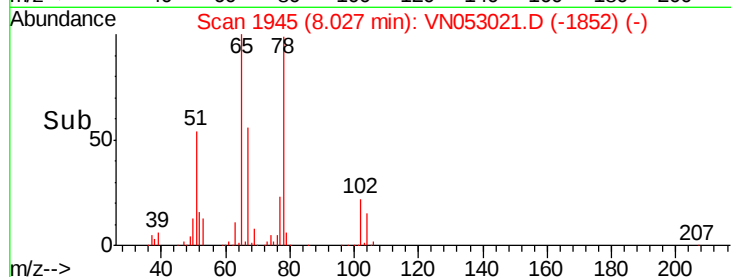
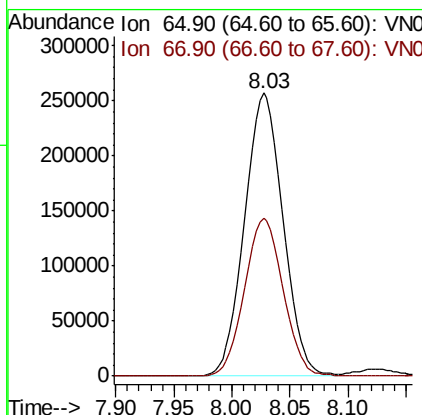
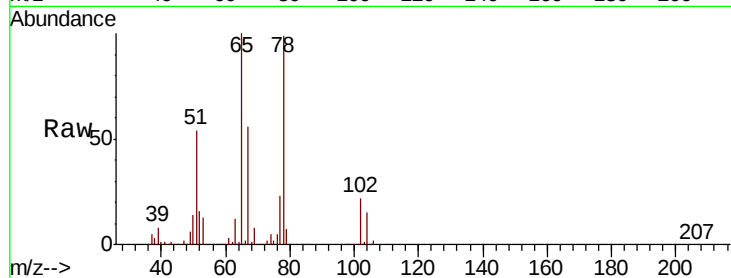
#33
 1,2-Dichloroethane-d4
 Concen: 19.497 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	596222		
67	55.9	0.0	110.4	

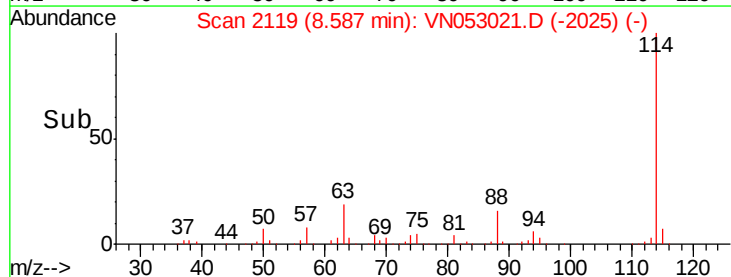
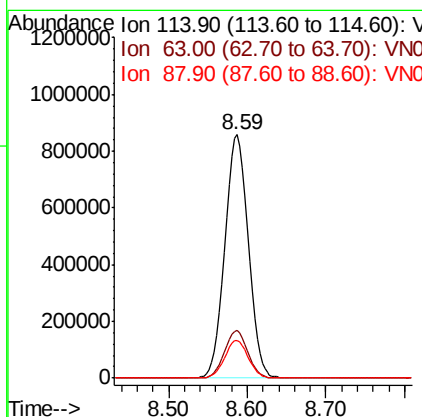
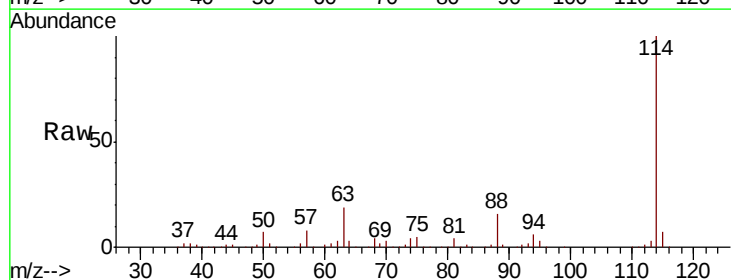
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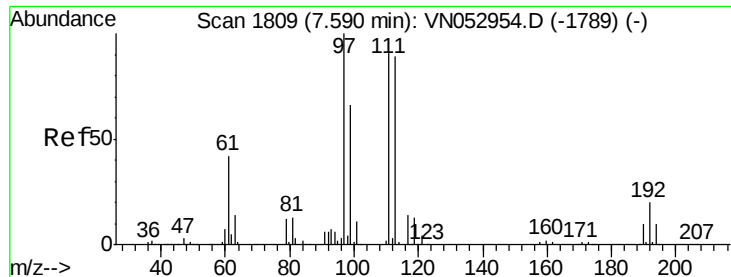
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1764749		
63	19.4	0.0	39.8	
88	15.6	0.0	31.0	





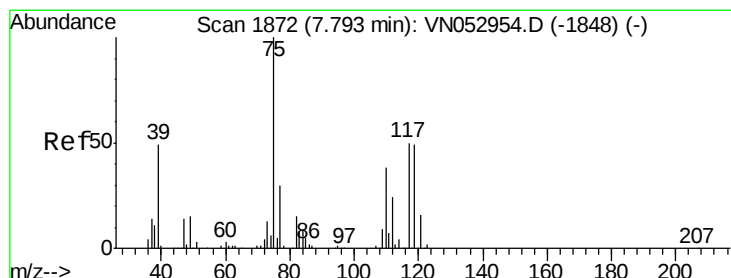
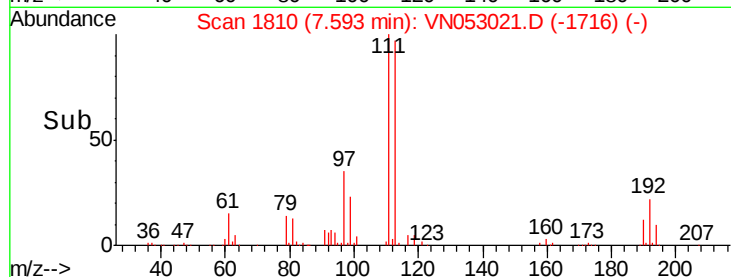
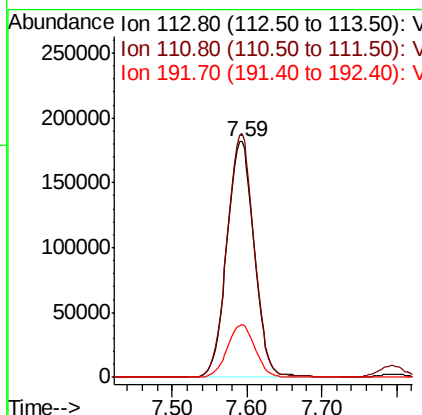
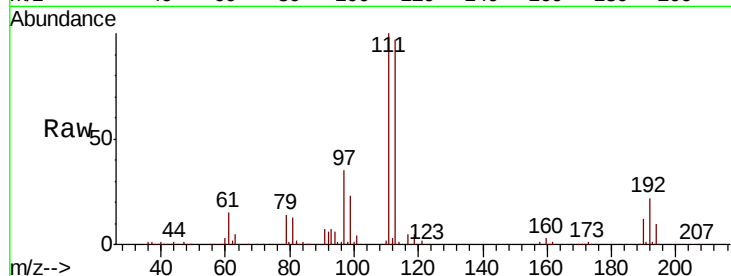
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	461287		
111	102.4	83.0	124.4	
192	22.5	17.5	26.3	

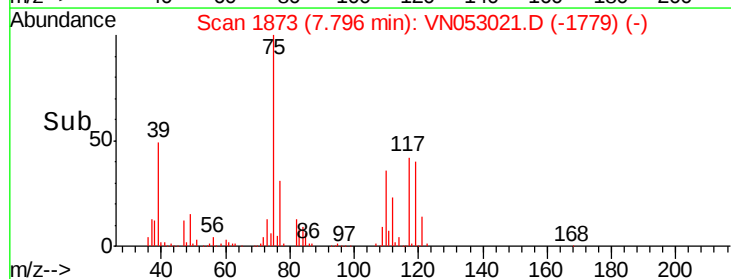
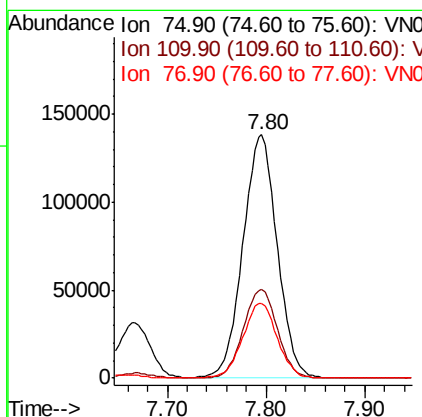
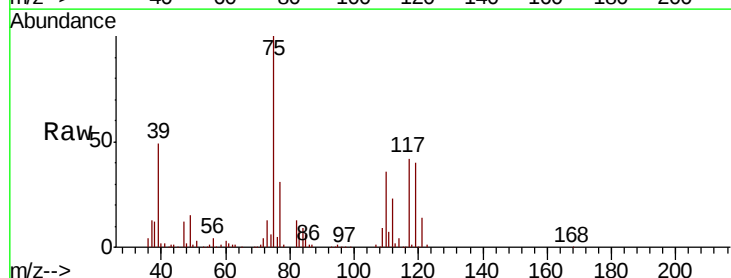
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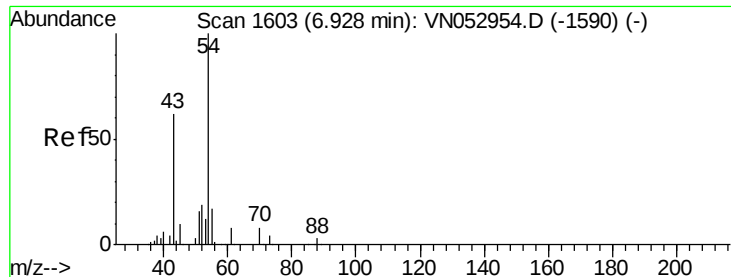
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 19.455 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	329531		
110	36.6	18.2	54.6	
77	31.3	24.9	37.3	





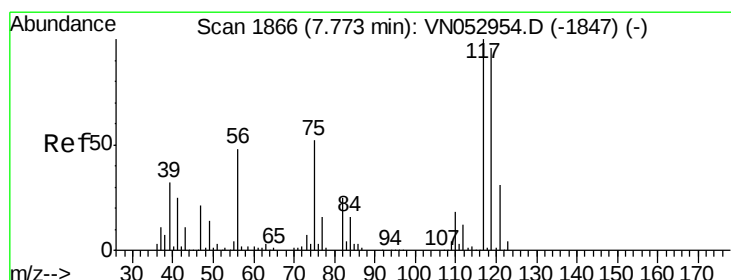
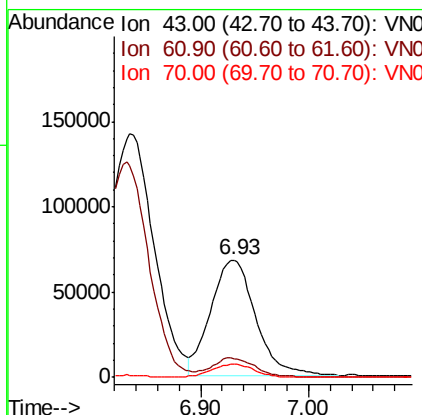
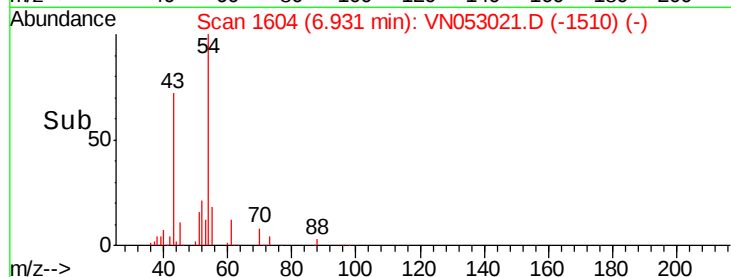
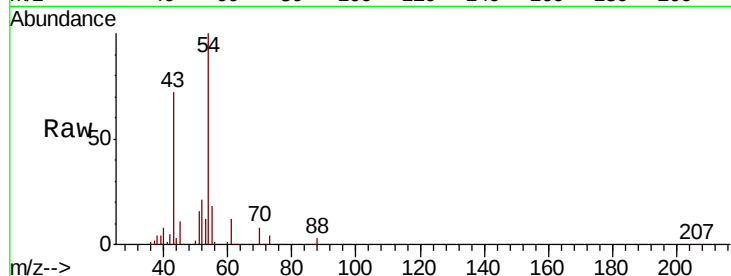
#37
Ethyl Acetate
Concen: 20.856 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.6	11.8	17.6
70	10.8	8.4	12.6

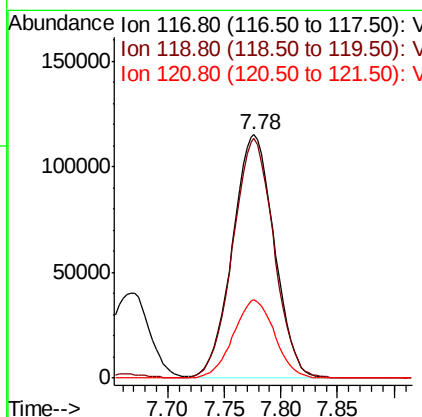
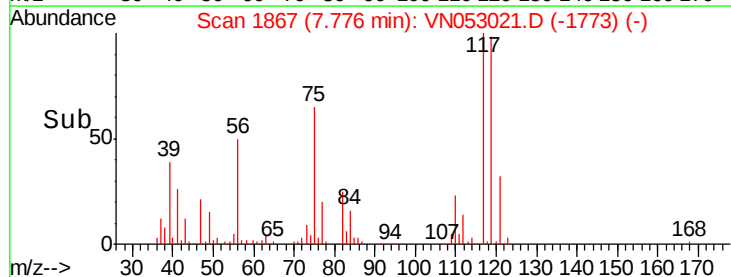
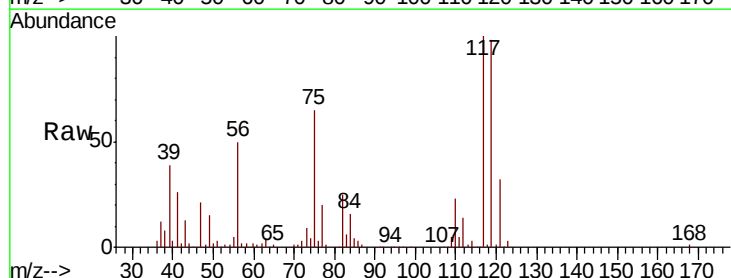
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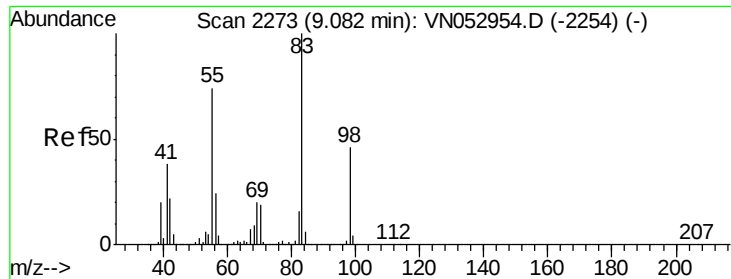
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#38
Carbon Tetrachloride
Concen: 18.992 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.6	77.1	115.7
121	32.1	24.9	37.3





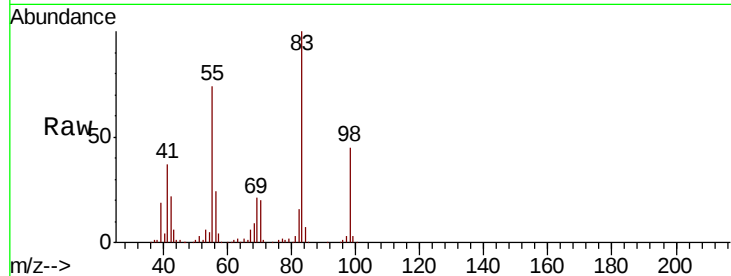
#39
Methvlcvclohexane
Concen: 19.045 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.2	61.3	91.9
98	45.2	37.0	55.4

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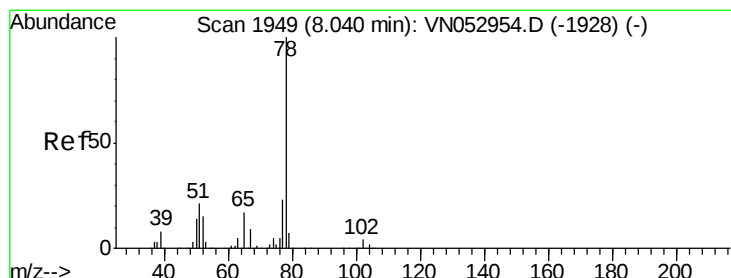
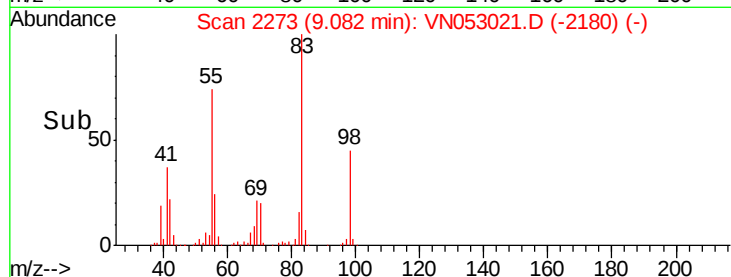
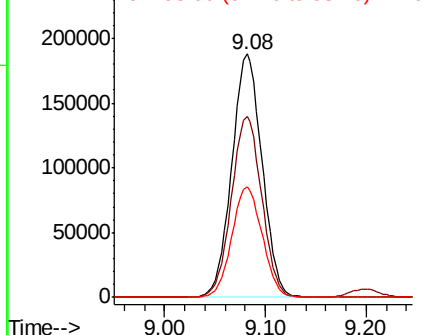


Abundance

Ion 83.00 (82.70 to 83.70): VN0

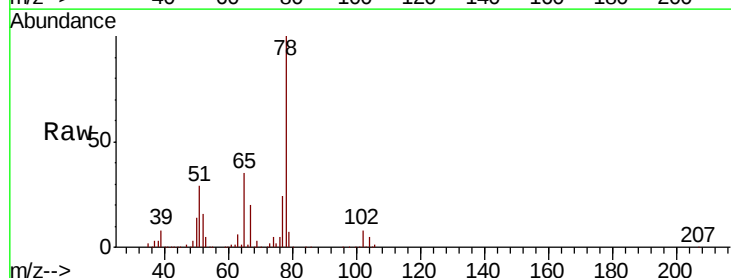
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40
Benzene
Concen: 19.975 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

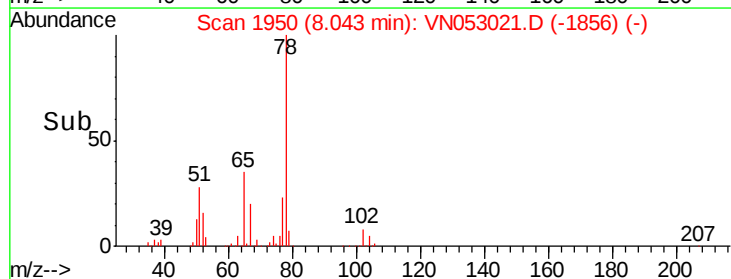
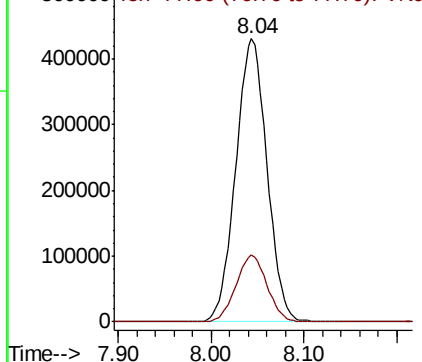
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.5	27.7

