

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011419\
 Data File : VN053385.D
 Acq On : 14 Jan 2019 12:24
 Operator : JC/SP
 Sample : VN0114WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0114WBS01

Manual Integrations
 APPROVED

MMDadoda
 1/15/2019 11:14:14 AM

Quant Time: Jan 14 23:23:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 07 09:34:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	843655	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1295124	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1154227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	539580	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	434073	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
35) Dibromofluoromethane	7.59	113	376101	51.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.02%	
50) Toluene-d8	10.09	98	1559616	49.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.08%	
62) 4-Bromofluorobenzene	12.40	95	545184	48.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	143664	19.316	ug/l	98
3) Chloromethane	2.06	50	194996	18.774	ug/l	99
4) Vinyl Chloride	2.19	62	192489	19.417	ug/l	99
5) Bromomethane	2.55	94	122767	18.951	ug/l	100
6) Chloroethane	2.70	64	115443	19.293	ug/l	99
7) Trichlorofluoromethane	3.02	101	251682	19.600	ug/l	98
8) Diethyl Ether	3.41	74	101523	20.172	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	161587	19.855	ug/l	100
10) Methyl Iodide	3.96	142	230486	20.205	ug/l	100
11) Tert butyl alcohol	4.78	59	44409	84.120	ug/l	97
12) 1,1-Dichloroethene	3.74	96	154817	19.667	ug/l	98
13) Acrolein	3.61	56	67905	102.301	ug/l	99
14) Allyl chloride	4.33	41	255769	20.159	ug/l	97
15) Acrylonitrile	4.99	53	306127	97.137	ug/l	99
16) Acetone	3.82	43	197316	91.995	ug/l	98
17) Carbon Disulfide	4.06	76	425849	17.547	ug/l	100
18) Methyl Acetate	4.32	43	151752	19.103	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	448927	20.320	ug/l	98
20) Methylene Chloride	4.55	84	183642	19.481	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	164478	19.460	ug/l	100
22) Diisopropyl ether	5.95	45	561503	20.543	ug/l	96
23) Vinyl Acetate	5.90	43	1730473	100.621	ug/l	100
24) 1,1-Dichloroethane	5.85	63	321729	20.409	ug/l	99
25) 2-Butanone	6.83	43	335195	93.086	ug/l	98
26) 2,2-Dichloropropane	6.83	77	234084	20.314	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	197583	20.470	ug/l	100
28) Bromochloromethane	7.20	49	139634	20.786	ug/l	99
29) Tetrahydrofuran	7.21	42	224397	94.432	ug/l	98
30) Chloroform	7.37	83	316655	20.408	ug/l	99
31) Cyclohexane	7.65	56	296172	19.653	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	261675	20.238	ug/l	100
36) 1,1-Dichloropropene	7.79	75	237832	19.670	ug/l	100
37) Ethyl Acetate	6.93	43	152971	19.424	ug/l	99
38) Carbon Tetrachloride	7.77	117	225277	20.186	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	285955	20.415	ug/l	100
40) Benzene	8.04	78	742512	20.104	ug/l	100
41) Methacrylonitrile	7.17	41	79879	16.337	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	222771	20.335	ug/l	100
43) Isopropyl Acetate	8.16	43	281956	18.199	ug/l	100
44) Trichloroethene	8.83	130	203704	20.087	ug/l	100
45) 1,2-Dichloropropane	9.12	63	199444	20.590	ug/l	98
46) Dibromomethane	9.21	93	113567	20.108	ug/l	99
47) Bromodichloromethane	9.40	83	234739	19.944	ug/l	99
48) Methyl methacrylate	9.20	41	135009	19.181	ug/l	99
49) 1,4-Dioxane	9.20	88	22204	296.085	ug/l	92
51) 4-Methyl-2-Pentanone	9.99	43	763707	98.022	ug/l	100
52) Toluene	10.16	92	452064	19.951	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	238639	19.820	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	284072	20.417	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	164915	19.795	ug/l	98
56) Ethyl methacrylate	10.43	69	212607	19.637	ug/l	99
57) 1,3-Dichloropropane	10.71	76	283782	20.368	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	570758	97.513	ug/l	99
59) 2-Hexanone	10.75	43	508561	95.268	ug/l	99
60) Dibromochloromethane	10.90	129	176838	19.679	ug/l	98
61) 1,2-Dibromoethane	11.00	107	161734	19.672	ug/l	99
64) Tetrachloroethene	10.63	164	221290	20.370	ug/l	99
65) Chlorobenzene	11.43	112	505749	20.170	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	176943	20.161	ug/l	100
67) Ethyl Benzene	11.51	91	858282	20.144	ug/l	100
68) m/p-Xylenes	11.62	106	654120	40.828	ug/l	100
69) o-Xylene	11.95	106	320849	20.456	ug/l	100
70) Styrene	11.96	104	526730	20.634	ug/l	99
71) Bromoform	12.13	173	121073	19.531	ug/l #	98
73) Isopropylbenzene	12.25	105	849387	21.143	ug/l	100
74) N-amyl acetate	12.07	43	239540	19.968	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	188000	20.344	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	181289m	23.035	ug/l	
77) Bromobenzene	12.53	156	222828	20.782	ug/l	99
78) n-propylbenzene	12.59	91	969612	21.337	ug/l	100
79) 2-Chlorotoluene	12.68	91	569719	20.720	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	696812	21.533	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	52932	19.788	ug/l	96
82) 4-Chlorotoluene	12.77	91	584380	20.727	ug/l	100
83) tert-Butylbenzene	12.99	119	614570	21.646	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	701029	21.265	ug/l	99
85) sec-Butylbenzene	13.17	105	837596	22.370	ug/l	100
86) p-Isopropyltoluene	13.29	119	712613	21.982	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	385630	20.424	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	373578	19.945	ug/l	100
89) n-Butylbenzene	13.62	91	582730	21.440	ug/l	100
90) Hexachloroethane	13.88	117	104841	20.177	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	355241	20.086	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22343	19.933	ug/l	95

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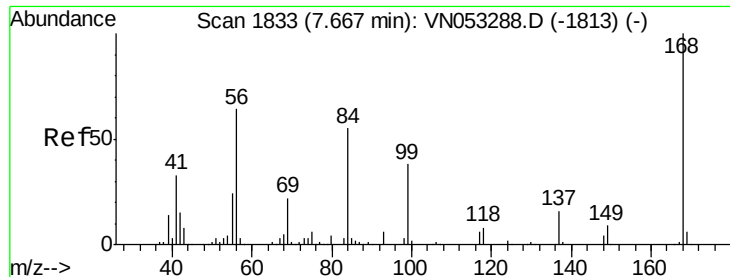
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	132915	23.901	ug/l	98
94) Hexachlorobutadiene	15.01	225	112636	24.763	ug/l	99
95) Naphthalene	15.13	128	228486	24.085	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	94314	25.904	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

VN0114WBS01

Tot Ion:168 Resp: 843655

Ion Ratio Lower Upper

168 100

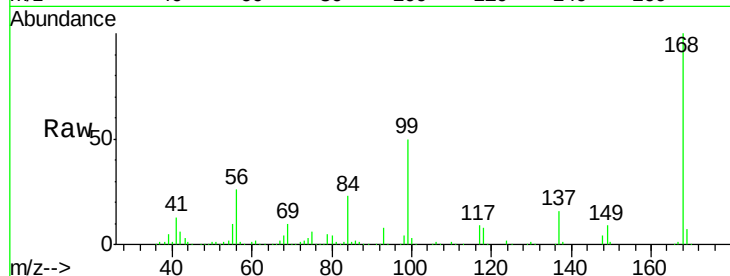
99 49.5 39.1 58.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

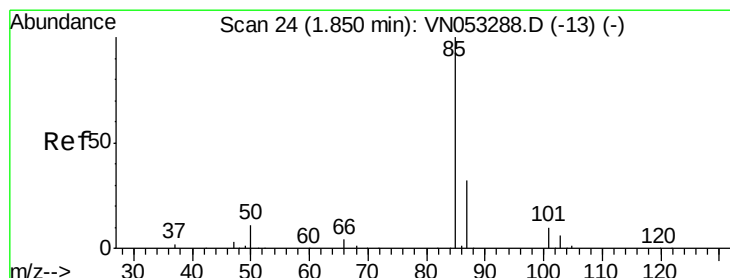
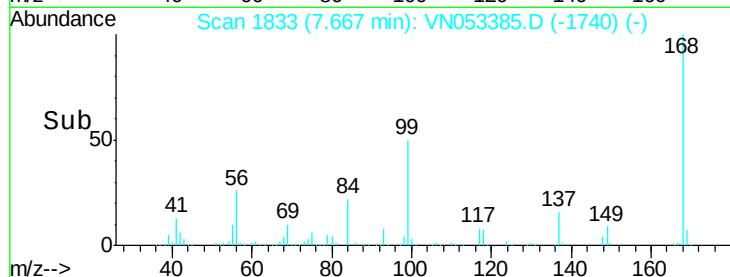
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.316 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053385.D

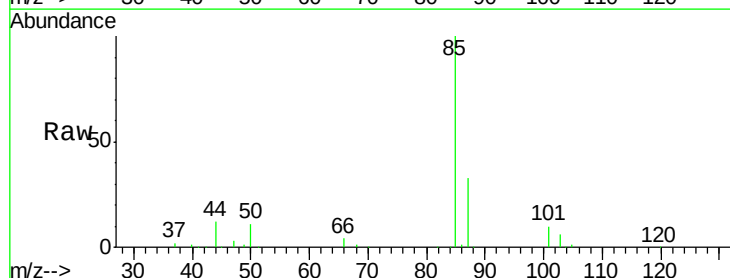
Acq: 14 Jan 2019 12:24

Tgt Ion: 85 Resp: 143664

Ion Ratio Lower Upper

85 100

87 32.8 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

120000

100000

80000

60000

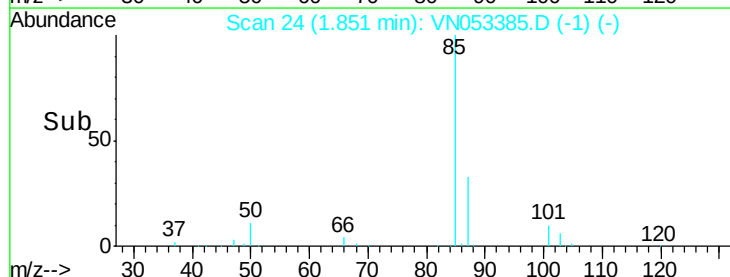
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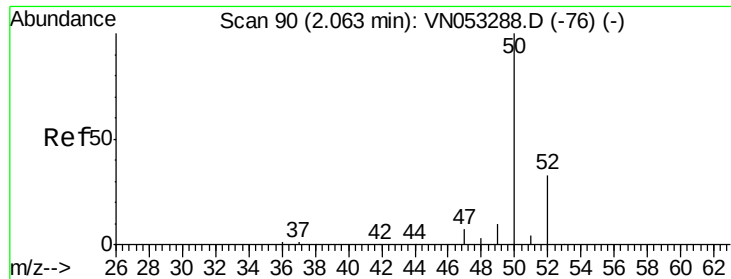
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.774 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

VN0114WBS01

Tot Ion: 50 Resp: 194996

Ion Ratio Lower Upper

50 100

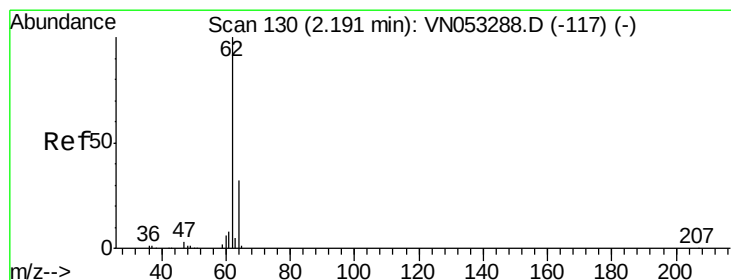
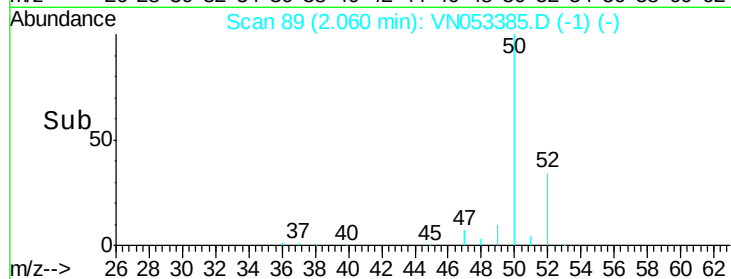
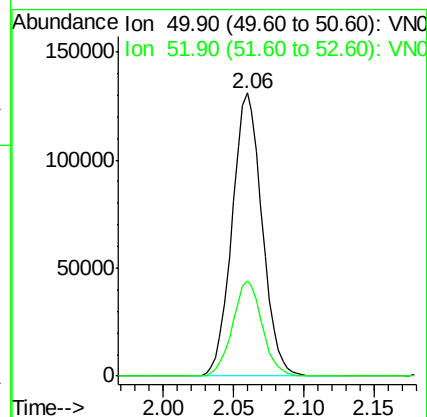
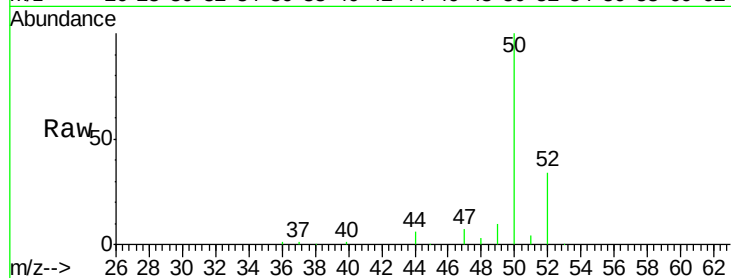
52 33.8 26.6 40.0

Manual Integrations

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1/15/2019 11:14:14 AM



#4

Vinyl Chloride

Concen: 19.417 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN053385.D

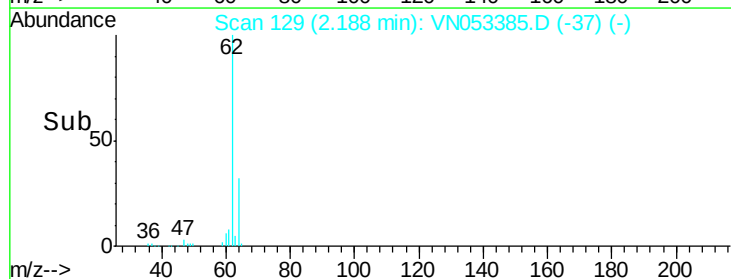
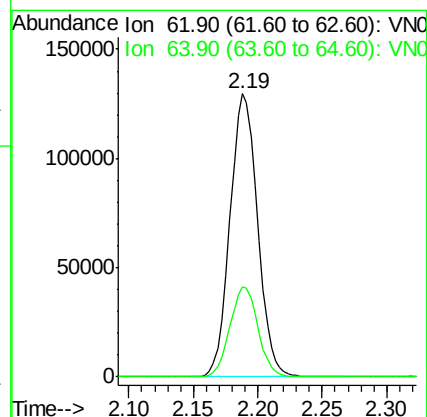
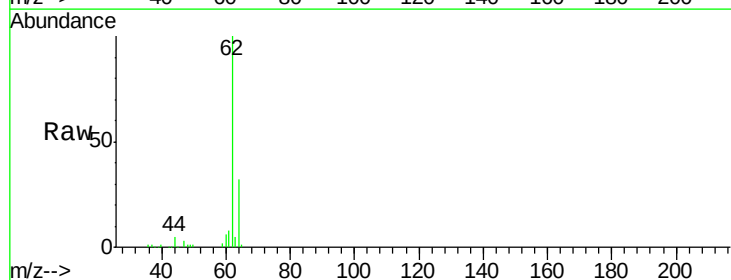
Acq: 14 Jan 2019 12:24

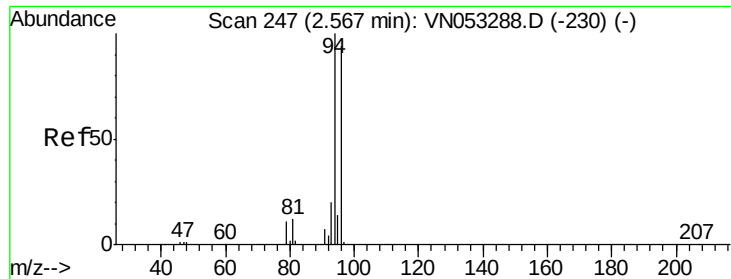
Tgt Ion: 62 Resp: 192489

Ion Ratio Lower Upper

62 100

64 31.7 25.6 38.4





#5

Bromomethane

Concen: 18.951 ug/l

RT: 2.55 min Scan# 241

Delta R.T. -0.02 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

VN0114WBS01

Tot Ion: 94 Resp: 122767

Ion Ratio Lower Upper

94 100

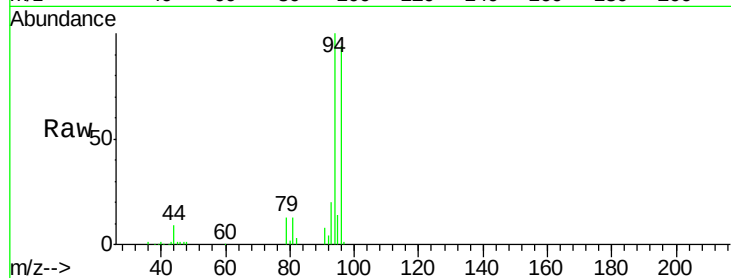
96 93.6 74.9 112.3

Manual Integrations

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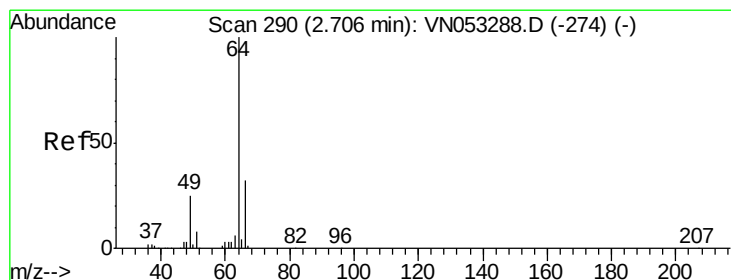
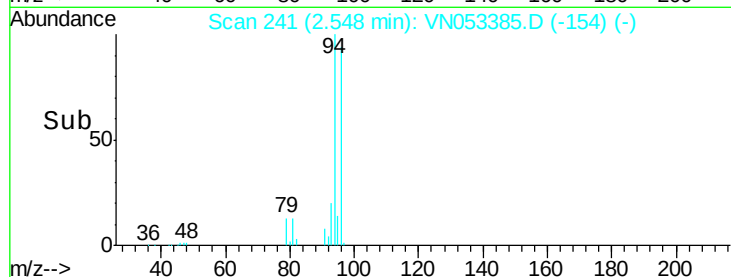
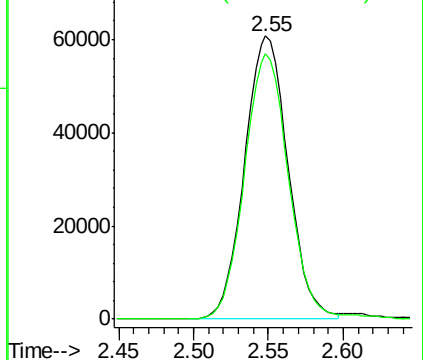
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1/15/2019 11:14:14 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.293 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.01 min

Lab File: VN053385.D

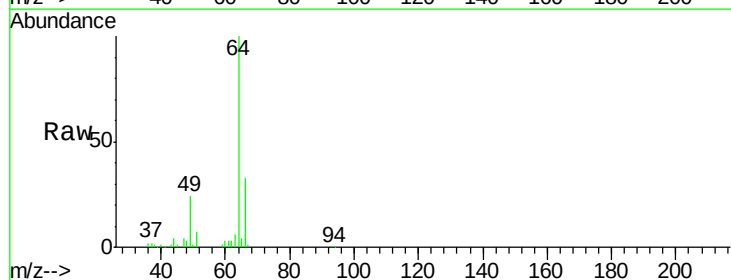
Acq: 14 Jan 2019 12:24

Tgt Ion: 64 Resp: 115443

Ion Ratio Lower Upper

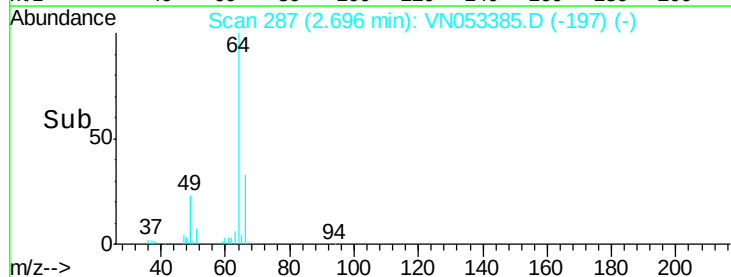
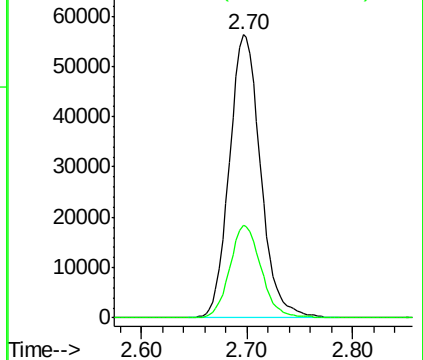
64 100

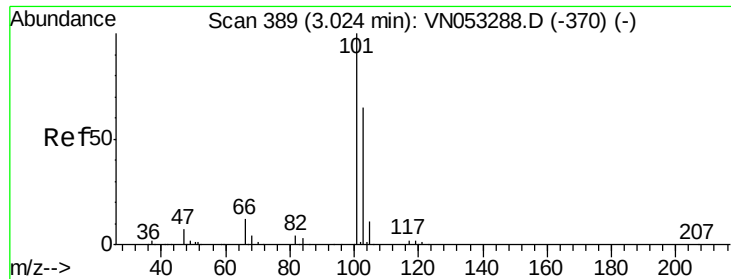
66 32.8 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

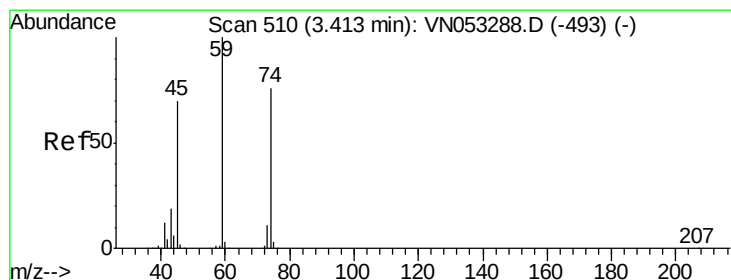
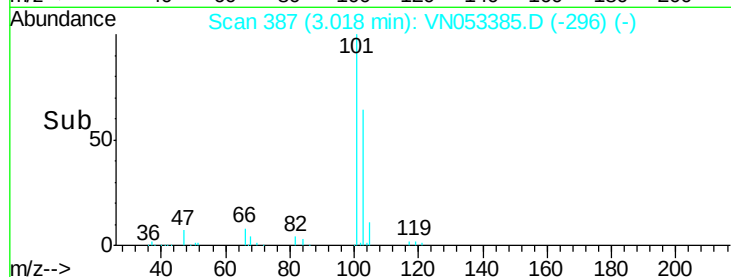
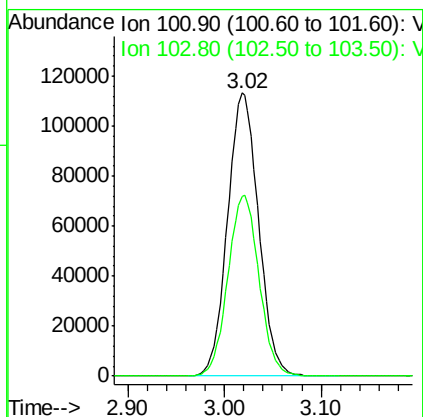
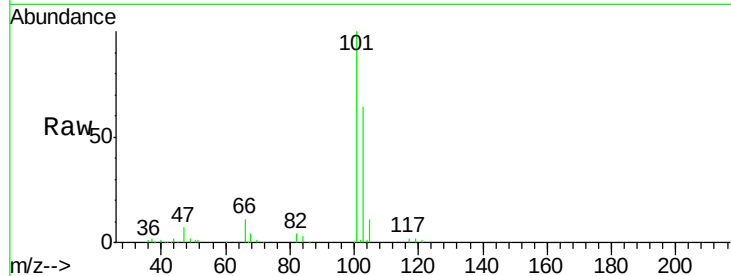
Trichlorofluoromethane
 Concen: 19.600 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. -0.01 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
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 ClientSampleId :
 VN0114WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.1	78.1

Manual Integrations
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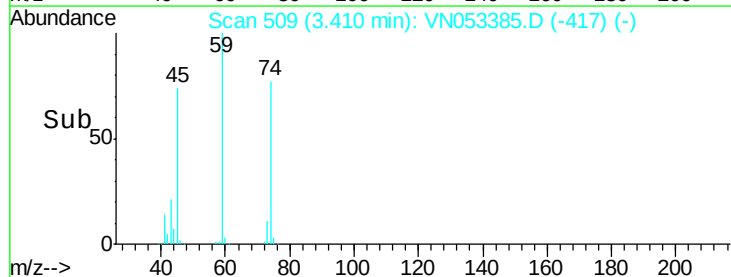
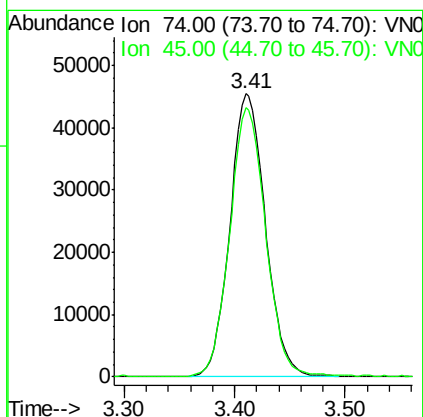
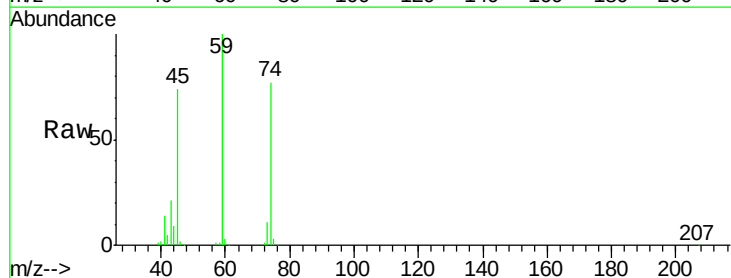
MMDadoda
 1/15/2019 11:14:14 AM

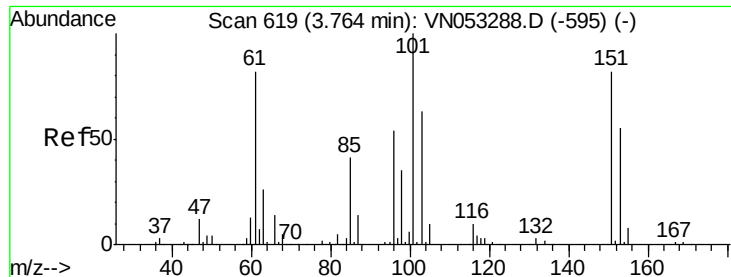


#8

Diethyl Ether
 Concen: 20.172 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.5	48.3	144.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.855 ug/l

RT: 3.76 min Scan# 618

Delta R.T. -0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

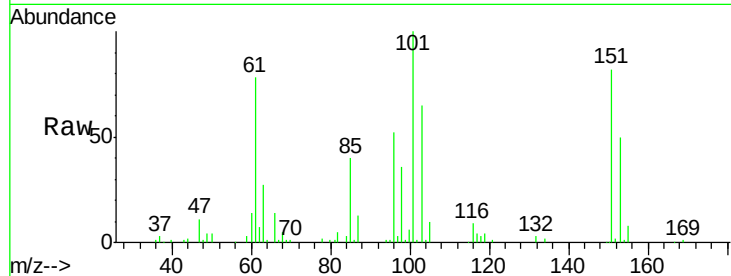
ClientSampleId :

VN0114WBS01

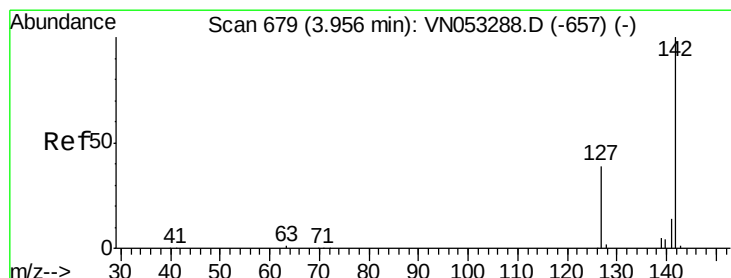
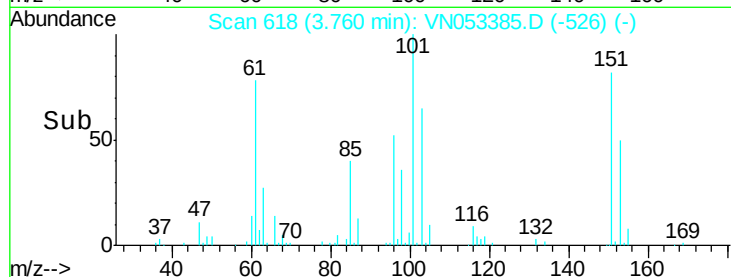
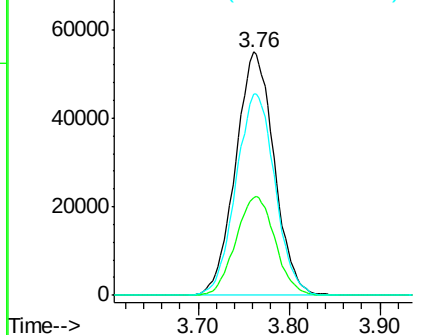
Tot Ion:	101	Resp:	161587
Ion Ratio	Lower	Upper	
101	100		
85	41.2	33.3	49.9
151	84.1	67.0	100.4

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



#10

Methyl Iodide

Concen: 20.205 ug/l

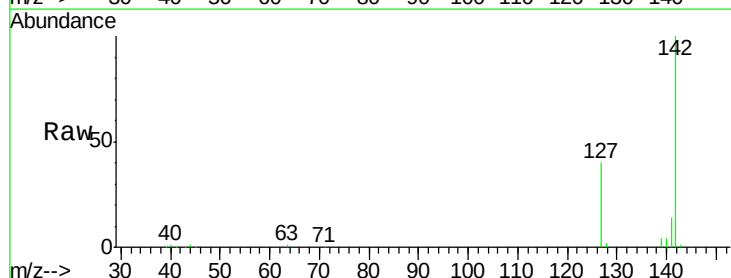
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

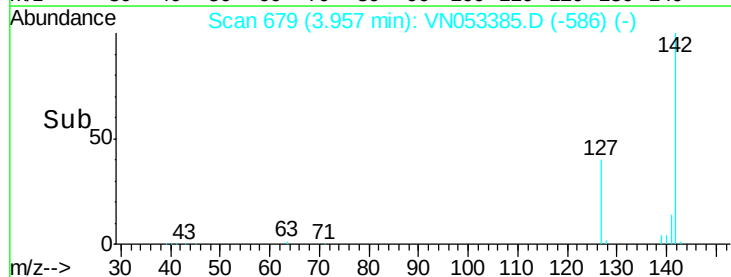
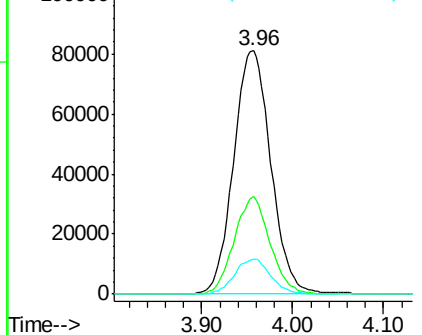
Lab File: VN053385.D

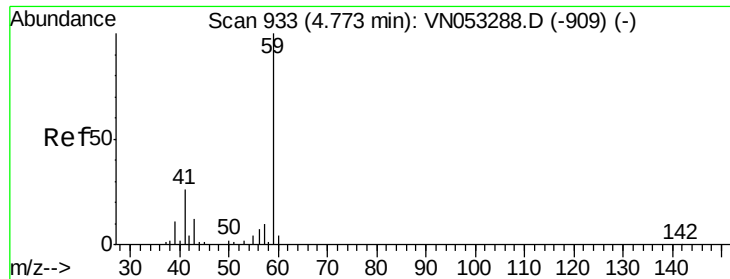
Acq: 14 Jan 2019 12:24

Tgt Ion:	142	Resp:	230486
Ion Ratio	Lower	Upper	
142	100		
127	38.5	30.9	46.3
141	14.0	11.2	16.8



