

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050956.D
 Acq On : 30 Aug 2018 12:32
 Operator : MD\SY
 Sample : VN0830WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/31/2018 11:32:22 AM

Quant Time: Aug 31 03:47:15 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	569003	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	826333	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	745795	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	362258	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	349488	51.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.04%	
35) Dibromofluoromethane	7.59	113	334379	50.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.72%	
50) Toluene-d8	10.09	98	1229025	50.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.00%	
62) 4-Bromofluorobenzene	12.40	95	398483	48.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.58%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	144044	18.92	ug/l	99
3) Chloromethane	2.06	50	164264	17.49	ug/l	100
4) Vinyl Chloride	2.18	62	165286	18.58	ug/l	98
5) Bromomethane	2.56	94	92560	17.61	ug/l	99
6) Chloroethane	2.70	64	94989	18.48	ug/l	98
7) Trichlorofluoromethane	3.01	101	218021	19.14	ug/l	99
8) Diethyl Ether	3.41	74	75029	19.37	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	134349	18.88	ug/l	99
10) Methyl Iodide	3.95	142	99885	20.30	ug/l	100
11) Tert butyl alcohol	4.79	59	49264	112.94	ug/l	99
12) 1,1-Dichloroethene	3.73	96	119629	18.72	ug/l	98
13) Acrolein	3.61	56	14844	72.01	ug/l	99
14) Allyl chloride	4.32	41	182243	18.30	ug/l	99
15) Acrylonitrile	5.00	53	235243	106.12	ug/l	99
16) Acetone	3.82	43	168773	99.80	ug/l	98
17) Carbon Disulfide	4.05	76	347250	16.21	ug/l	100
18) Methyl Acetate	4.33	43	149359	23.09	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	331104	20.60	ug/l	99
20) Methylene Chloride	4.55	84	144038	18.66	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	127912	18.51	ug/l	95
22) Diisopropyl ether	5.96	45	405054	20.41	ug/l	97
23) Vinyl Acetate	5.90	43	1234412	96.58	ug/l	100
24) 1,1-Dichloroethane	5.85	63	244122	19.16	ug/l	99
25) 2-Butanone	6.84	43	253675	91.89	ug/l	100
26) 2,2-Dichloropropane	6.83	77	187870	18.35	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	143859	19.30	ug/l	99
28) Bromochloromethane	7.20	49	103302	19.08	ug/l	98
29) Tetrahydrofuran	7.22	42	170138	107.50	ug/l	98
30) Chloroform	7.37	83	248874	19.73	ug/l	98
31) Cyclohexane	7.66	56	206090	18.10	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	206244	19.03	ug/l	99
36) 1,1-Dichloropropene	7.80	75	177770	18.23	ug/l	99
37) Ethyl Acetate	6.93	43	113924	20.34	ug/l	98
38) Carbon Tetrachloride	7.77	117	185097	18.78	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	182020	17.25	ug/l	97
40) Benzene	8.04	78	562913	19.14	ug/l	100
41) Methacrylonitrile	7.18	41	59304	19.56	ug/l	97
42) 1,2-Dichloroethane	8.13	62	170313	19.37	ug/l	100
43) Isopropyl Acetate	8.17	43	201821	20.96	ug/l	99
44) Trichloroethene	8.84	130	143639	18.52	ug/l	100
45) 1,2-Dichloropropane	9.12	63	148036	19.16	ug/l	100
46) Dibromomethane	9.21	93	88984	19.60	ug/l	98
47) Bromodichloromethane	9.40	83	185946	19.55	ug/l	100
48) Methyl methacrylate	9.20	41	100801	20.54	ug/l	99
49) 1,4-Dioxane	9.20	88	29209	436.54	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	587126	102.16	ug/l	100
52) Toluene	10.16	92	345962	19.86	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	177033	18.70	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	208711	19.25	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	128788	19.92	ug/l	99
56) Ethyl methacrylate	10.43	69	146302	18.93	ug/l	99
57) 1,3-Dichloropropane	10.71	76	213222	19.98	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	311182	92.87	ug/l	99
59) 2-Hexanone	10.75	43	376754	98.47	ug/l	98
60) Dibromochloromethane	10.90	129	145301	20.07	ug/l	99
61) 1,2-Dibromoethane	11.01	107	123765	19.80	ug/l	99
64) Tetrachloroethene	10.63	164	131250	18.53	ug/l	98
65) Chlorobenzene	11.44	112	373709	19.17	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	141094	19.78	ug/l	100
67) Ethyl Benzene	11.51	91	600618	18.95	ug/l	99
68) m/p-Xylenes	11.62	106	480942	39.98	ug/l	99
69) o-Xylene	11.95	106	227213	19.65	ug/l	100
70) Styrene	11.96	104	362435	18.60	ug/l	99
71) Bromoform	12.13	173	101422	20.68	ug/l #	98
73) Isopropylbenzene	12.25	105	603907	20.13	ug/l	100
74) N-amyl acetate	12.07	43	149291	19.81	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	163534	21.95	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	132979m	20.96	ug/l	
77) Bromobenzene	12.53	156	156743	19.23	ug/l	99
78) n-propylbenzene	12.59	91	667085	19.91	ug/l	100
79) 2-Chlorotoluene	12.68	91	414783	19.87	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	491096	20.29	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	38095	20.30	ug/l	98
82) 4-Chlorotoluene	12.77	91	407996	19.80	ug/l	99
83) tert-Butylbenzene	12.99	119	420461	20.06	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	497420	20.43	ug/l	99
85) sec-Butylbenzene	13.17	105	551687	20.09	ug/l	100
86) p-Isopropyltoluene	13.29	119	474333	20.27	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	257285	18.60	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	253747	18.64	ug/l	99
89) n-Butylbenzene	13.62	91	342155	18.28	ug/l	99
90) Hexachloroethane	13.88	117	91211	20.56	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	264336	19.80	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22179	20.59	ug/l	97

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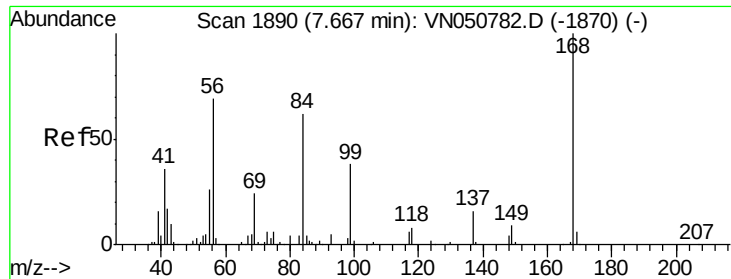
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	97781	17.02	ug/l	99
94) Hexachlorobutadiene	15.01	225	80762	19.74	ug/l	99
95) Naphthalene	15.14	128	189457	17.08	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	102380	17.99	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN0830WBSD01

Tot Ion:168 Resp: 569003

Ion Ratio Lower Upper

168 100

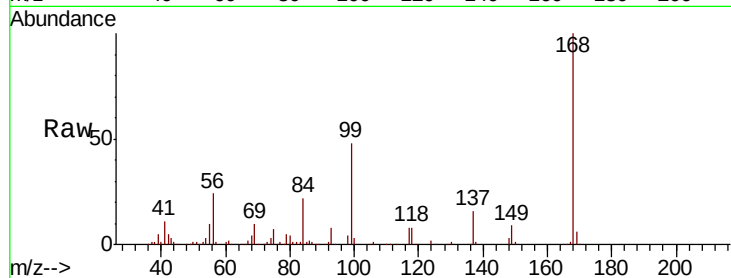
99 47.9 39.6 59.4

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Abundance Ion 167.90 (167.60 to 168.60): VN050782.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050782.D (-1870) (-)

7.67

250000

200000

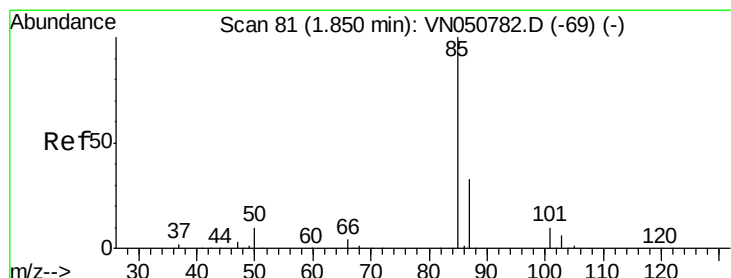
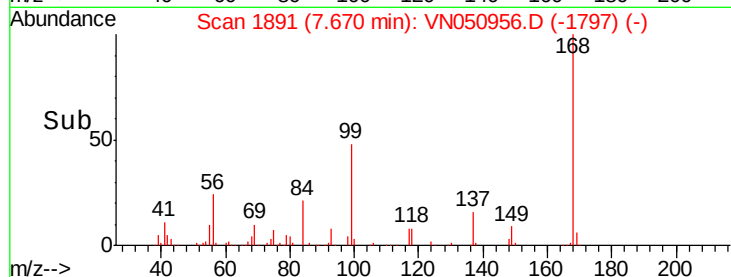
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.92 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050956.D

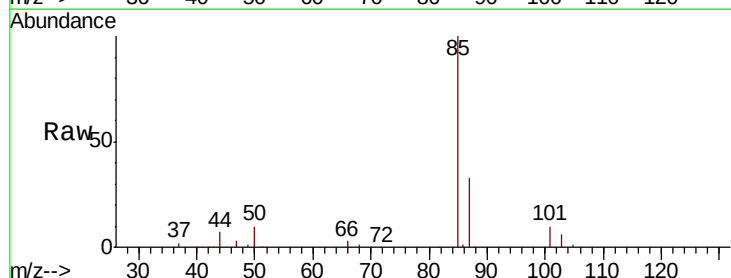
Acq: 30 Aug 2018 12:32

Tgt Ion: 85 Resp: 144044

Ion Ratio Lower Upper

85 100

87 33.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN050782.D (-69) (-)

Ion 86.90 (86.60 to 87.60): VN050782.D (-69) (-)

1.85

120000

100000

80000

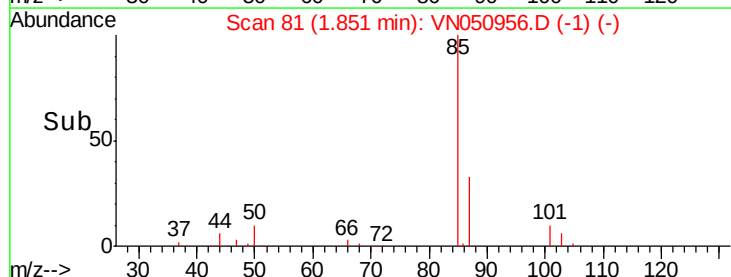
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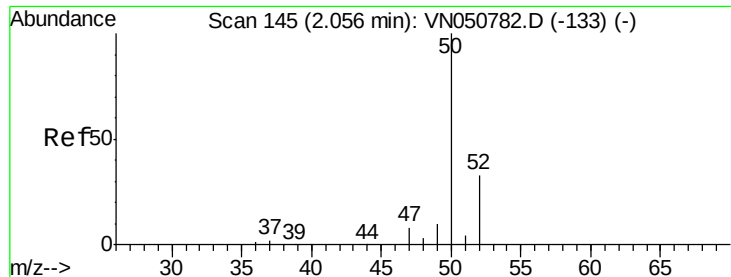
40000

20000

0

Time-->





#3

Chloromethane

Concen: 17.49 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN0830WBSD01

Tot Ion: 50 Resp: 164264

Ion Ratio Lower Upper

50 100

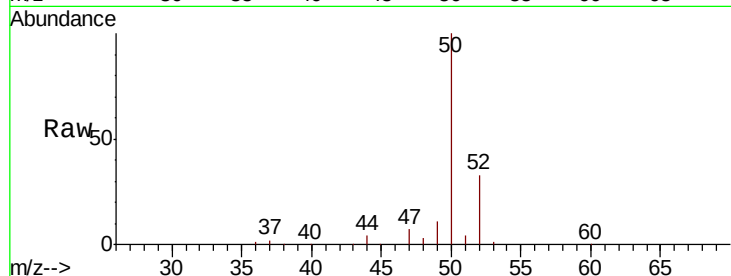
52 32.9 26.3 39.5

Manual Integrations

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8/31/2018 11:32:22 AM



Abundance Ion 49.90 (49.60 to 50.60): VN050956.D (-52) (-)

Ion 51.90 (51.60 to 52.60): VN050956.D (-52) (-)

2.06

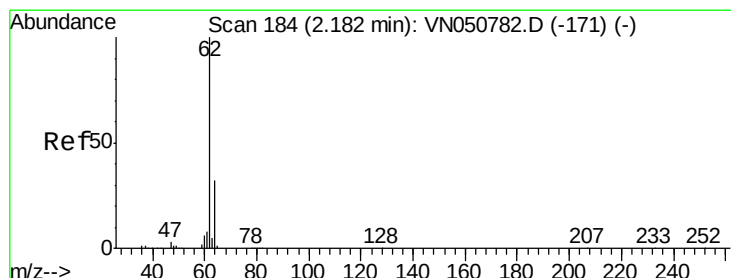
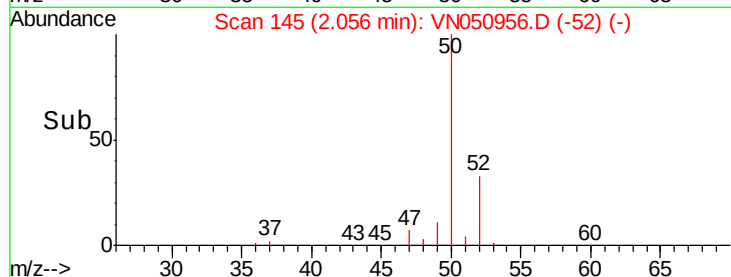
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 18.58 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050956.D

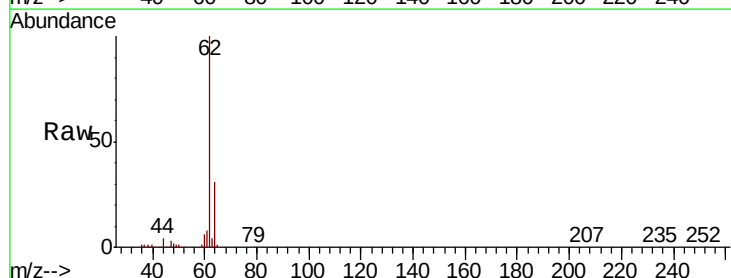
Acq: 30 Aug 2018 12:32

Tgt Ion: 62 Resp: 165286

Ion Ratio Lower Upper

62 100

64 31.0 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN050956.D (-91) (-)

Ion 63.90 (63.60 to 64.60): VN050956.D (-91) (-)

2.18

120000

100000

80000

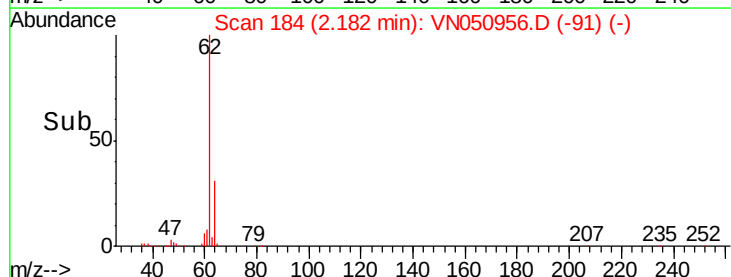
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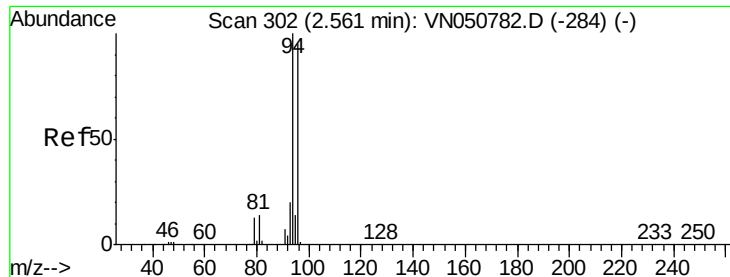
40000

20000

0

Time-->





#5

Bromomethane

Concen: 17.61 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN0830WBSD01

Tot Ion: 94 Resp: 92560

Ion Ratio Lower Upper

94 100

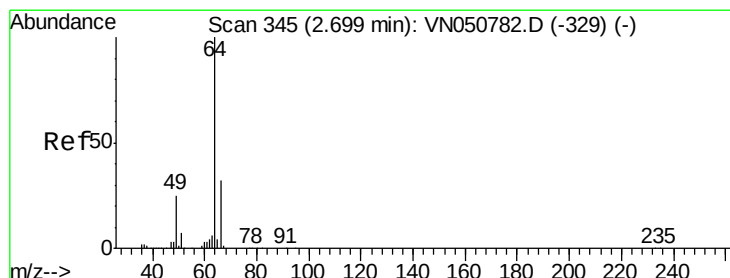
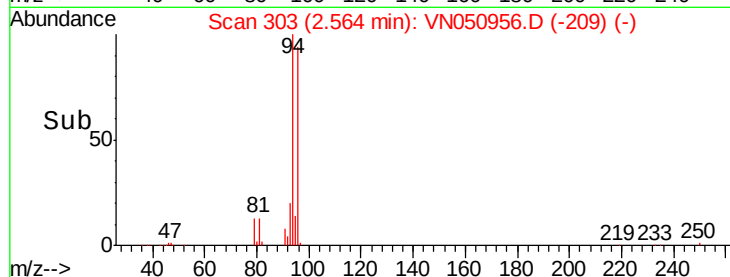
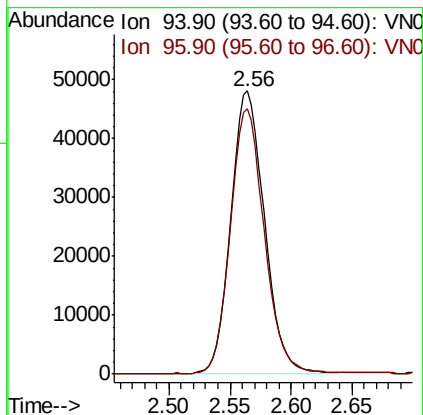
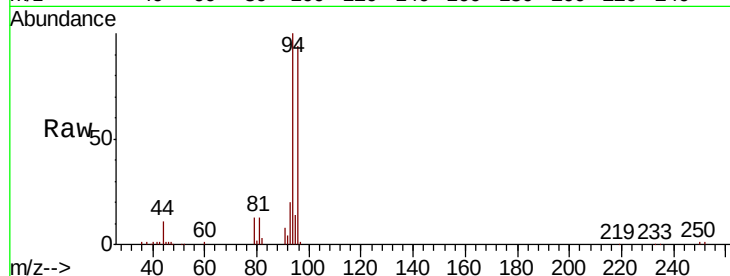
96 93.9 76.2 114.2

Manual Integrations

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8/31/2018 11:32:22 AM



#6

Chloroethane

Concen: 18.48 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050956.D

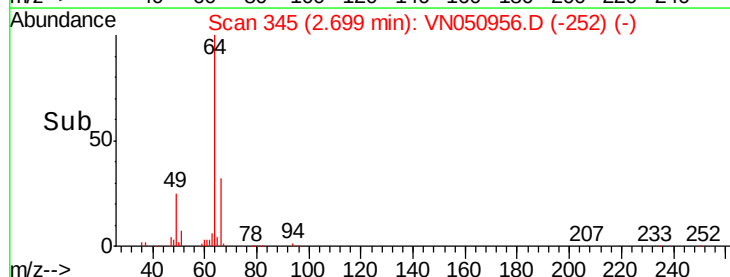
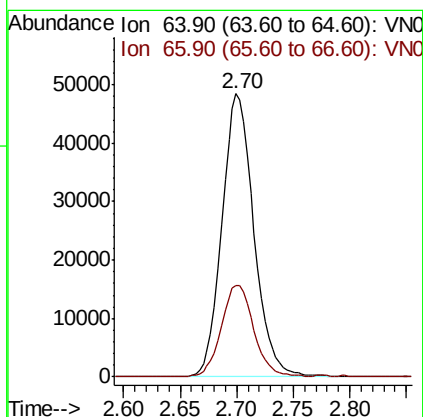
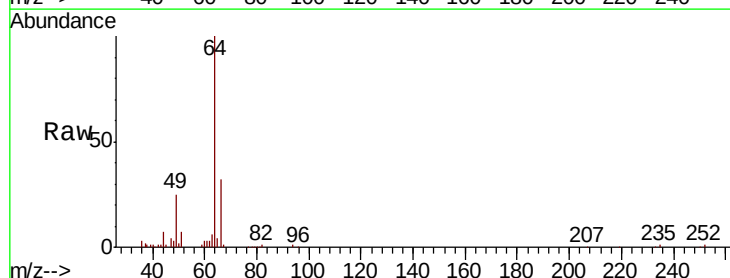
Acq: 30 Aug 2018 12:32

