

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020419\
 Data File : VN053598.D
 Acq On : 4 Feb 2019 15:56
 Operator : JC/SP
 Sample : VN0204MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 9:54:08 AM

Quant Time: Feb 05 03:07:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	717120	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1132549	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	990859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	467256	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	378494	52.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.22%	
35) Dibromofluoromethane	7.59	113	360154	50.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.66%	
50) Toluene-d8	10.09	98	1331296	49.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.10%	
62) 4-Bromofluorobenzene	12.40	95	451129	50.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	160146	20.013	ug/l	97
3) Chloromethane	2.06	50	181995	21.377	ug/l	99
4) Vinyl Chloride	2.19	62	172836	20.913	ug/l	100
5) Bromomethane	2.57	94	114499	21.189	ug/l	97
6) Chloroethane	2.71	64	98924	20.946	ug/l	99
7) Trichlorofluoromethane	3.02	101	225396	20.111	ug/l	99
8) Diethyl Ether	3.41	74	85047	20.779	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	134858	19.457	ug/l	98
10) Methyl Iodide	3.96	142	217869	20.026	ug/l	99
11) Tert butyl alcohol	4.78	59	44277	103.994	ug/l #	88
12) 1,1-Dichloroethene	3.74	96	135081	20.341	ug/l	98
13) Acrolein	3.61	56	41731	180.022	ug/l	97
14) Allyl chloride	4.33	41	210980	19.954	ug/l	98
15) Acrylonitrile	4.99	53	246596	107.286	ug/l	100
16) Acetone	3.82	43	162834	88.242	ug/l	99
17) Carbon Disulfide	4.06	76	369484	17.869	ug/l	100
18) Methyl Acetate	4.33	43	116391	21.298	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	355137	21.096	ug/l	99
20) Methylene Chloride	4.55	84	154741	19.988	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	143510	20.031	ug/l	100
22) Diisopropyl ether	5.95	45	422636	21.572	ug/l	93
23) Vinyl Acetate	5.90	43	1424605	105.112	ug/l	99
24) 1,1-Dichloroethane	5.85	63	266195	20.371	ug/l	99
25) 2-Butanone	6.83	43	262043	99.568	ug/l	99
26) 2,2-Dichloropropane	6.83	77	179713	18.016	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	164352	20.630	ug/l	99
28) Bromochloromethane	7.20	49	118142	20.834	ug/l	99
29) Tetrahydrofuran	7.21	42	182475	107.976	ug/l	99
30) Chloroform	7.37	83	262981	20.302	ug/l	97
31) Cyclohexane	7.65	56	241811	19.773	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	213715	19.825	ug/l	99
36) 1,1-Dichloropropene	7.79	75	197533	19.348	ug/l	98
37) Ethyl Acetate	6.93	43	121057	21.231	ug/l	99
38) Carbon Tetrachloride	7.77	117	185859	18.071	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	222000	18.329	ug/l	98
40) Benzene	8.04	78	616461	19.581	ug/l	100
41) Methacrylonitrile	7.17	41	50253	15.769	ug/l #	69
42) 1,2-Dichloroethane	8.13	62	182257	19.497	ug/l	100
43) Isopropyl Acetate	8.17	43	217843	19.783	ug/l	99
44) Trichloroethene	8.84	130	170382	19.010	ug/l	97
45) 1,2-Dichloropropane	9.12	63	161293	20.030	ug/l	99
46) Dibromomethane	9.21	93	93298	19.220	ug/l	98
47) Bromodichloromethane	9.40	83	189954	18.821	ug/l	99
48) Methyl methacrylate	9.20	41	107203	20.395	ug/l	98
49) 1,4-Dioxane	9.20	88	30317	421.586	ug/l #	94
51) 4-Methyl-2-Pentanone	9.99	43	548559	101.376	ug/l	100
52) Toluene	10.16	92	370388	19.823	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	184208	18.227	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	223824	18.690	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	134233	19.937	ug/l	99
56) Ethyl methacrylate	10.43	69	158269	19.871	ug/l	99
57) 1,3-Dichloropropane	10.71	76	229768	19.968	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	429693	92.210	ug/l	99
59) 2-Hexanone	10.75	43	345751	94.122	ug/l	99
60) Dibromochloromethane	10.90	129	140804	18.545	ug/l	100
61) 1,2-Dibromoethane	11.01	107	125319	18.805	ug/l	98
64) Tetrachloroethene	10.63	164	157181	18.505	ug/l	99
65) Chlorobenzene	11.44	112	400539	19.031	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	141512	19.252	ug/l	98
67) Ethyl Benzene	11.51	91	673635	19.484	ug/l	100
68) m/p-Xylenes	11.62	106	524744	39.767	ug/l	99
69) o-Xylene	11.95	106	256763	20.141	ug/l	97
70) Styrene	11.96	104	411919	19.936	ug/l	100
71) Bromoform	12.13	173	93394	18.533	ug/l #	99
73) Isopropylbenzene	12.25	105	659782	20.086	ug/l	100
74) N-amyl acetate	12.07	43	157509	19.941	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	157736	20.065	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	129088m	21.509	ug/l	
77) Bromobenzene	12.53	156	179755	20.305	ug/l	96
78) n-propylbenzene	12.59	91	755521	19.897	ug/l	99
79) 2-Chlorotoluene	12.68	91	452408	20.082	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	562389	20.647	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	36040	16.886	ug/l	95
82) 4-Chlorotoluene	12.77	91	455075	19.686	ug/l	100
83) tert-Butylbenzene	12.99	119	496372	20.619	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	570859	20.571	ug/l	100
85) sec-Butylbenzene	13.17	105	660568	20.164	ug/l	100
86) p-Isopropyltoluene	13.29	119	571535	19.948	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	304276	19.120	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	302703	19.229	ug/l	100
89) n-Butylbenzene	13.62	91	479165	19.321	ug/l	100
90) Hexachloroethane	13.87	117	89714	18.983	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	295659	19.406	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22062	19.692	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	169474	19.395	ug/l	98
94) Hexachlorobutadiene	15.01	225	96111	17.662	ug/l	99
95) Naphthalene	15.13	128	385390	19.860	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	159716	19.700	ug/l	98

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

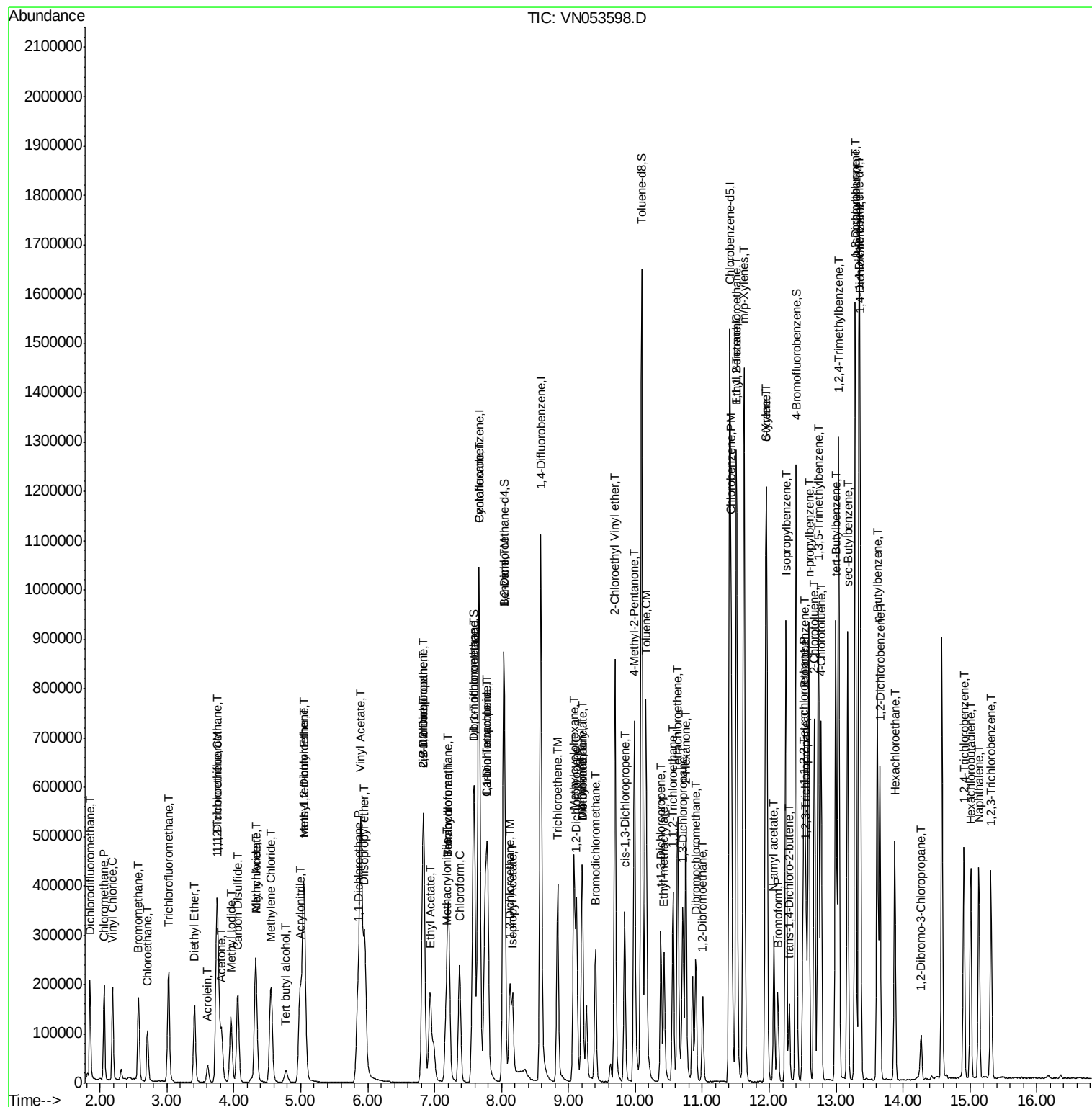
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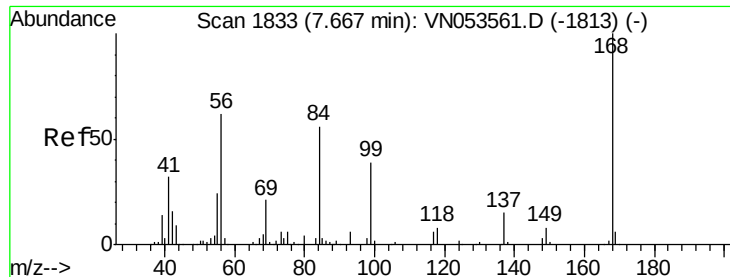
Instrument :
 MSVOA_N
 Client Sample ID :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBSD01

Tot Ion:168 Resp: 717120

Ion Ratio Lower Upper

168 100

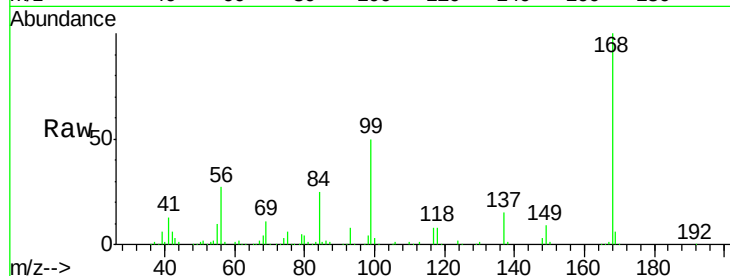
99 49.1 39.1 58.7

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

300000

250000

200000

150000

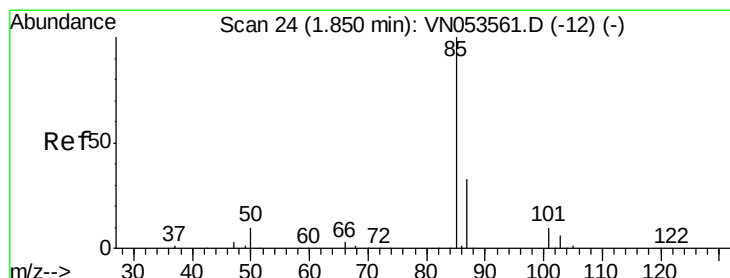
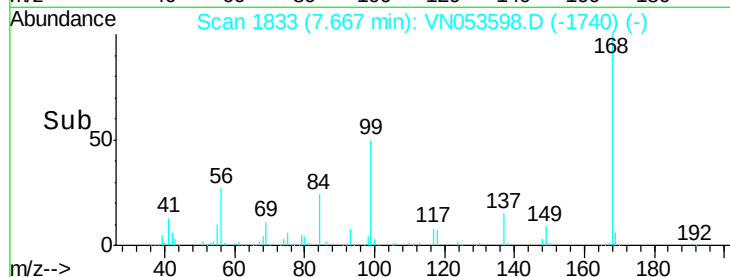
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 20.013 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053598.D

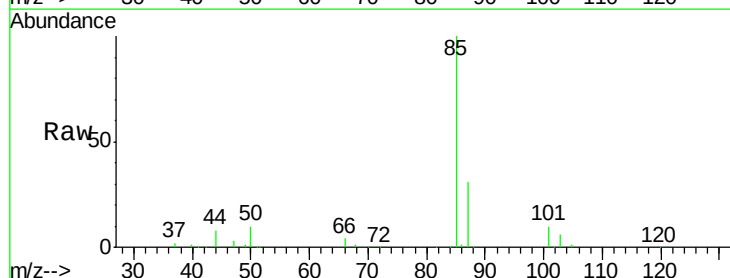
Acq: 4 Feb 2019 15:56

Tgt Ion: 85 Resp: 160146

Ion Ratio Lower Upper

85 100

87 30.6 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

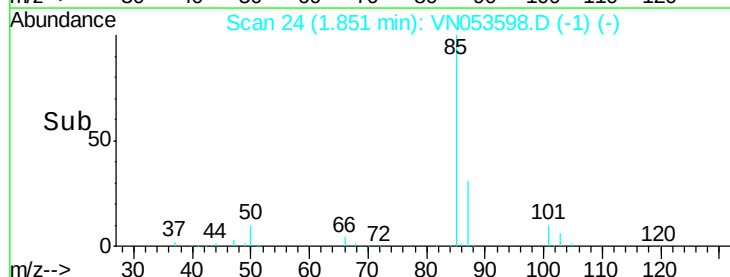
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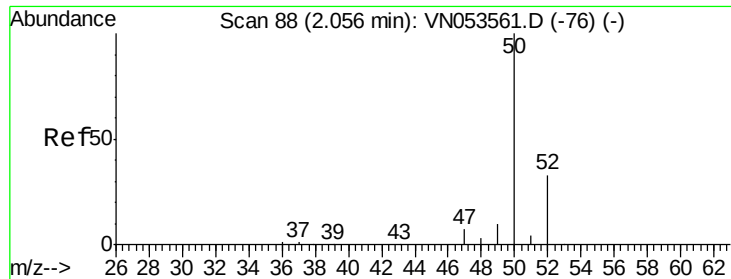
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 21.377 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBSD01

Tot Ion: 50 Resp: 181995

Ion Ratio Lower Upper

50 100

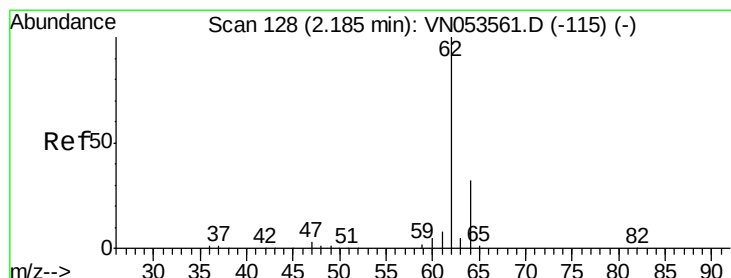
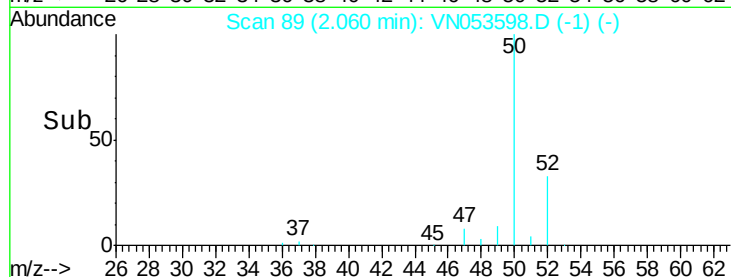
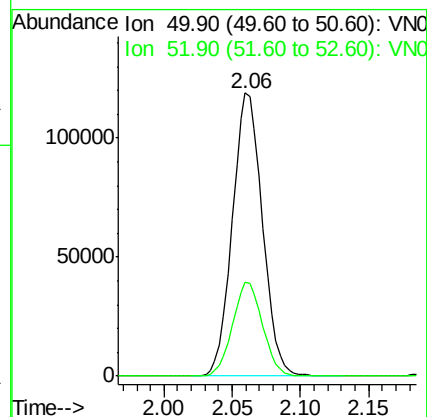
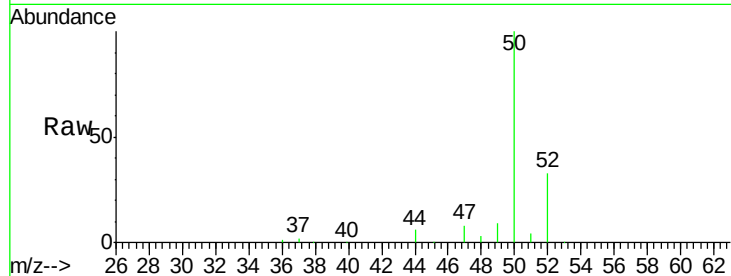
52 33.0 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.913 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053598.D

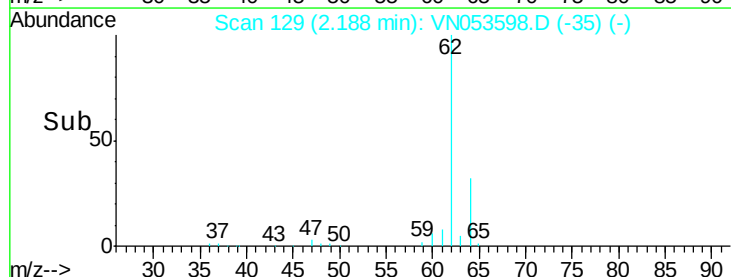
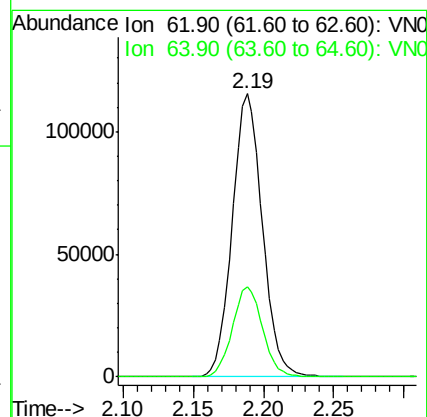
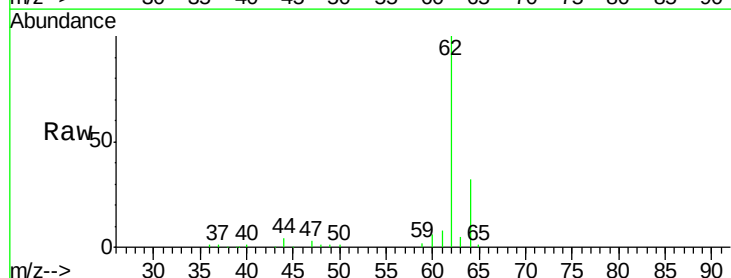
Acq: 4 Feb 2019 15:56

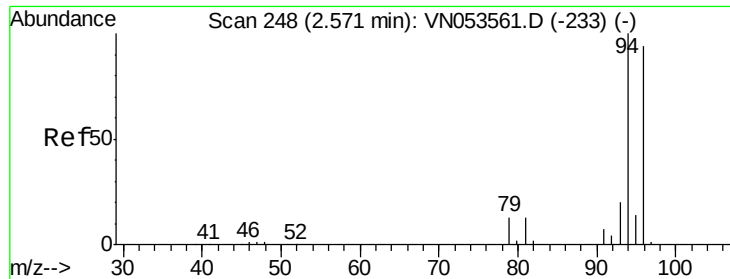
Tgt Ion: 62 Resp: 172836

Ion Ratio Lower Upper

62 100

64 32.0 25.4 38.2





#5

Bromomethane

Concen: 21.189 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 114499

Ion Ratio Lower Upper

94 100

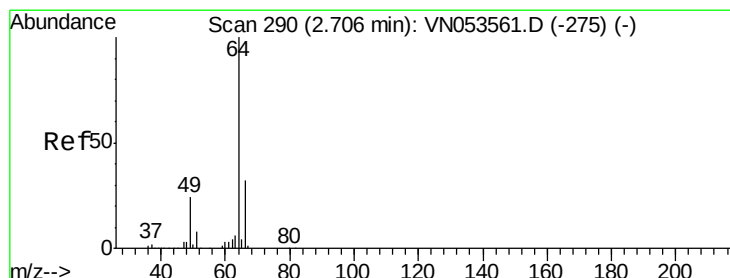
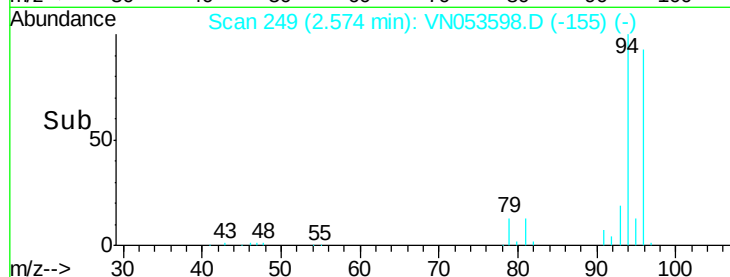
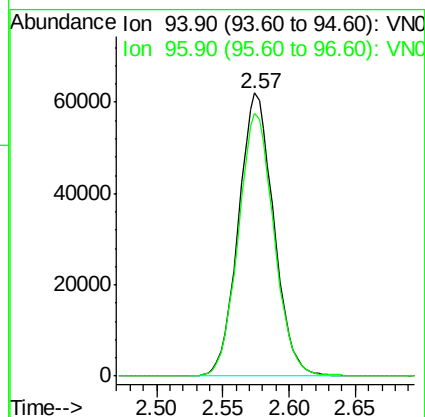
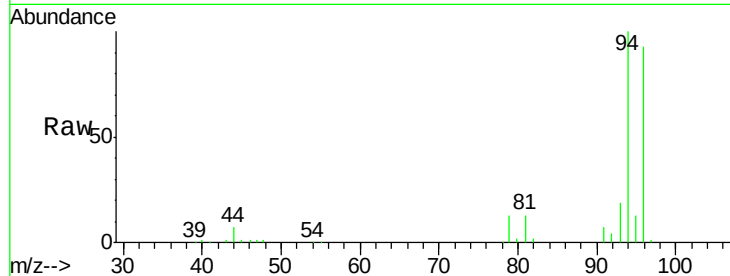
96 92.7 76.8 115.2

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#6

Chloroethane

Concen: 20.946 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053598.D

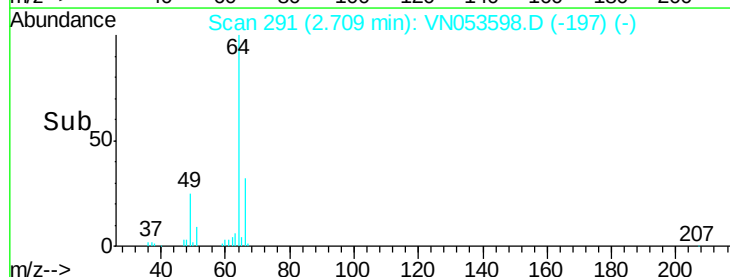
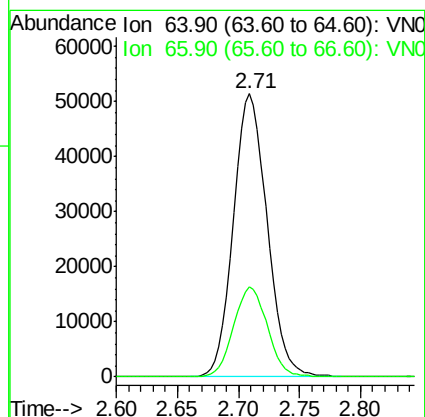
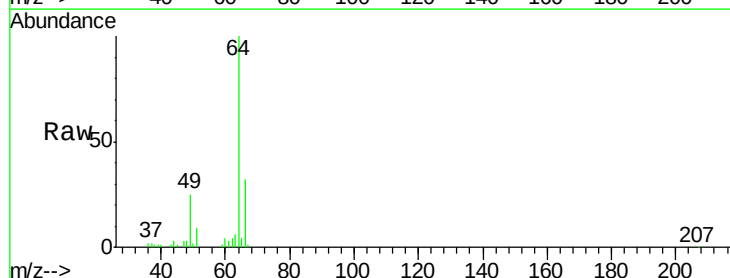
Acq: 4 Feb 2019 15:56

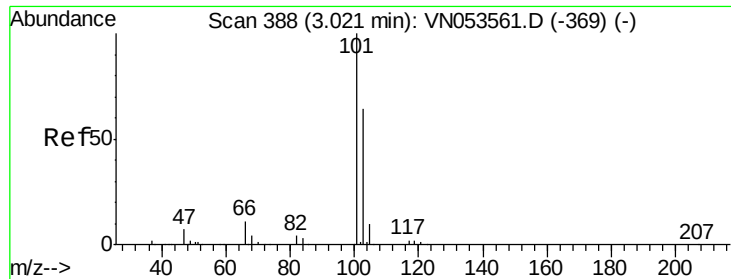
Tgt Ion: 64 Resp: 98924

Ion Ratio Lower Upper

64 100

66 31.7 25.1 37.7





#7

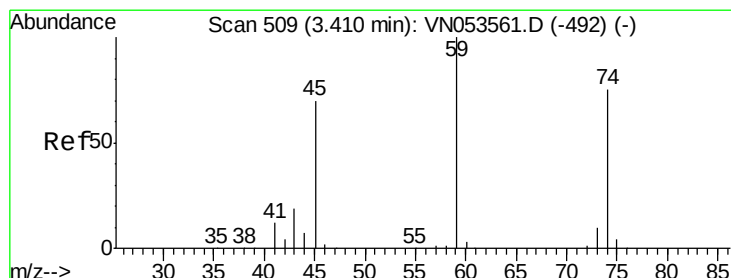
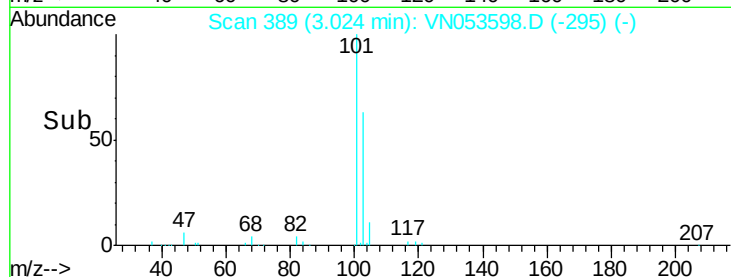
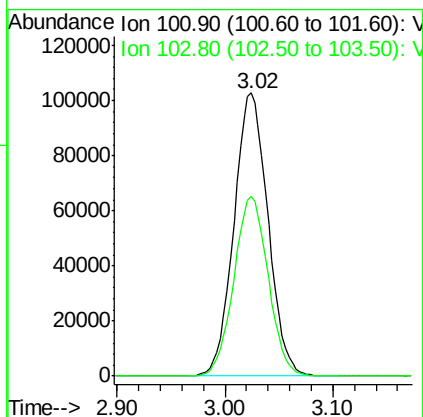
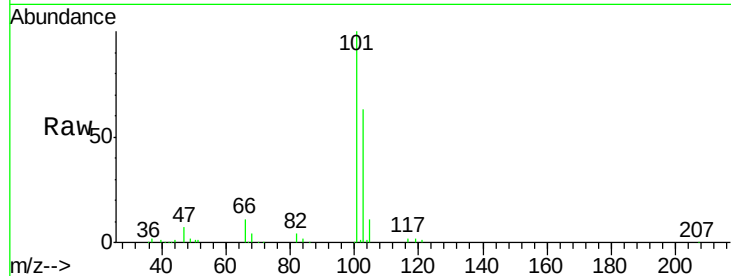
Trichlorofluoromethane
Concen: 20.111 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.4	51.6	77.4

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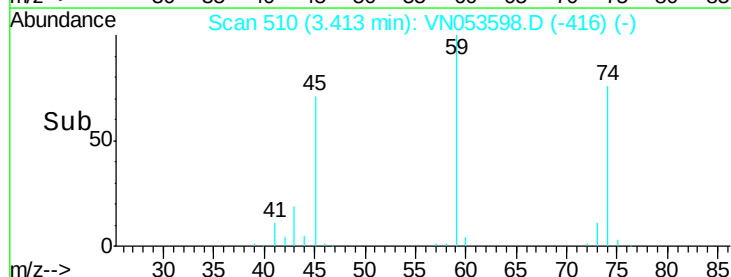
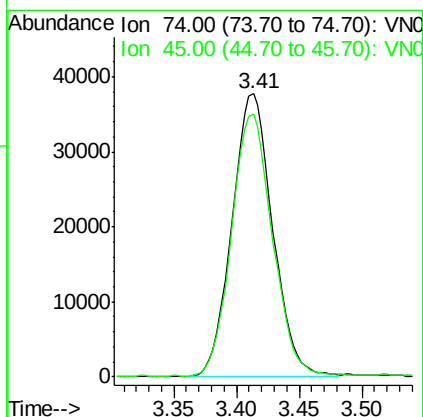
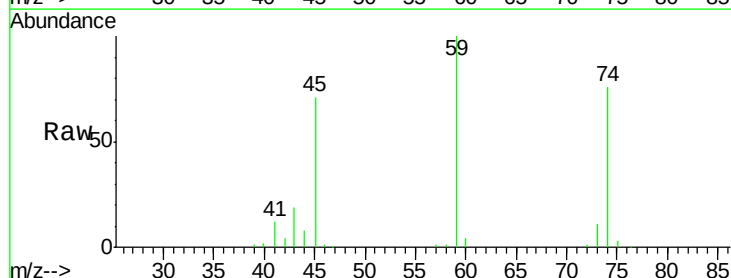
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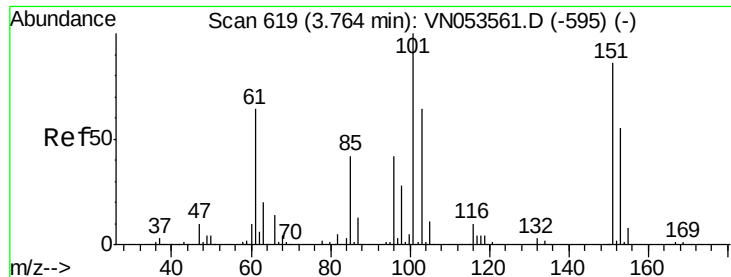


#8

Diethyl Ether
Concen: 20.779 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.4	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.457 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

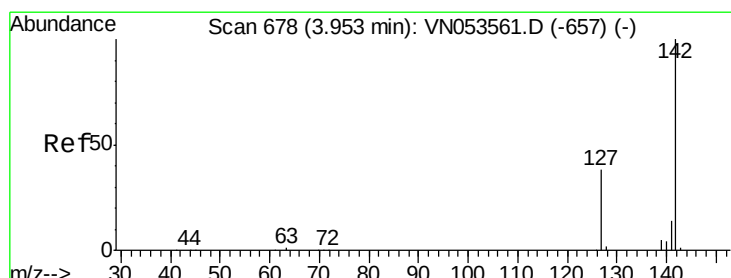
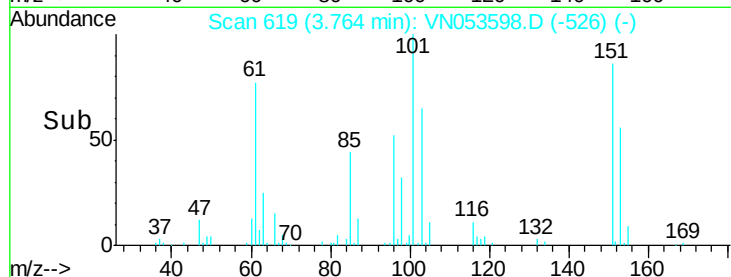
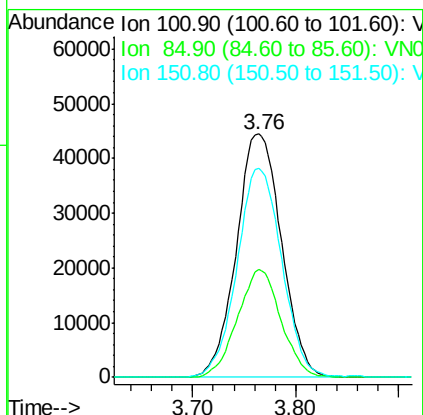
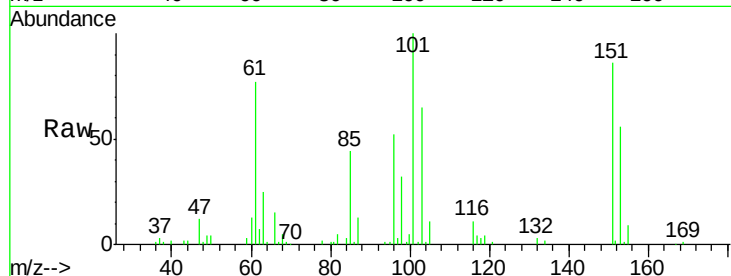
ClientSampleId :