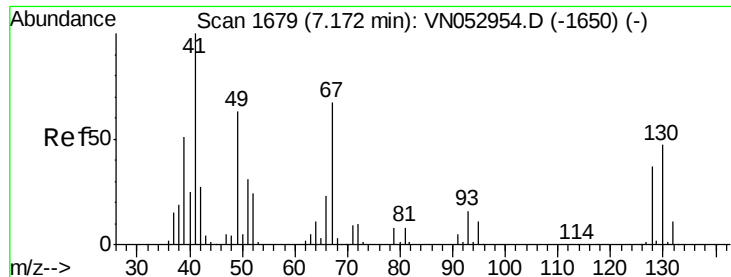


Abundance

Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





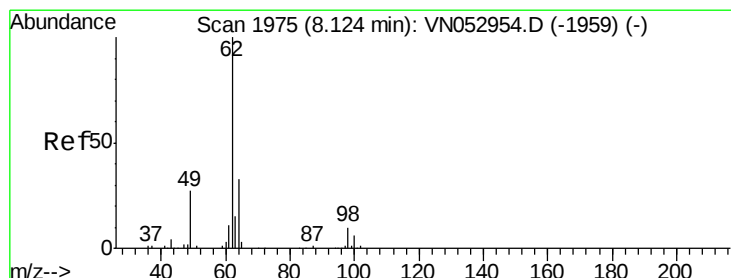
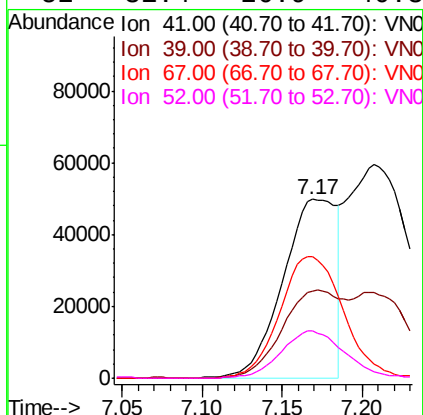
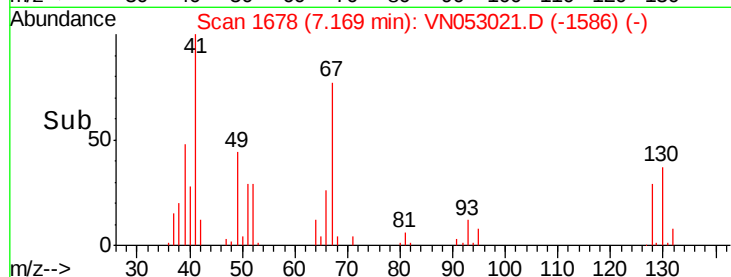
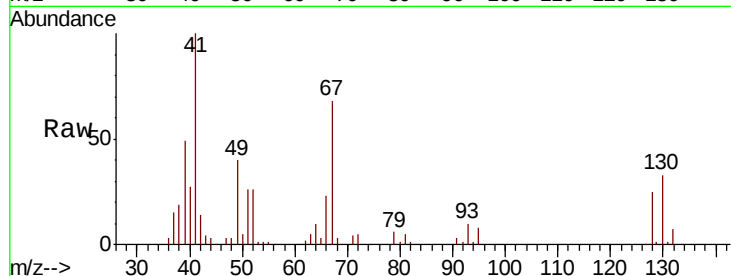
#41
Methacrylonitrile
Concen: 21.427 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion	41	Resp	117067
Ion	Ratio	Lower	Upper
41	100		
39	56.6	48.0	72.0
67	80.4	70.3	105.5
52	31.4	26.9	40.3

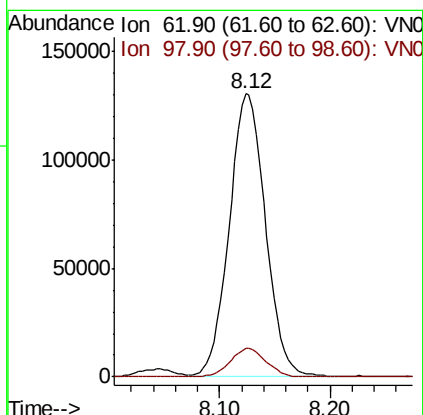
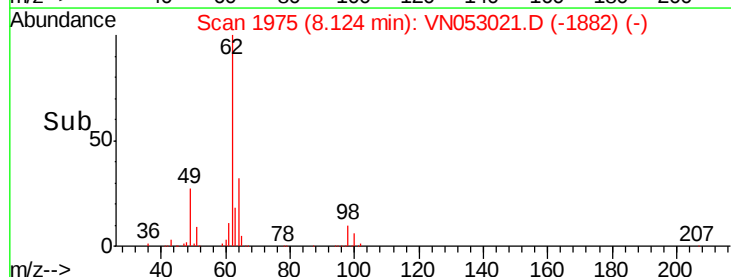
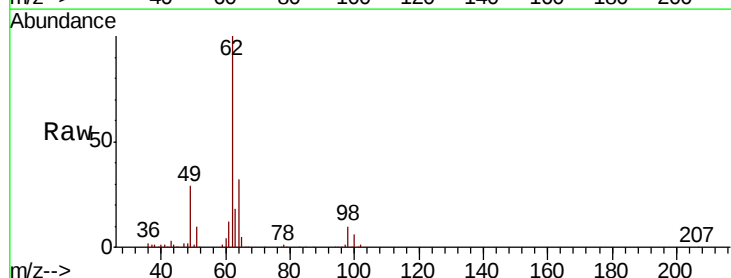
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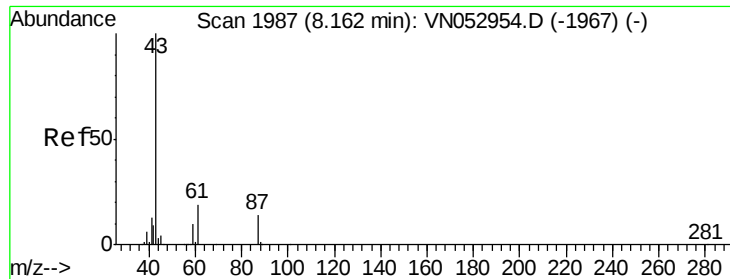
MMDadoda
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#42
1,2-Dichloroethane
Concen: 19.823 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	62	Resp	295048
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0





#43

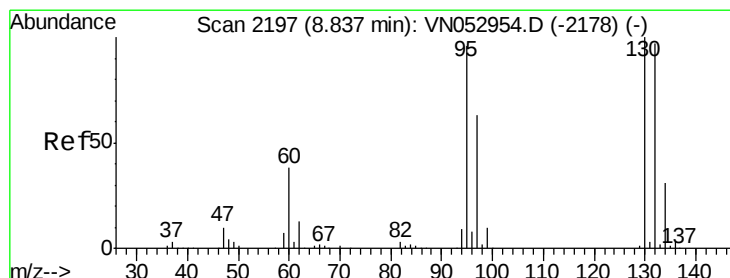
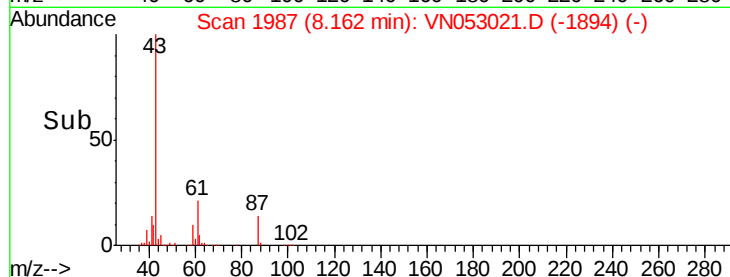
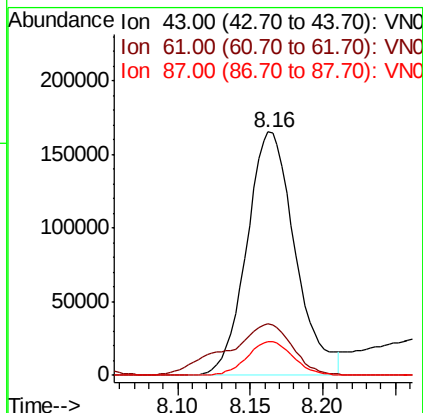
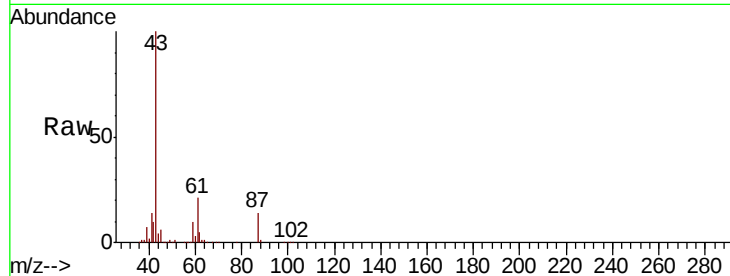
Isopropyl Acetate
 Concen: 20.169 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.3	22.9	34.3
87	13.4	10.6	15.8

Manual Integrations
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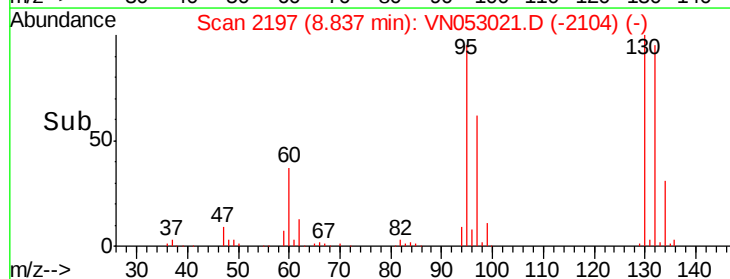
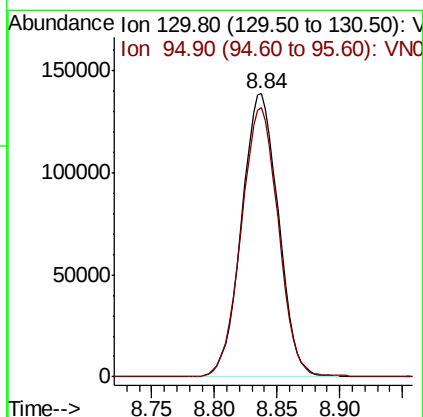
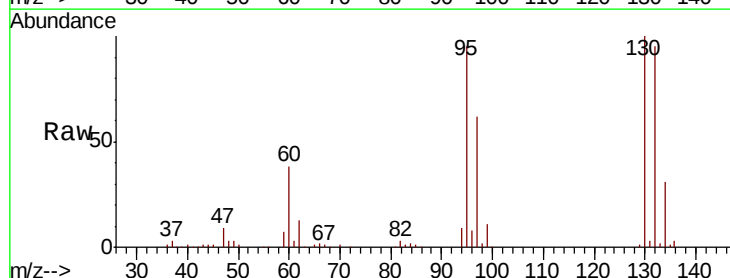
MMDadoda
 12/20/2018 9:35:11 AM

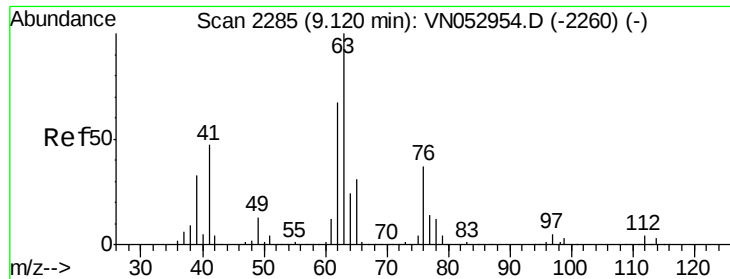


#44

Trichloroethene
 Concen: 19.410 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	197.8





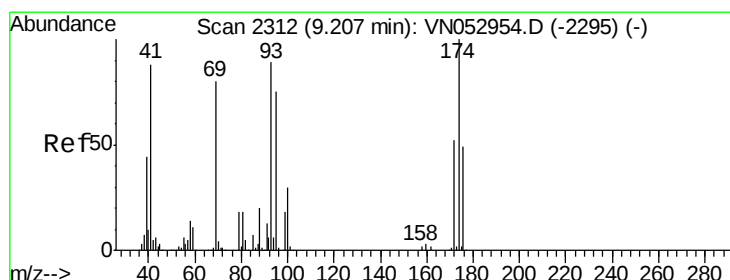
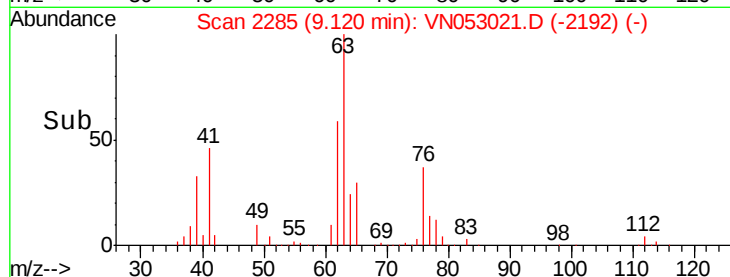
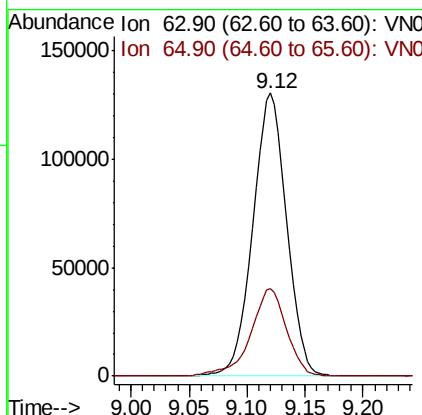
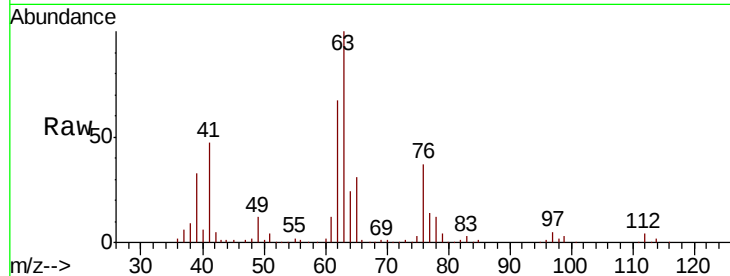
#45
 1,2-Dichloropropane
 Concen: 20.174 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	37.0

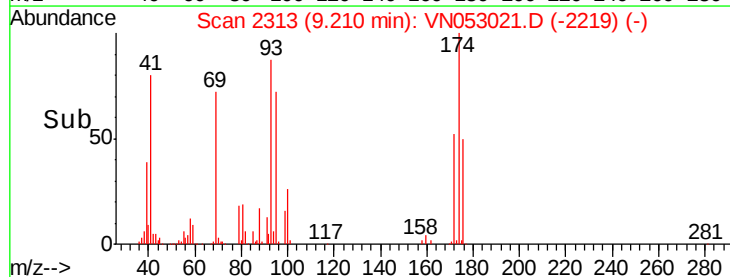
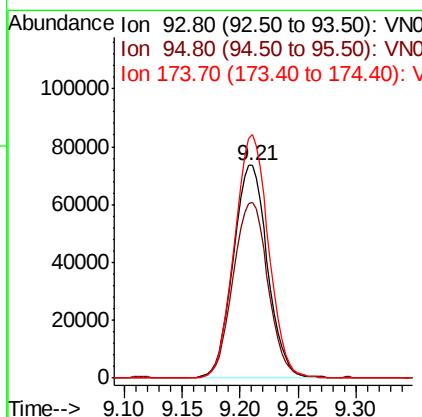
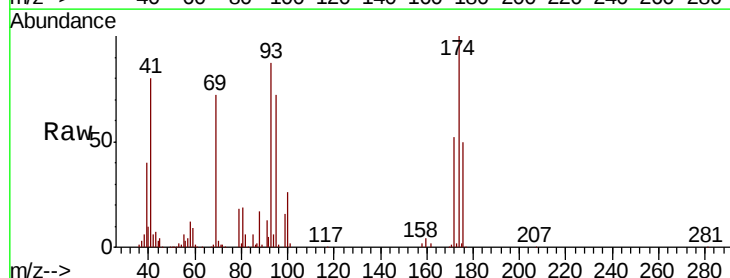
Manual Integrations
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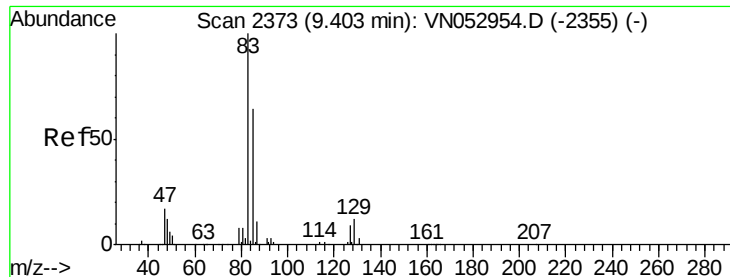
MMDadoda
 12/20/2018 9:35:11 AM



#46
 Dibromomethane
 Concen: 19.757 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.4	67.8	101.6
174	113.8	89.0	133.4





#47

Bromodichloromethane

Concen: 19.265 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

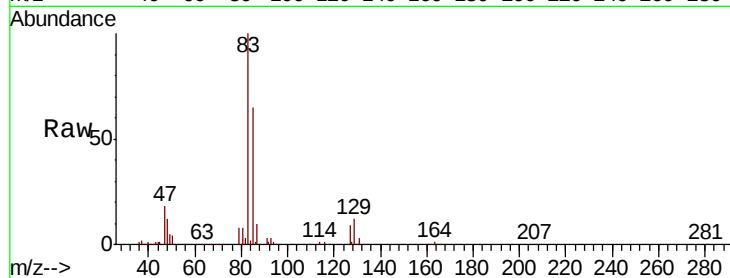
ClientSampleId :

VN1219MBSD01

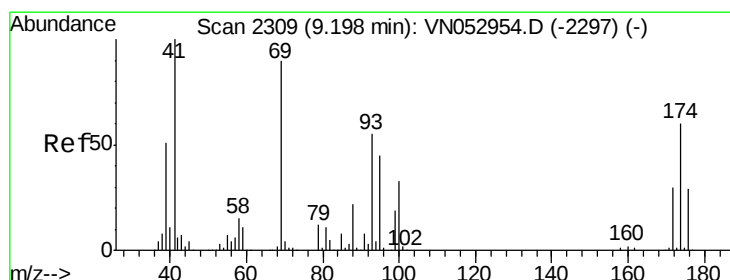
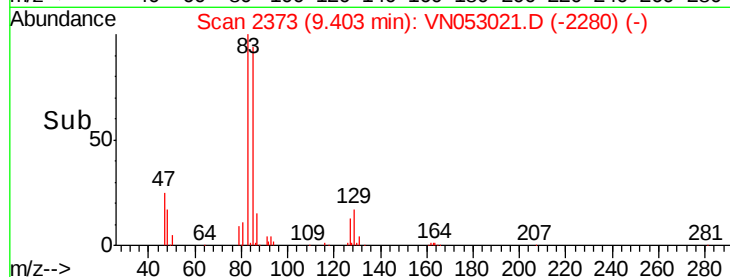
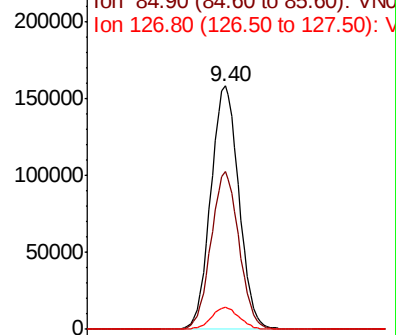
Tot Ion:	83	Resp:	313077
Ion Ratio	Lower	Upper	
83	100		
85	64.7	51.6	77.4
127	9.0	7.1	10.7

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN053021.D (-2280) (-)



#48

Methyl methacrylate

Concen: 20.260 ug/l

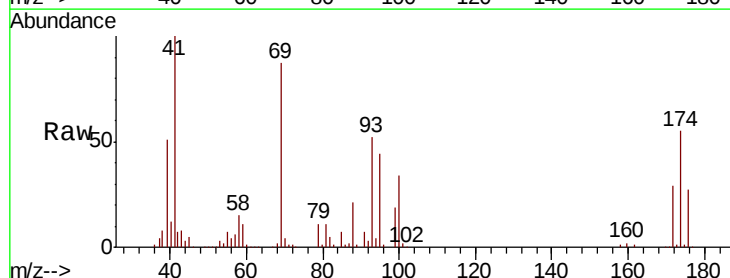
RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

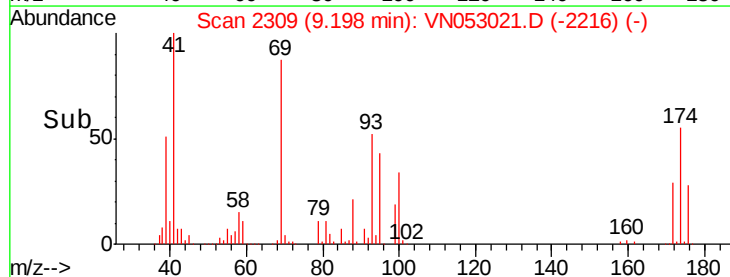
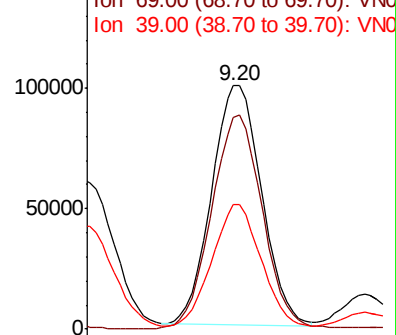
Lab File: VN053021.D