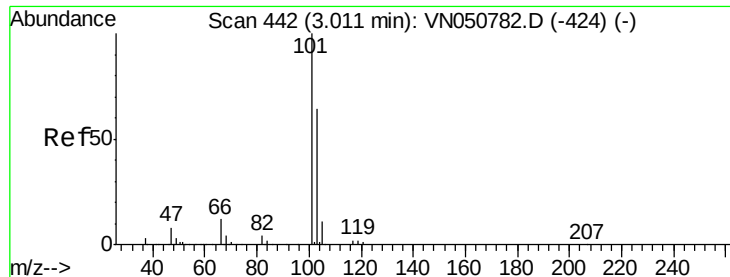
Tgt Ion: 64 Resp: 94989

Ion Ratio Lower Upper

64 100

66 32.5 25.3 37.9





#7

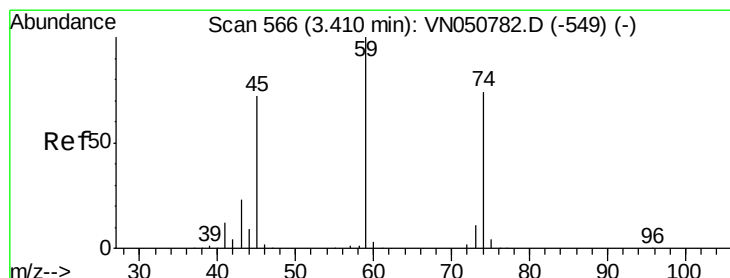
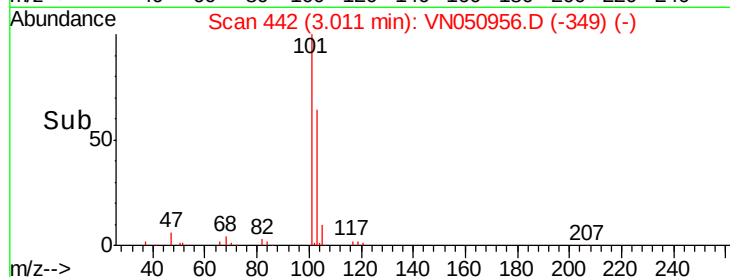
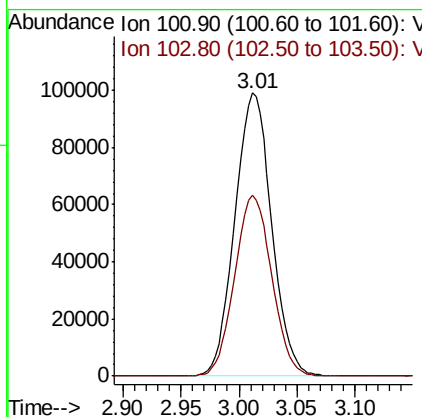
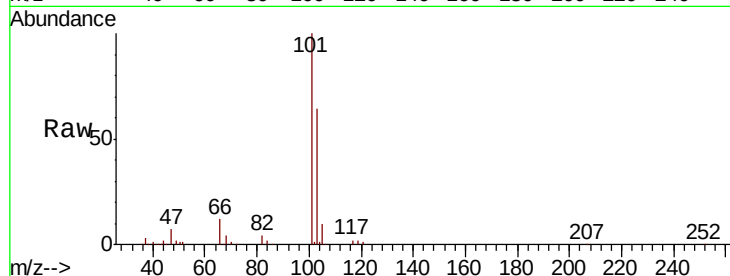
Trichlorofluoromethane
 Concen: 19.14 ug/l
 RT: 3.01 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
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 ClientSampleId :
 VN0830WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	218021		
103	63.7	51.6	77.4	

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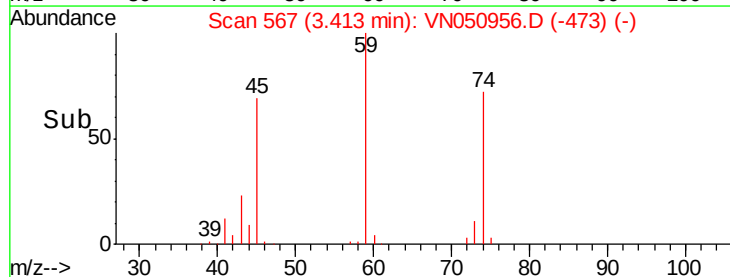
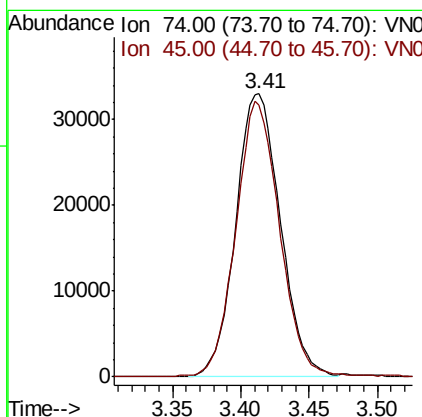
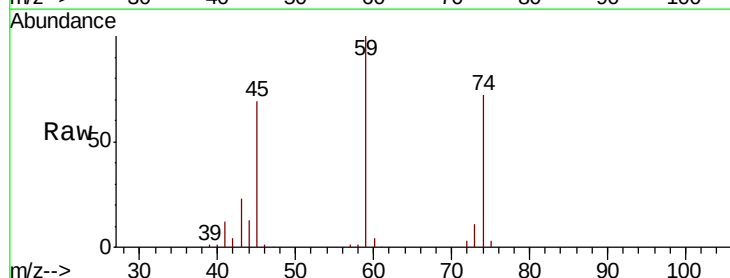
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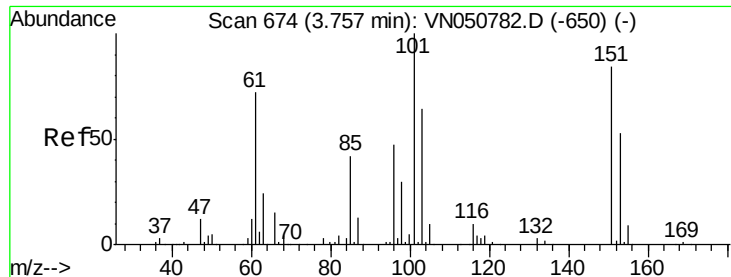


#8

Diethyl Ether
 Concen: 19.37 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	75029		
45	95.5	48.2	144.6	





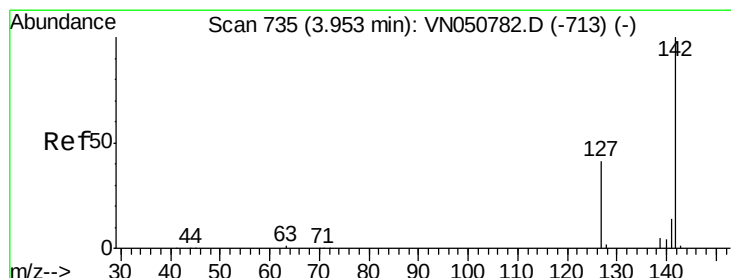
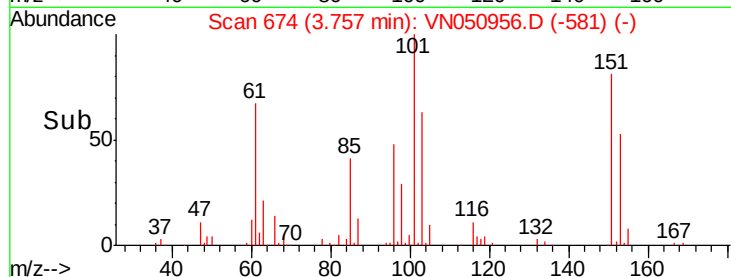
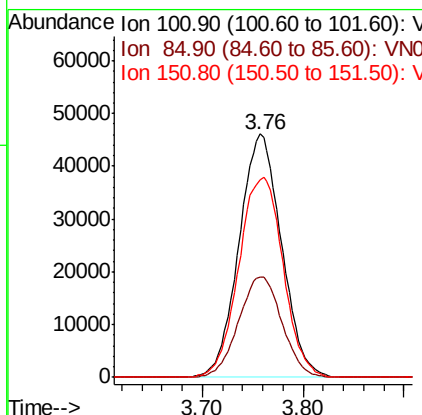
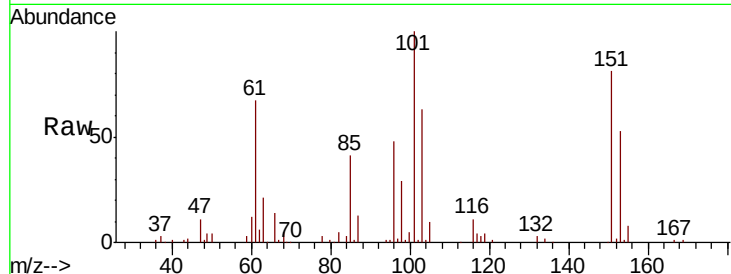
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.88 ug/l
 RT: 3.76 min Scan# 674
 Delta R.T. 0.00 min
 Lab File: VN050956.D
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Tot Ion	Ratio	Resp	Lower	Upper
101	100	134349		
85	42.3	33.7	50.5	
151	85.9	67.4	101.2	

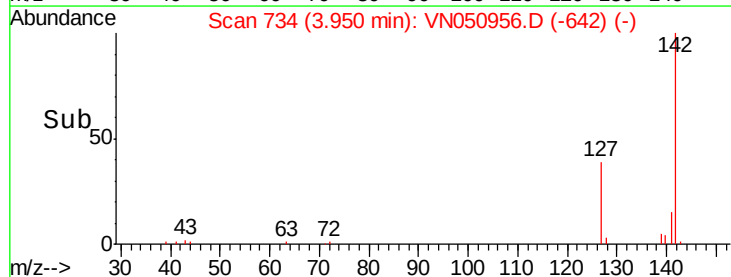
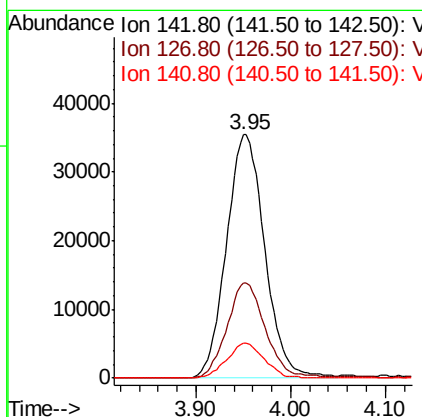
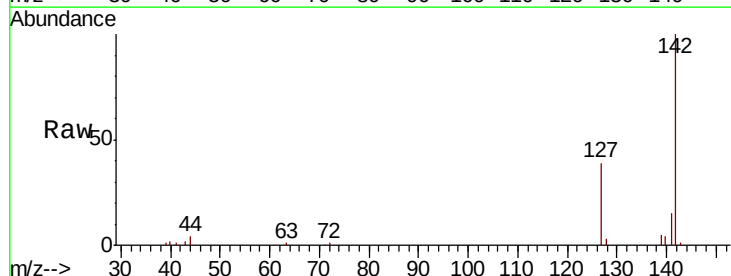
Manual Integrations
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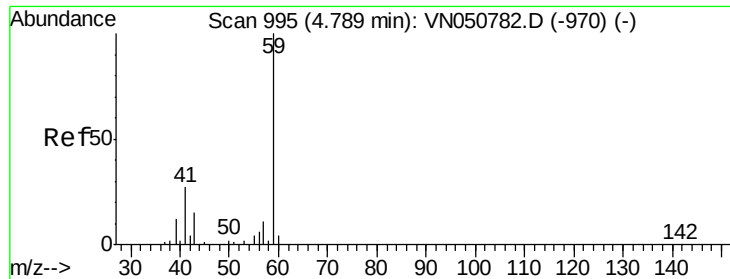
MMDadoda
 8/31/2018 11:32:22 AM



#10
 Methyl Iodide
 Concen: 20.30 ug/l
 RT: 3.95 min Scan# 734
 Delta R.T. -0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	99885		
127	39.5	31.7	47.5	
141	13.8	11.4	17.0	





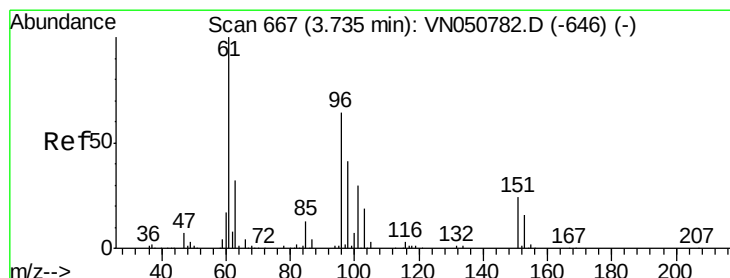
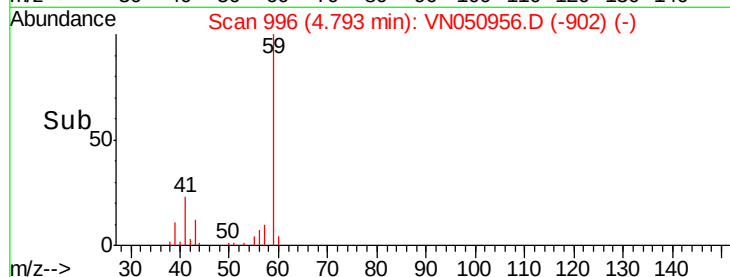
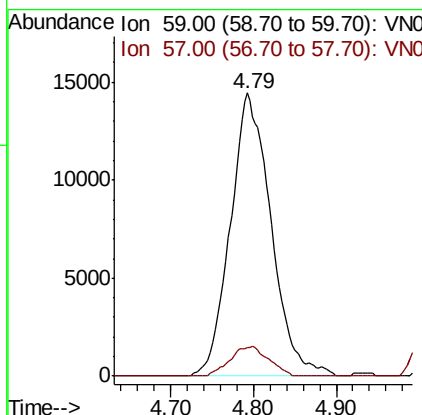
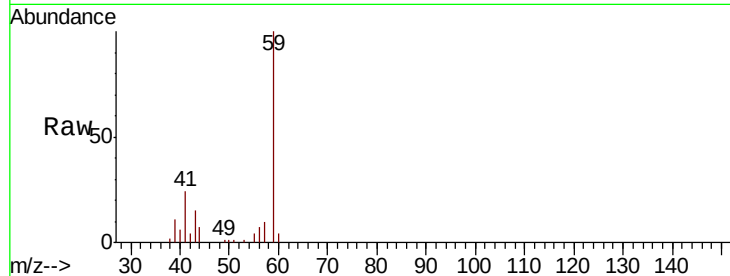
#11
Tert butyl alcohol
Concen: 112.94 ug/l
RT: 4.79 min Scan# 996
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	59	Resp	49264
Ion Ratio	100	Lower	Upper
57	9.9	8.3	12.5

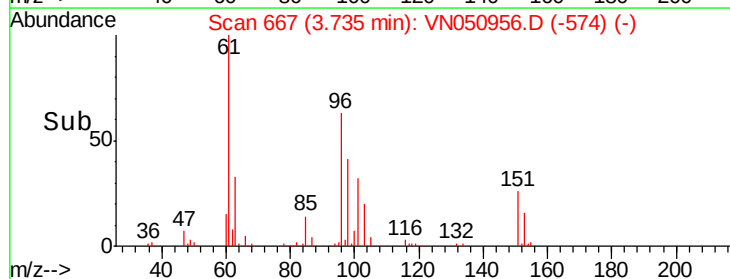
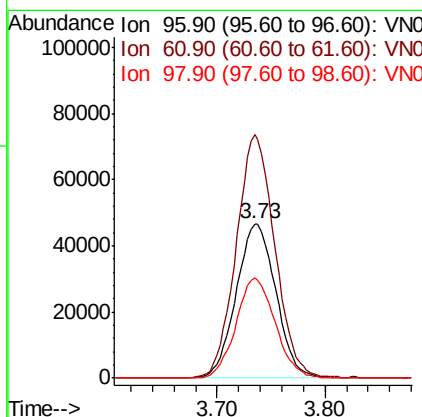
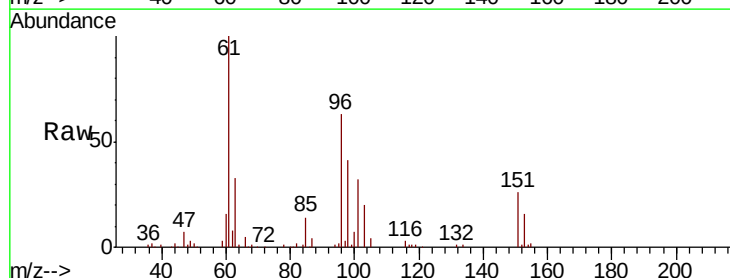
Manual Integrations
APPROVED

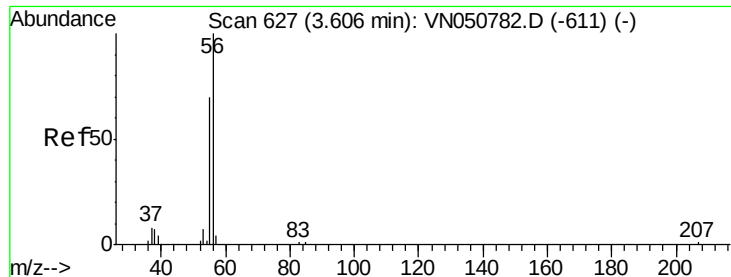
MMDadoda
8/31/2018 11:32:22 AM



#12
1,1-Dichloroethene
Concen: 18.72 ug/l
RT: 3.73 min Scan# 667
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	96	Resp	119629
Ion Ratio	100	Lower	Upper
61	157.9	124.9	187.3
98	65.3	51.1	76.7





#13

Acrolein

Concen: 72.01 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN0830WBSD01

Tot Ion: 56 Resp: 14844

Ion Ratio Lower Upper

56 100

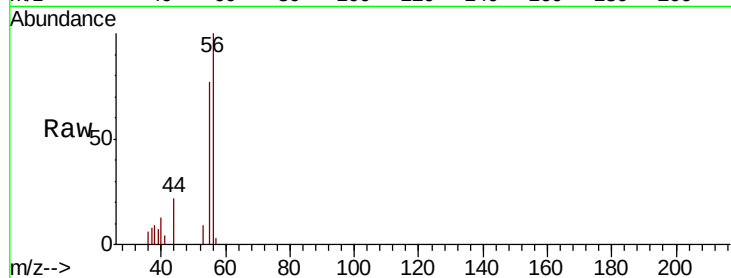
55 71.0 57.7 86.5

Manual Integrations

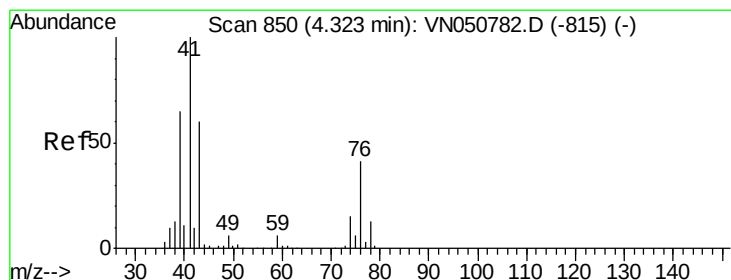
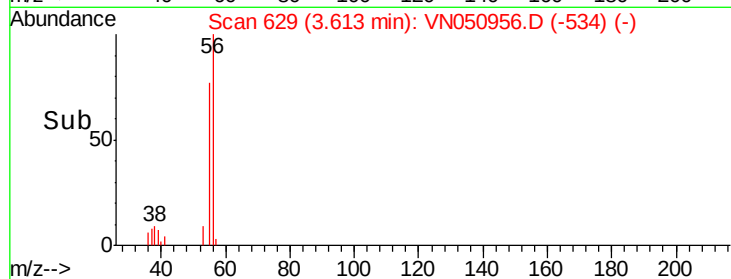
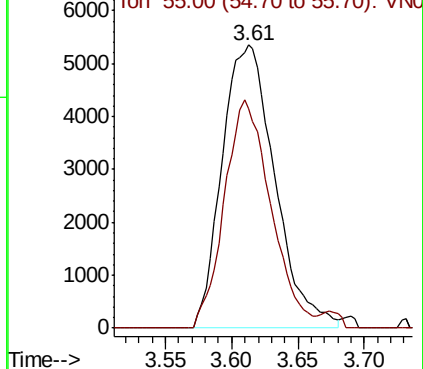
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Abundance Ion 56.00 (55.70 to 56.70): VN050956.D (-534) (-)