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





#11

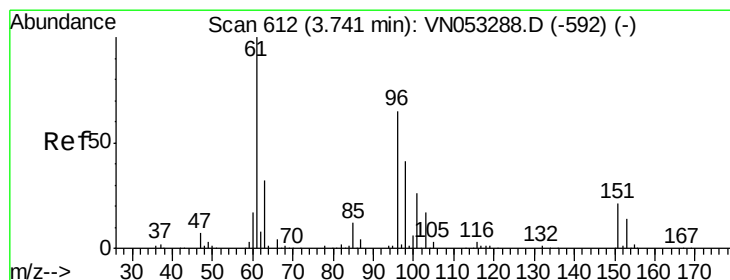
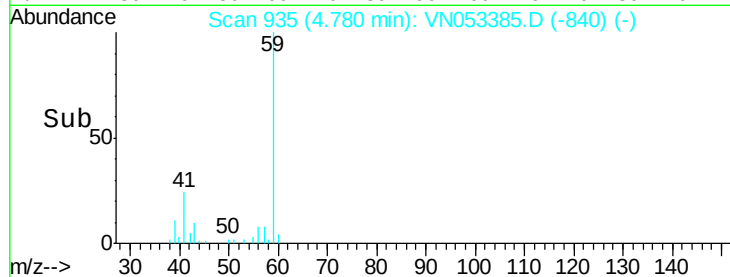
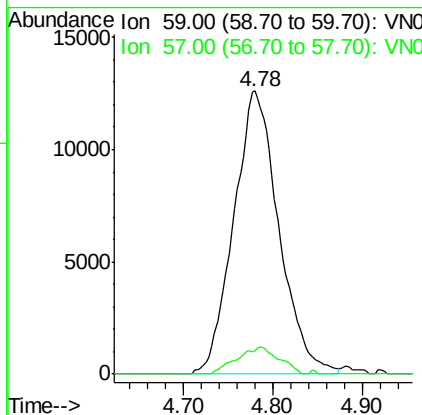
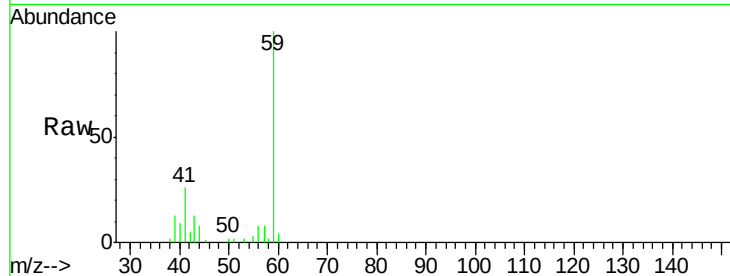
Tert butyl alcohol
 Concen: 84.120 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.01 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
 MSVOA_N
 ClientSampled :
 VN0114WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.9	8.0	12.0

Manual Integrations
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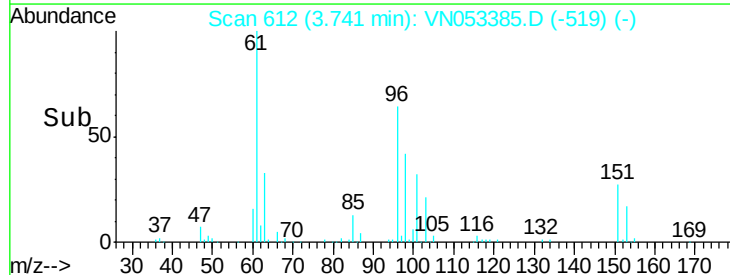
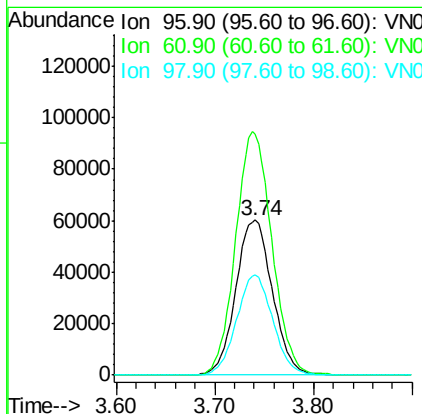
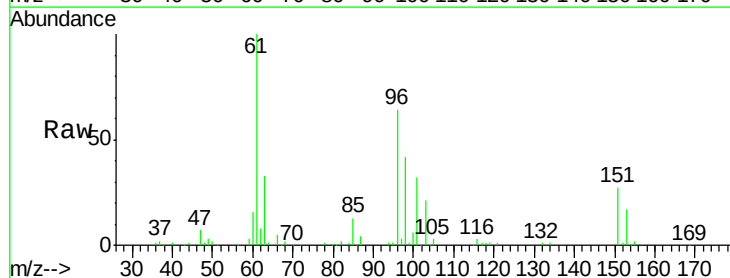
MMDadoda
 1/15/2019 11:14:14 AM

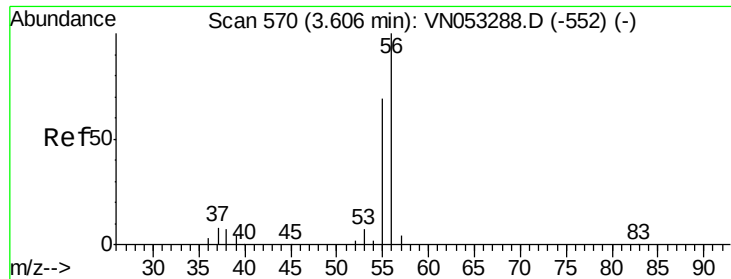


#12

1,1-Dichloroethene
 Concen: 19.667 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.8	123.2	184.8
98	64.7	50.5	75.7





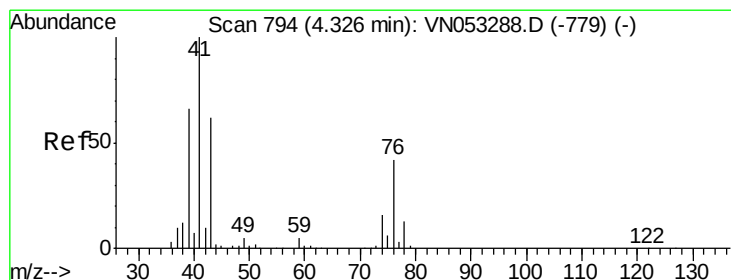
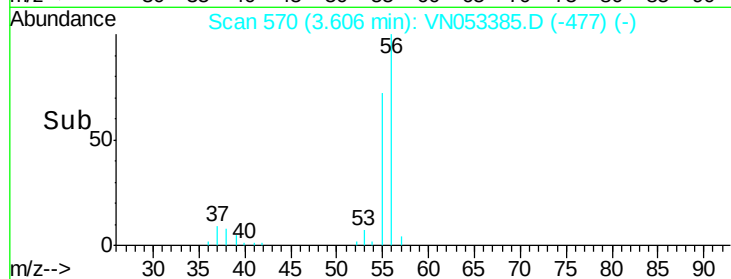
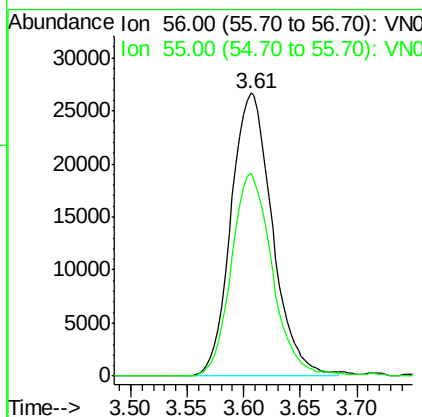
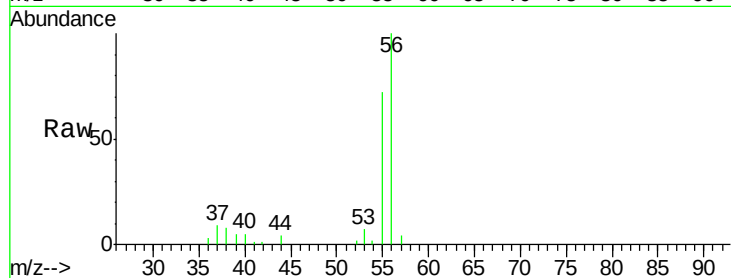
#13
Acrolein
Concen: 102.301 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
56	100		67905		
55	70.0	56.3		84.5	

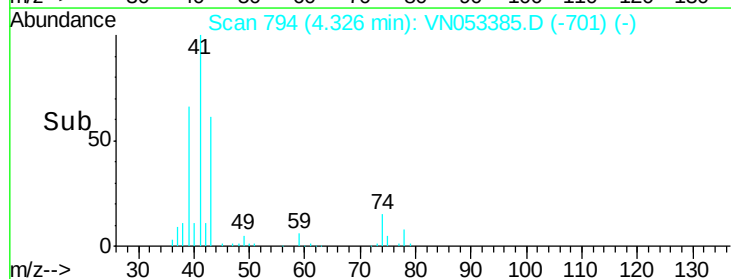
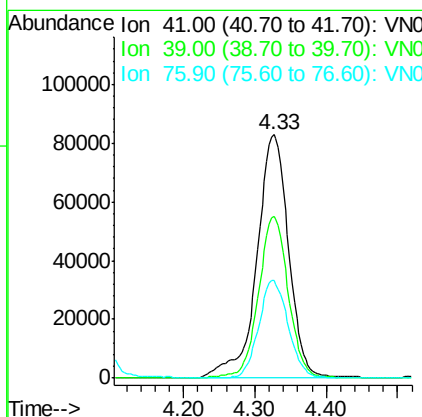
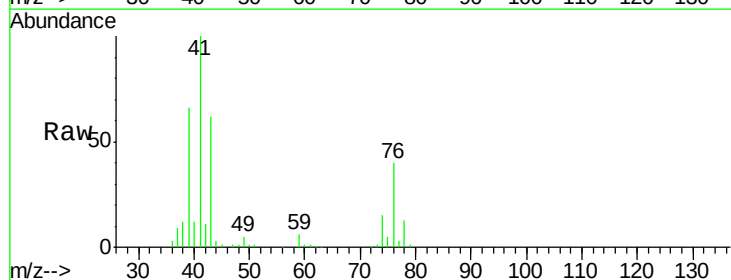
Manual Integrations
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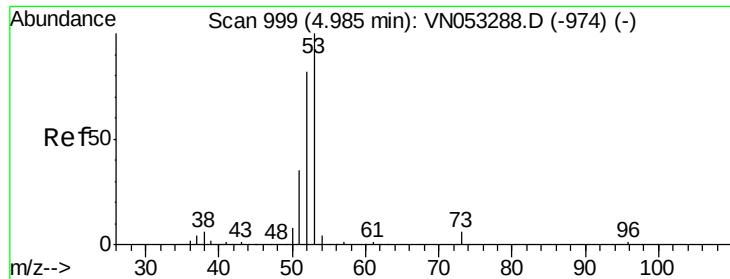
MMDadoda
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#14
Allyl chloride
Concen: 20.159 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
41	100		255769		
39	62.6	51.9		77.9	
76	37.4	31.2		46.8	





#15

Acrylonitrile

Concen: 97.137 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

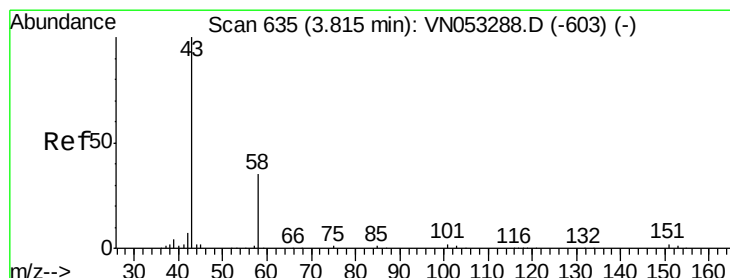
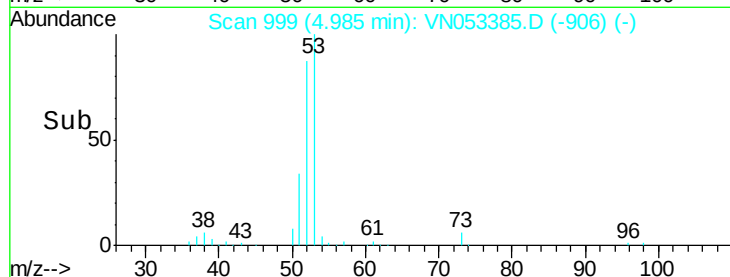
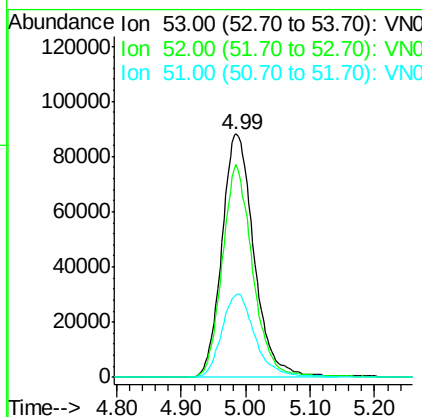
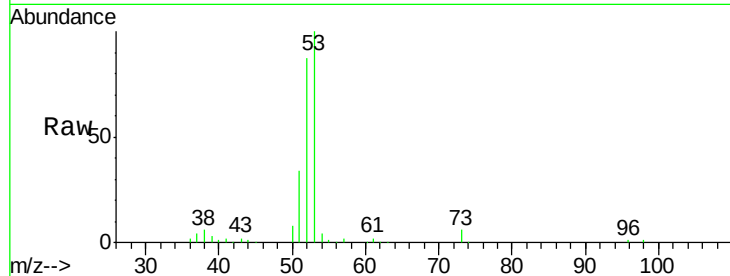
ClientSampleId :

VN0114WBS01

Tot Ion:	53	Resp:	306127
Ion Ratio		Lower	Upper
53	100		
52	82.4	65.2	97.8
51	35.1	28.0	42.0

Manual Integrations
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#16

Acetone

Concen: 91.995 ug/l

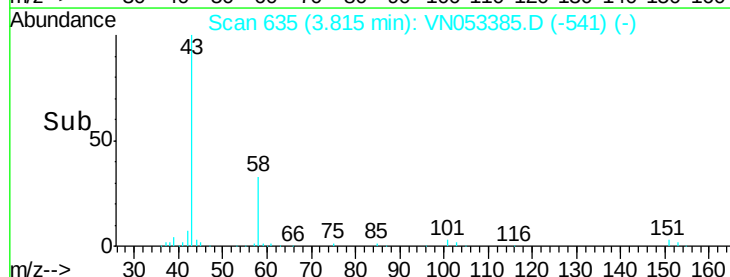
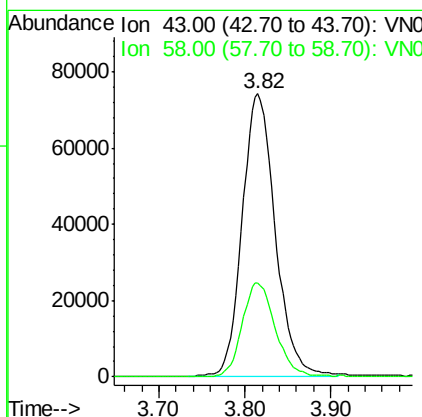
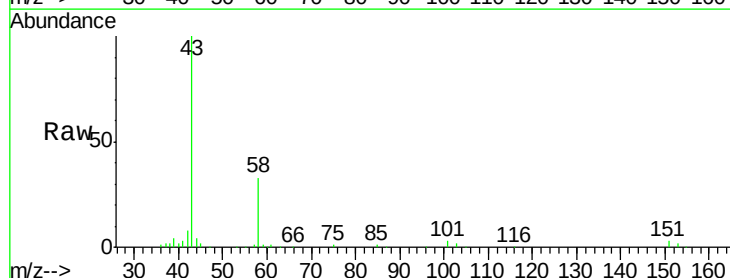
RT: 3.82 min Scan# 635

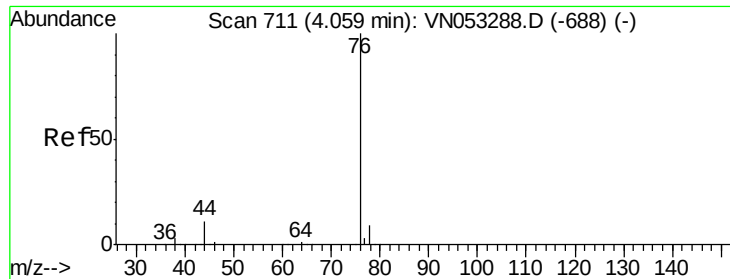
Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion:	43	Resp:	197316
Ion Ratio		Lower	Upper
43	100		
58	33.5	27.8	41.6





#17

Carbon Disulfide

Concen: 17.547 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

VN0114WBS01

Tot Ion: 76 Resp: 425849

Ion Ratio Lower Upper

76 100

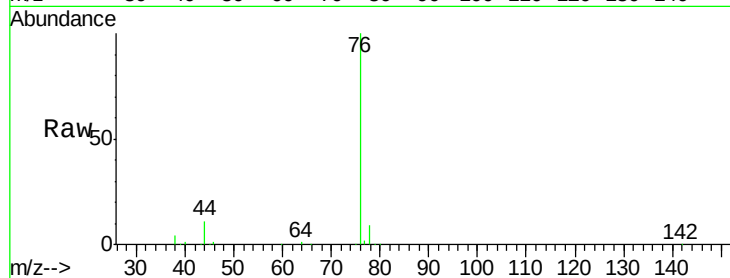
78 9.0 7.2 10.8

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Abundance Ion 75.90 (75.60 to 76.60): VN053385.D (-618) (-)

Ion 77.90 (77.60 to 78.60): VN053385.D (-618) (-)

4.06

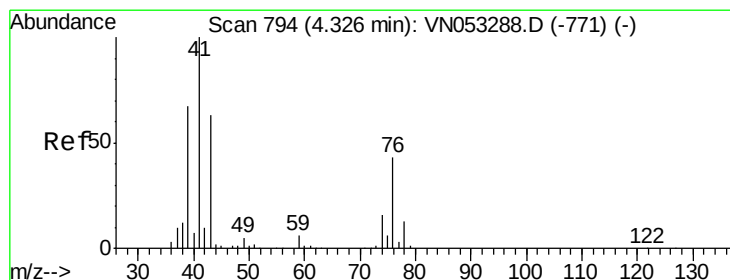
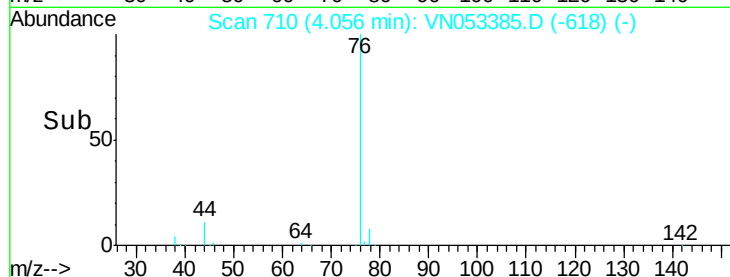
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 19.103 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053385.D

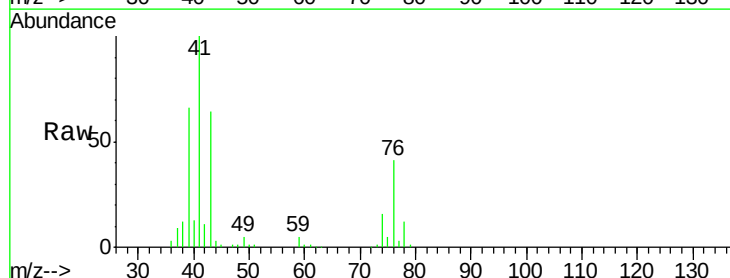
Acq: 14 Jan 2019 12:24

Tgt Ion: 43 Resp: 151752

Ion Ratio Lower Upper

43 100

74 24.4 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN053385.D (-701) (-)

Ion 74.00 (73.70 to 74.70): VN053385.D (-701) (-)

4.32

60000

50000

40000

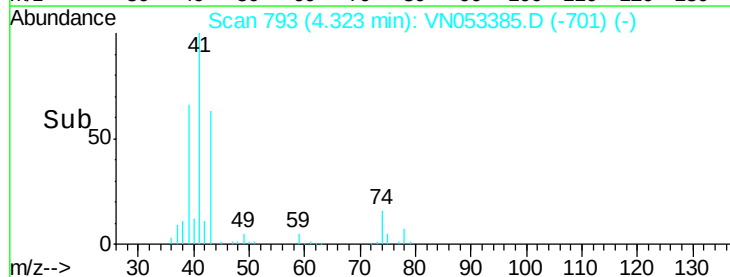
30000

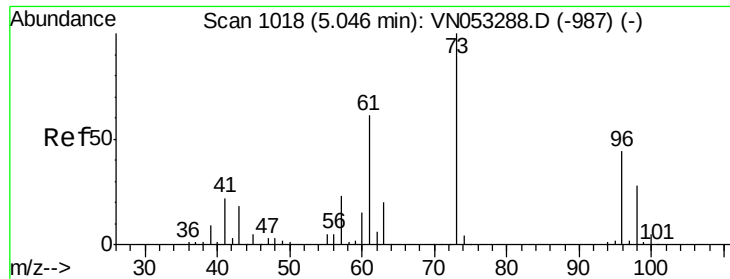
20000

10000

0

Time-->





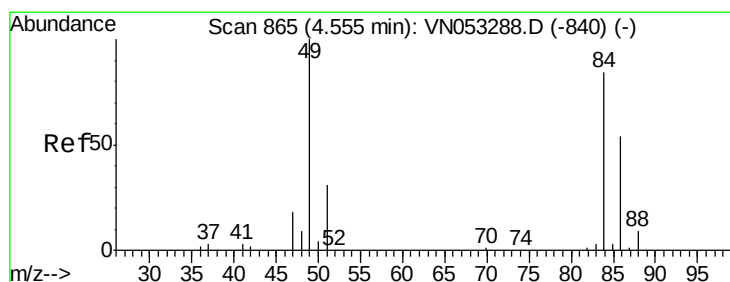
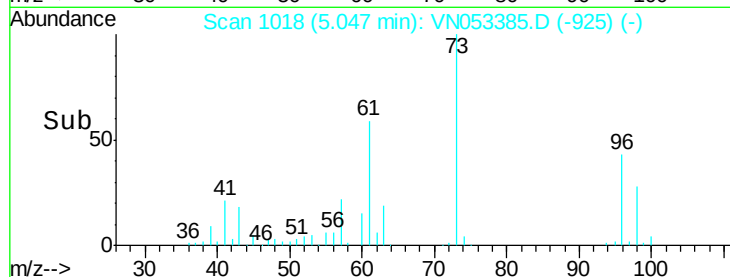
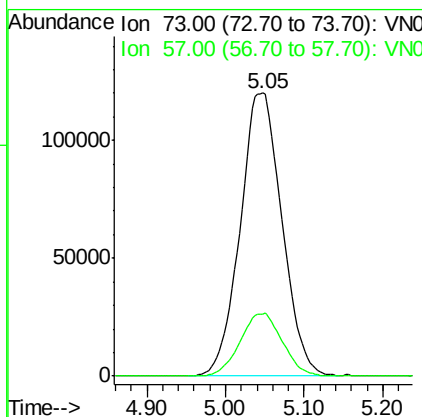
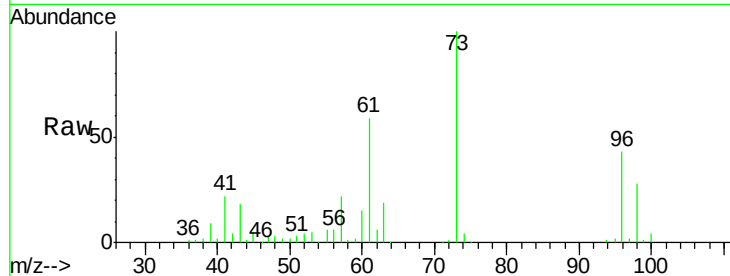
#19
Methyl tert-butyl Ether
Concen: 20.320 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion: 73 Resp: 448927
Ion Ratio Lower Upper
73 100
57 22.0 18.5 27.7

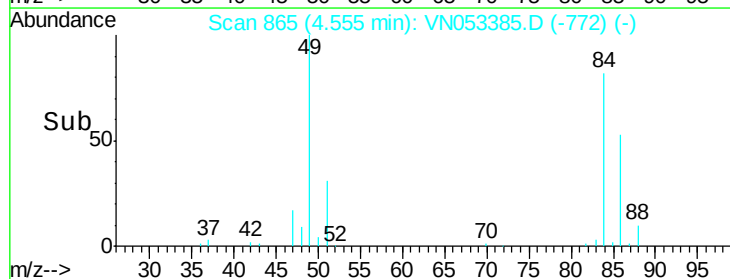
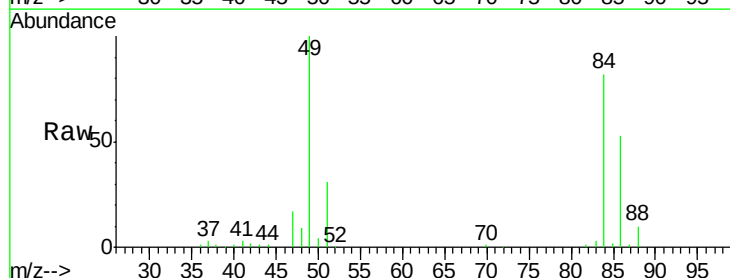
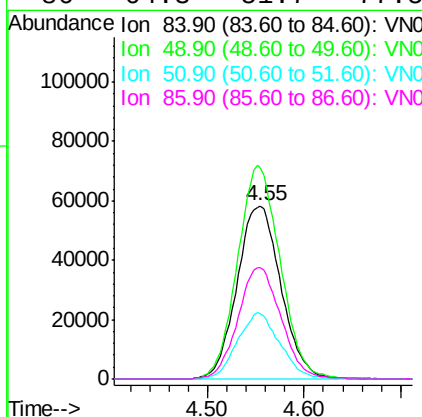
Manual Integrations
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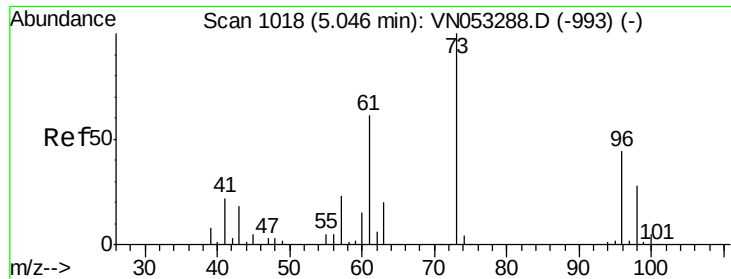
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#20
Methylene Chloride
Concen: 19.481 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion: 84 Resp: 183642
Ion Ratio Lower Upper
84 100
49 121.9 95.3 142.9
51 37.8 29.0 43.6
86 64.3 51.7 77.5





#21

trans-1,2-Dichloroethene

Concen: 19.460 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

VN0114WBS01

Tot Ion: 96 Resp: 164478

Ion Ratio Lower Upper

96 100

61 137.6 110.2 165.4

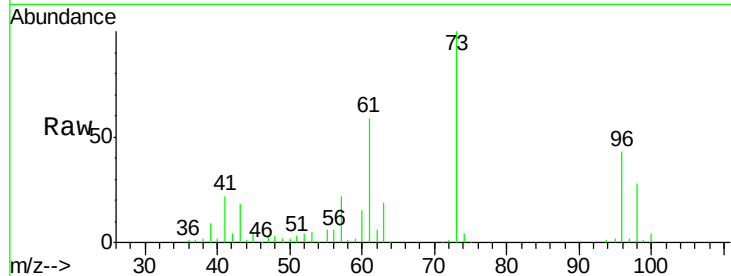
98 64.2 50.7 76.1

Manual Integrations

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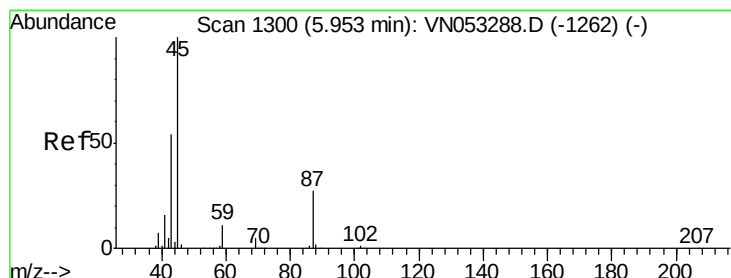
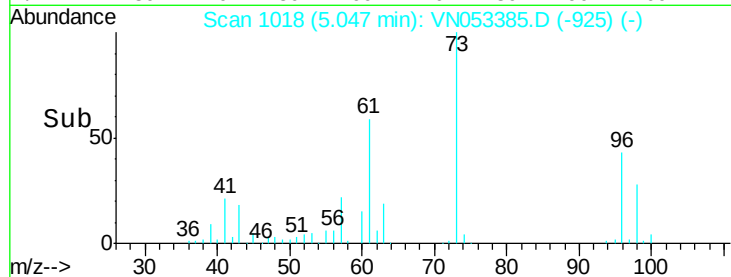
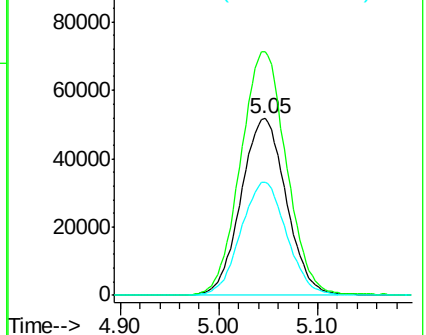
1/15/2019 11:14:14 AM



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 20.543 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion: 45 Resp: 561503

Ion Ratio Lower Upper

45 100

43 57.7 43.0 64.6

87 28.2 22.1 33.1

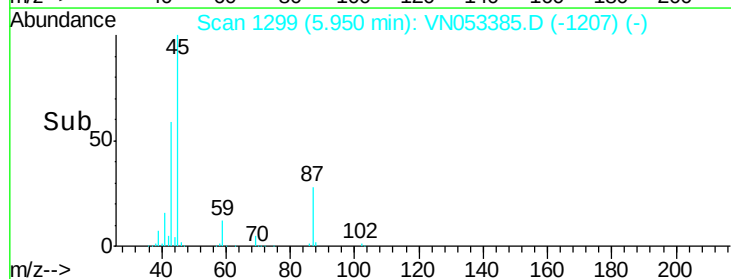
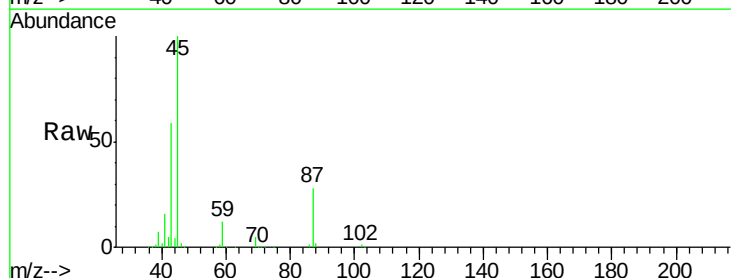
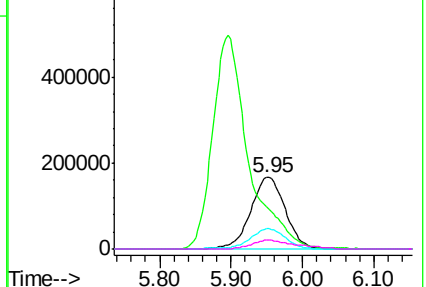
59 11.9 9.0 13.4

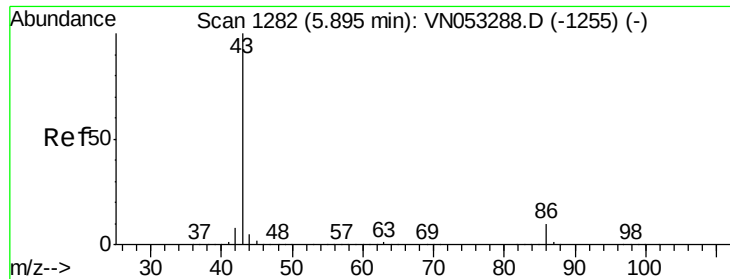
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