VN0204MBSD01

Tot Ion:	101	Resp:	134858
Ion Ratio	Lower	Upper	
101	100		
85	42.7	32.8	49.2
151	85.4	66.9	100.3

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#10

Methyl Iodide

Concen: 20.026 ug/l

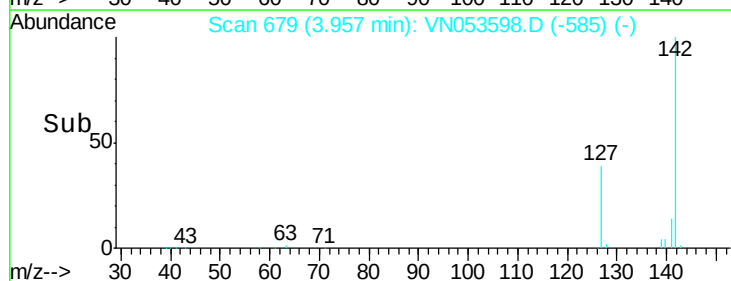
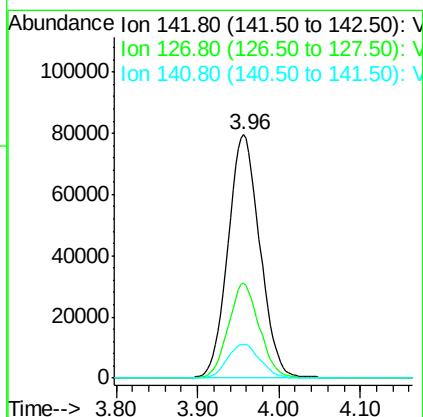
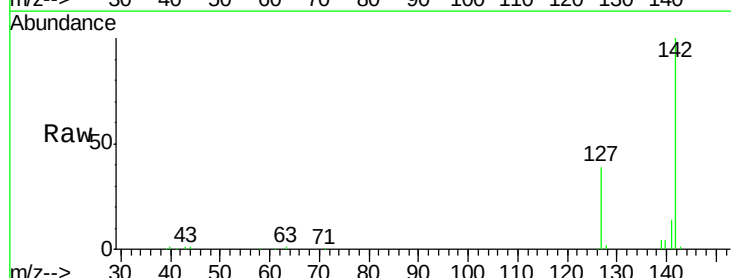
RT: 3.96 min Scan# 679

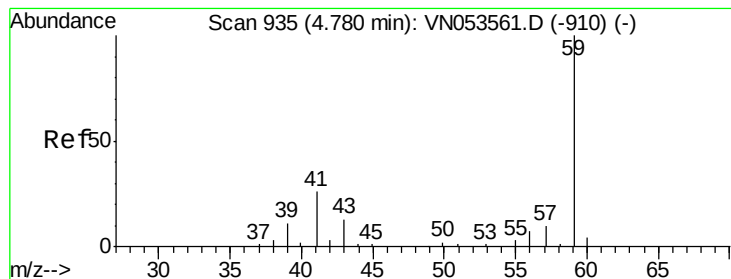
Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Tgt Ion:	142	Resp:	217869
Ion Ratio	Lower	Upper	
142	100		
127	37.8	31.0	46.4
141	14.2	11.1	16.7





#11

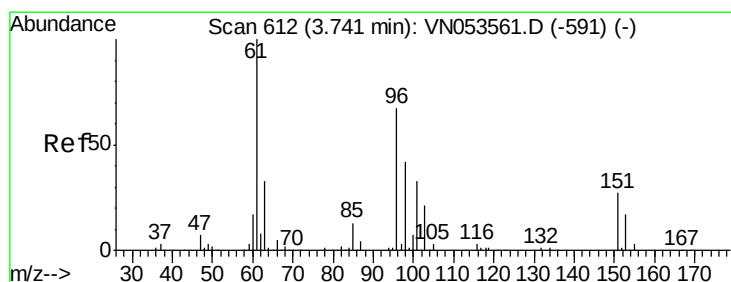
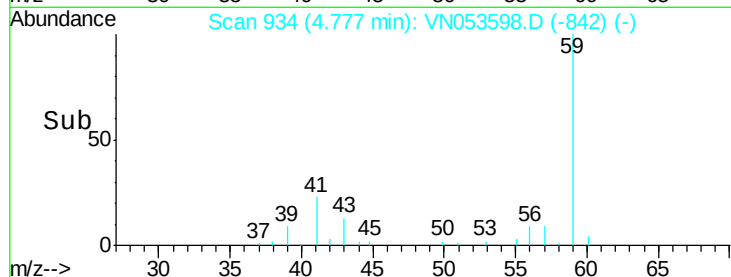
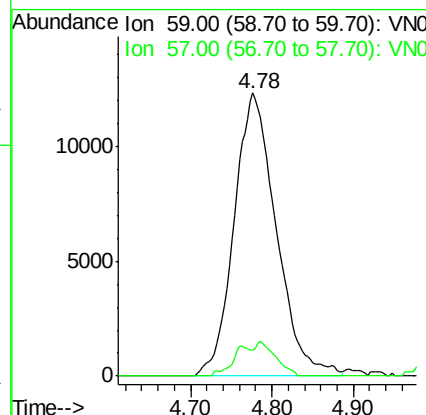
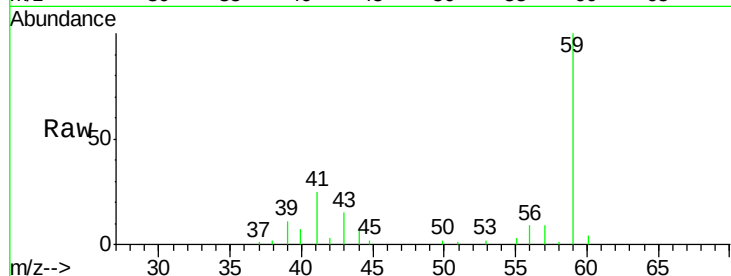
Tert butyl alcohol
 Concen: 103.994 ug/l
 RT: 4.78 min Scan# 934
 Delta R.T. -0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampled :
 VN0204MBSD01

Tot Ion: 59 Resp: 44277
 Ion Ratio Lower Upper
 59 100
 57 5.8 8.2 12.4#

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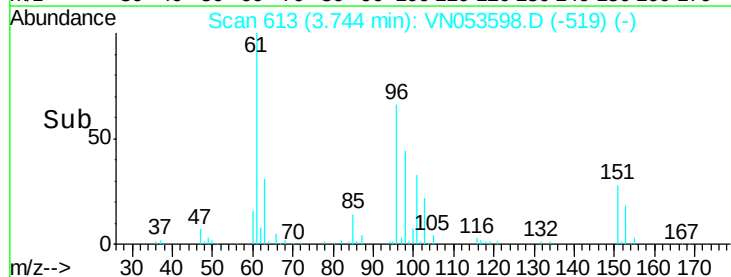
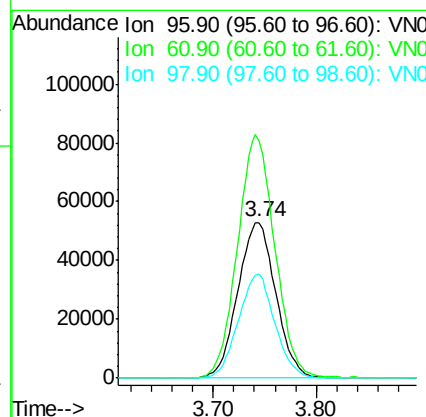
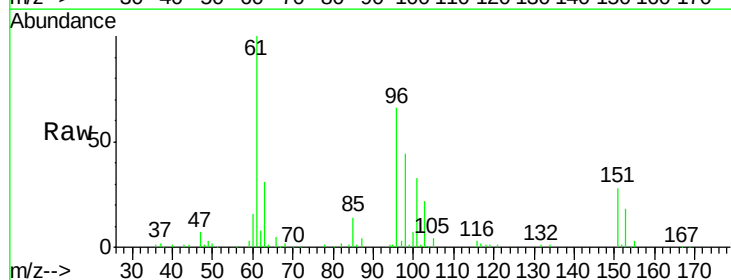
MMDadoda
 2/5/2019 9:54:08 AM

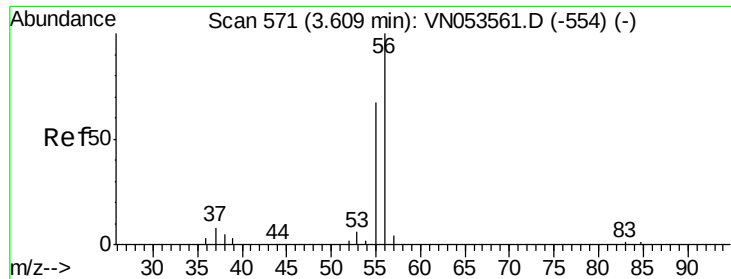


#12

1,1-Dichloroethene
 Concen: 20.341 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion: 96 Resp: 135081
 Ion Ratio Lower Upper
 96 100
 61 152.6 122.9 184.3
 98 66.8 49.4 74.0





#13

Acrolein

Concen: 180.022 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBSD01

Tot Ion: 56 Resp: 41731

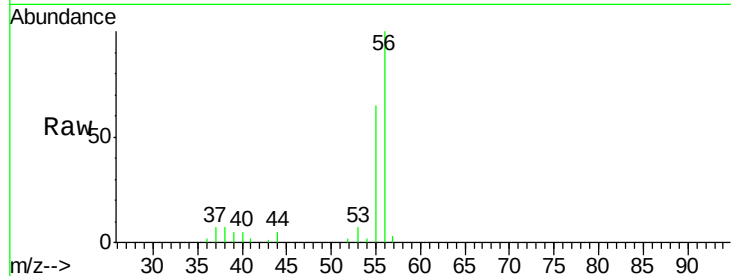
Ion Ratio Lower Upper

56 100

55 69.0 57.4 86.0

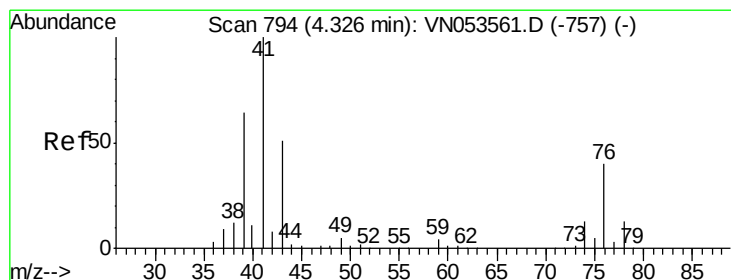
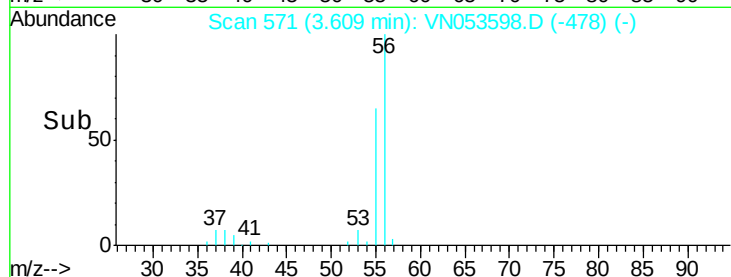
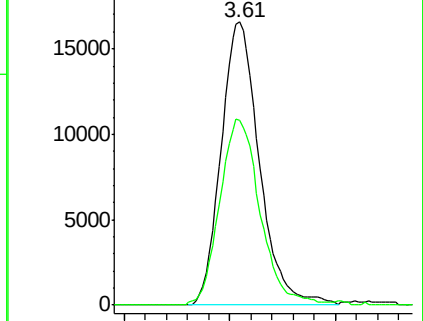
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 19.954 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

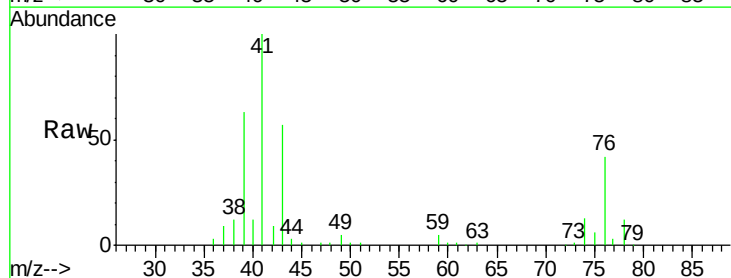
Tgt Ion: 41 Resp: 210980

Ion Ratio Lower Upper

41 100

39 62.2 48.9 73.3

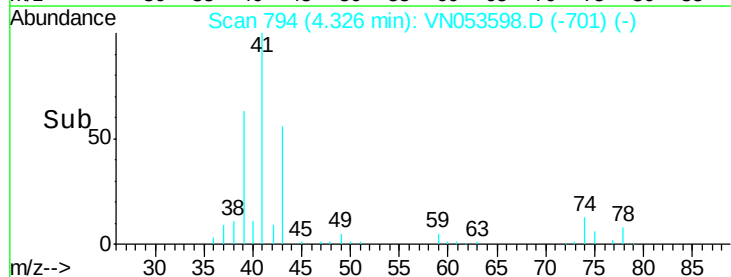
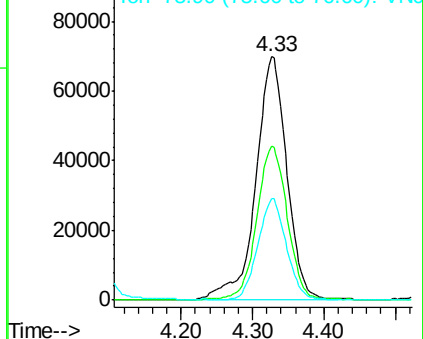
76 38.4 29.4 44.2

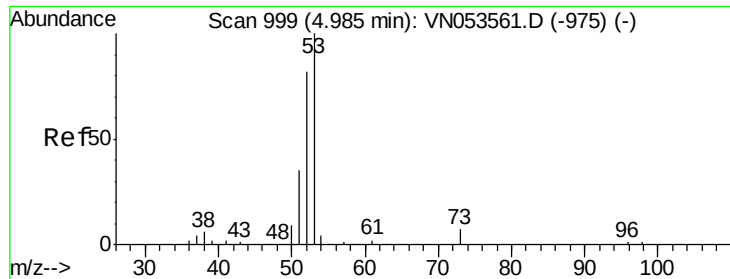


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 107.286 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

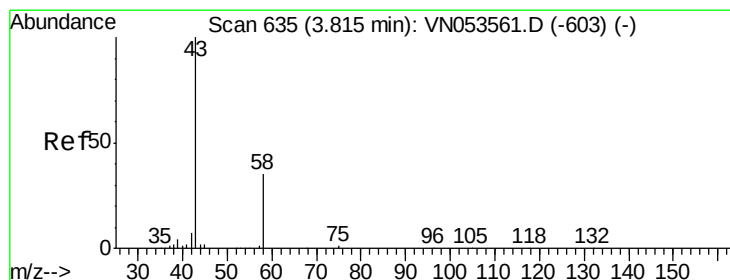
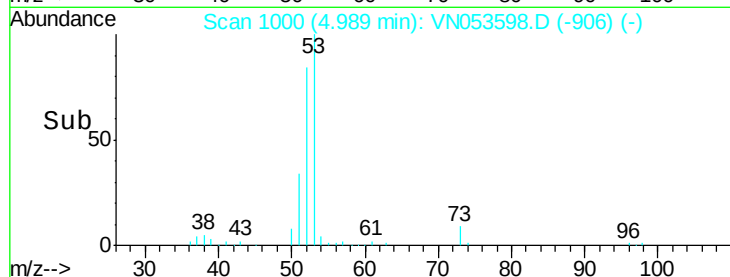
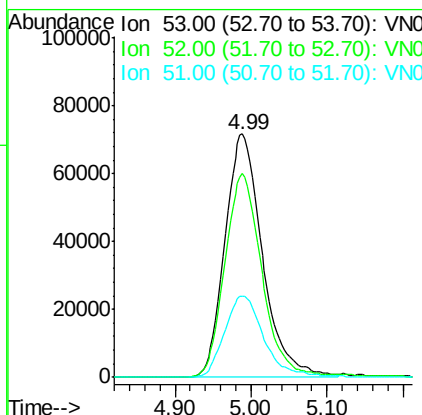
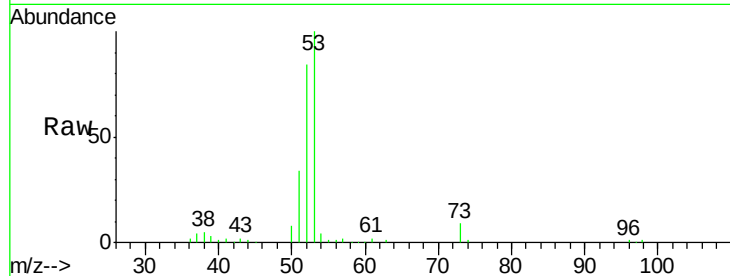
ClientSampleId :

VN0204MBSD01

Tot Ion:	53	Resp:	246596
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.0	99.0
51	34.9	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 88.242 ug/l

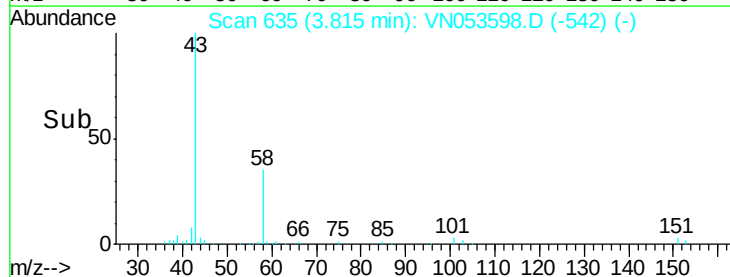
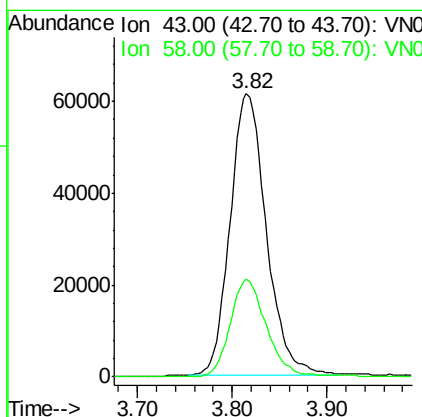
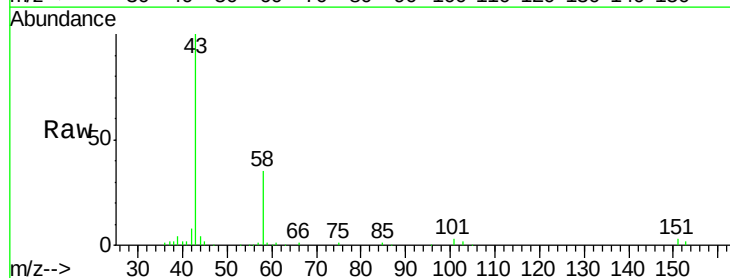
RT: 3.82 min Scan# 635

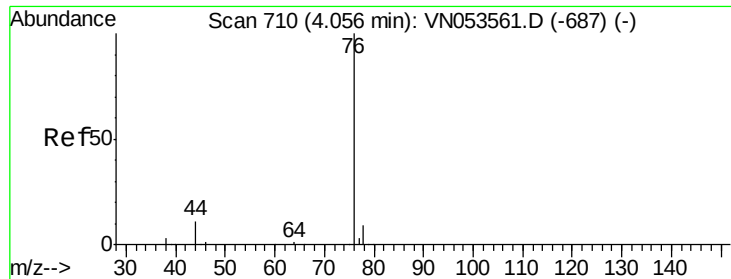
Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Tgt Ion:	43	Resp:	162834
Ion	Ratio	Lower	Upper
43	100		
58	34.7	27.1	40.7





#17

Carbon Disulfide

Concen: 17.869 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBSD01

Tot Ion: 76 Resp: 369484

Ion Ratio Lower Upper

76 100

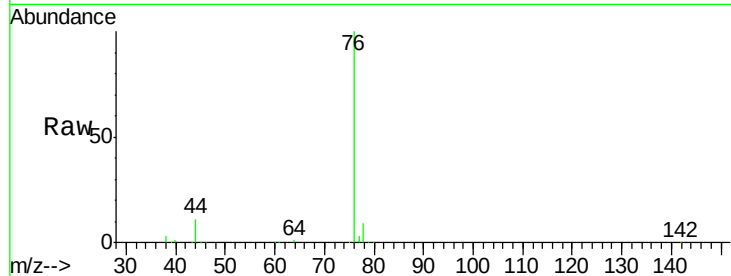
78 8.9 7.3 10.9

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN053561.D (-687) (-)

Ion 77.90 (77.60 to 78.60): VN053598.D (-617) (-)

4.06

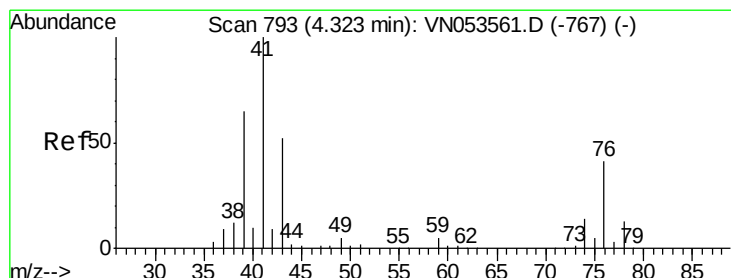
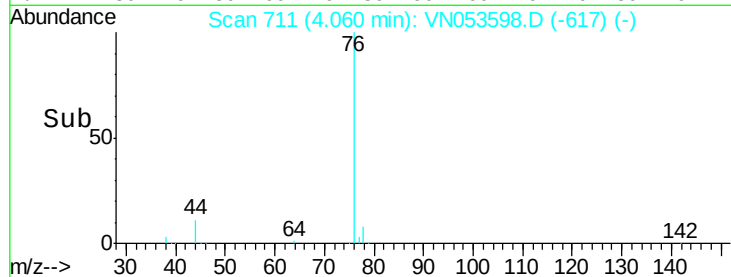
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 21.298 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053598.D

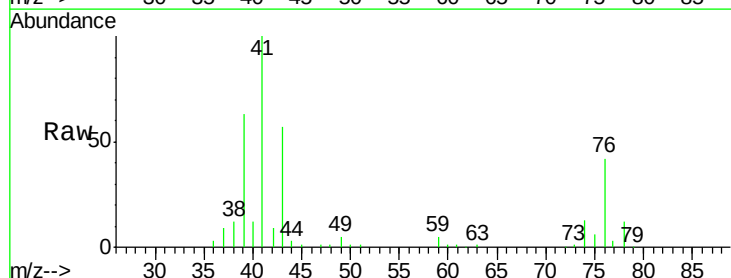
Acq: 4 Feb 2019 15:56

Tgt Ion: 43 Resp: 116391

Ion Ratio Lower Upper

43 100

74 24.0 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-767) (-)

Ion 74.00 (73.70 to 74.70): VN053598.D (-700) (-)

4.33

40000

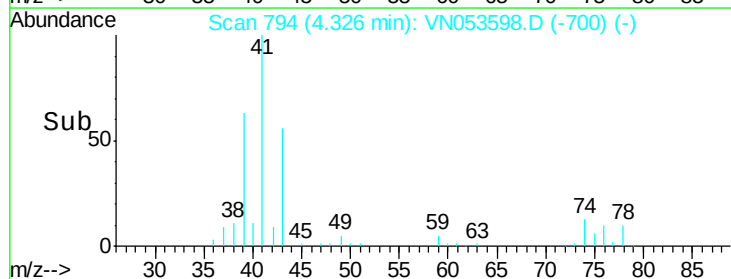
30000

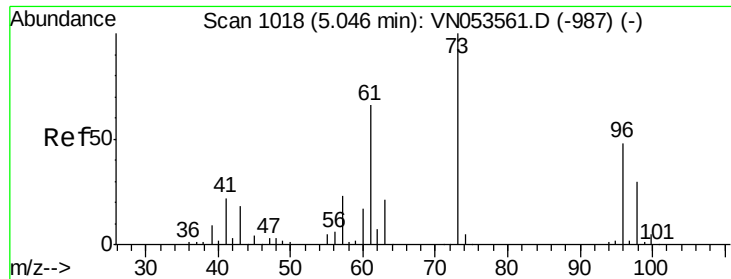
20000

10000

0

Time-->





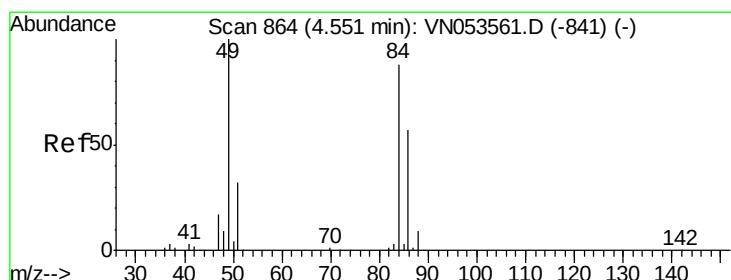
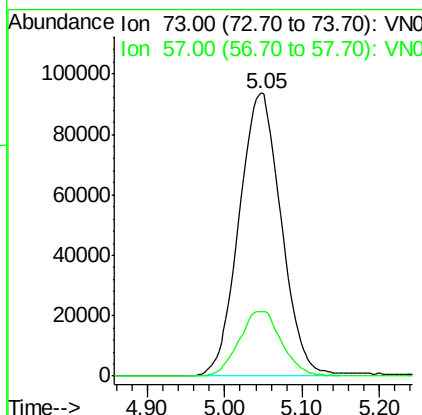
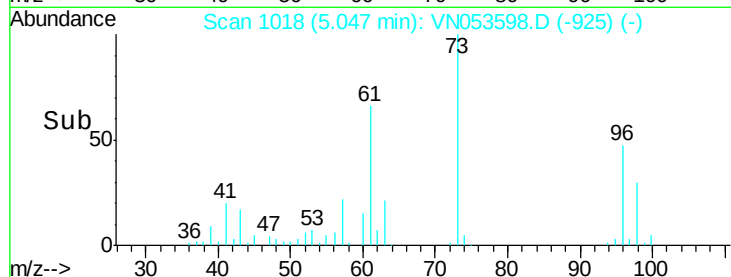
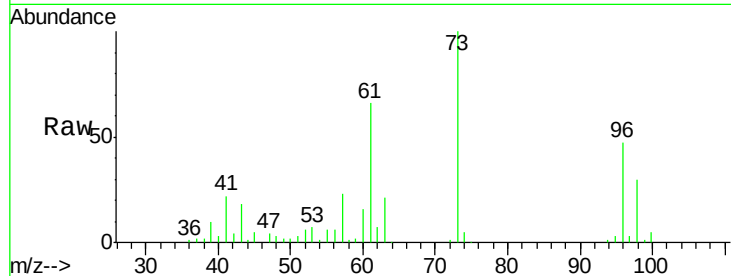
#19
Methyl tert-butyl Ether
Concen: 21.096 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion: 73 Resp: 355137
Ion Ratio Lower Upper
73 100
57 22.6 18.3 27.5

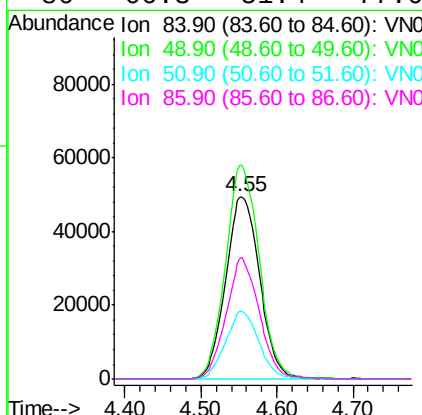
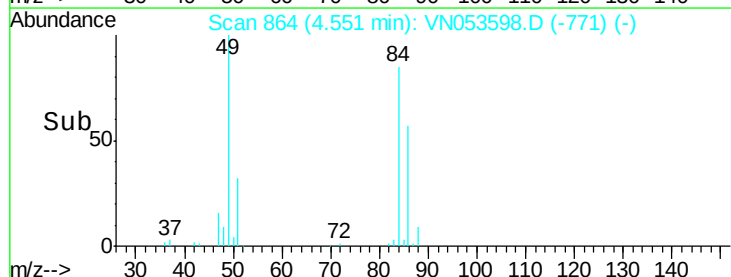
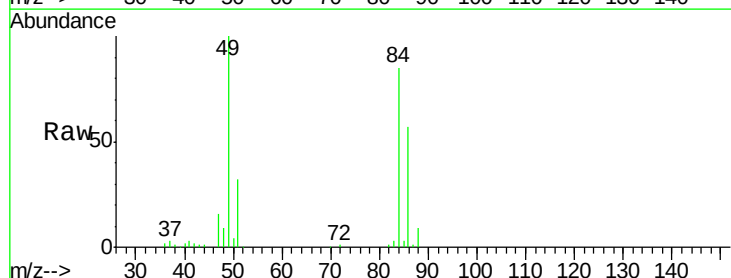
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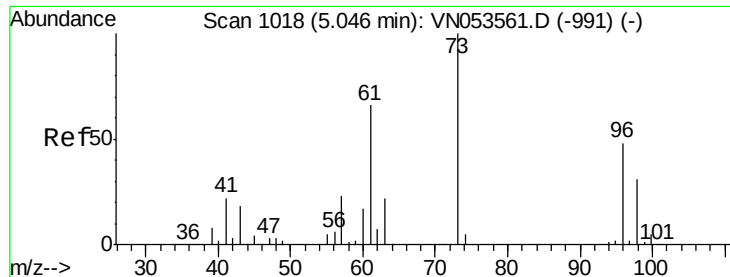
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#20
Methylene Chloride
Concen: 19.988 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion: 84 Resp: 154741
Ion Ratio Lower Upper
84 100
49 117.1 94.3 141.5
51 36.9 29.4 44.2
86 66.3 51.4 77.0





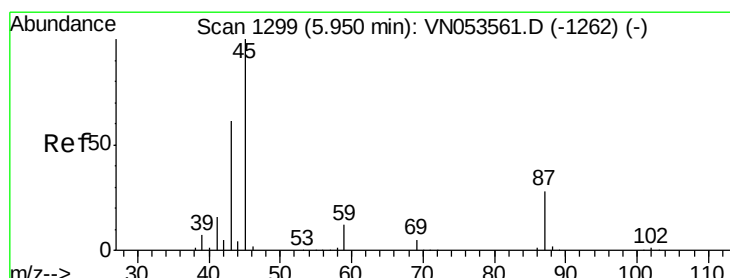
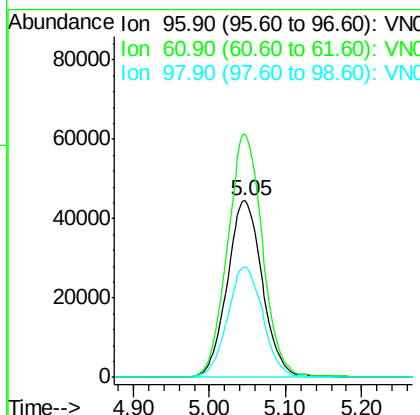
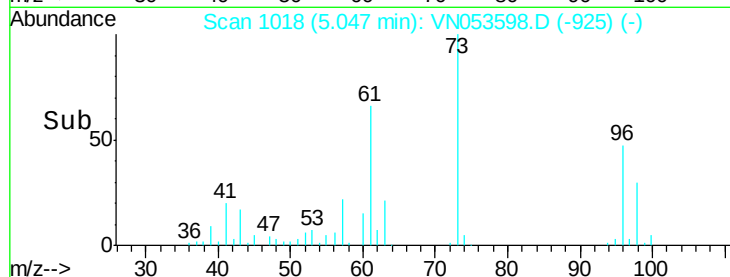
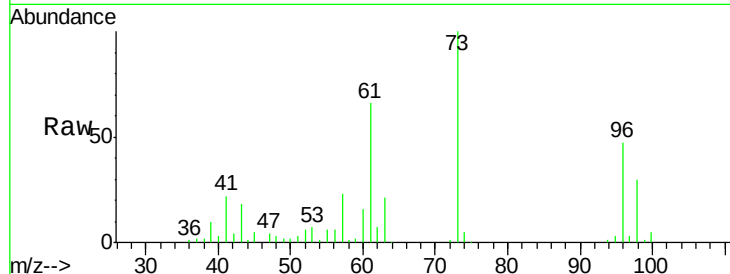
#21
trans-1,2-Dichloroethene
Concen: 20.031 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.0	110.1	165.1
98	62.3	50.0	75.0