#14

Allyl chloride

Concen: 18.30 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

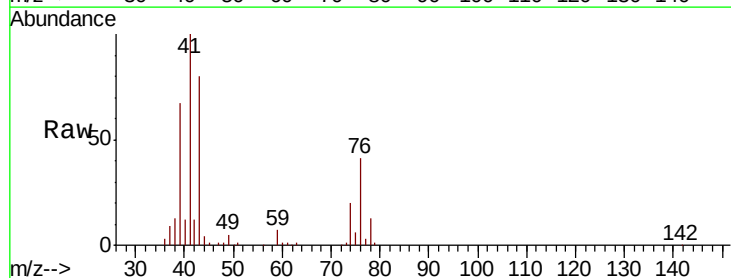
Tgt Ion: 41 Resp: 182243

Ion Ratio Lower Upper

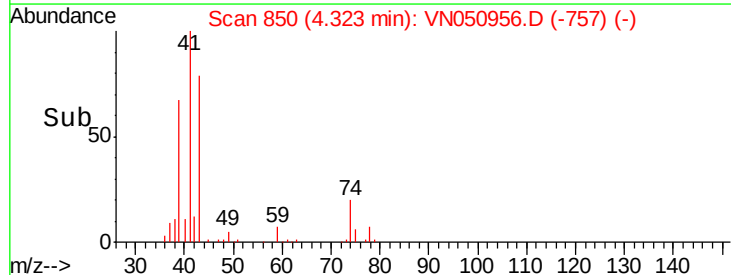
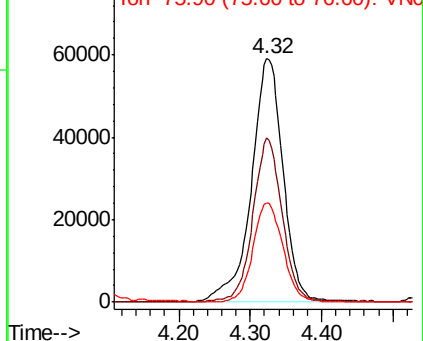
41 100

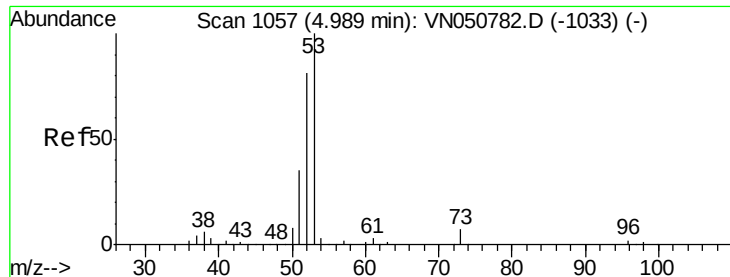
39 62.0 50.2 75.2

76 38.3 29.8 44.8



Abundance Ion 41.00 (40.70 to 41.70): VN050956.D (-757) (-)





#15

Acrylonitrile

Concen: 106.12 ug/l

RT: 5.00 min Scan# 1059

Delta R.T. 0.01 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

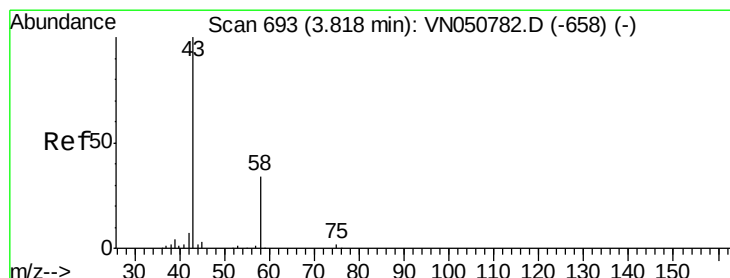
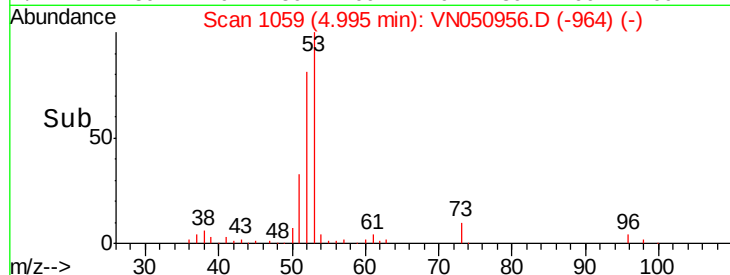
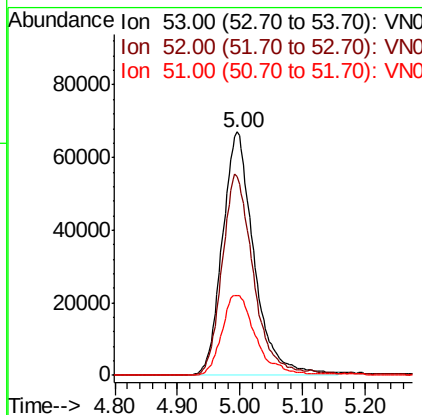
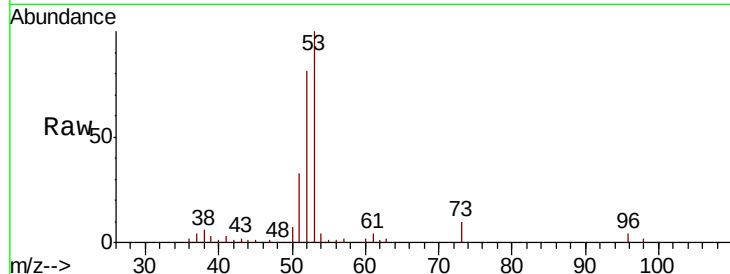
ClientSampleId :

VN0830WBSD01

Tot Ion:	53	Resp:	235243
Ion Ratio	Lower	Upper	
53	100		
52	80.8	65.9	98.9
51	35.3	28.6	43.0

Manual Integrations
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#16

Acetone

Concen: 99.80 ug/l

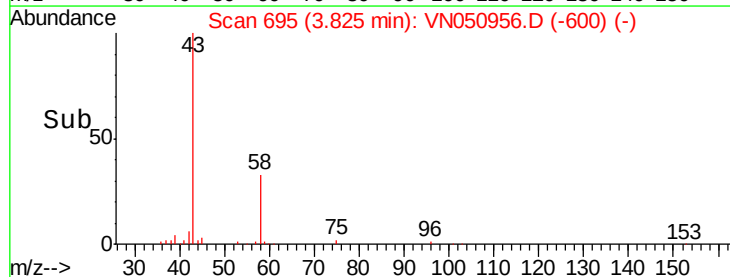
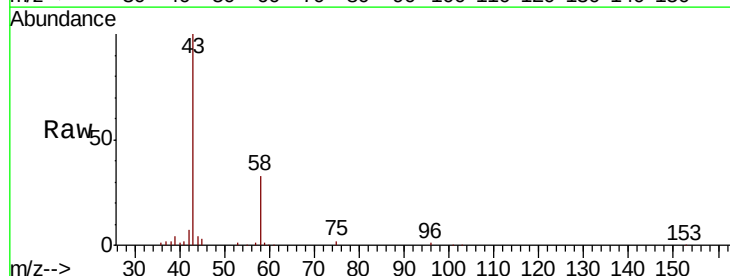
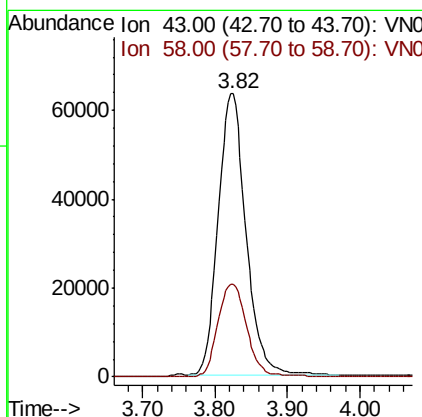
RT: 3.82 min Scan# 695

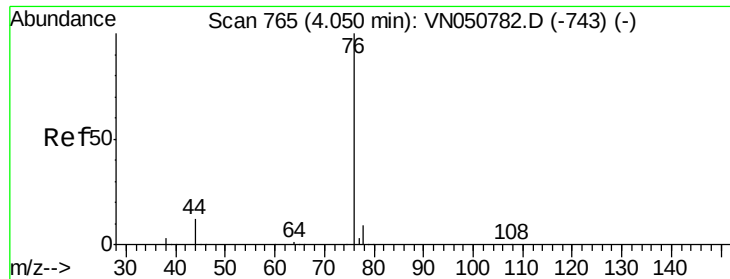
Delta R.T. 0.01 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Tgt Ion:	43	Resp:	168773
Ion Ratio	Lower	Upper	
43	100		
58	33.1	27.2	40.8





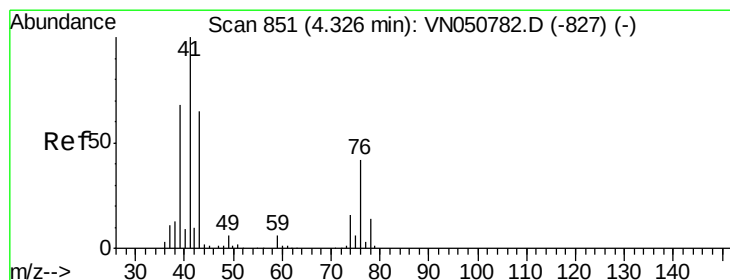
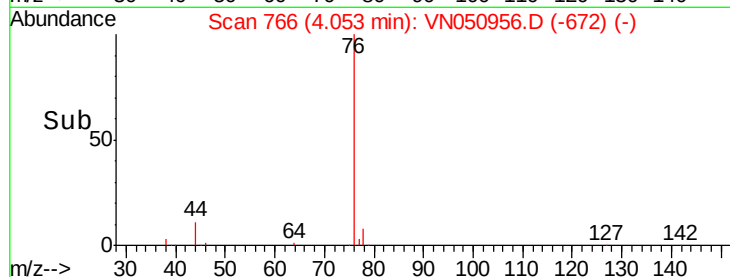
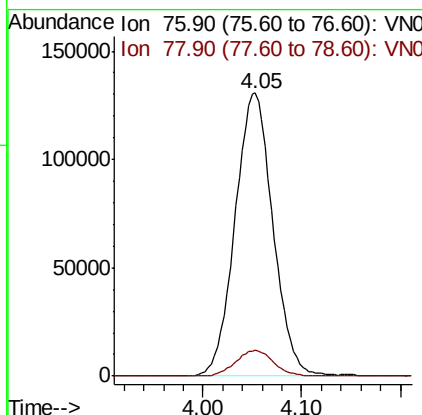
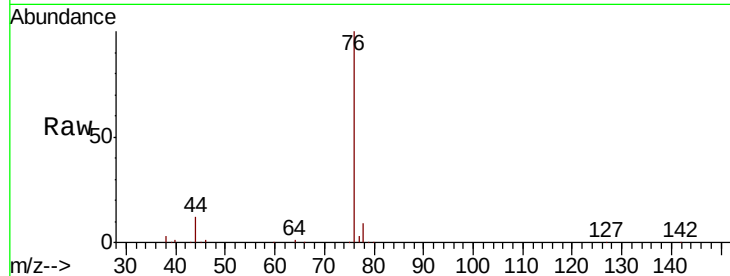
#17
Carbon Disulfide
Concen: 16.21 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

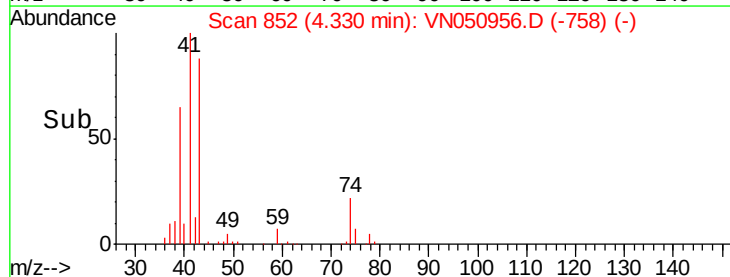
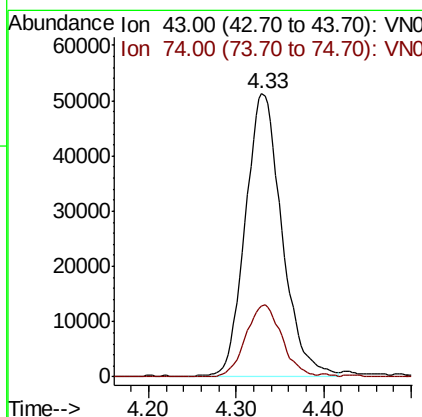
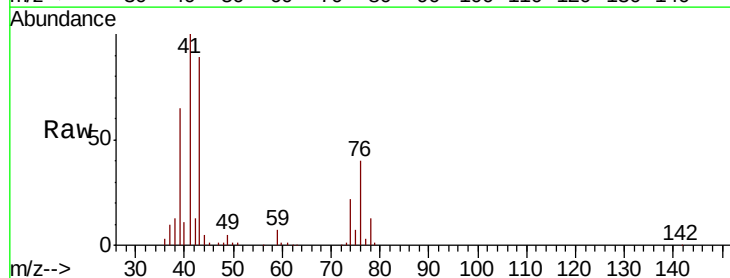
Manual Integrations
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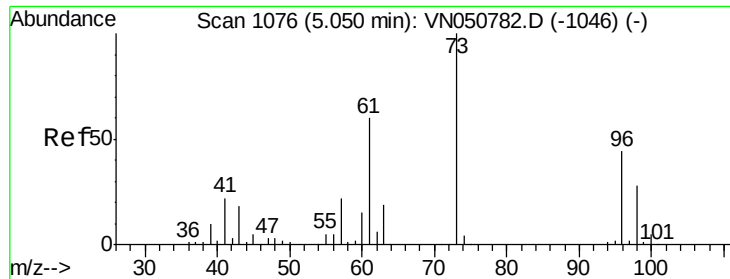
MMDadoda
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#18
Methyl Acetate
Concen: 23.09 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.0	19.8	29.8





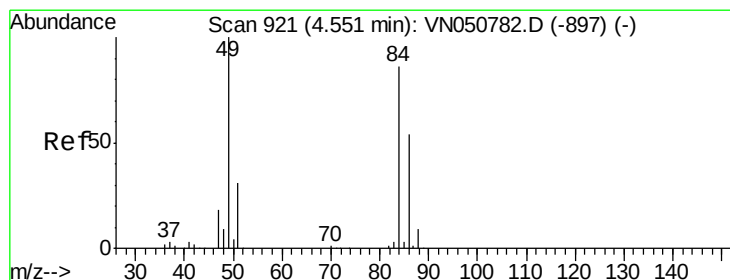
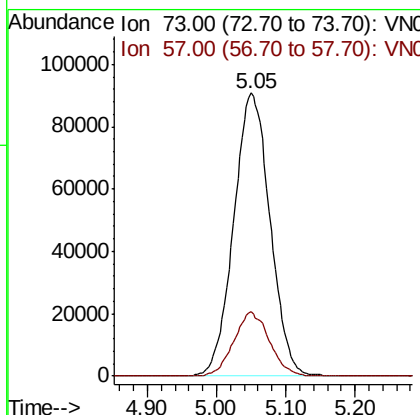
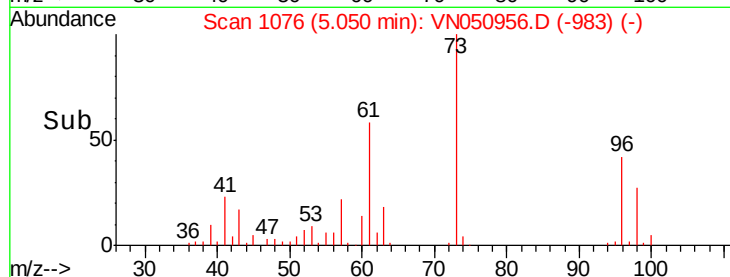
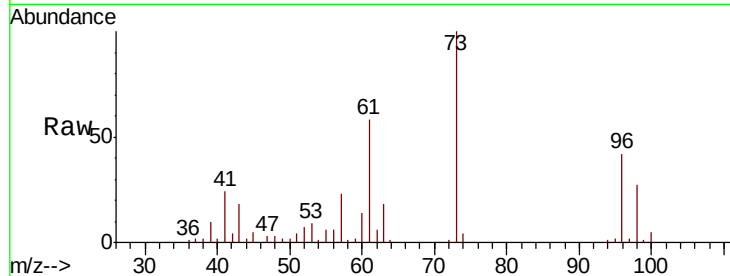
#19
Methvl tert-butvl Ether
Concen: 20.60 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	73	Resp	331104
Ion Ratio	100	Lower	Upper
57	22.8	17.8	26.8

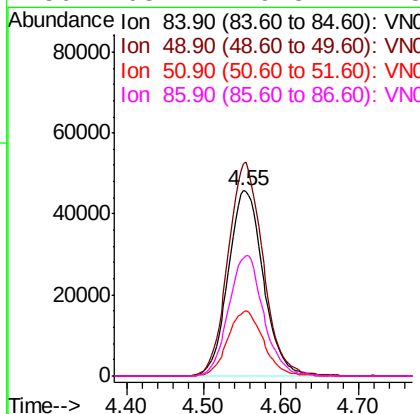
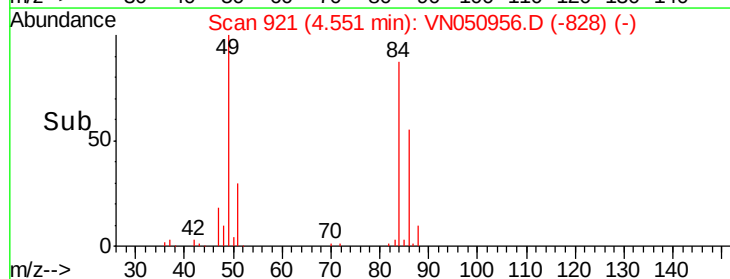
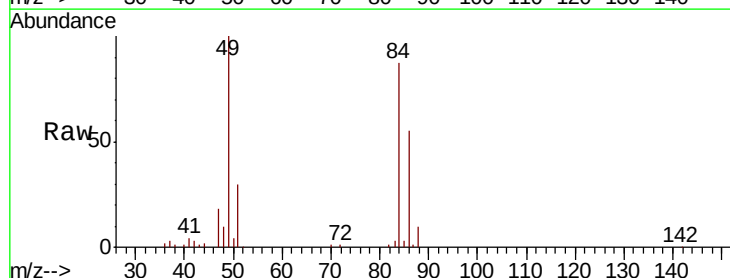
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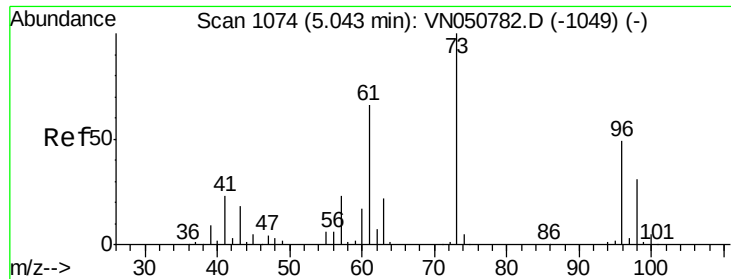
MMDadoda
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#20
Methylene Chloride
Concen: 18.66 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	84	Resp	144038
Ion Ratio	100	Lower	Upper
49	114.9	93.2	139.8
51	34.6	29.0	43.6
86	63.7	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 18.51 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

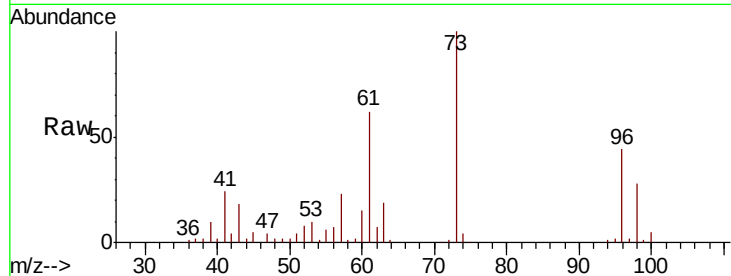
ClientSampled :

VN0830WBSD01

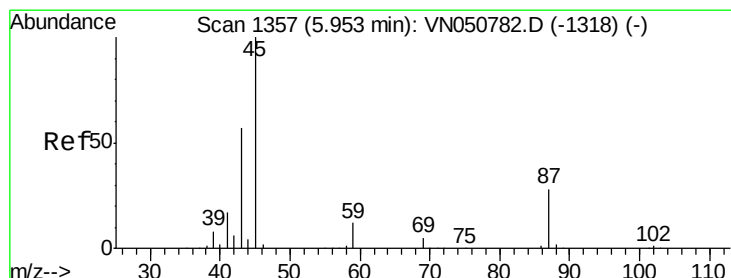
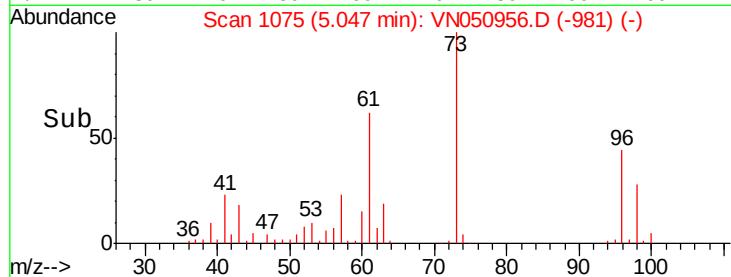
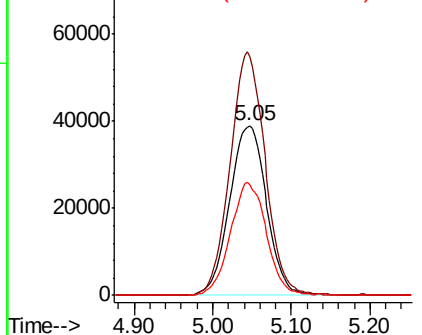
Tot Ion:	96	Resp:	127912
Ion	Ratio	Lower	Upper
96	100		
61	141.0	107.4	161.0
98	65.1	50.7	76.1