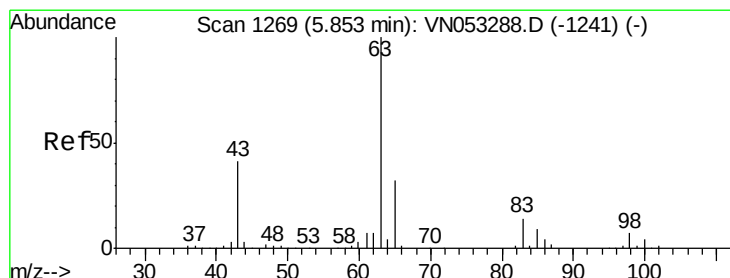
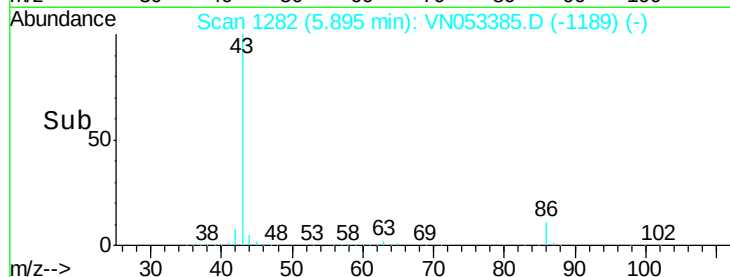
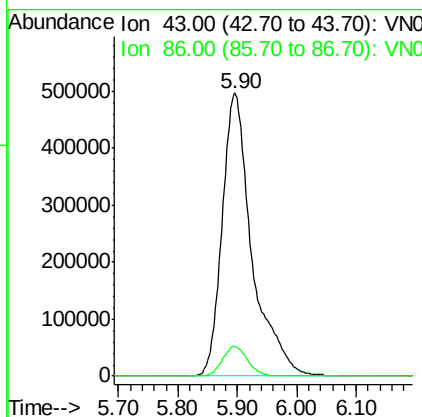
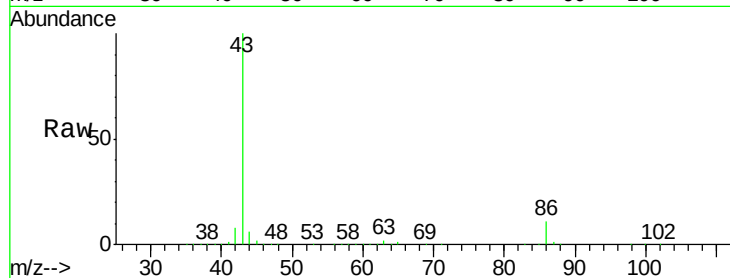
#23
Vinyl Acetate
Concen: 100.621 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampled :
VN0114WBS01

Tot Ion: 43 Resp: 1730473
Ion Ratio Lower Upper
43 100
86 10.5 8.4 12.6

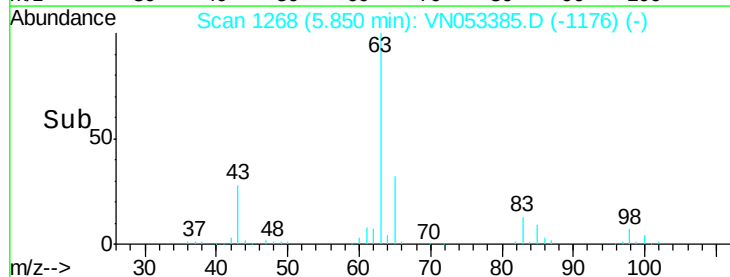
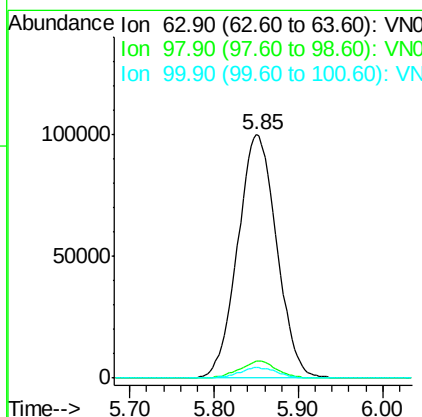
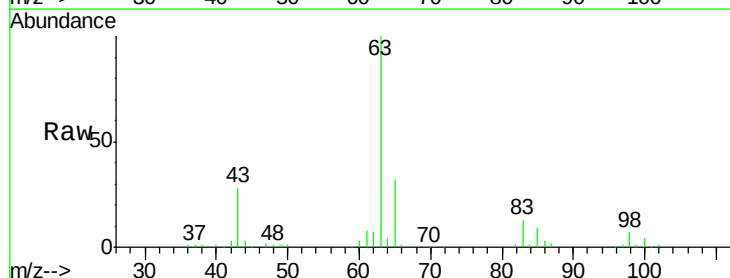
Manual Integrations
APPROVED

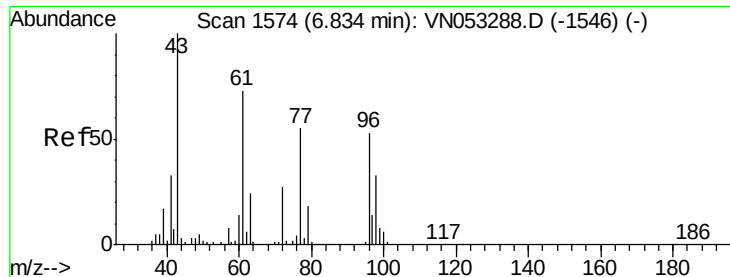
MMDadoda
1/15/2019 11:14:14 AM



#24
1,1-Dichloroethane
Concen: 20.409 ug/l
RT: 5.85 min Scan# 1268
Delta R.T. -0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion: 63 Resp: 321729
Ion Ratio Lower Upper
63 100
98 7.0 3.3 9.8
100 4.5 2.1 6.5





#25

2-Butanone

Concen: 93.086 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampled :

VN0114WBS01

Tot Ion: 43 Resp: 335195

Ion Ratio Lower Upper

43 100

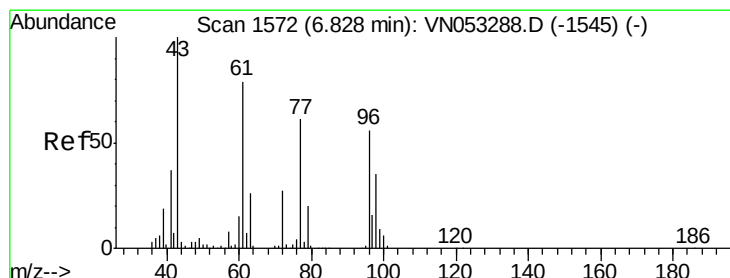
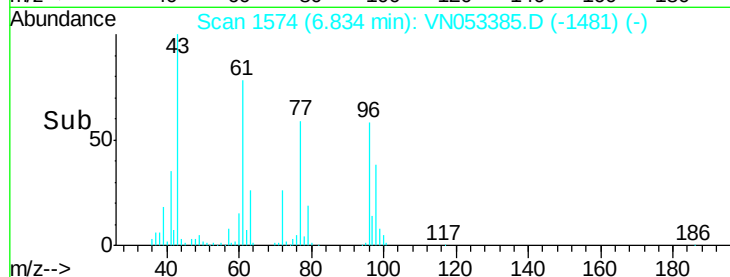
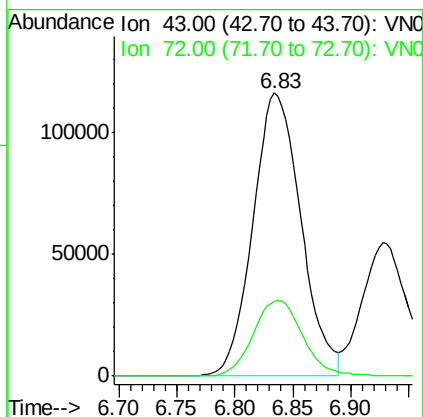
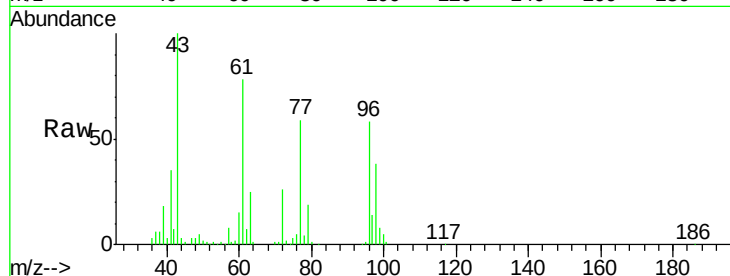
72 26.3 22.0 33.0

Manual Integrations

APPROVED

MMDadoda

1/15/2019 11:14:14 AM



#26

2,2-Dichloropropane

Concen: 20.314 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053385.D

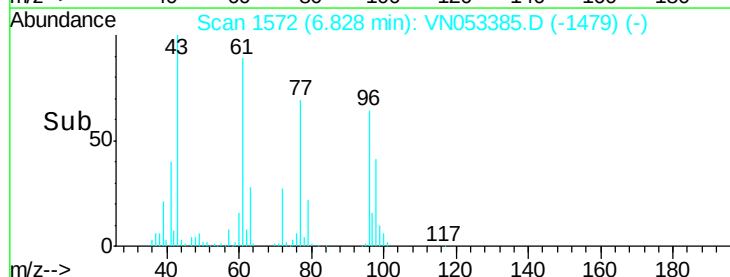
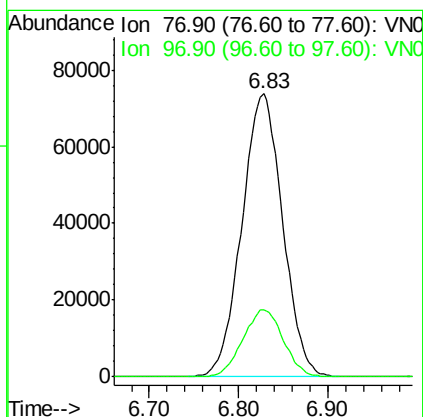
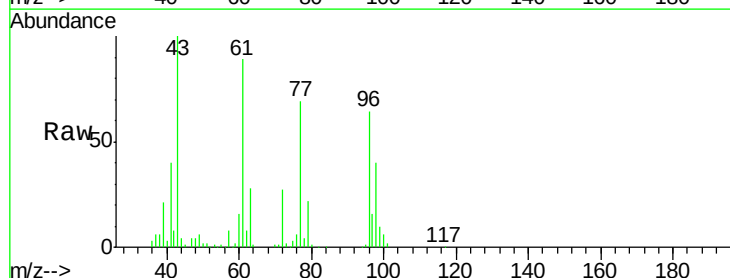
Acq: 14 Jan 2019 12:24

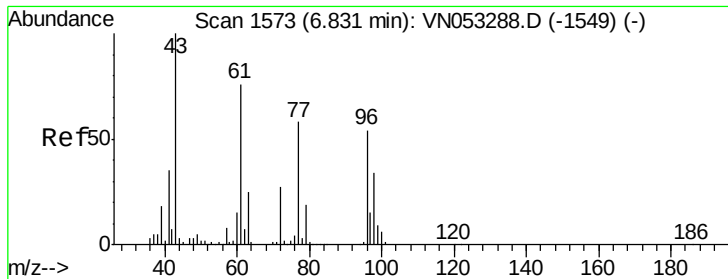
Tgt Ion: 77 Resp: 234084

Ion Ratio Lower Upper

77 100

97 23.6 12.3 36.9





#27

cis-1,2-Dichloroethene

Concen: 20.470 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

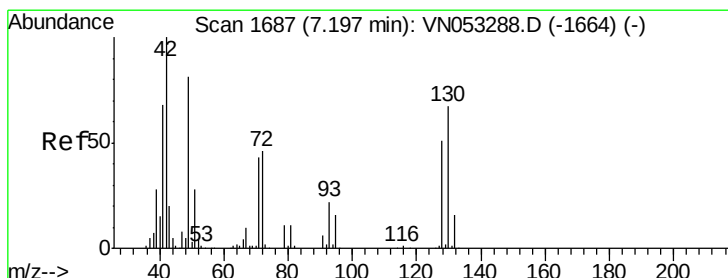
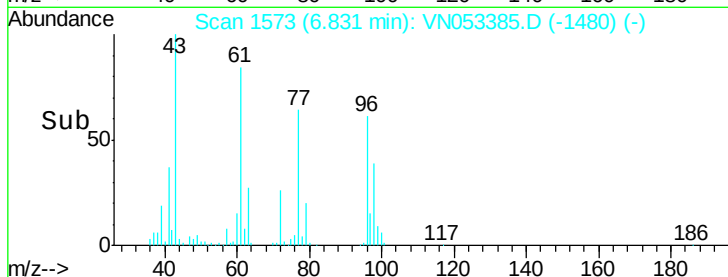
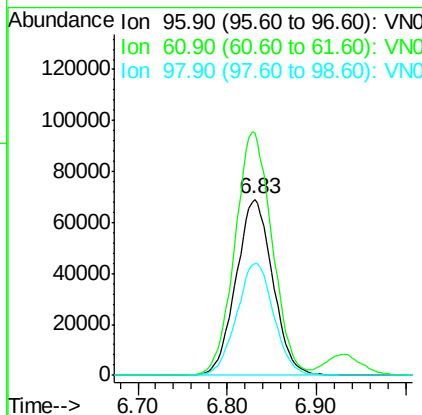
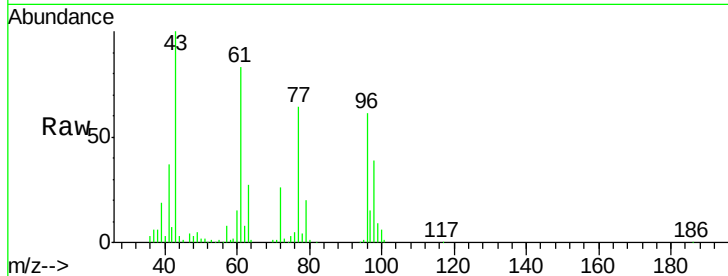
ClientSampleId :

VN0114WBS01

Tot Ion:	96	Resp:	197583
Ion	Ratio	Lower	Upper
96	100		
61	140.3	0.0	280.6
98	64.6	0.0	127.6

Manual Integrations
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#28

Bromochloromethane

Concen: 20.786 ug/l

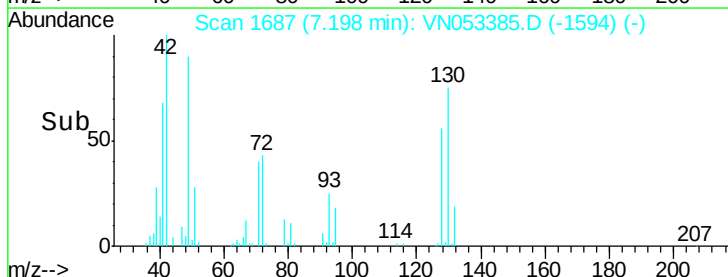
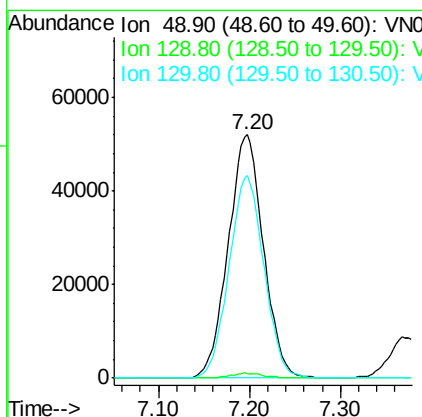
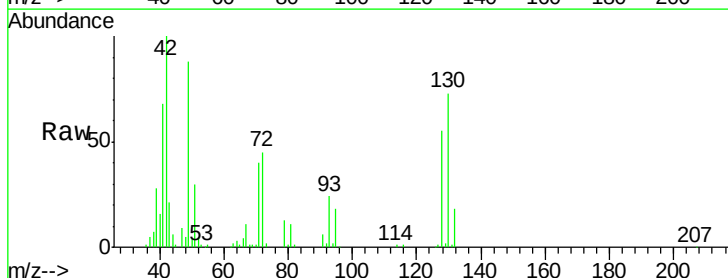
RT: 7.20 min Scan# 1687

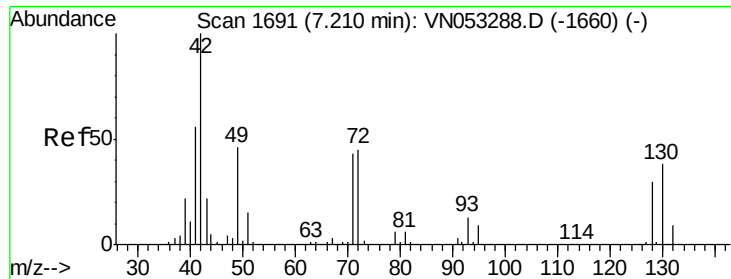
Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion:	49	Resp:	139634
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	82.6	65.4	98.0





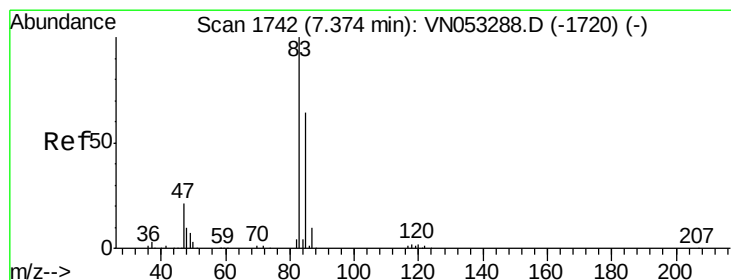
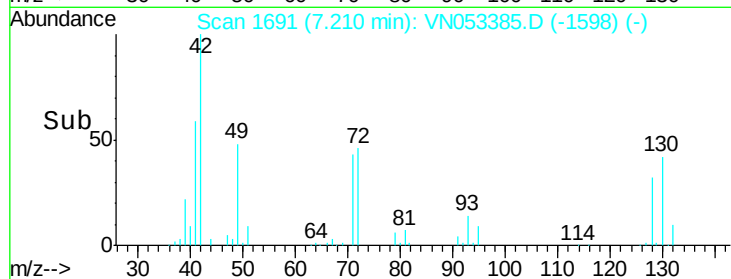
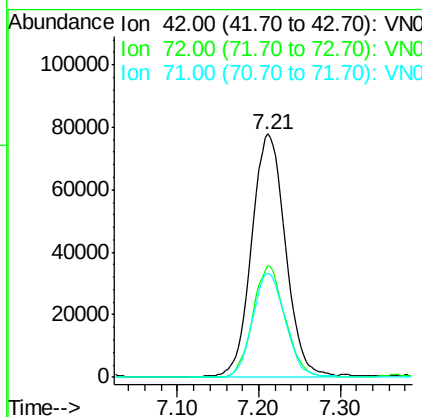
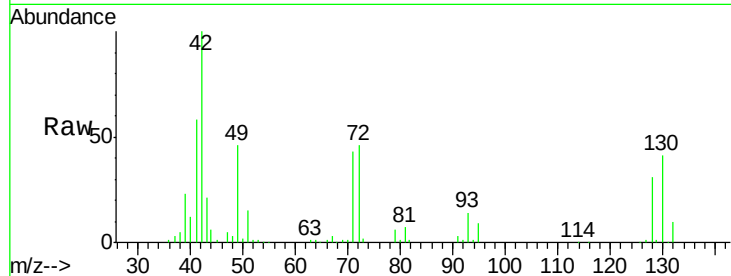
#29
Tetrahydrofuran
Concen: 94.432 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.3	35.6	53.4
71	41.1	33.8	50.8

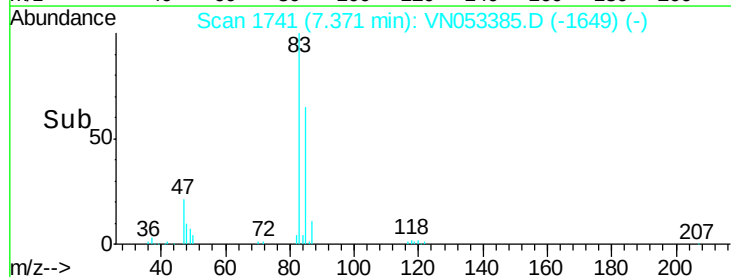
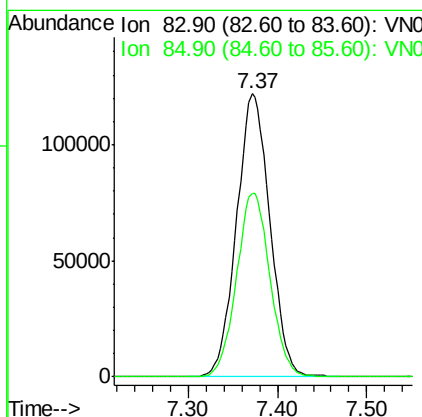
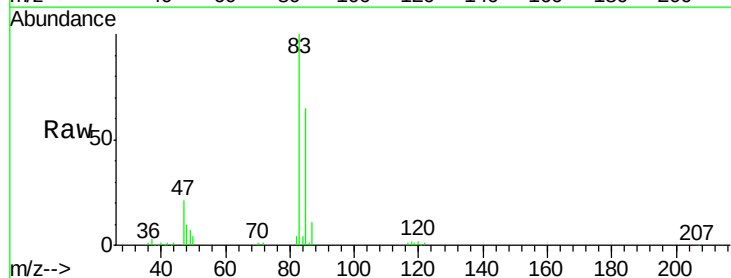
Manual Integrations
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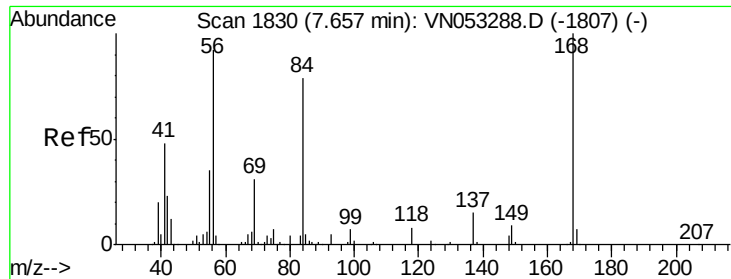
MMDadoda
1/15/2019 11:14:14 AM



#30
Chloroform
Concen: 20.408 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.3	76.9





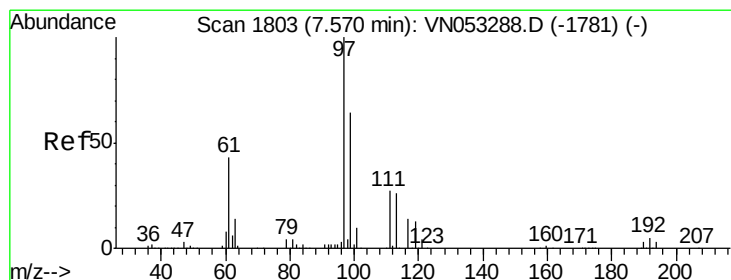
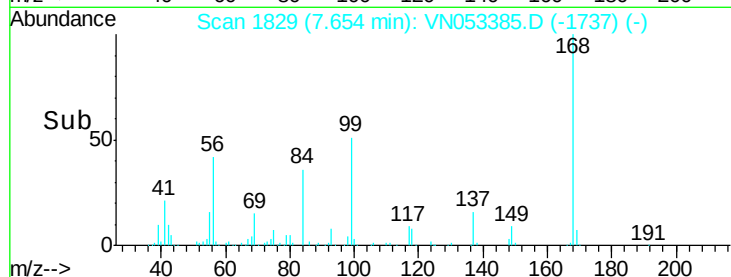
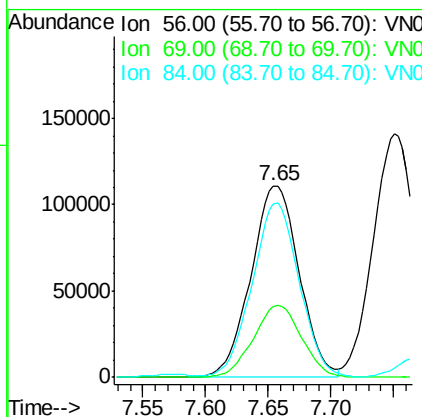
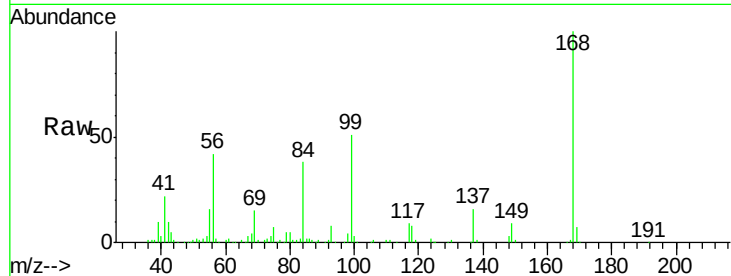
#31
Cyclohexane
Concen: 19.653 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampled :
VN0114WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.7	26.7	40.1
84	89.2	68.2	102.4

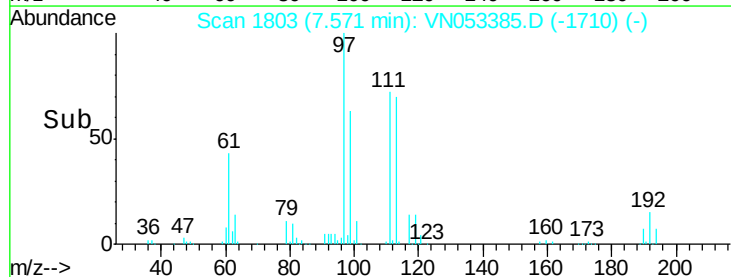
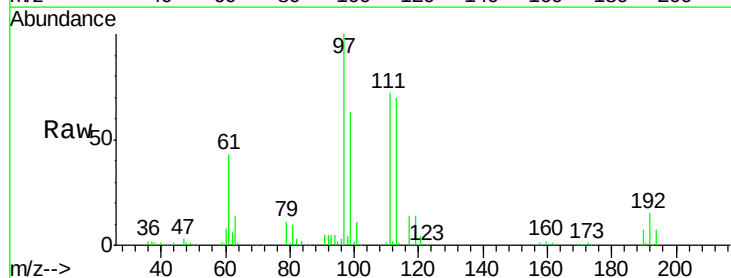
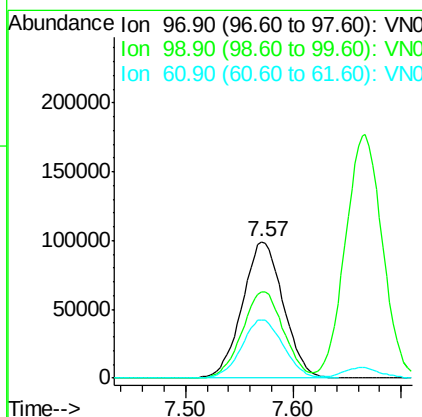
Manual Integrations
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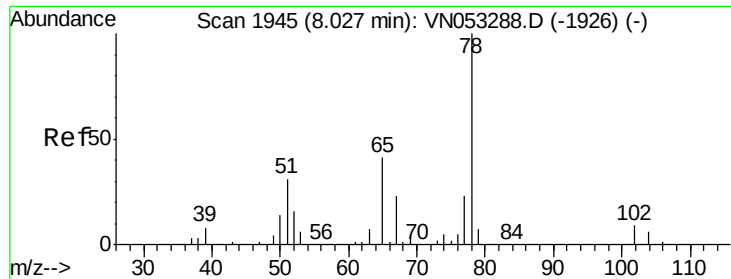
MMDadoda
1/15/2019 11:14:14 AM



#32
1,1,1-Trichloroethane
Concen: 20.238 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.6	77.4
61	43.4	34.6	52.0





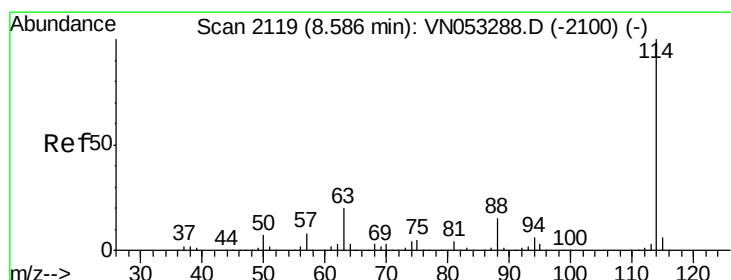
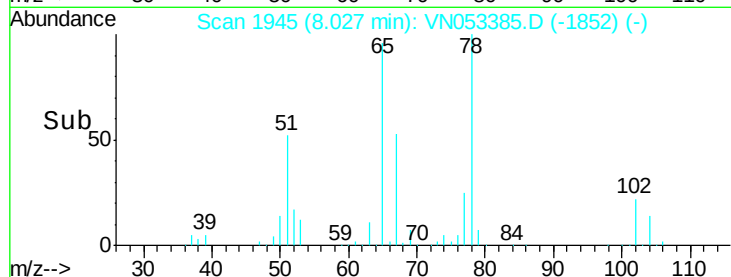
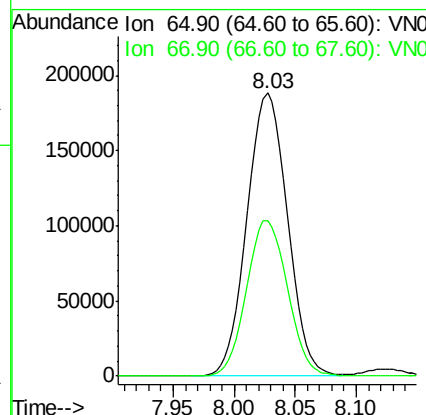
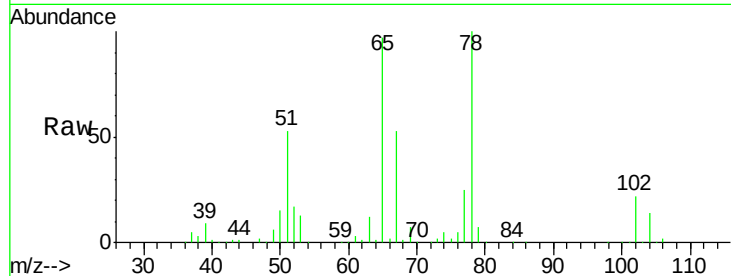
#33
 1,2-Dichloroethane-d4
 Concen: 20.238 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0114WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.5	0.0	111.0	

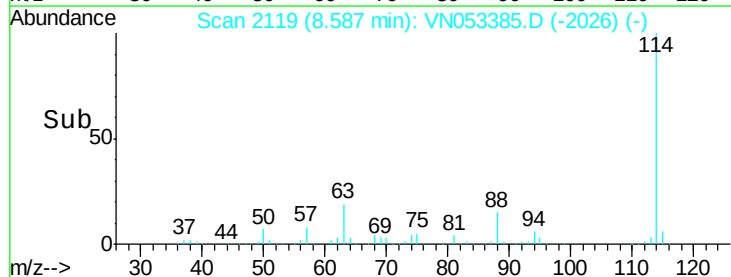
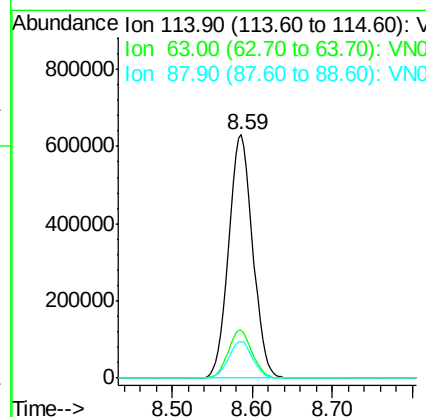
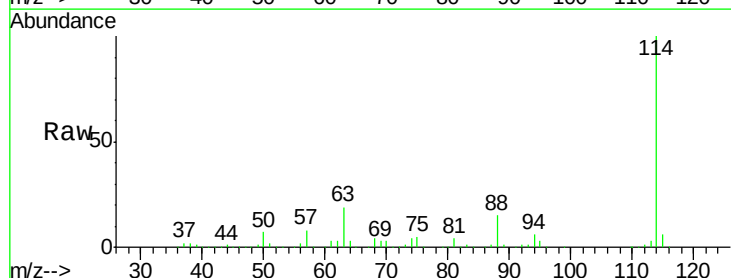
Manual Integrations
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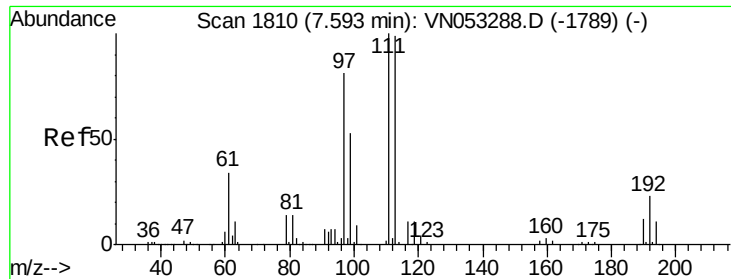
MMDadoda
 1/15/2019 11:14:14 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.5	0.0	39.0	
88	15.1	0.0	30.8	