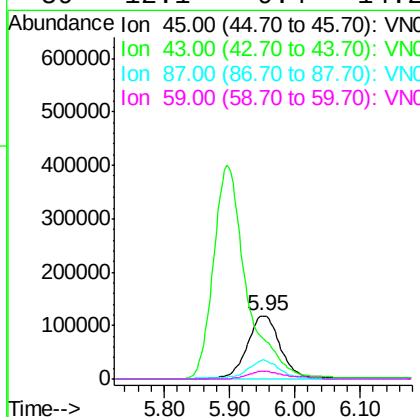
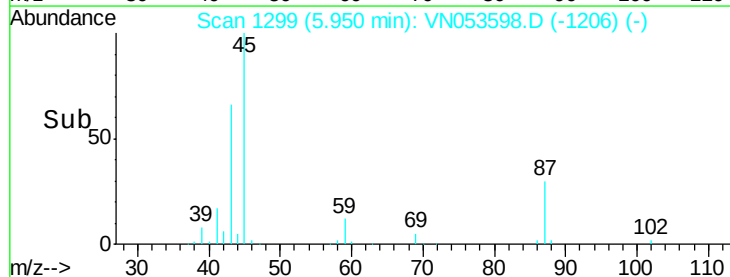
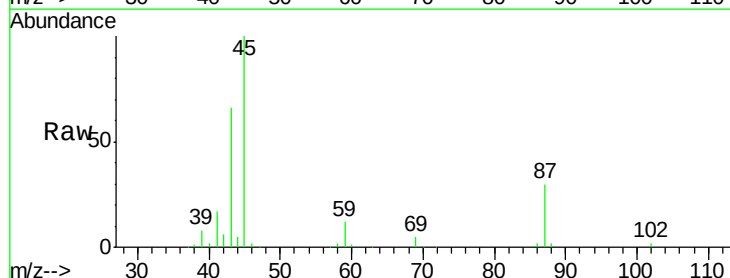
Manual Integrations
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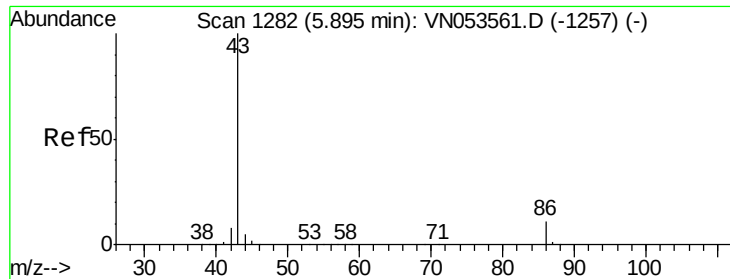
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2/5/2019 9:54:08 AM



#22
Diisopropyl ether
Concen: 21.572 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.8	44.2	66.4
87	28.8	22.7	34.1
59	12.1	9.4	14.2





#23

Vinyl Acetate

Concen: 105.112 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBSD01

Tot Ion: 43 Resp: 1424605

Ion Ratio Lower Upper

43 100

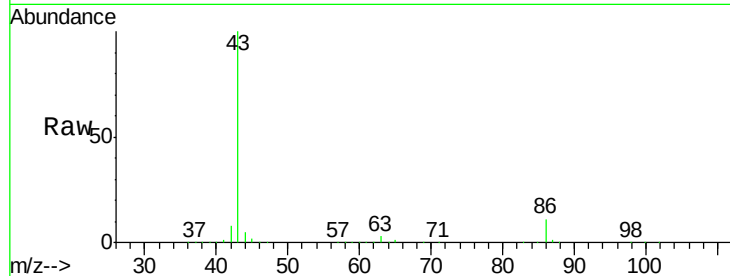
86 10.9 8.4 12.6

Manual Integrations

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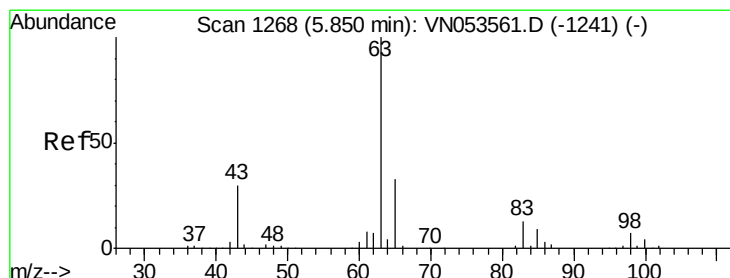
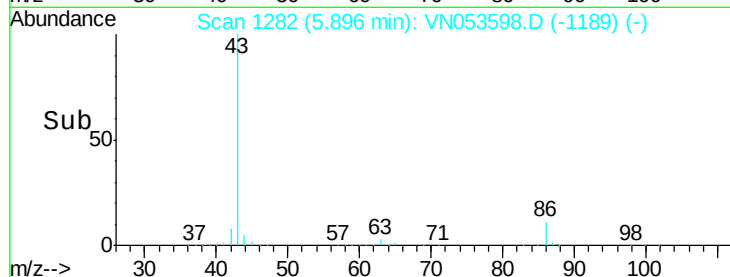
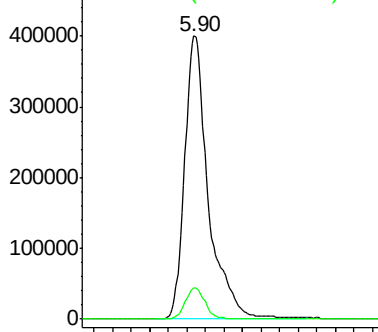
MMDadoda

2/5/2019 9:54:08 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: 20.371 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

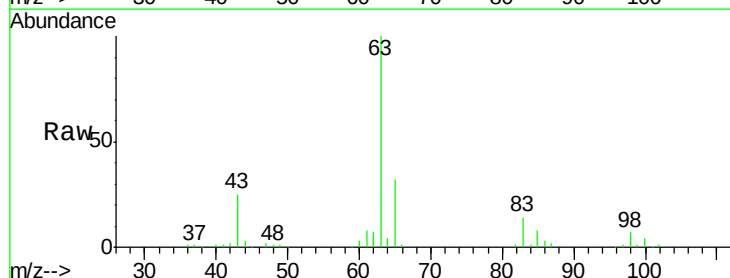
Tgt Ion: 63 Resp: 266195

Ion Ratio Lower Upper

63 100

98 6.8 3.3 9.9

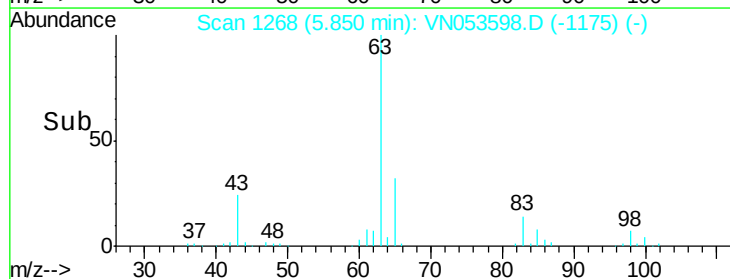
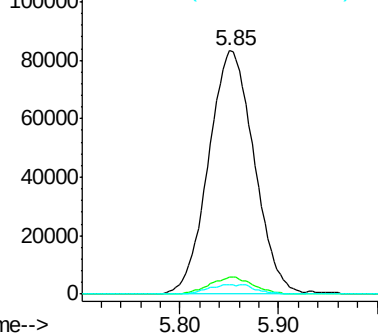
100 4.0 2.1 6.5

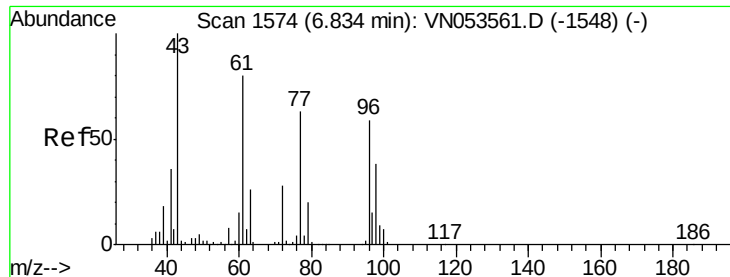


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 99.568 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBSD01

Tot Ion: 43 Resp: 262043

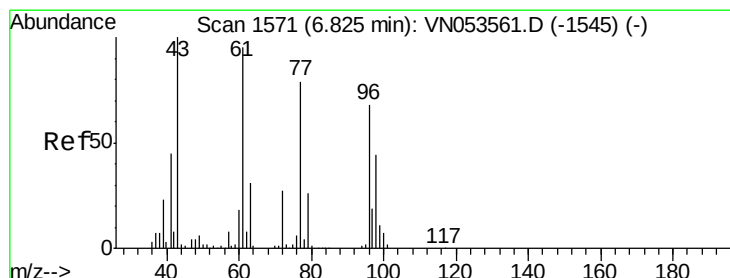
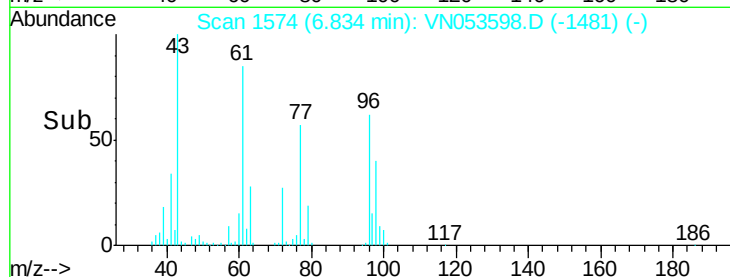
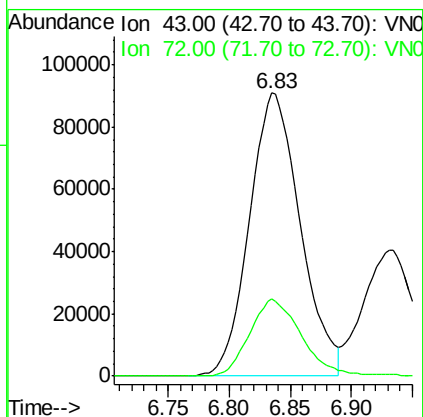
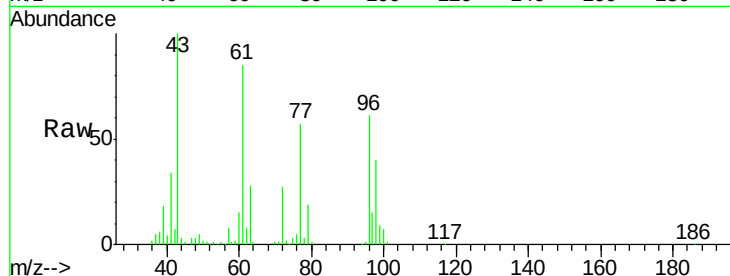
Ion Ratio Lower Upper

43 100

72 27.2 22.0 33.0

Manual Integrations
APPROVED

MMDadoda
2/5/2019 9:54:08 AM



#26

2,2-Dichloropropane

Concen: 18.016 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053598.D

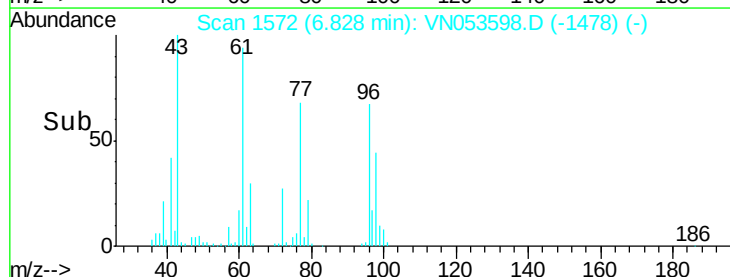
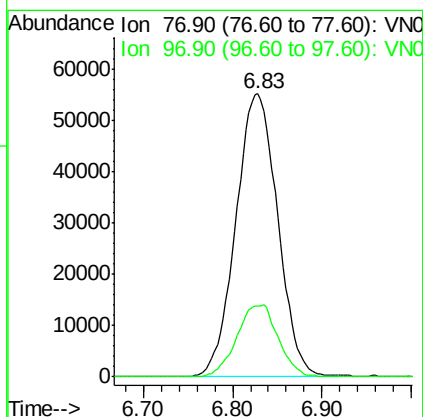
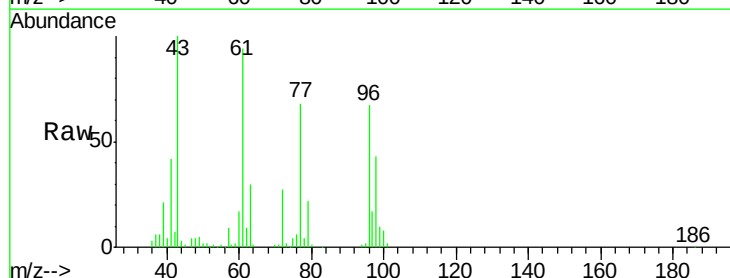
Acq: 4 Feb 2019 15:56

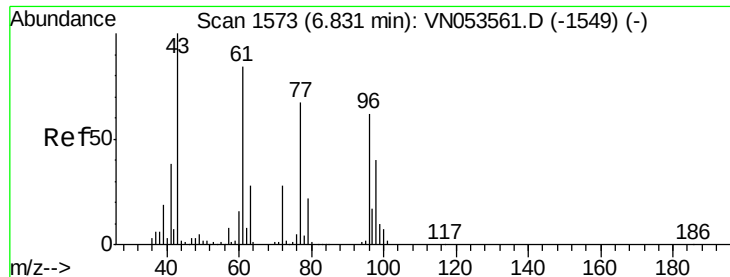
Tgt Ion: 77 Resp: 179713

Ion Ratio Lower Upper

77 100

97 25.2 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 20.630 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

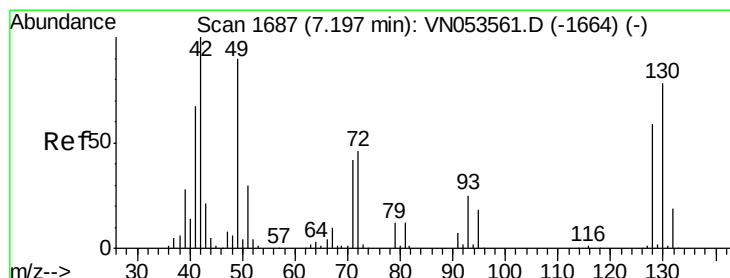
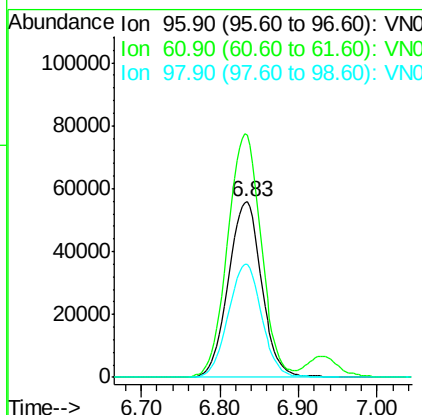
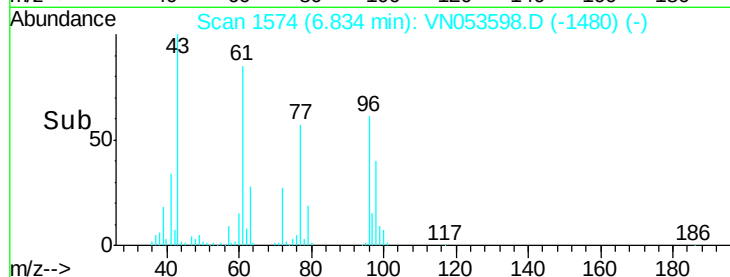
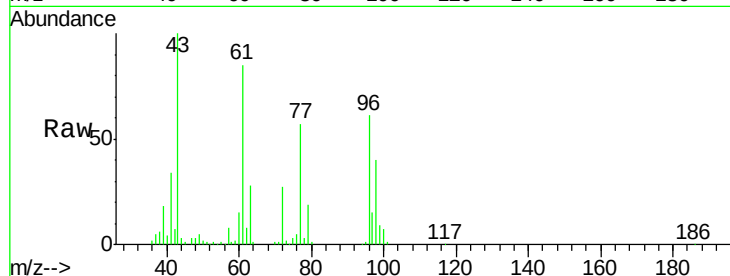
ClientSampleId :

VN0204MBSD01

Tot Ion:	96	Resp:	164352
Ion	Ratio	Lower	Upper
96	100		
61	139.8	0.0	283.8
98	64.5	0.0	129.2

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#28

Bromochloromethane

Concen: 20.834 ug/l

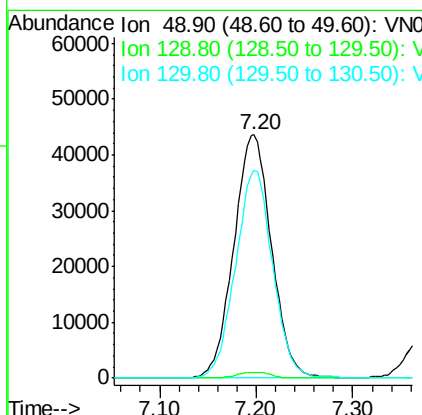
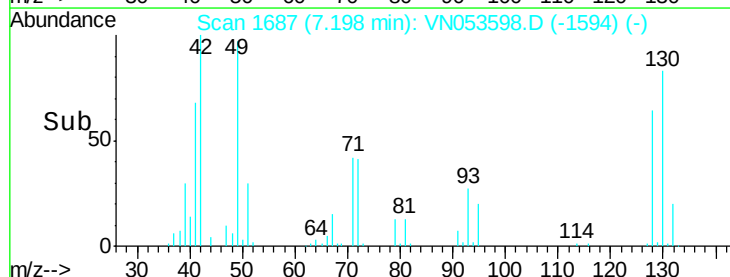
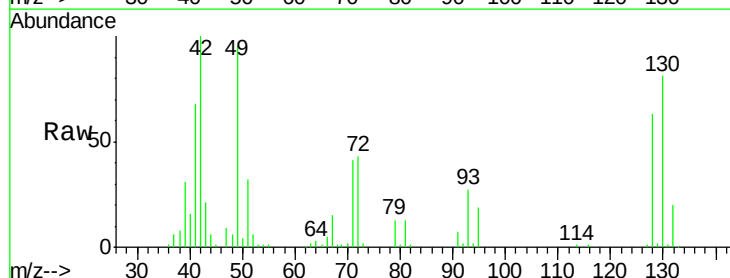
RT: 7.20 min Scan# 1687

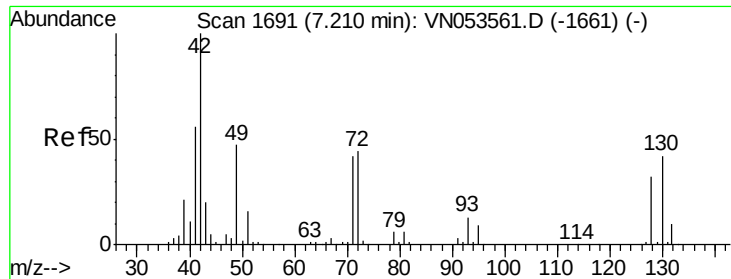
Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Tgt Ion:	49	Resp:	118142
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.0
130	84.0	66.3	99.5





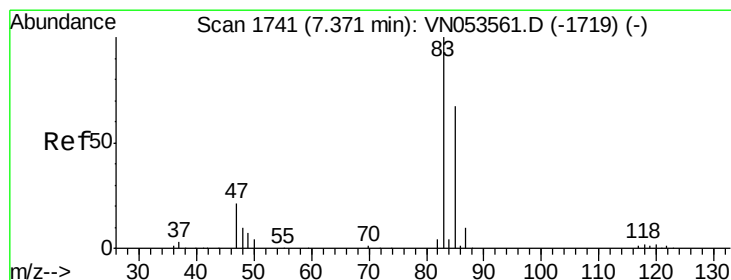
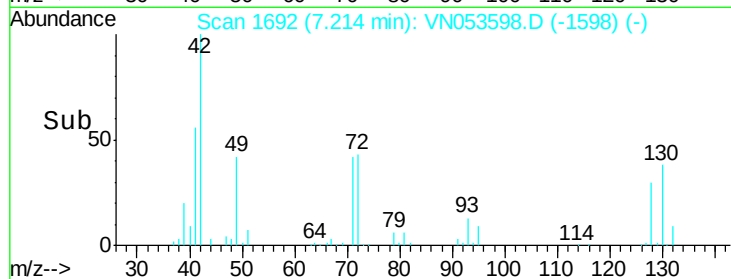
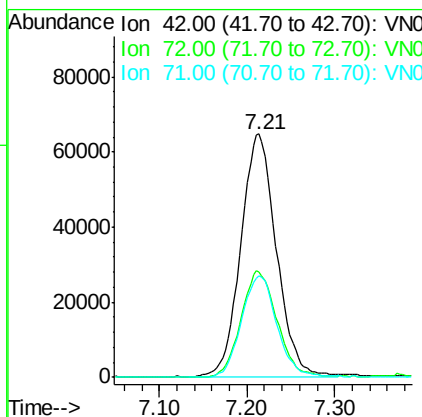
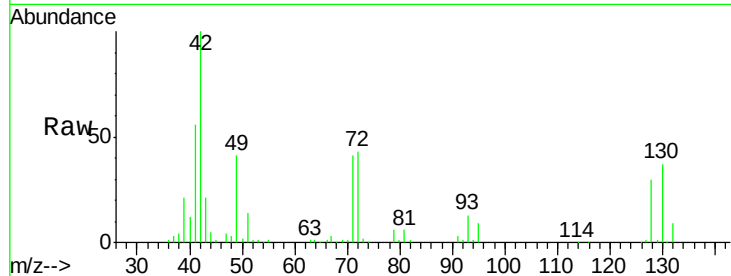
#29
Tetrahydrofuran
Concen: 107.976 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.7	35.2	52.8
71	41.8	33.0	49.4

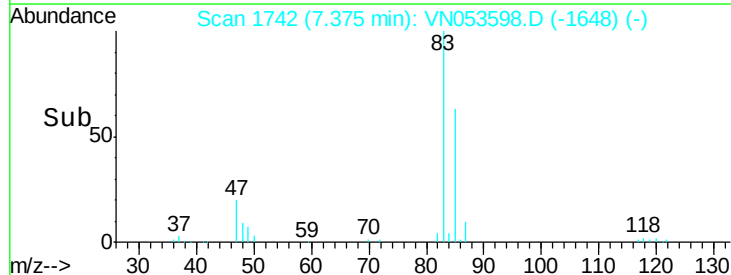
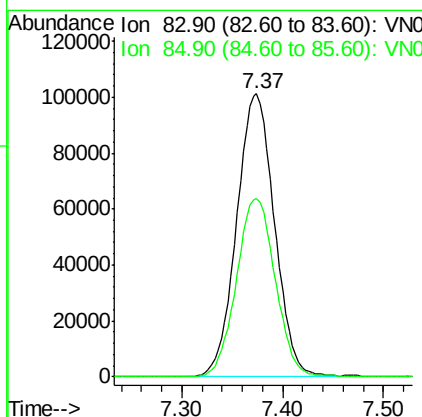
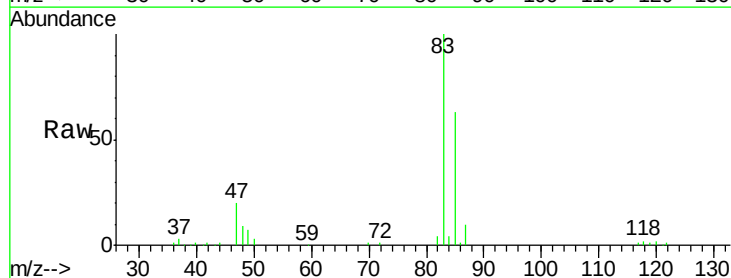
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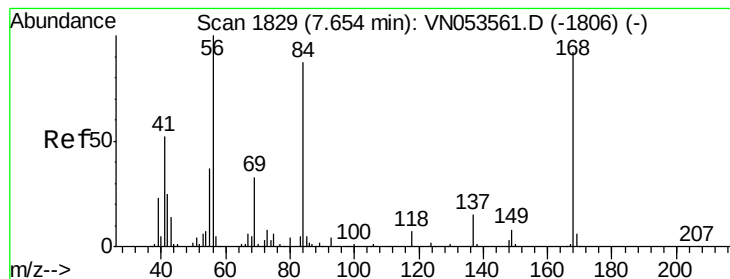
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#30
Chloroform
Concen: 20.302 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.2	78.2





#31

Cyclohexane

Concen: 19.773 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

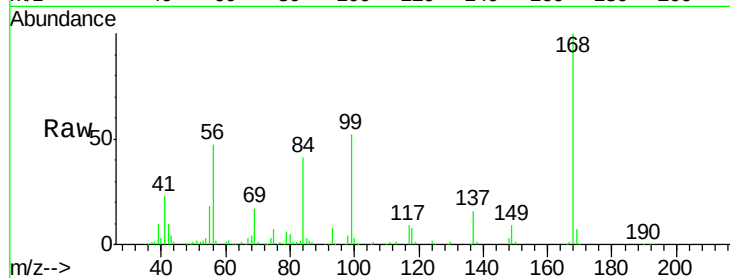
ClientSampleId :

VN0204MBSD01

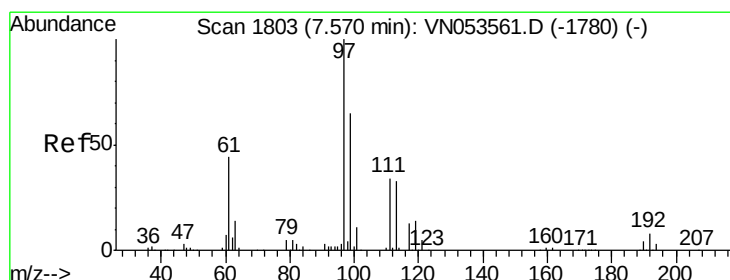
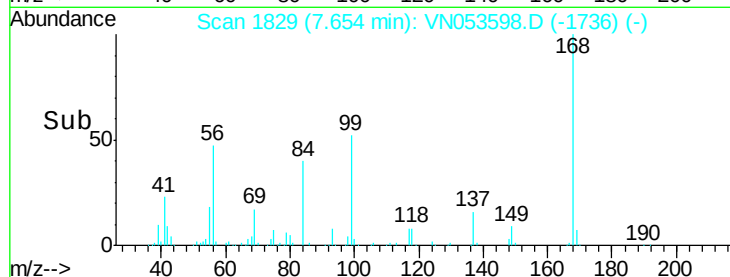
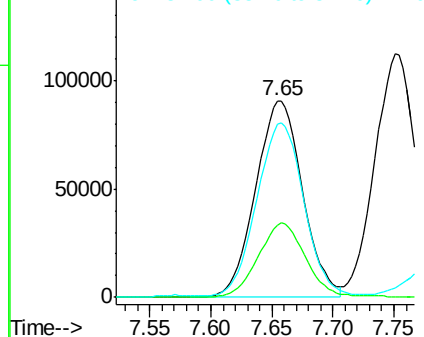
Tot Ion:	56	Resp:	241811
Ion Ratio	Lower	Upper	
56	100		
69	36.9	26.4	39.6
84	86.9	67.9	101.9

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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 19.825 ug/l

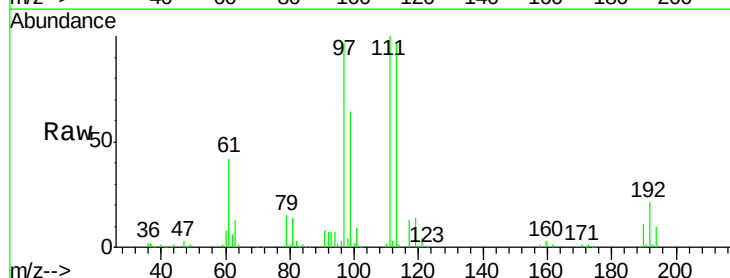
RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

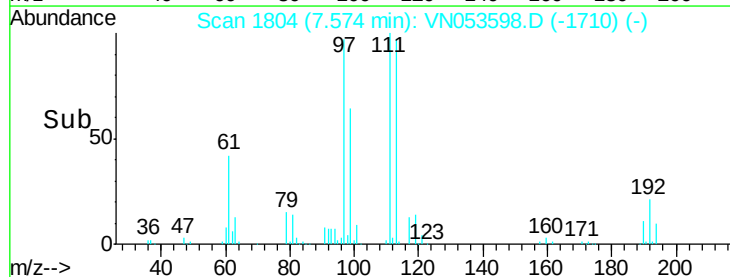
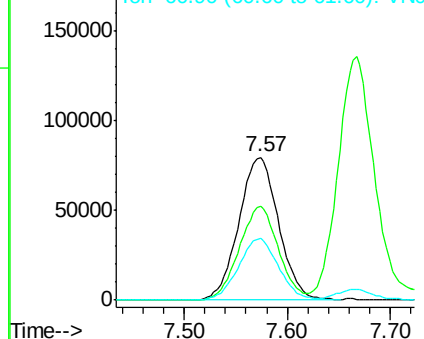
Lab File: VN053598.D

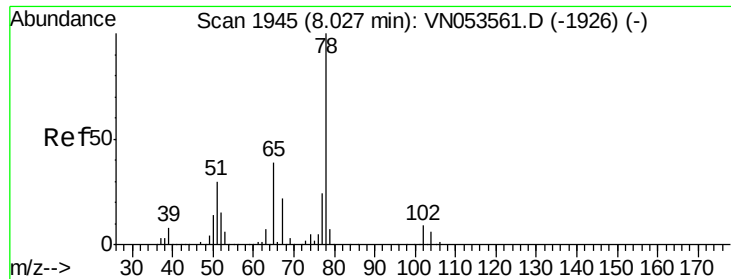
Acq: 4 Feb 2019 15:56

Tgt Ion:	97	Resp:	213715
Ion Ratio	Lower	Upper	
97	100		
99	64.6	52.0	78.0
61	43.4	34.4	51.6



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





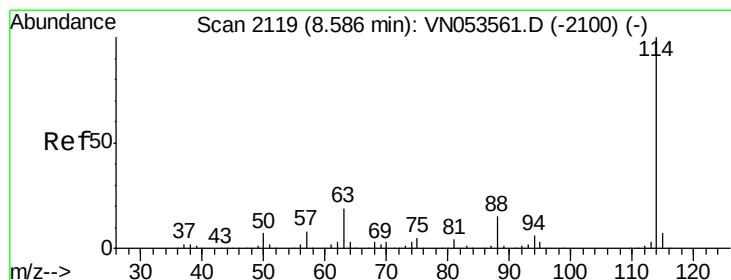
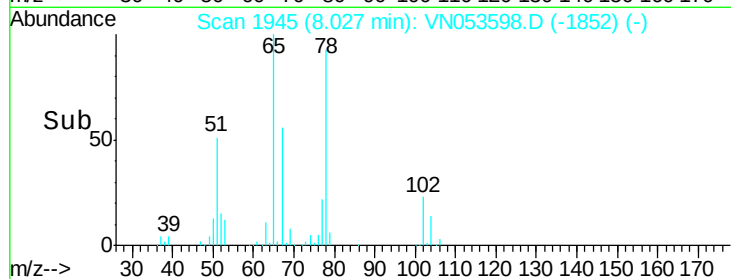
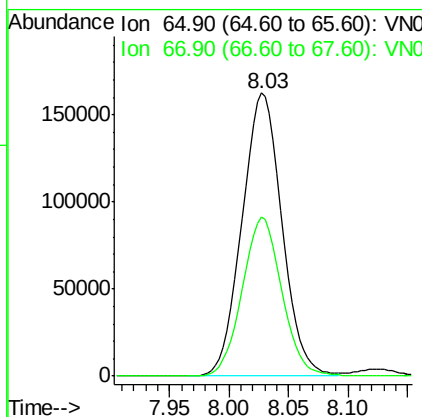
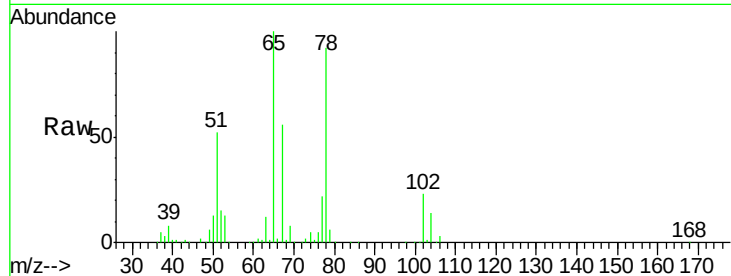
#33
 1,2-Dichloroethane-d4
 Concen: 19.825 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.6	0.0	111.2	

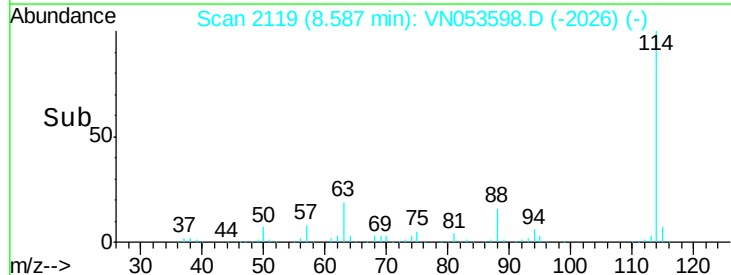
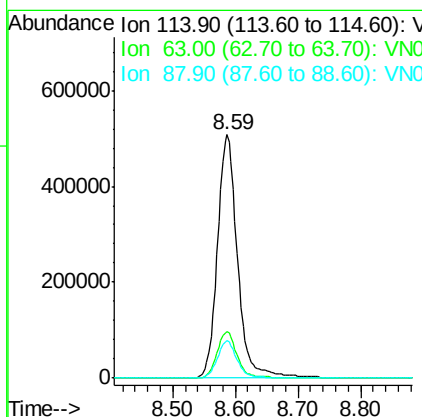
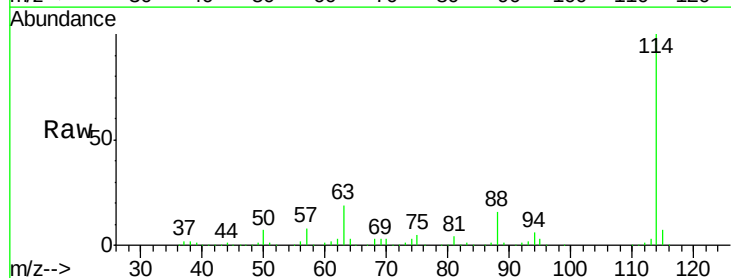
Manual Integrations
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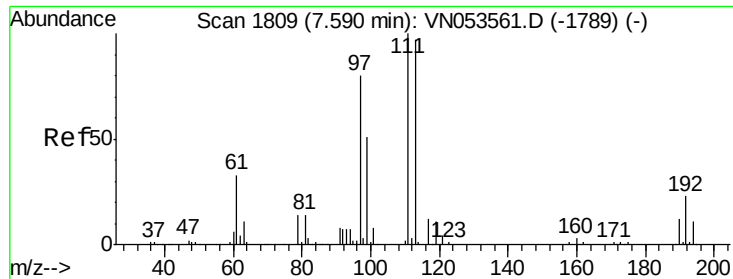
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.0	0.0	38.6	
88	15.5	0.0	30.4	