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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: 20.41 ug/l

RT: 5.96 min Scan# 1358

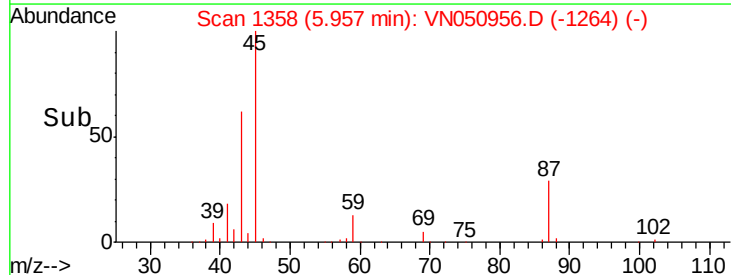
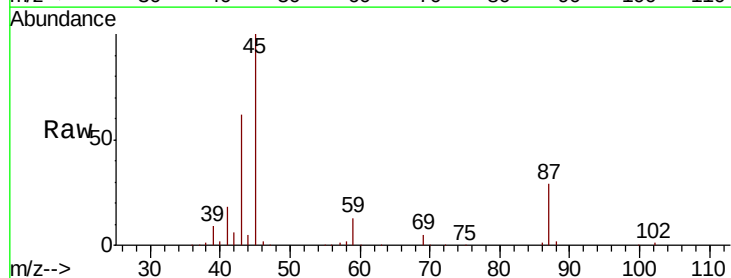
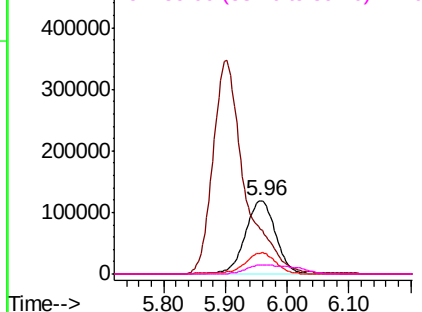
Delta R.T. 0.00 min

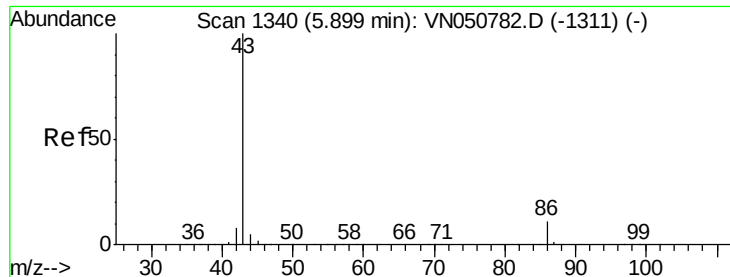
Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Tgt Ion:	45	Resp:	405054
Ion	Ratio	Lower	Upper
45	100		
43	60.4	45.9	68.9
87	28.5	22.7	34.1
59	12.6	9.3	13.9

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





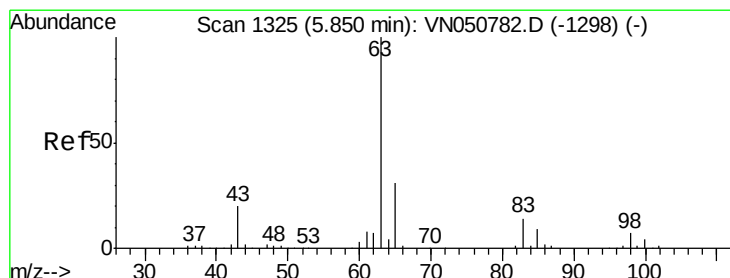
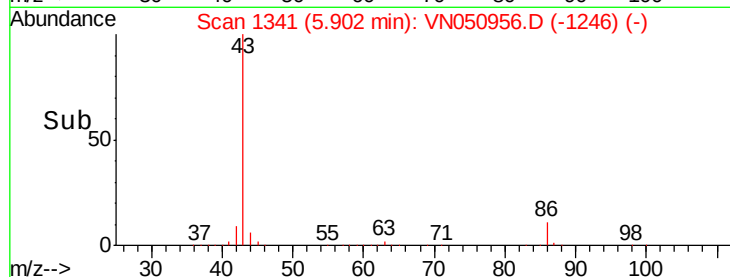
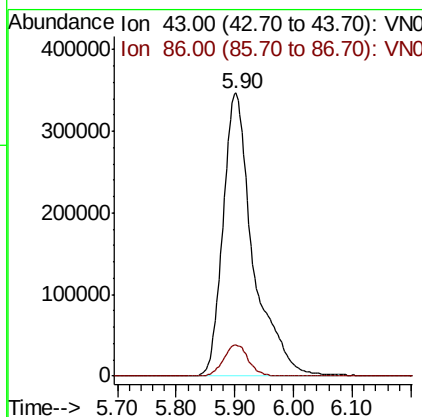
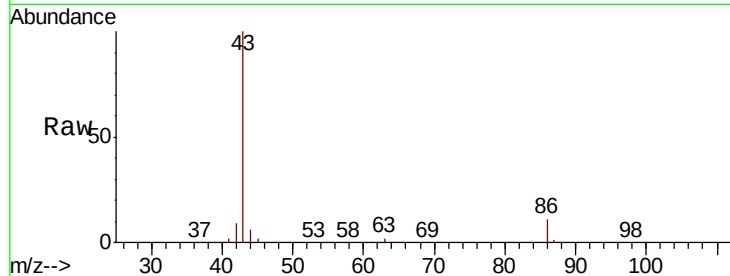
#23
 Vinyl Acetate
 Concen: 96.58 ug/l
 RT: 5.90 min Scan# 1341
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBSD01

Tot Ion: 43 Resp: 1234412
 Ion Ratio Lower Upper
 43 100
 86 10.8 8.7 13.1

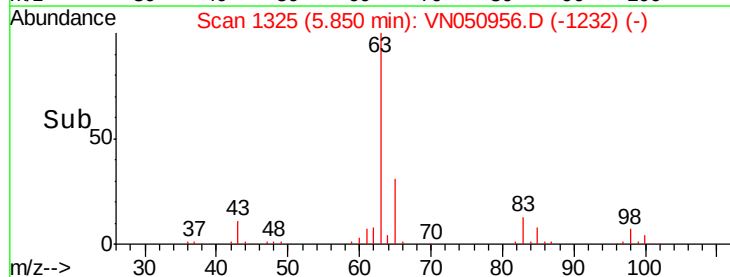
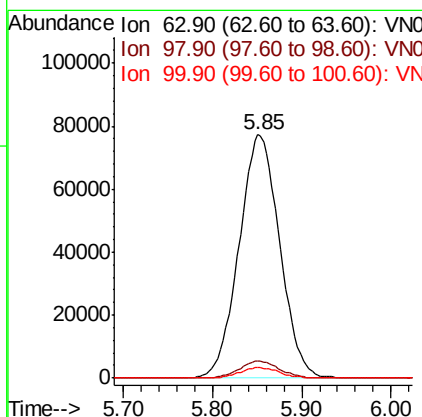
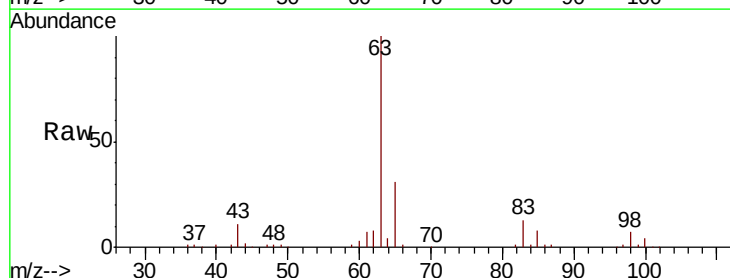
Manual Integrations
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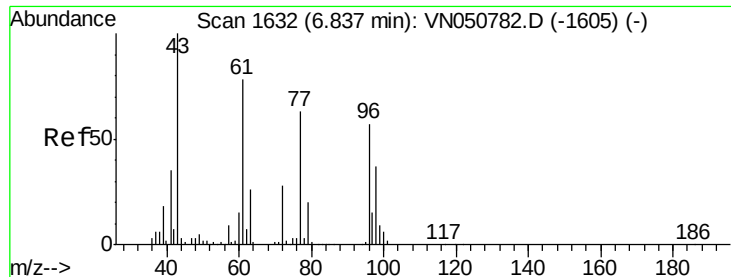
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 19.16 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion: 63 Resp: 244122
 Ion Ratio Lower Upper
 63 100
 98 6.8 3.3 9.8
 100 4.3 2.1 6.5





#25

2-Butanone

Concen: 91.89 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.01 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampled :

VN0830WBSD01

Tot Ion: 43 Resp: 253675

Ion Ratio Lower Upper

43 100

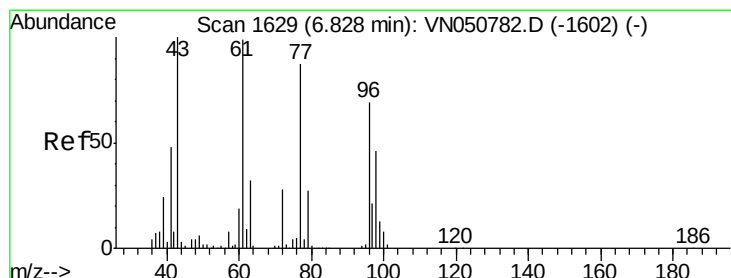
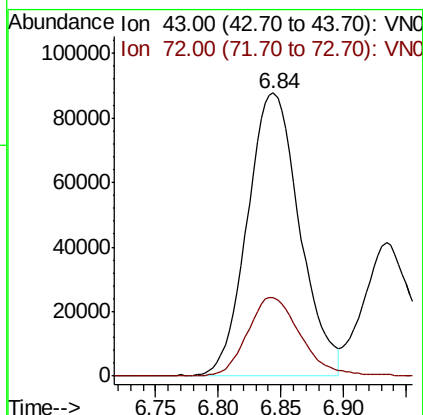
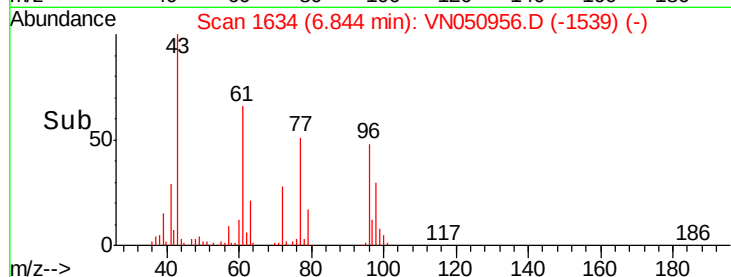
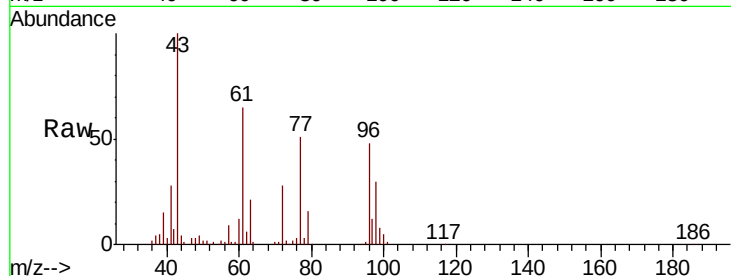
72 27.8 22.3 33.5

Manual Integrations

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8/31/2018 11:32:22 AM



#26

2,2-Dichloropropane

Concen: 18.35 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050956.D

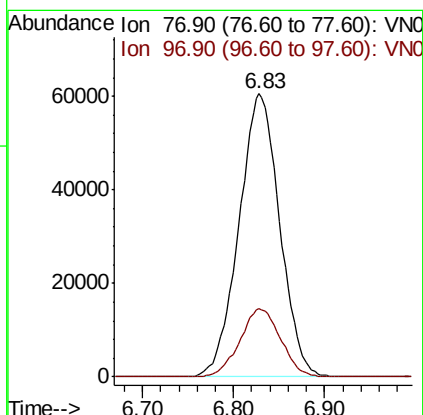
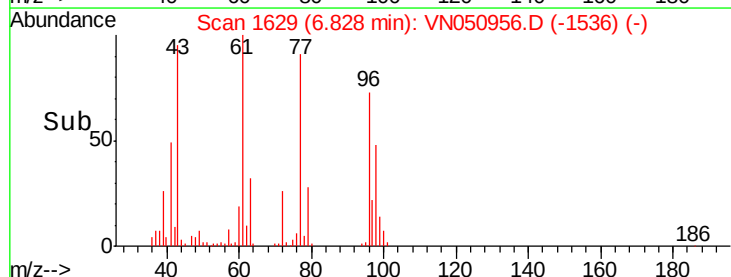
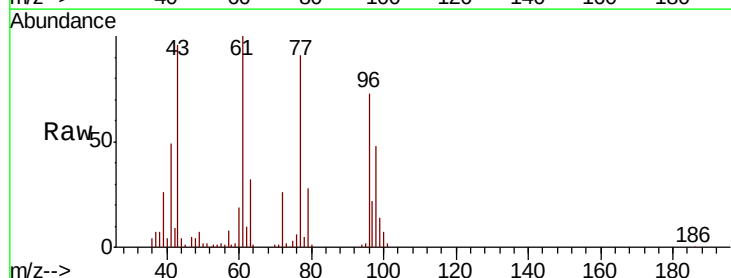
Acq: 30 Aug 2018 12:32

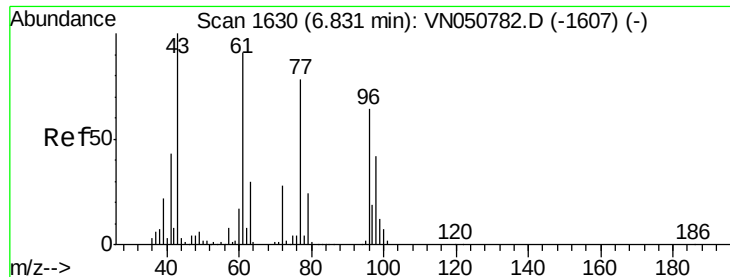
Tgt Ion: 77 Resp: 187870

Ion Ratio Lower Upper

77 100

97 24.0 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 19.30 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

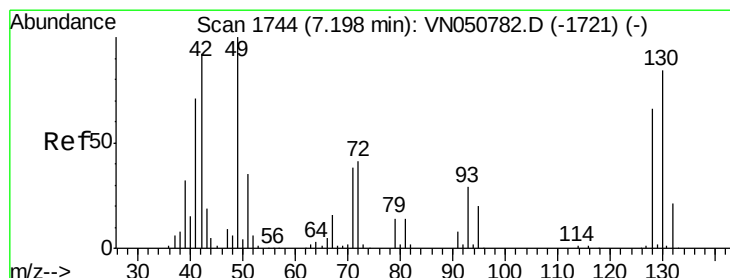
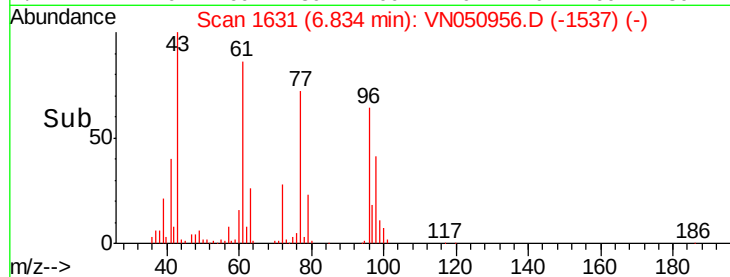
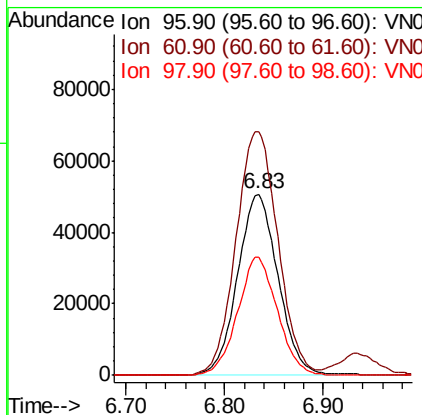
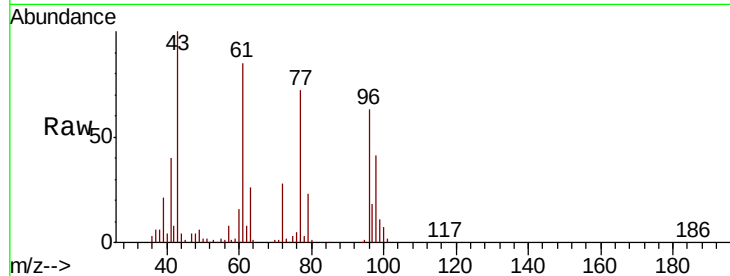
ClientSampleId :

VN0830WBSD01

Tot Ion:	96	Resp:	143859
Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	283.4
98	64.4	0.0	129.8

Manual Integrations
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#28

Bromochloromethane

Concen: 19.08 ug/l

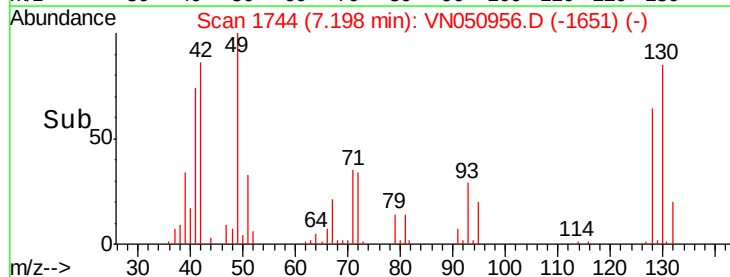
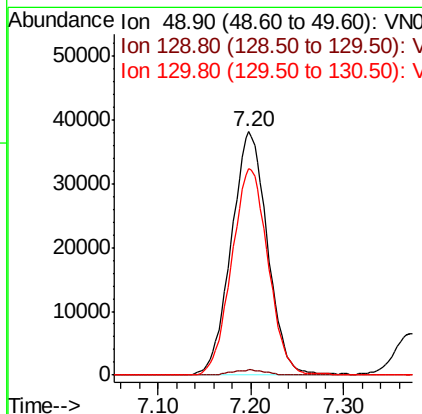
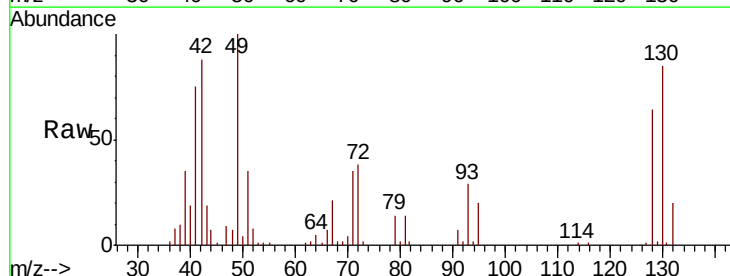
RT: 7.20 min Scan# 1744

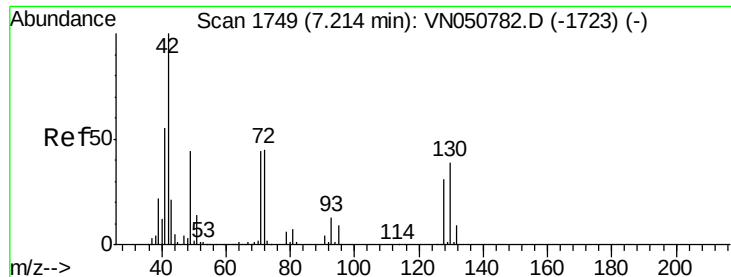
Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Tgt Ion:	49	Resp:	103302
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	85.4	67.1	100.7