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

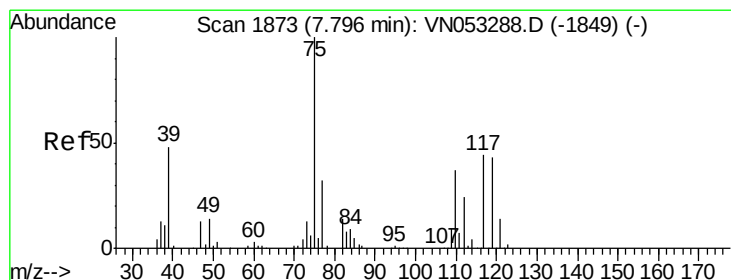
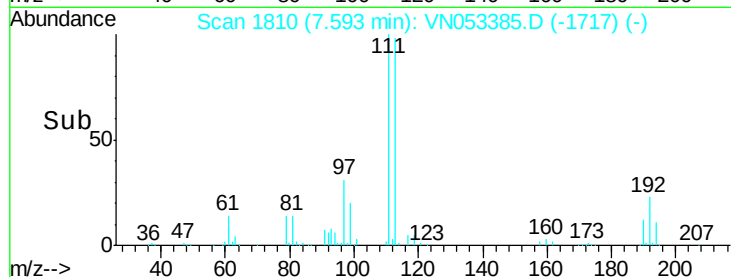
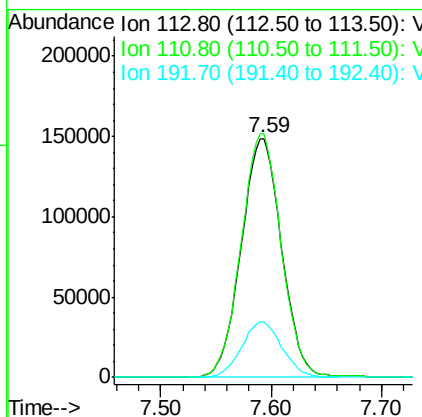
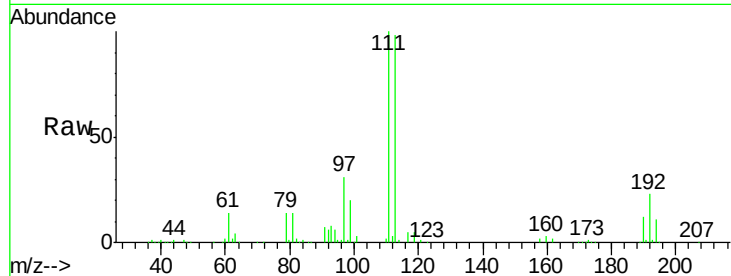
ClientSampleId :

VN0114WBS01

Tot Ion:	113	Resp:	376101
Ion Ratio	Lower	Upper	
113	100		
111	101.8	81.4	122.2
192	23.2	17.9	26.9

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 19.670 ug/l

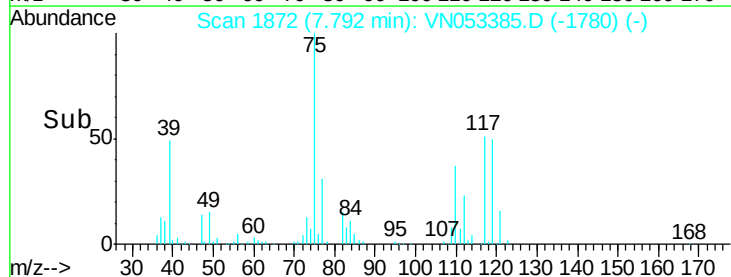
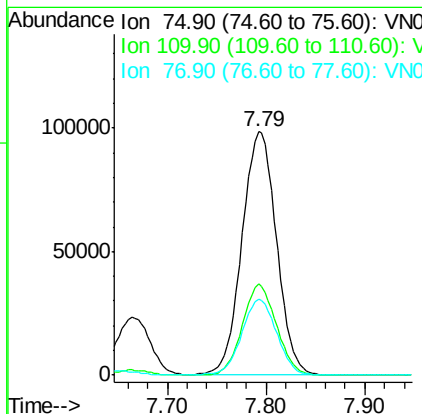
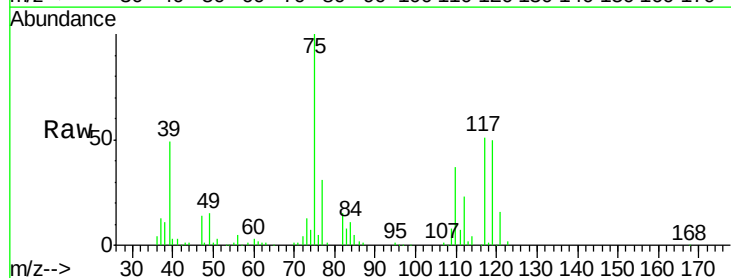
RT: 7.79 min Scan# 1872

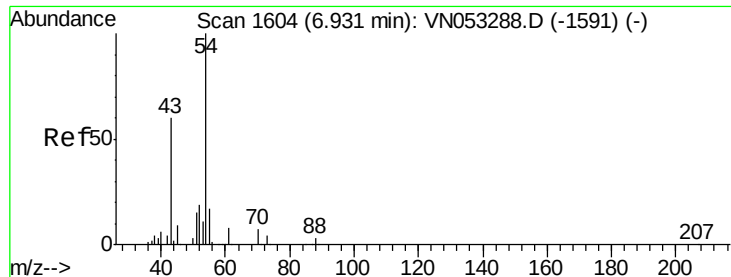
Delta R.T. -0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion:	75	Resp:	237832
Ion Ratio	Lower	Upper	
75	100		
110	36.7	18.4	55.0
77	31.8	25.3	37.9





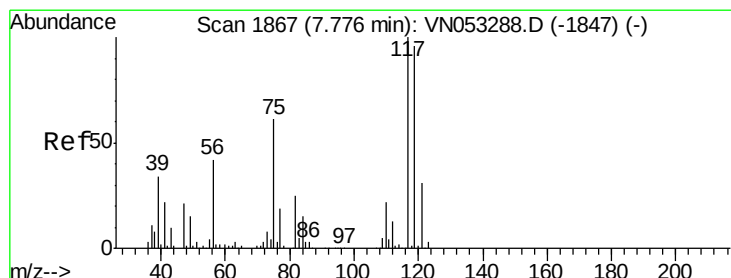
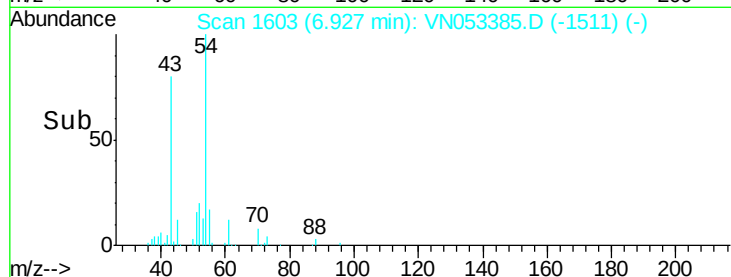
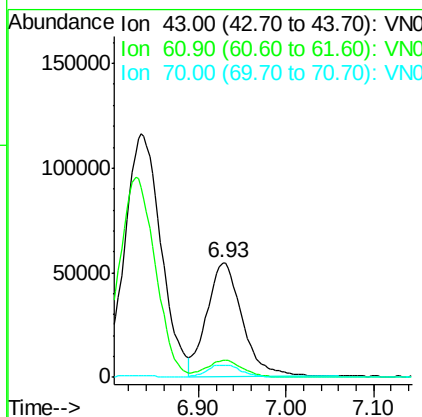
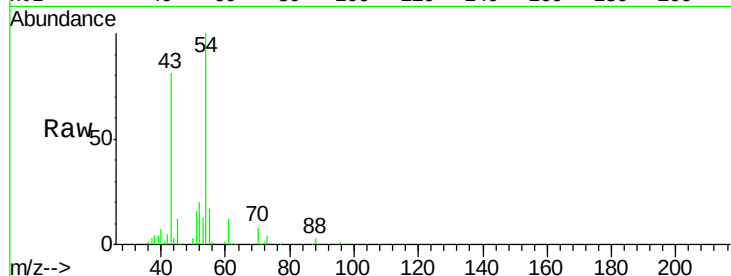
#37
Ethyl Acetate
Concen: 19.424 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.9	17.9
70	10.8	8.6	13.0

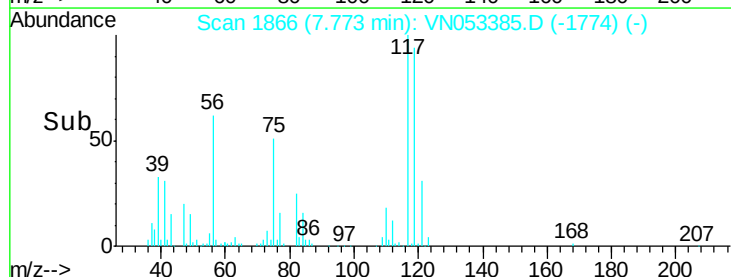
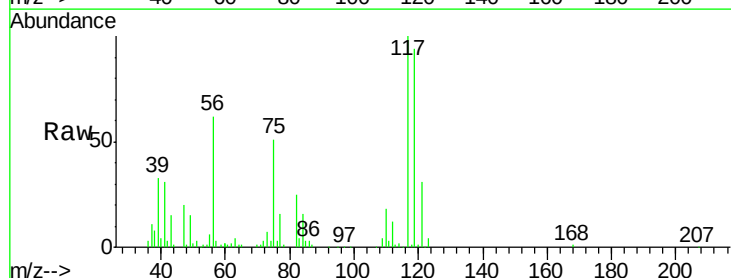
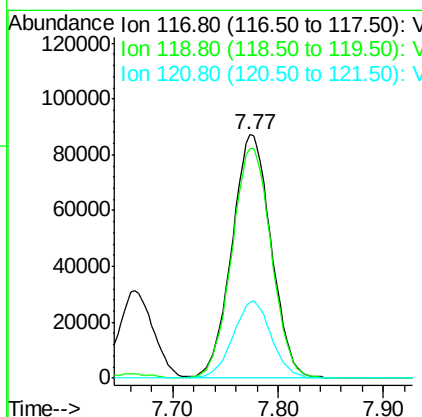
Manual Integrations
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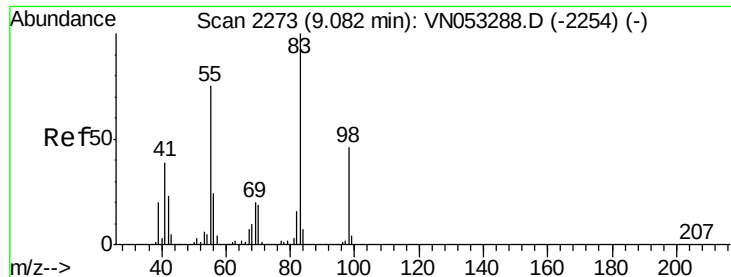
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#38
Carbon Tetrachloride
Concen: 20.186 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.6	115.0
121	31.2	25.0	37.4





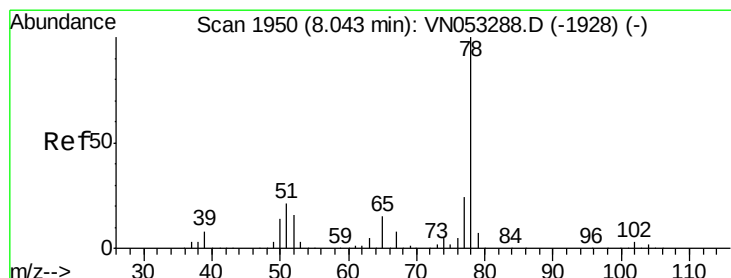
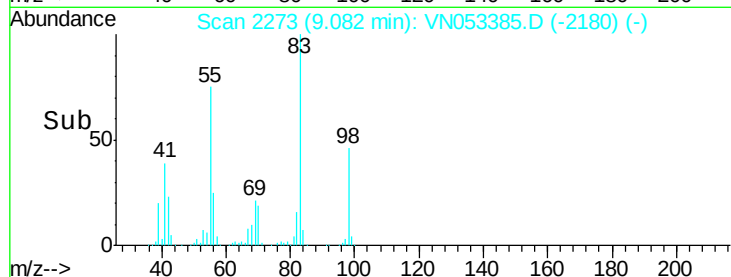
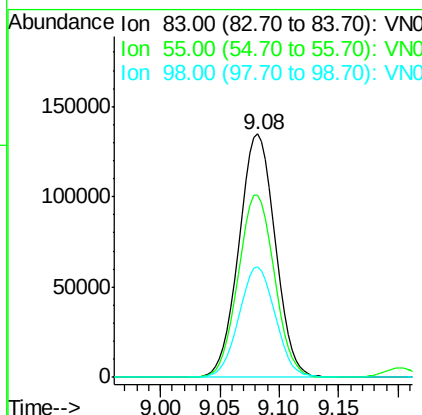
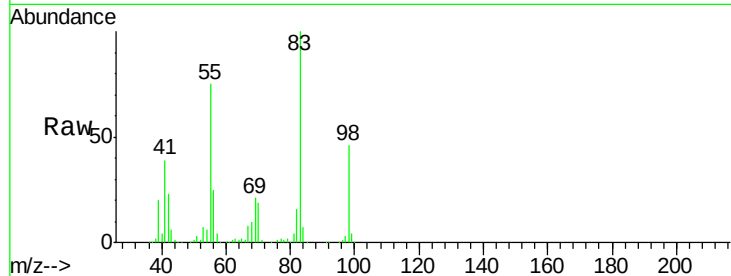
#39
Methylvlcyclohexane
Concen: 20.415 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	75.1	60.1	90.1	
98	45.6	36.7	55.1	

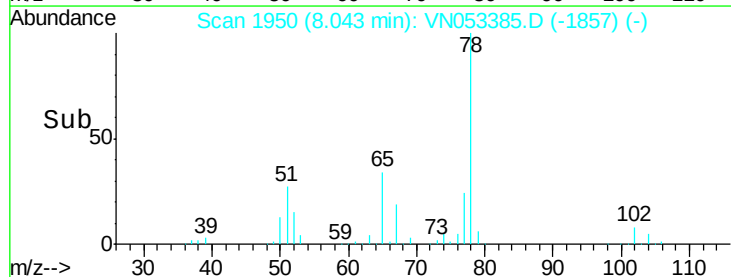
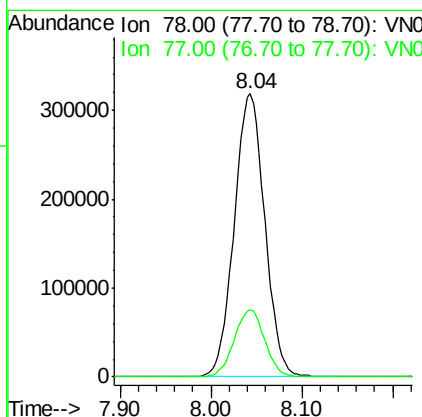
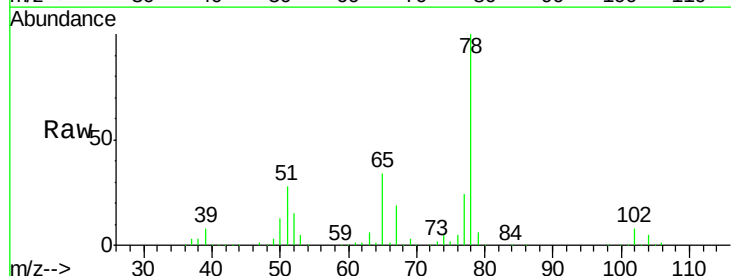
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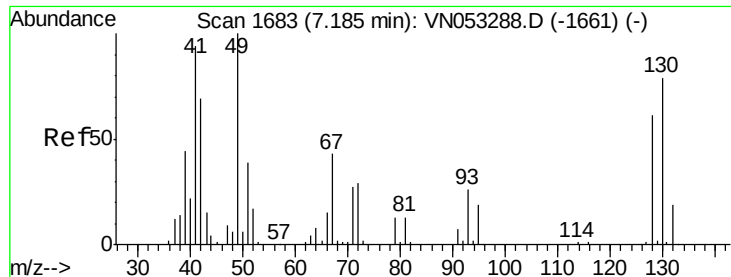
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#40
Benzene
Concen: 20.104 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.7	19.0	28.4	





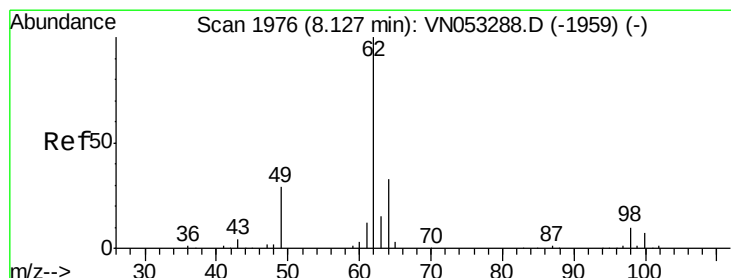
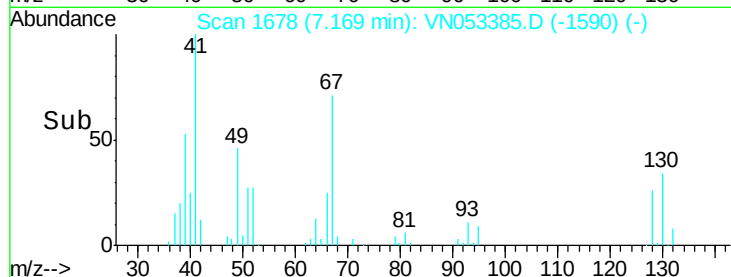
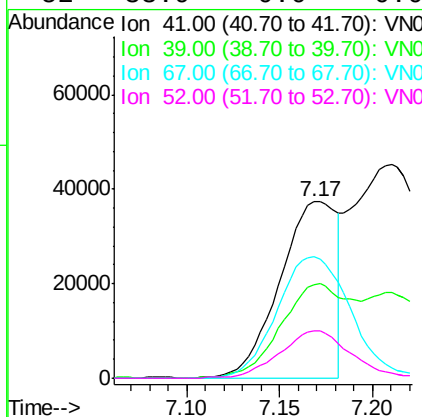
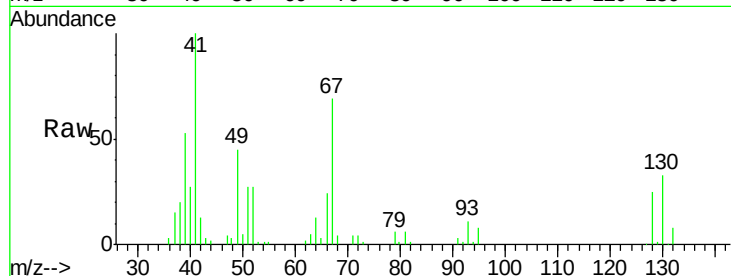
#41
Methacrylonitrile
Concen: 16.337 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.02 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	68.0	0.0	0.0#		
67	89.9	0.0	0.0#		
52	33.9	0.0	0.0#		

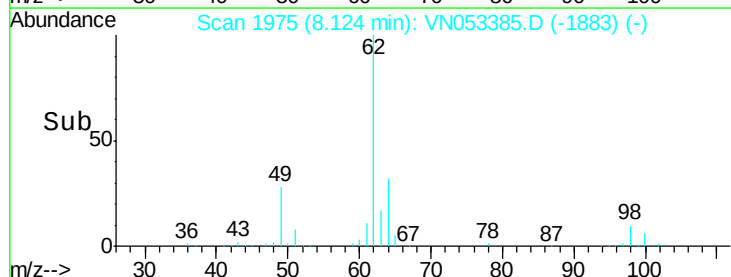
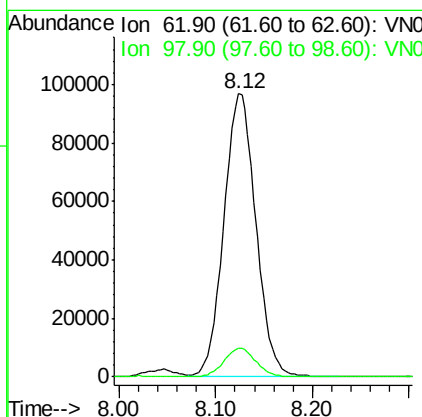
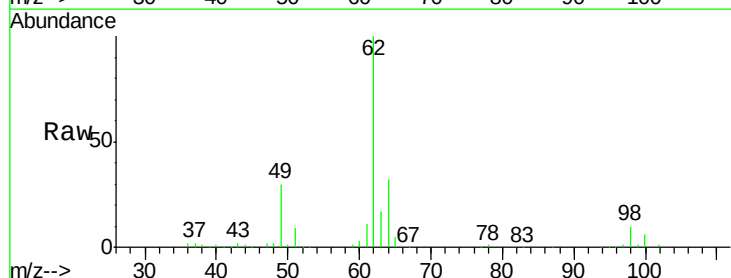
Manual Integrations
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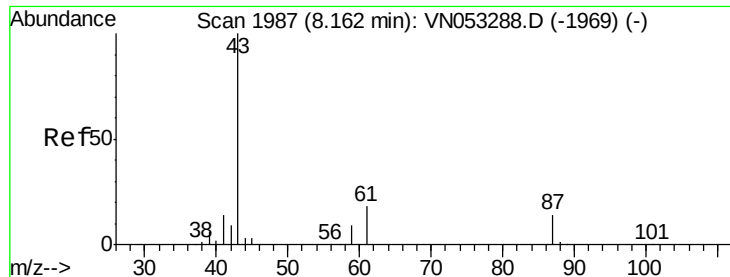
MMDadoda
1/15/2019 11:14:14 AM



#42
1,2-Dichloroethane
Concen: 20.335 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	10.0	0.0	20.2		





#43

Isopropyl Acetate

Concen: 18.199 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

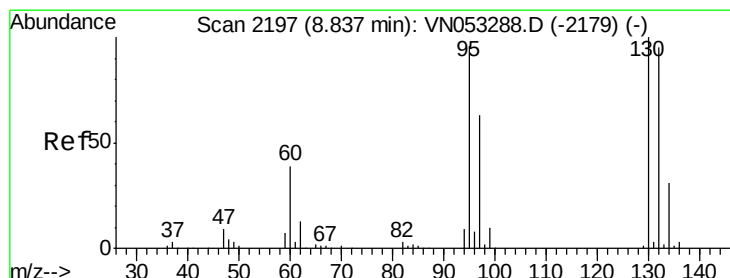
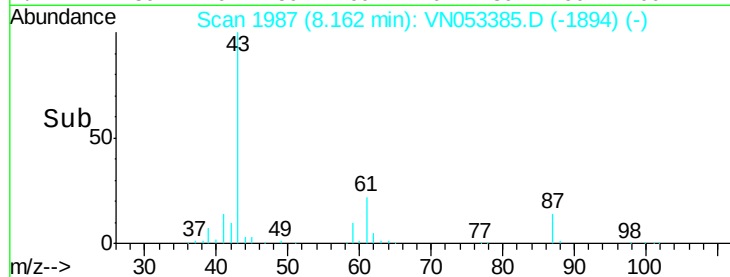
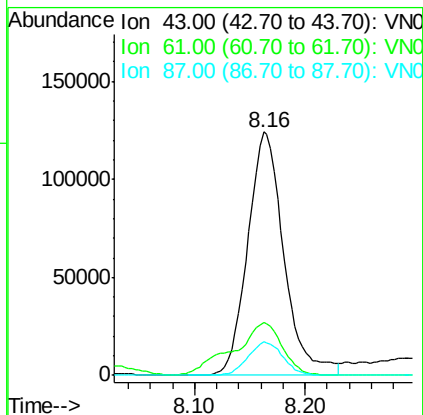
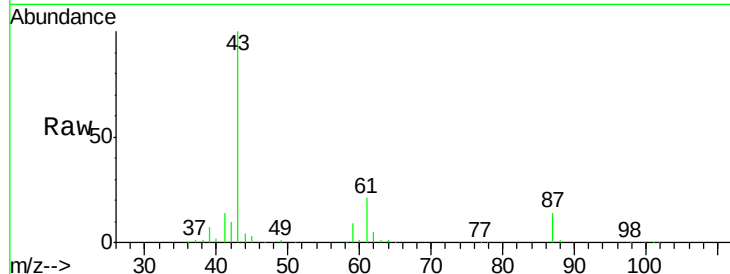
ClientSampleId :

VN0114WBS01

Tot Ion:	43	Resp:	281956
Ion	Ratio	Lower	Upper
43	100		
61	28.9	23.3	34.9
87	13.3	10.8	16.2

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#44

Trichloroethene

Concen: 20.087 ug/l

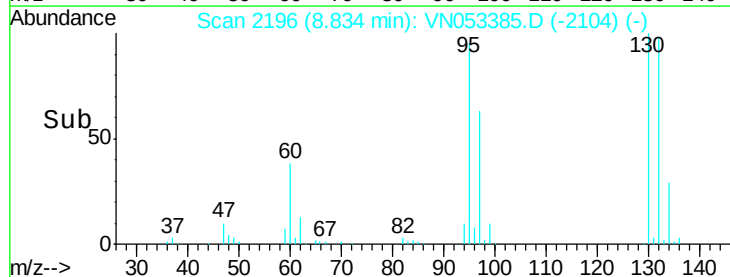
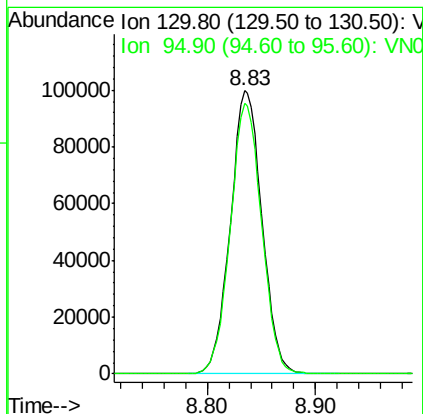
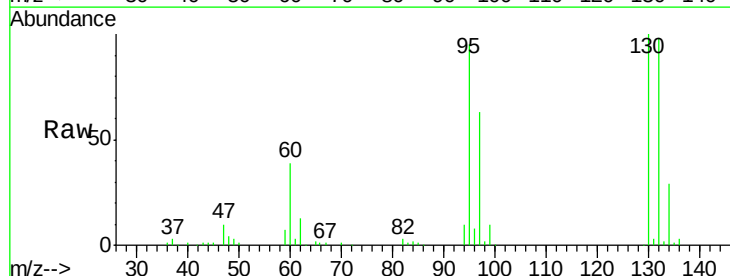
RT: 8.83 min Scan# 2196

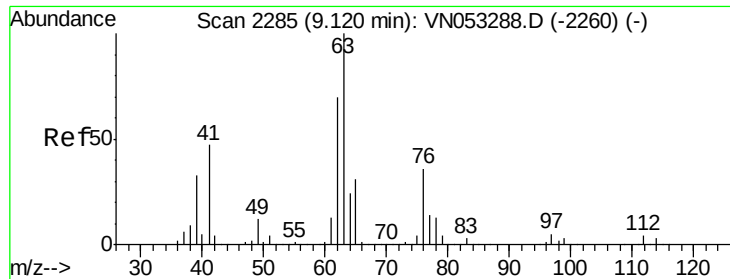
Delta R.T. -0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion:	130	Resp:	203704
Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	191.8





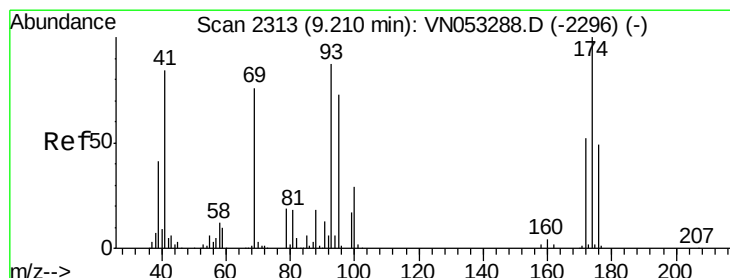
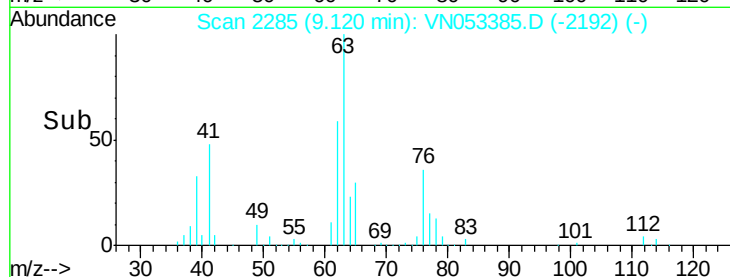
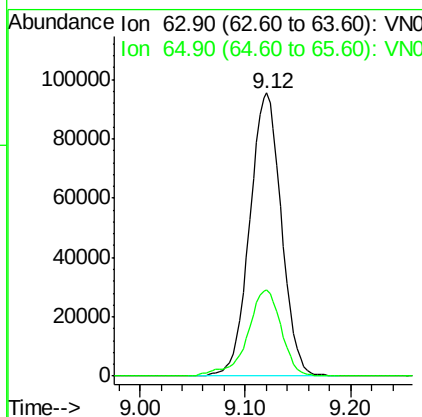
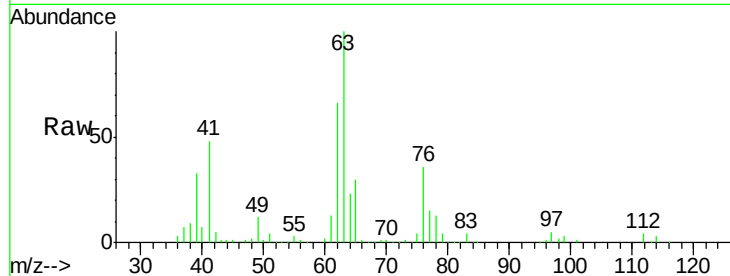
#45
 1,2-Dichloropropane
 Concen: 20.590 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
 MSVOA_N
 ClientSampled :
 VN0114WBS01

Tot Ion: 63 Resp: 199444
 Ion Ratio Lower Upper
 63 100
 65 30.4 25.0 37.6

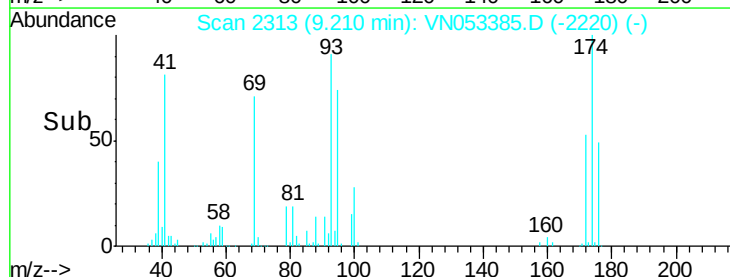
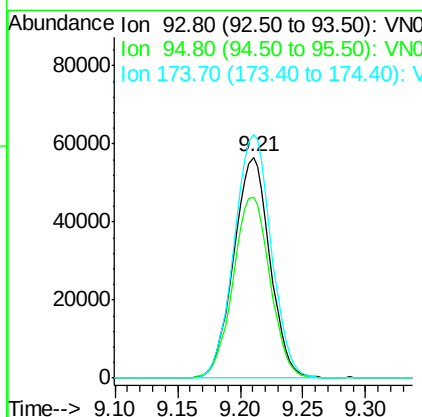
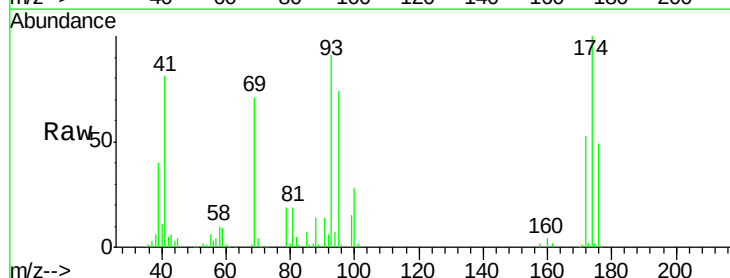
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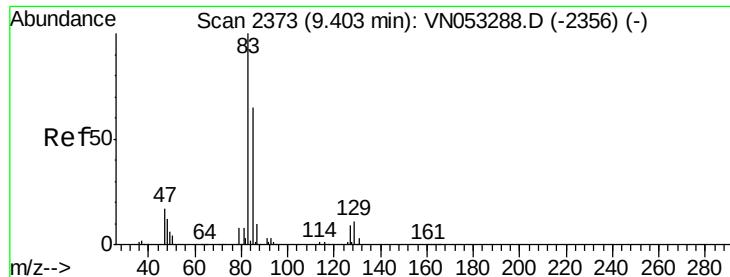
MMDadoda
 1/15/2019 11:14:14 AM



#46
 Dibromomethane
 Concen: 20.108 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion: 93 Resp: 113567
 Ion Ratio Lower Upper
 93 100
 95 83.3 66.6 100.0
 174 112.5 91.4 137.0





#47

Bromodichloromethane

Concen: 19.944 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

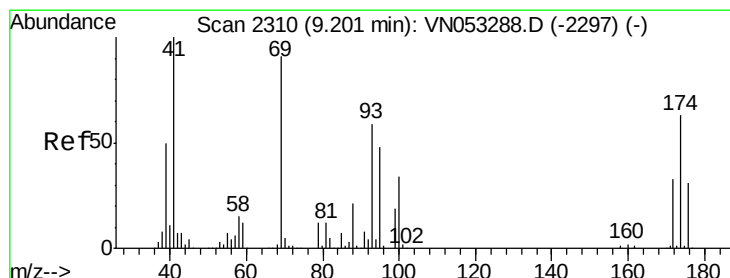
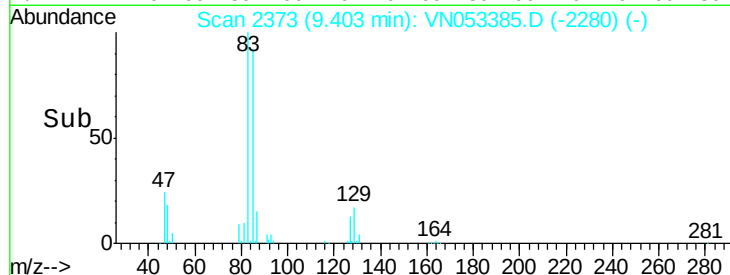
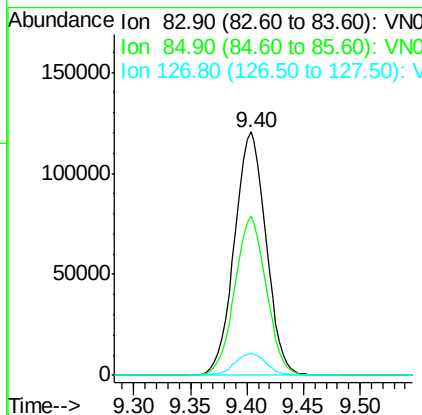
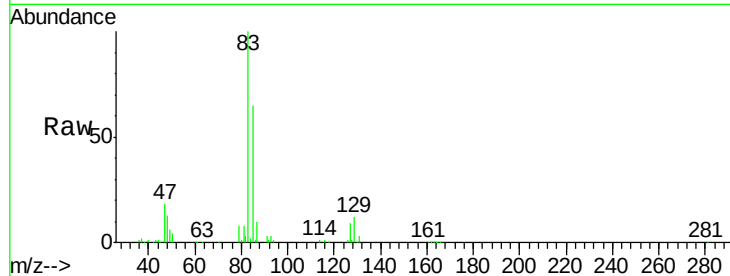
ClientSampleId :