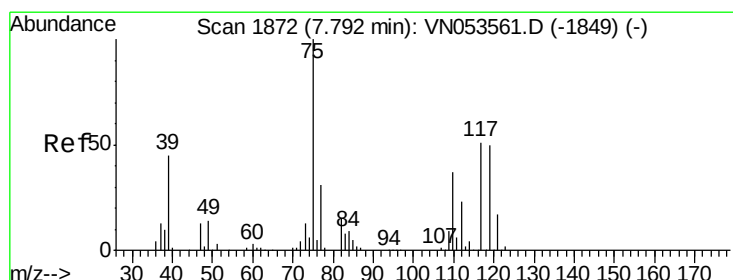
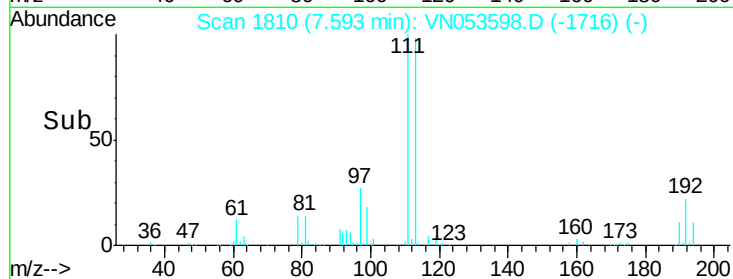
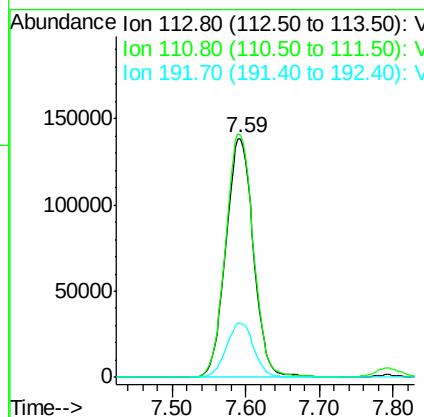
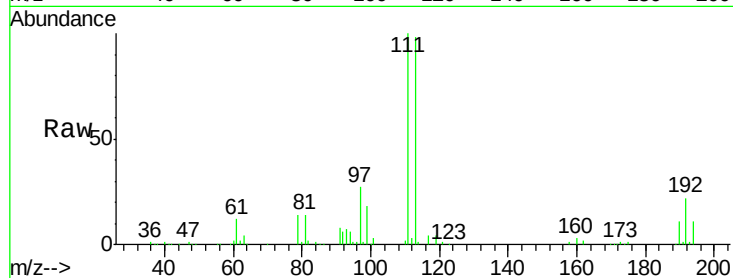
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	360154		
111	102.2	81.1	121.7	
192	22.7	18.2	27.2	

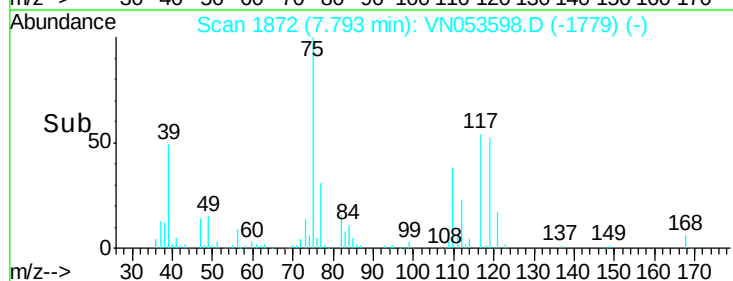
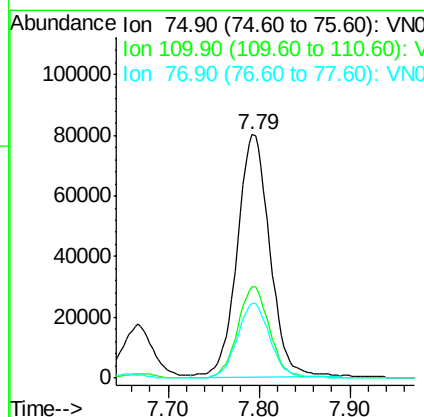
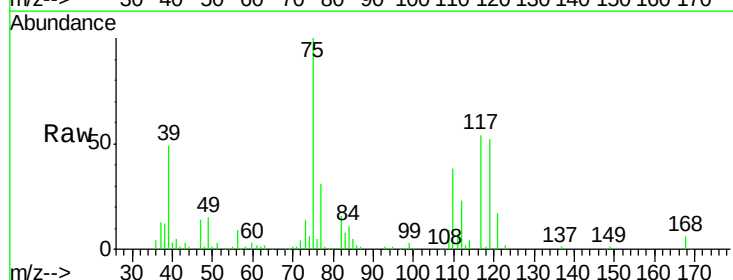
Manual Integrations
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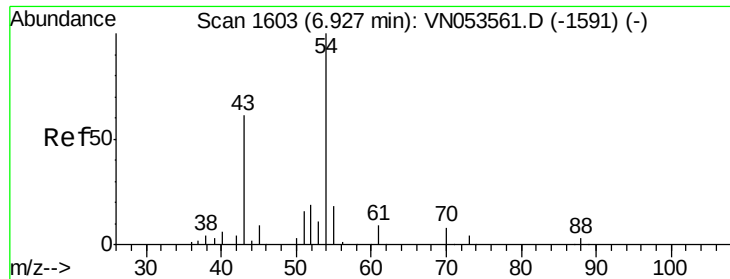
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 19.348 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	197533		
110	37.5	18.1	54.3	
77	30.6	25.1	37.7	





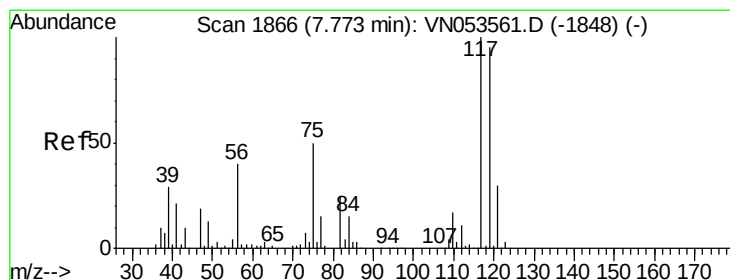
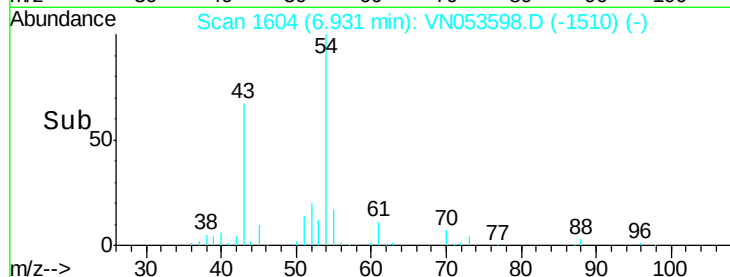
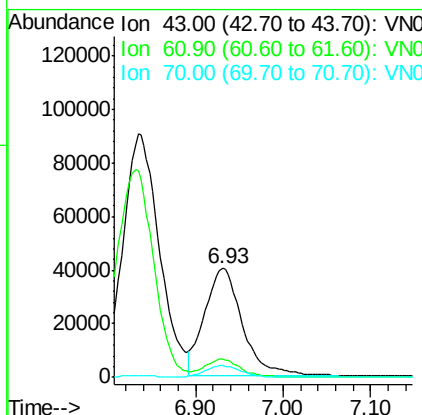
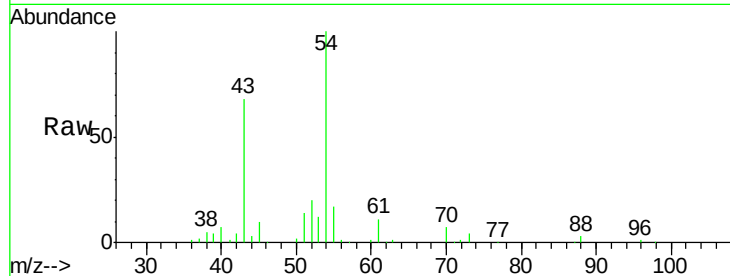
#37
Ethyl Acetate
Concen: 21.231 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.8	17.6
70	10.4	8.6	12.8

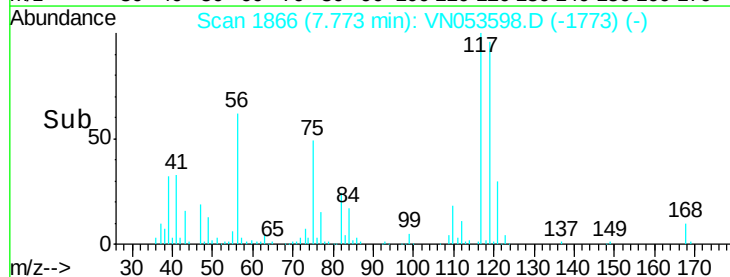
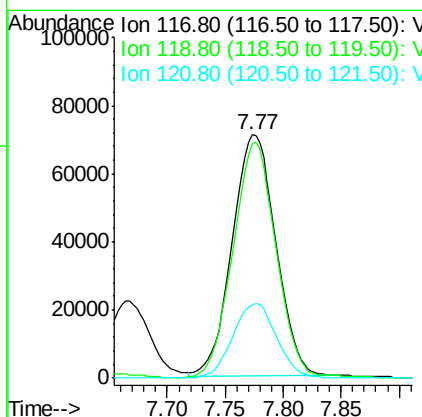
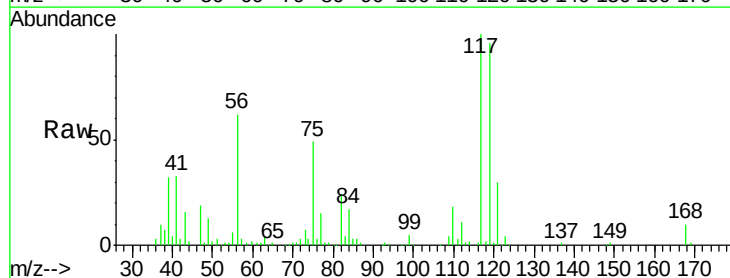
Manual Integrations
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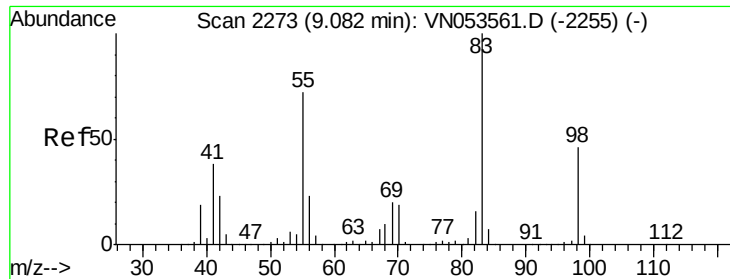
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#38
Carbon Tetrachloride
Concen: 18.071 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.2	115.8
121	30.3	24.6	37.0





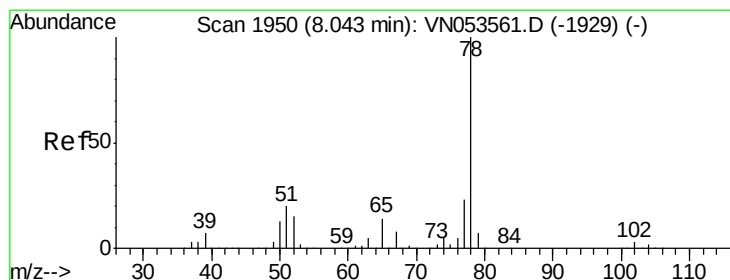
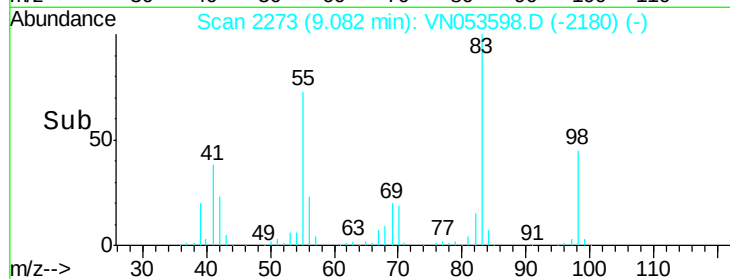
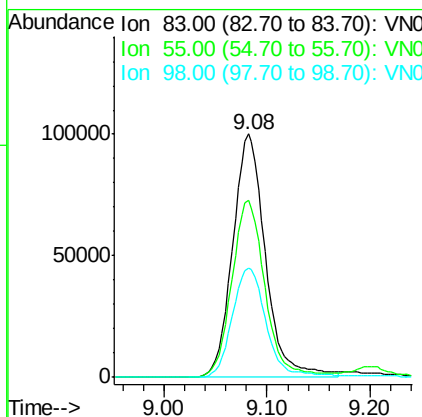
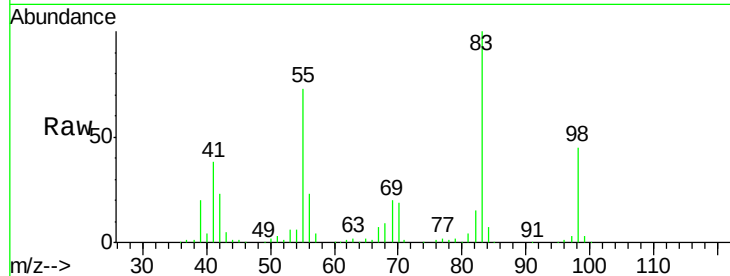
#39
Methylvlcyclohexane
Concen: 18.329 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	222000		
55	72.6		60.1	90.1
98	45.0		36.6	55.0

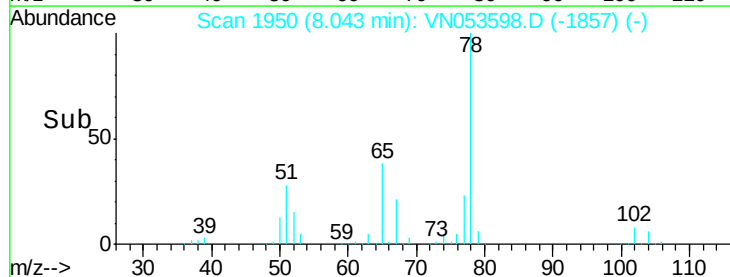
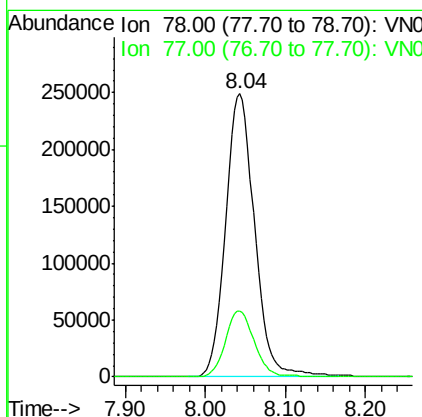
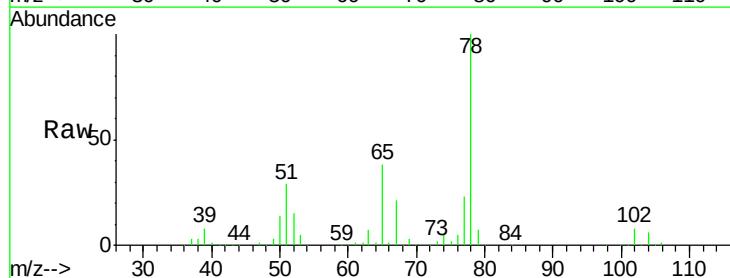
Manual Integrations
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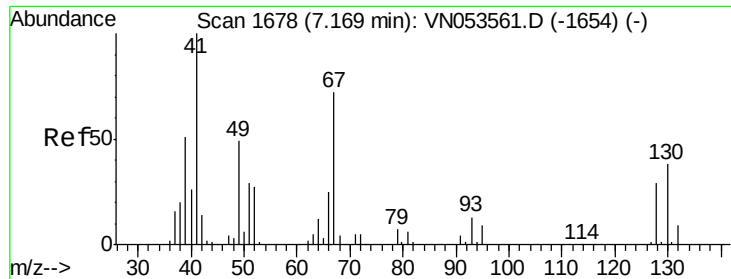
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#40
Benzene
Concen: 19.581 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	616461		
77	23.4		18.8	28.2





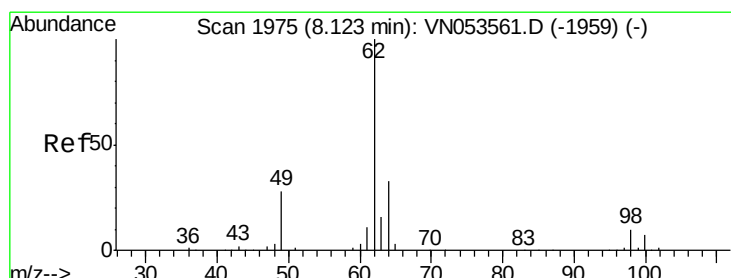
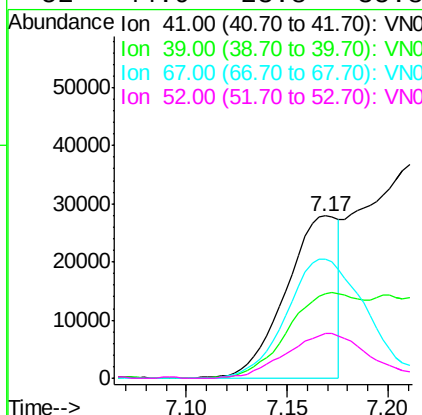
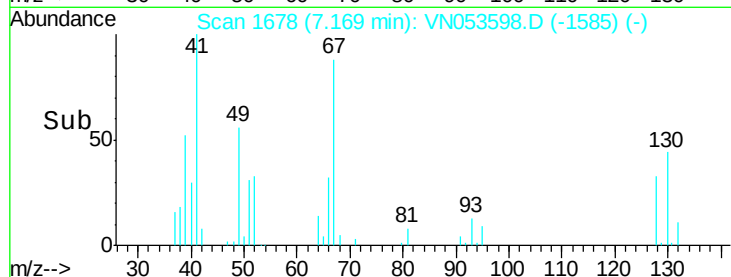
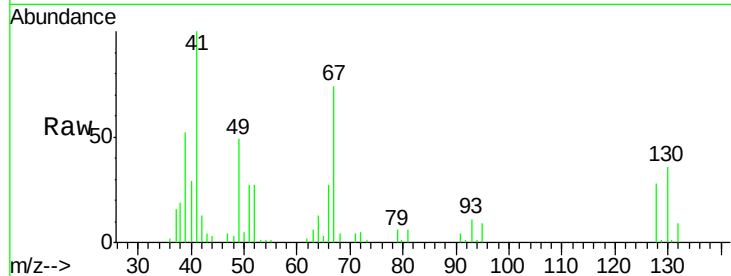
#41
Methacrylonitrile
Concen: 15.769 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	72.6	46.8	70.2#
67	115.2	63.0	94.6#
52	44.9	23.8	35.8#

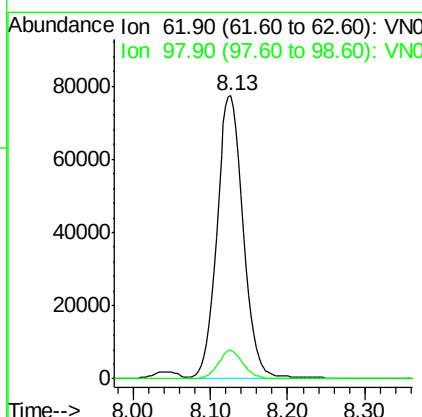
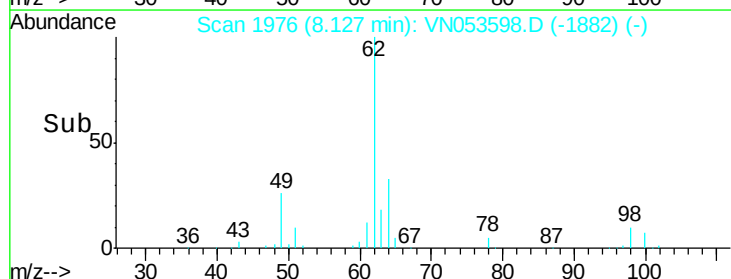
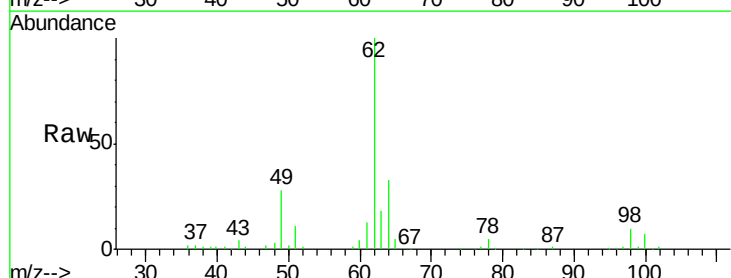
Manual Integrations
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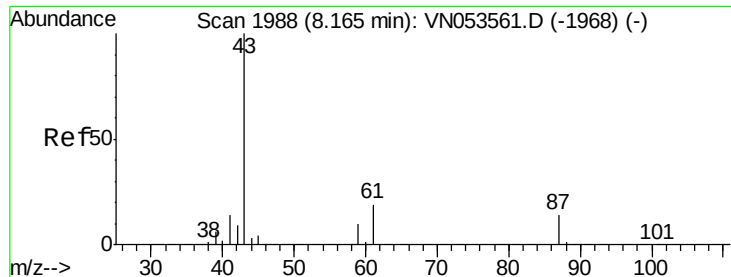
MMDadoda
2/5/2019 9:54:08 AM



#42
1,2-Dichloroethane
Concen: 19.497 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.6





#43

Isopropyl Acetate

Concen: 19.783 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

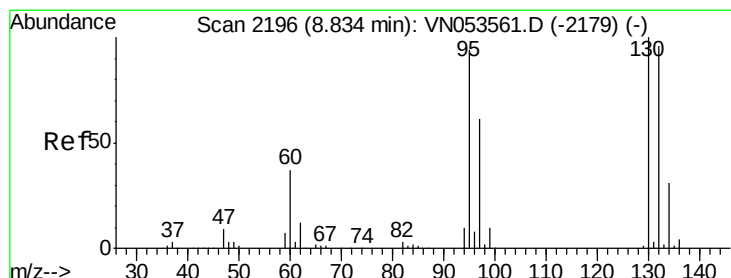
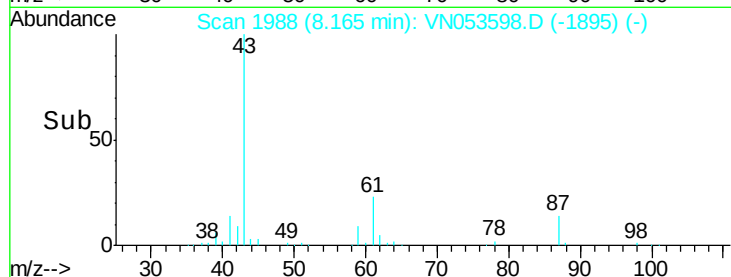
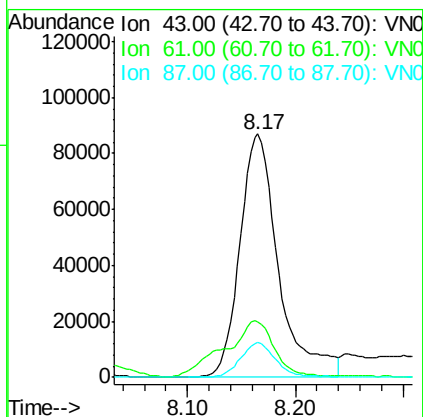
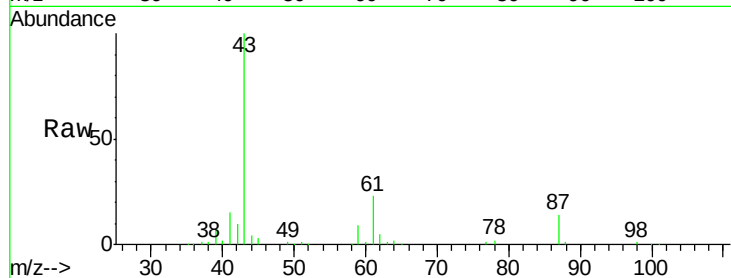
ClientSampleId :

VN0204MBSD01

Tot Ion:	43	Resp:	217843
Ion	Ratio	Lower	Upper
43	100		
61	29.5	23.9	35.9
87	12.8	11.0	16.6

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#44

Trichloroethene

Concen: 19.010 ug/l

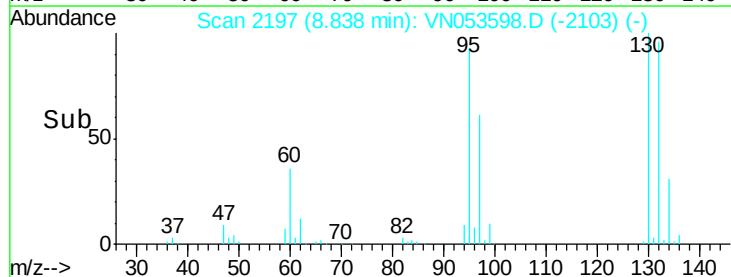
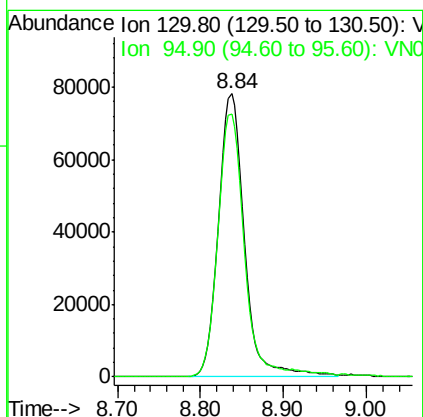
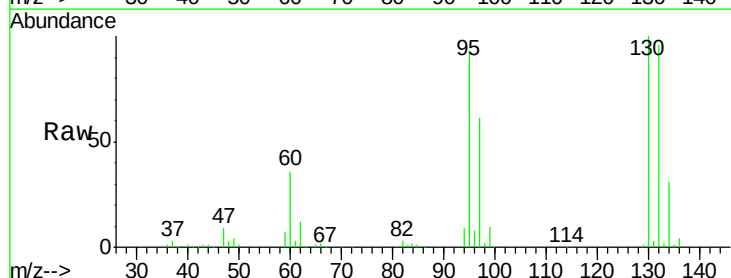
RT: 8.84 min Scan# 2197

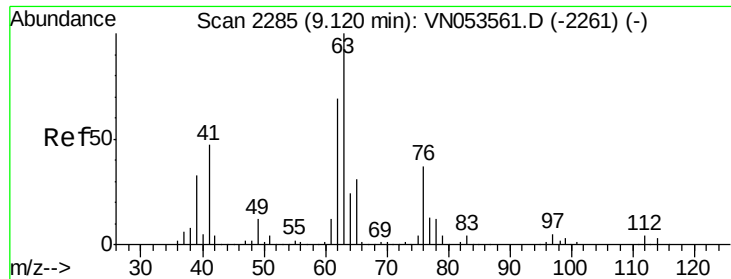
Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Tgt Ion:	130	Resp:	170382
Ion	Ratio	Lower	Upper
130	100		
95	92.7	0.0	191.4





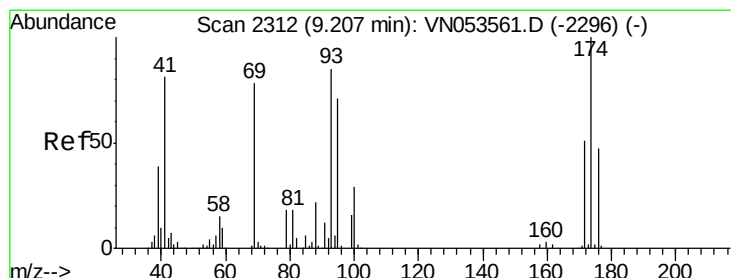
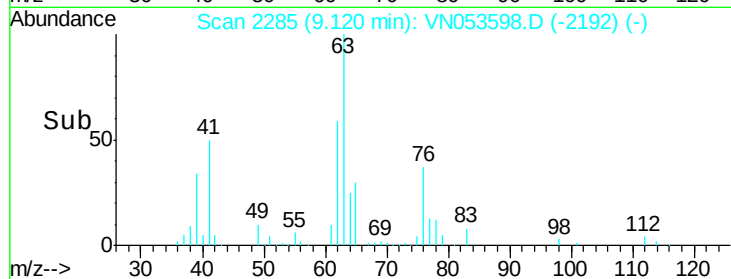
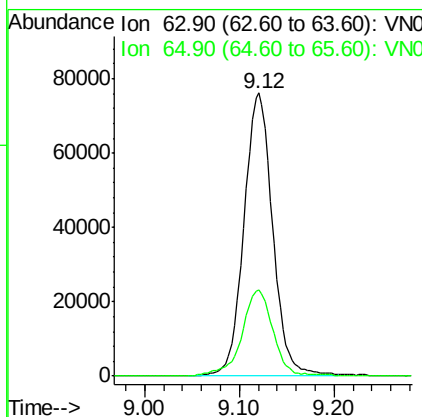
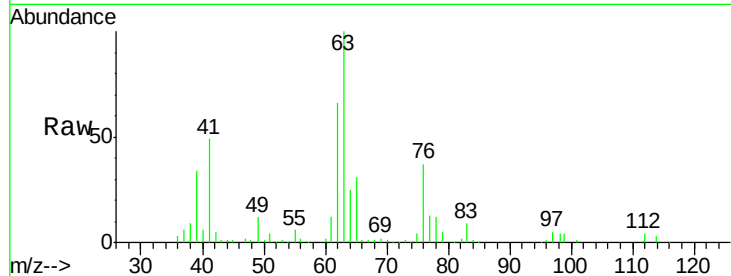
#45
 1,2-Dichloropropane
 Concen: 20.030 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion: 63 Resp: 161293
 Ion Ratio Lower Upper
 63 100
 65 30.5 25.0 37.4

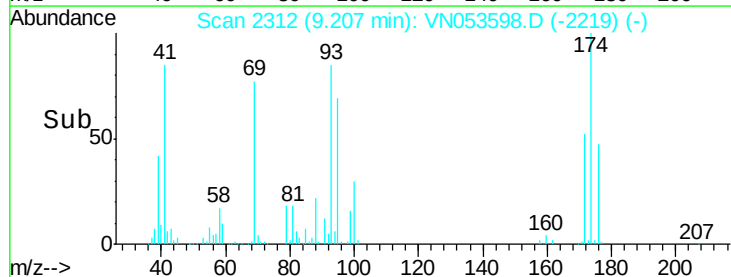
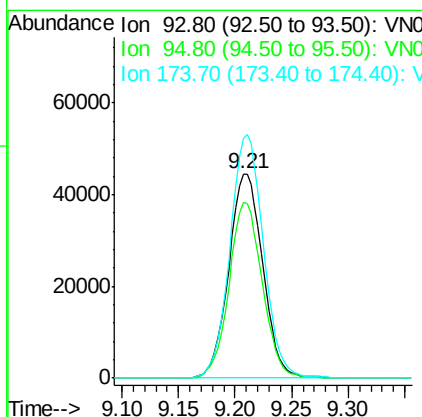
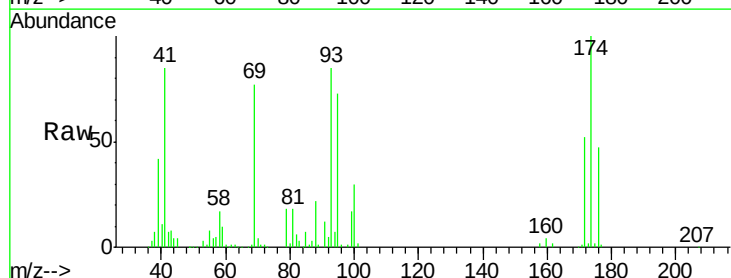
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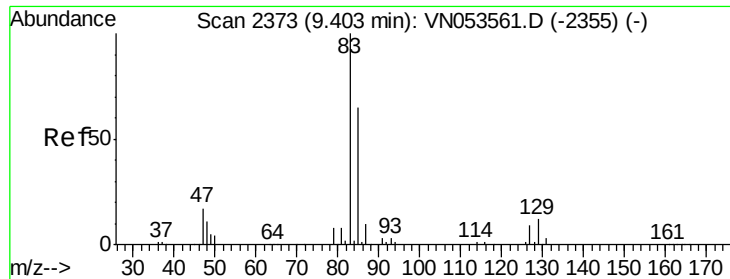
MMDadoda
 2/5/2019 9:54:08 AM