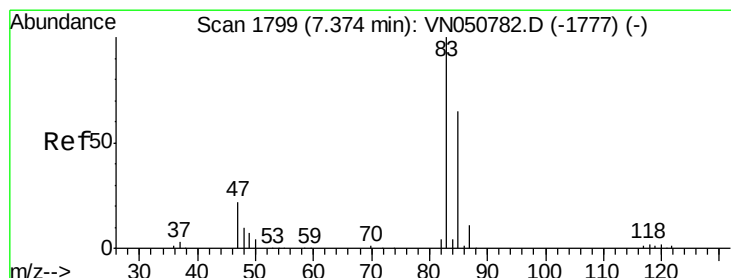
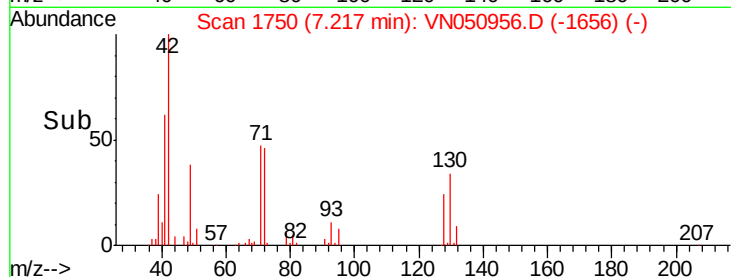
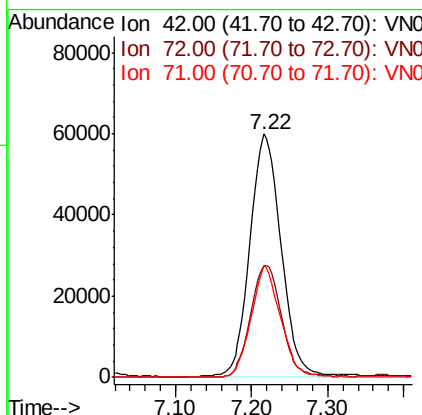
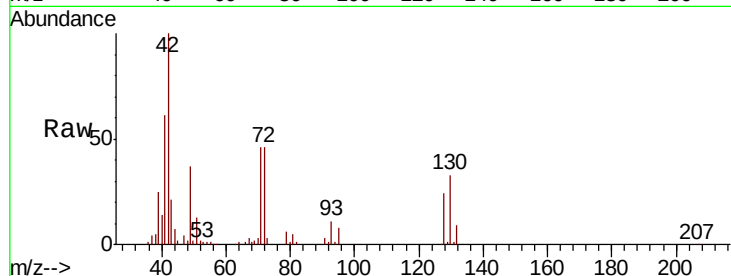
#29
Tetrahydrofuran
Concen: 107.50 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.1	35.5	53.3
71	43.5	33.7	50.5

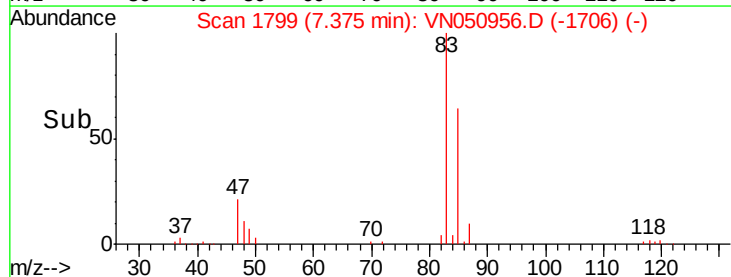
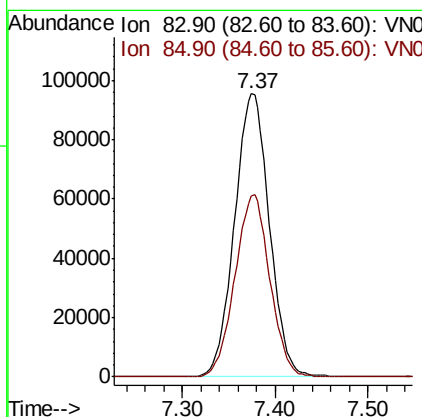
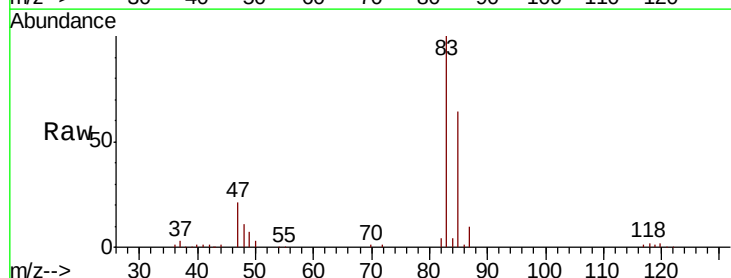
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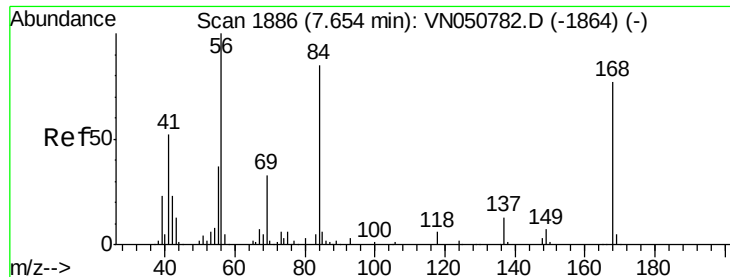
MMDadoda
8/31/2018 11:32:22 AM



#30
Chloroform
Concen: 19.73 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.2	78.4





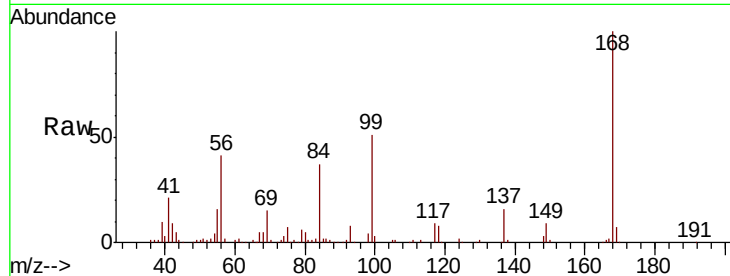
#31
Cyclohexane
Concen: 18.10 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampled :
VN0830WBSD01

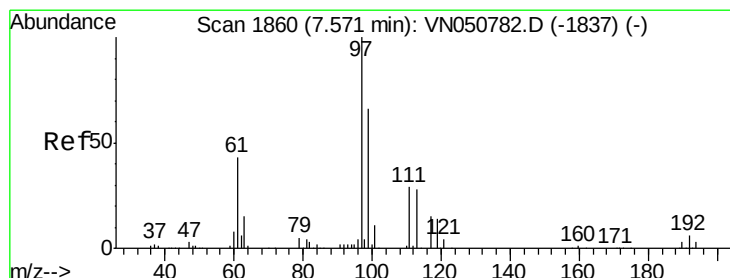
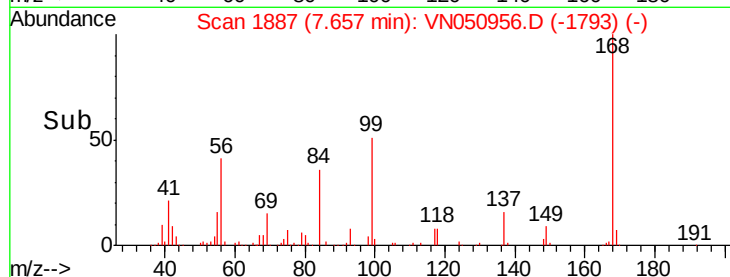
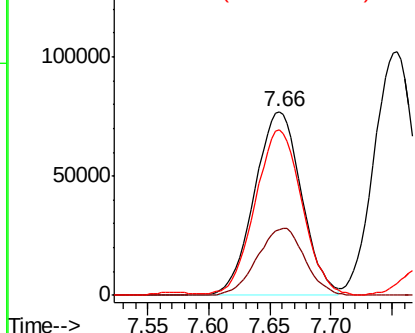
Tot Ion	Ratio	Lower	Upper
56	100		
69	35.9	26.2	39.4
84	88.7	68.3	102.5

Manual Integrations
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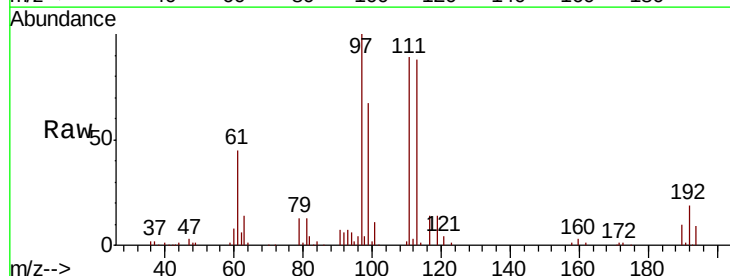


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

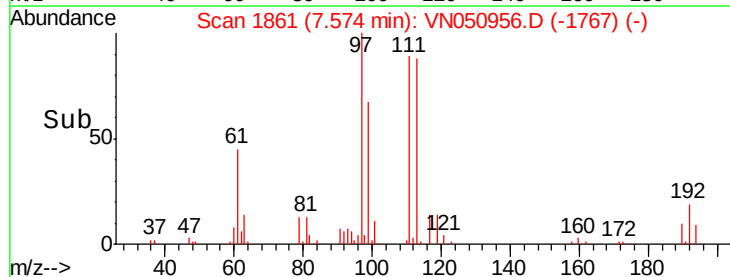
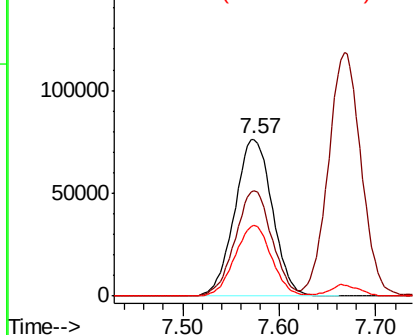


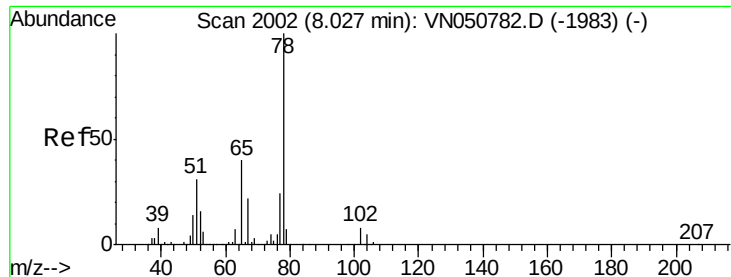
#32
1,1,1-Trichloroethane
Concen: 19.03 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.8	77.6
61	43.8	34.9	52.3



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





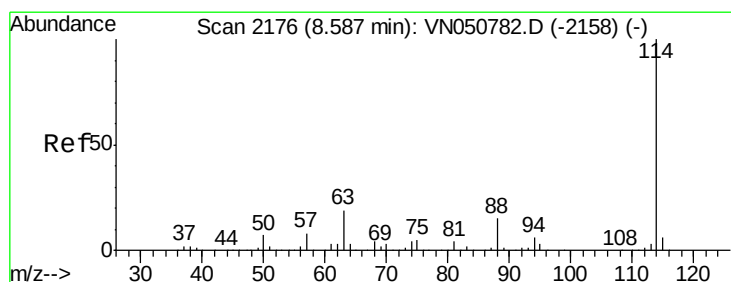
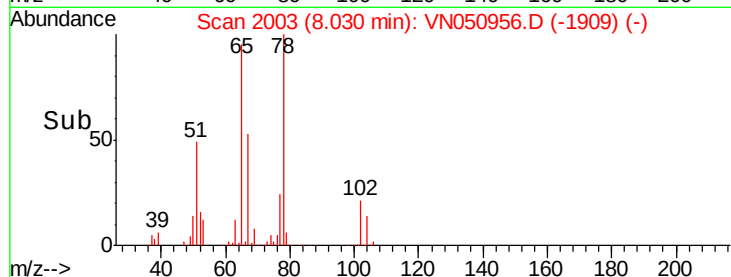
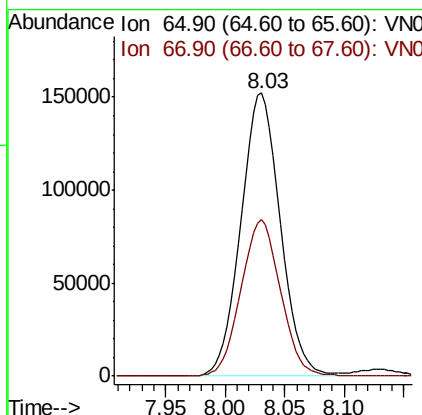
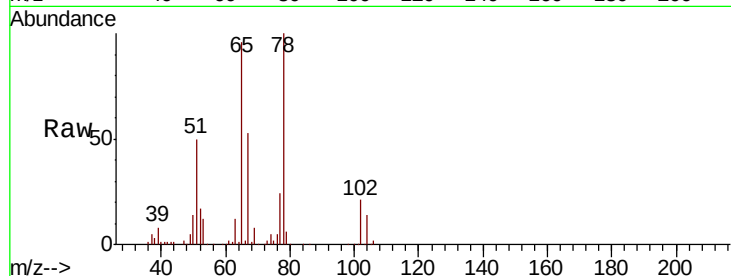
#33
 1,2-Dichloroethane-d4
 Concen: 51.02 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampled :
 VN0830WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	349488		
67	55.5	0.0	110.4	

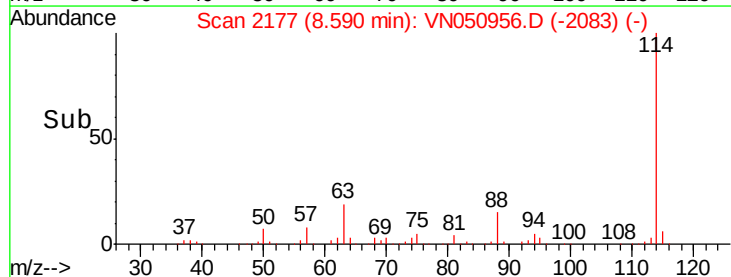
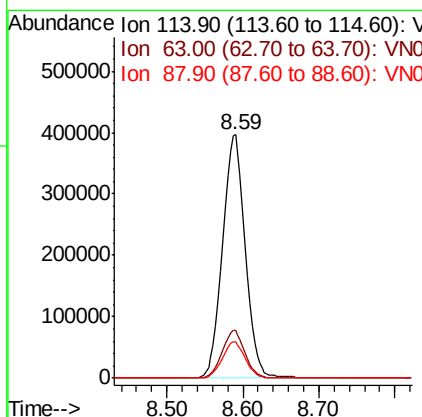
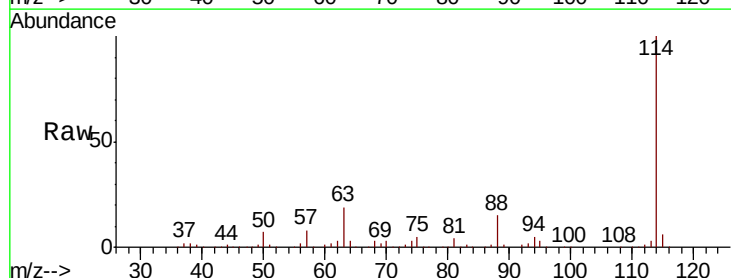
Manual Integrations
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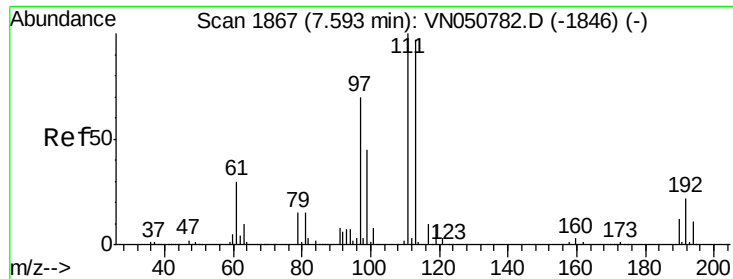
MMDadoda
 8/31/2018 11:32:22 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	826333		
63	19.5	0.0	38.6	
88	14.8	0.0	30.6	





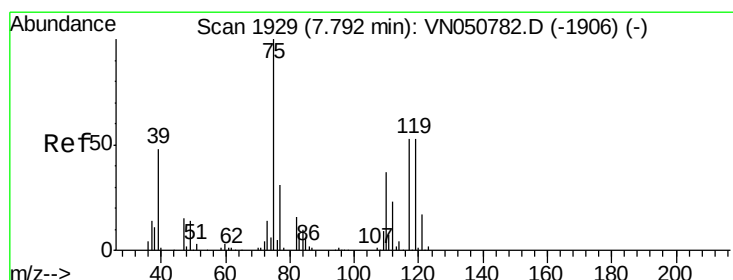
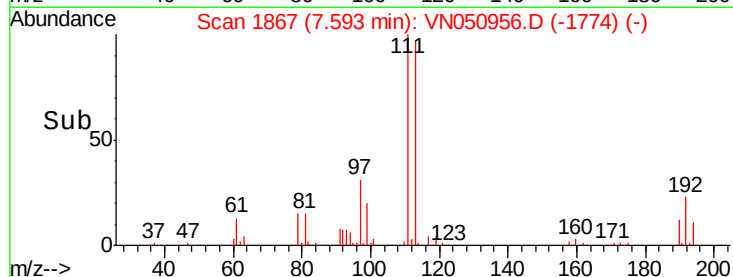
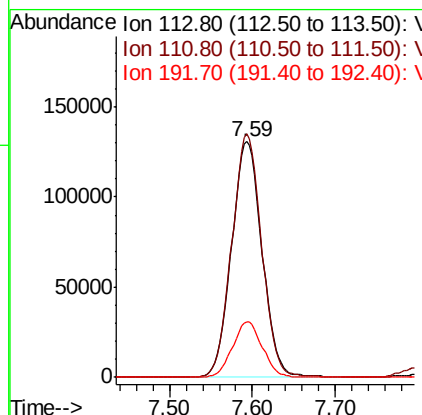
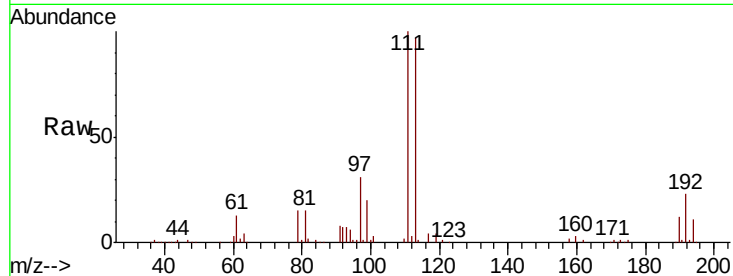
#35
 Dibromofluoromethane
 Concen: 50.86 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampled :
 VN0830WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.5	82.6	123.8	
192	23.1	18.0	27.0	

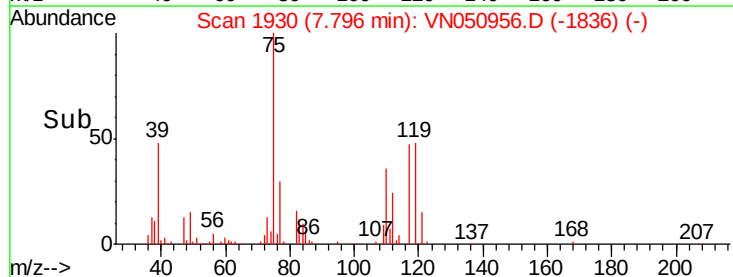
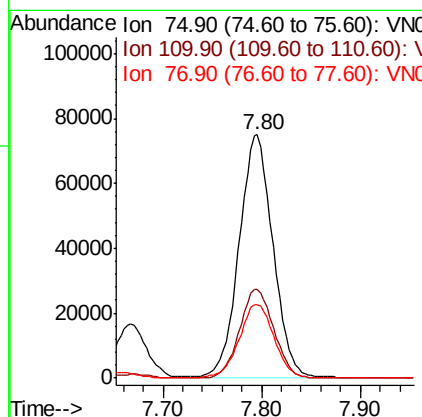
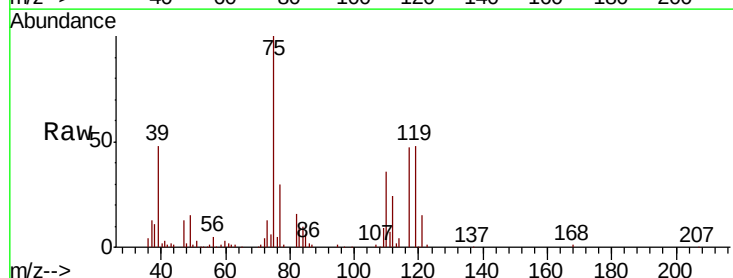
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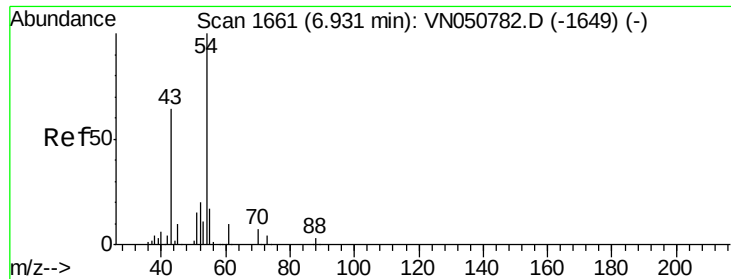
MMDadoda
 8/31/2018 11:32:22 AM



#36
 1,1-Dichloropropene
 Concen: 18.23 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.9	18.1	54.4	
77	31.3	24.8	37.2	