VN0114WBS01

Tot Ion:	83	Resp:	234739
Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.7	77.5
127	9.0	7.0	10.6

Manual Integrations
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MMDadoda
1/15/2019 11:14:14 AM



#48

Methyl methacrylate

Concen: 19.181 ug/l

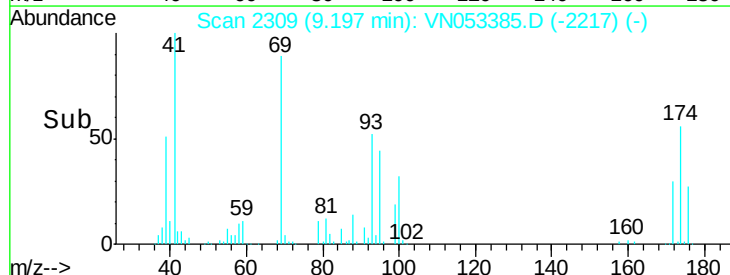
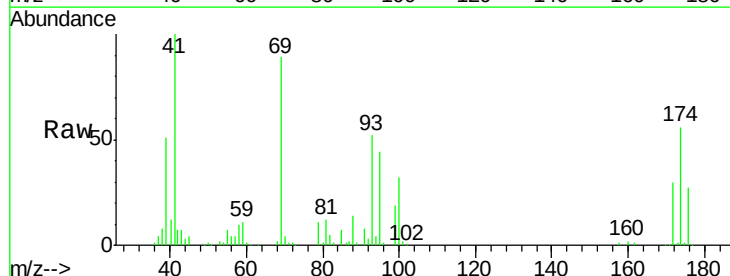
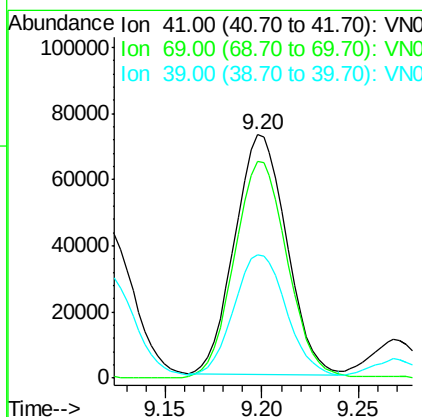
RT: 9.20 min Scan# 2309

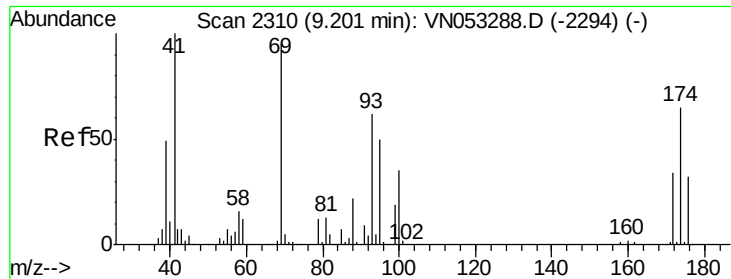
Delta R.T. -0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion:	41	Resp:	135009
Ion	Ratio	Lower	Upper
41	100		
69	92.9	73.5	110.3
39	53.4	41.6	62.4





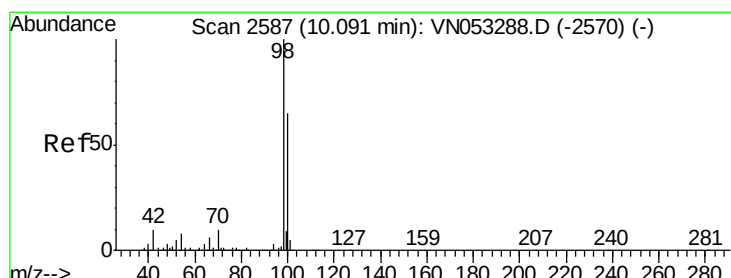
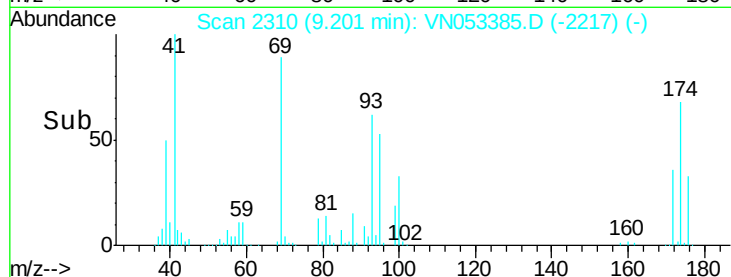
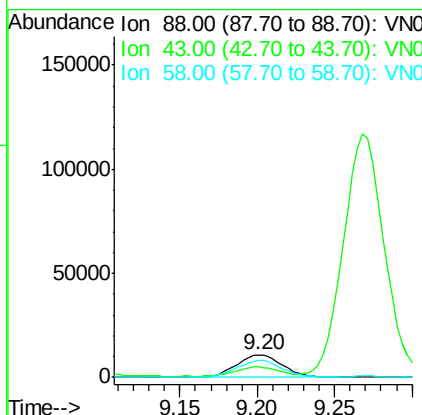
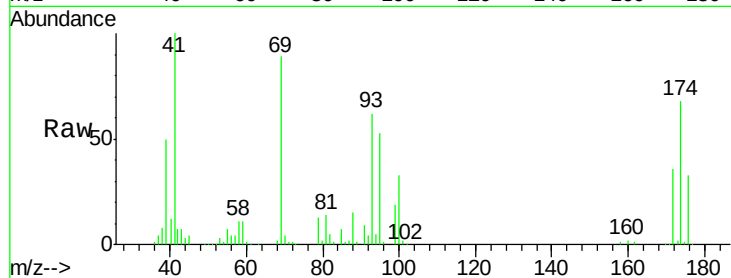
#49
1,4-Dioxane
Concen: 296.085 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	88	Resp	22204
Ion	Ratio	Lower	Upper
88	100		
43	39.1	26.2	39.4
58	74.8	55.5	83.3

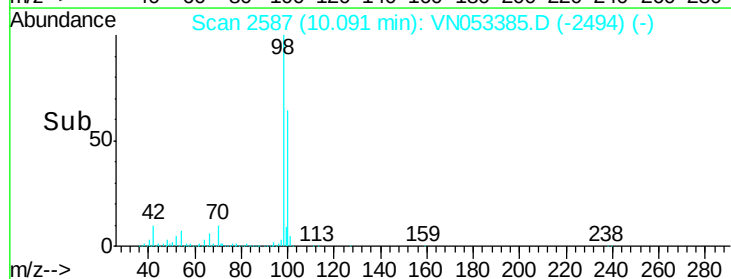
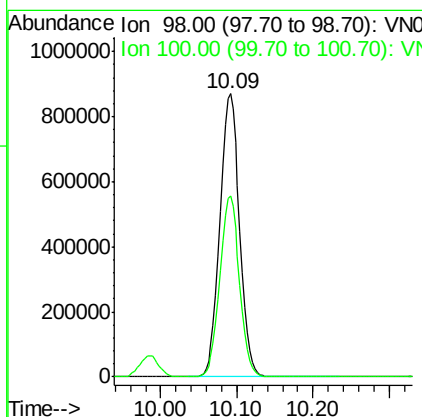
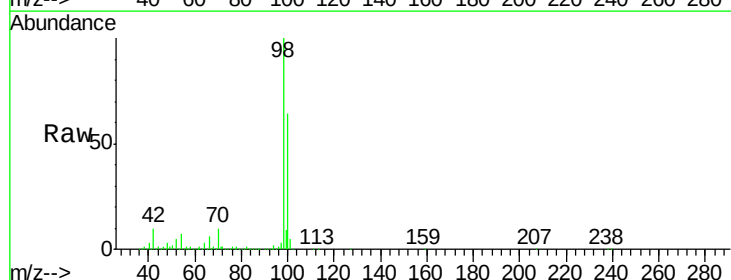
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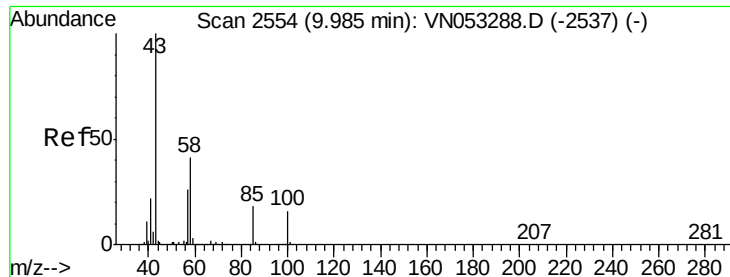
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#50
Toluene-d8
Concen: 296.085 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	98	Resp	1559616
Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.5	77.3





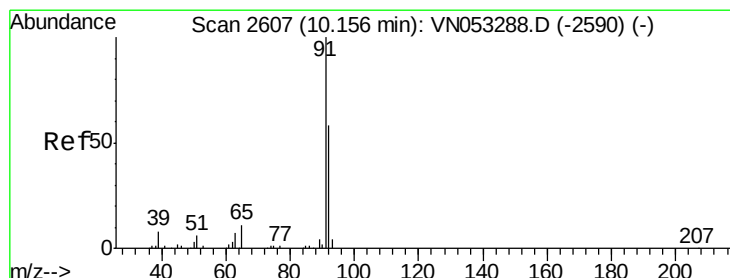
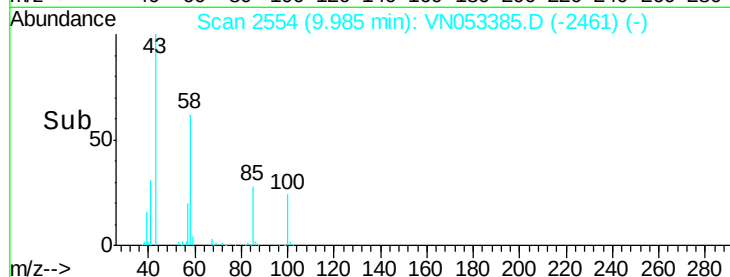
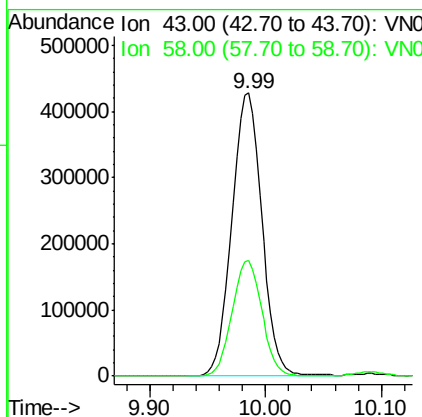
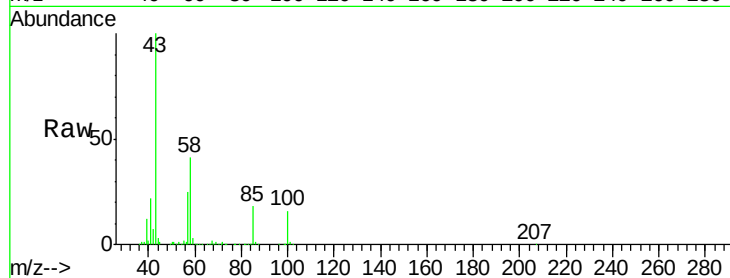
#51
4-Methyl-2-Pentanone
Concen: 98.022 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.7	32.7	49.1

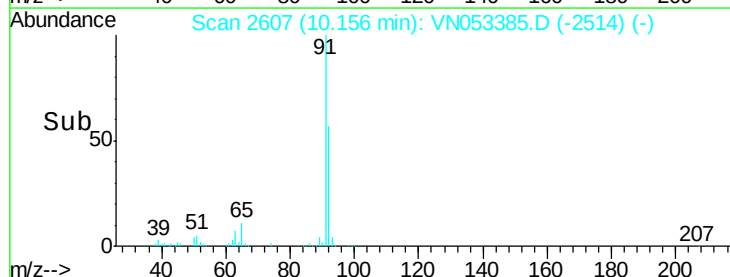
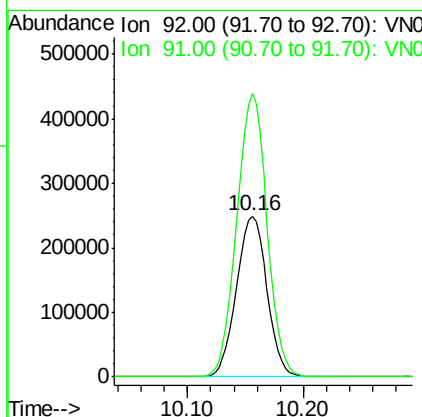
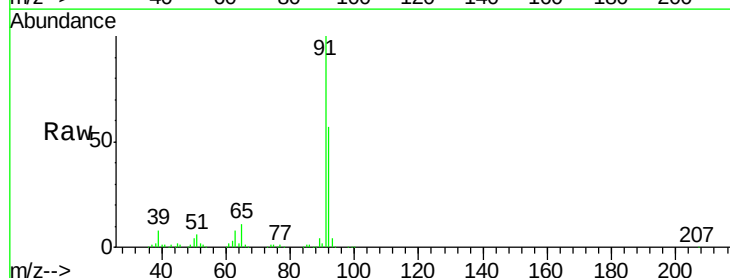
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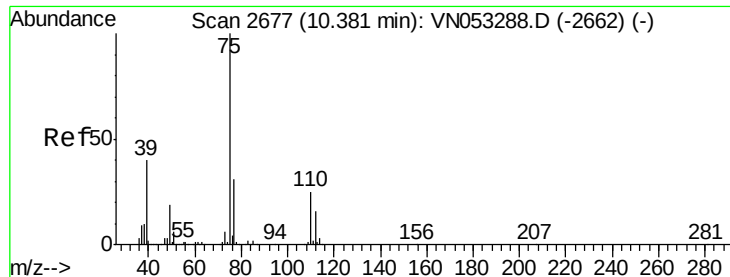
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#52
Toluene
Concen: 19.951 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.1	138.6	208.0





#53

t-1,3-Dichloropropene

Concen: 19.820 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampled :

VN0114WBS01

Tot Ion: 75 Resp: 238639

Ion Ratio Lower Upper

75 100

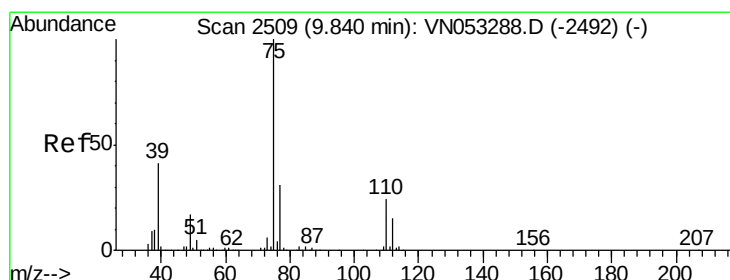
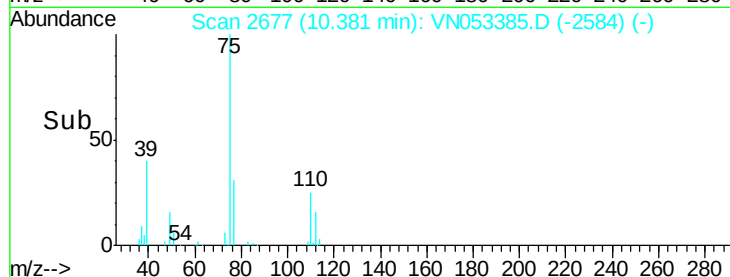
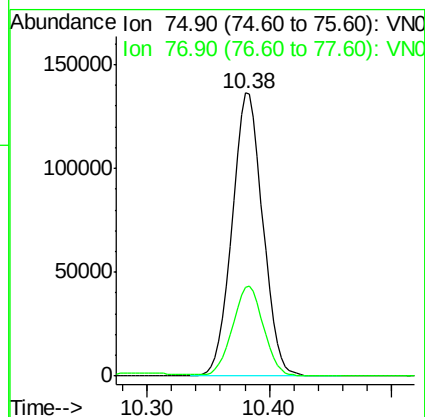
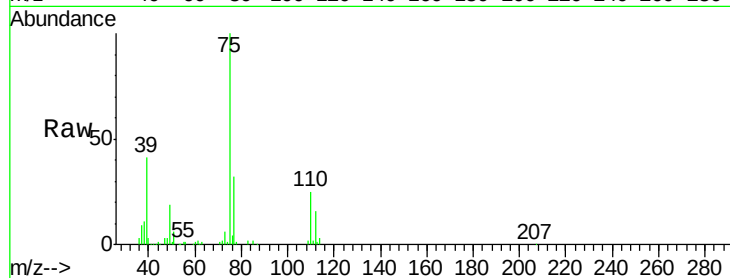
77 31.4 25.0 37.4

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.417 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

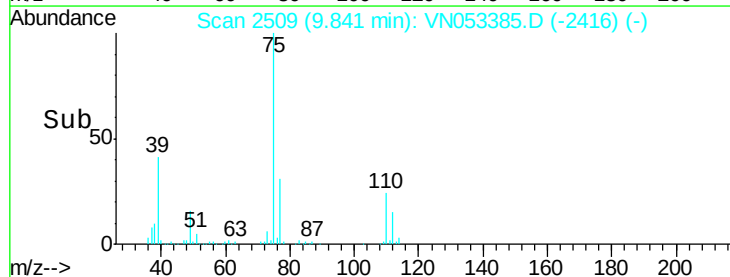
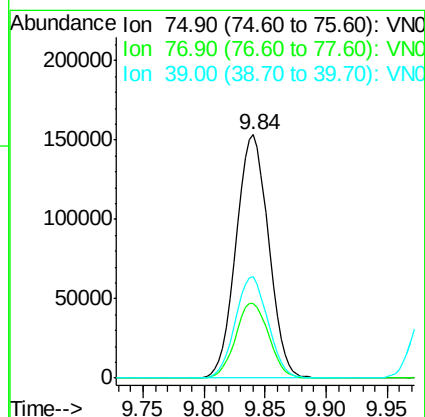
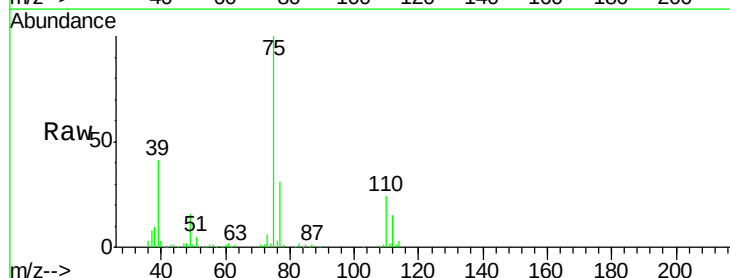
Tgt Ion: 75 Resp: 284072

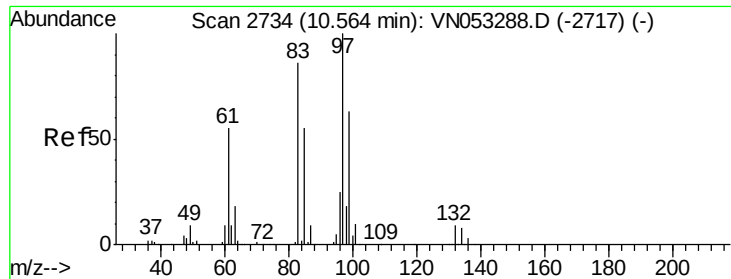
Ion Ratio Lower Upper

75 100

77 30.8 25.1 37.7

39 41.5 33.1 49.7





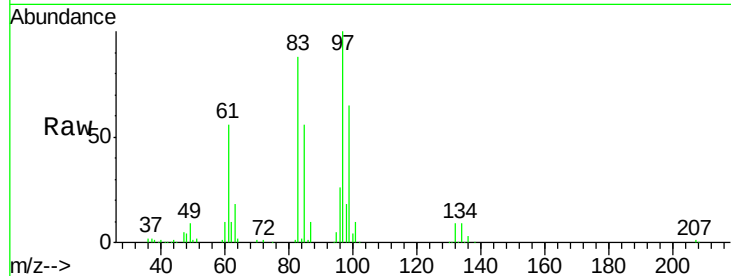
#55
 1,1,2-Trichloroethane
 Concen: 19.795 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0114WBS01

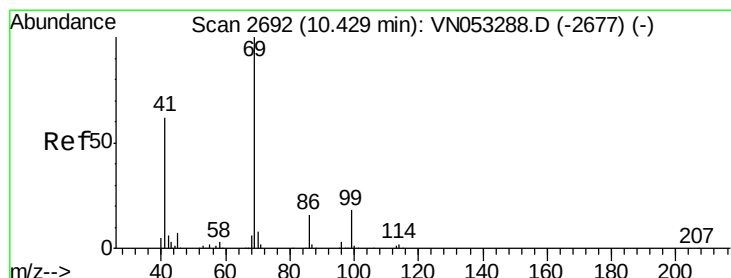
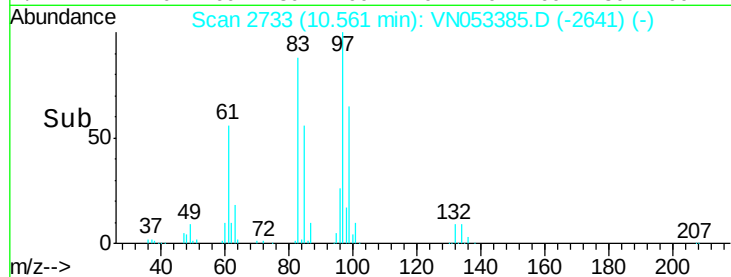
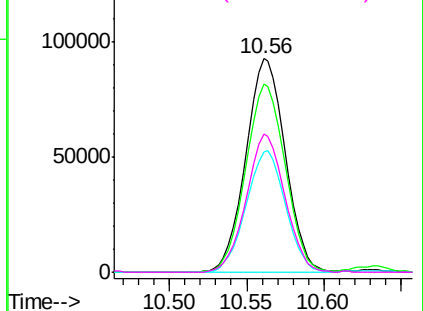
Tot Ion	Ratio	Resp	Lower	Upper
97	100	164915		
83	88.0	69.1	103.7	
85	56.1	44.2	66.4	
99	64.6	50.3	75.5	

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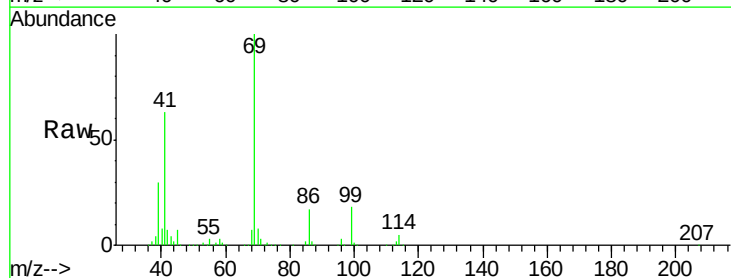


Abundance Ion 96.90 (96.60 to 97.60): VNO
 Ion 82.90 (82.60 to 83.60): VNO
 Ion 84.90 (84.60 to 85.60): VNO
 Ion 98.90 (98.60 to 99.60): VNO

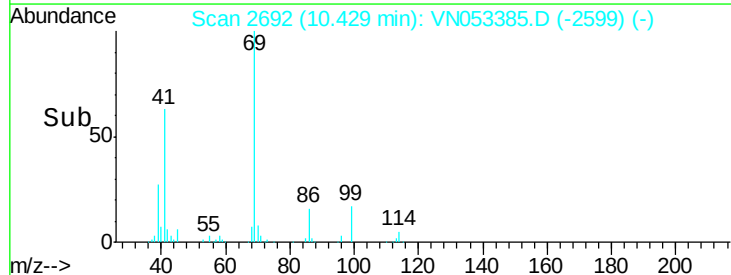
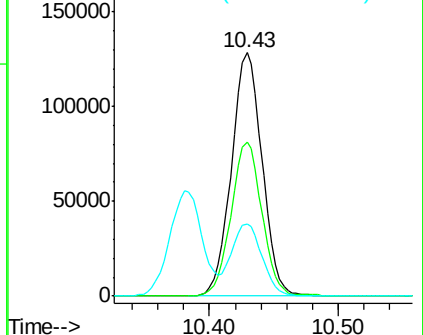


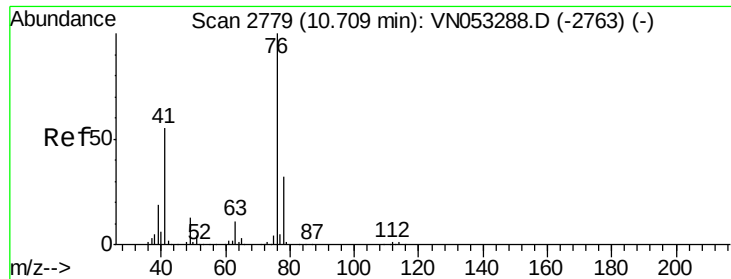
#56
 Ethyl methacrylate
 Concen: 19.637 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	212607		
41	62.8	49.2	73.8	
39	29.7	23.4	35.0	



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 20.368 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

VN0114WBS01

Tot Ion: 76 Resp: 283782

Ion Ratio Lower Upper

76 100

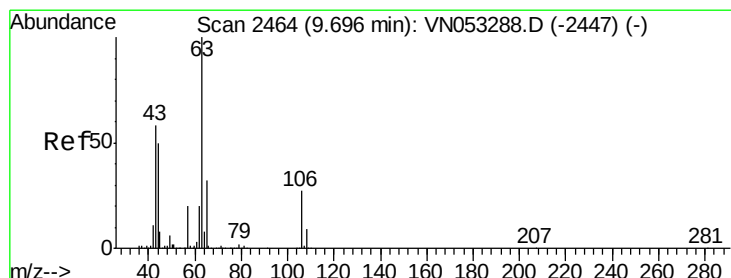
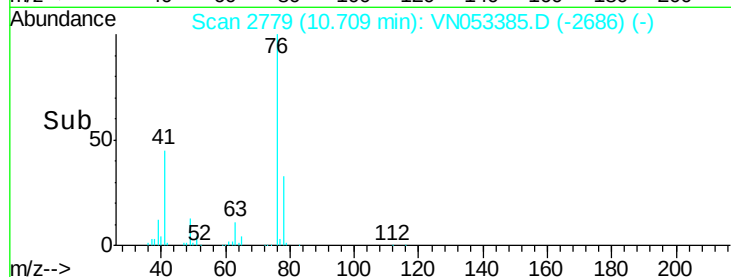
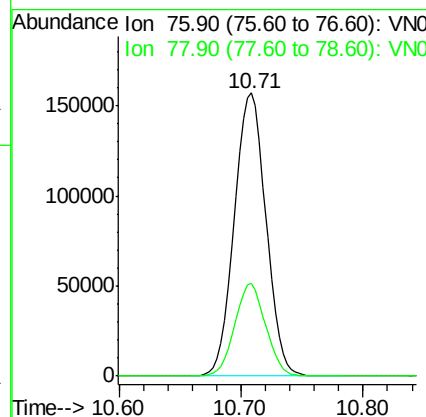
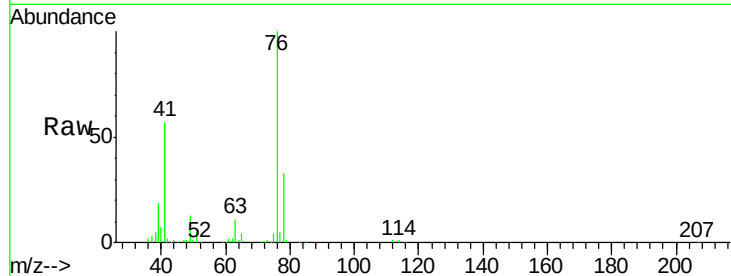
78 31.8 25.8 38.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 97.513 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053385.D

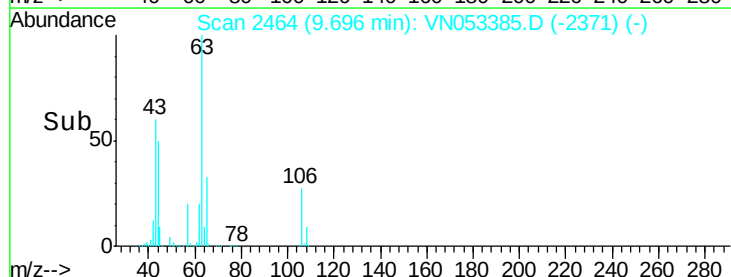
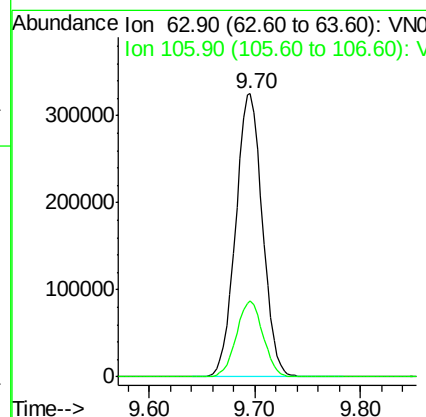
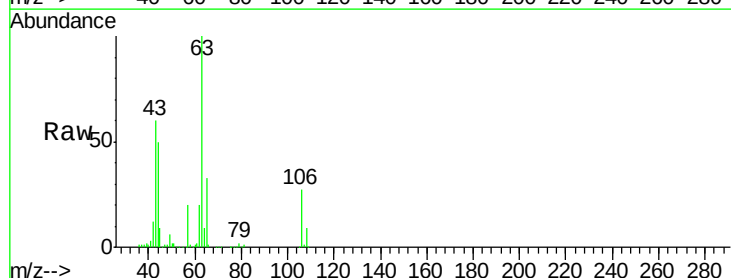
Acq: 14 Jan 2019 12:24

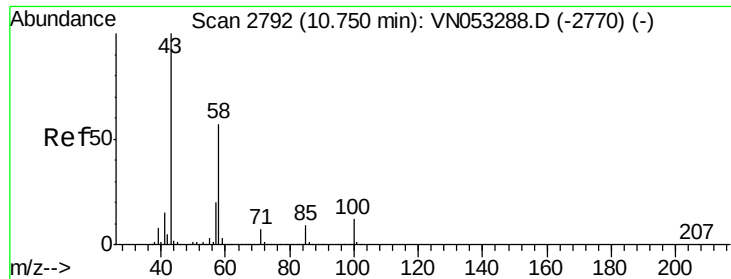
Tgt Ion: 63 Resp: 570758

Ion Ratio Lower Upper

63 100

106 26.7 21.7 32.5





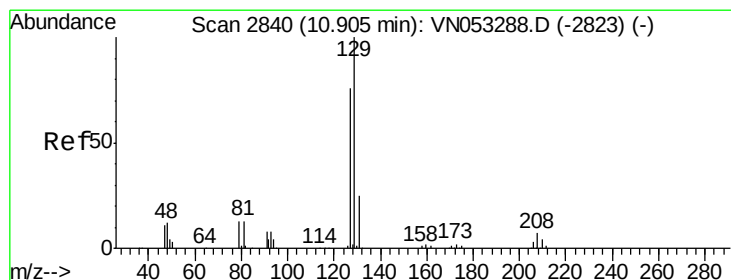
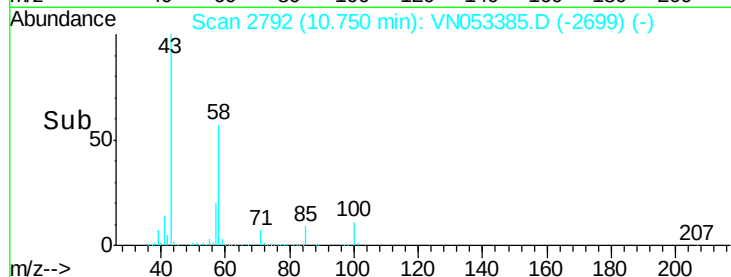
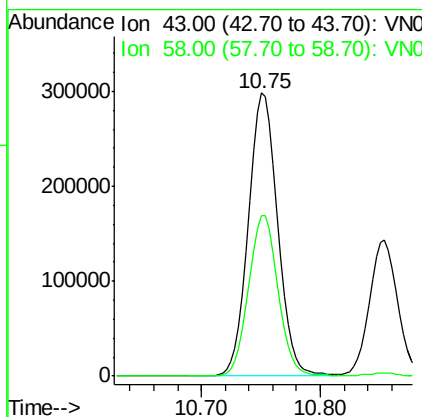
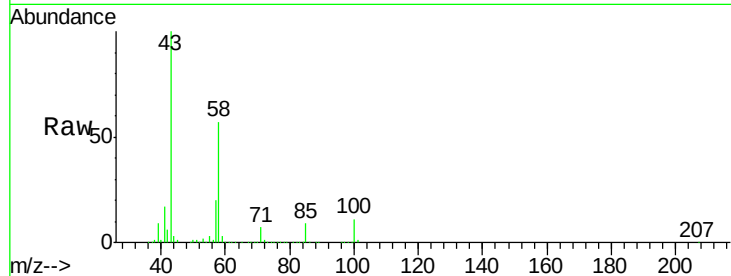
#59
2-Hexanone
Concen: 95.268 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion: 43 Resp: 508561
Ion Ratio Lower Upper
43 100
58 57.2 28.3 85.0