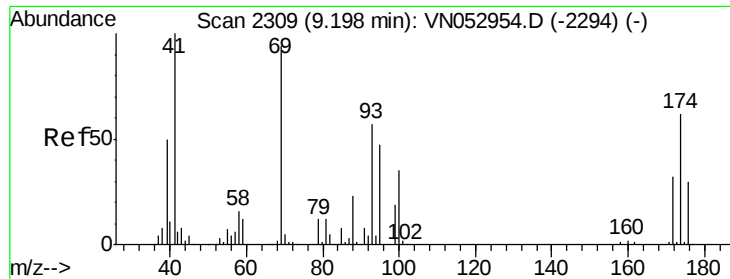
Acq: 19 Dec 2018 19:43

Tgt Ion:	41	Resp:	185904
Ion Ratio	Lower	Upper	
41	100		
69	90.4	72.2	108.2
39	52.0	41.9	62.9



Abundance Ion 41.00 (40.70 to 41.70): VN053021.D (-2216) (-)





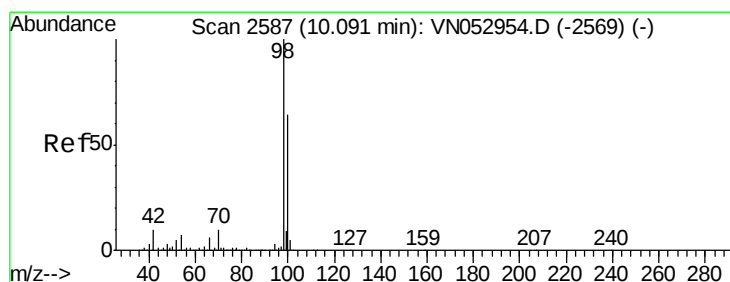
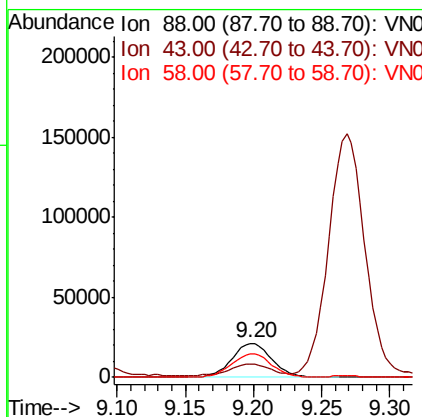
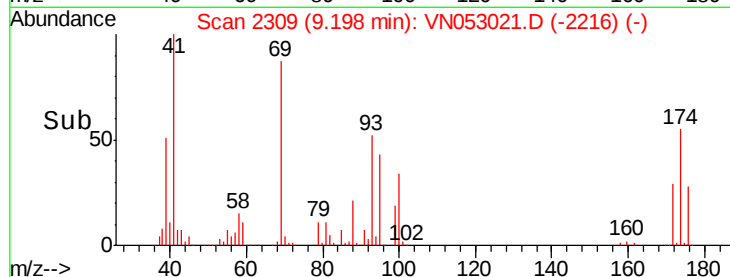
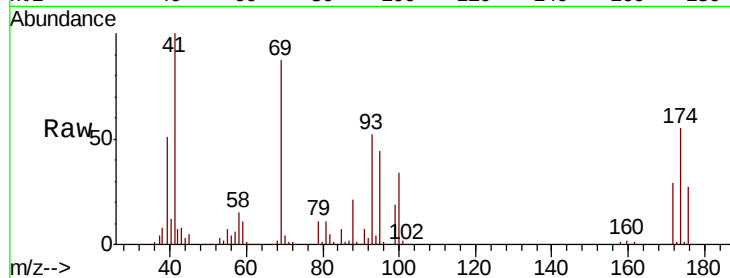
#49
1,4-Dioxane
Concen: 372.476 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.9	26.6	40.0
58	70.9	58.4	87.6

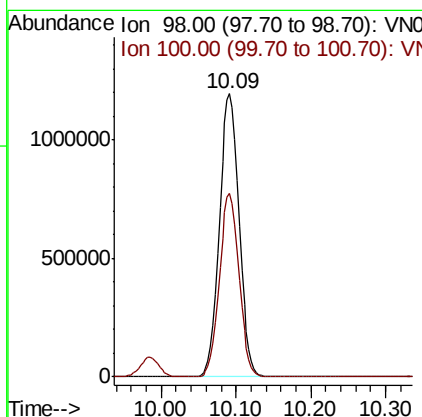
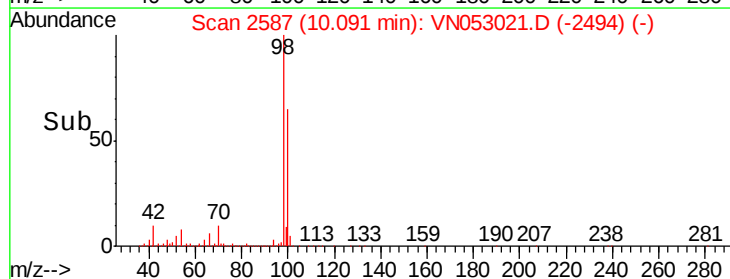
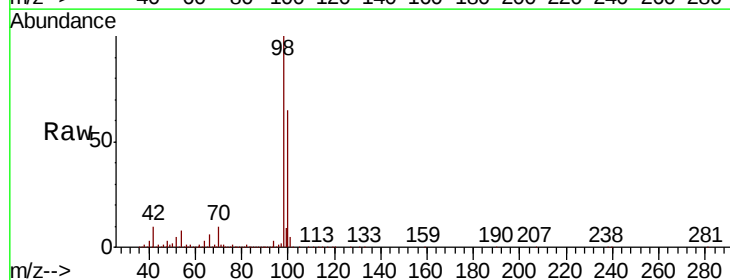
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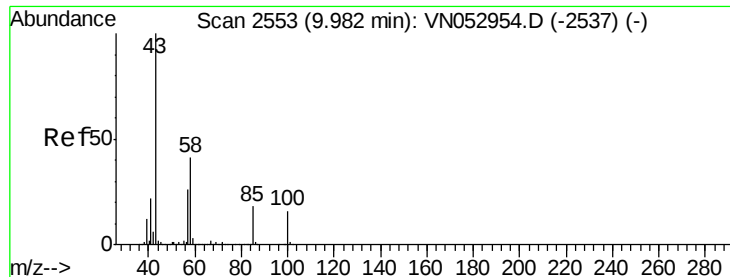
MMDadoda
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#50
Toluene-d8
Concen: 372.476 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 105.212 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBS01

Tot Ion: 43 Resp: 963464

Ion Ratio Lower Upper

43 100

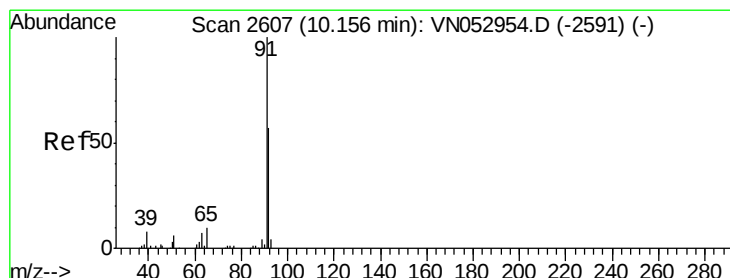
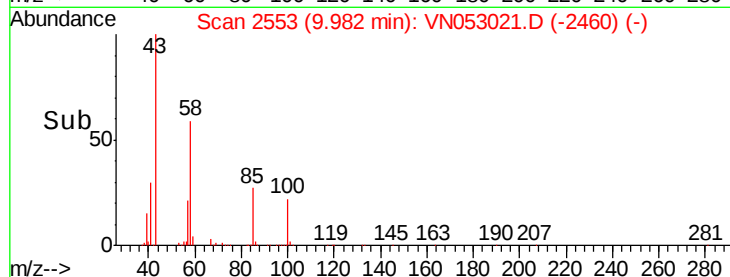
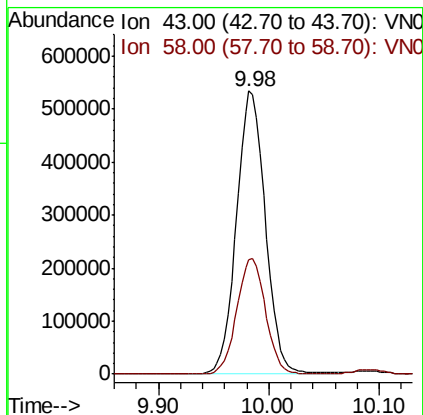
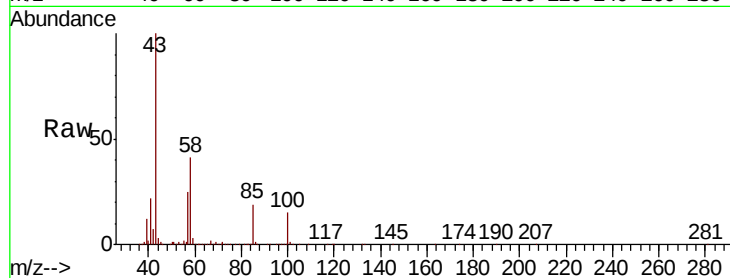
58 40.9 32.2 48.4

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#52

Toluene

Concen: 19.570 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053021.D

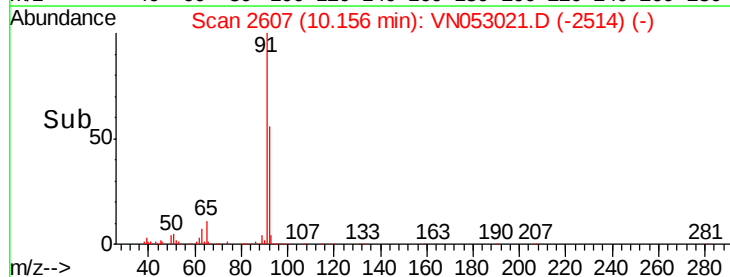
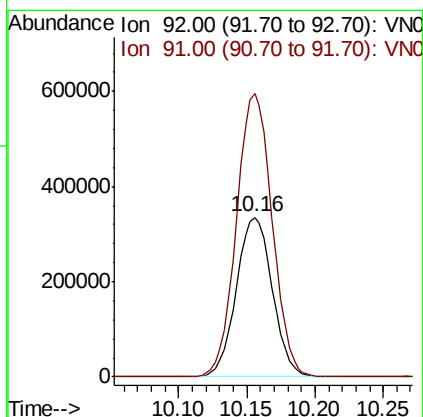
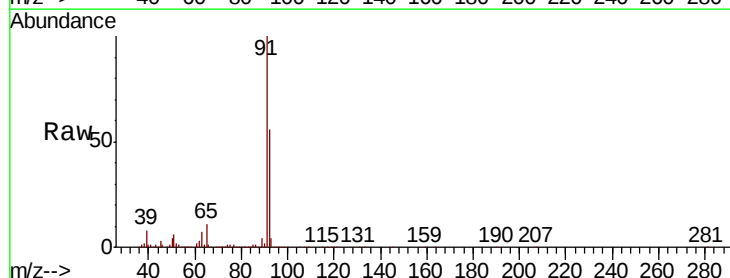
Acq: 19 Dec 2018 19:43

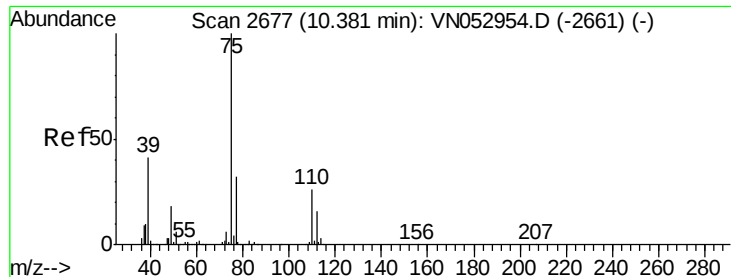
Tgt Ion: 92 Resp: 611167

Ion Ratio Lower Upper

92 100

91 176.7 139.8 209.6





#53

t-1,3-Dichloropropene

Concen: 18.198 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD01

Tot Ion: 75 Resp: 310971

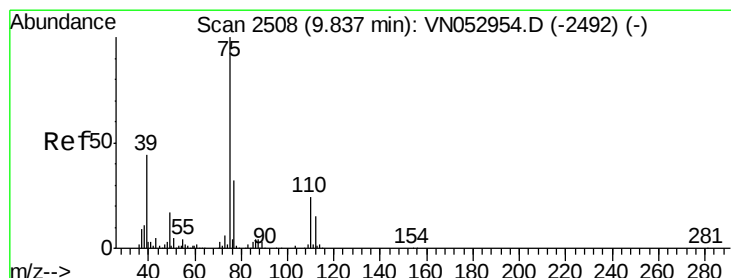
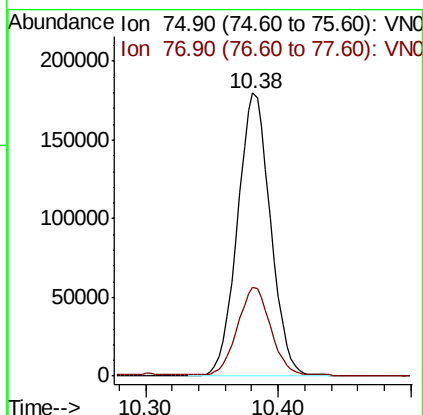
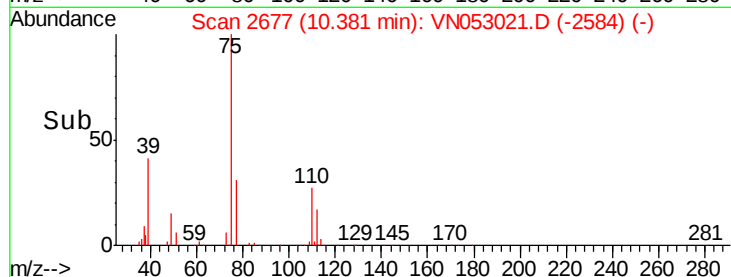
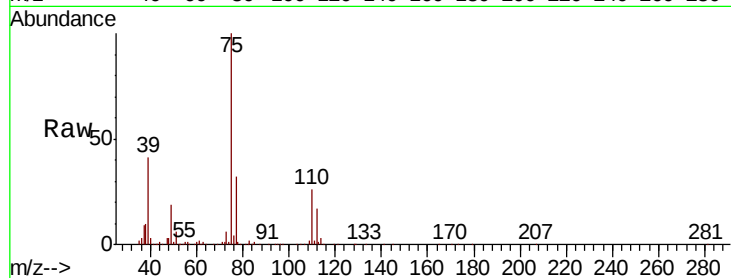
Ion Ratio Lower Upper

75 100

77 31.2 25.6 38.4

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#54

cis-1,3-Dichloropropene

Concen: 18.989 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

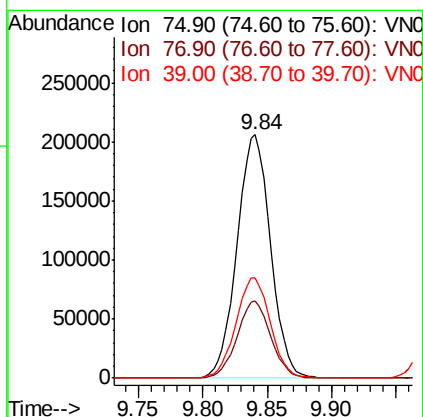
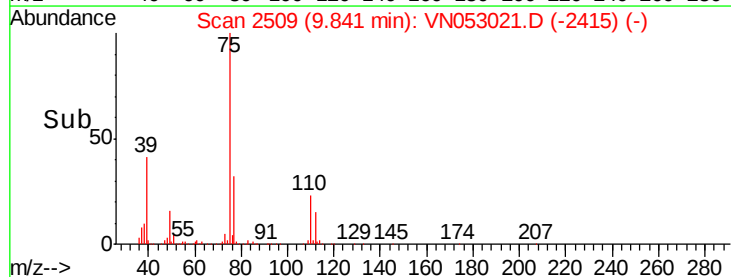
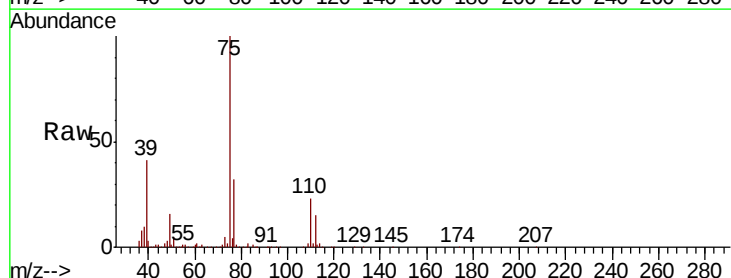
Tgt Ion: 75 Resp: 372467

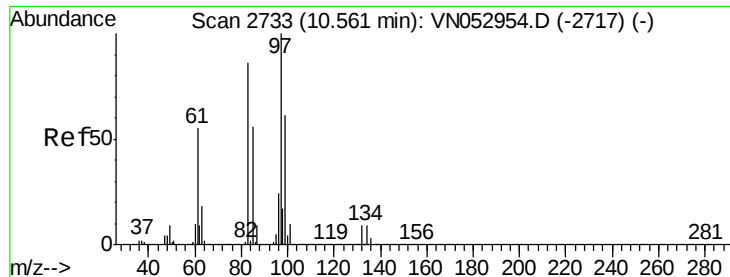
Ion Ratio Lower Upper

75 100

77 31.5 25.8 38.8

39 41.1 34.8 52.2





#55

1,1,2-Trichloroethane

Concen: 19.802 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

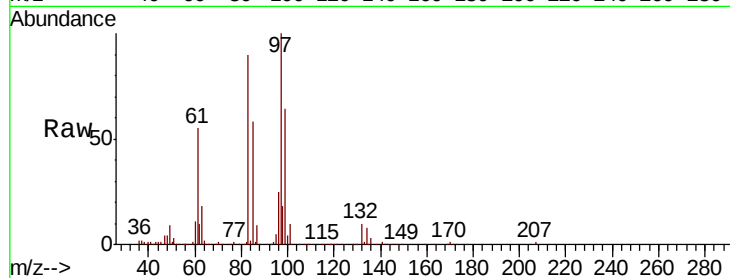
ClientSampleId :

VN1219MBSD01

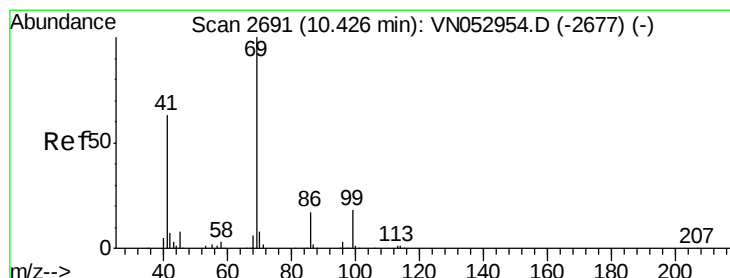
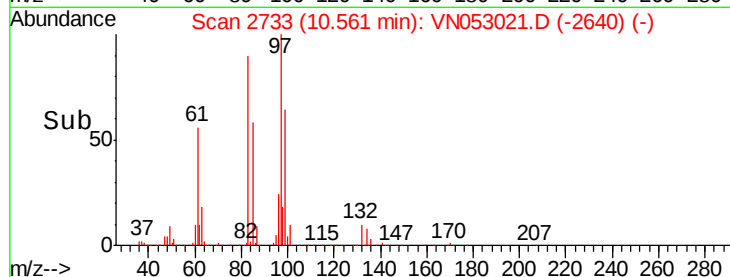
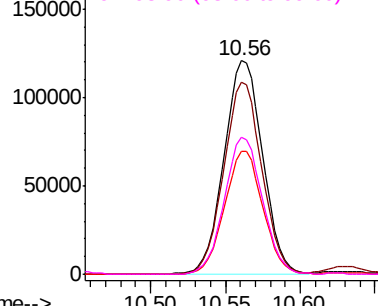
Tot Ion:	97	Resp:	215737
Ion	Ratio	Lower	Upper
97	100		
83	90.0	70.9	106.3
85	57.8	45.4	68.2
99	64.1	50.4	75.6

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Abundance Ion 96.90 (96.60 to 97.60): VN053021.D (-2640) (-)



#56

Ethyl methacrylate

Concen: 20.287 ug/l

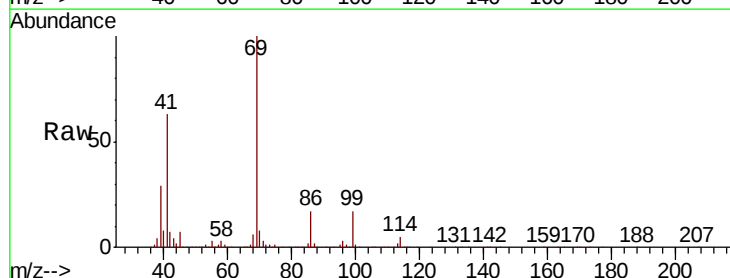
RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