#46
 Dibromomethane
 Concen: 19.220 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion: 93 Resp: 93298
 Ion Ratio Lower Upper
 93 100
 95 84.1 67.3 100.9
 174 117.2 91.0 136.4





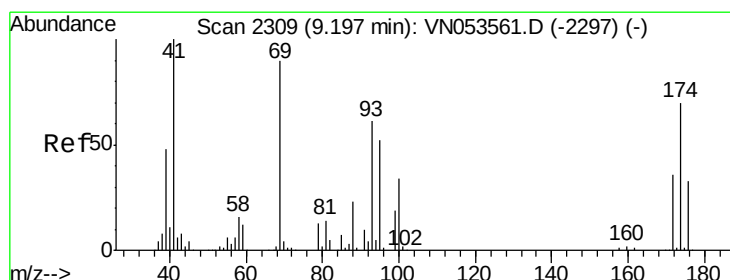
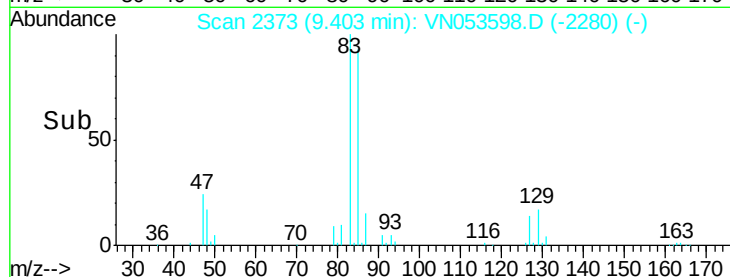
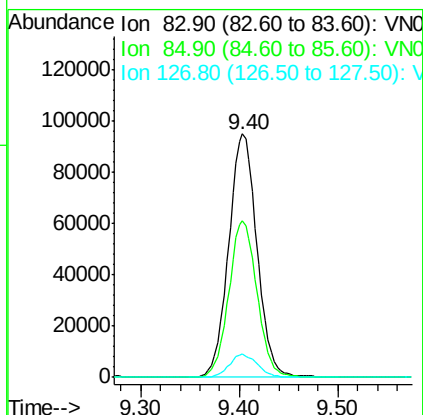
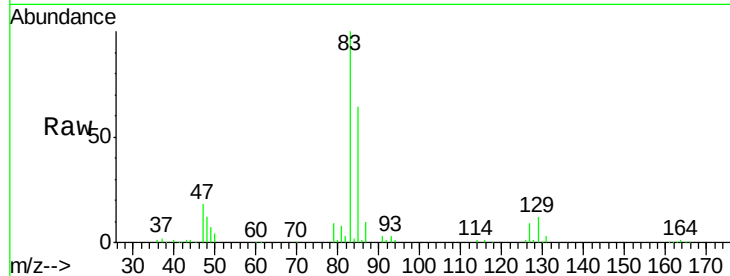
#47
Bromodichloromethane
Concen: 18.821 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	83	Resp	189954
Ion Ratio	100	Lower	Upper
83	100		
85	64.3	51.0	76.6
127	9.5	7.0	10.6

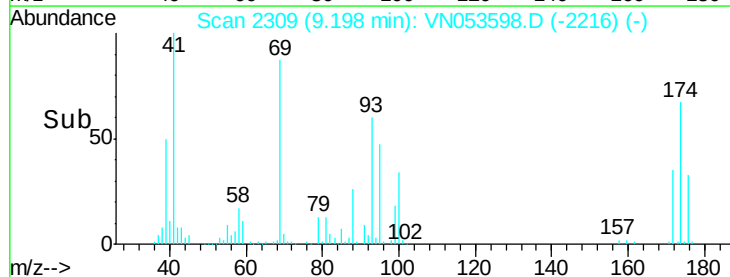
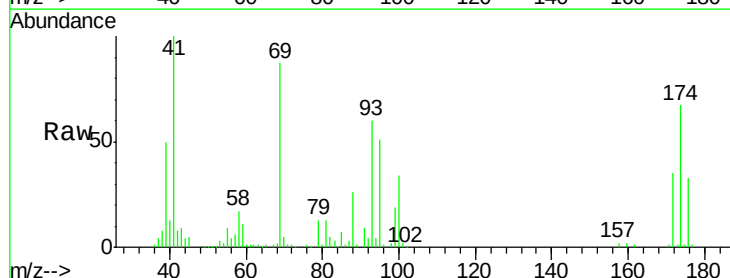
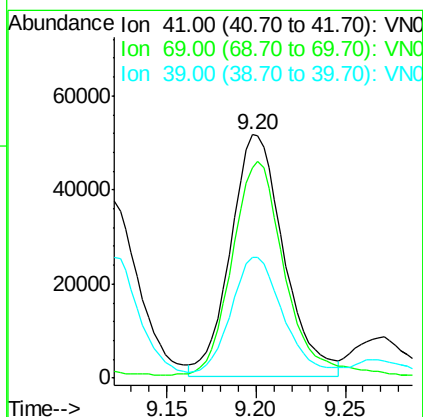
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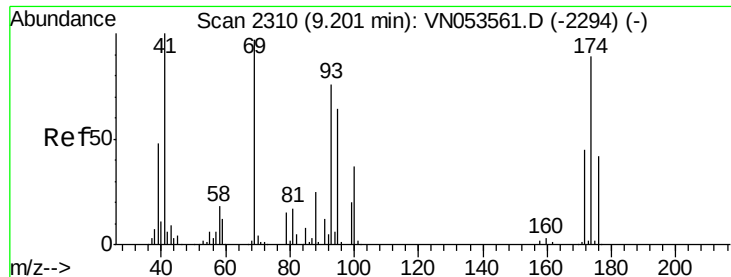
MMDadoda
2/5/2019 9:54:08 AM



#48
Methyl methacrylate
Concen: 20.395 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	41	Resp	107203
Ion Ratio	100	Lower	Upper
41	100		
69	89.2	73.8	110.6
39	49.6	40.0	60.0





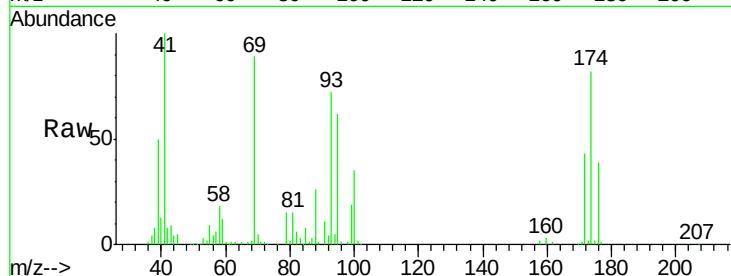
#49
1,4-Dioxane
Concen: 421.586 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	88	Resp	30317
Ion	Ratio	Lower	Upper
88	100		
43	25.3	27.8	41.6#
58	69.3	56.5	84.7

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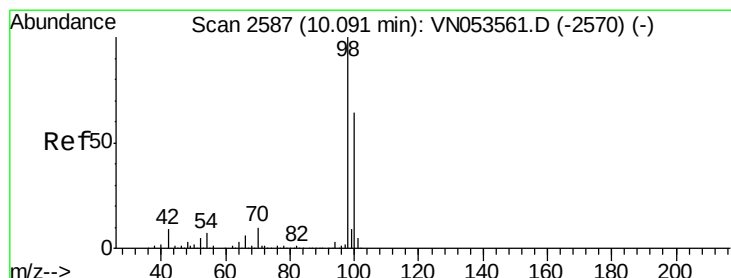
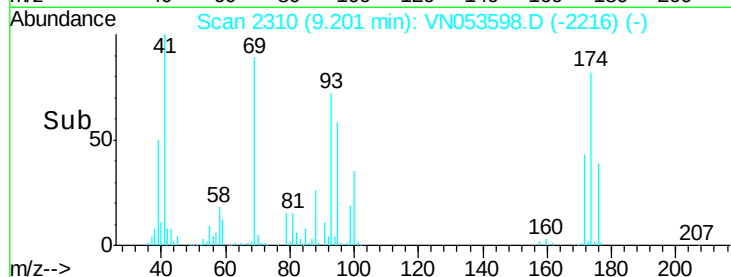
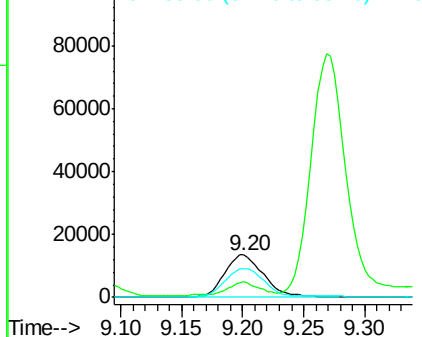


Abundance

Ion 88.00 (87.70 to 88.70): VN0

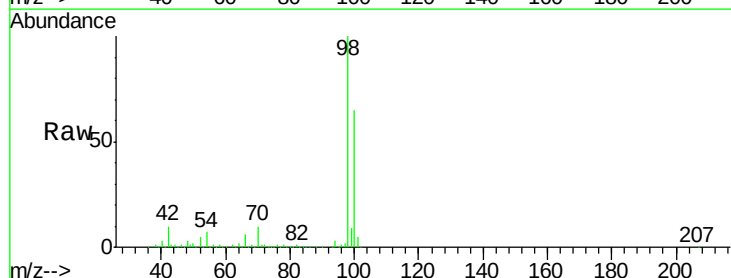
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 421.586 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

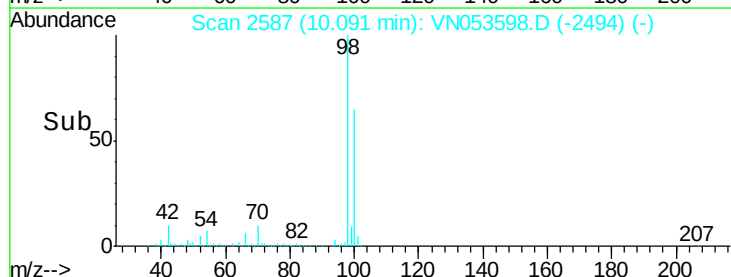
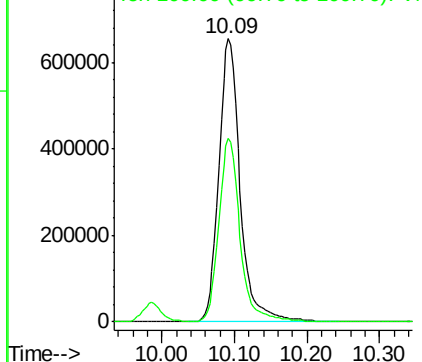
Tgt Ion	98	Resp	1331296
Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.4	77.0

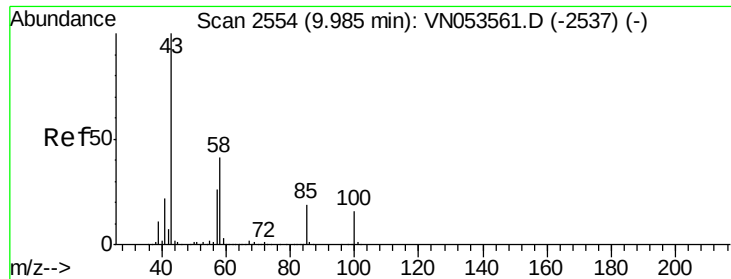


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





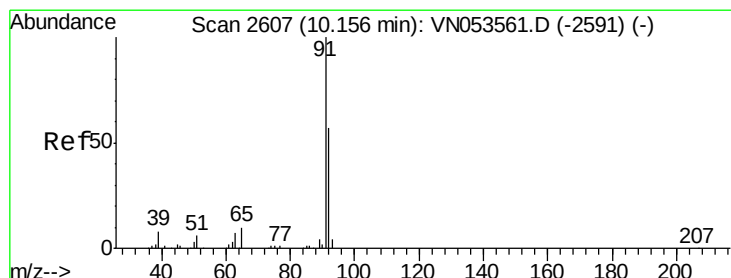
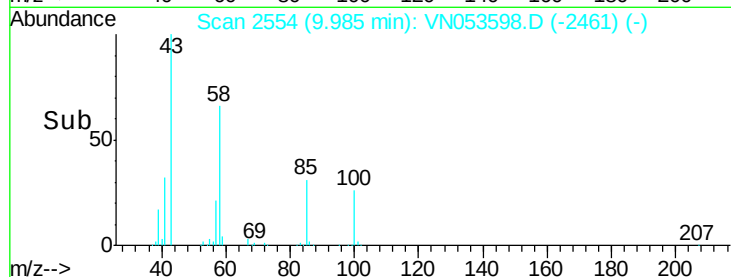
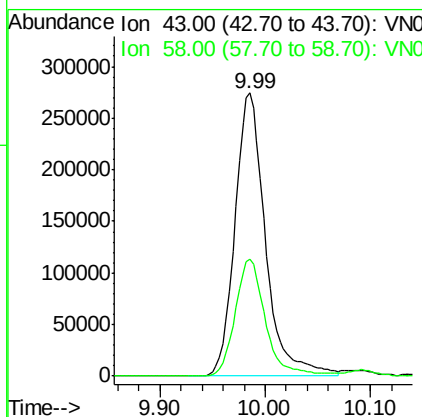
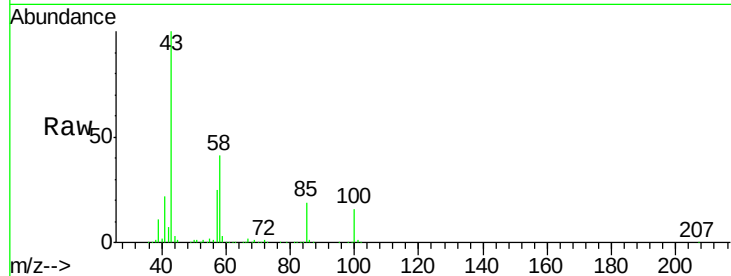
#51
 4-Methyl-2-Pentanone
 Concen: 101.376 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion: 43 Resp: 548559
 Ion Ratio Lower Upper
 43 100
 58 41.3 32.8 49.2

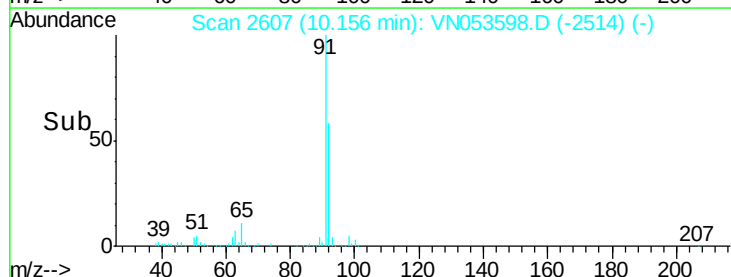
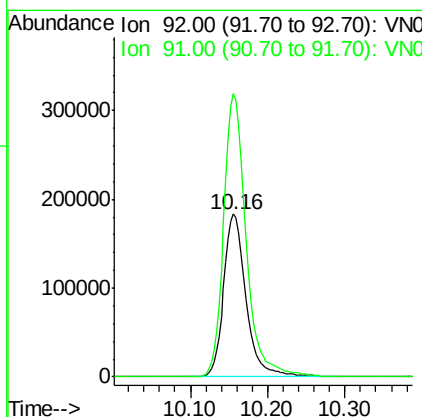
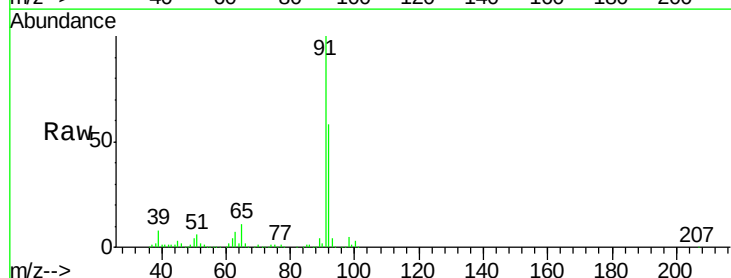
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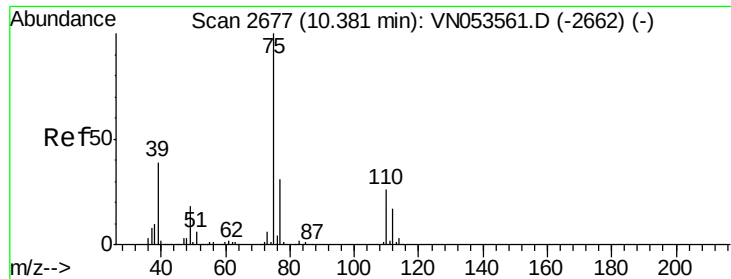
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#52
 Toluene
 Concen: 19.823 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion: 92 Resp: 370388
 Ion Ratio Lower Upper
 92 100
 91 174.1 139.9 209.9





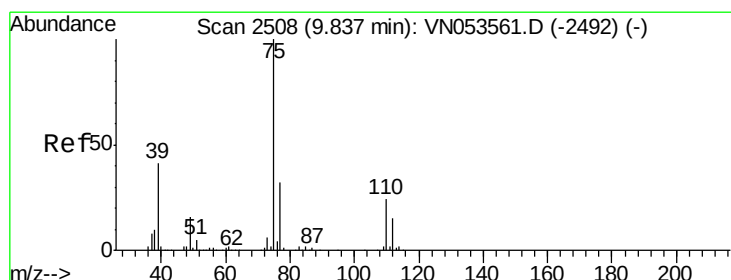
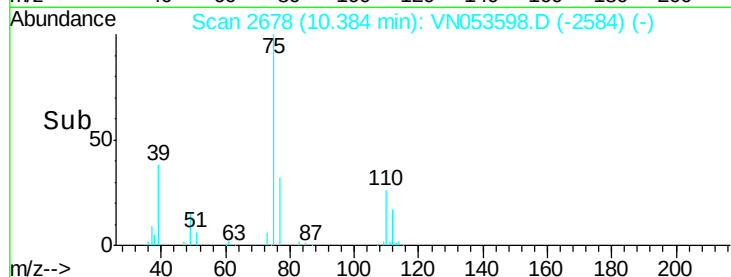
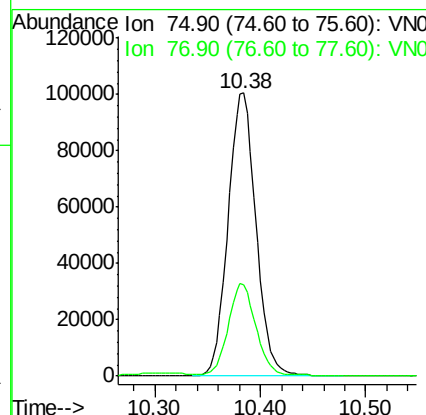
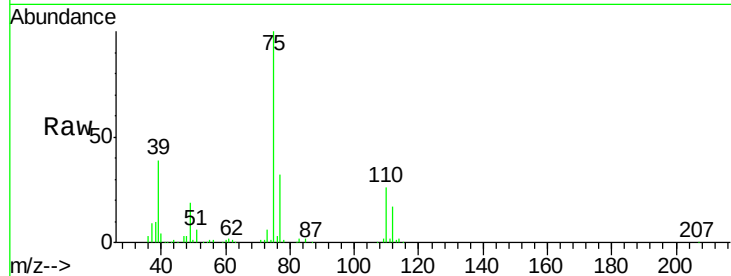
#53
t-1,3-Dichloropropene
Concen: 18.227 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	75	Resp	184208
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.5	38.3

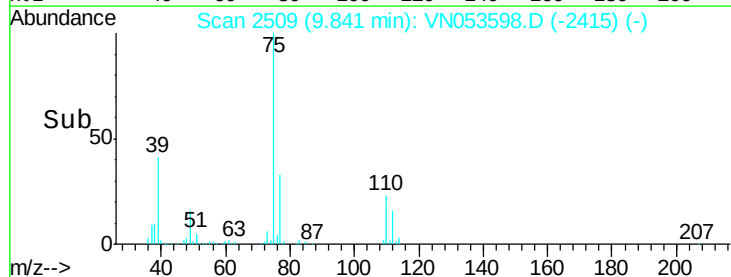
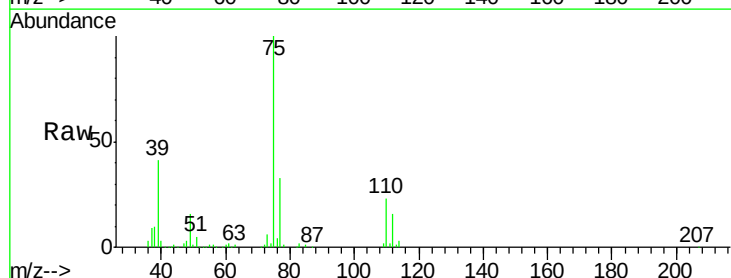
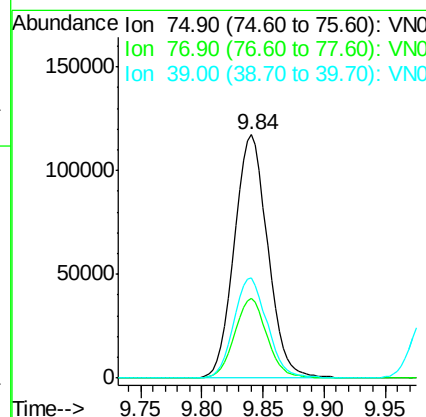
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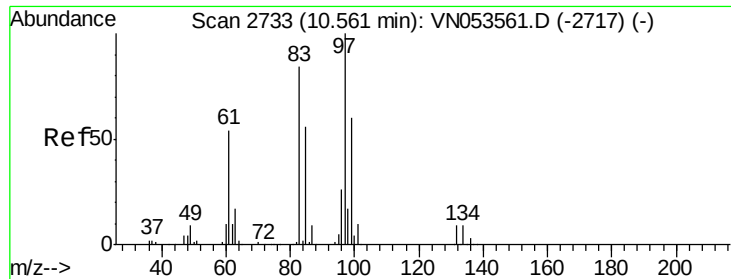
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2/5/2019 9:54:08 AM



#54
cis-1,3-Dichloropropene
Concen: 18.690 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	75	Resp	223824
Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.8	38.6
39	40.9	33.4	50.0





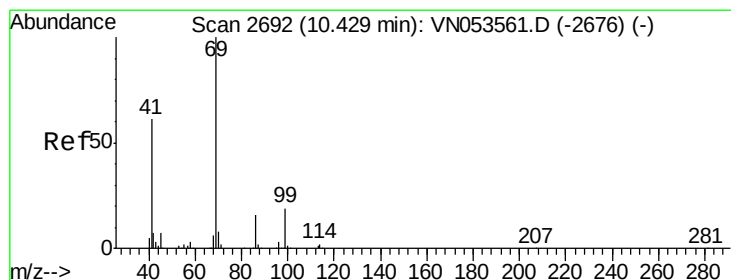
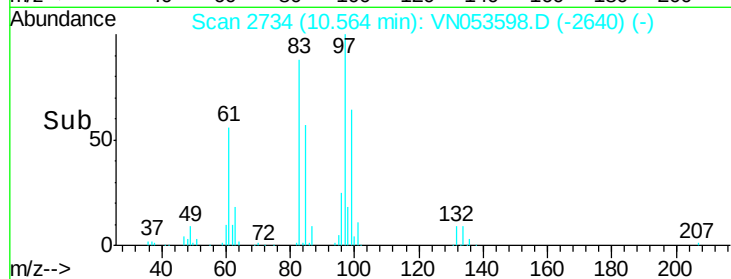
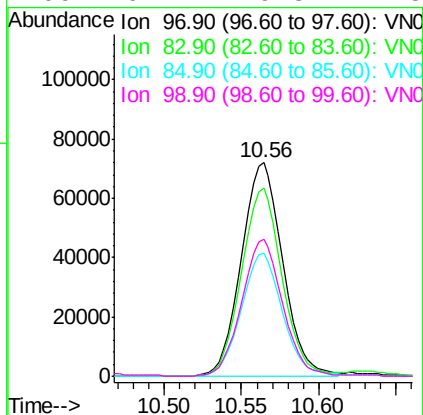
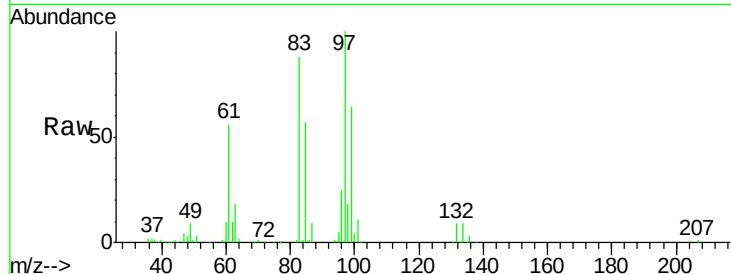
#55
 1,1,2-Trichloroethane
 Concen: 19.937 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion:	97	Resp:	134233
Ion	Ratio	Lower	Upper
97	100		
83	88.2	70.1	105.1
85	57.5	45.4	68.0
99	64.2	49.8	74.8

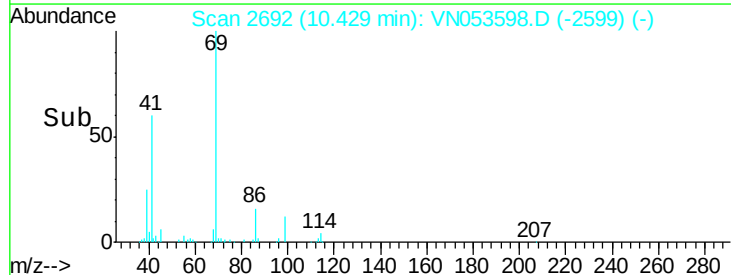
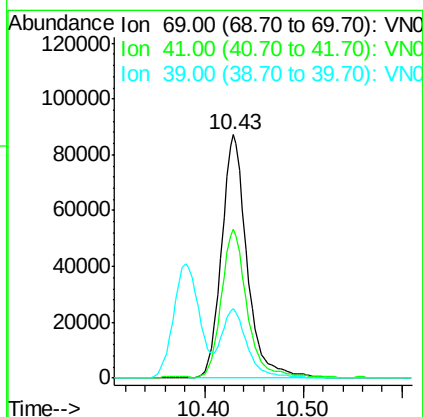
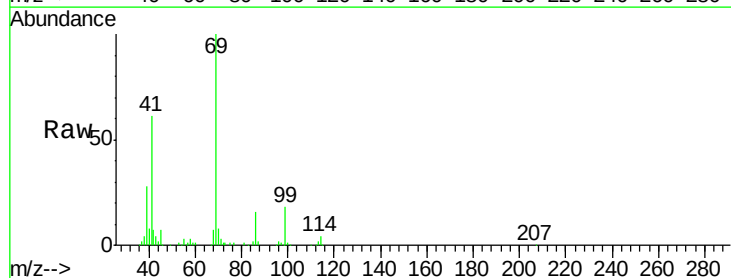
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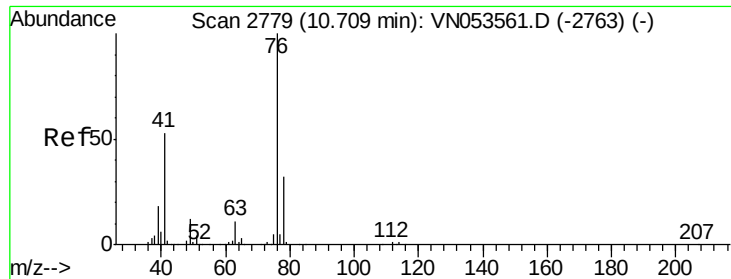
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#56
 Ethyl methacrylate
 Concen: 19.871 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion:	69	Resp:	158269
Ion	Ratio	Lower	Upper
69	100		
41	60.6	49.4	74.0
39	28.9	23.3	34.9





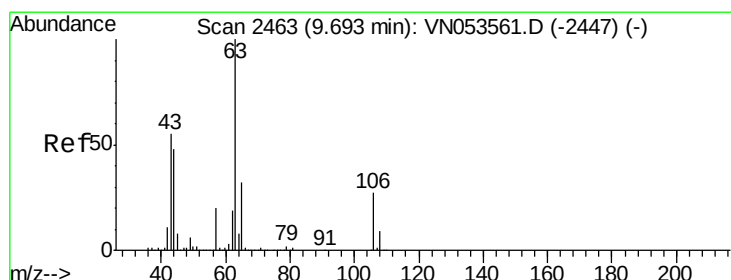
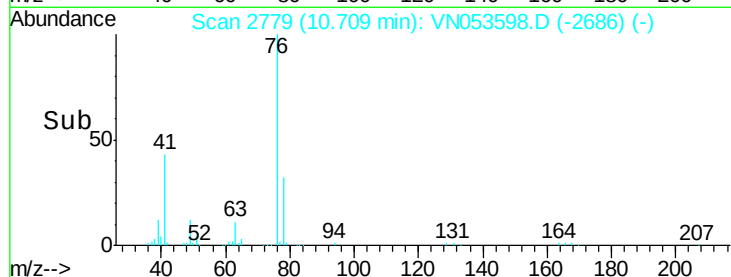
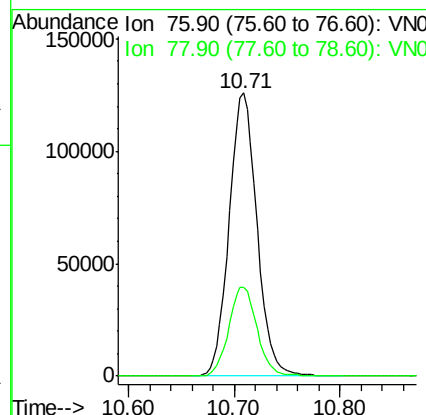
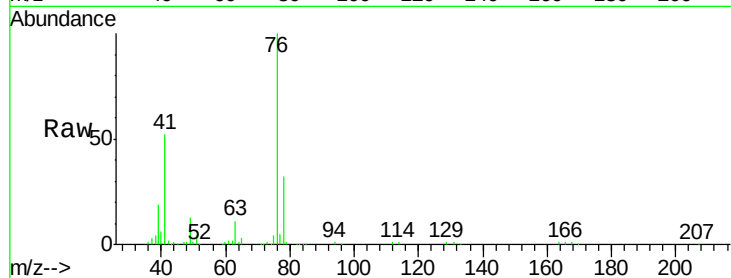
#57
 1,3-Dichloropropane
 Concen: 19.968 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.6	38.4

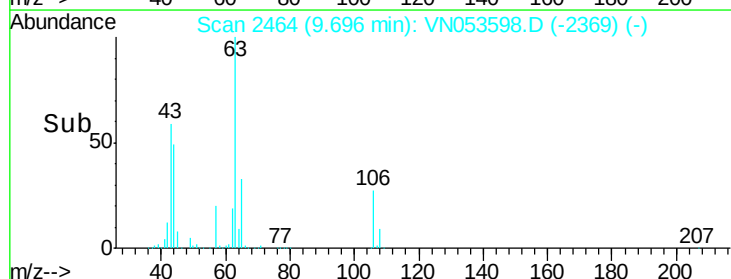
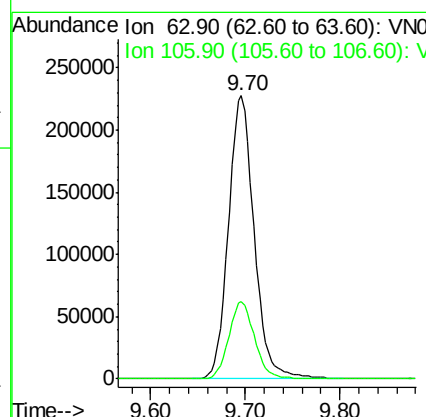
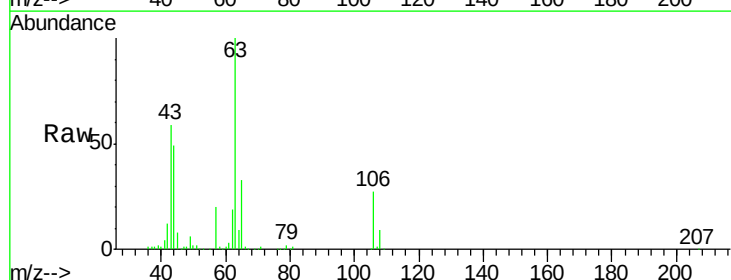
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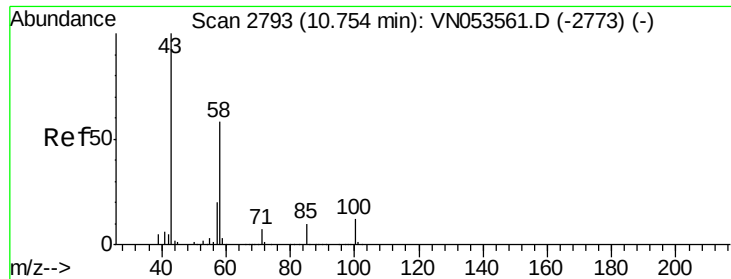
MMDadoda
 2/5/2019 9:54:08 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 92.210 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.5	32.3