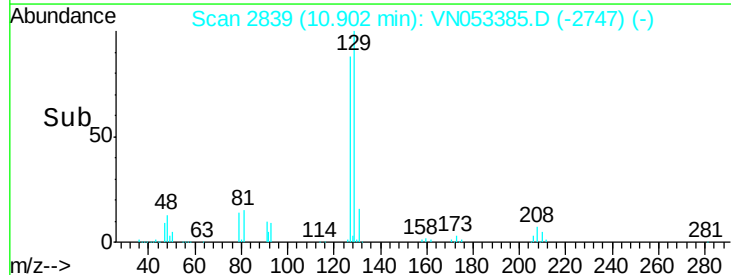
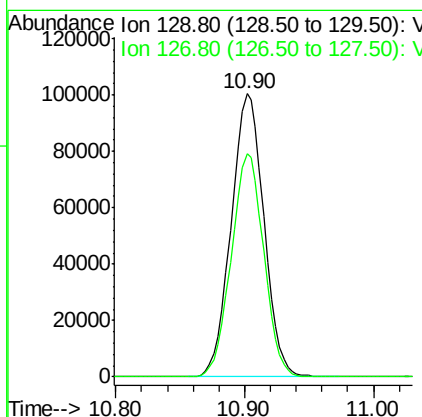
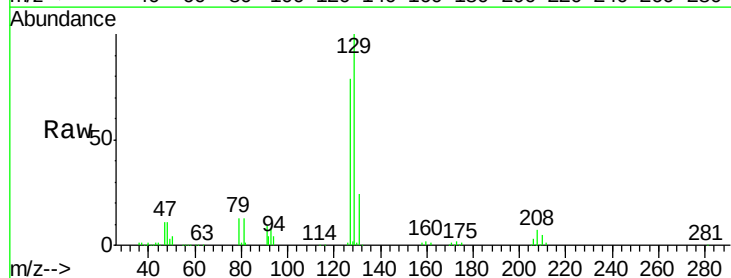
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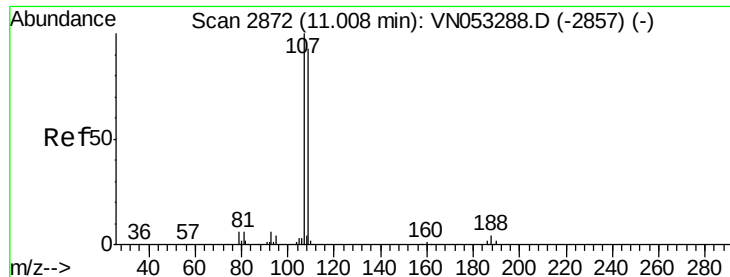
MMDadoda
1/15/2019 11:14:14 AM



#60
Dibromochloromethane
Concen: 19.679 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion: 129 Resp: 176838
Ion Ratio Lower Upper
129 100
127 78.3 38.4 115.2





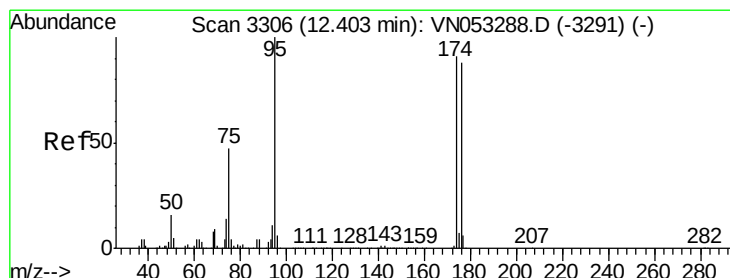
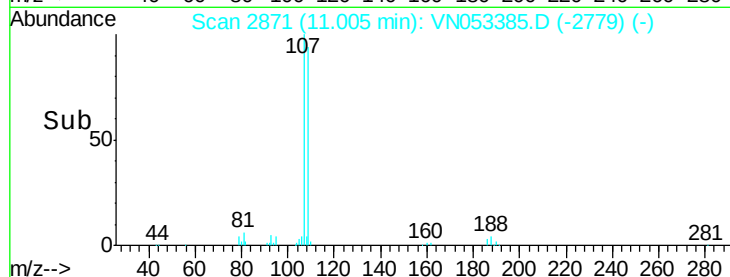
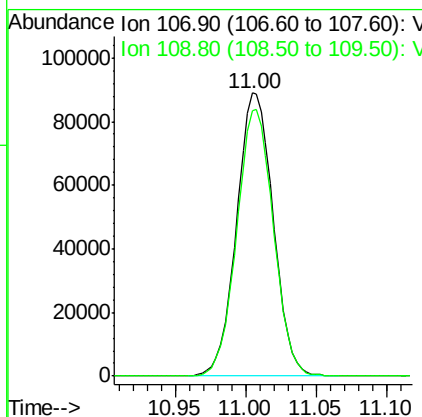
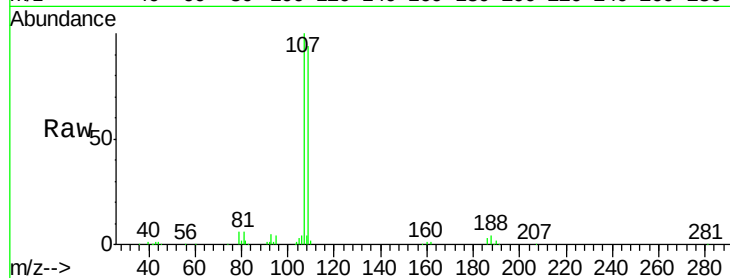
#61
 1,2-Dibromoethane
 Concen: 19.672 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0114WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.0	112.6

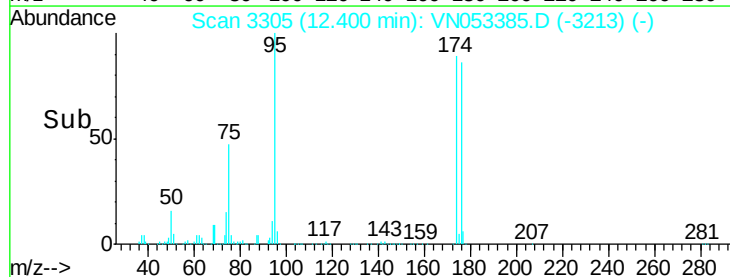
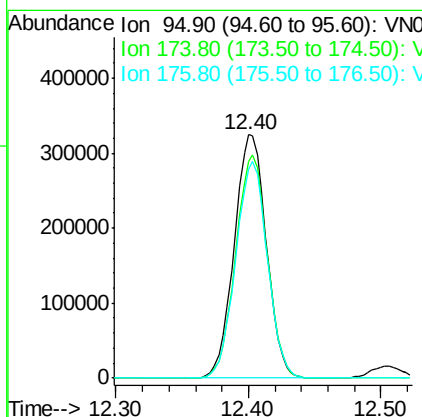
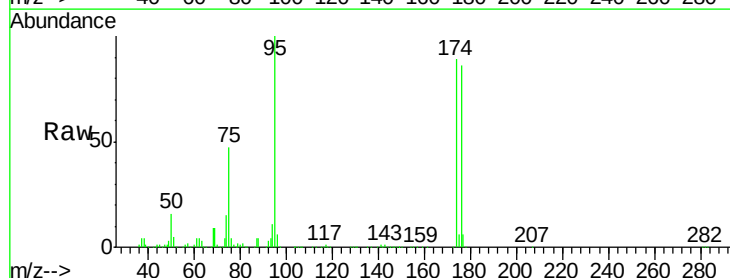
Manual Integrations
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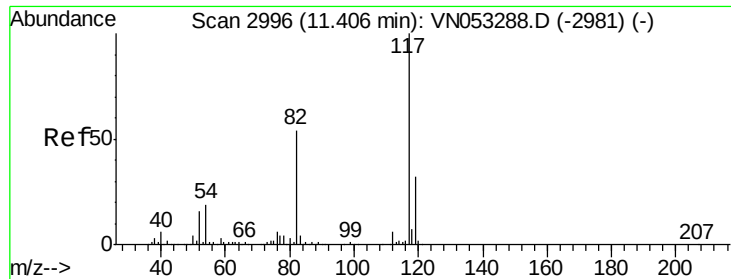
MMDadoda
 1/15/2019 11:14:14 AM



#62
 4-Bromofluorobenzene
 Concen: 19.672 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.5	0.0	180.4
176	87.8	0.0	175.6





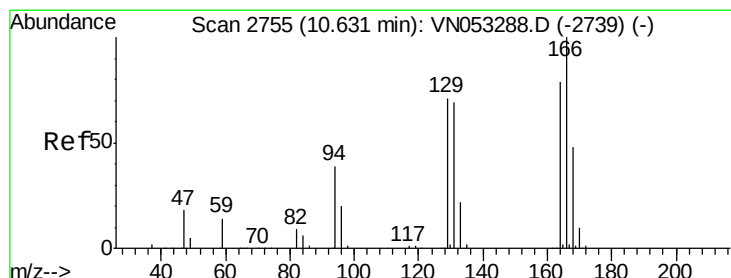
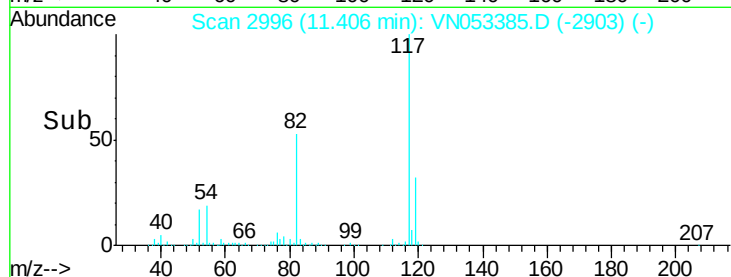
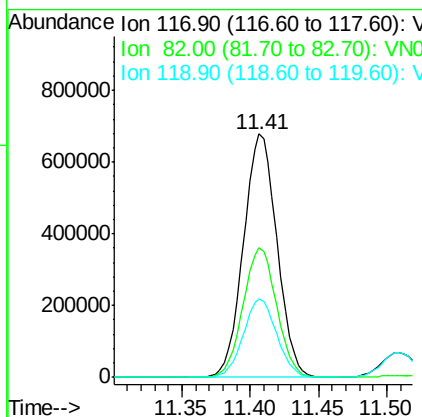
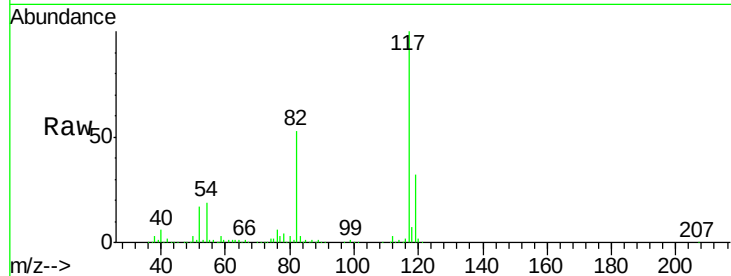
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.9	64.3
119	32.2	25.6	38.4

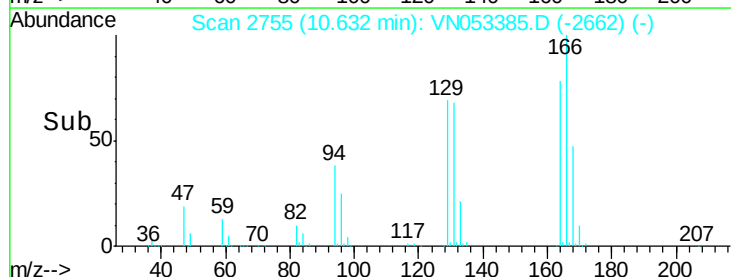
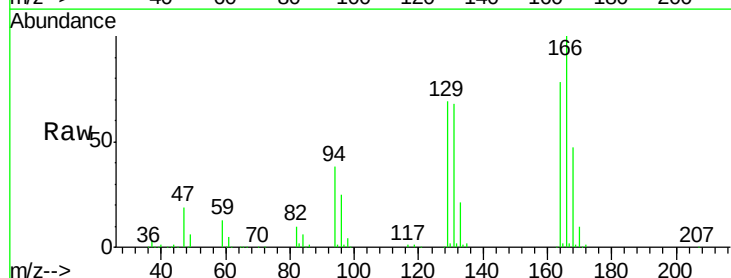
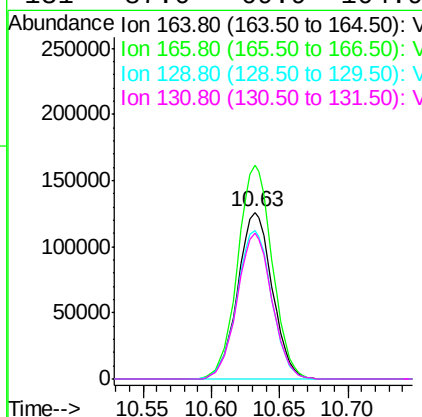
Manual Integrations
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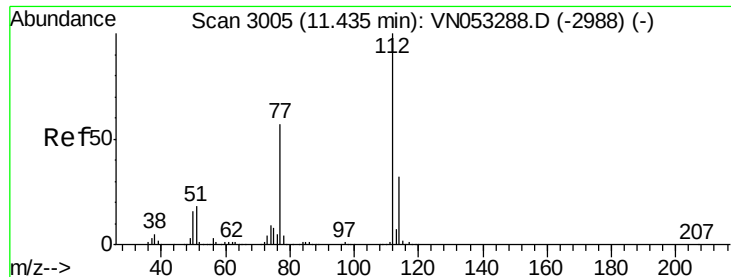
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#64
Tetrachloroethene
Concen: 20.370 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.8	101.7	152.5
129	88.8	72.1	108.1
131	87.0	69.9	104.9





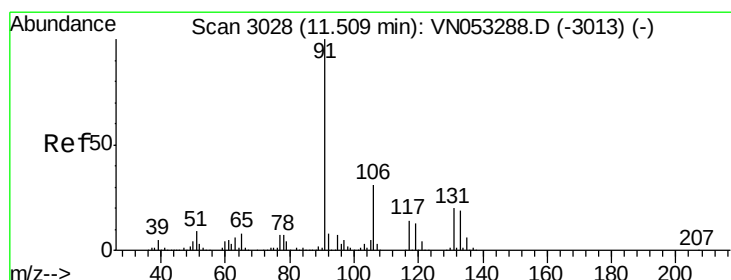
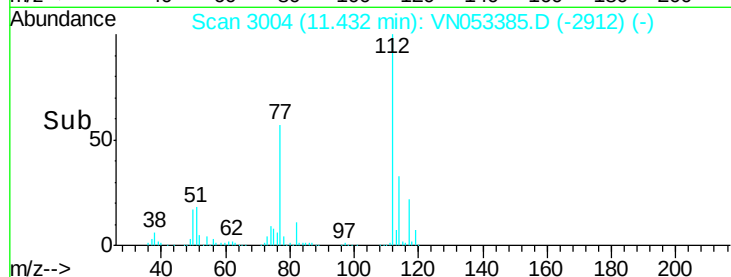
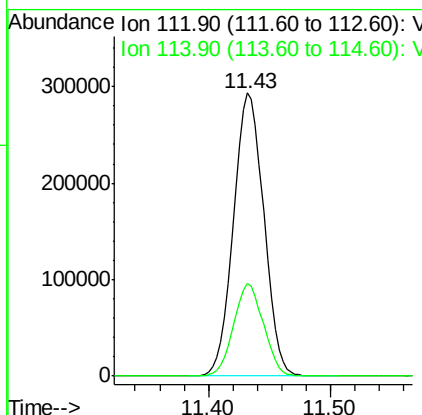
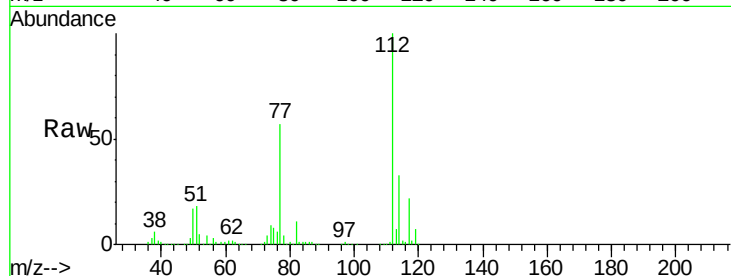
#65
Chlorobenzene
Concen: 20.170 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion:112 Resp: 505749
Ion Ratio Lower Upper
112 100
114 32.6 25.6 38.4

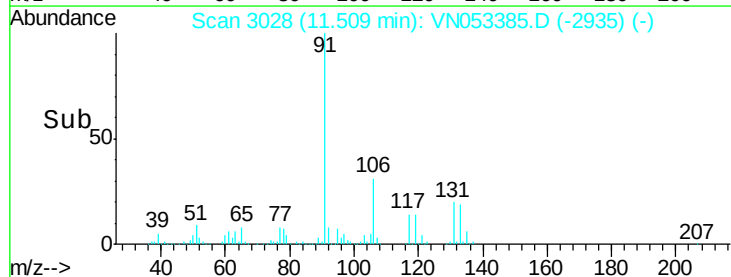
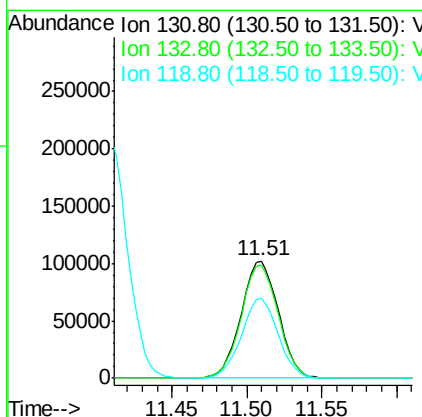
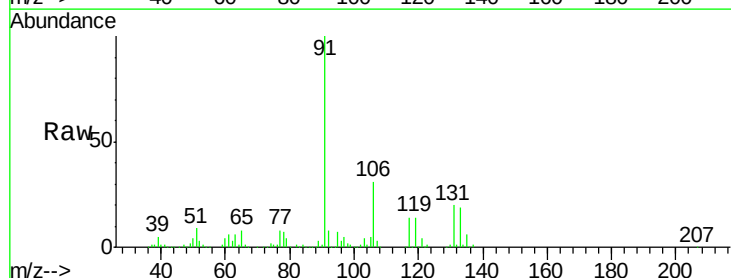
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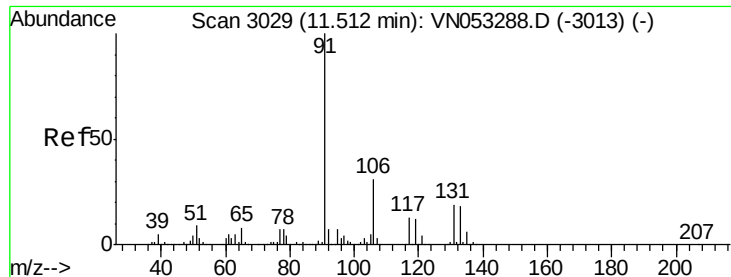
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.161 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion:131 Resp: 176943
Ion Ratio Lower Upper
131 100
133 96.1 48.0 144.0
119 67.0 33.3 99.9





#67

Ethyl Benzene

Concen: 20.144 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

VN0114WBS01

Tot Ion: 91 Resp: 858282

Ion Ratio Lower Upper

91 100

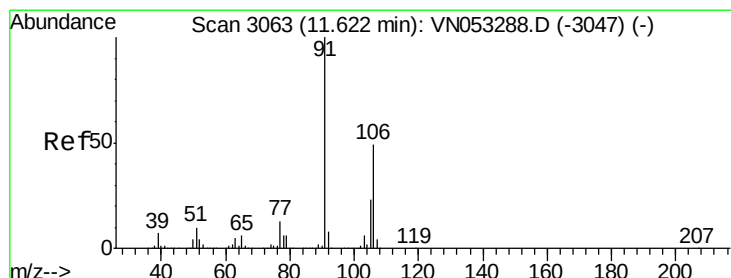
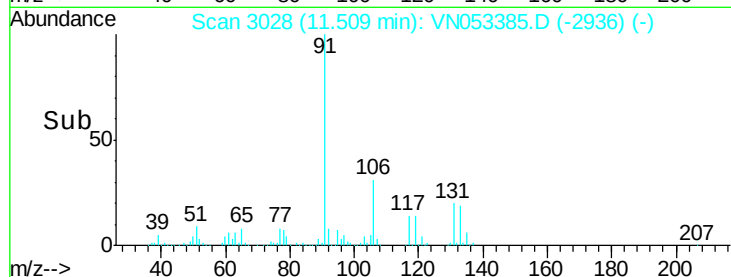
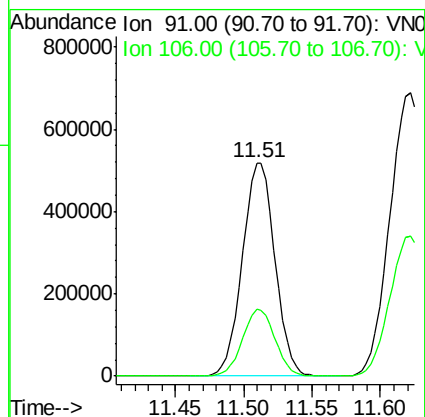
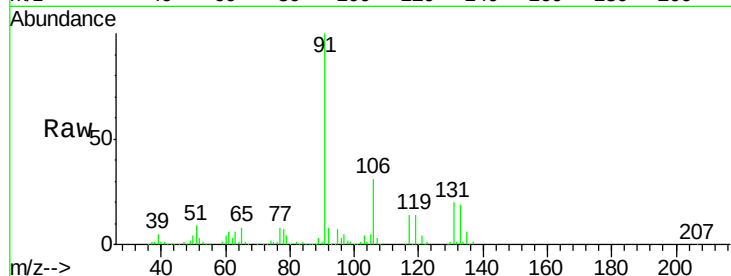
106 31.2 25.0 37.4

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#68

m/p-Xylenes

Concen: 40.828 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053385.D

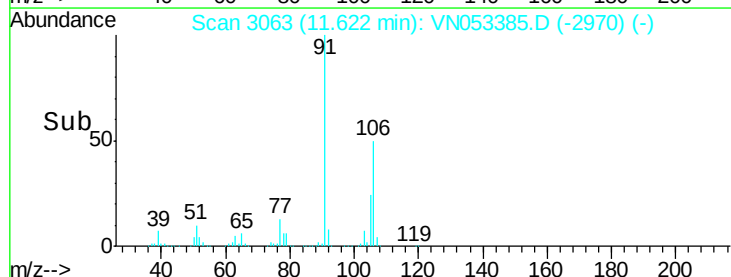
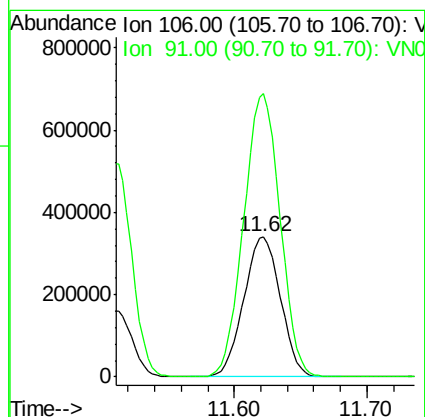
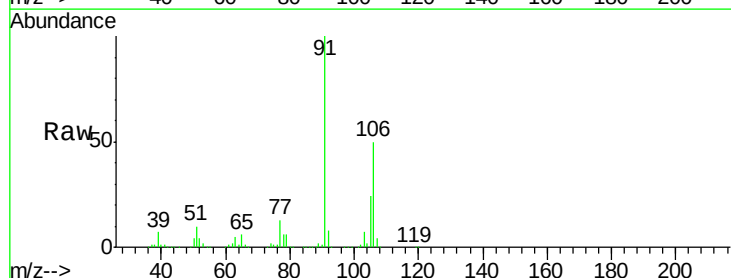
Acq: 14 Jan 2019 12:24

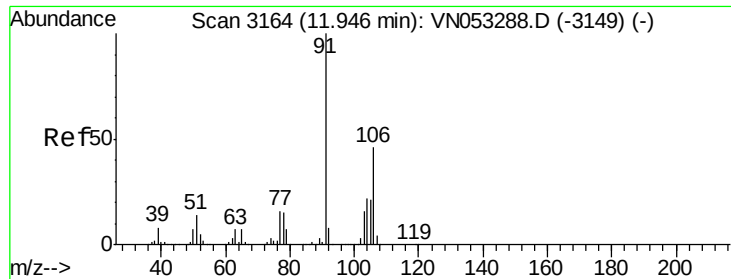
Tgt Ion: 106 Resp: 654120

Ion Ratio Lower Upper

106 100

91 201.2 161.4 242.2





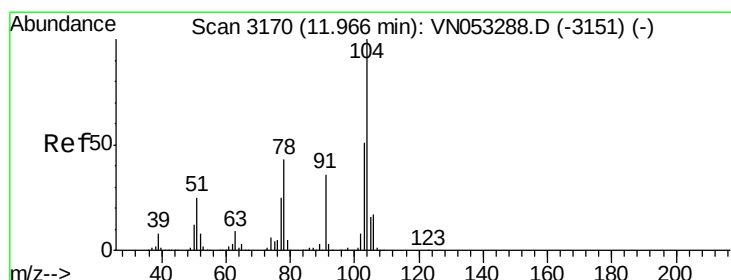
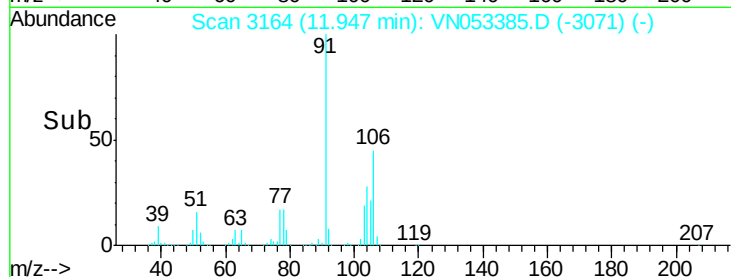
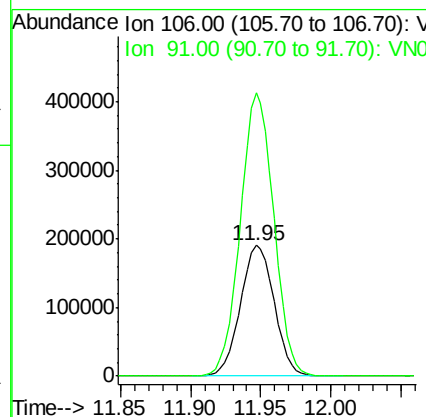
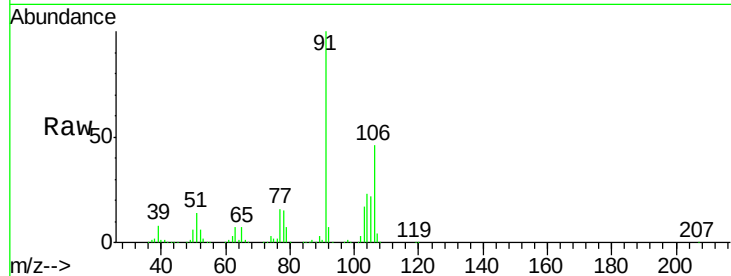
#69
o-Xylene
Concen: 20.456 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		320849		
91	213.6	106.8	320.4		

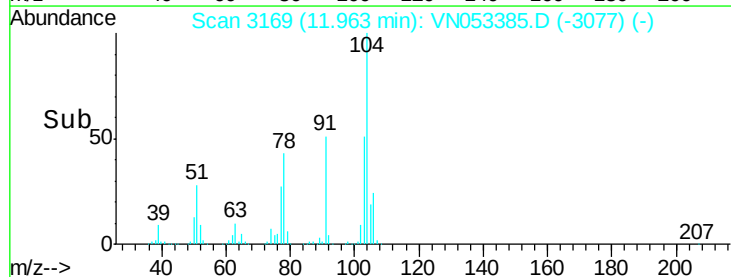
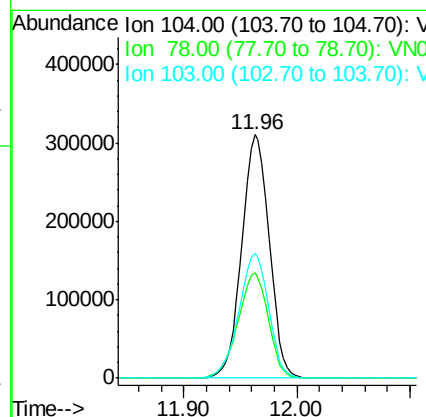
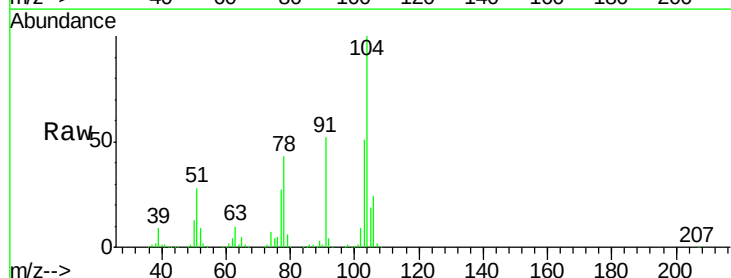
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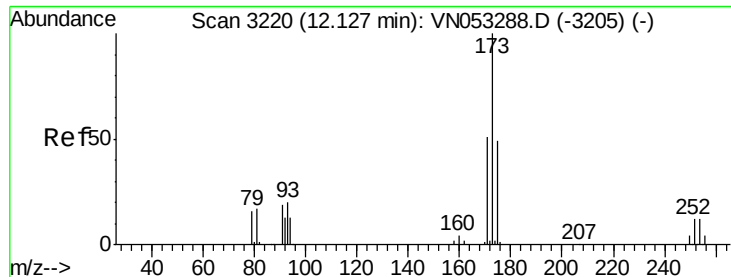
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#70
Styrene
Concen: 20.634 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		526730		
78	47.5	38.5	57.7		
103	55.4	44.5	66.7		





#71

Bromoform

Concen: 19.531 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

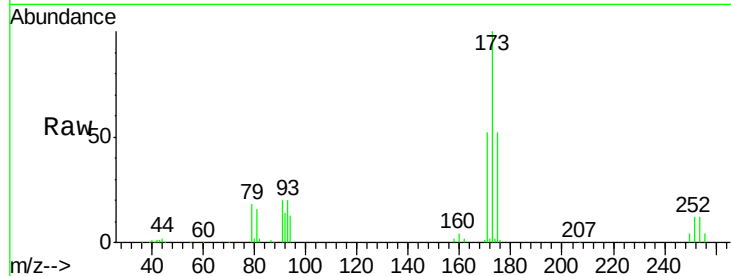
ClientSampleId :

VN0114WBS01

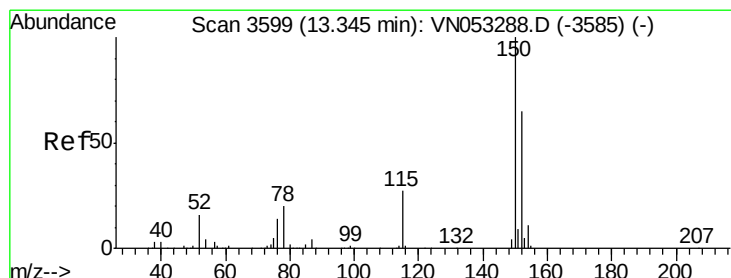
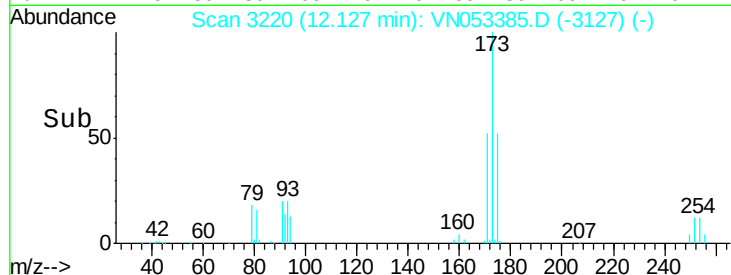
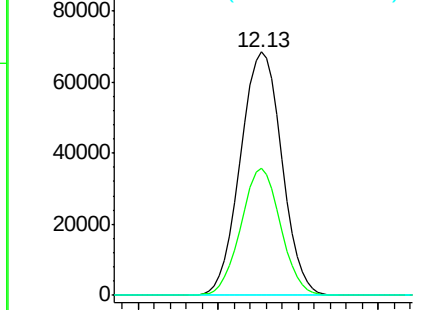
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.3	72.8
254	0.0	0.2	0.2