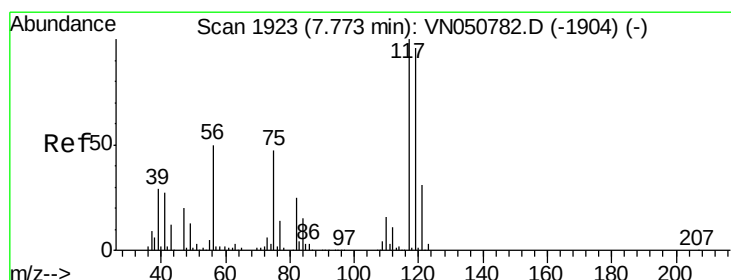
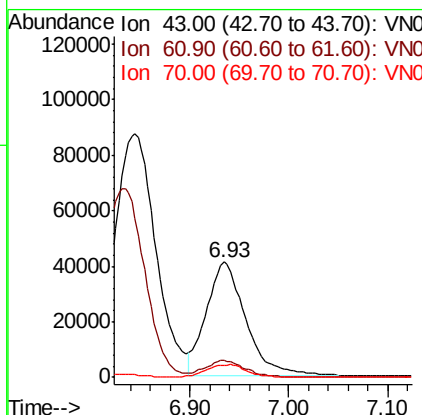
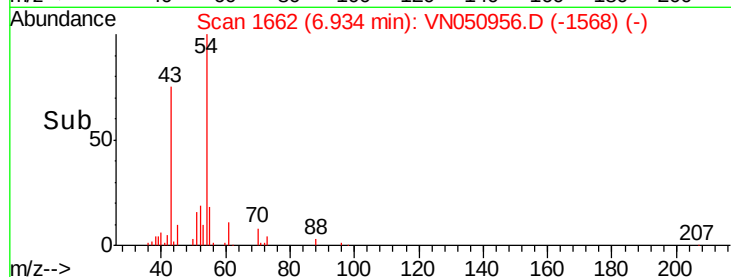
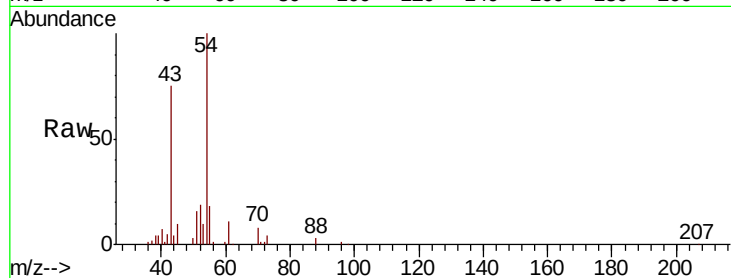
#37
Ethyl Acetate
Concen: 20.34 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampled :
VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	12.0	18.0
70	11.6	8.6	13.0

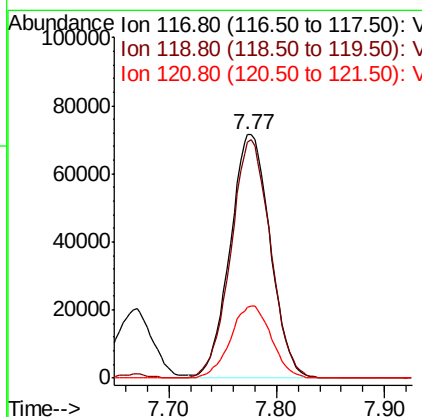
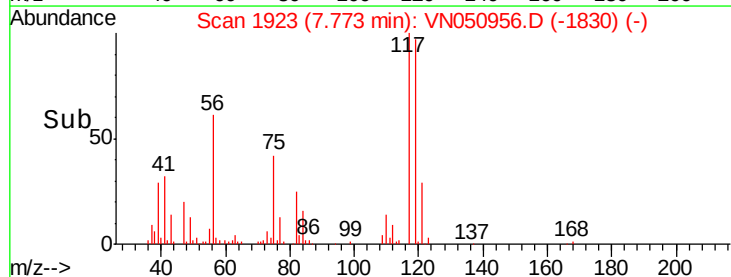
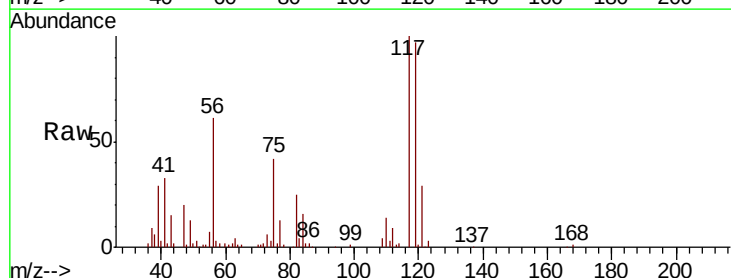
Manual Integrations
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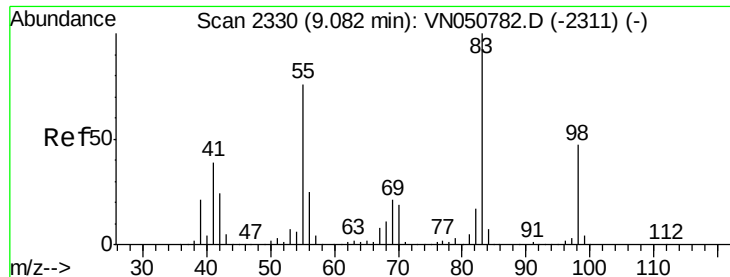
MMDadoda
8/31/2018 11:32:22 AM



#38
Carbon Tetrachloride
Concen: 18.78 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.3	114.5
121	28.8	24.6	36.8





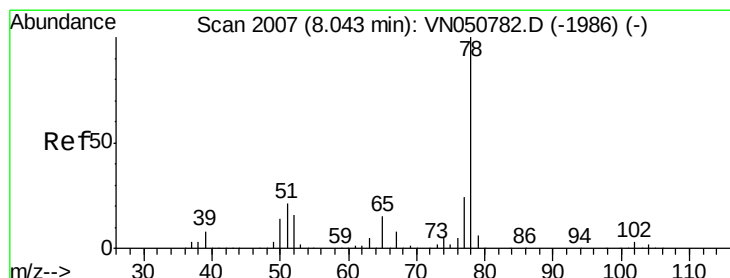
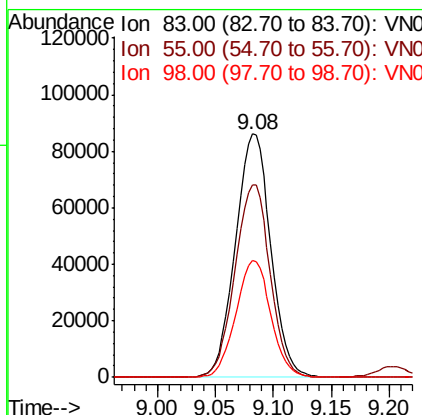
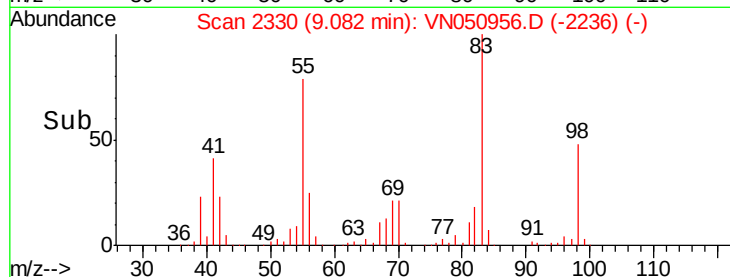
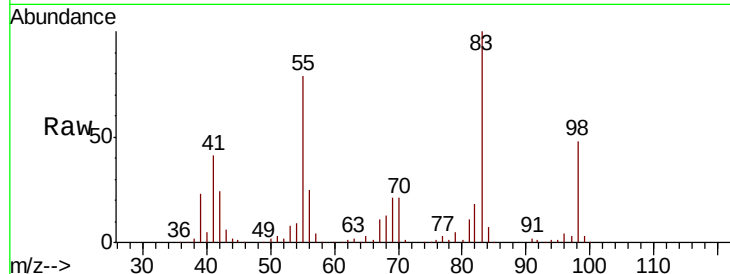
#39
Methylvlcyclohexane
Concen: 17.25 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	182020		
55	79.3		61.0	91.4
98	47.9		37.5	56.3

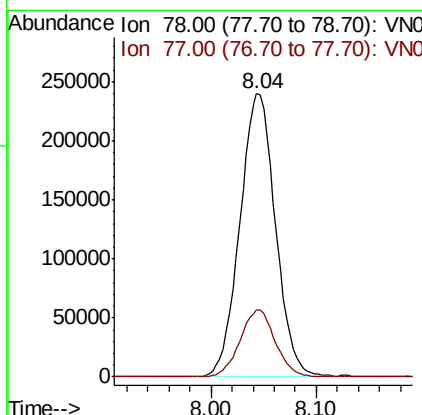
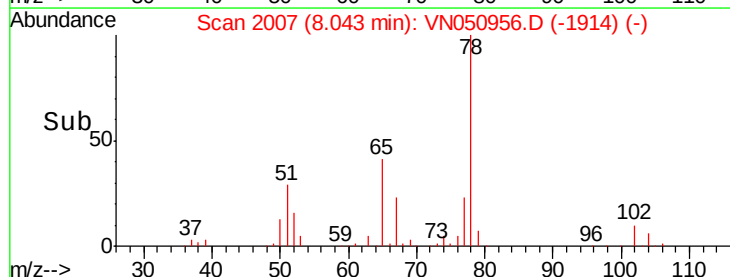
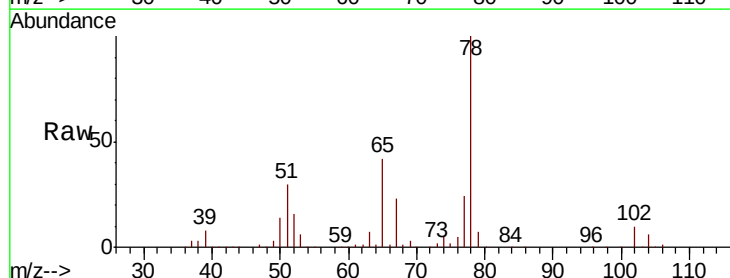
Manual Integrations
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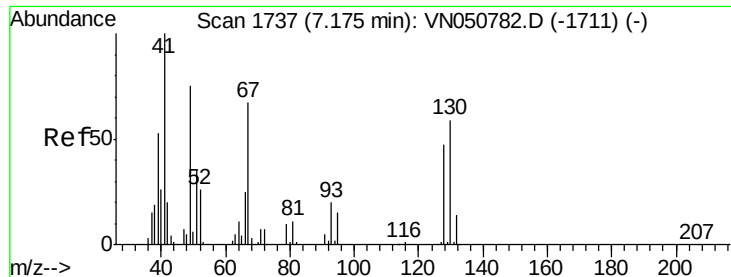
MMDadoda
8/31/2018 11:32:22 AM



#40
Benzene
Concen: 19.14 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	562913		
77	23.5		19.0	28.4





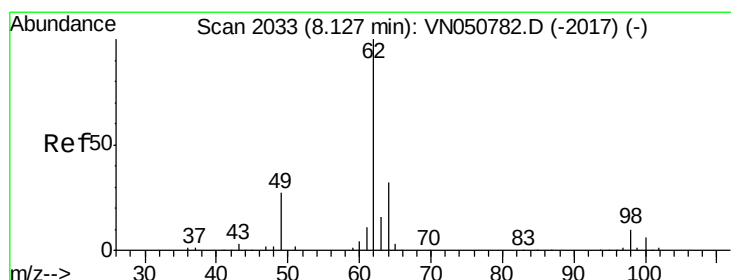
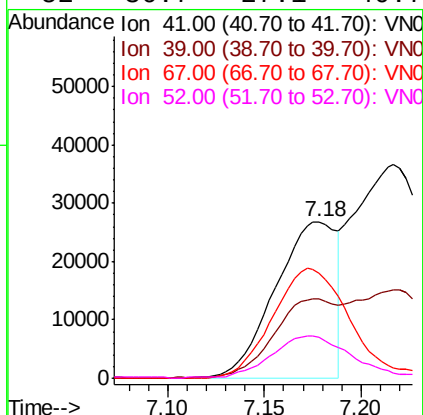
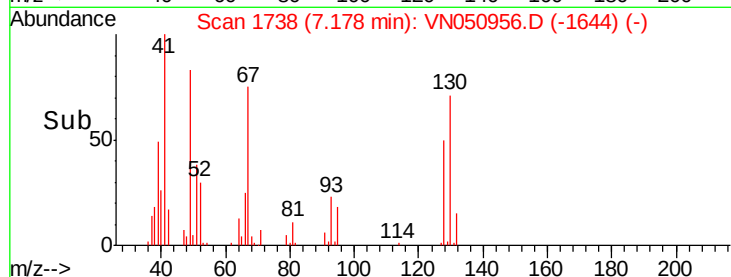
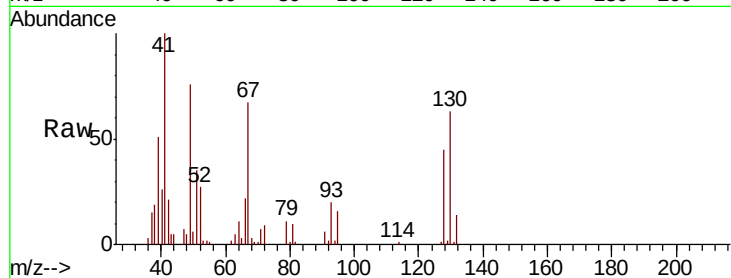
#41
Methacrylonitrile
Concen: 19.56 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	41	Resp	59304
Ion	Ratio	Lower	Upper
41	100		
39	51.1	45.4	68.0
67	88.5	70.6	106.0
52	36.7	27.1	40.7

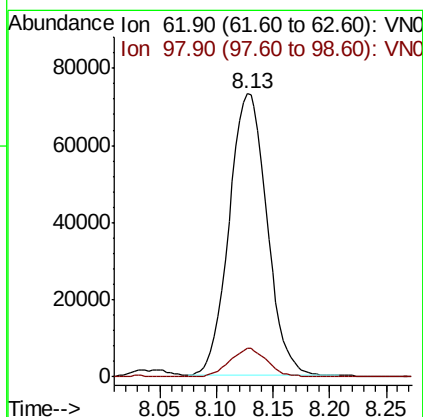
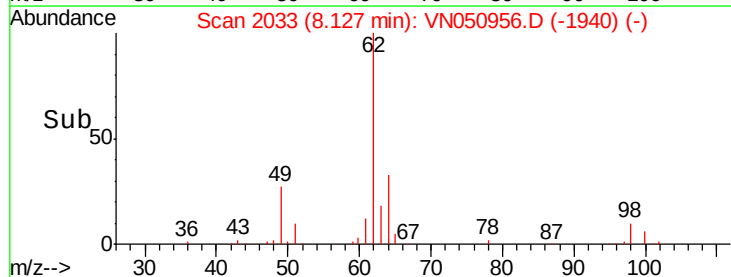
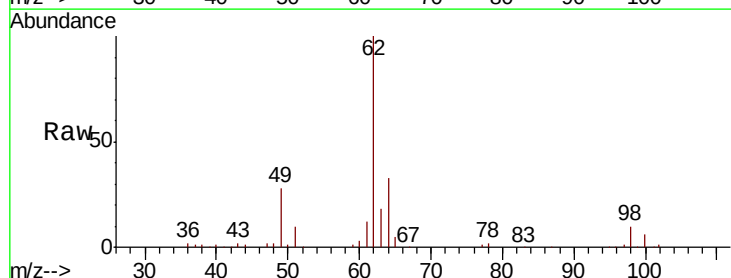
Manual Integrations
APPROVED

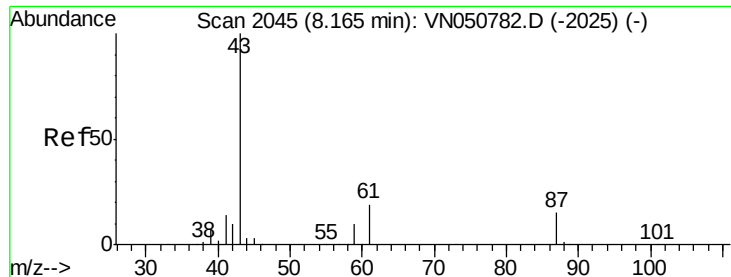
MMDadoda
8/31/2018 11:32:22 AM



#42
1,2-Dichloroethane
Concen: 19.37 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	62	Resp	170313
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.6





#43

Isopropyl Acetate

Concen: 20.96 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

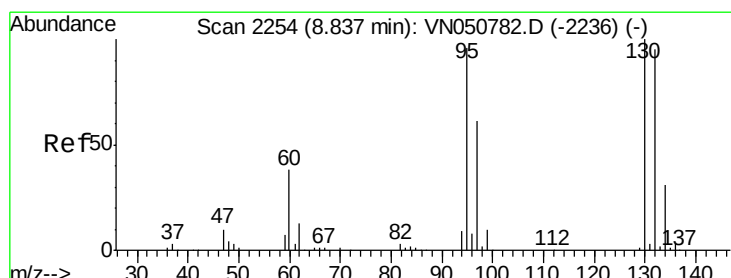
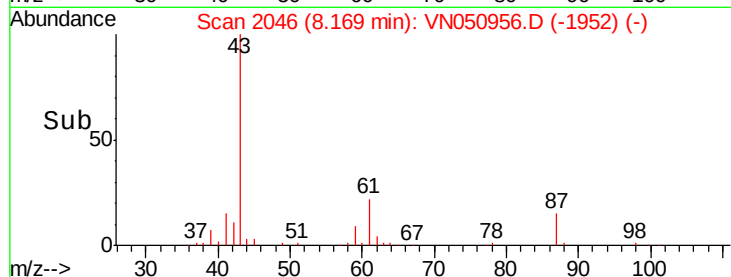
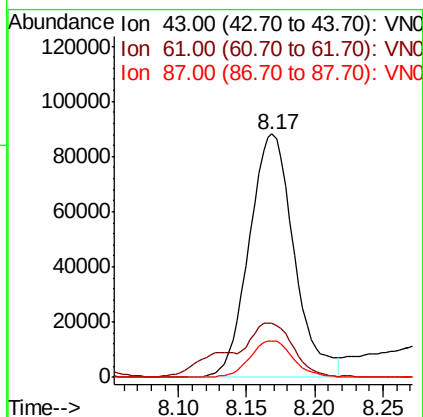
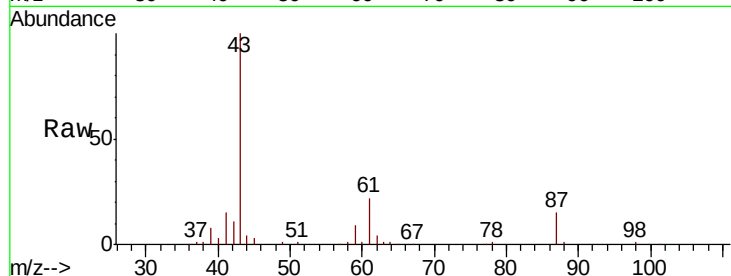
ClientSampleId :

VN0830WBSD01

Tot Ion:	43	Resp:	201821
Ion	Ratio	Lower	Upper
43	100		
61	21.1	17.5	26.3
87	14.4	11.3	16.9

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#44

Trichloroethene

Concen: 18.52 ug/l

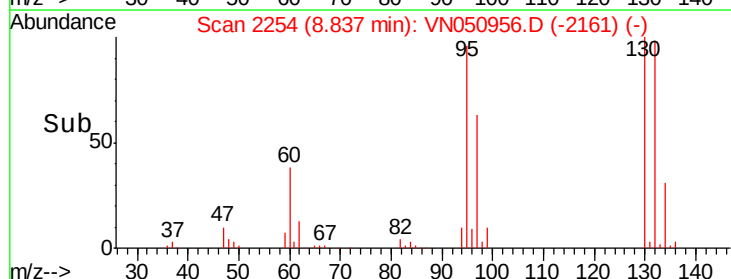
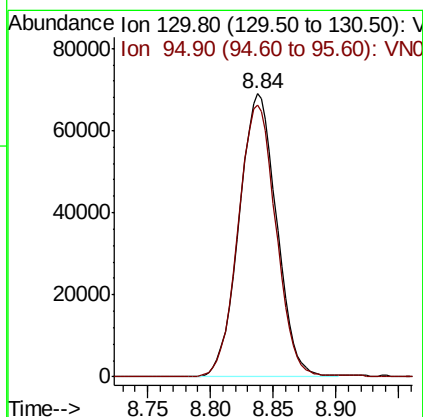
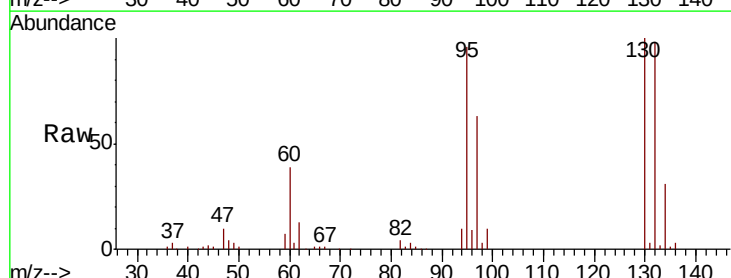
RT: 8.84 min Scan# 2254