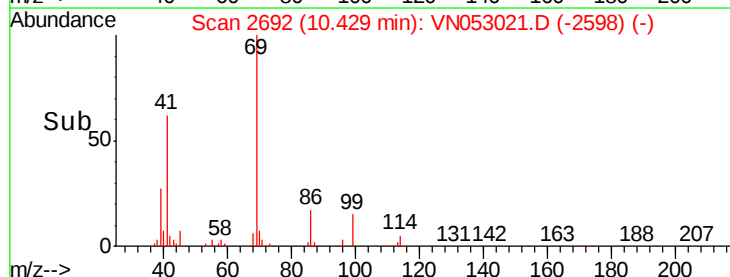
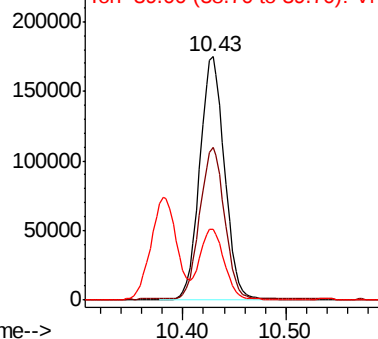
Lab File: VN053021.D

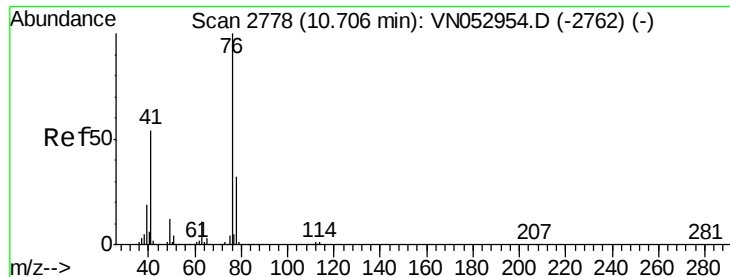
Acq: 19 Dec 2018 19:43

Tgt Ion:	69	Resp:	292550
Ion	Ratio	Lower	Upper
69	100		
41	62.3	51.7	77.5
39	28.9	24.6	37.0



Abundance Ion 69.00 (68.70 to 69.70): VN053021.D (-2598) (-)





#57

1,3-Dichloropropane

Concen: 20.188 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD01

Tot Ion: 76 Resp: 377161

Ion Ratio Lower Upper

76 100

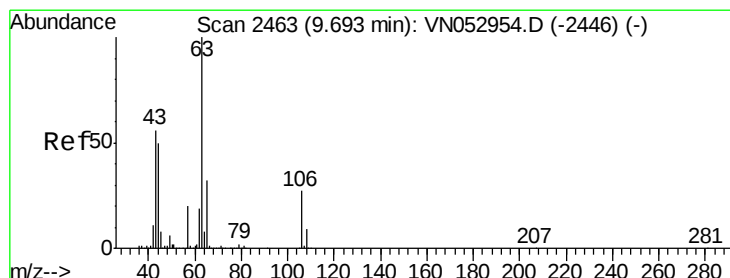
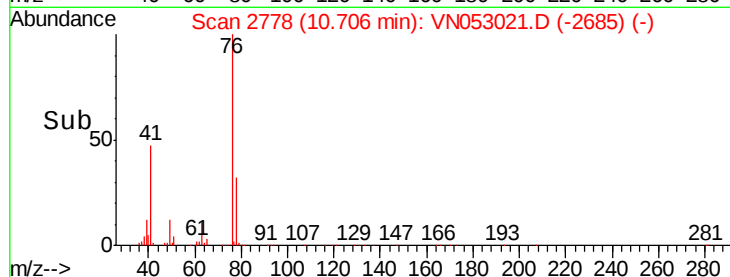
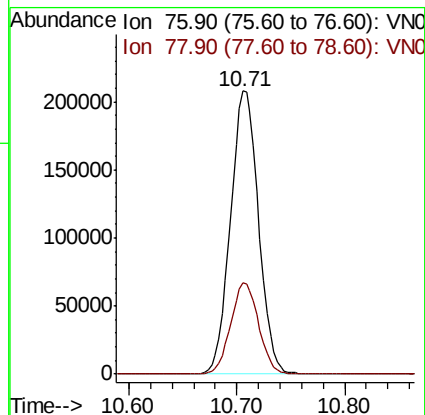
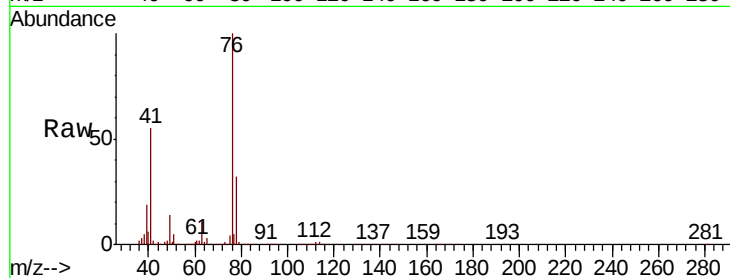
78 32.1 25.8 38.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 103.463 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053021.D

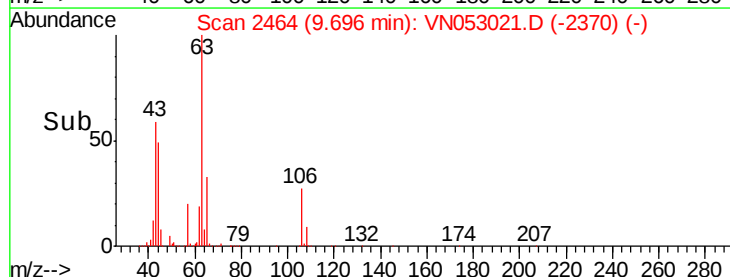
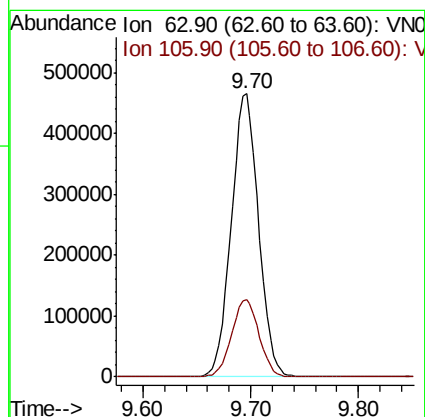
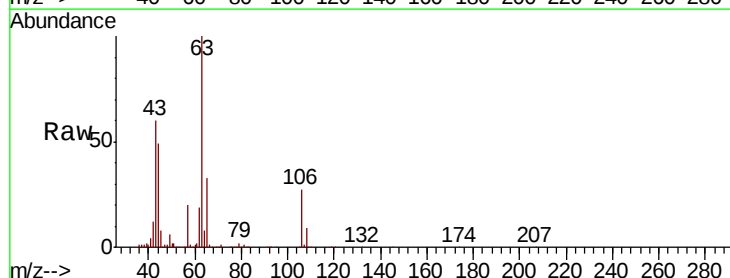
Acq: 19 Dec 2018 19:43

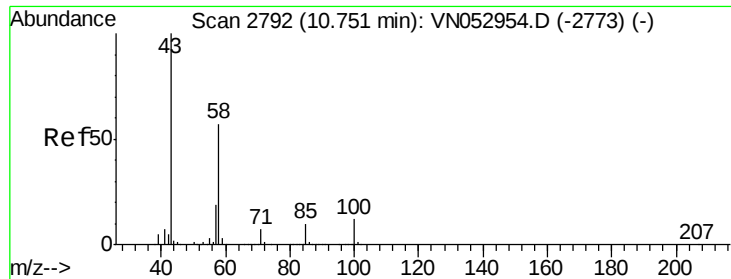
Tgt Ion: 63 Resp: 819089

Ion Ratio Lower Upper

63 100

106 27.5 21.0 31.6





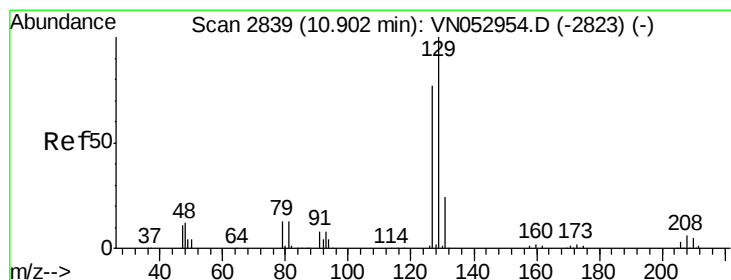
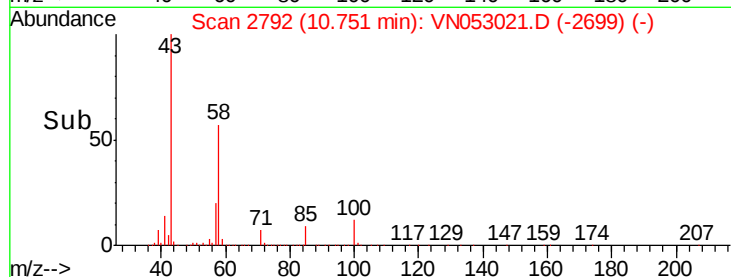
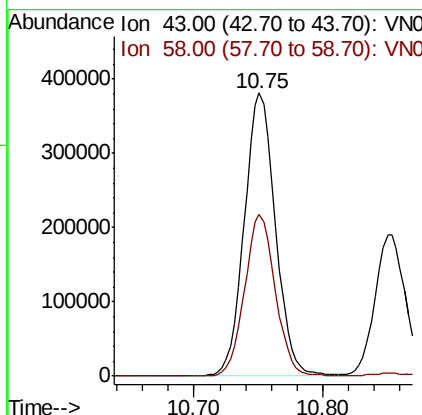
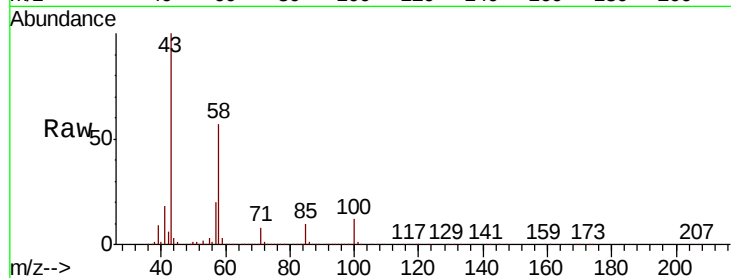
#59
2-Hexanone
Concen: 102.924 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion: 43 Resp: 637684
Ion Ratio Lower Upper
43 100
58 56.6 28.1 84.3

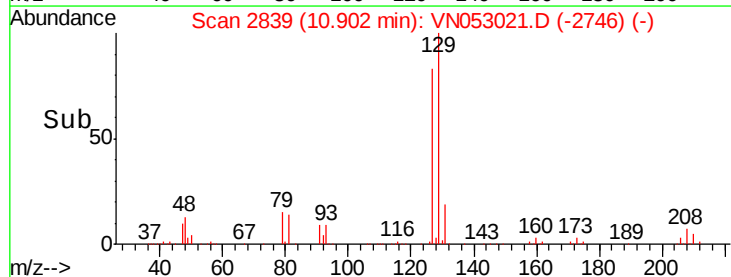
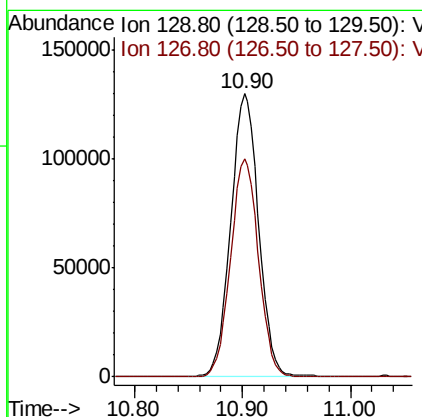
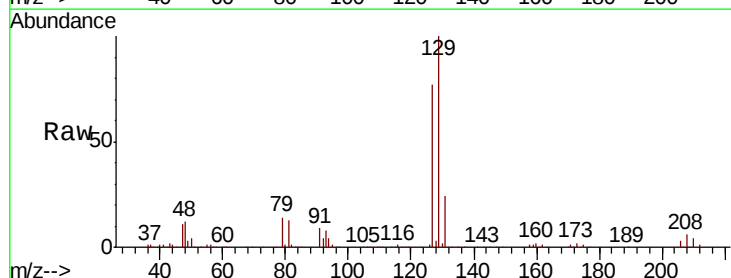
Manual Integrations
APPROVED

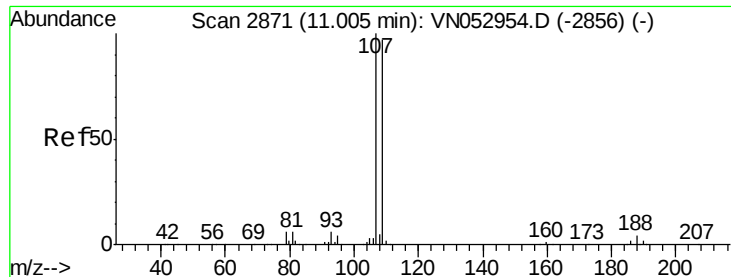
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#60
Dibromochloromethane
Concen: 18.648 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion: 129 Resp: 232554
Ion Ratio Lower Upper
129 100
127 77.6 38.6 116.0





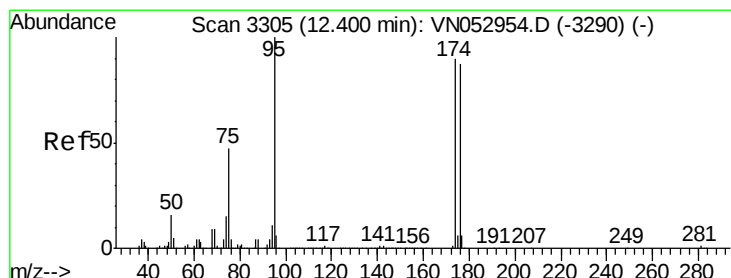
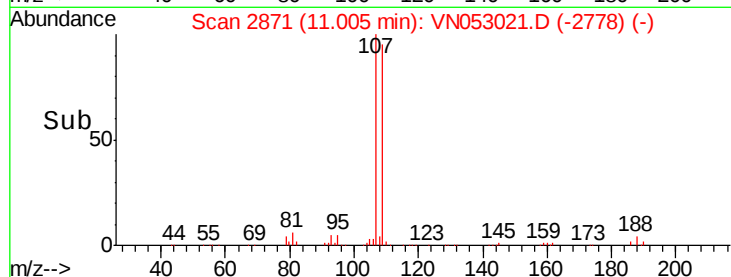
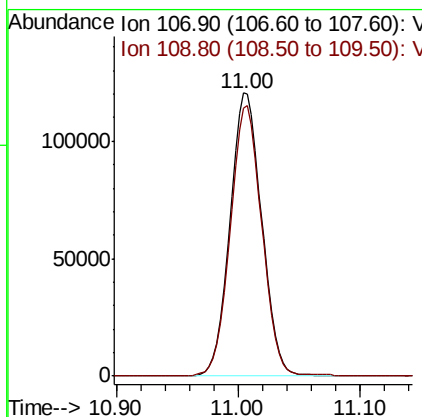
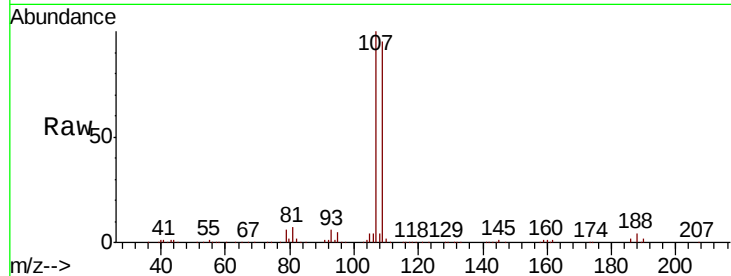
#61
1,2-Dibromoethane
Concen: 19.511 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.4	113.0

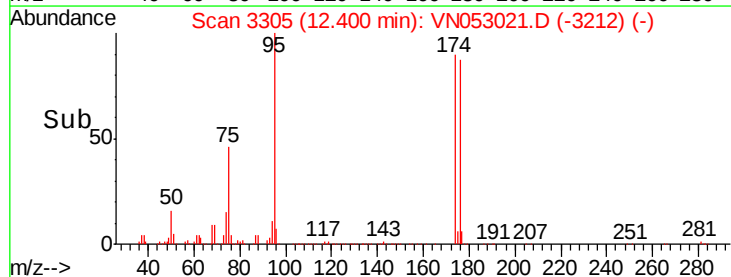
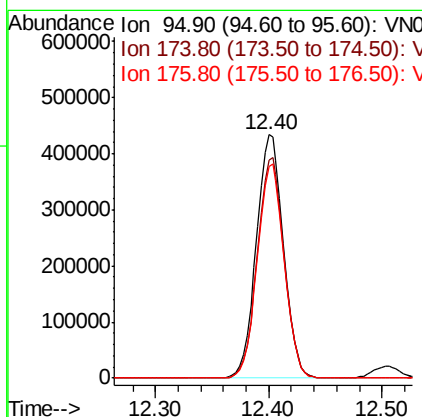
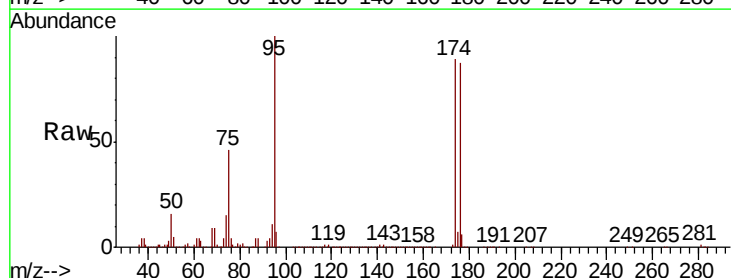
Manual Integrations
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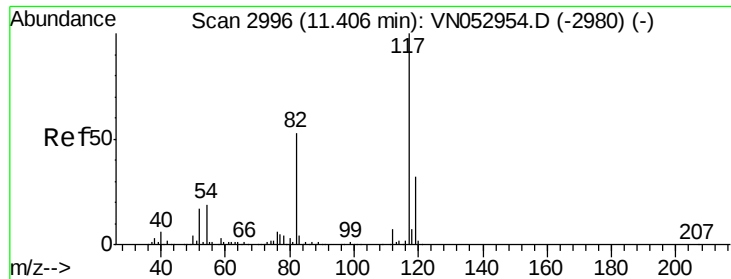
MMDadoda
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#62
4-Bromofluorobenzene
Concen: 19.511 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.6	0.0	178.8
176	87.5	0.0	173.8





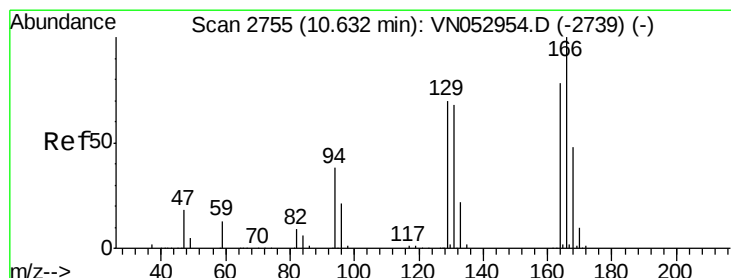
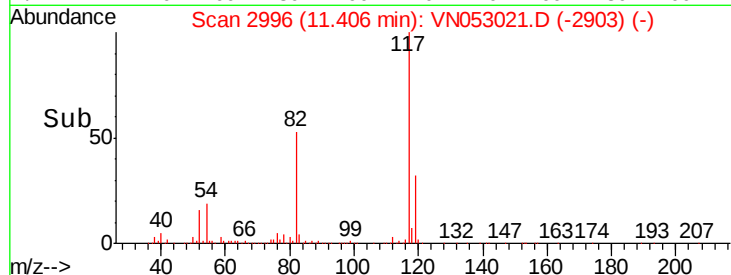
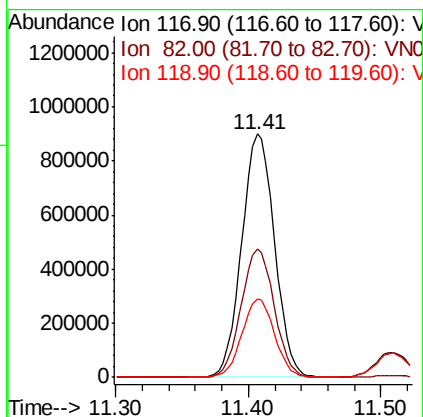
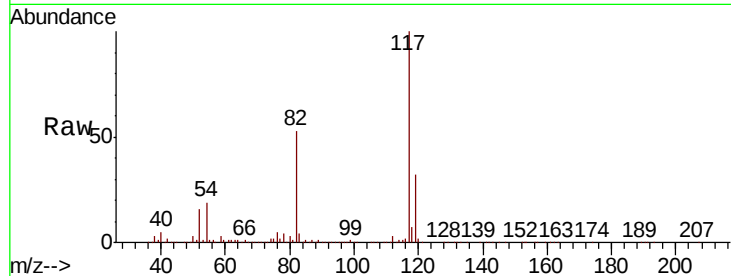
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.8	64.2
119	32.3	25.5	38.3