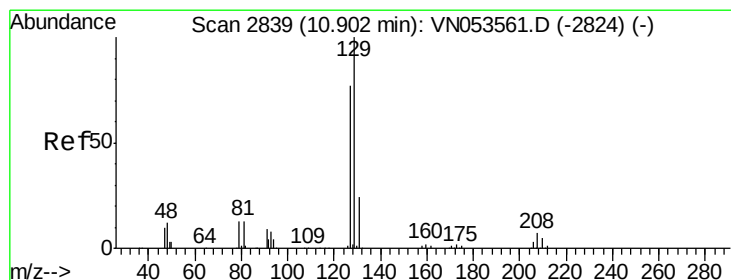
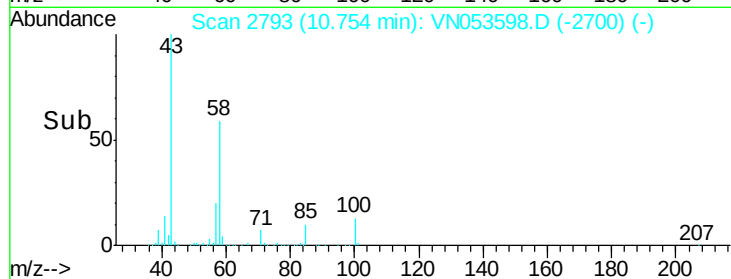
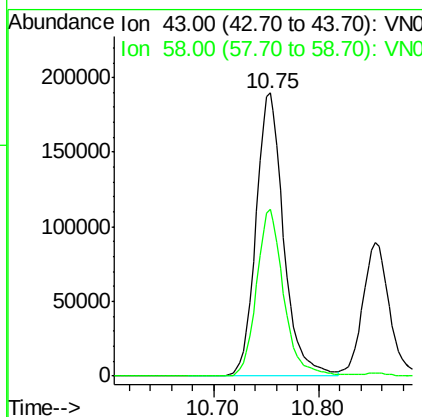
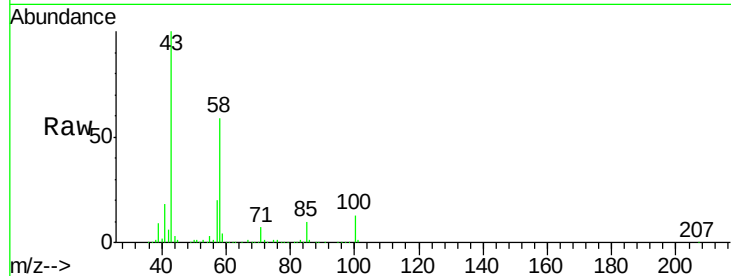
#59
2-Hexanone
Concen: 94.122 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion: 43 Resp: 345751
Ion Ratio Lower Upper
43 100
58 57.9 28.6 85.8

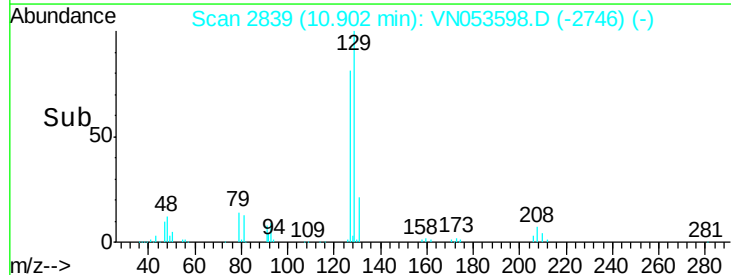
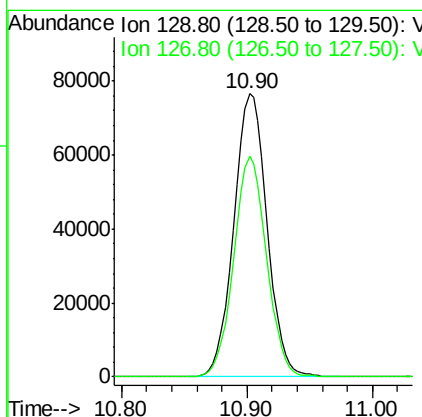
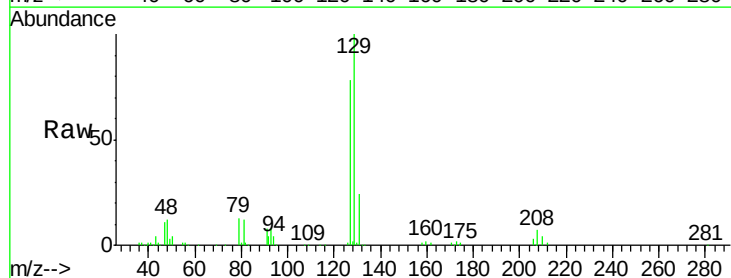
Manual Integrations
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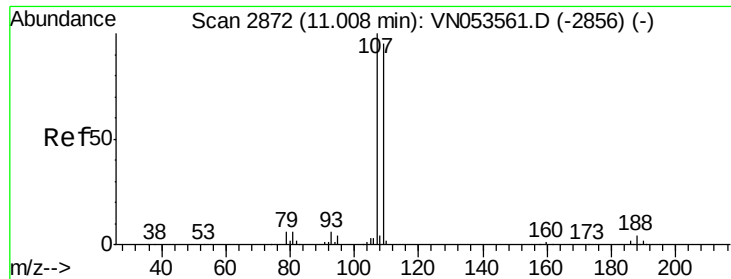
MMDadoda
2/5/2019 9:54:08 AM



#60
Dibromochloromethane
Concen: 18.545 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion: 129 Resp: 140804
Ion Ratio Lower Upper
129 100
127 77.0 38.6 115.8





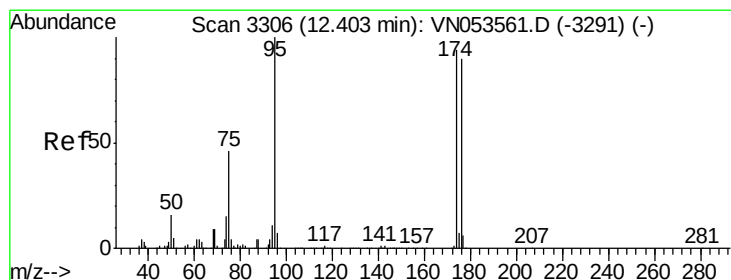
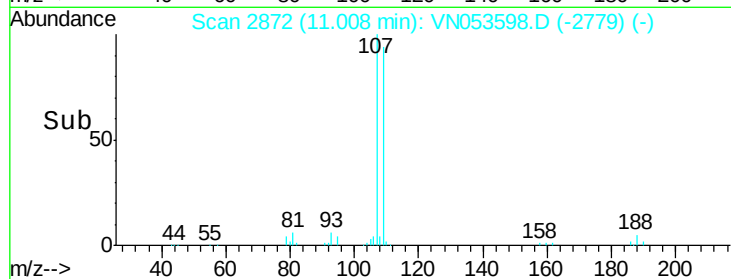
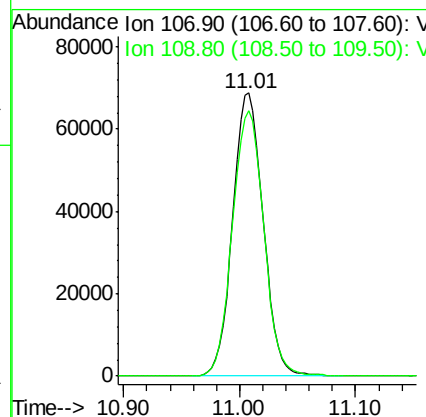
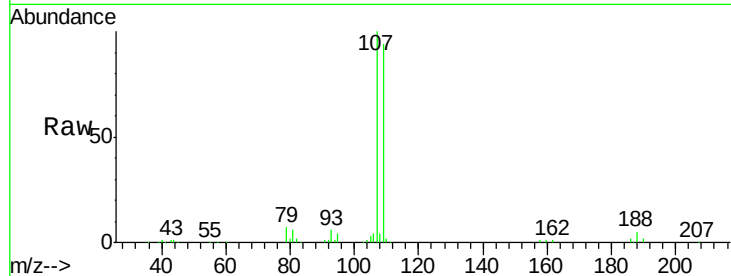
#61
 1,2-Dibromoethane
 Concen: 18.805 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	125319		
109	96.5	75.7	113.5	

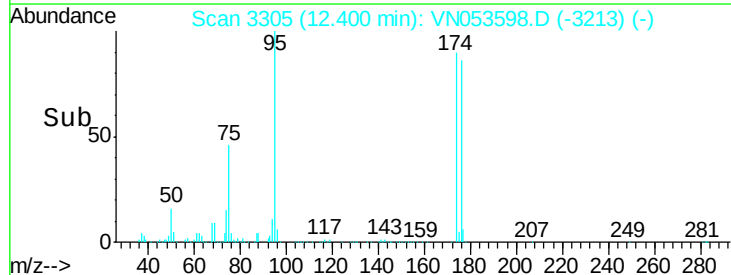
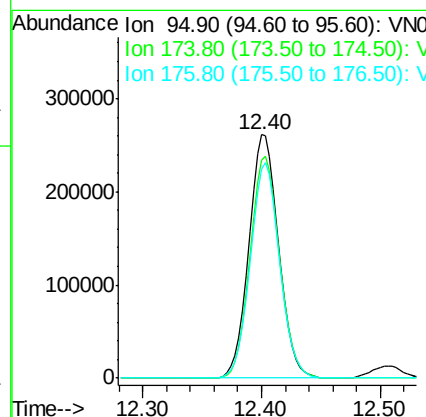
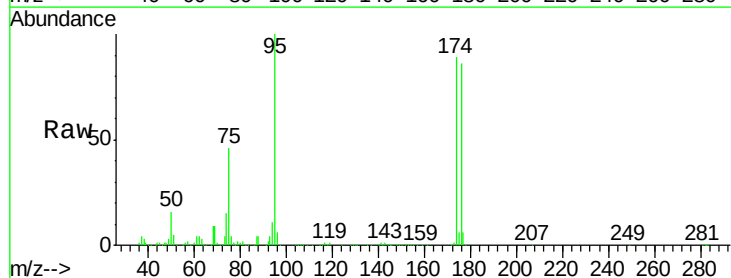
Manual Integrations
 APPROVED

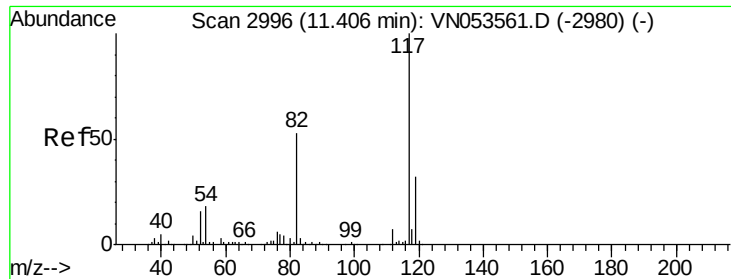
MMDadoda
 2/5/2019 9:54:08 AM



#62
 4-Bromofluorobenzene
 Concen: 18.805 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	451129		
174	90.6	0.0	183.2	
176	87.2	0.0	177.4	





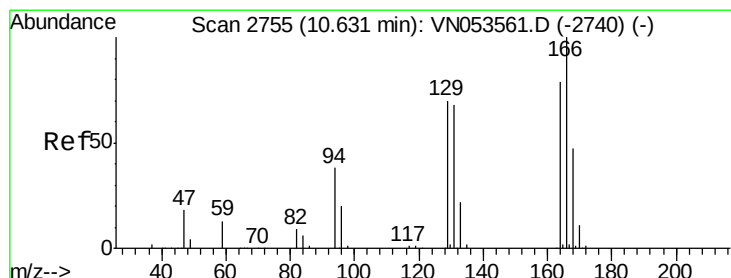
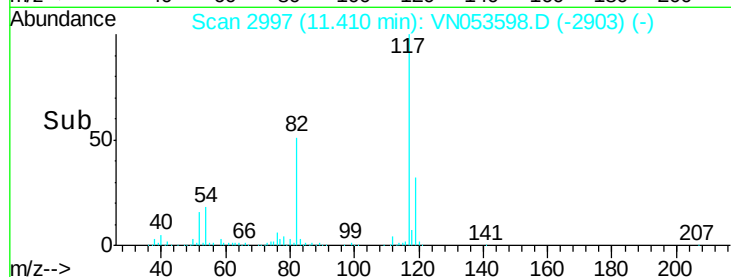
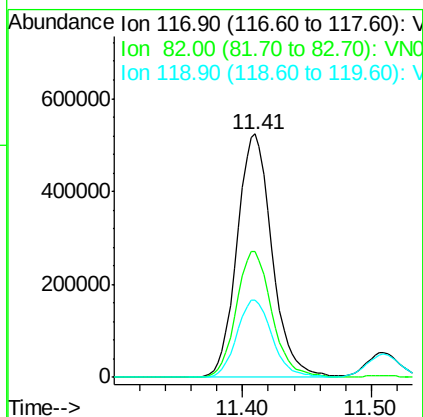
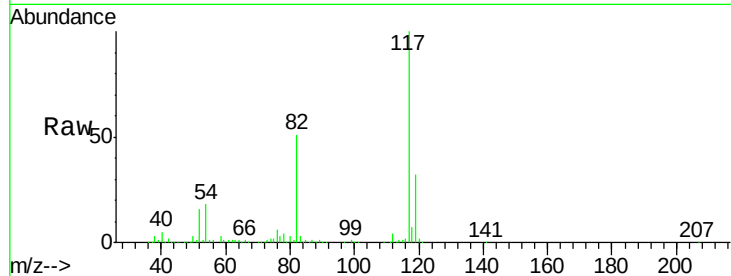
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampled :
VN0204MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	990859		
82	51.5		42.9	64.3
119	31.9		26.0	39.0

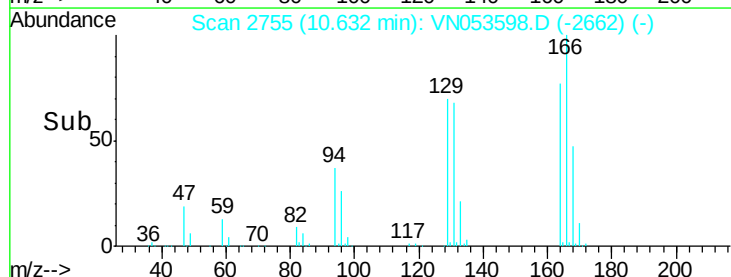
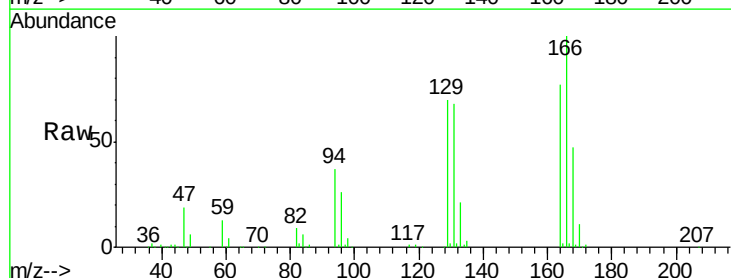
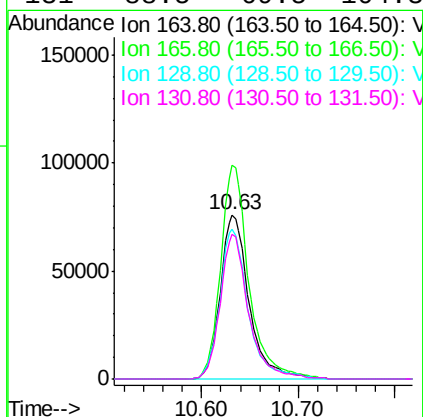
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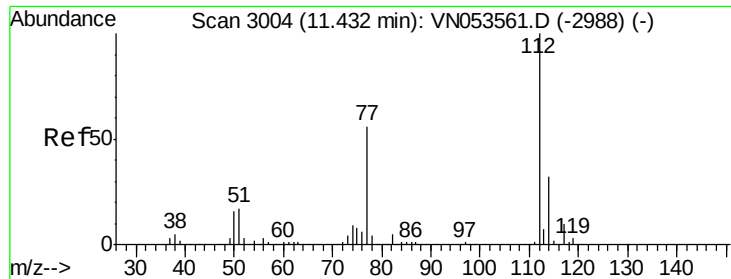
MMDadoda
2/5/2019 9:54:08 AM



#64
Tetrachloroethene
Concen: 18.505 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	157181		
166	130.2		102.2	153.4
129	91.1		72.6	109.0
131	88.5		69.5	104.3





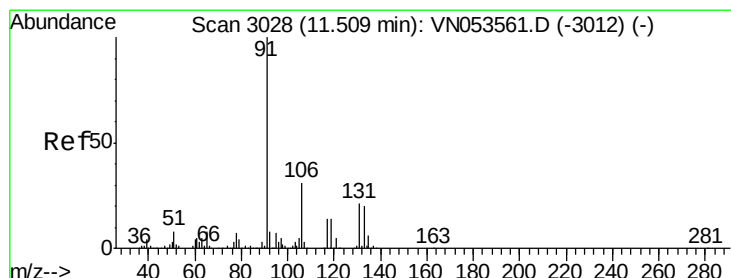
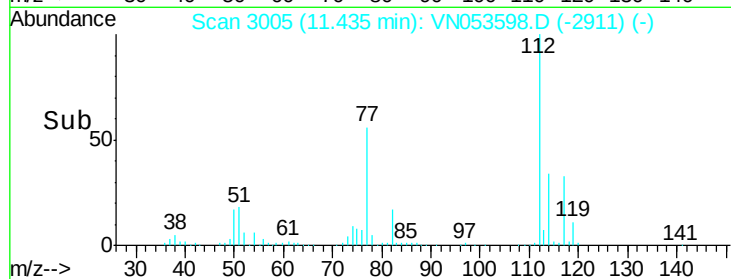
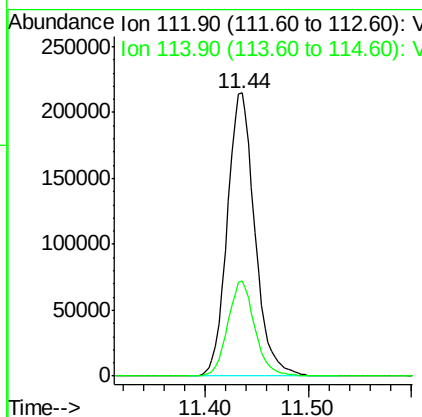
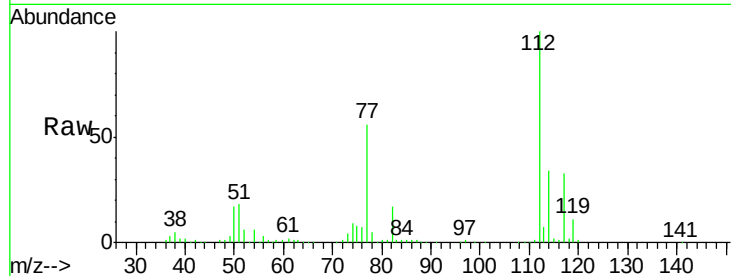
#65
Chlorobenzene
Concen: 19.031 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampled :
VN0204MBSD01

Tot Ion:112 Resp: 400539
Ion Ratio Lower Upper
112 100
114 33.7 25.3 37.9

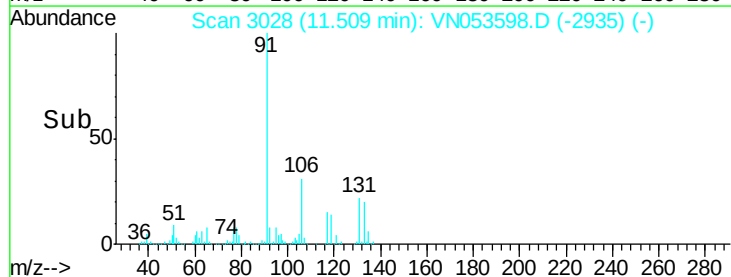
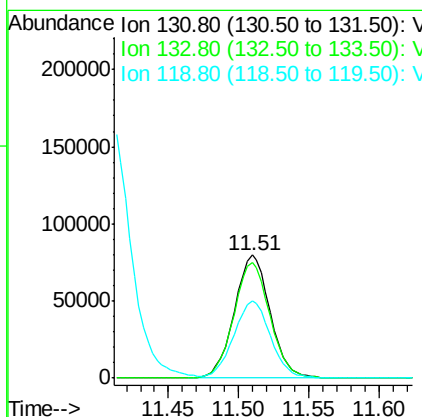
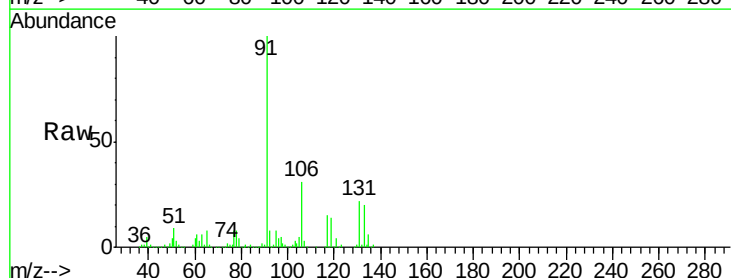
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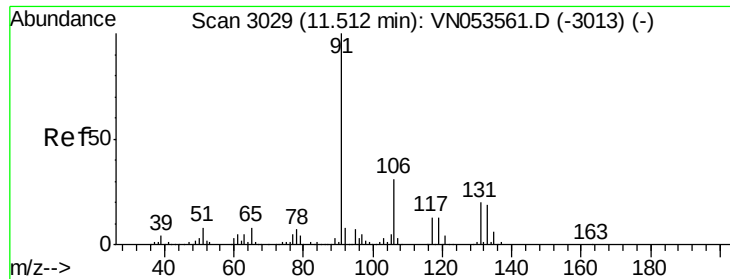
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.252 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion:131 Resp: 141512
Ion Ratio Lower Upper
131 100
133 95.1 48.0 144.0
119 65.1 33.5 100.5





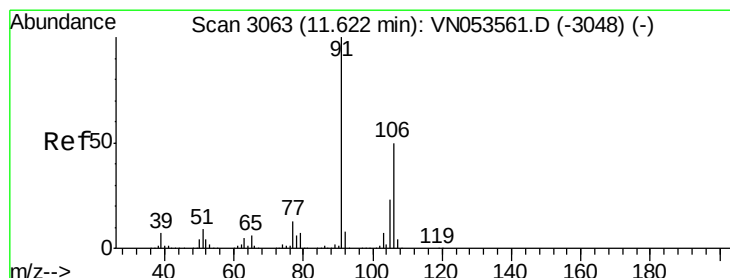
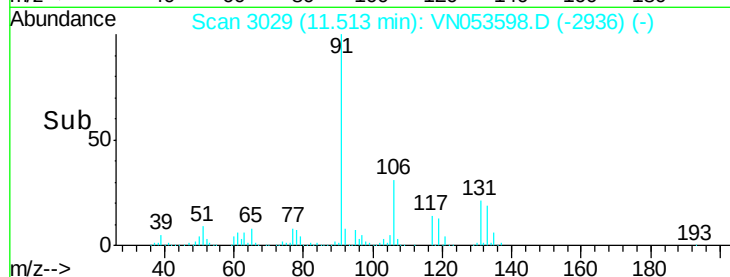
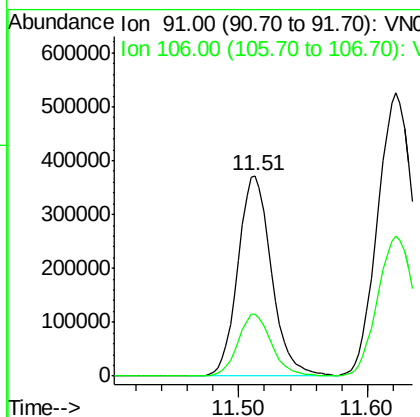
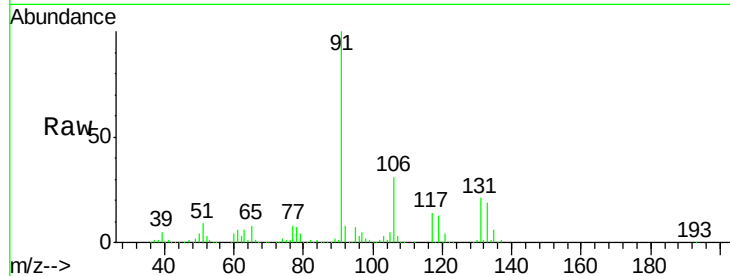
#67
Ethyl Benzene
Concen: 19.484 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion: 91 Resp: 673635
Ion Ratio Lower Upper
91 100
106 31.1 25.0 37.6

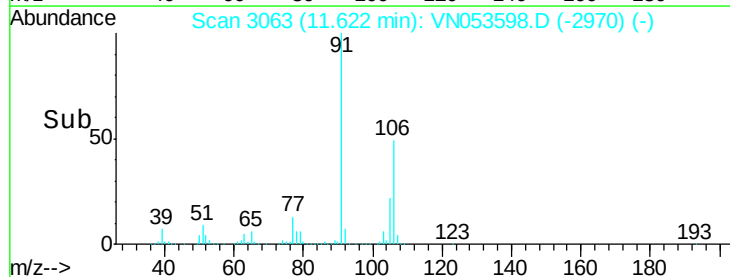
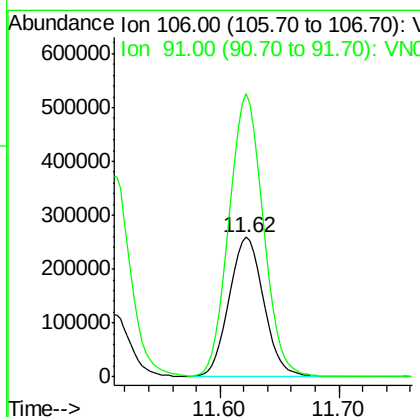
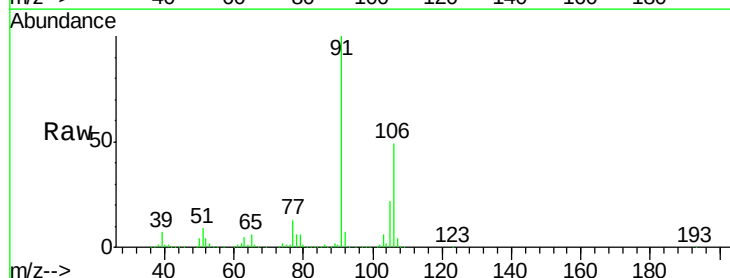
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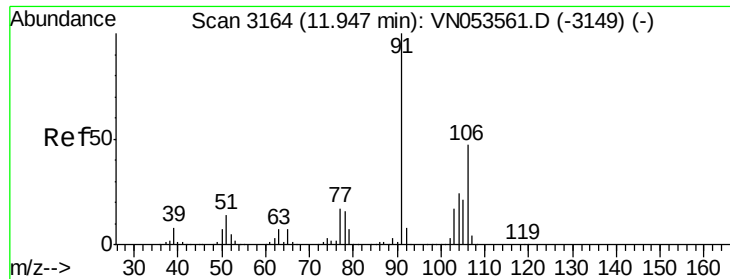
MMDadoda
2/5/2019 9:54:08 AM



#68
m/p-Xylenes
Concen: 39.767 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion: 106 Resp: 524744
Ion Ratio Lower Upper
106 100
91 200.2 161.4 242.2





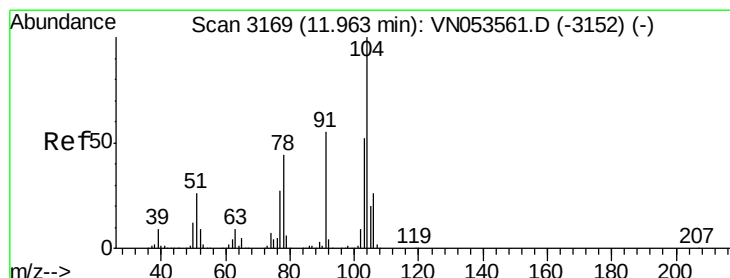
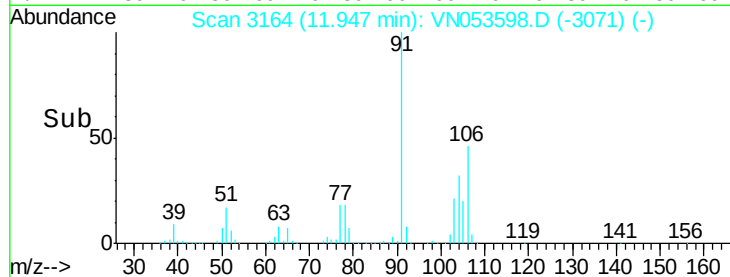
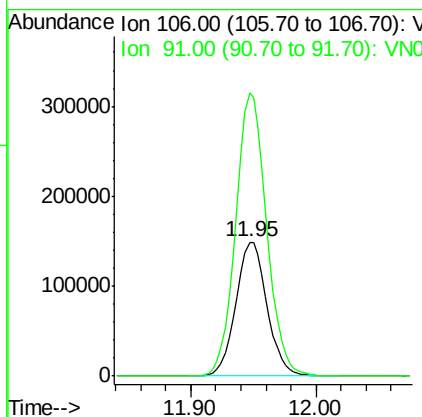
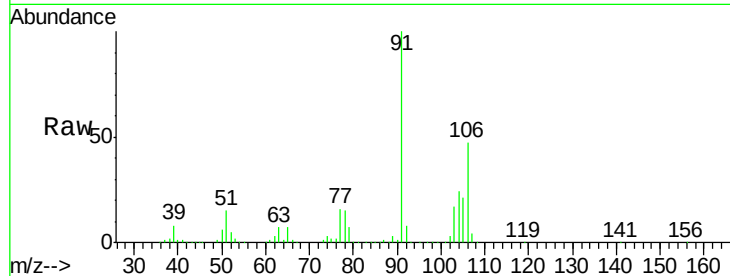
#69
o-Xylene
Concen: 20.141 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion:106 Resp: 256763
Ion Ratio Lower Upper
106 100
91 209.6 106.9 320.8

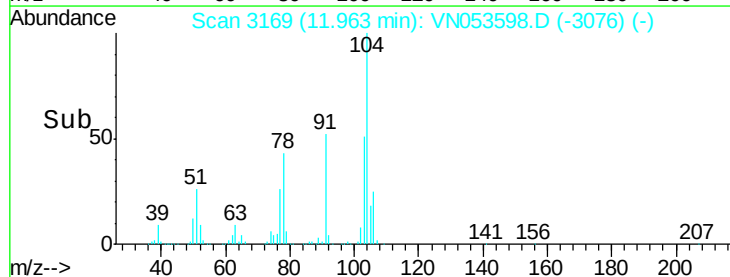
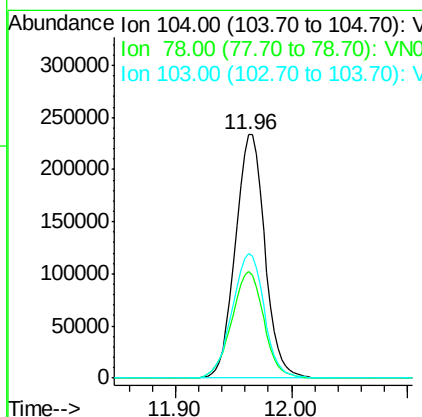
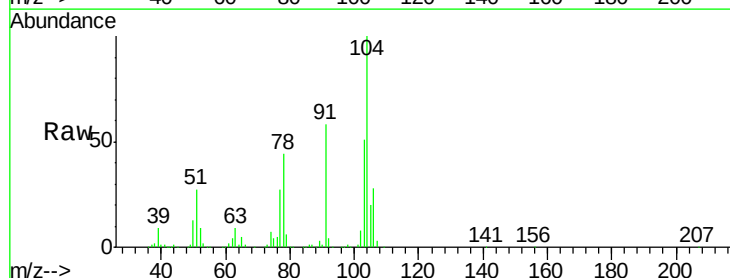
Manual Integrations
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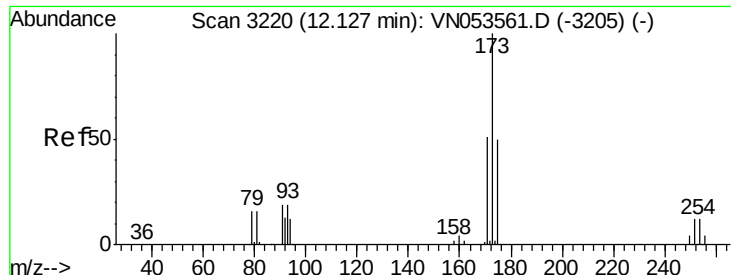
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#70
Styrene
Concen: 19.936 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion:104 Resp: 411919
Ion Ratio Lower Upper
104 100
78 47.7 38.2 57.2
103 55.4 44.4 66.6





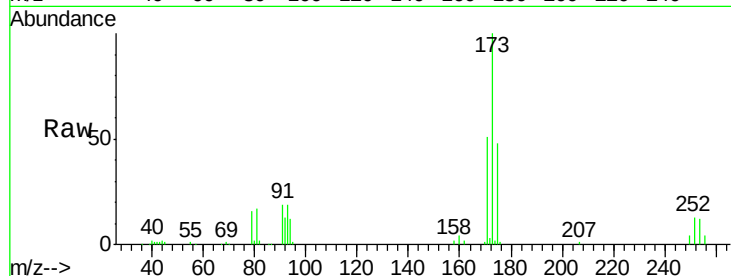
#71
Bromoform
Concen: 18.533 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampled :
VN0204MBSD01