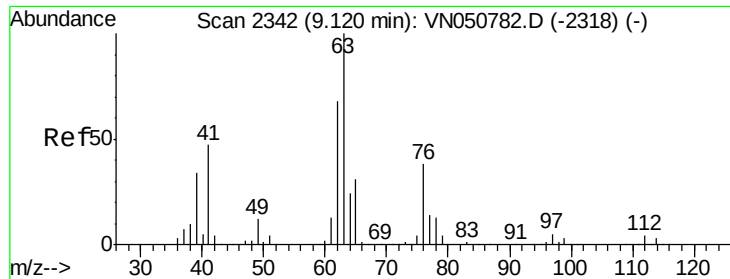
Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Tgt Ion:	130	Resp:	143639
Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	193.0





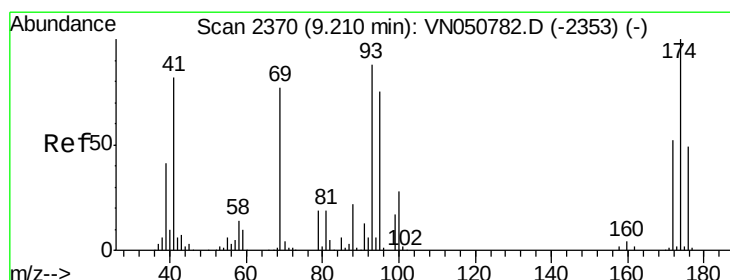
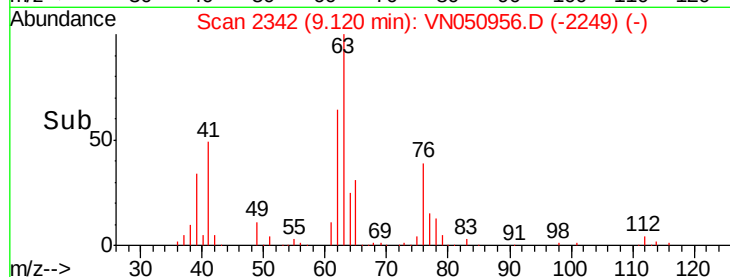
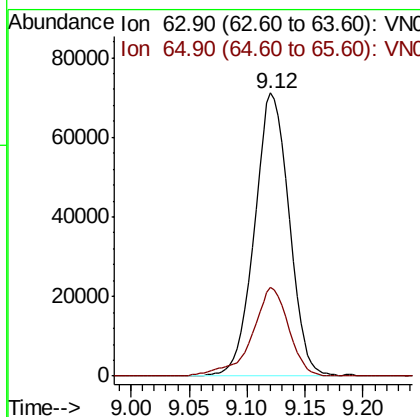
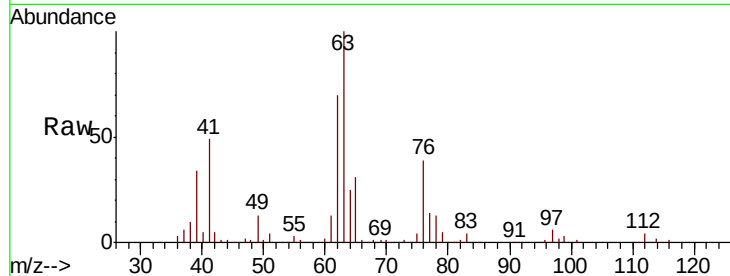
#45
 1,2-Dichloropropane
 Concen: 19.16 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampled :
 VN0830WBSD01

Tot Ion: 63 Resp: 148036
 Ion Ratio Lower Upper
 63 100
 65 31.2 25.0 37.6

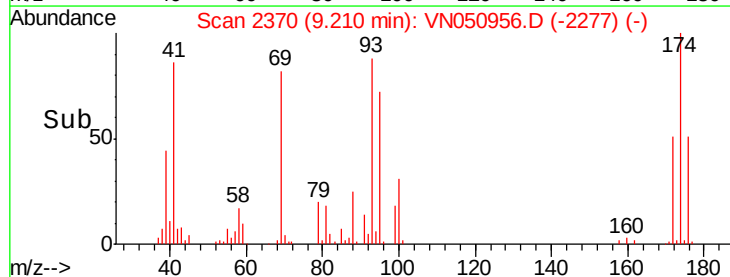
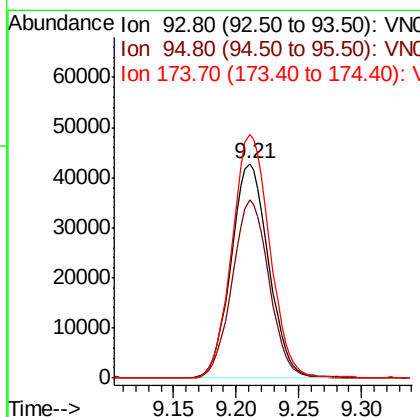
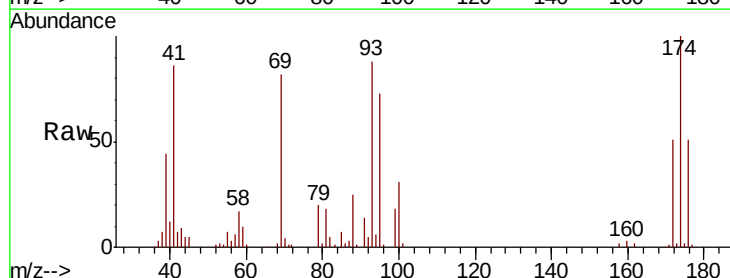
Manual Integrations
 APPROVED

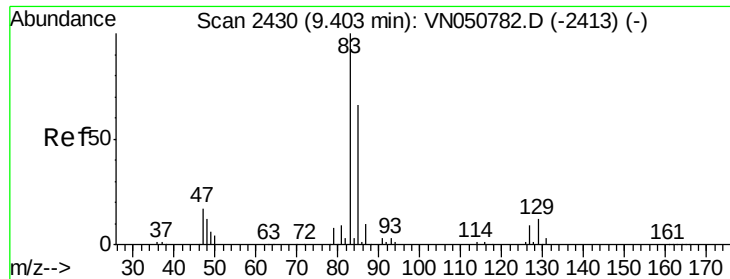
MMDadoda
 8/31/2018 11:32:22 AM



#46
 Dibromomethane
 Concen: 19.60 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion: 93 Resp: 88984
 Ion Ratio Lower Upper
 93 100
 95 82.1 66.7 100.1
 174 114.2 89.8 134.6





#47

Bromodichloromethane

Concen: 19.55 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

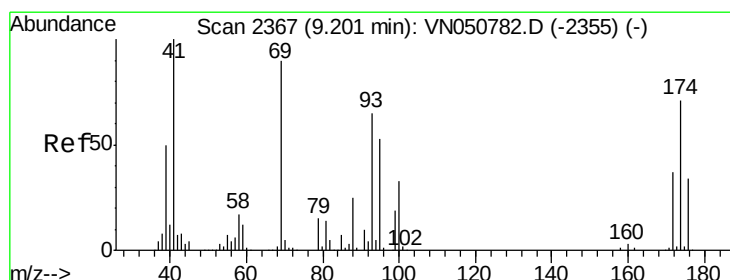
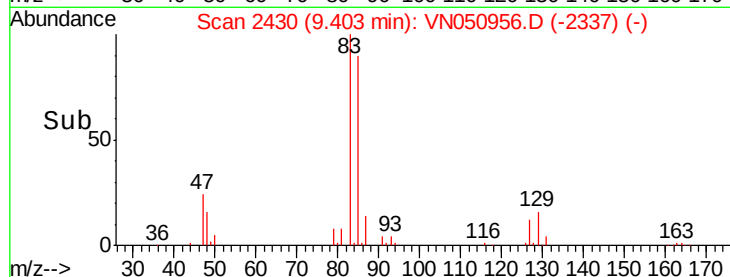
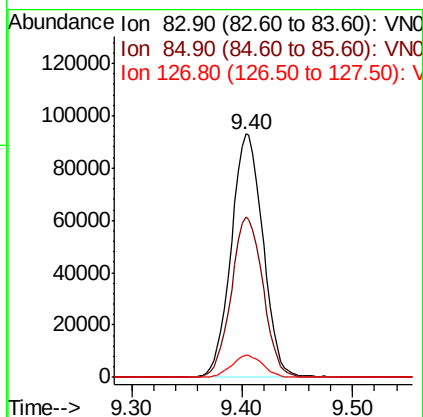
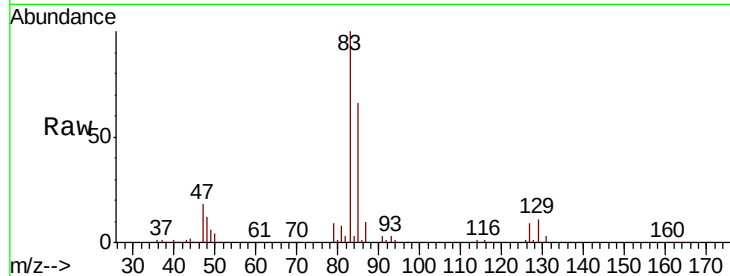
ClientSampleId :

VN0830WBSD01

Tot Ion:	83	Resp:	185946
Ion Ratio	Lower	Upper	
83	100		
85	65.7	52.6	78.8
127	9.0	7.2	10.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.54 ug/l

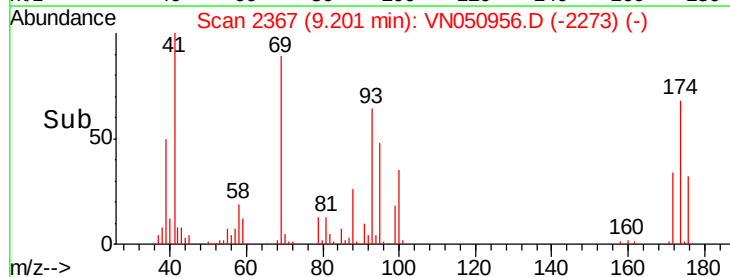
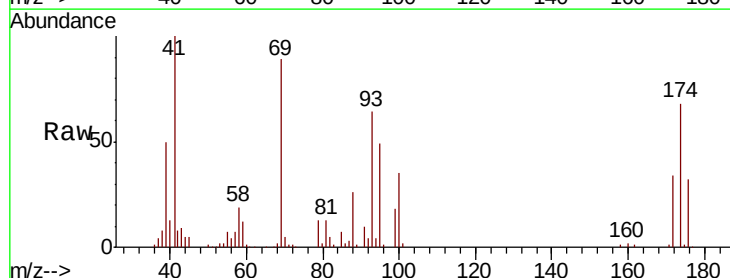
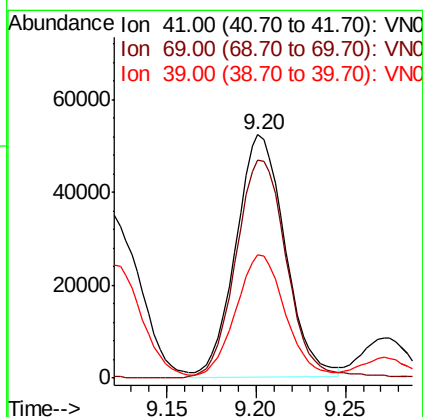
RT: 9.20 min Scan# 2367

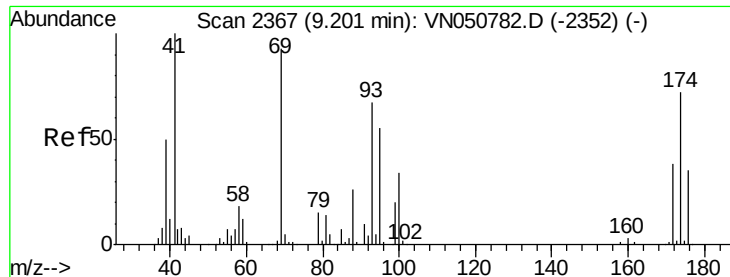
Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Tgt Ion:	41	Resp:	100801
Ion Ratio	Lower	Upper	
41	100		
69	93.4	74.7	112.1
39	50.0	42.2	63.2





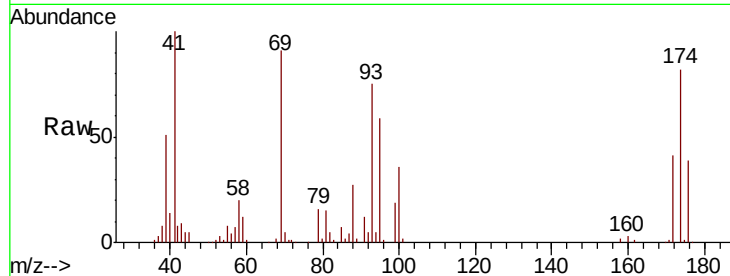
#49
1,4-Dioxane
Concen: 436.54 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampled :
VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.3	25.9	38.9
58	72.3	55.0	82.4

Manual Integrations
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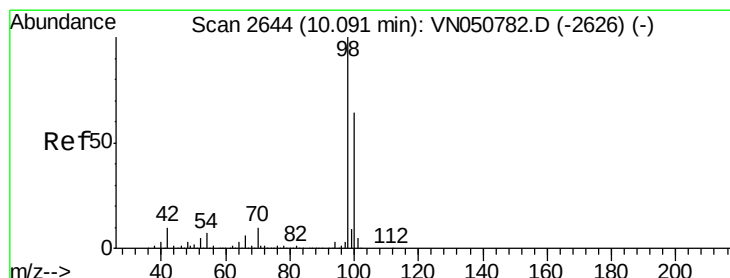
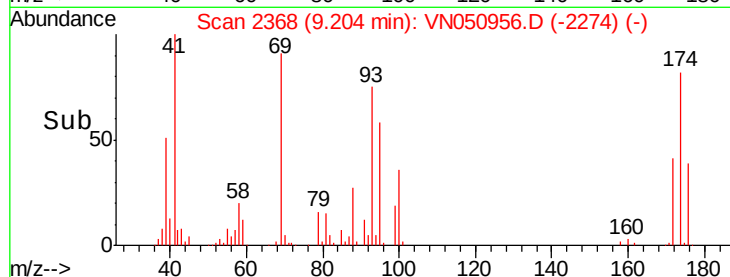
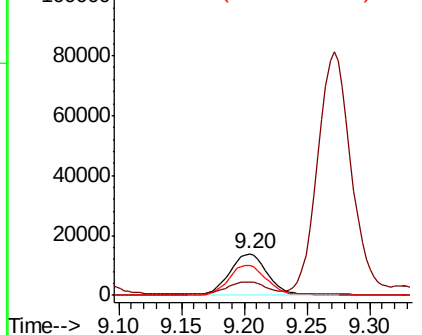


Abundance

Ion 88.00 (87.70 to 88.70): VN0

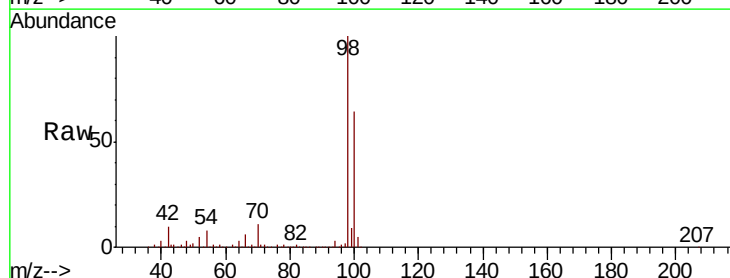
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 50.00 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

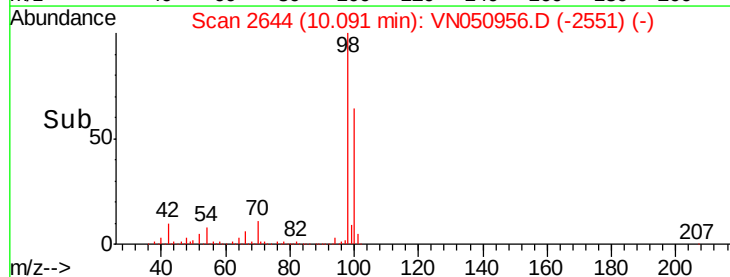
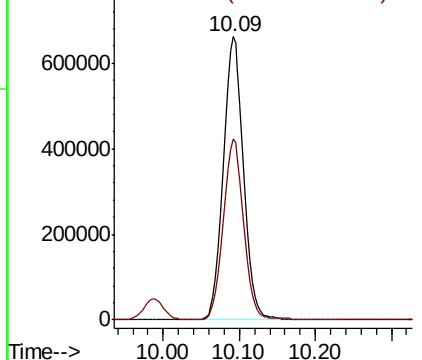
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3

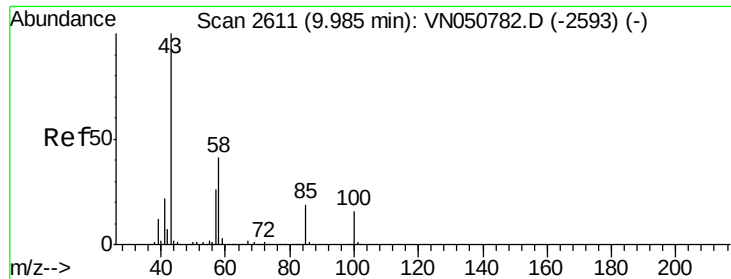


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 102.16 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampled :

VN0830WBSD01

Tot Ion: 43 Resp: 587126

Ion Ratio Lower Upper

43 100

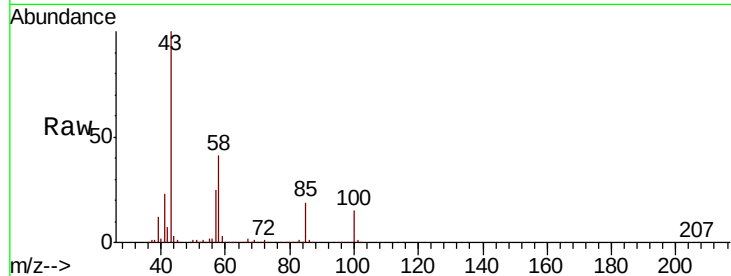
58 40.6 32.4 48.6

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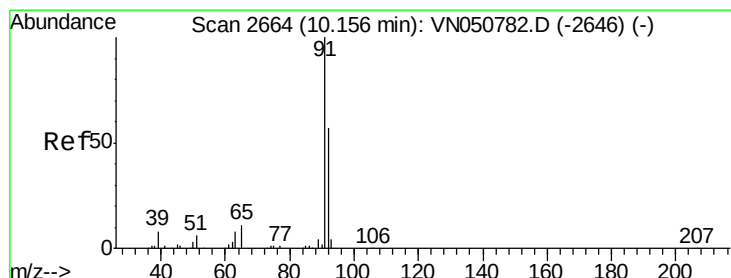
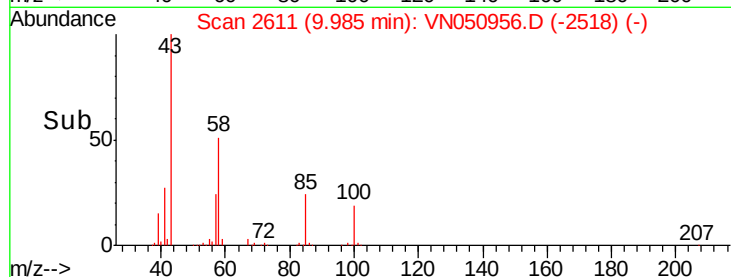
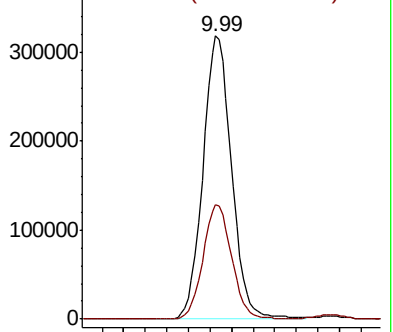
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.86 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN050956.D