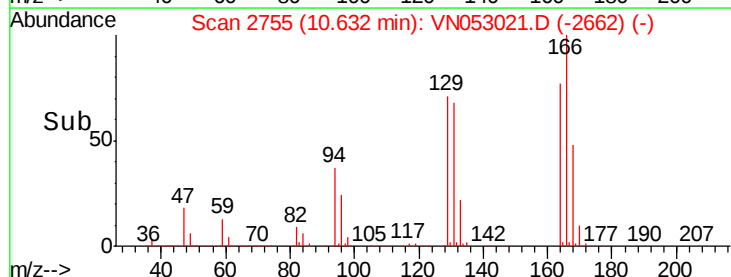
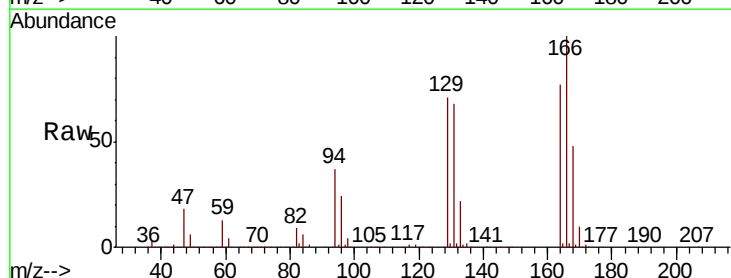
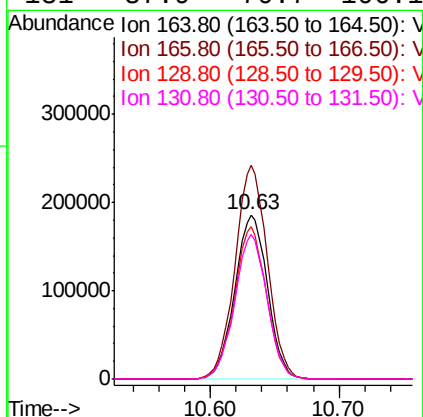
Manual Integrations
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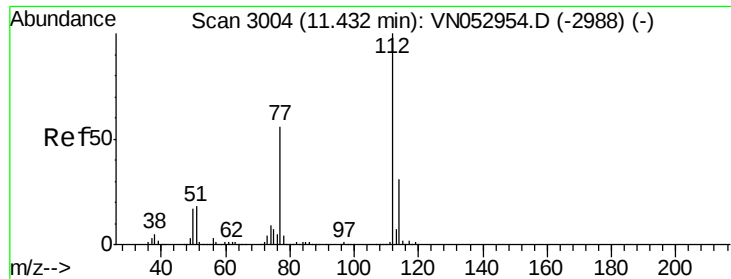
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#64
Tetrachloroethene
Concen: 19.587 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.9	102.9	154.3
129	92.5	73.7	110.5
131	87.9	70.7	106.1





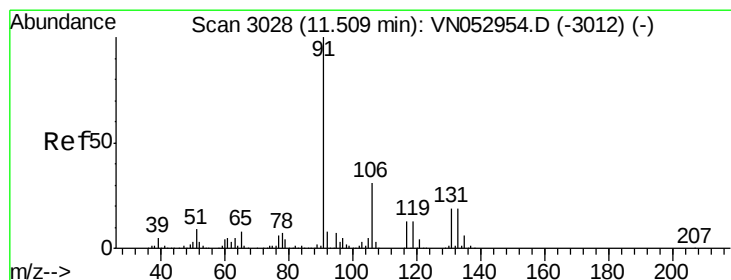
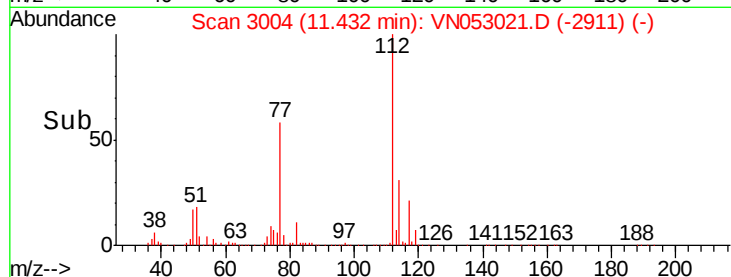
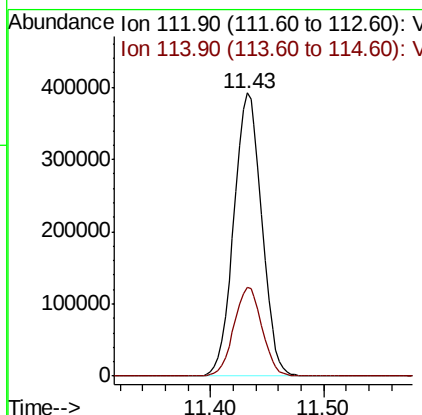
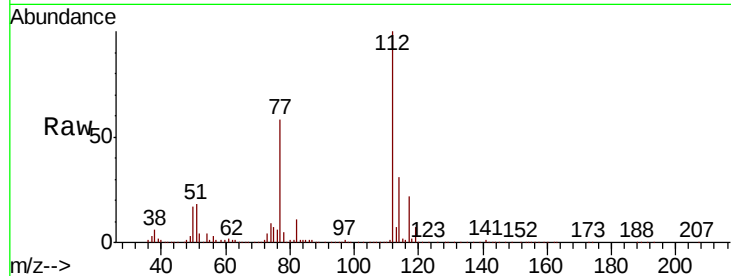
#65
Chlorobenzene
Concen: 19.699 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.5	38.3

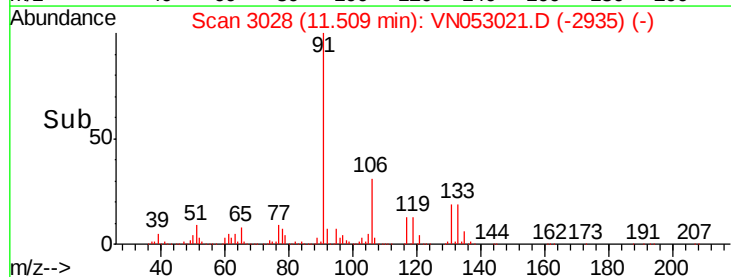
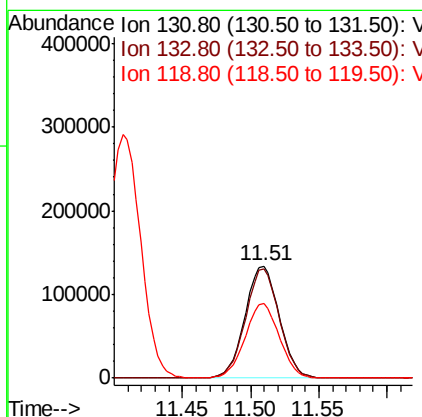
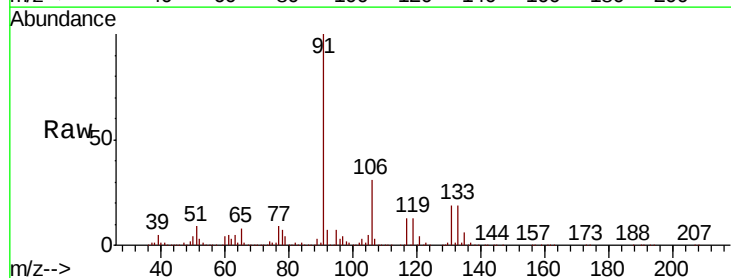
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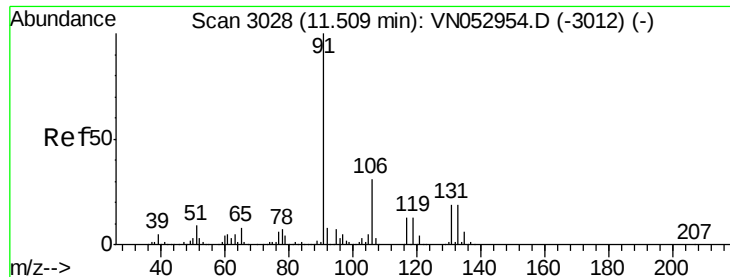
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.510 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.6	142.9
119	66.0	33.3	99.8





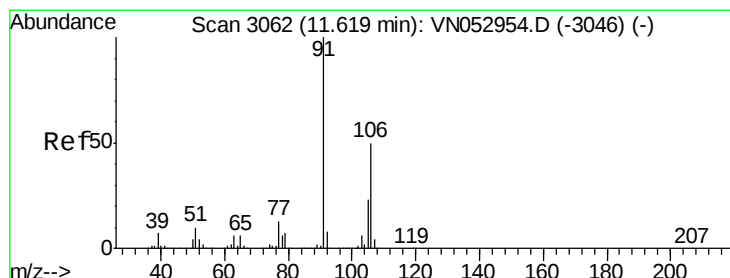
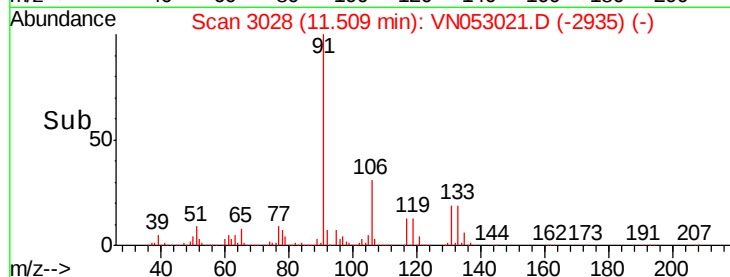
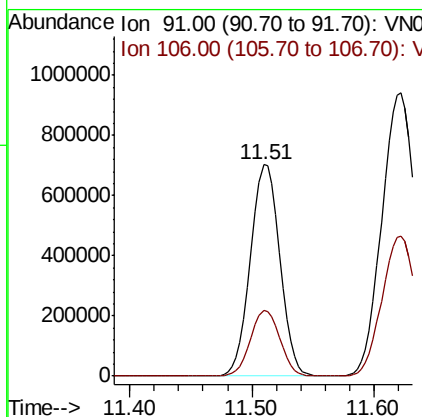
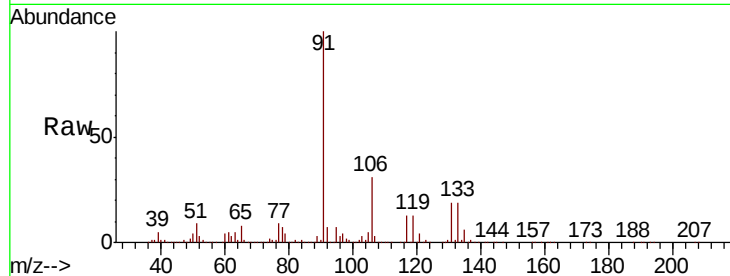
#67
Ethyl Benzene
Concen: 19.816 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion: 91 Resp: 1166381
Ion Ratio Lower Upper
91 100
106 31.0 24.9 37.3

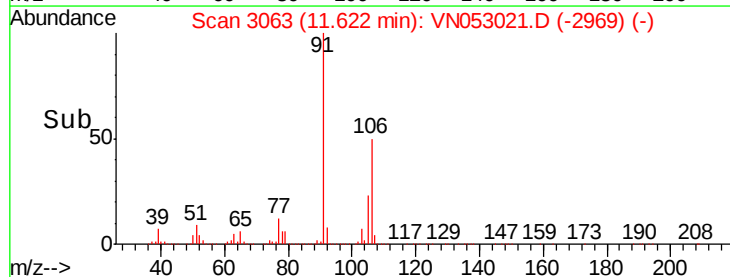
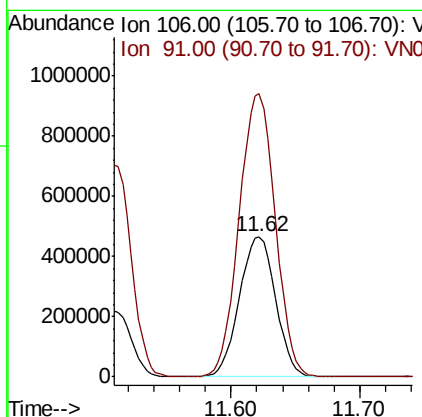
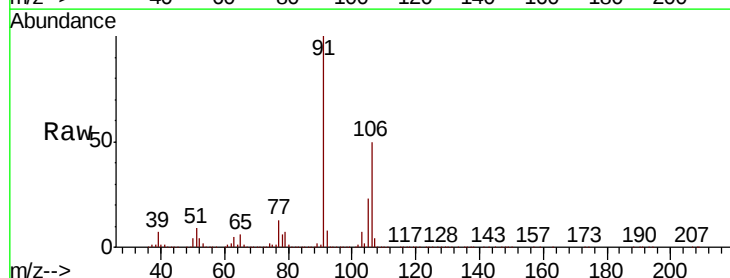
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#68
m/p-Xylenes
Concen: 40.559 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion: 106 Resp: 907572
Ion Ratio Lower Upper
106 100
91 201.7 162.2 243.4





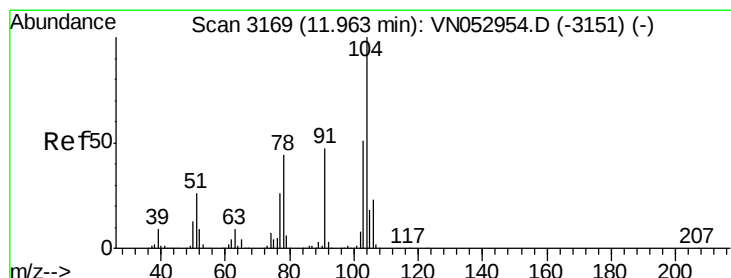
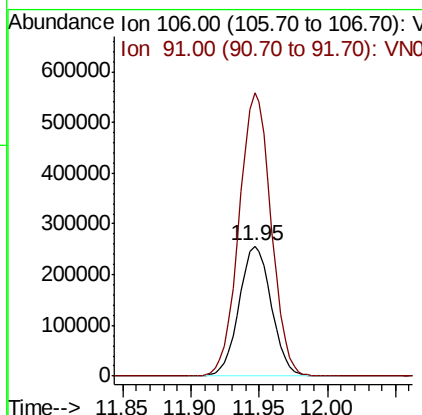
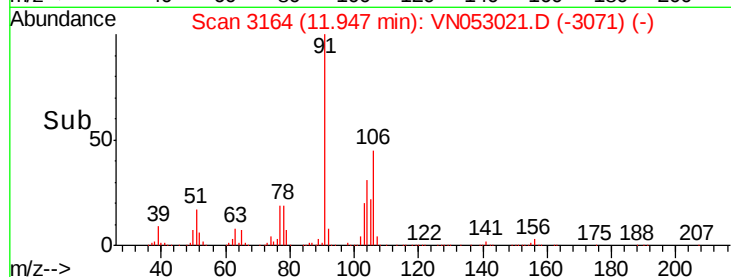
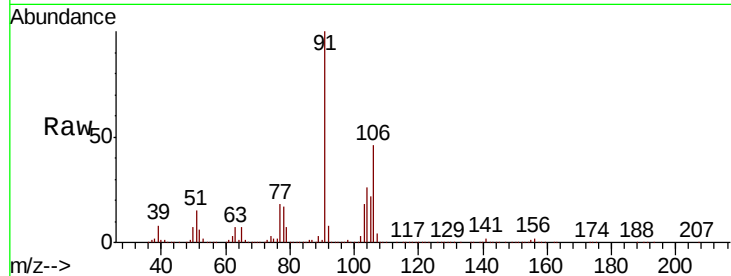
#69
o-Xylene
Concen: 19.546 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBS01

Tot Ion:106 Resp: 419700
Ion Ratio Lower Upper
106 100
91 215.9 106.6 319.8

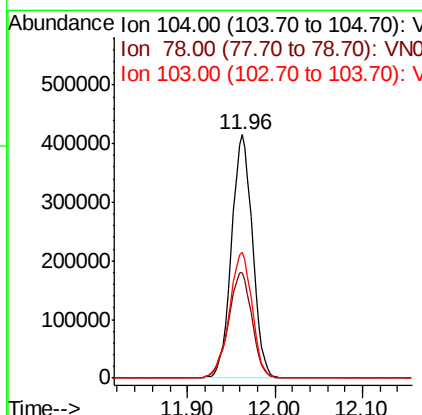
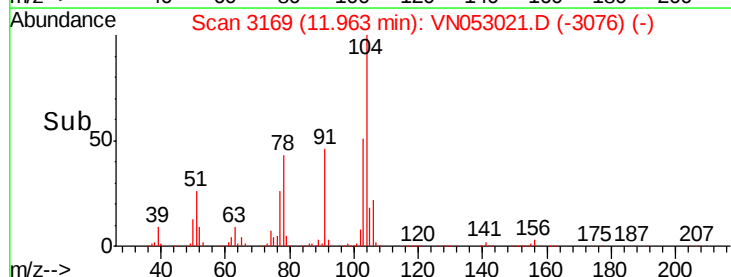
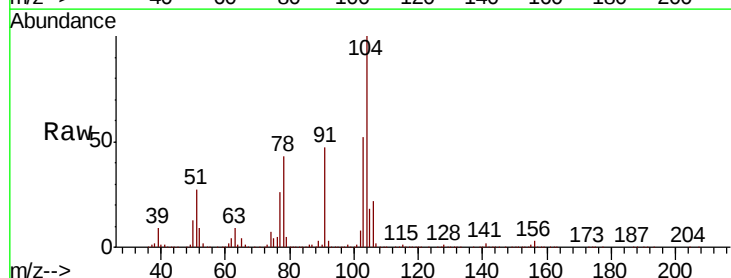
Manual Integrations
APPROVED

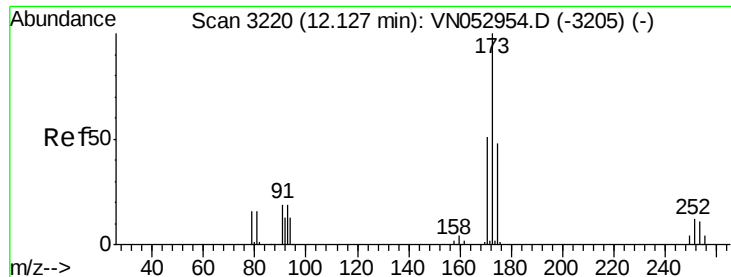
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#70
Styrene
Concen: 19.708 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion:104 Resp: 690036
Ion Ratio Lower Upper
104 100
78 48.5 38.9 58.3
103 55.8 44.3 66.5





#71

Bromoform

Concen: 17.570 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD01

Tot Ion:173 Resp: 151076

Ion Ratio Lower Upper

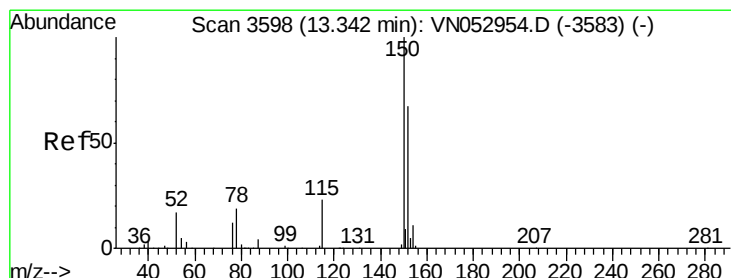
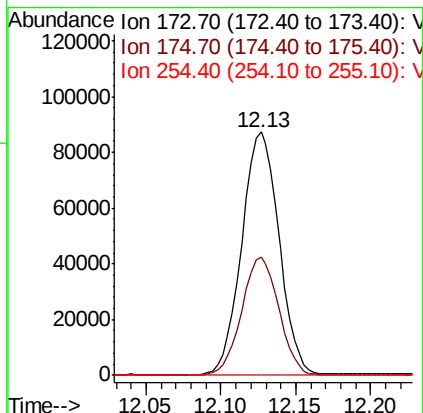
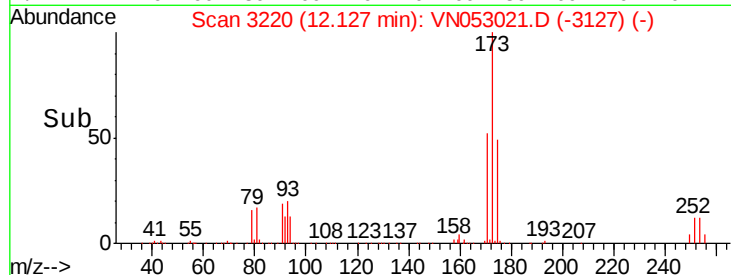
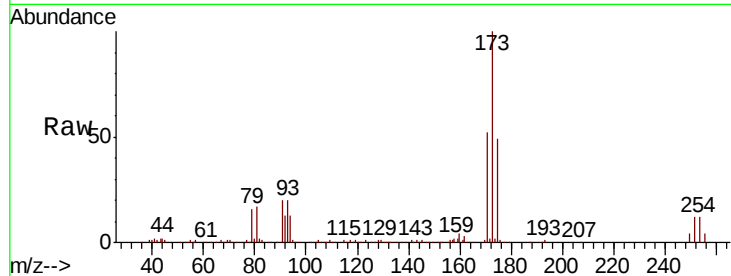
173 100