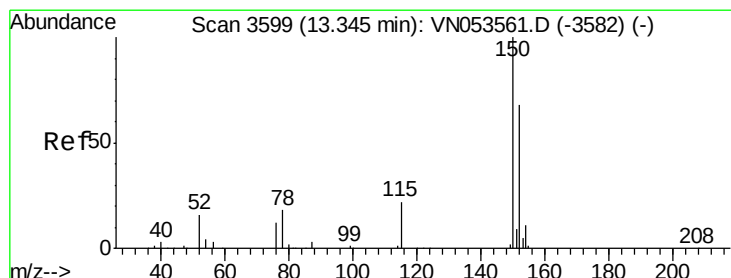
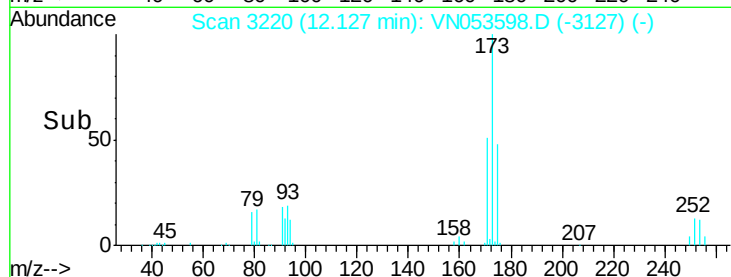
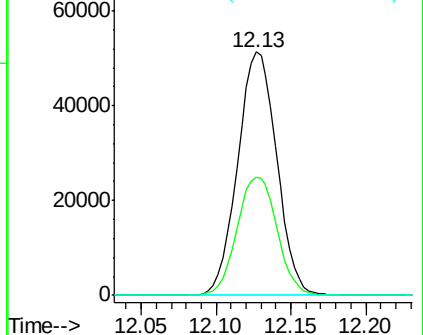
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.6	74.0
254	0.0	0.2	0.2

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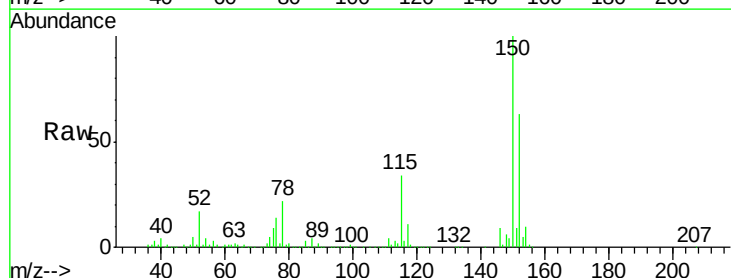


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

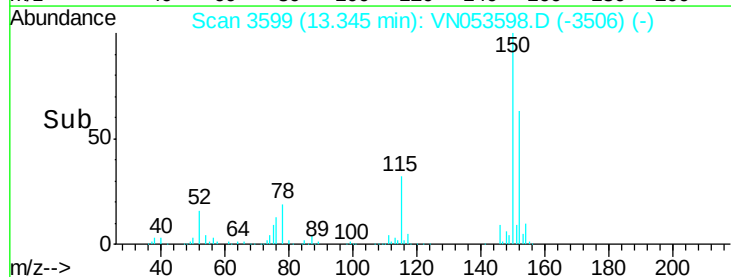
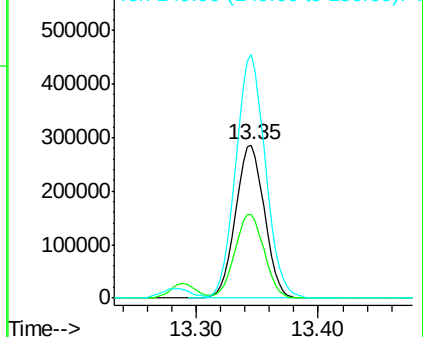


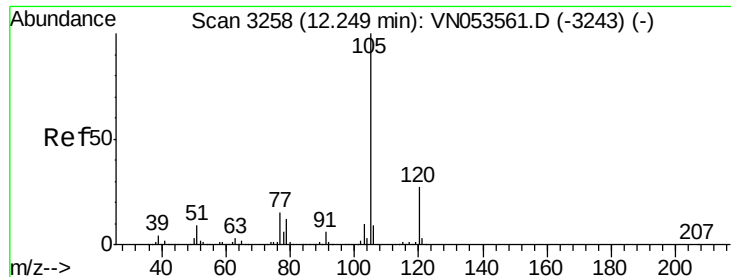
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.8	83.4
150	163.2	0.0	349.0



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





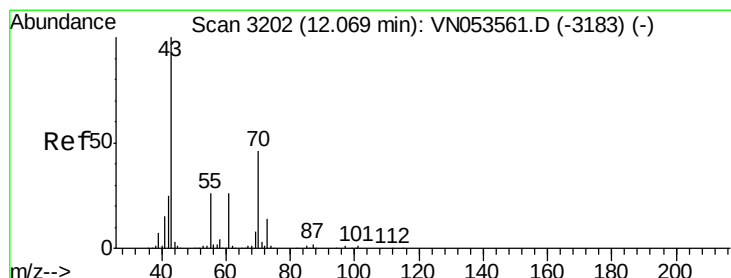
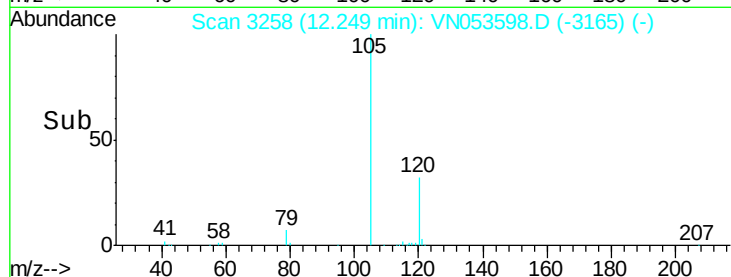
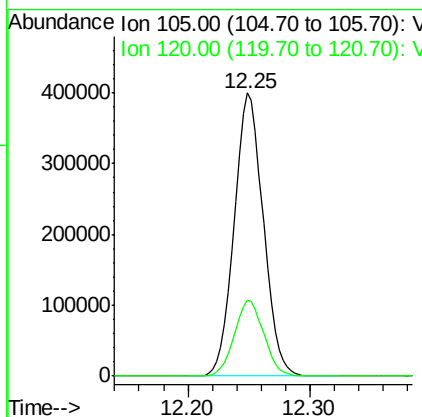
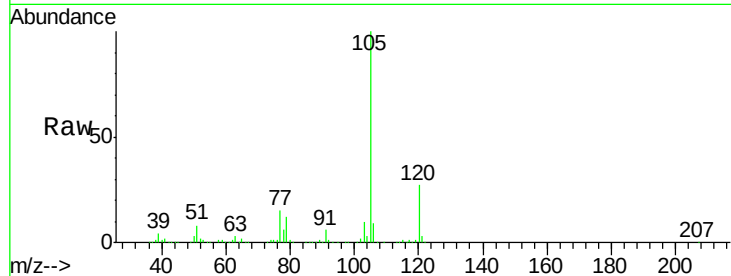
#73
Isopropylbenzene
Concen: 20.086 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.6	40.7

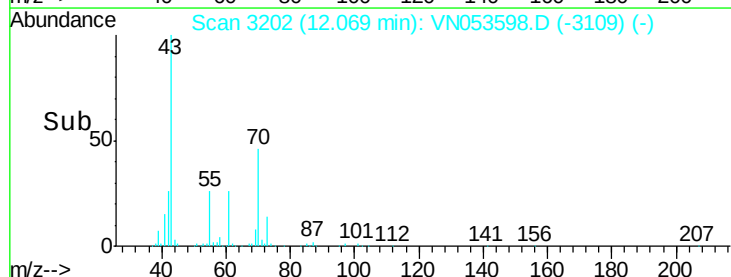
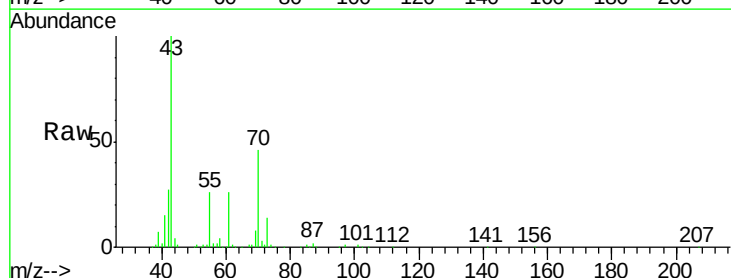
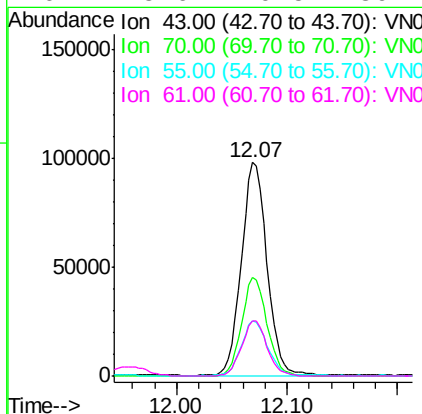
Manual Integrations
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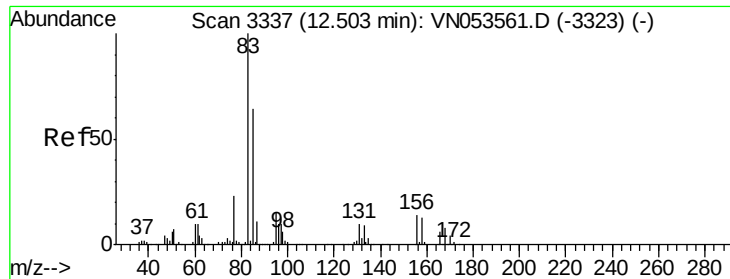
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#74
N-ethyl acetate
Concen: 19.941 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Lower	Upper
43	100		
70	45.5	35.4	53.2
55	26.2	20.9	31.3
61	25.6	20.5	30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 20.065 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

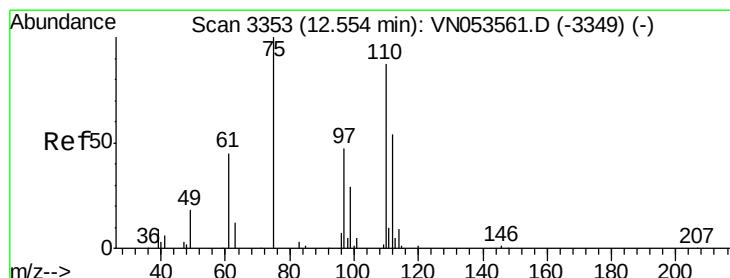
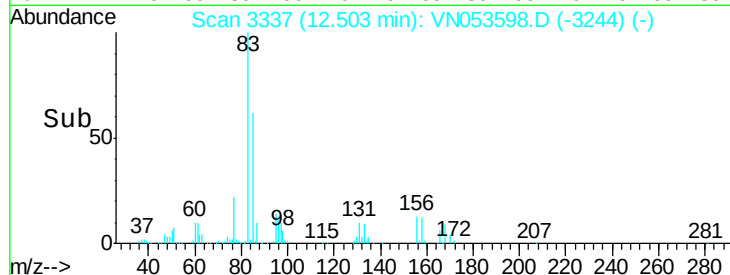
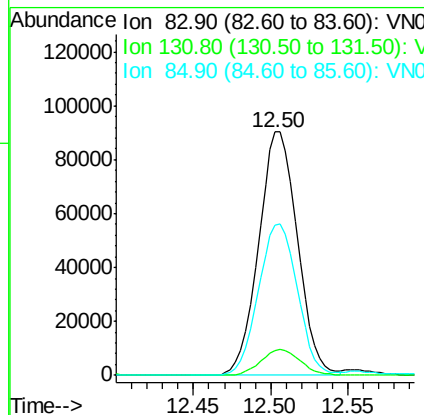
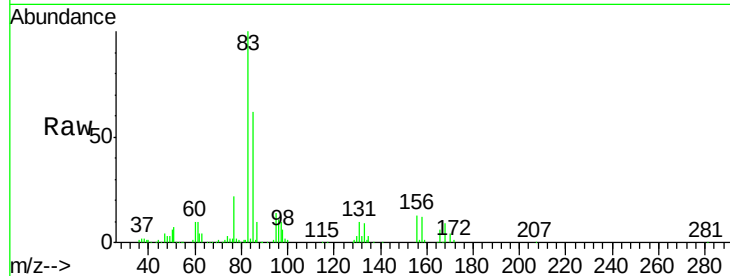
ClientSampleId :

VN0204MBSD01

Tot Ion:	83	Resp:	157736
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.3	15.8
85	62.5	32.1	96.3

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.509 ug/l m

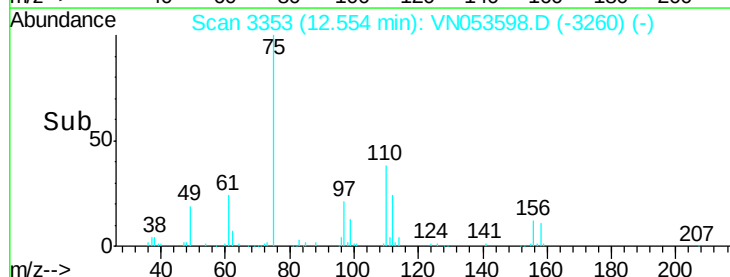
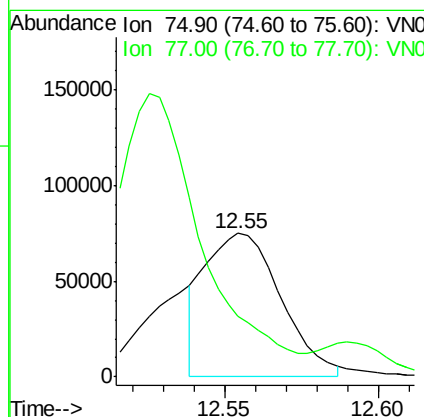
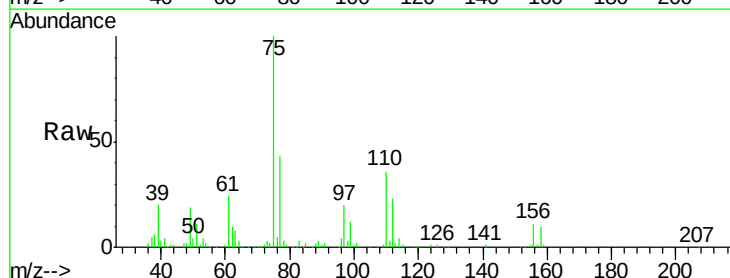
RT: 12.55 min Scan# 3353

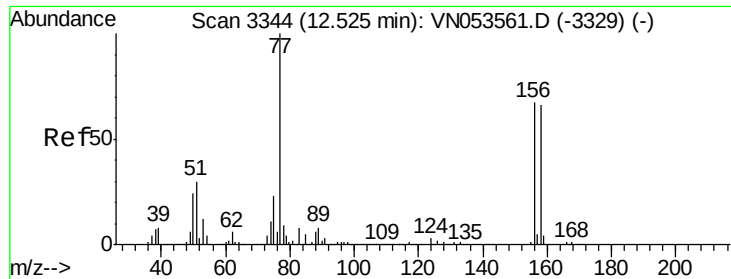
Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Tgt Ion:	75	Resp:	129088
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.305 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

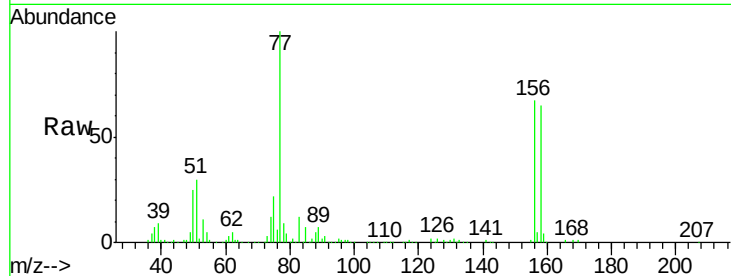
ClientSampleId :

VN0204MBSD01

Tot Ion:	156	Resp:	179755
Ion Ratio	Lower	Upper	
156	100		
77	168.9	87.9	263.8
158	95.4	48.8	146.4

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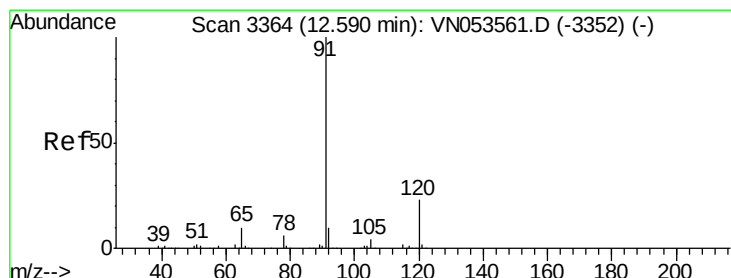
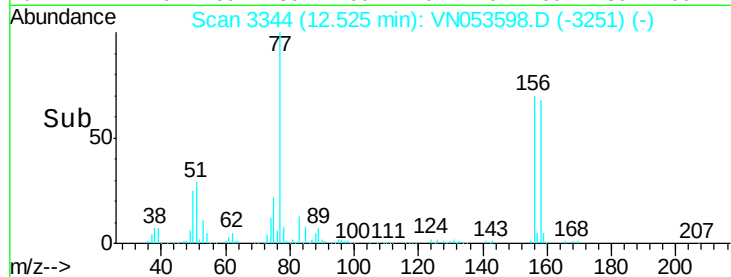
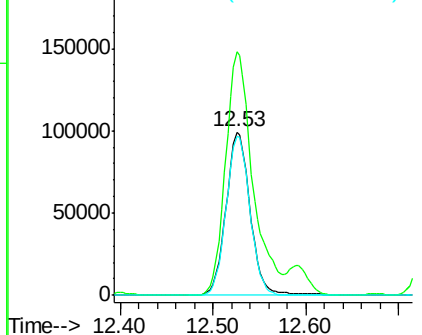
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.897 ug/l

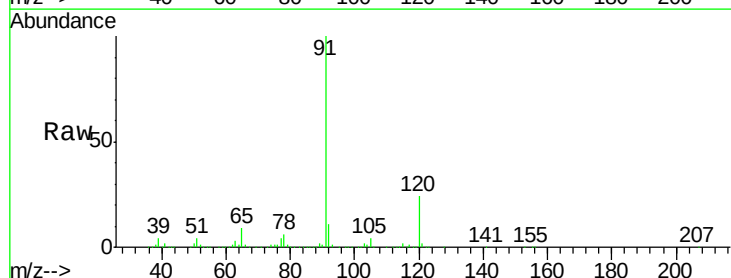
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053598.D

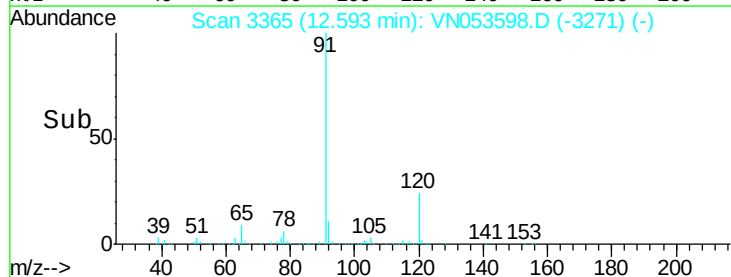
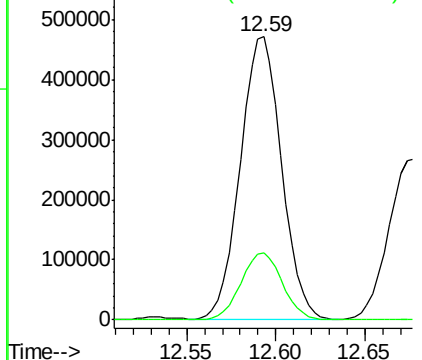
Acq: 4 Feb 2019 15:56

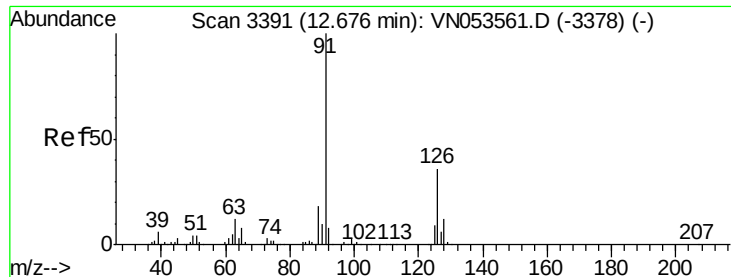
Tgt Ion:	91	Resp:	755521
Ion Ratio	Lower	Upper	
91	100		
120	24.0	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.082 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

ClientSampled :

VN0204MBSD01

Tot Ion: 91 Resp: 452408

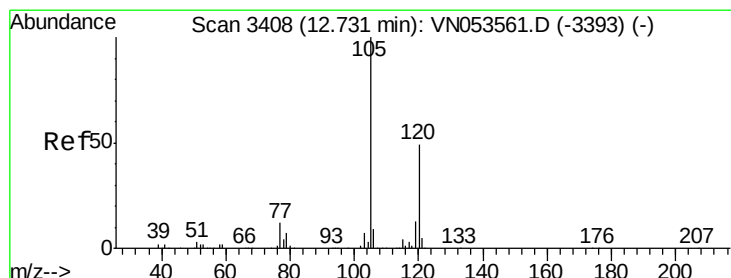
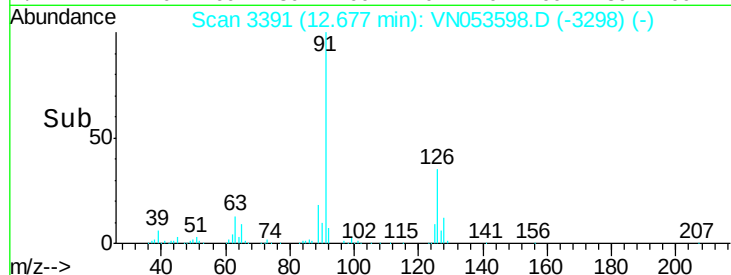
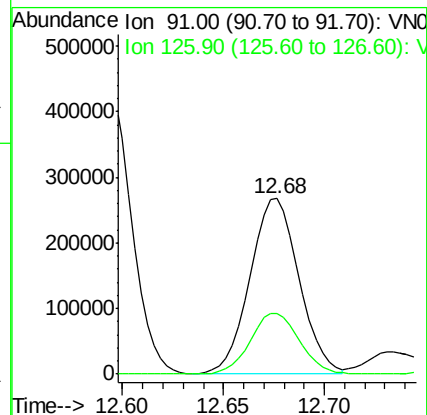
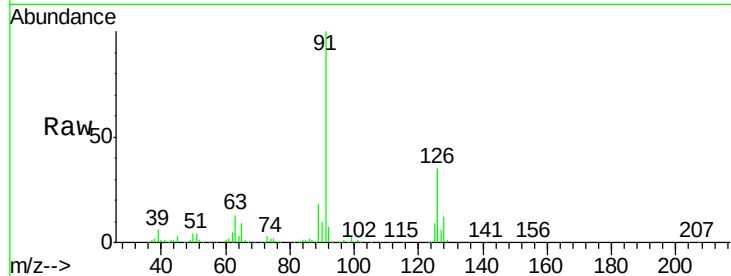
Ion Ratio Lower Upper

91 100

126 35.2 17.9 53.7

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#80

1,3,5-Trimethylbenzene

Concen: 20.647 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053598.D

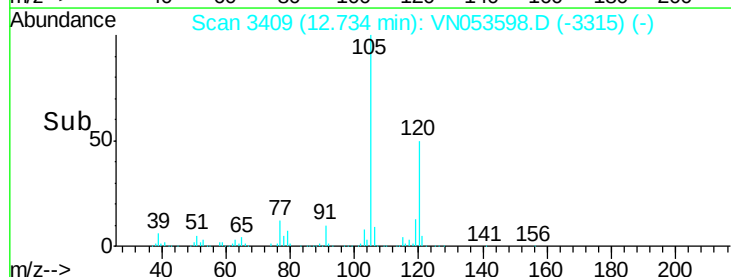
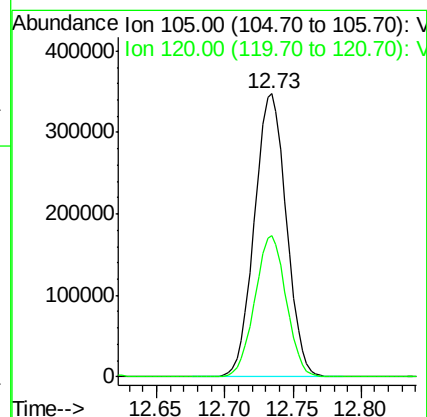
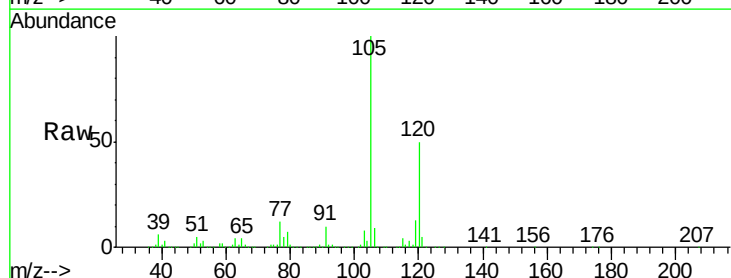
Acq: 4 Feb 2019 15:56

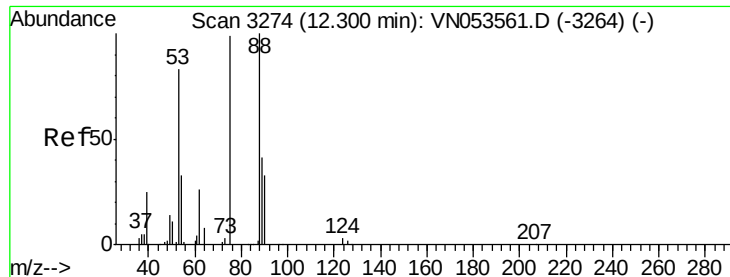
Tgt Ion: 105 Resp: 562389

Ion Ratio Lower Upper

105 100

120 49.2 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 16.886 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBSD01

Tot Ion: 75 Resp: 36040

Ion Ratio Lower Upper

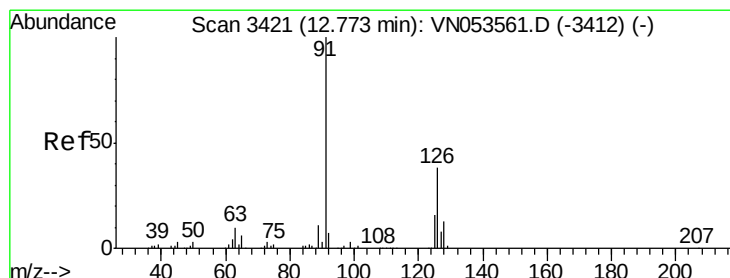
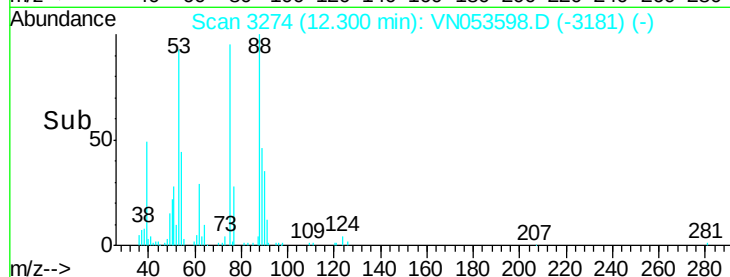
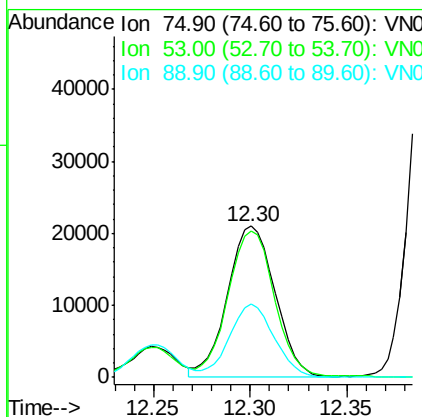
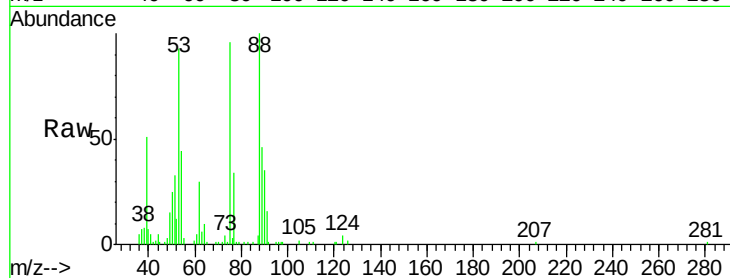
75 100

53 93.2 69.8 104.6

89 45.8 35.6 53.4

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#82

4-Chlorotoluene

Concen: 19.686 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN053598.D

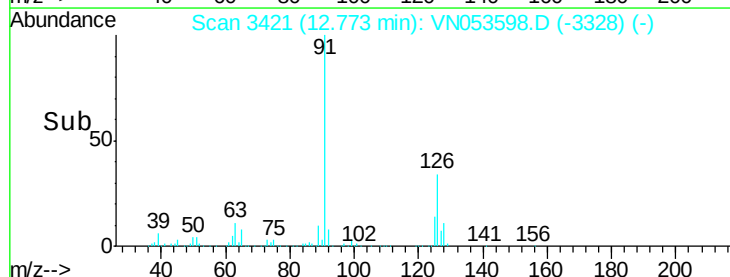
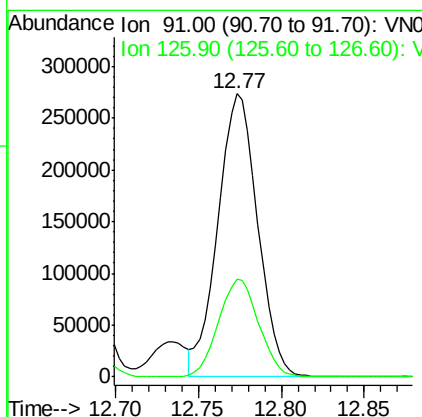
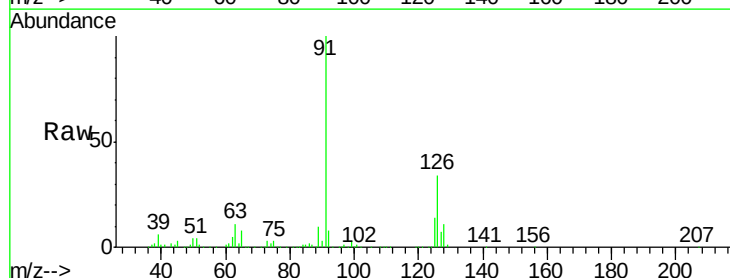
Acq: 4 Feb 2019 15:56

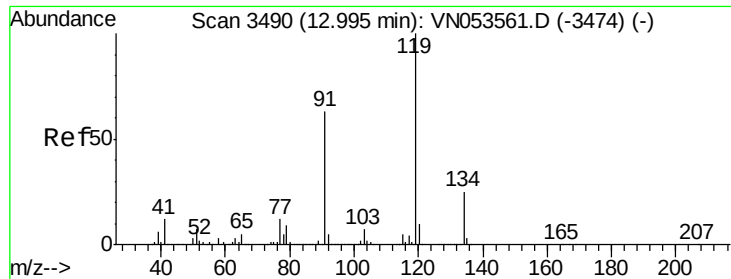
Tgt Ion: 91 Resp: 455075

Ion Ratio Lower Upper

91 100

126 35.3 17.6 52.9





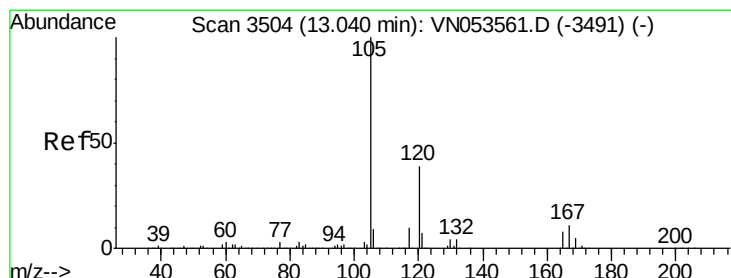
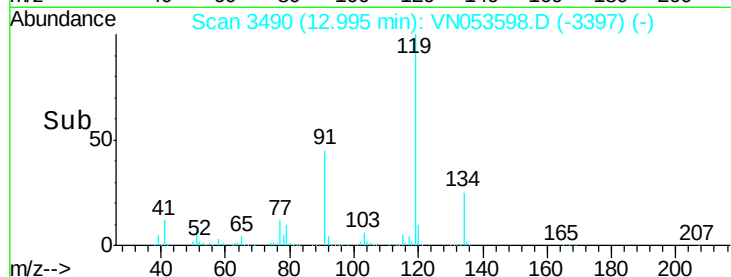
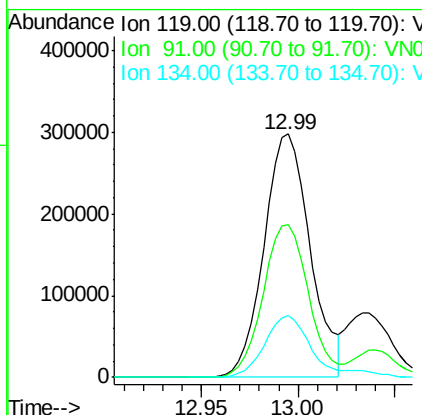
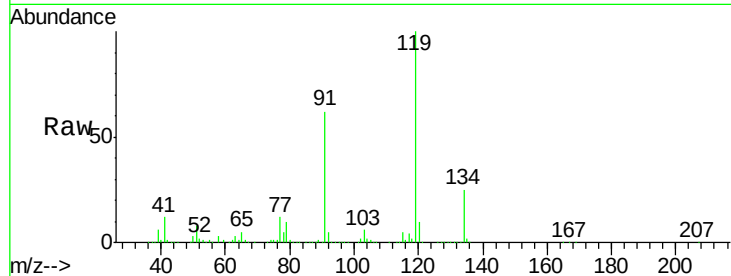
#83
 tert-Butylbenzene
 Concen: 20.619 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	496372		
91	61.7		31.3	93.8
134	26.5		12.9	38.7