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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

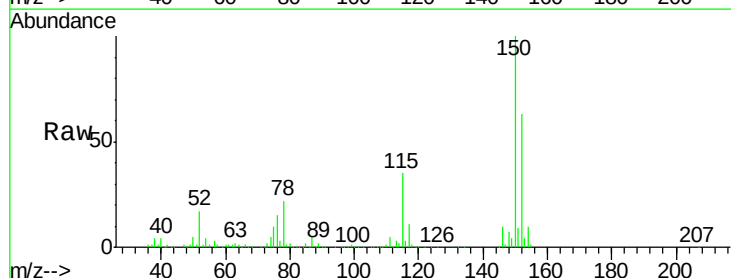
RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

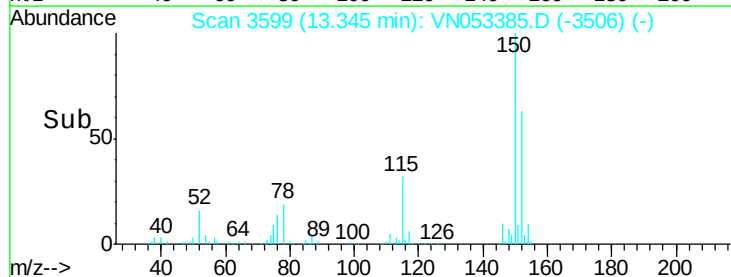
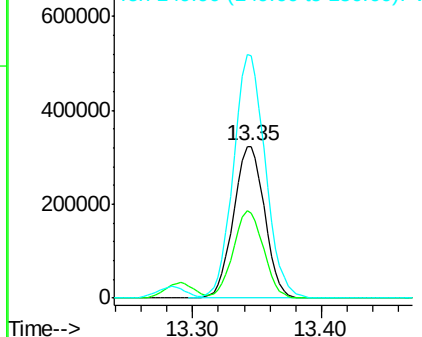
Lab File: VN053385.D

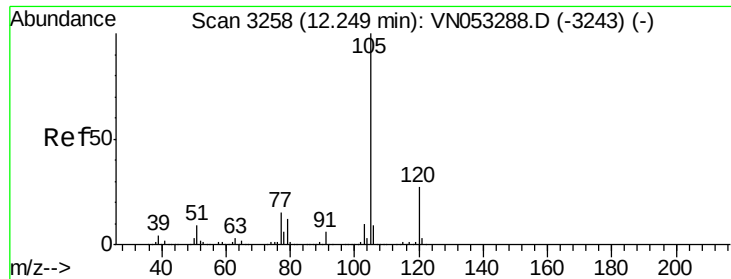
Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.0	84.0
150	164.7	0.0	346.6



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





#73

Isopropylbenzene

Concen: 21.143 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

VN0114WBS01

Tot Ion:105 Resp: 849387

Ion Ratio Lower Upper

105 100

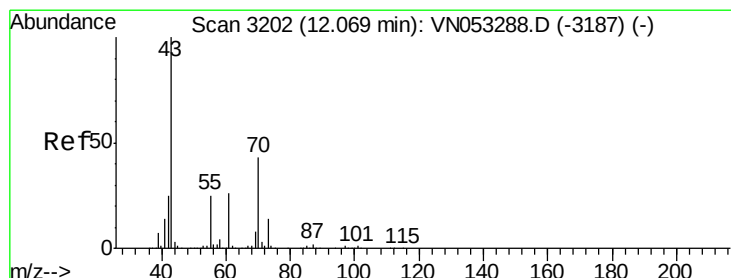
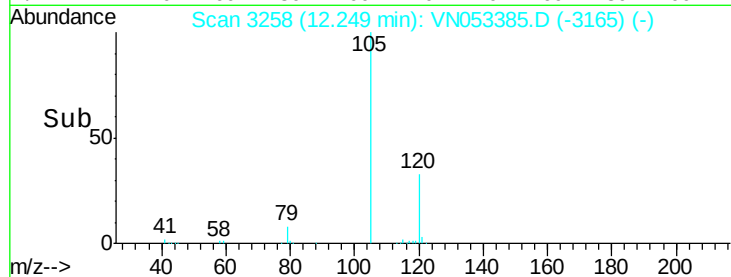
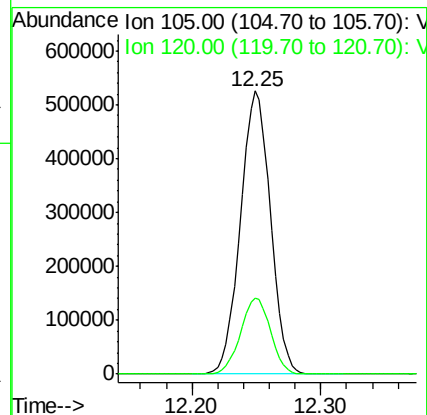
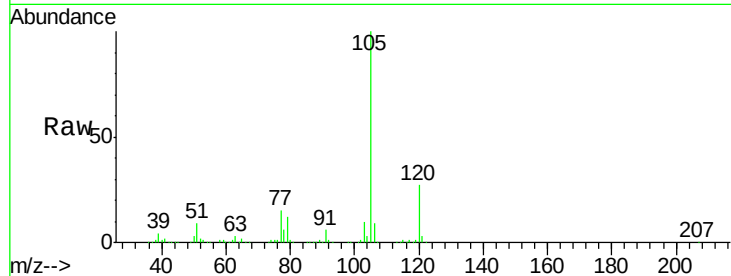
120 26.9 13.4 40.2

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#74

N-ethyl acetate

Concen: 19.968 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion: 43 Resp: 239540

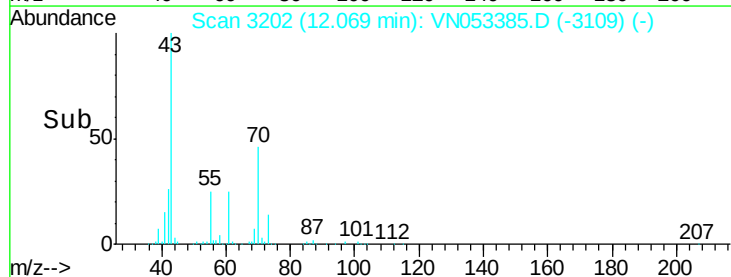
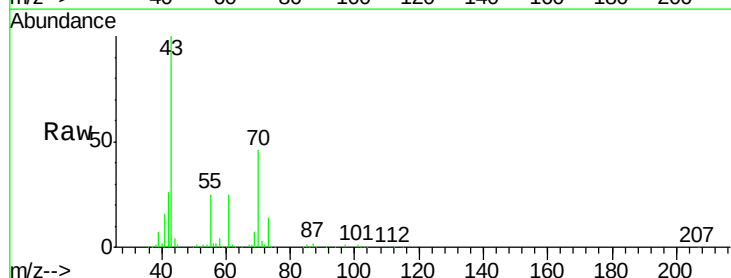
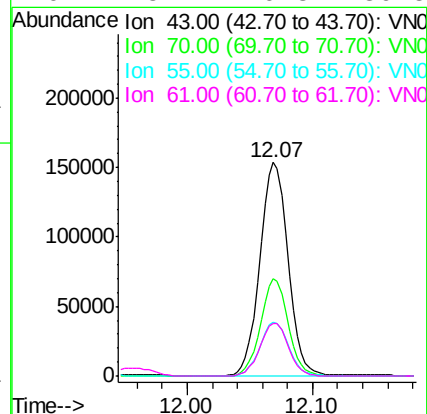
Ion Ratio Lower Upper

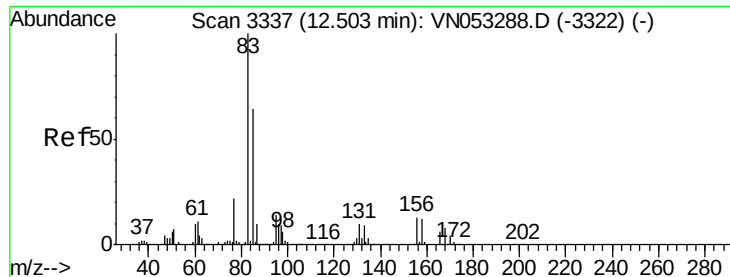
43 100

70 44.8 35.0 52.6

55 25.8 20.0 30.0

61 25.2 20.3 30.5





#75

1,1,2,2-Tetrachloroethane

Concen: 20.344 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

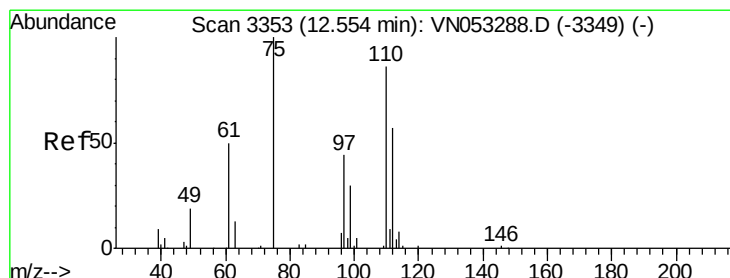
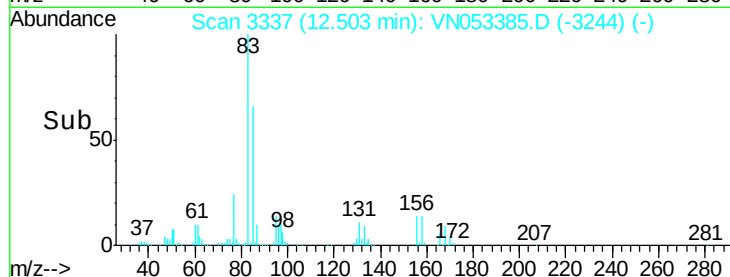
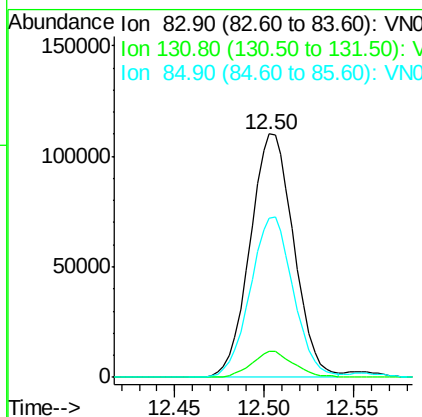
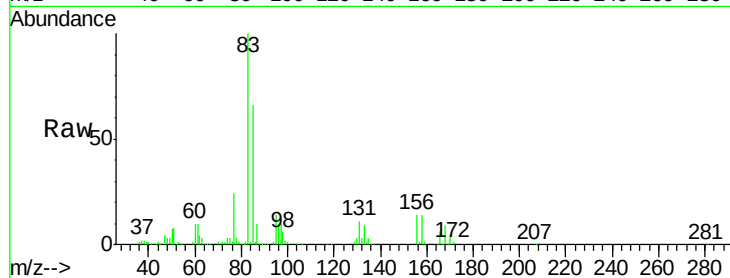
ClientSampleId :

VN0114WBS01

Tot Ion:	83	Resp:	188000
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.3	15.9
85	65.1	32.3	96.8

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#76

1,2,3-Trichloropropane

Concen: 23.035 ug/l m

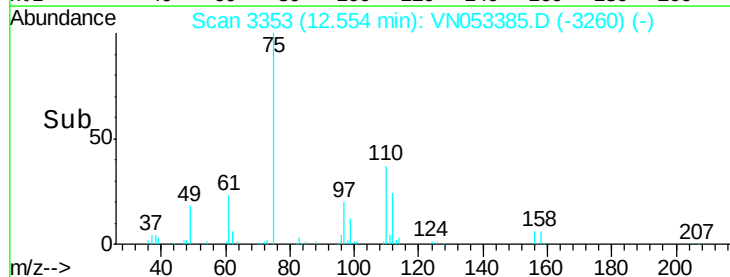
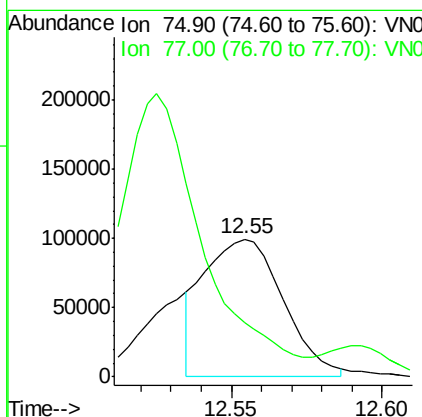
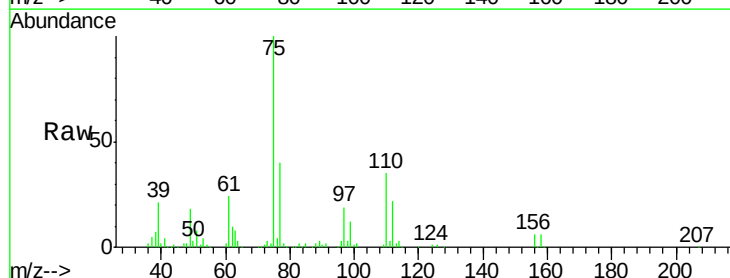
RT: 12.55 min Scan# 3353

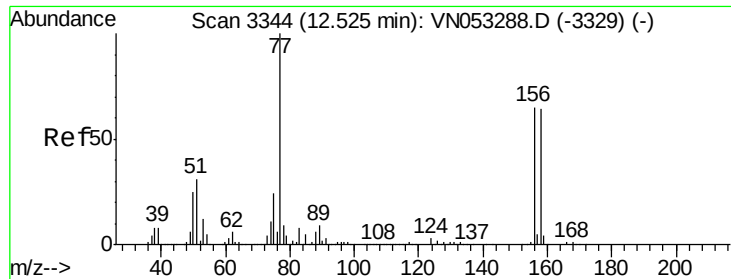
Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion:	75	Resp:	181289
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.782 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

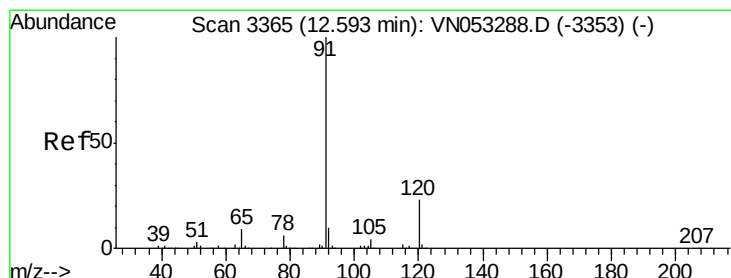
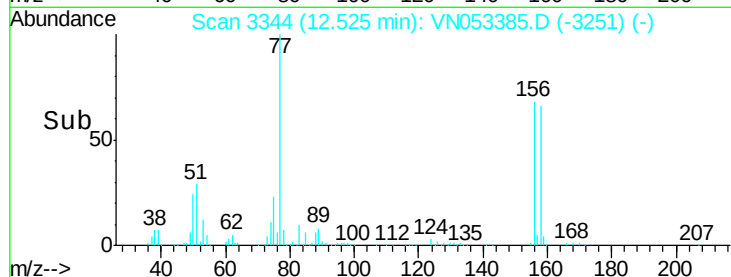
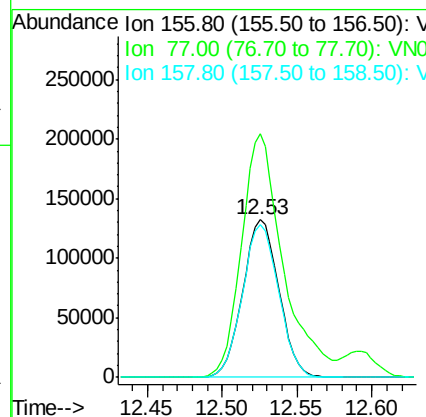
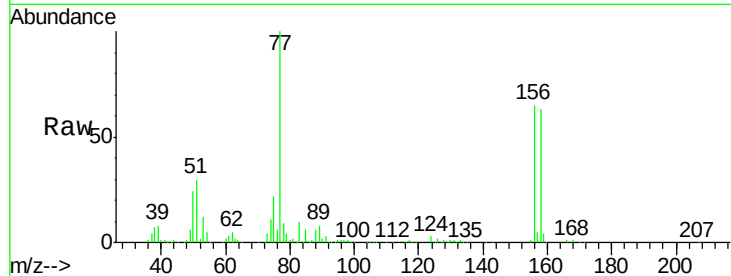
ClientSampled :

VN0114WBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	177.4	89.3	268.1
158	97.3	48.9	146.8

Manual Integrations
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#78

n-propylbenzene

Concen: 21.337 ug/l

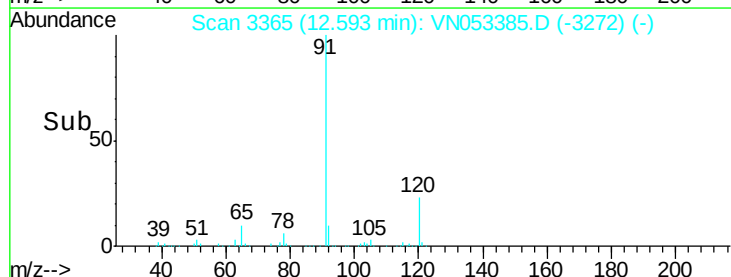
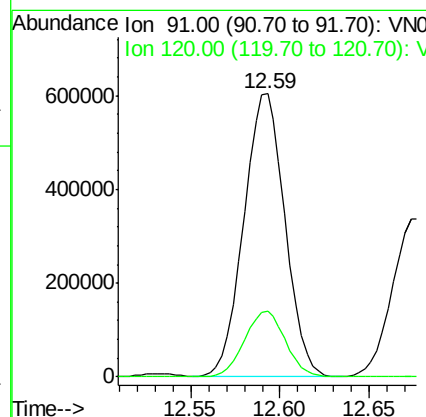
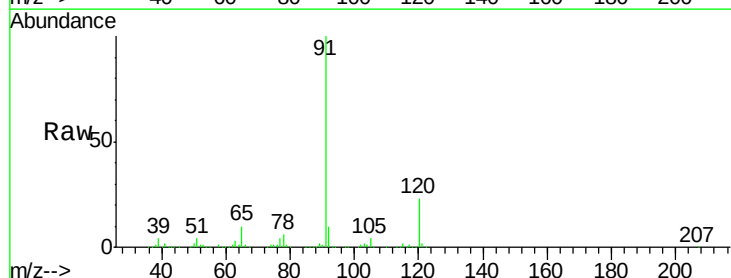
RT: 12.59 min Scan# 3365

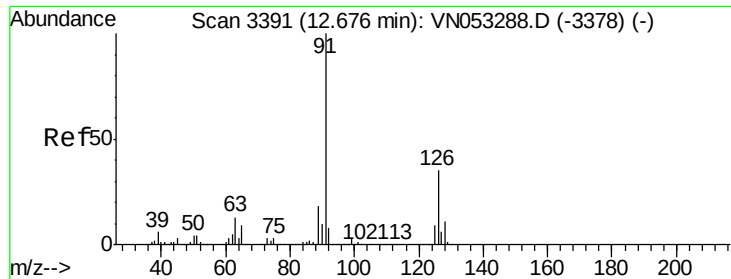
Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.5	34.5





#79

2-Chlorotoluene

Concen: 20.720 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampled :

VN0114WBS01

Tot Ion: 91 Resp: 569719

Ion Ratio Lower Upper

91 100

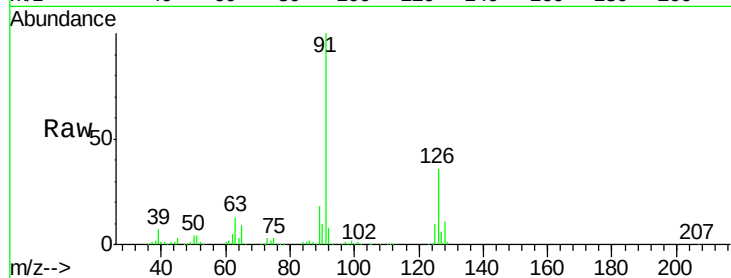
126 35.5 17.5 52.5

Manual Integrations

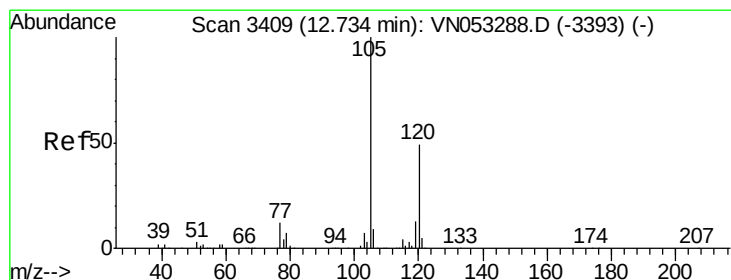
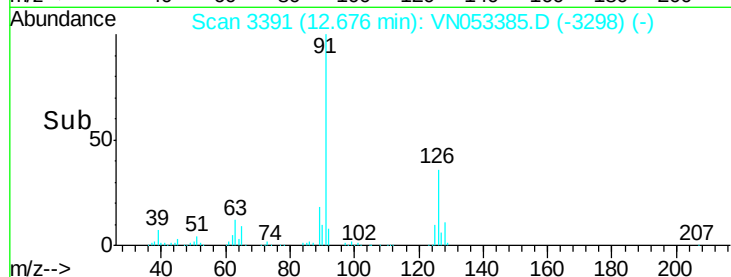
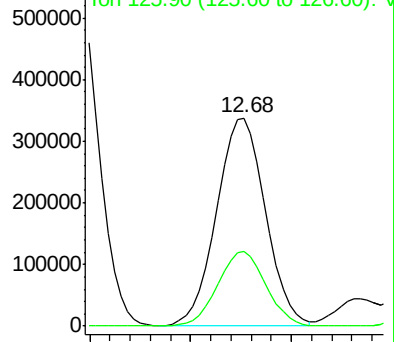
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Abundance Ion 91.00 (90.70 to 91.70): VN053385.D (-3391) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.533 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053385.D

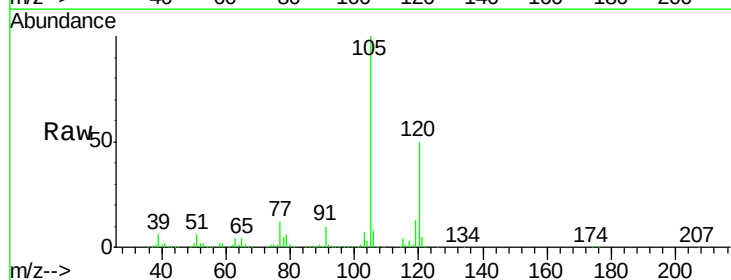
Acq: 14 Jan 2019 12:24

Tgt Ion: 105 Resp: 696812

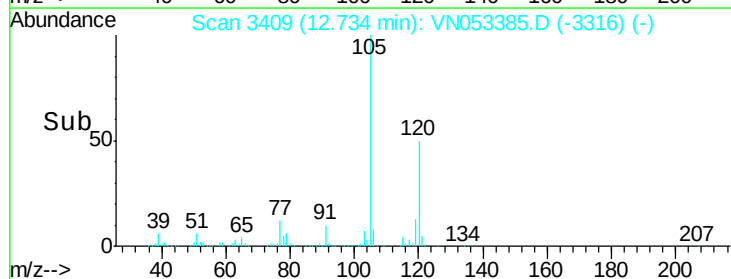
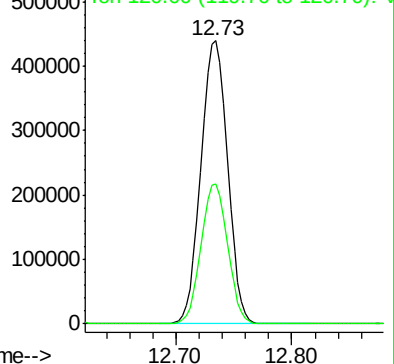
Ion Ratio Lower Upper

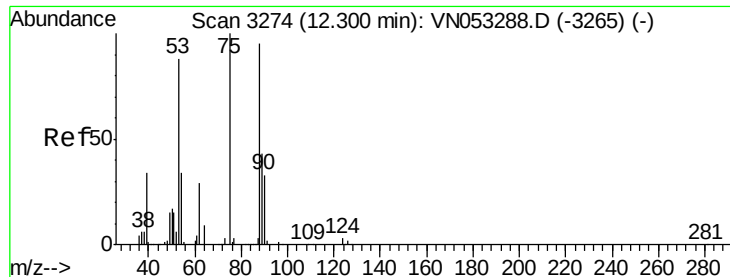
105 100

120 49.1 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN053385.D (-3409) (-)





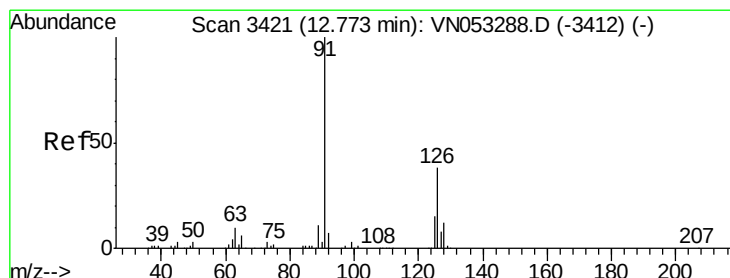
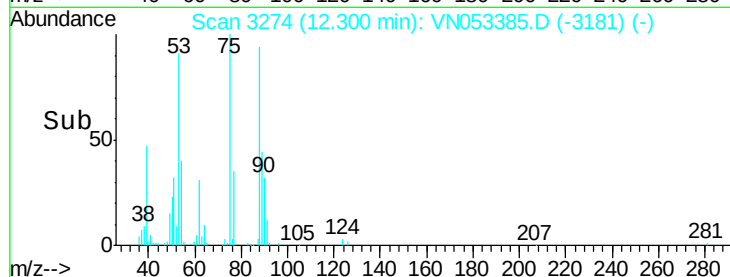
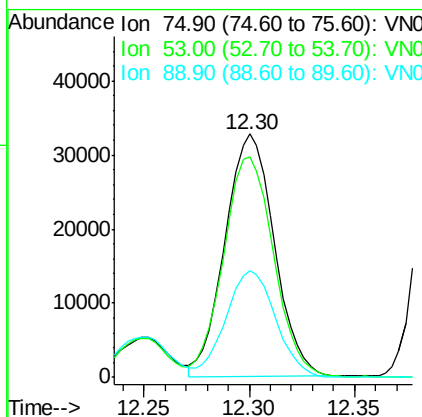
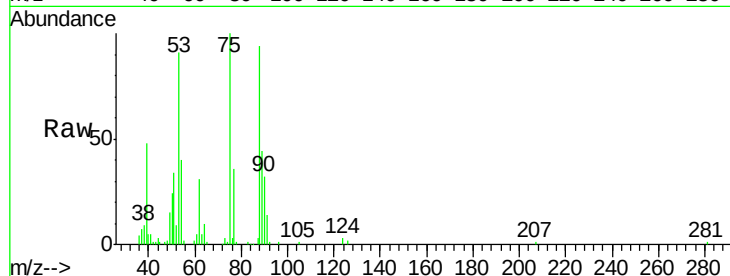
#81
trans-1,4-Dichloro-2-butene
Concen: 19.788 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
VN0114WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.2	70.5	105.7
89	44.9	35.4	53.0

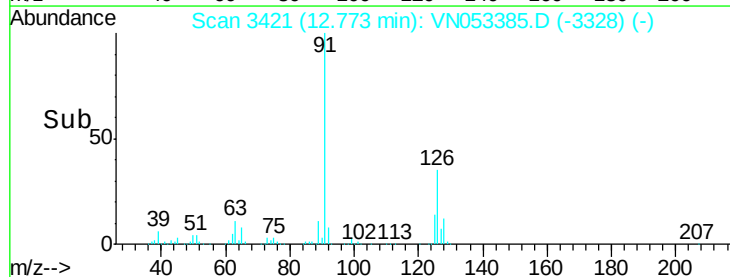
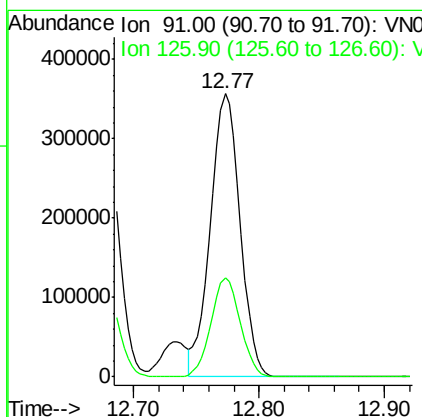
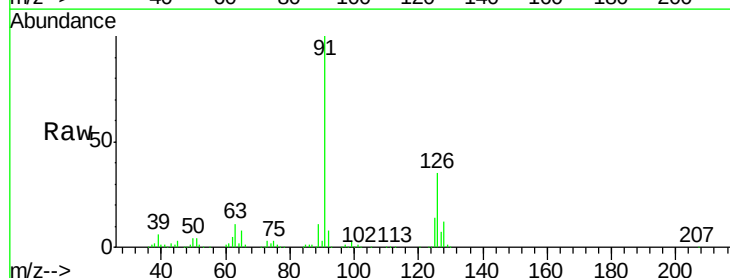
Manual Integrations
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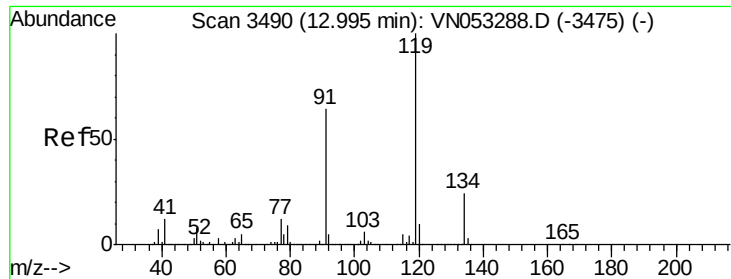
MMDadoda
1/15/2019 11:14:14 AM



#82
4-Chlorotoluene
Concen: 20.727 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053385.D
Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.4	52.2





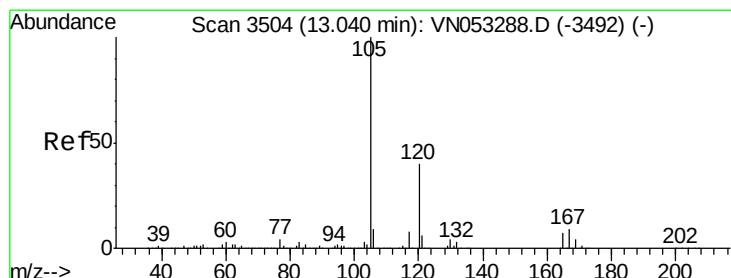
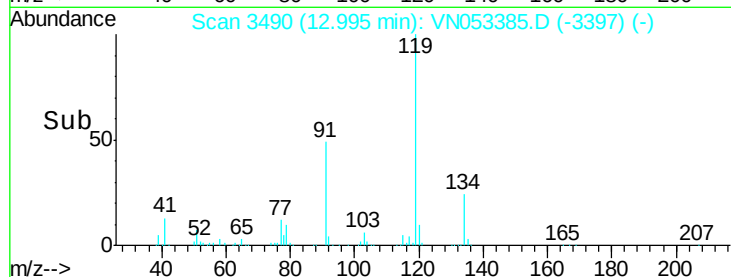
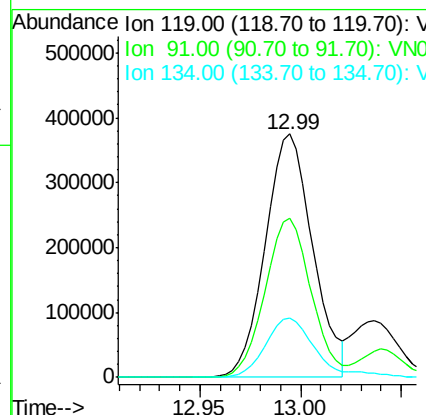
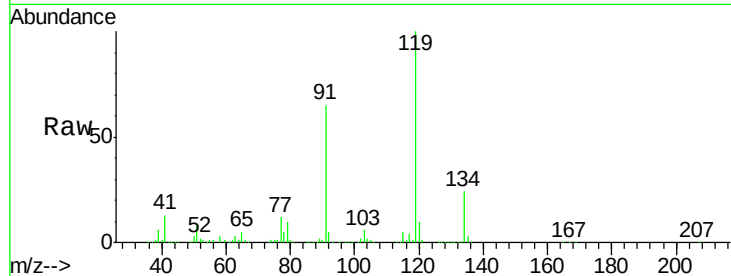
#83
 tert-Butylbenzene
 Concen: 21.646 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0114WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.2	31.6	95.0
134	25.8	12.9	38.6