175 48.7 24.3 72.9

254 0.0 0.1 0.1#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

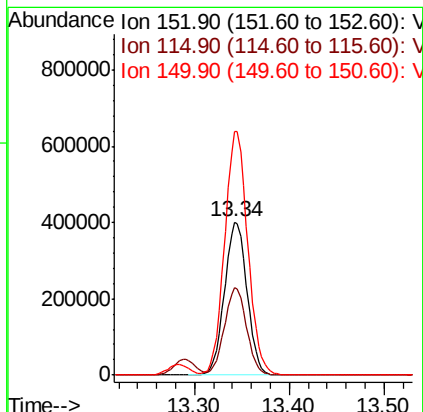
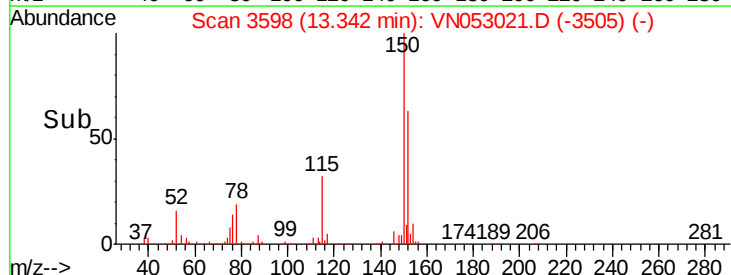
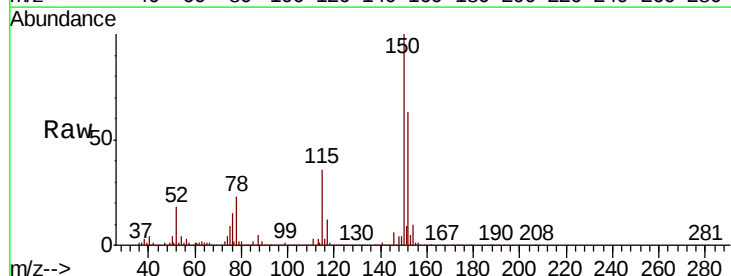
Tgt Ion:152 Resp: 662567

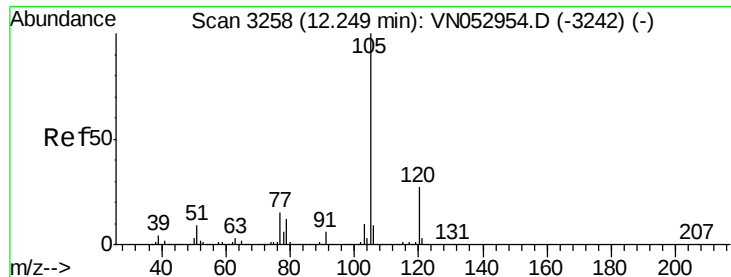
Ion Ratio Lower Upper

152 100

115 56.5 28.3 85.0

150 163.5 0.0 347.8





#73

Isopropylbenzene

Concen: 21.606 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD01

Tot Ion:105 Resp: 1120049

Ion Ratio Lower Upper

105 100

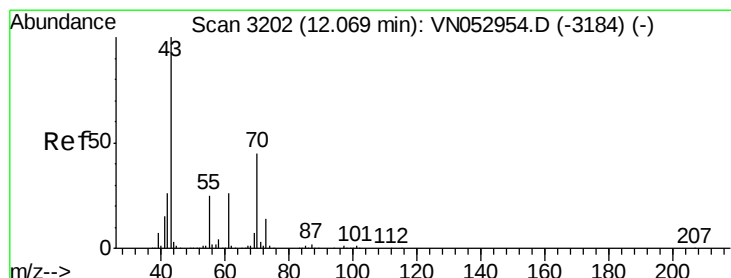
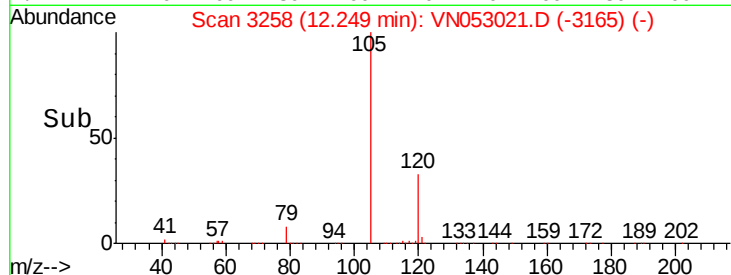
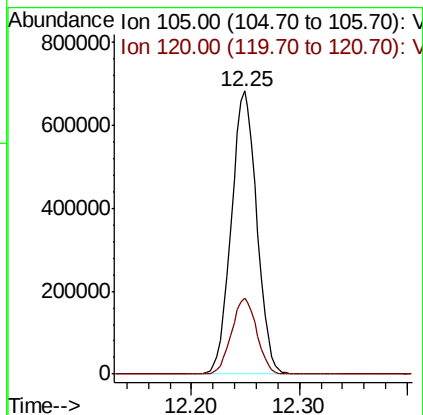
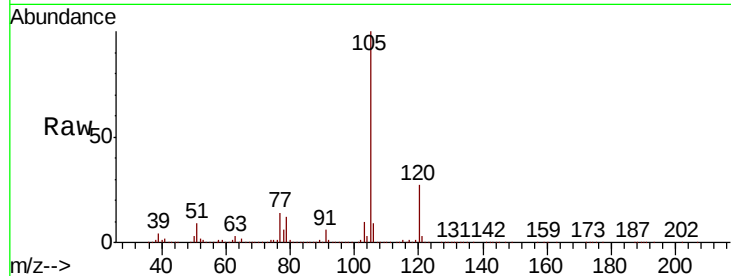
120 26.7 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 22.271 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Tgt Ion: 43 Resp: 320544

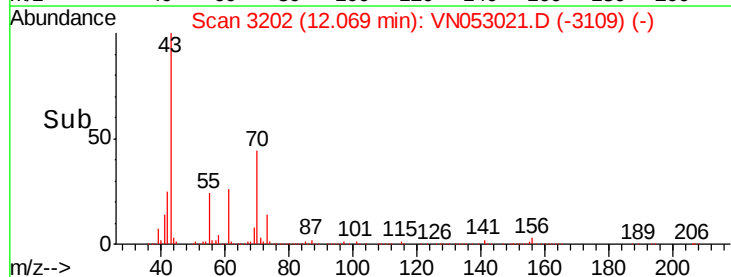
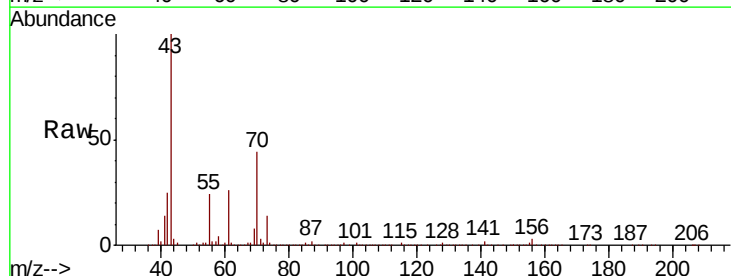
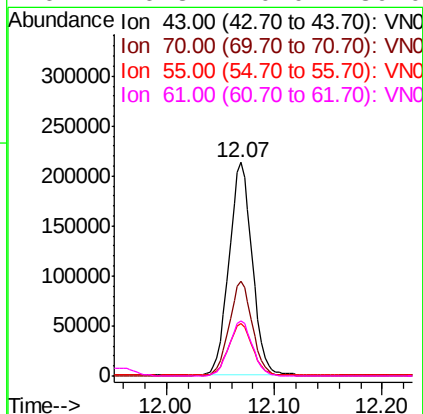
Ion Ratio Lower Upper

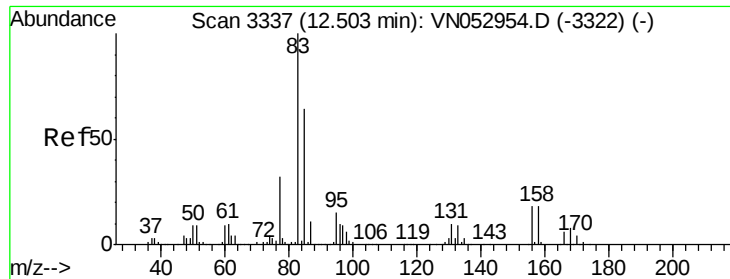
43 100

70 43.7 34.2 51.4

55 24.8 20.3 30.5

61 26.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.611 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

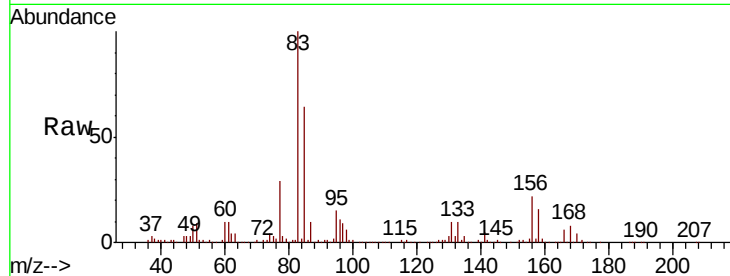
ClientSampleId :

VN1219MBSD01

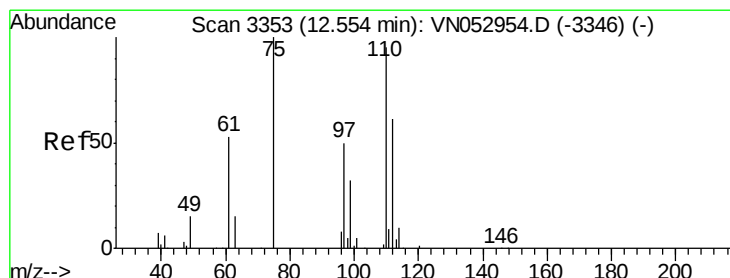
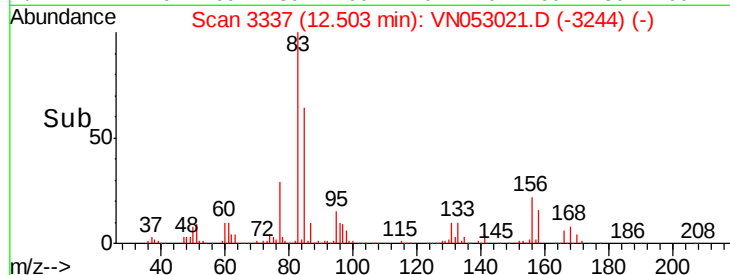
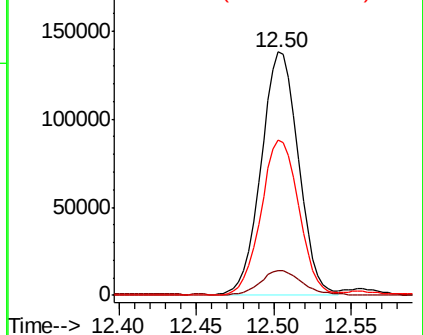
Tot Ion	83	Resp	229961
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.2	15.6
85	65.2	32.4	97.0

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Abundance Ion 82.90 (82.60 to 83.60): VN052954.D (-3322) (-)



#76

1,2,3-Trichloropropane

Concen: 18.617 ug/l m

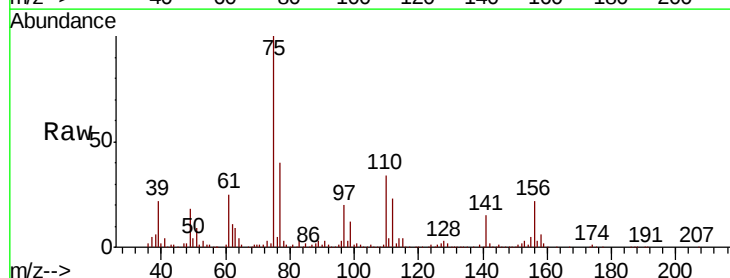
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

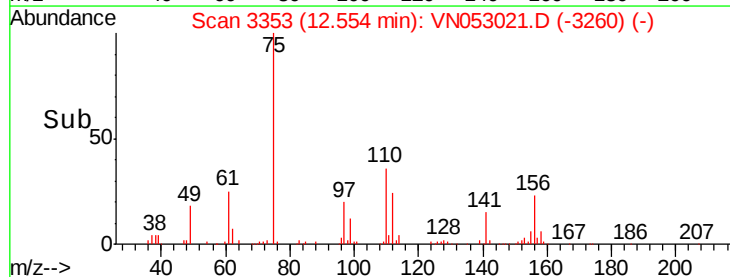
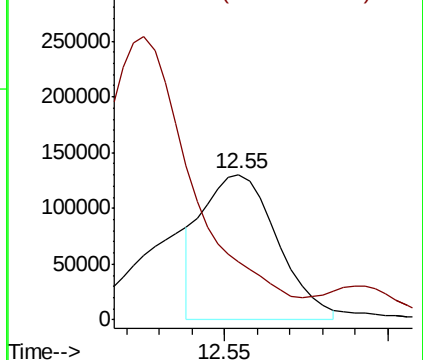
Lab File: VN053021.D

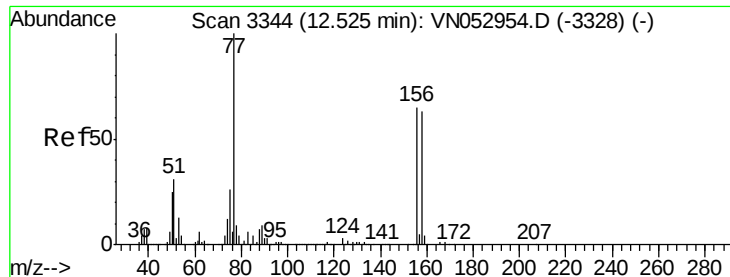
Acq: 19 Dec 2018 19:43

Tgt Ion	75	Resp	207651
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3346) (-)





#77

Bromobenzene

Concen: 31.406 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

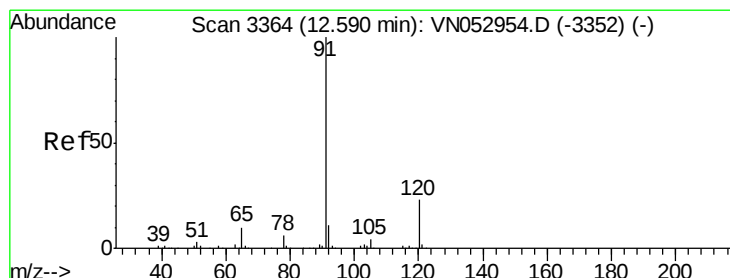
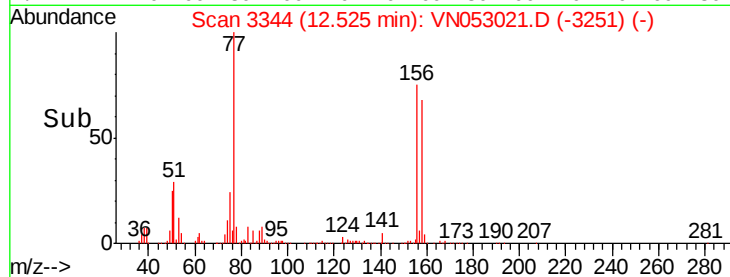
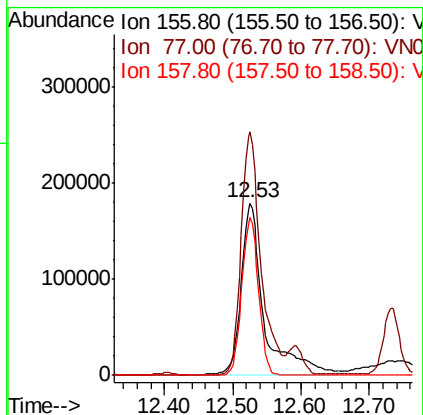
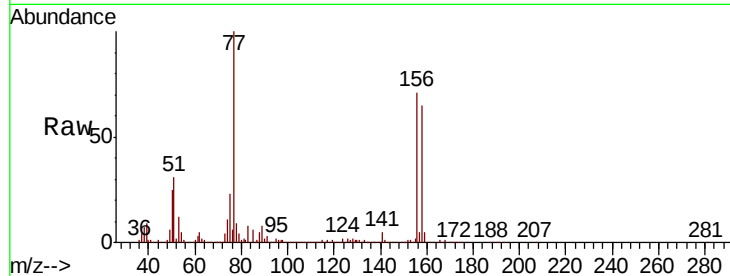
ClientSampleId :

VN1219MBSD01

Tot Ion:	156	Resp:	423208
Ion Ratio	Lower	Upper	
156	100		
77	119.6	91.3	273.8
158	66.1	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 20.885 ug/l

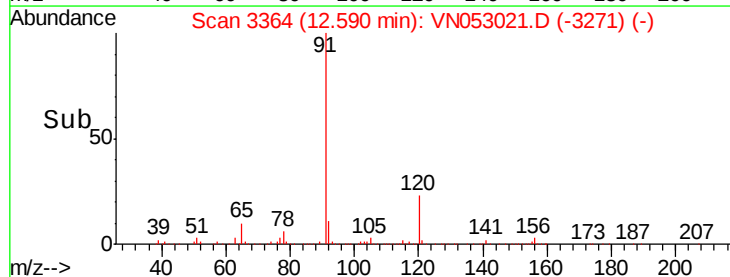
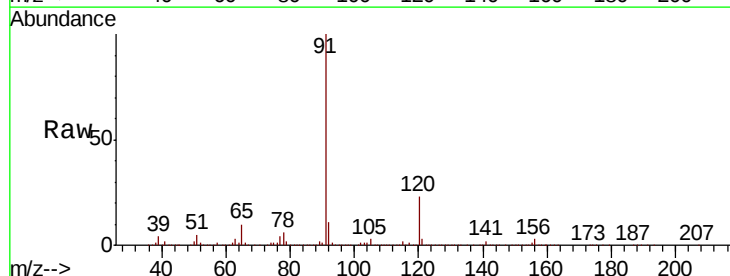
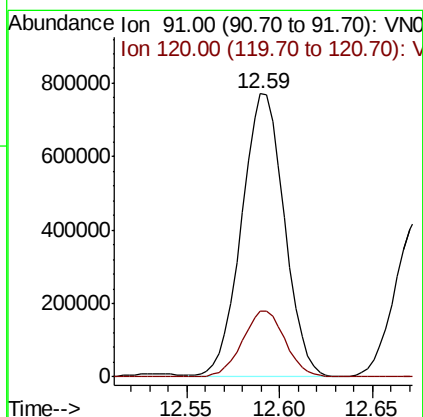
RT: 12.59 min Scan# 3364

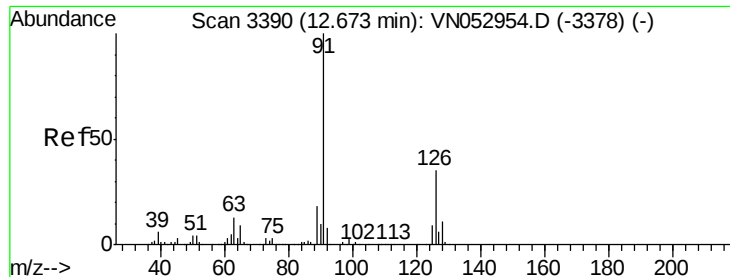
Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Tgt Ion:	91	Resp:	1233091
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.5	34.5





#79

2-Chlorotoluene

Concen: 19.746 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD01

Tot Ion: 91 Resp: 722618

Ion Ratio Lower Upper

91 100

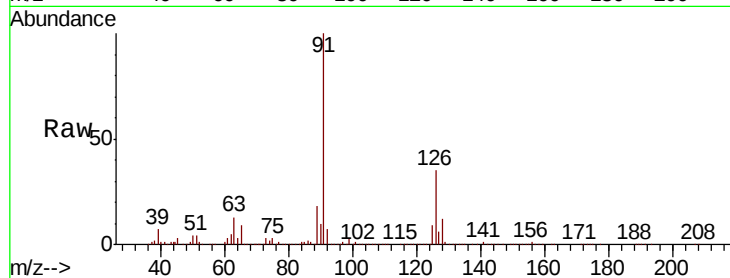
126 35.1 17.4 52.3

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052954.D (-3378) (-)

800000

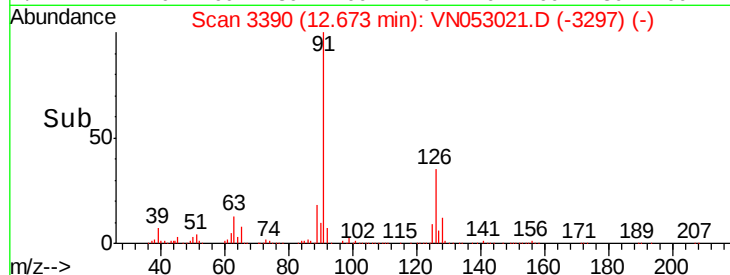
600000

400000

200000

0

12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 20.715 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053021.D