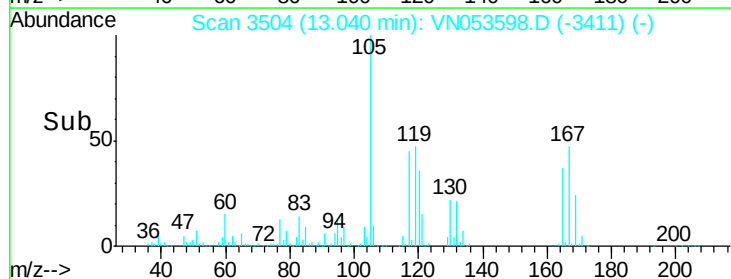
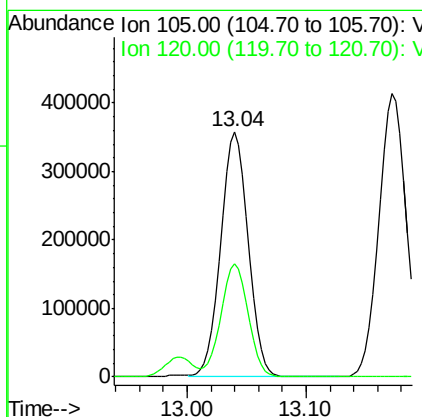
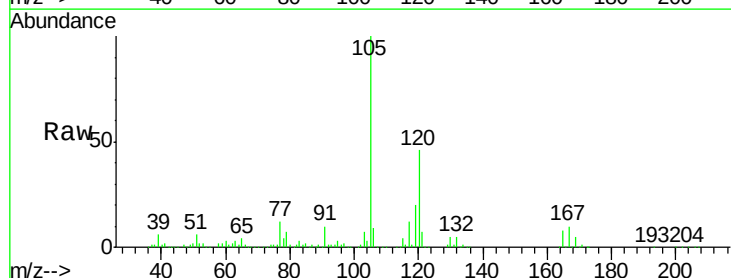
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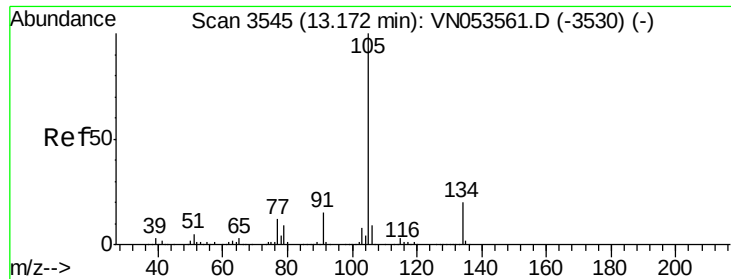
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.571 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	570859		
120	46.0		23.0	69.0





#85

sec-Butylbenzene

Concen: 20.164 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBSD01

Tot Ion:105 Resp: 660568

Ion Ratio Lower Upper

105 100

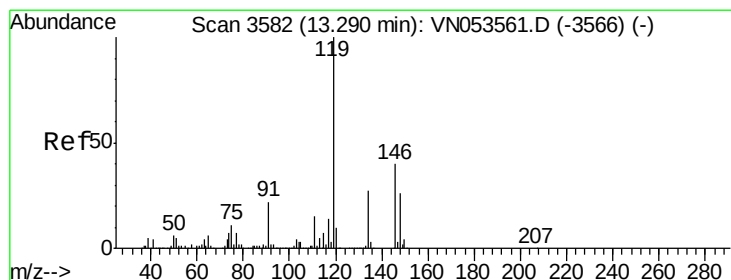
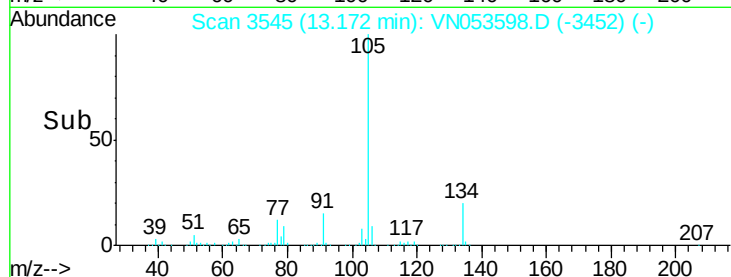
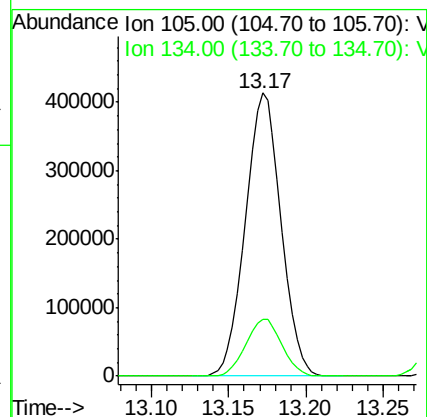
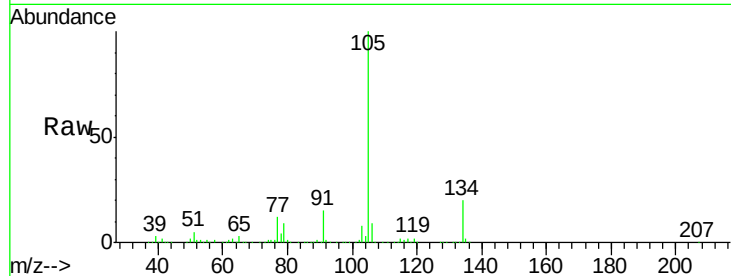
134 20.5 10.2 30.6

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#86

p-Isopropyltoluene

Concen: 19.948 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

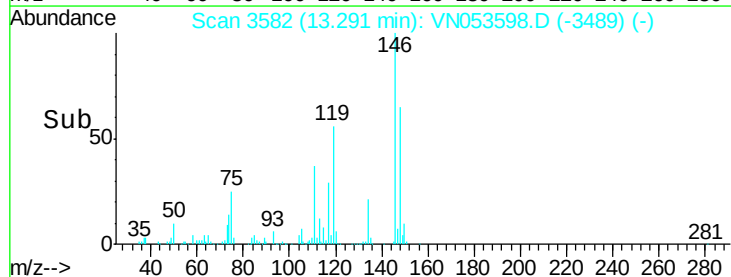
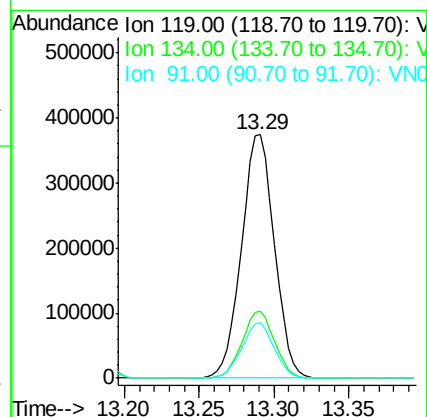
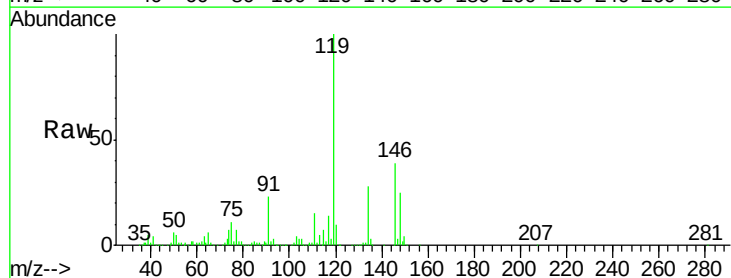
Tgt Ion:119 Resp: 571535

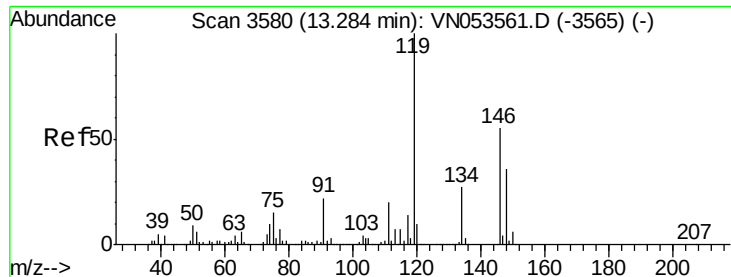
Ion Ratio Lower Upper

119 100

134 27.2 13.5 40.4

91 22.4 11.0 33.0





#87

1,3-Dichlorobenzene

Concen: 19.120 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053598.D

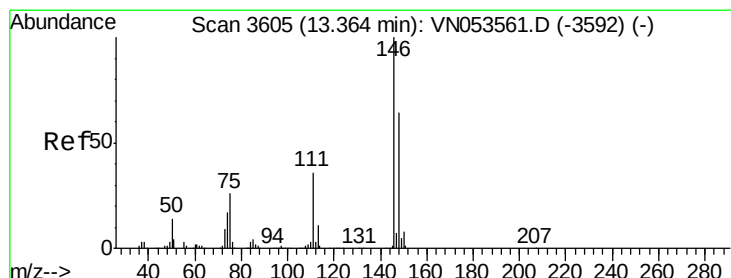
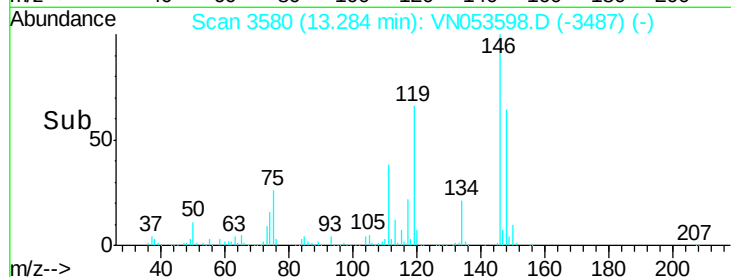
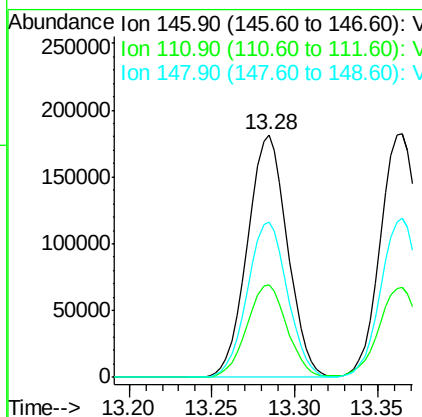
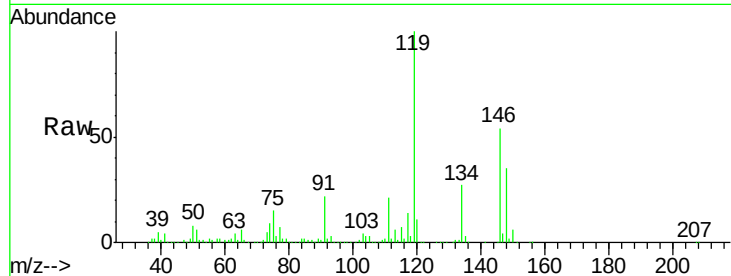
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	304276		
111	38.4	18.8	56.3	
148	64.3	32.0	96.2	

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#88

1,4-Dichlorobenzene

Concen: 19.229 ug/l

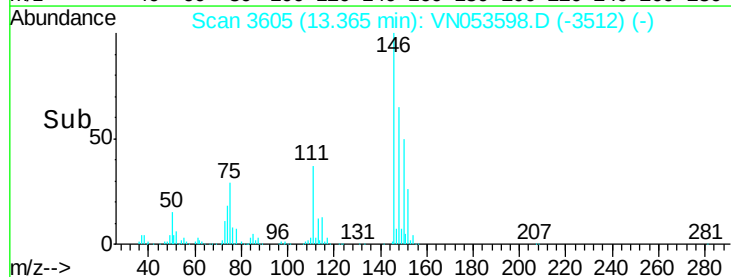
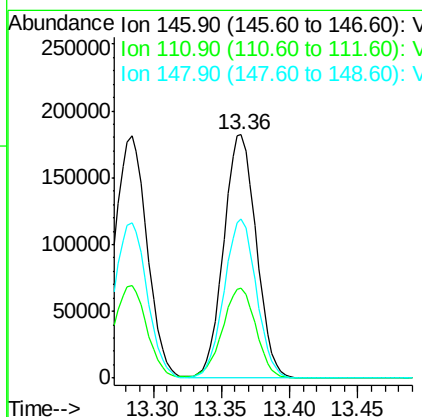
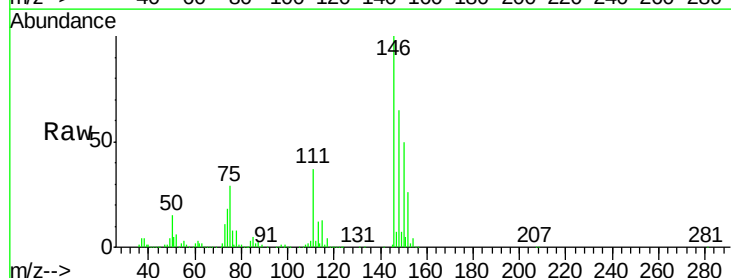
RT: 13.36 min Scan# 3605

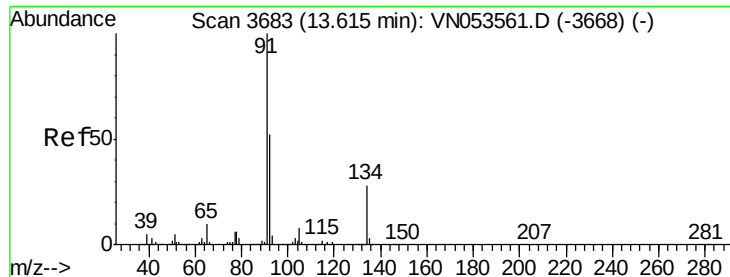
Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	302703		
111	37.9	18.6	55.8	
148	64.7	32.4	97.0	





#89

n-Butylbenzene

Concen: 19.321 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Instrument :

MSVOA_N

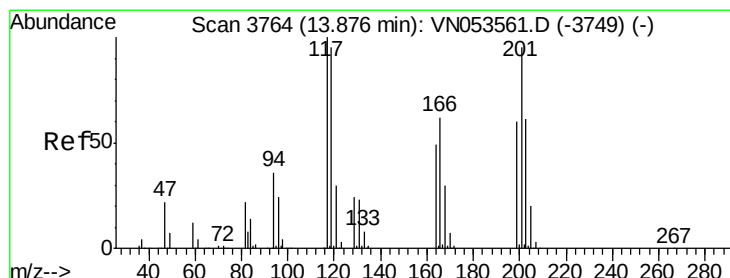
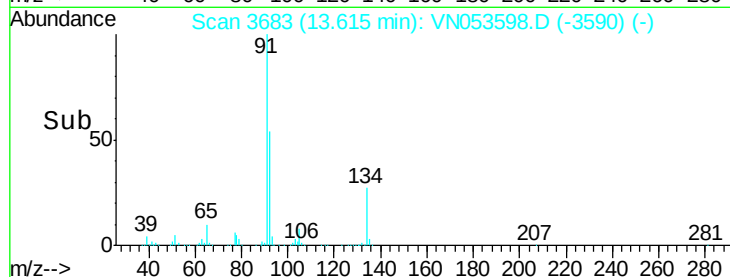
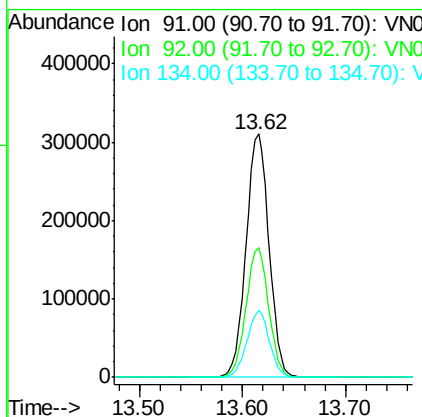
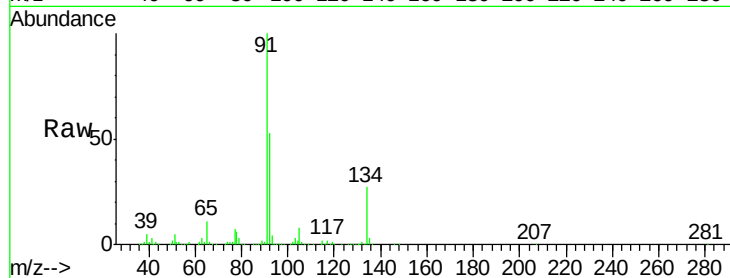
ClientSampleId :

VN0204MBSD01

Tot Ion:	91	Resp:	479165
Ion Ratio	Lower	Upper	
91	100		
92	52.4	26.3	78.8
134	26.8	13.5	40.5

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#90

Hexachloroethane

Concen: 18.983 ug/l

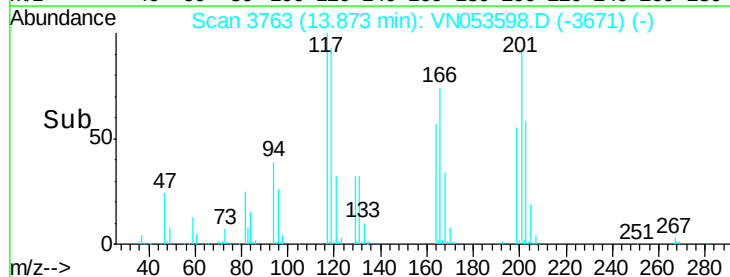
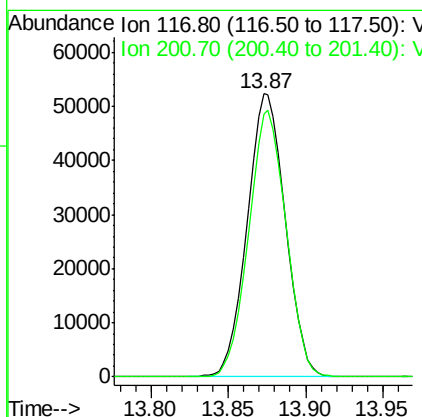
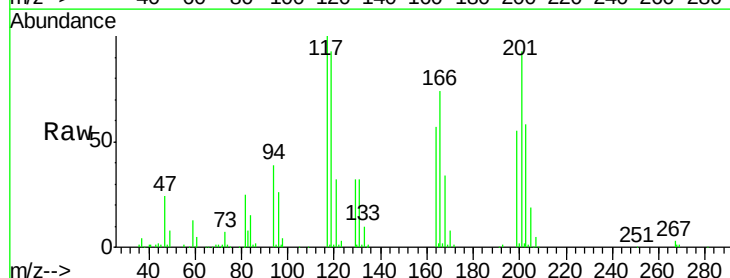
RT: 13.87 min Scan# 3763

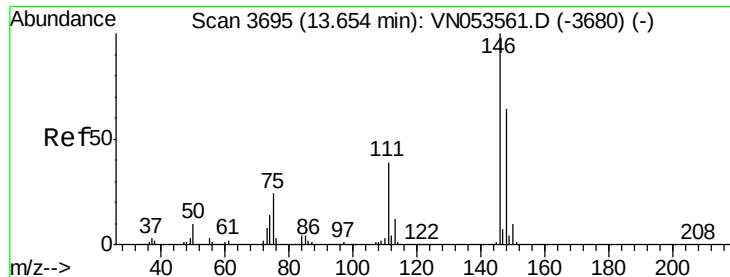
Delta R.T. -0.00 min

Lab File: VN053598.D

Acq: 4 Feb 2019 15:56

Tgt Ion:	117	Resp:	89714
Ion Ratio	Lower	Upper	
117	100		
201	92.3	46.8	140.4





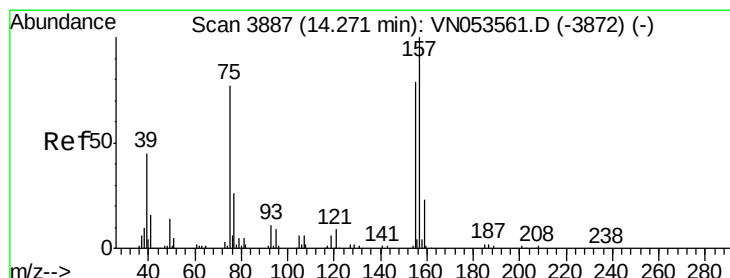
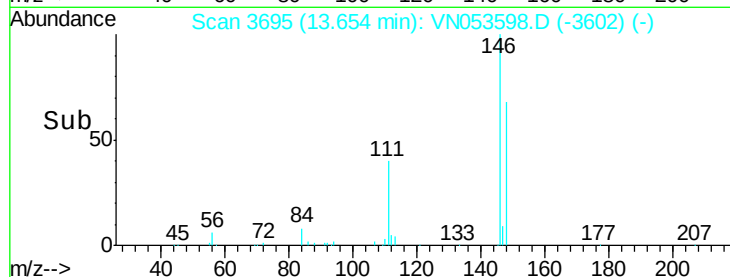
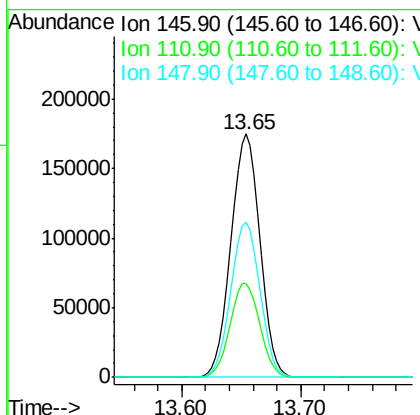
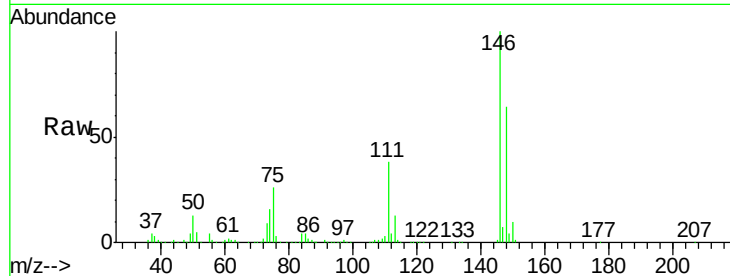
#91
 1,2-Dichlorobenzene
 Concen: 19.406 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.5	58.5
148	64.1	31.9	95.9

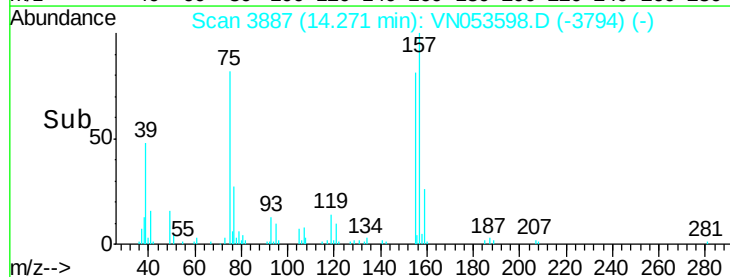
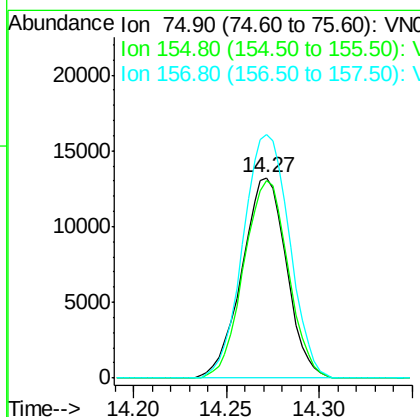
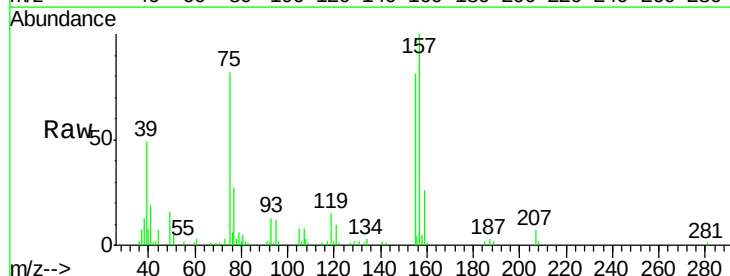
Manual Integrations
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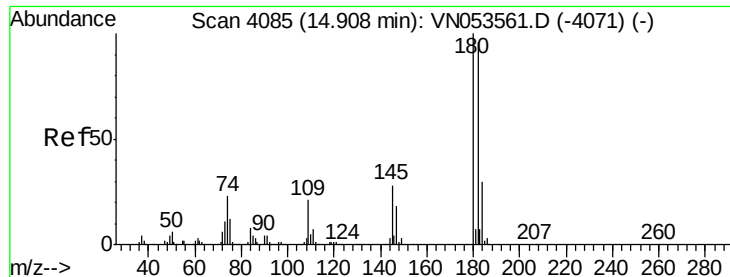
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.692 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.1	48.9	146.7
157	126.6	63.7	191.3





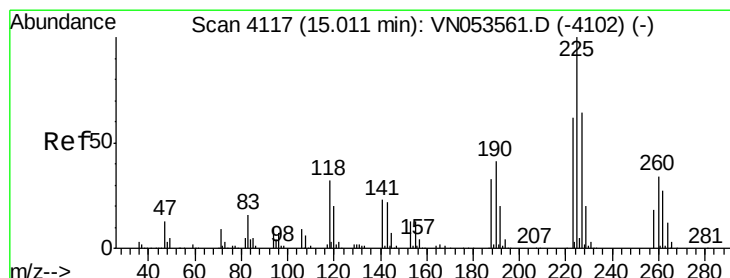
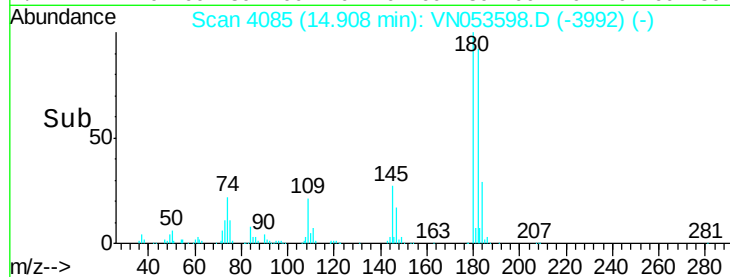
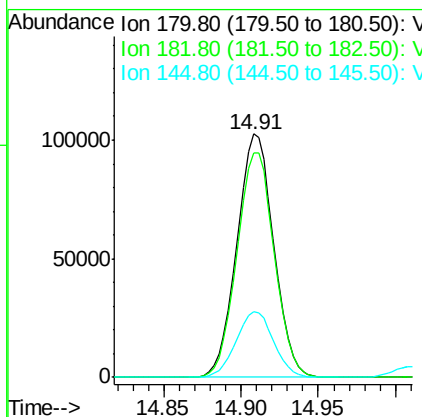
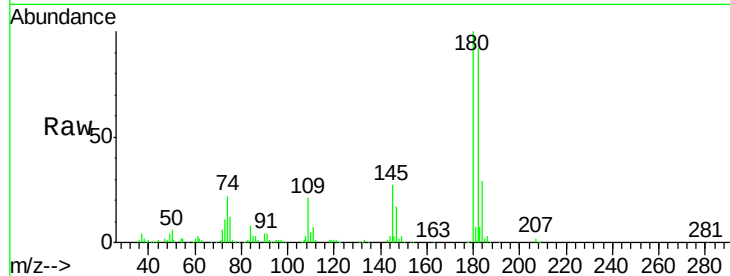
#93
 1,2,4-Trichlorobenzene
 Concen: 19.395 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	169474		
182	93.8	48.1	144.3	
145	27.5	13.9	41.6	

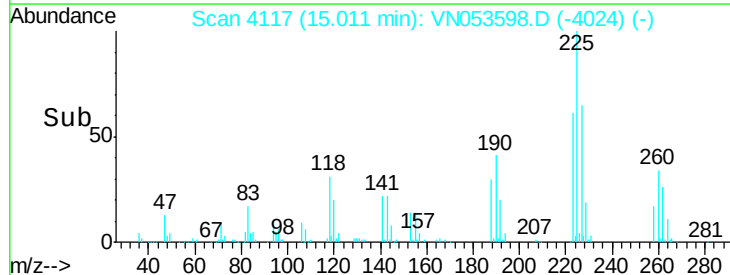
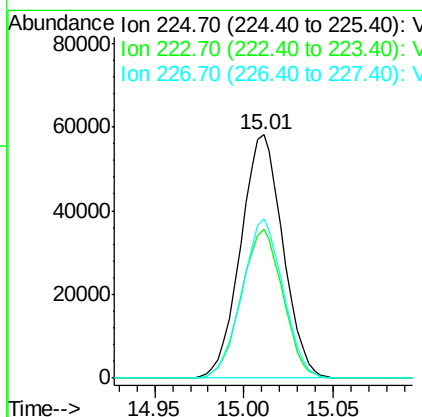
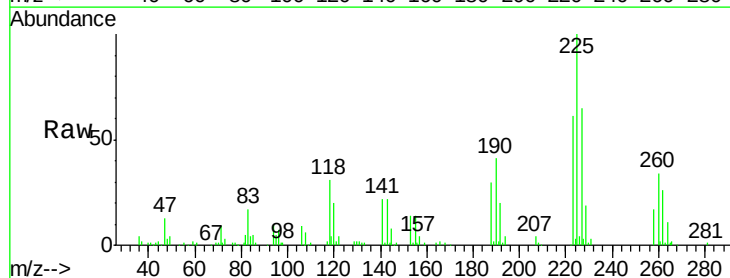
Manual Integrations
 APPROVED

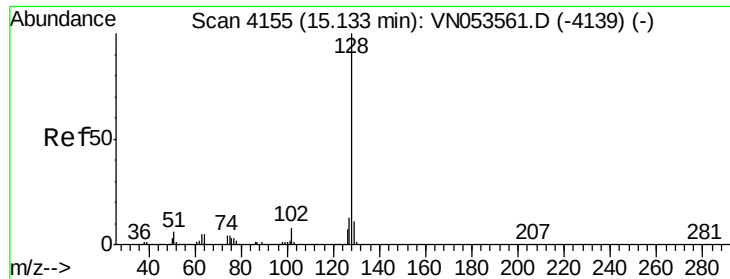
MMDadoda
 2/5/2019 9:54:08 AM



#94
 Hexachlorobutadiene
 Concen: 17.662 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053598.D
 Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	96111		
223	60.3	31.1	93.2	
227	63.7	32.0	96.2	





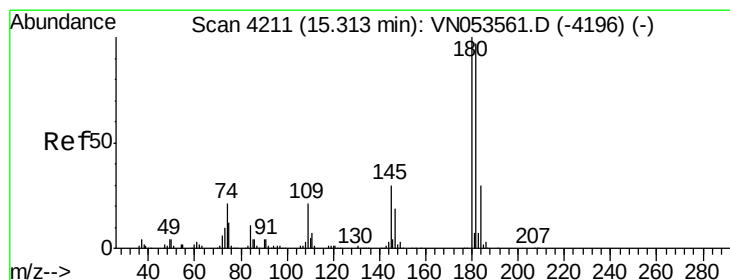
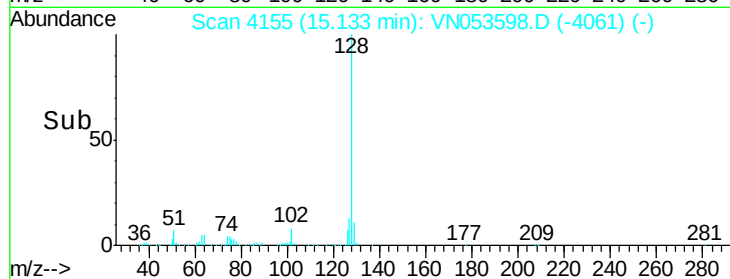
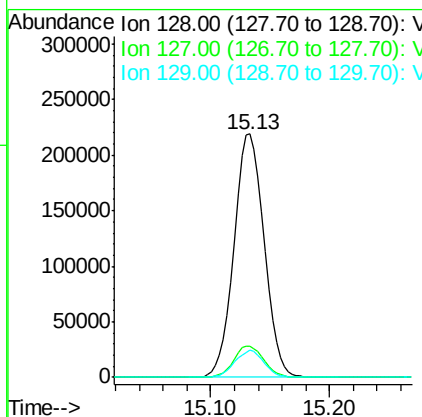
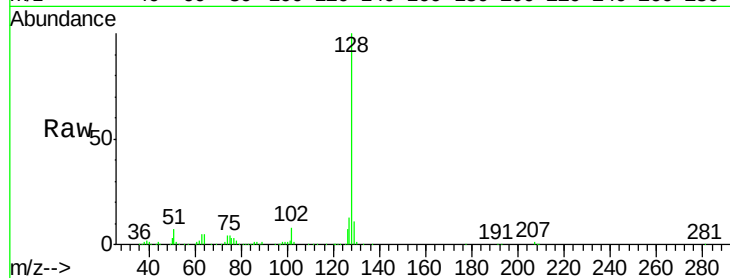
#95
Naphthalene
Concen: 19.860 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	385390		
127	12.8	10.3	15.5	
129	10.8	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
2/5/2019 9:54:08 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.700 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053598.D
Acq: 4 Feb 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	159716		
182	94.1	47.9	143.8	
145	29.9	14.7	44.1	