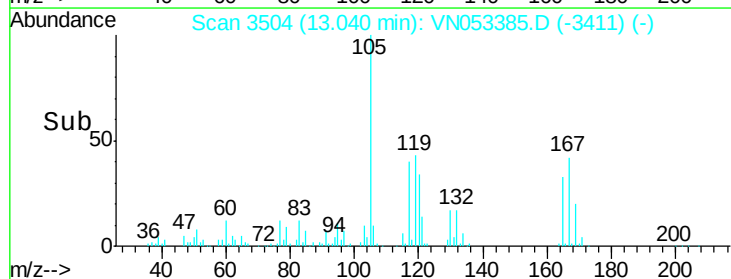
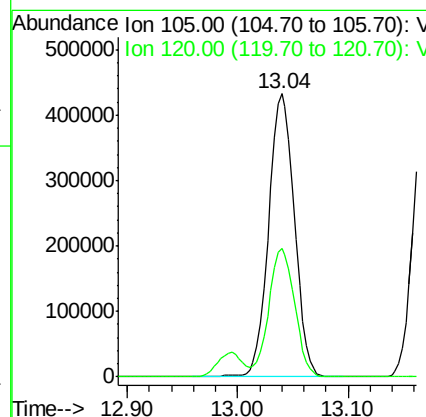
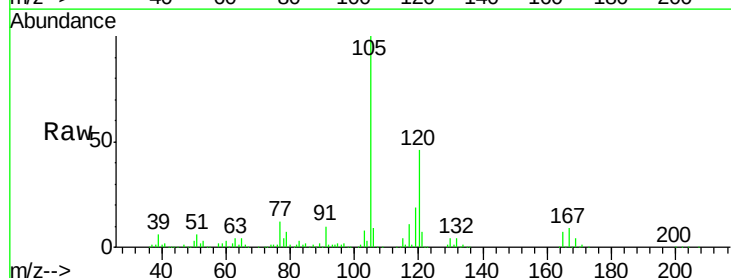
Manual Integrations
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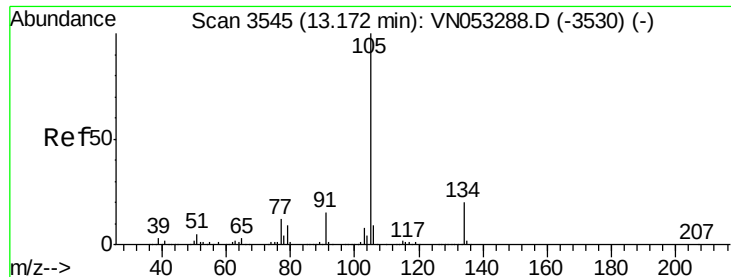
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.265 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	23.0	69.0





#85

sec-Butylbenzene

Concen: 22.370 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

VN0114WBS01

Tot Ion:105 Resp: 837596

Ion Ratio Lower Upper

105 100

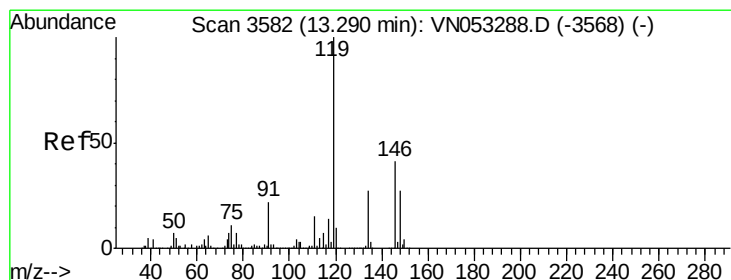
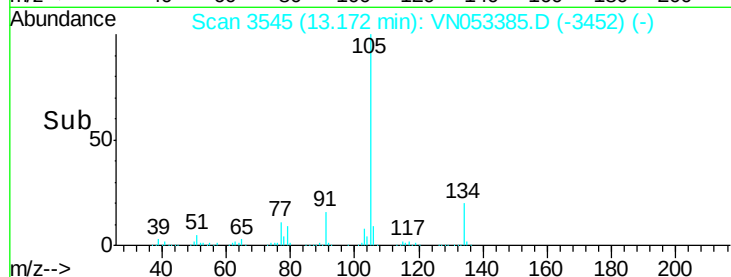
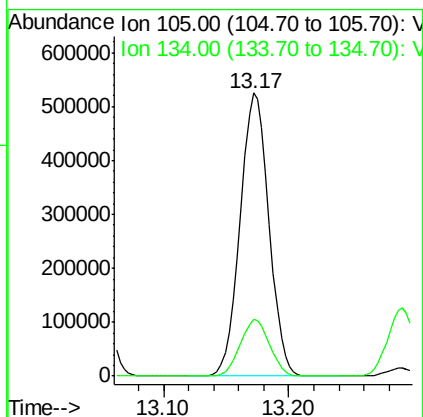
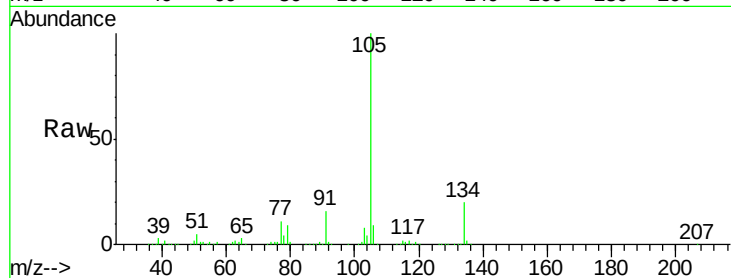
134 20.4 10.2 30.6

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#86

p-Isopropyltoluene

Concen: 21.982 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

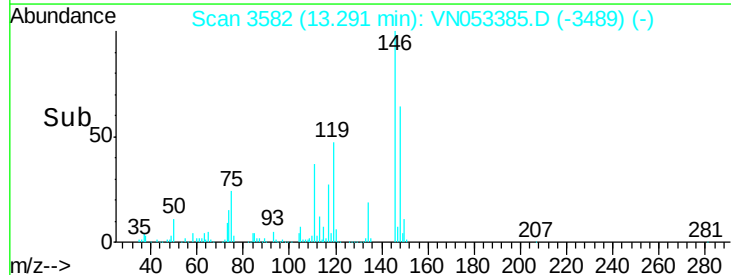
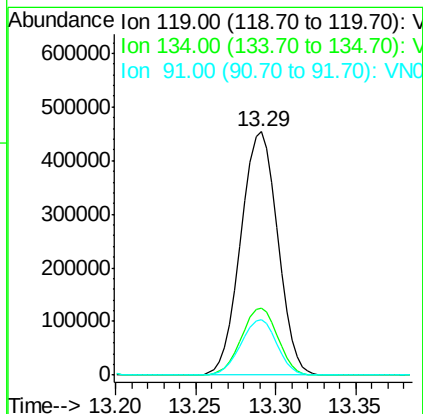
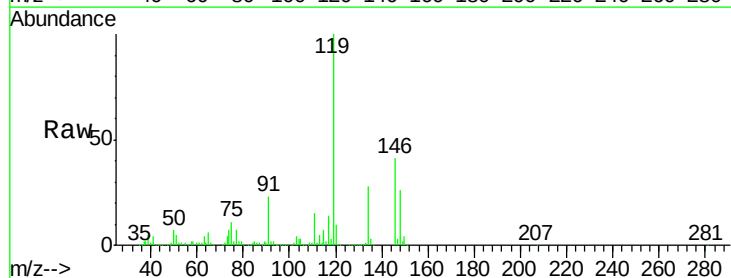
Tgt Ion:119 Resp: 712613

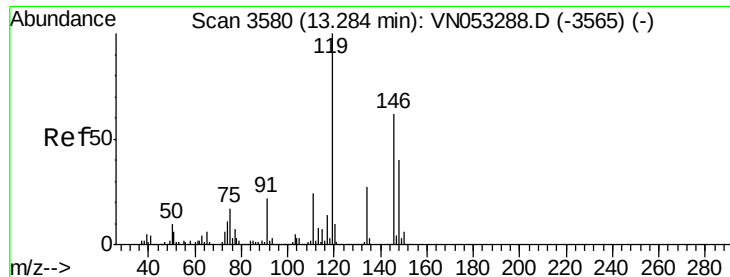
Ion Ratio Lower Upper

119 100

134 27.2 13.4 40.1

91 22.1 11.1 33.1





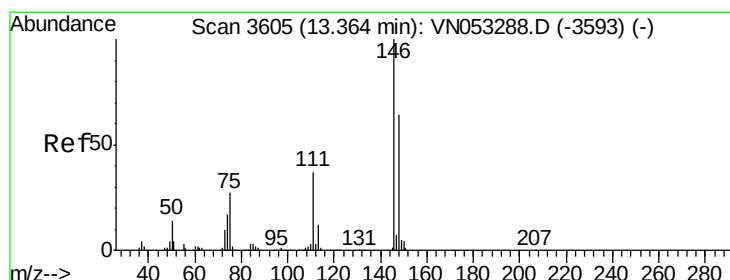
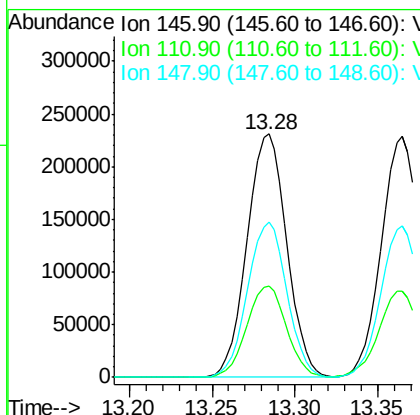
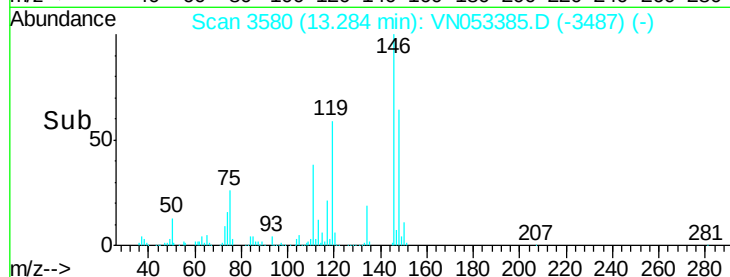
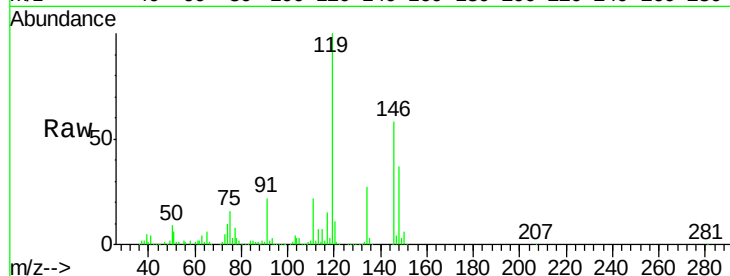
#87
 1,3-Dichlorobenzene
 Concen: 20.424 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0114WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100			
111	37.6	18.9	56.5	
148	63.2	32.0	96.2	

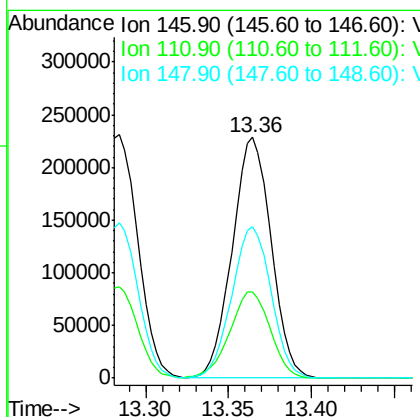
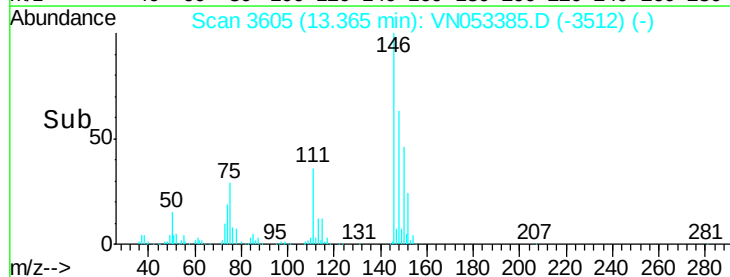
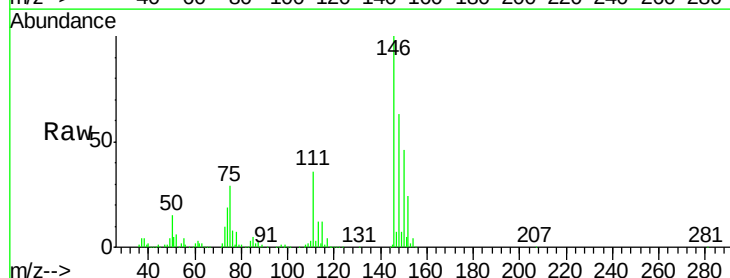
Manual Integrations
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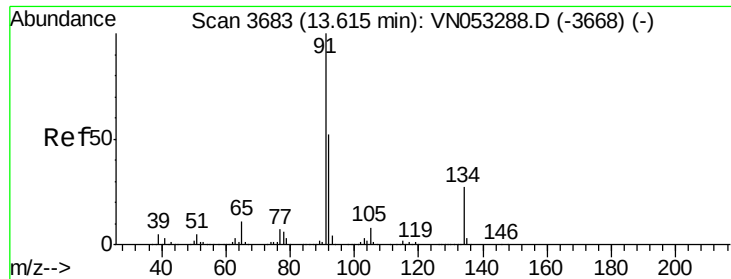
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#88
 1,4-Dichlorobenzene
 Concen: 19.945 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Resp	Lower	Upper
146	100			
111	37.5	18.6	55.8	
148	63.6	32.0	96.0	





#89

n-Butylbenzene

Concen: 21.440 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

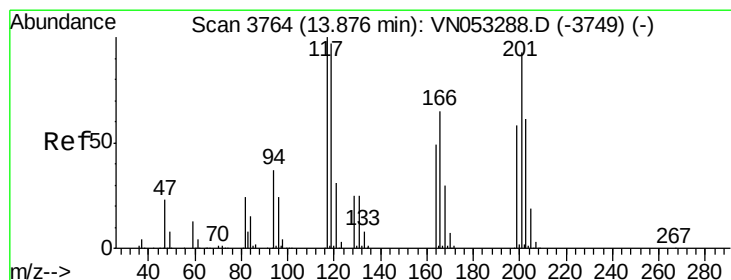
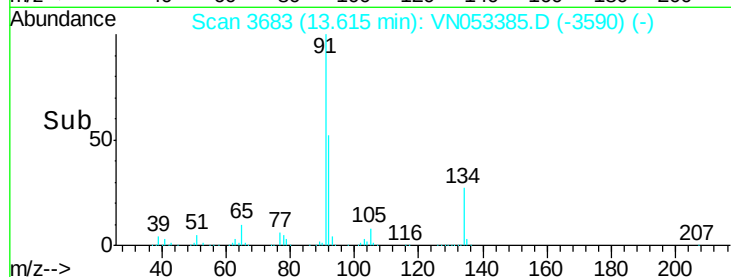
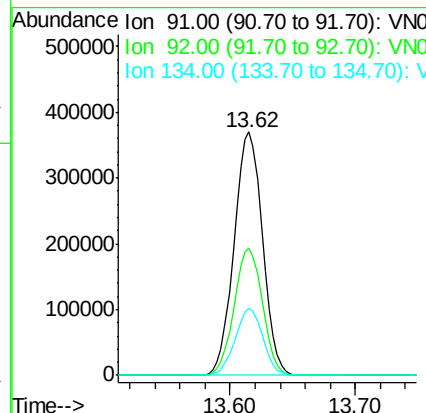
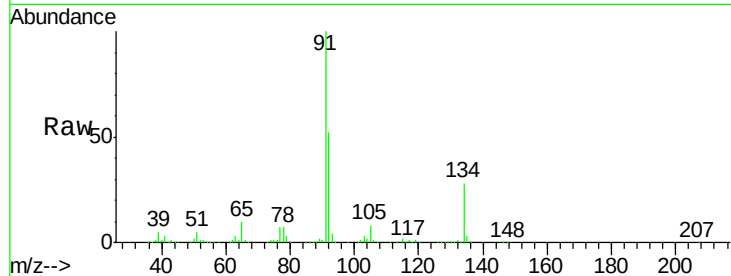
ClientSampleId :

VN0114WBS01

Tot Ion:	91	Resp:	582730
Ion Ratio	Lower	Upper	
91	100		
92	52.1	26.3	78.8
134	26.9	13.5	40.5

Manual Integrations
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#90

Hexachloroethane

Concen: 20.177 ug/l

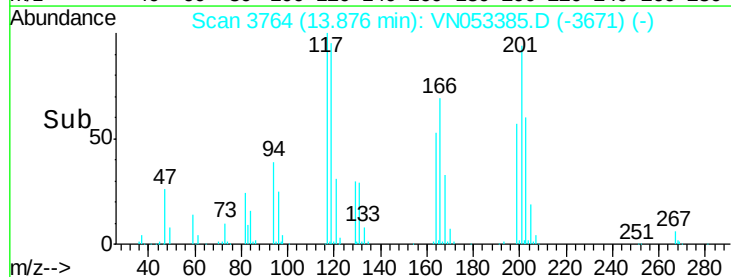
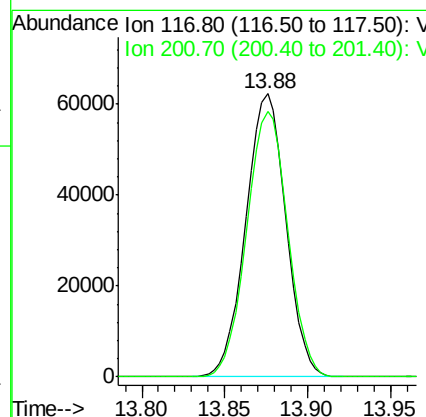
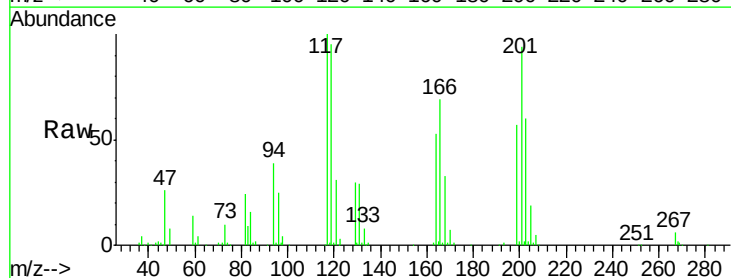
RT: 13.88 min Scan# 3764

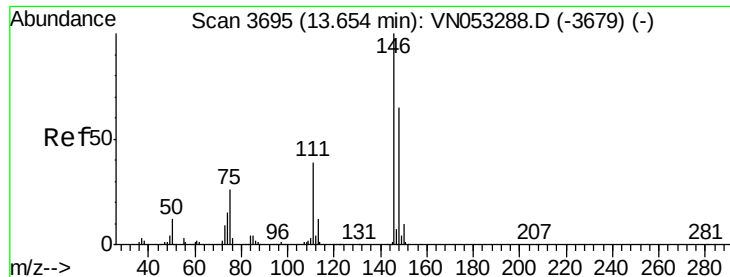
Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion:	117	Resp:	104841
Ion Ratio	Lower	Upper	
117	100		
201	96.1	46.1	138.3





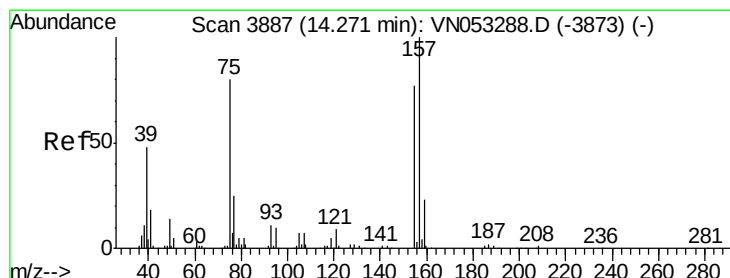
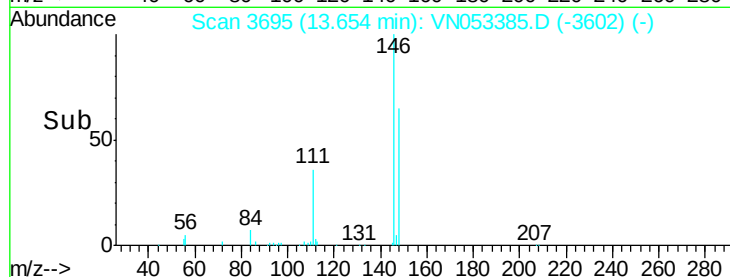
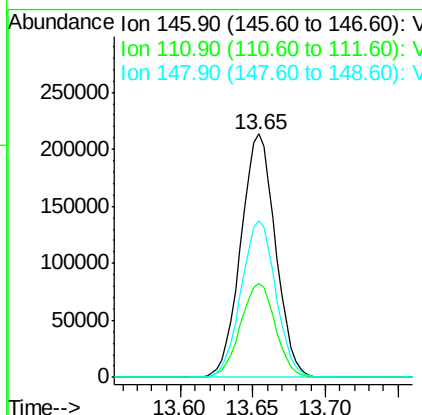
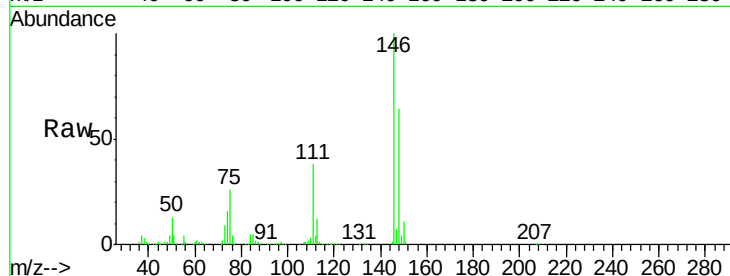
#91
 1,2-Dichlorobenzene
 Concen: 20.086 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0114WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.4	58.2
148	64.2	32.2	96.6

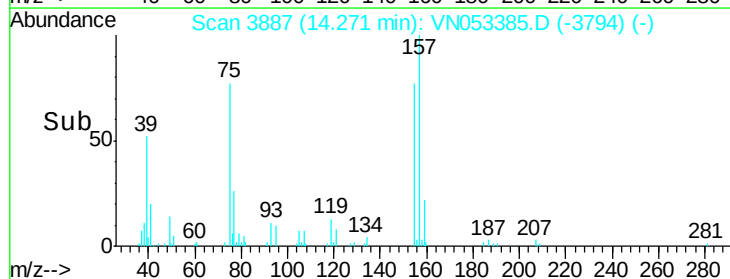
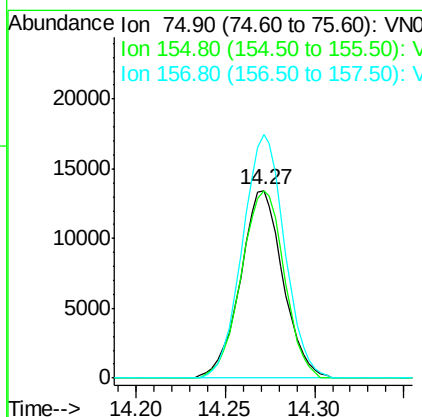
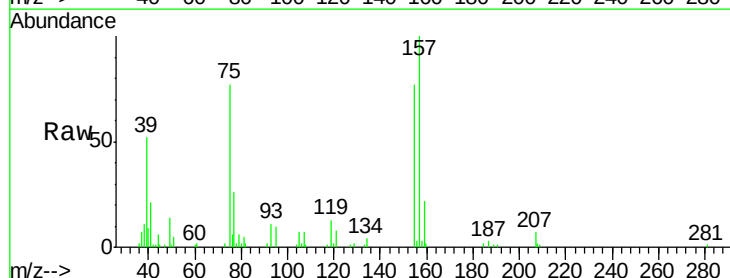
Manual Integrations
 APPROVED

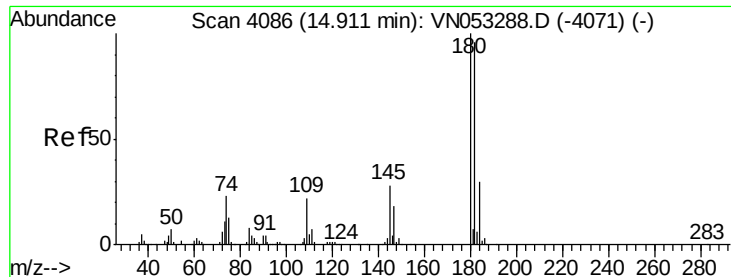
MMDadoda
 1/15/2019 11:14:14 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.933 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.8	48.1	144.3
157	128.7	61.5	184.4





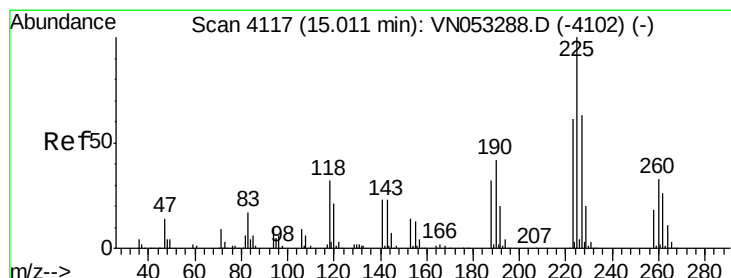
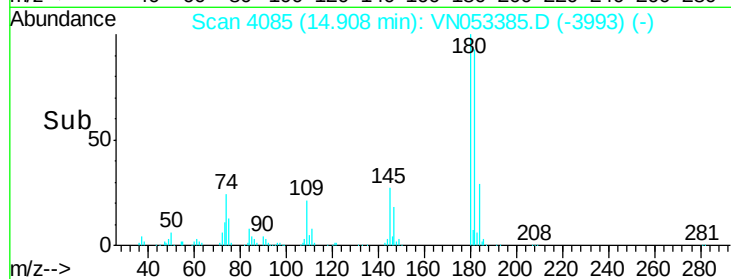
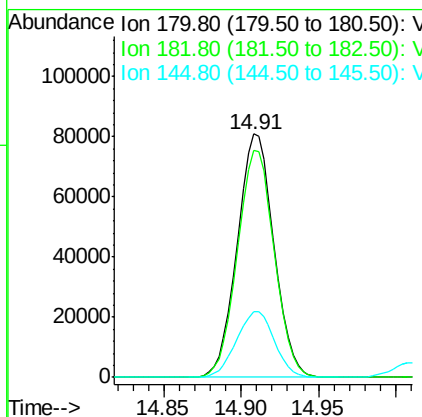
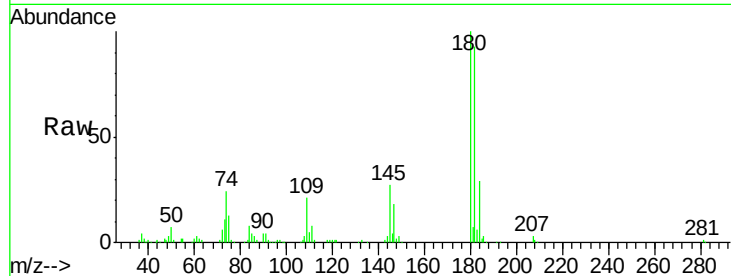
#93
 1,2,4-Trichlorobenzene
 Concen: 23.901 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0114WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.8	143.4
145	28.1	14.4	43.0

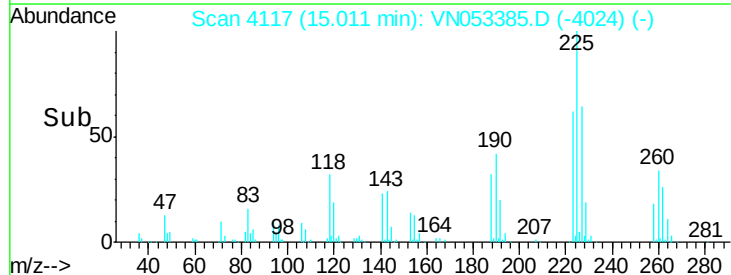
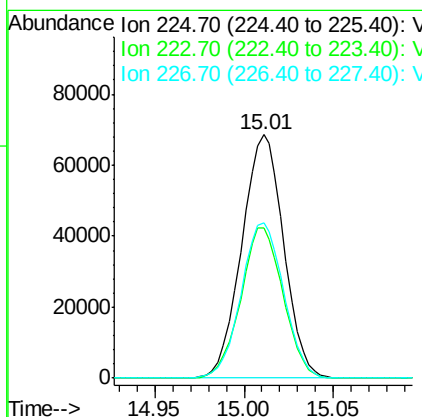
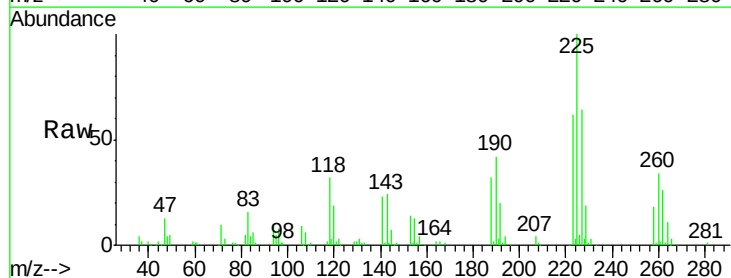
Manual Integrations
 APPROVED

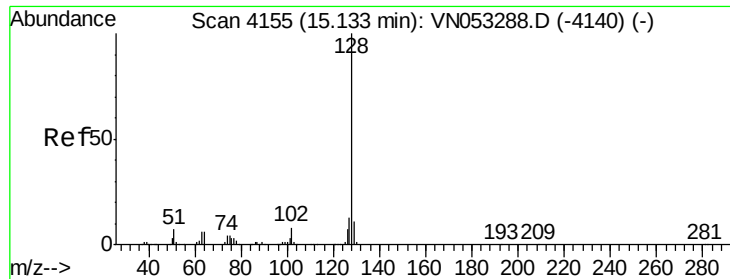
MMDadoda
 1/15/2019 11:14:14 AM



#94
 Hexachlorobutadiene
 Concen: 24.763 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053385.D
 Acq: 14 Jan 2019 12:24

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.3	30.9	92.8
227	64.6	31.4	94.2





#95

Naphthalene

Concen: 24.085 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Instrument :

MSVOA_N

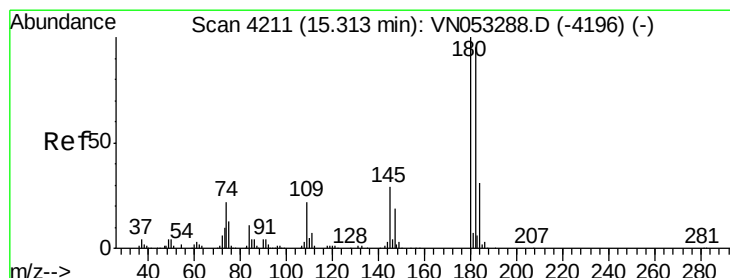
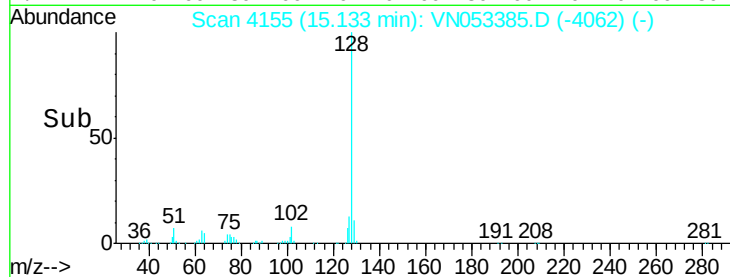
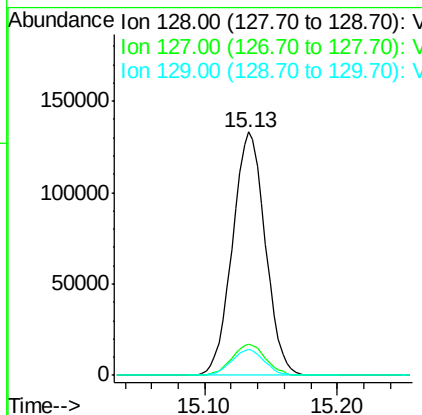
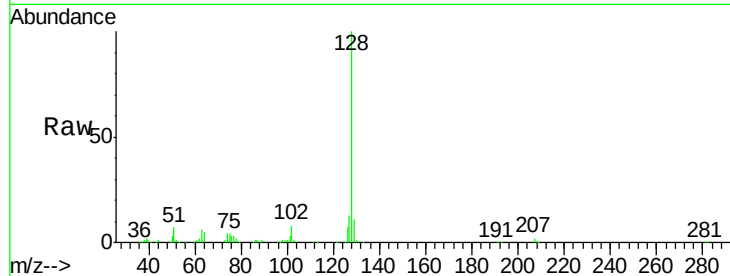
ClientSampled :

VN0114WBS01

Tot Ion:	128	Resp:	228486
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.4	15.6
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
1/15/2019 11:14:14 AM



#96

1,2,3-Trichlorobenzene

Concen: 25.904 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053385.D

Acq: 14 Jan 2019 12:24

Tgt Ion:	180	Resp:	94314
Ion Ratio	Lower	Upper	
180	100		
182	94.9	48.4	145.0
145	30.4	14.9	44.5