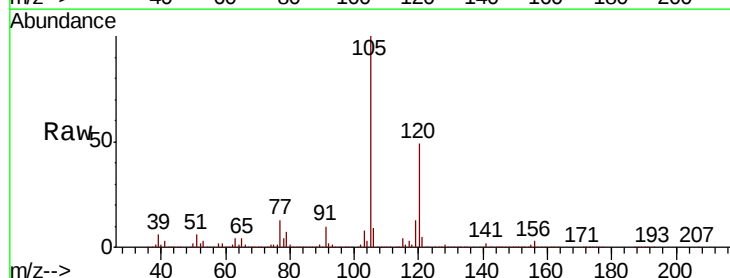
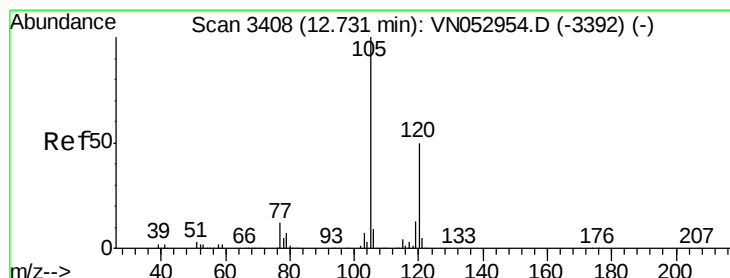
Acq: 19 Dec 2018 19:43

Tgt Ion: 105 Resp: 875291

Ion Ratio Lower Upper

105 100

120 48.9 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3392) (-)

600000

500000

400000

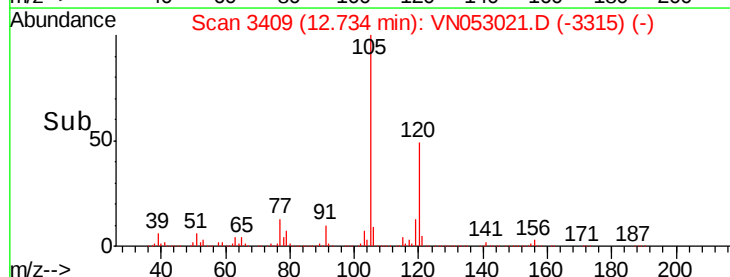
300000

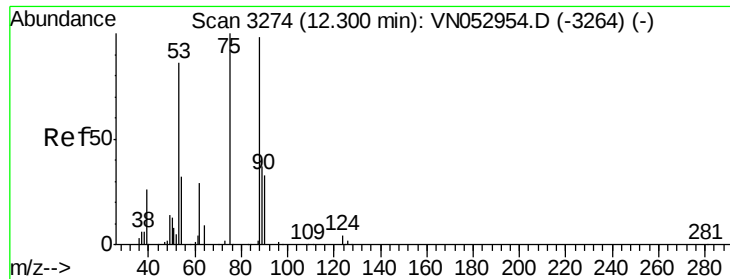
200000

100000

0

12.60 12.70 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 18.161 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD01

Tot Ion: 75 Resp: 62848

Ion Ratio Lower Upper

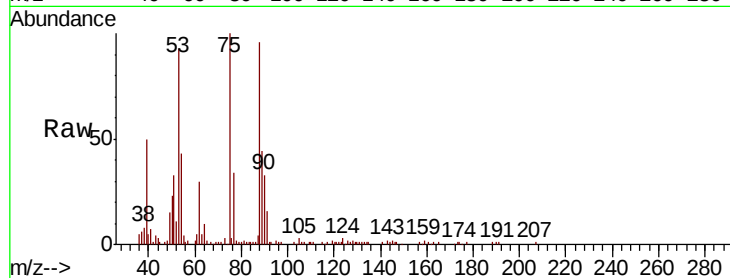
75 100

53 94.2 74.7 112.1

89 44.6 36.1 54.1

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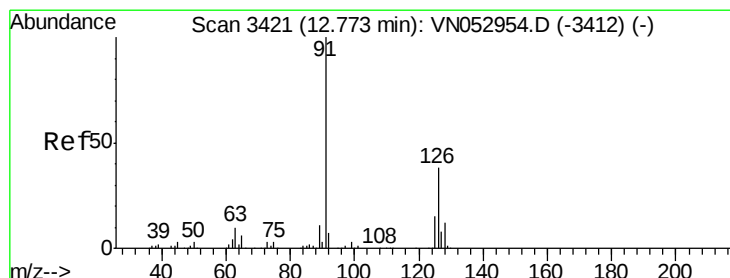
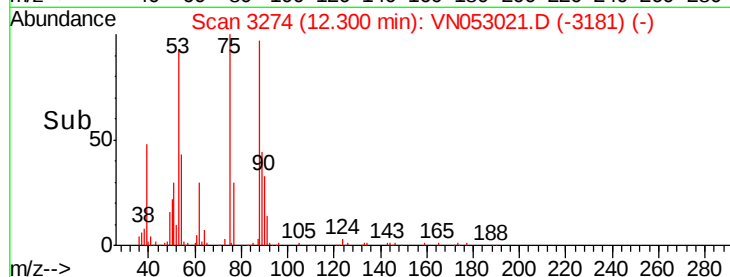
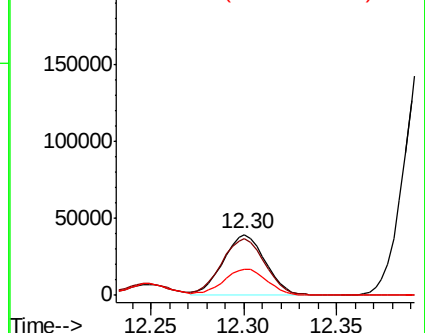
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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 20.423 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN053021.D

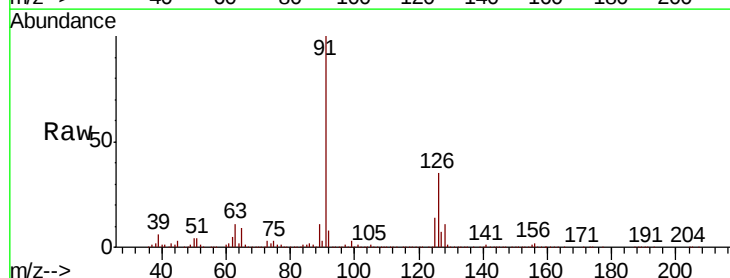
Acq: 19 Dec 2018 19:43

Tgt Ion: 91 Resp: 731629

Ion Ratio Lower Upper

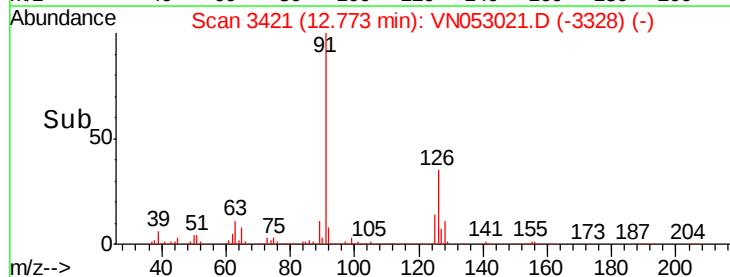
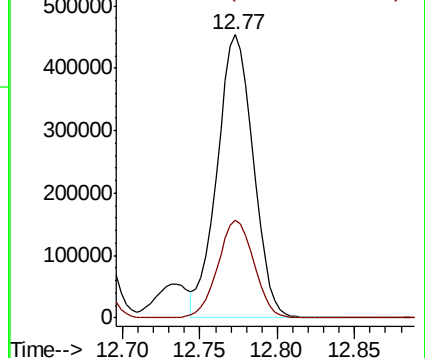
91 100

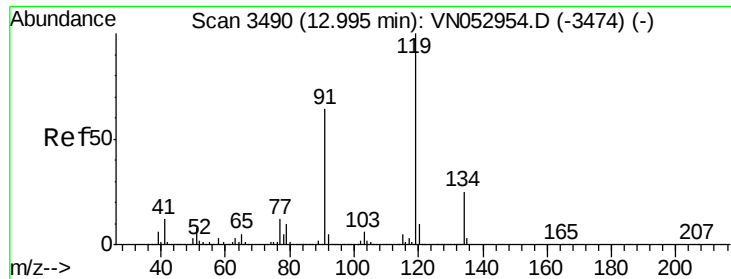
126 34.6 17.3 51.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





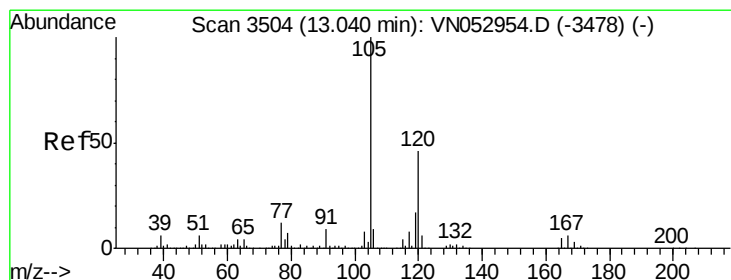
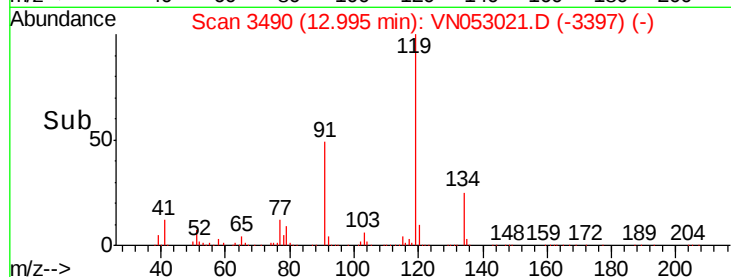
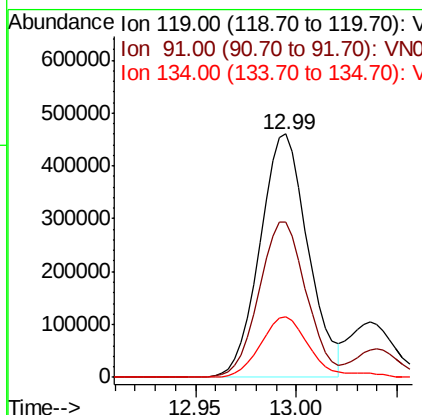
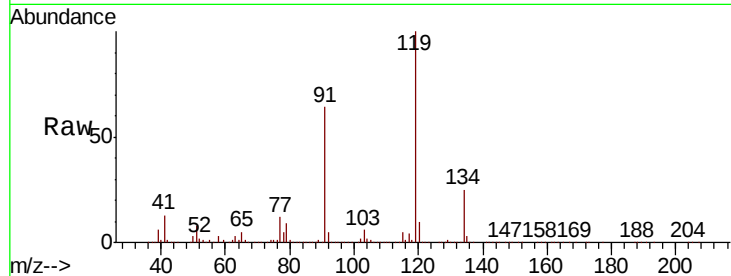
#83
 tert-Butylbenzene
 Concen: 20.362 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	760941		
91	62.8		31.9	95.5
134	26.2		12.8	38.4

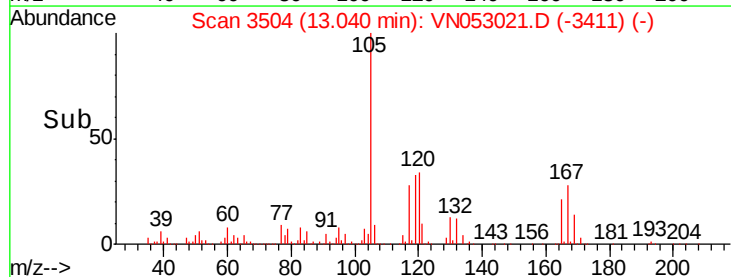
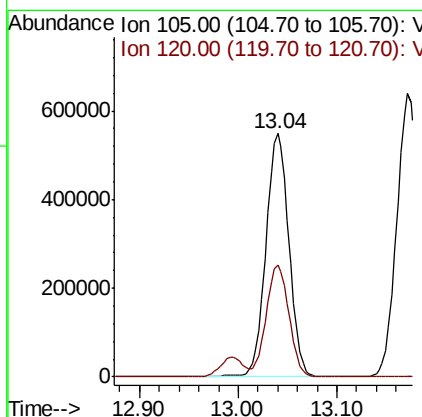
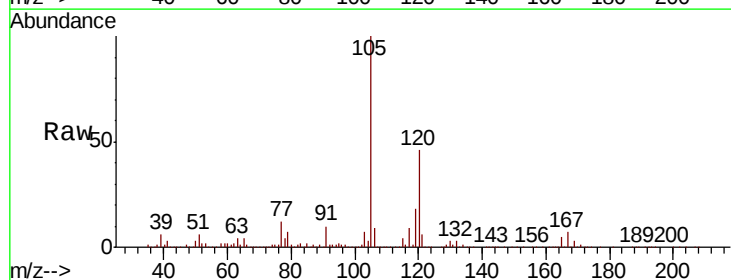
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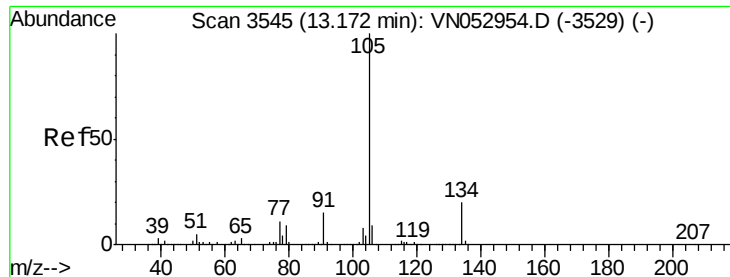
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.613 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	875592		
120	45.8		22.9	68.8





#85

sec-Butylbenzene

Concen: 19.828 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD01

Tot Ion:105 Resp: 1002258

Ion Ratio Lower Upper

105 100

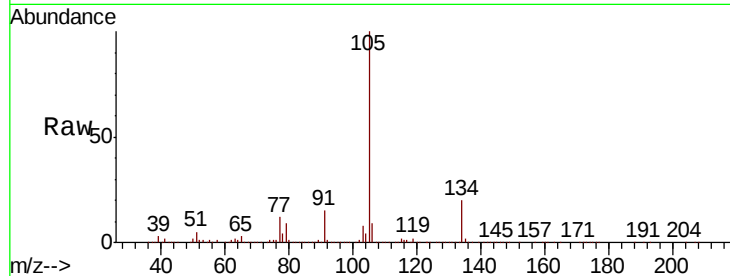
134 20.3 10.1 30.3

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

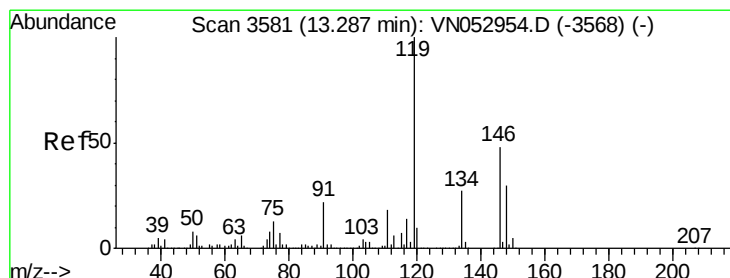
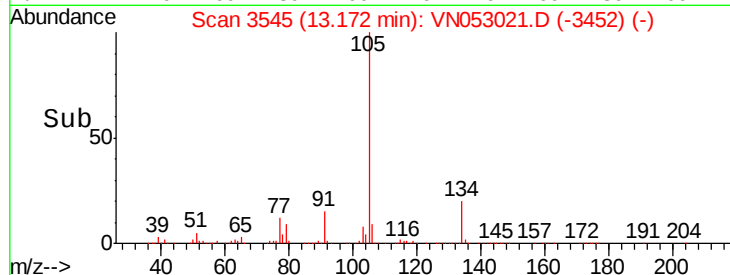
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.428 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053021.D

Acq: 19 Dec 2018 19:43

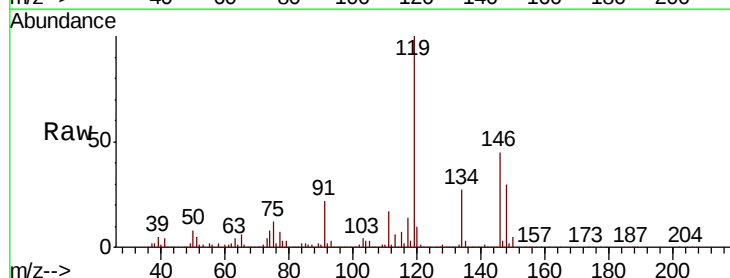
Tgt Ion:119 Resp: 848526

Ion Ratio Lower Upper

119 100

134 27.4 13.4 40.2

91 22.1 11.1 33.3



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

13.29

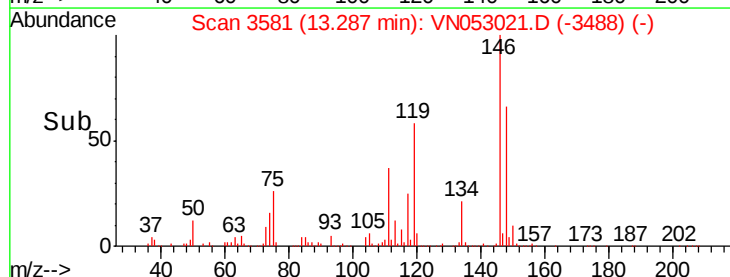
600000

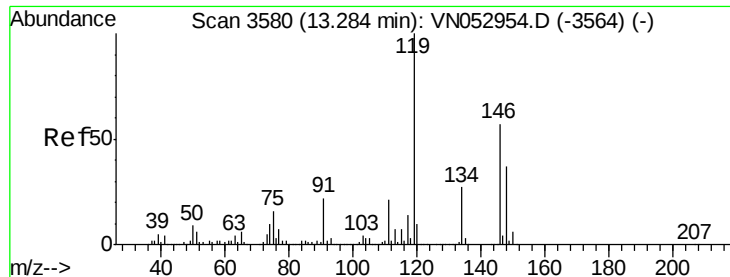
400000

200000

0

Time-->





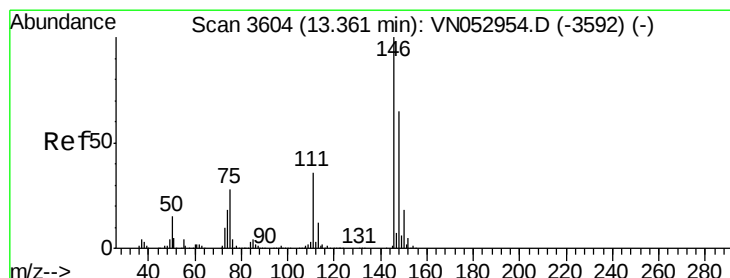
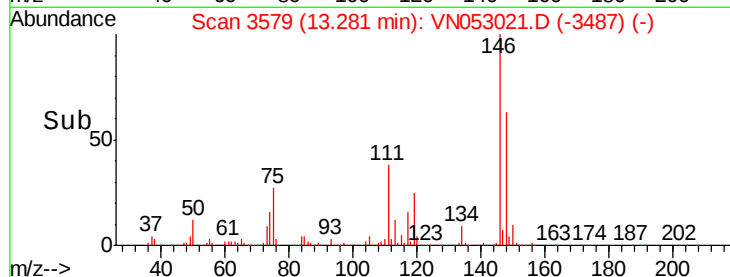
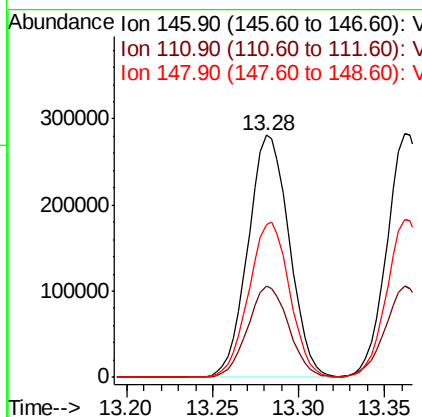
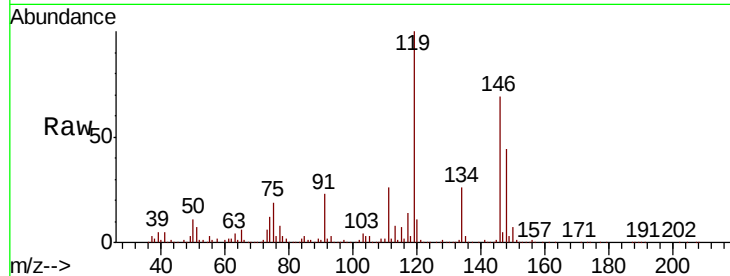
#87
 1,3-Dichlorobenzene
 Concen: 19.569 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	19.1	57.1
148	63.9	32.0	96.0

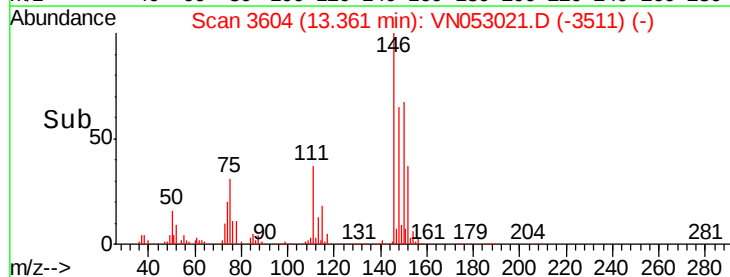
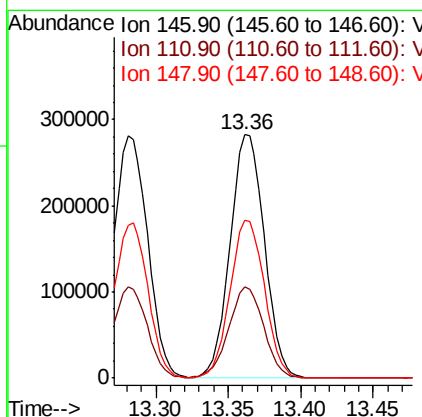
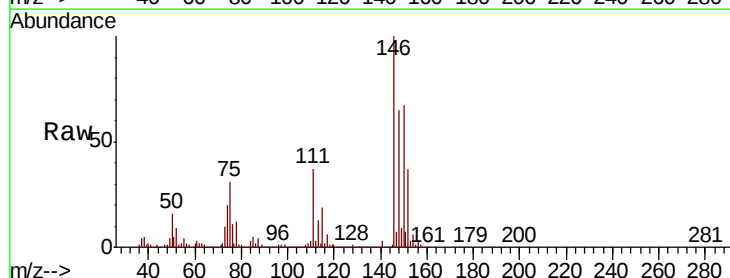
Manual Integrations
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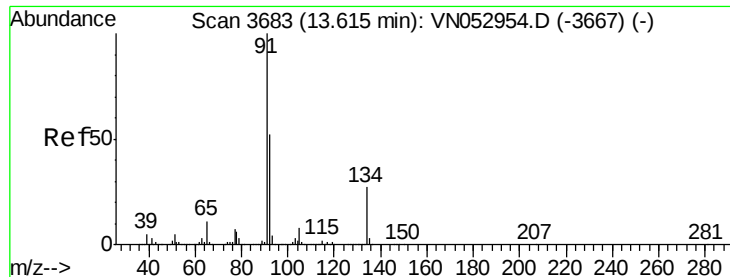
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#88
 1,4-Dichlorobenzene
 Concen: 19.188 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.6	55.8
148	65.3	32.1	96.5





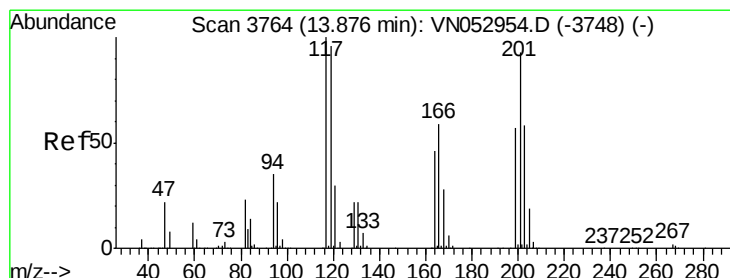
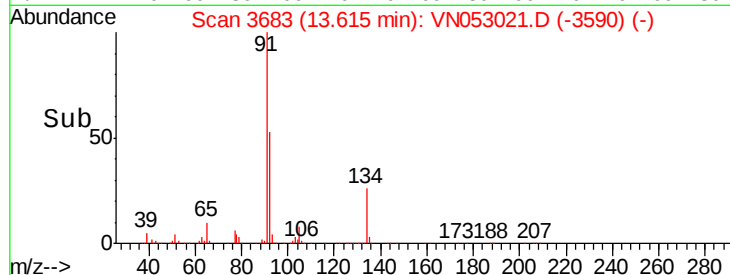
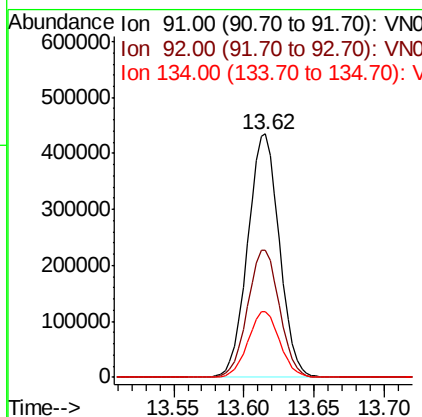
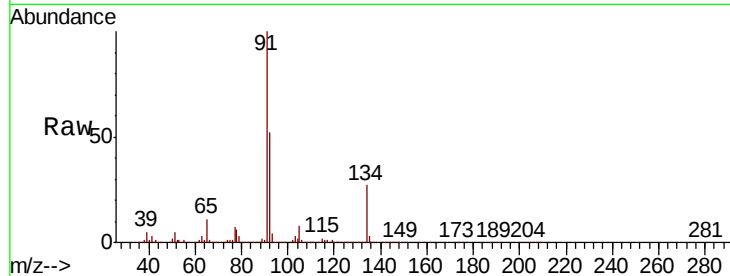
#89
n-Butylbenzene
Concen: 18.076 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.3	78.9
134	27.1	13.3	39.8

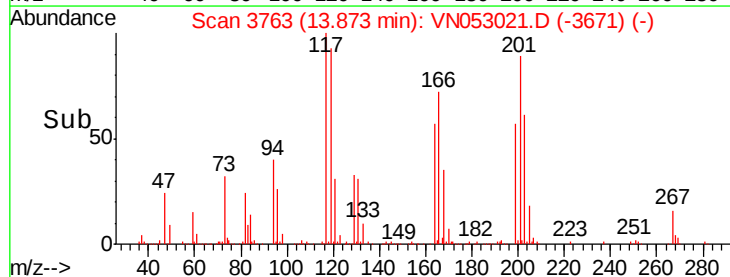
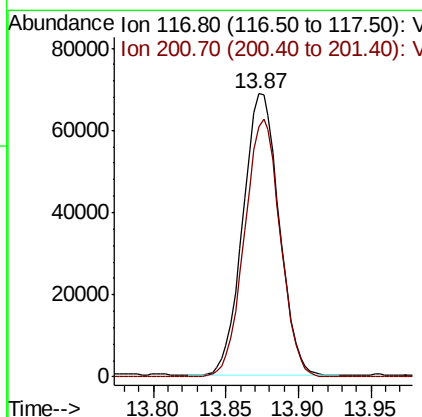
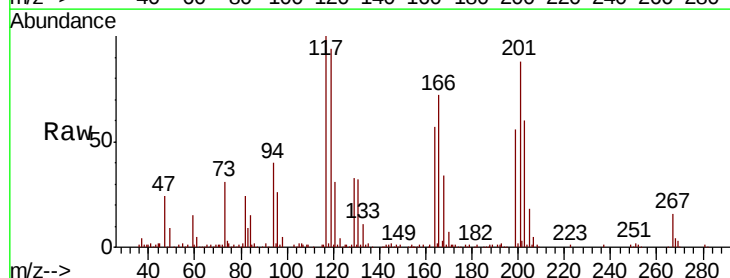
Manual Integrations
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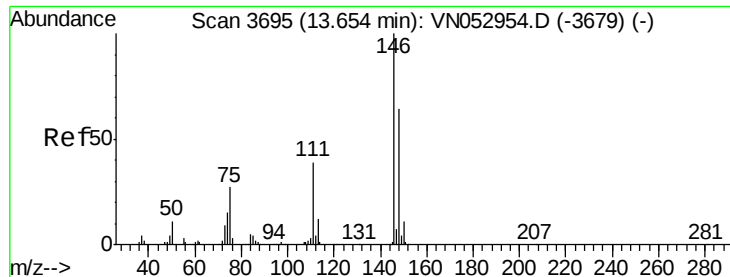
MMDadoda
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#90
Hexachloroethane
Concen: 17.871 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.8	45.7	137.1





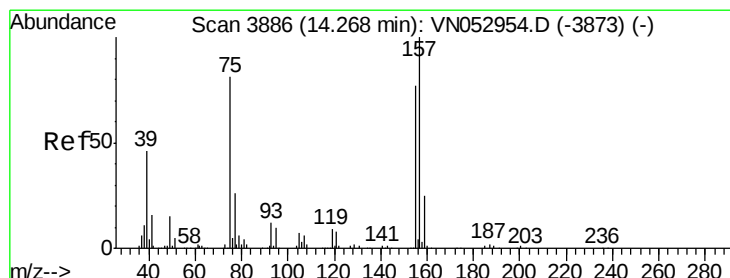
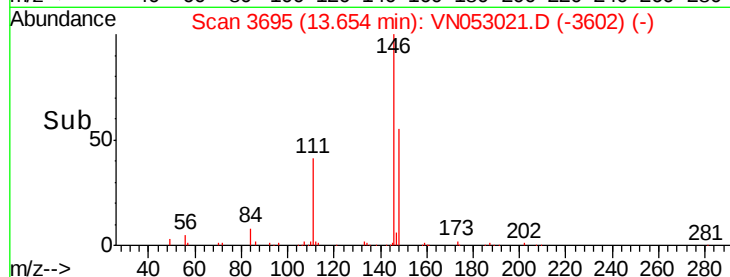
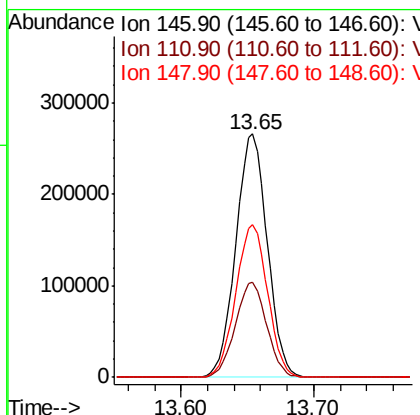
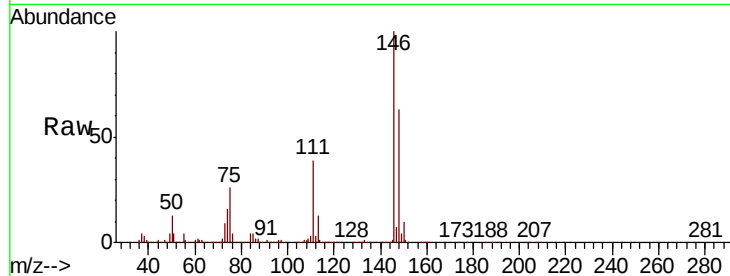
#91
 1,2-Dichlorobenzene
 Concen: 19.517 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.7	59.0
148	63.4	32.0	96.0

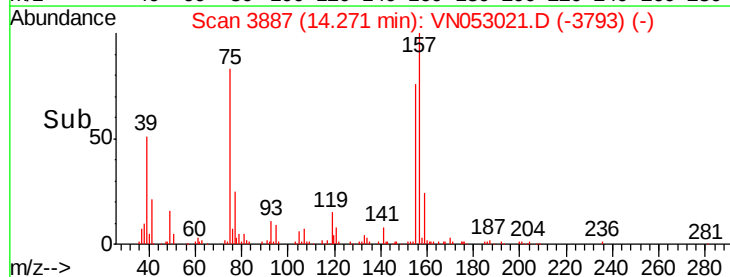
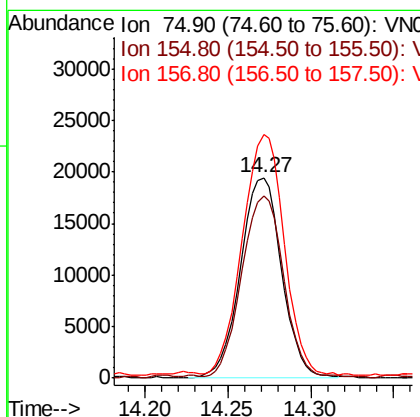
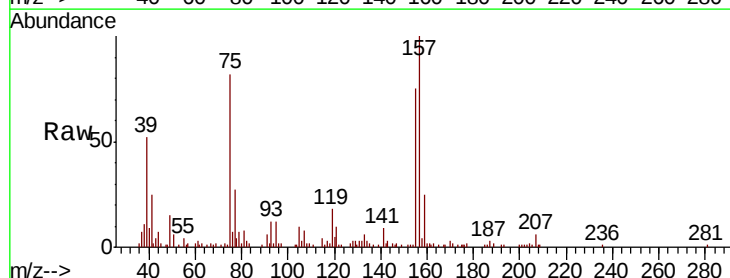
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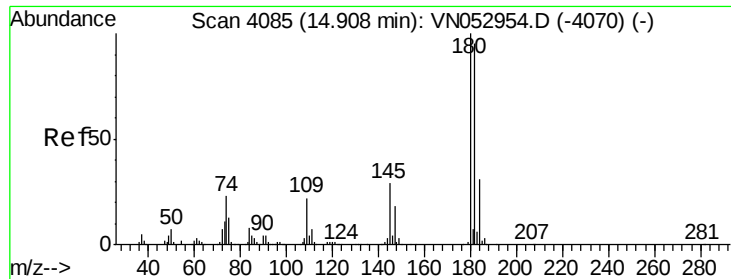
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.149 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.6	48.2	144.6
157	122.0	61.2	183.5





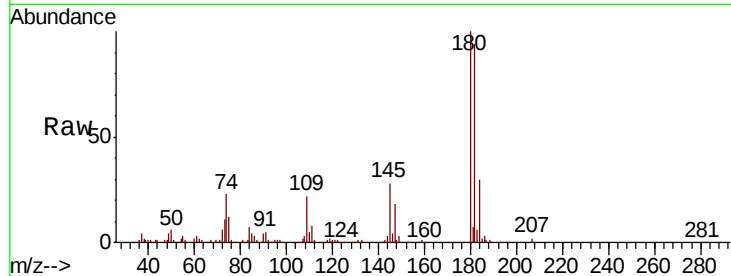
#93
 1,2,4-Trichlorobenzene
 Concen: 19.968 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD01

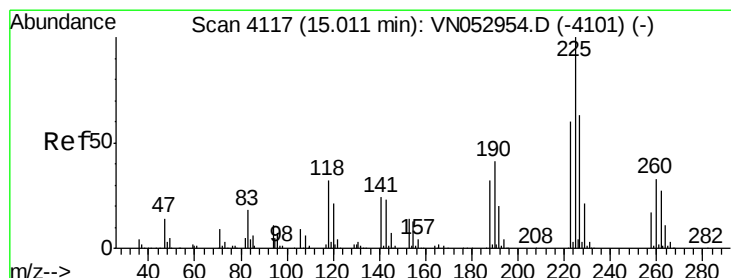
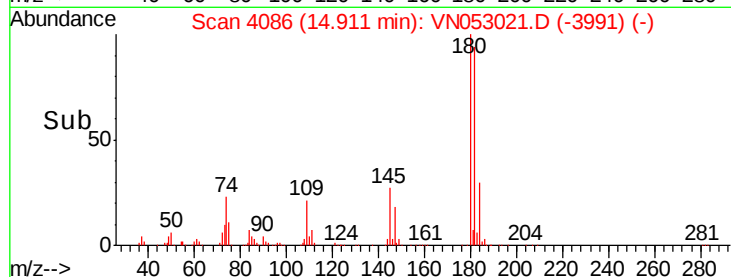
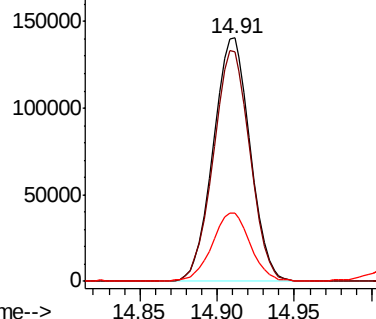
Tot Ion	Ratio	Resp	Lower	Upper
180	100	233157		
182	94.5	47.8	143.3	
145	28.6	14.2	42.6	

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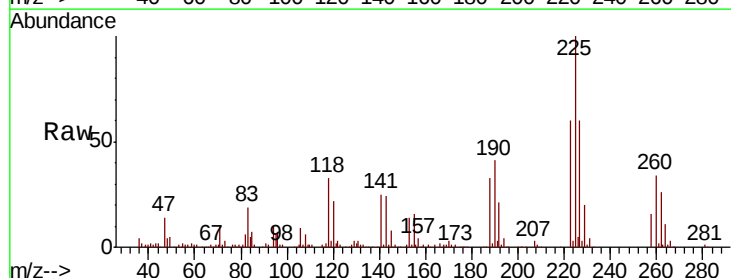


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

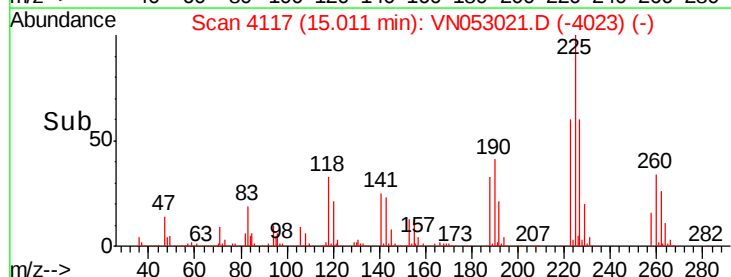
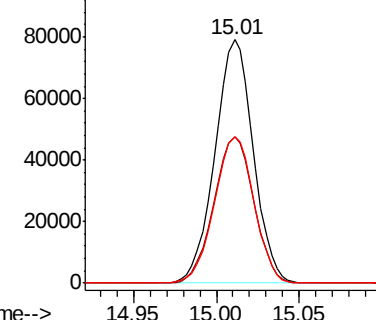


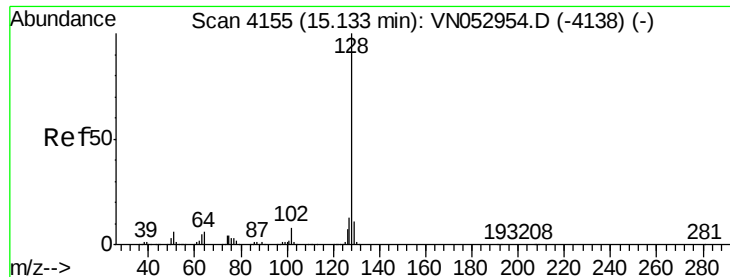
#94
 Hexachlorobutadiene
 Concen: 18.801 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053021.D
 Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	126798		
223	62.8	31.5	94.5	
227	62.1	31.9	95.7	



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





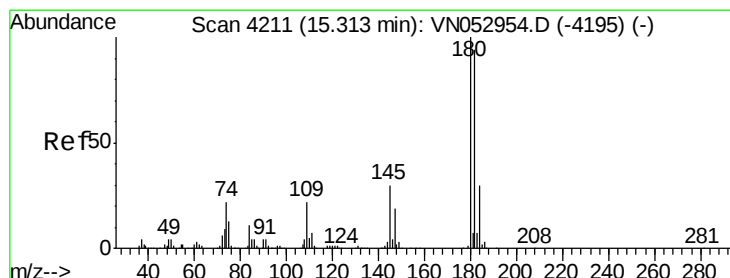
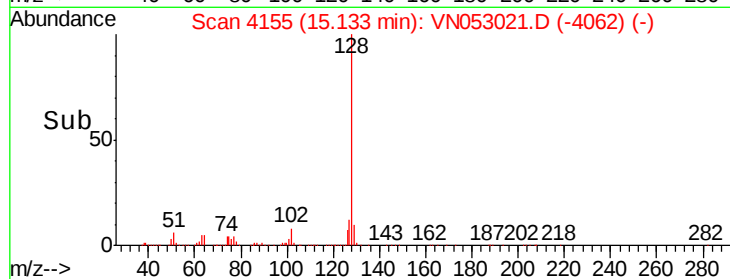
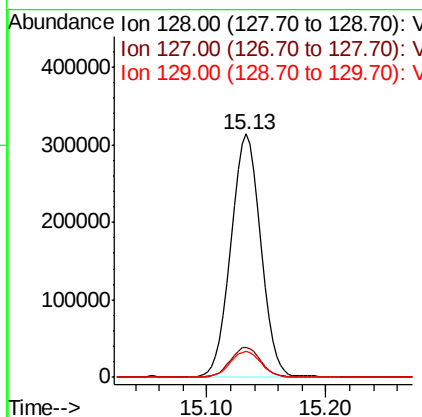
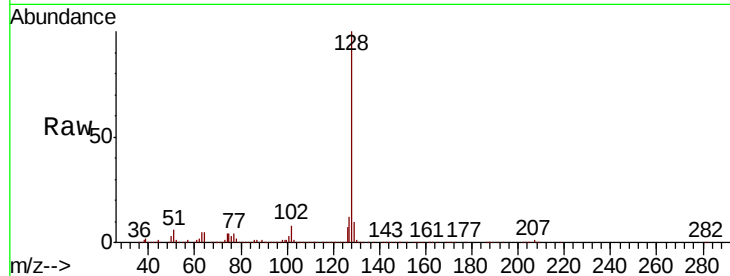
#95
Naphthalene
Concen: 21.612 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	10.8	8.6	13.0

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#96
1,2,3-Trichlorobenzene
Concen: 20.236 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053021.D
Acq: 19 Dec 2018 19:43

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.9	143.7
145	30.1	15.0	45.0