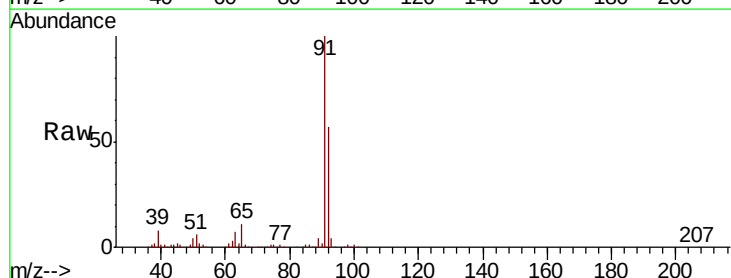
Acq: 30 Aug 2018 12:32

Tgt Ion: 92 Resp: 345962

Ion Ratio Lower Upper

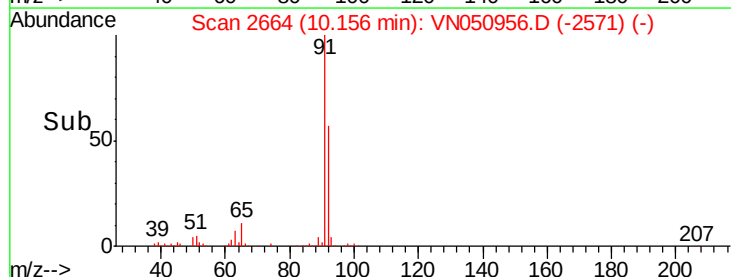
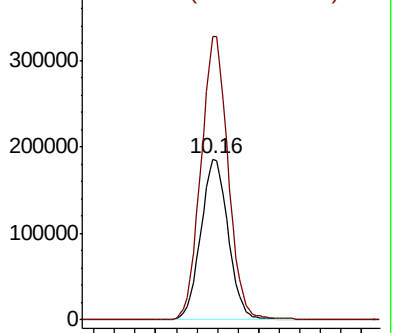
92 100

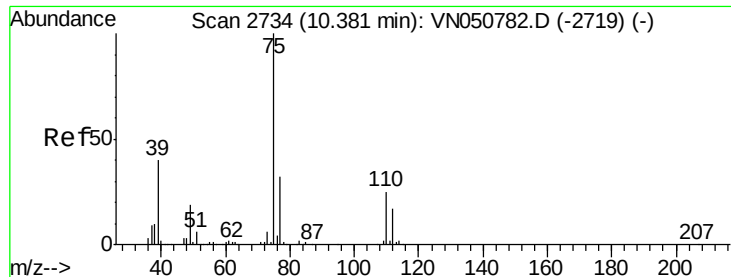
91 174.8 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





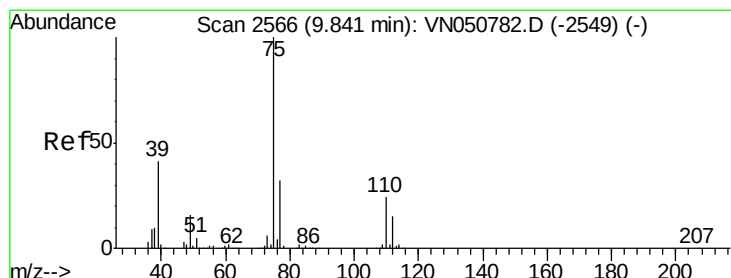
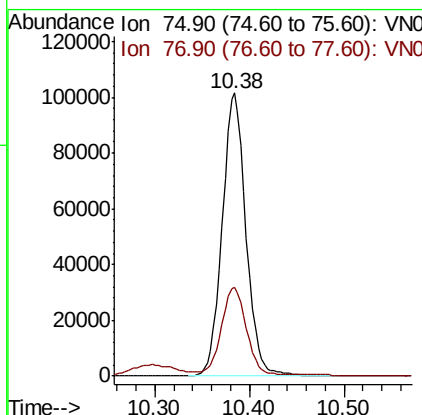
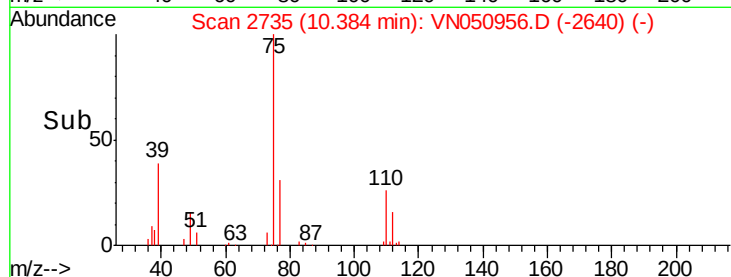
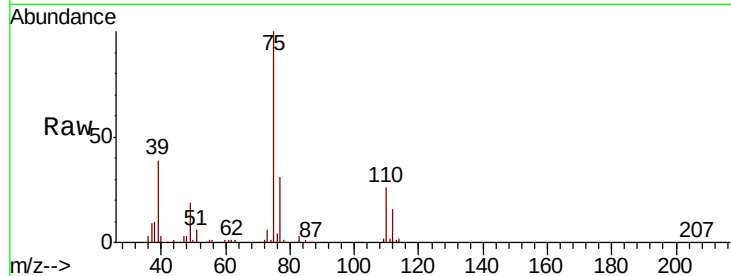
#53
t-1,3-Dichloropropene
Concen: 18.70 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampled :
VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.7	38.5

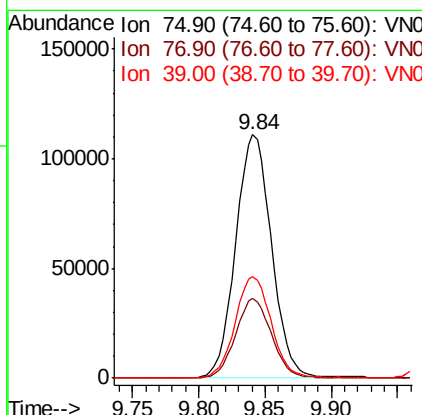
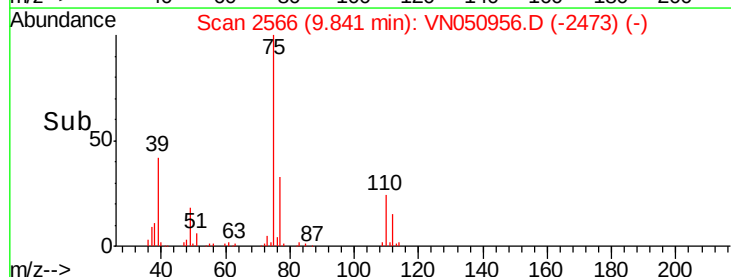
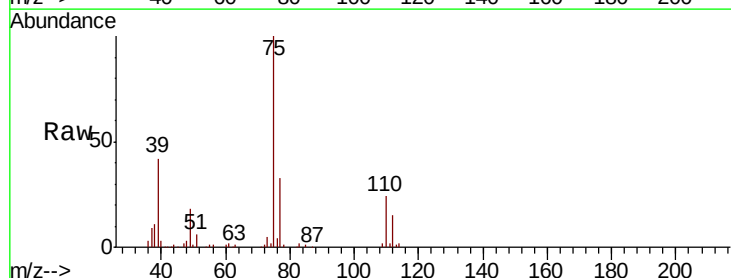
Manual Integrations
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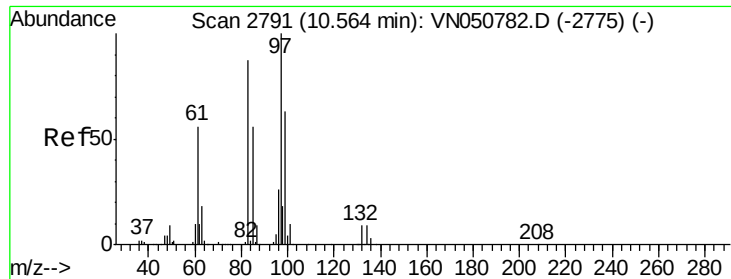
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8/31/2018 11:32:22 AM



#54
cis-1,3-Dichloropropene
Concen: 19.25 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.2
39	41.7	33.0	49.4





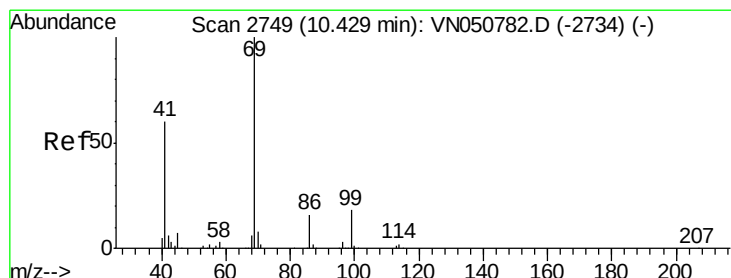
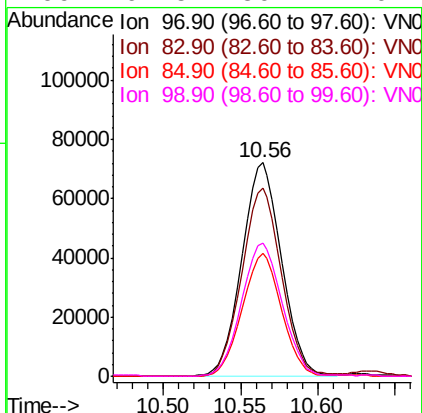
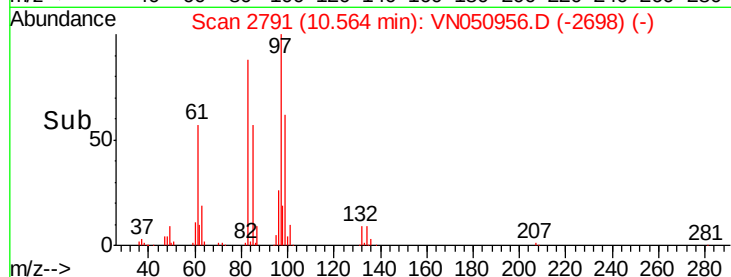
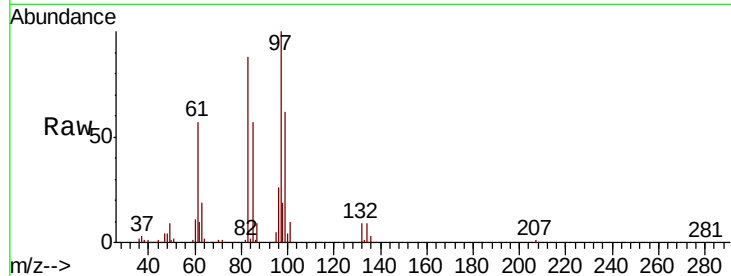
#55
 1,1,2-Trichloroethane
 Concen: 19.92 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		128788		
83	87.9	69.7	104.5		
85	57.4	44.5	66.7		
99	62.5	50.7	76.1		

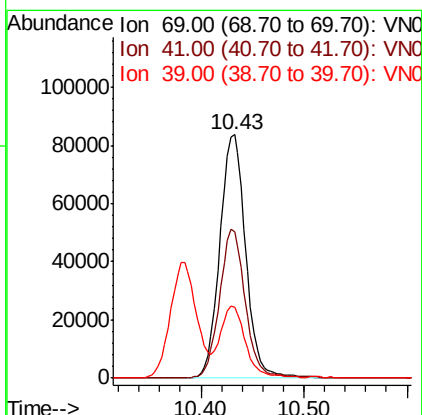
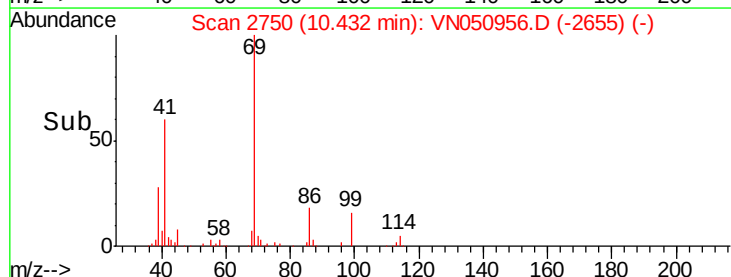
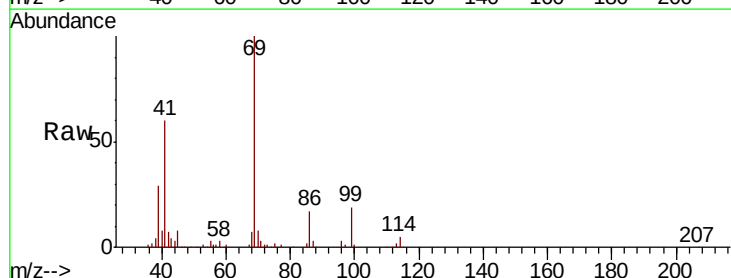
Manual Integrations
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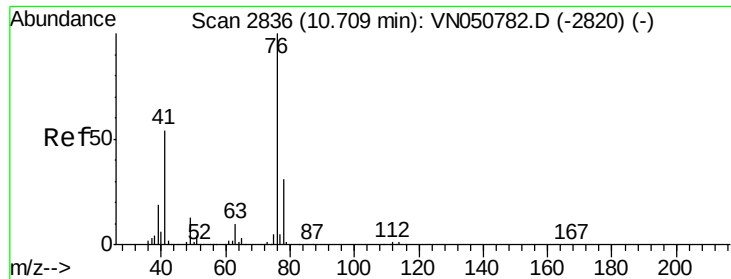
MMDadoda
 8/31/2018 11:32:22 AM



#56
 Ethyl methacrylate
 Concen: 18.93 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		146302		
41	59.9	48.3	72.5		
39	28.6	24.0	36.0		





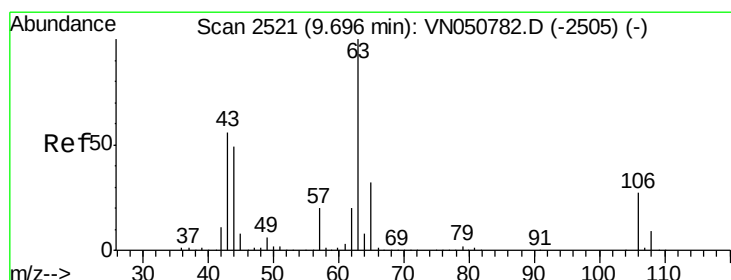
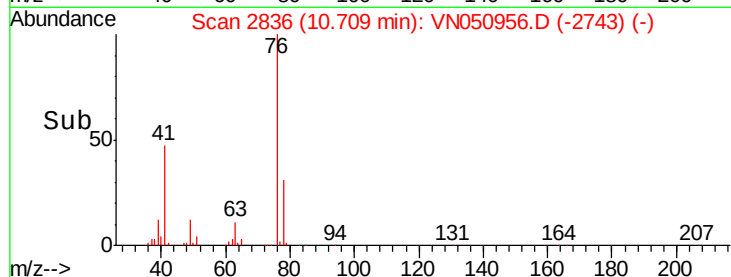
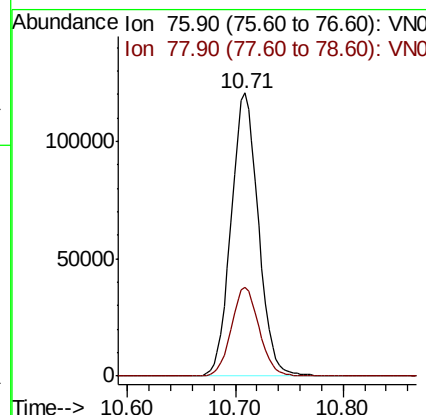
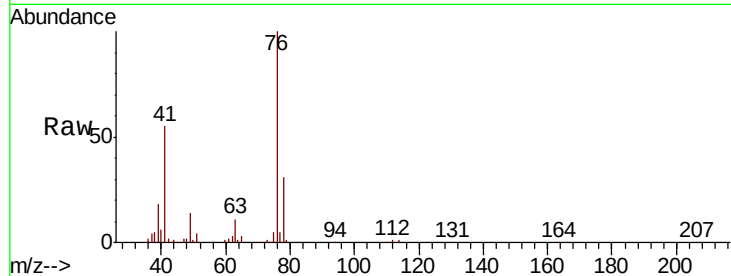
#57
 1,3-Dichloropropane
 Concen: 19.98 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.5	38.3

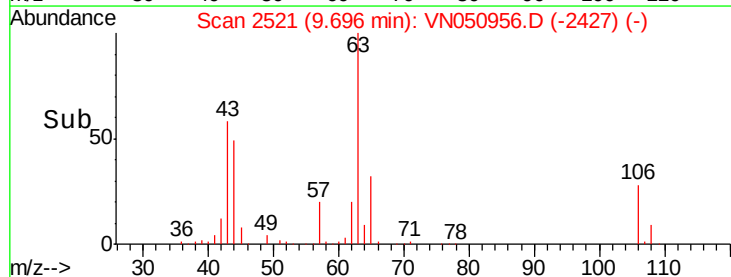
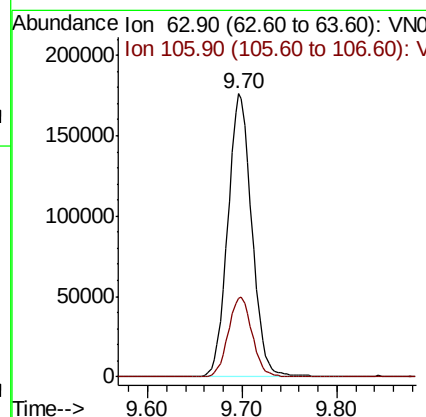
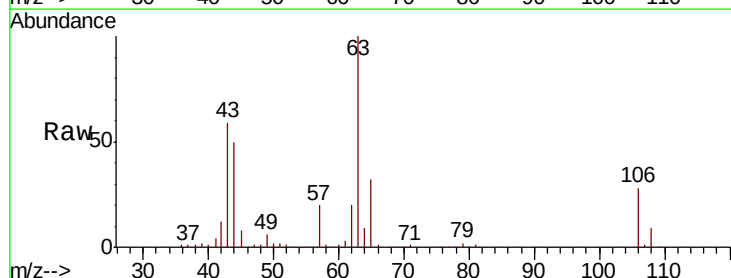
Manual Integrations
 APPROVED

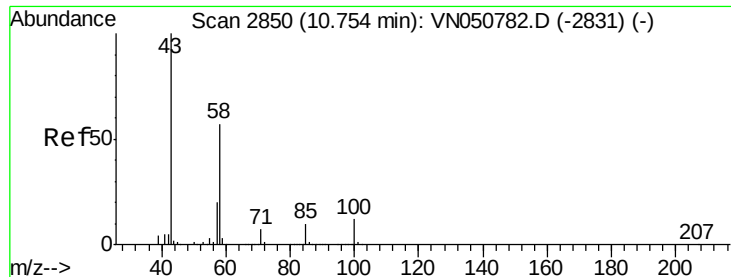
MMDadoda
 8/31/2018 11:32:22 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 92.87 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.0	21.9	32.9





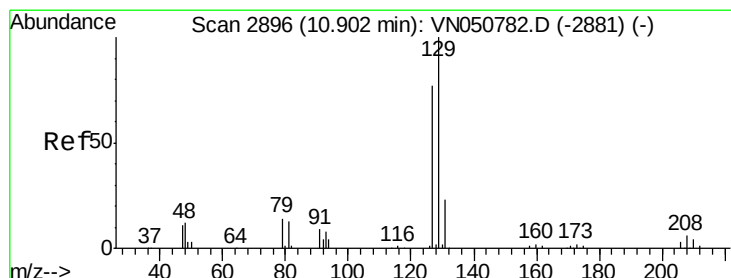
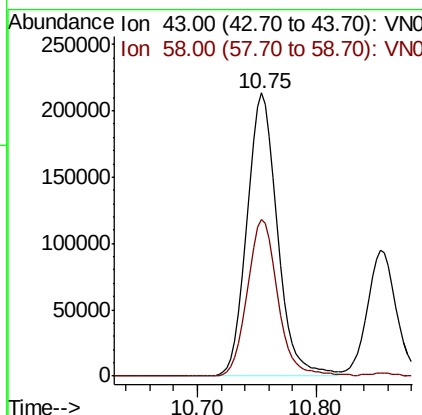
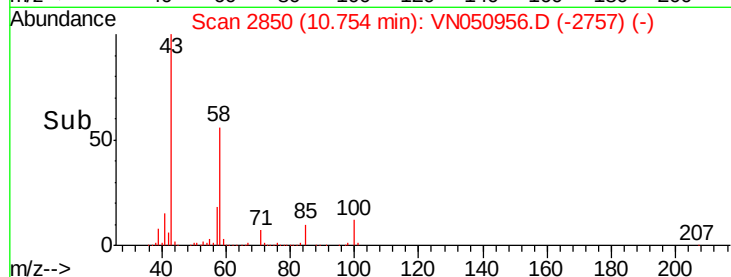
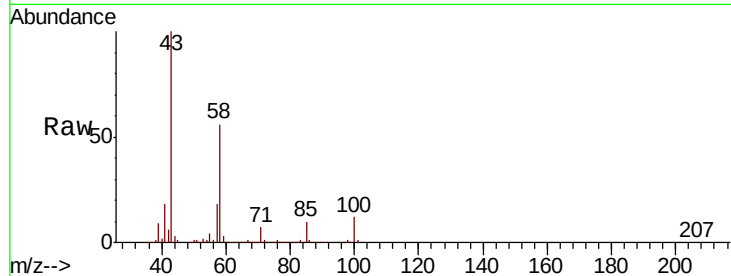
#59
2-Hexanone
Concen: 98.47 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	43	Resp	376754
Ion Ratio	43	100	
Lower	58	55.6	28.3
Upper			85.0

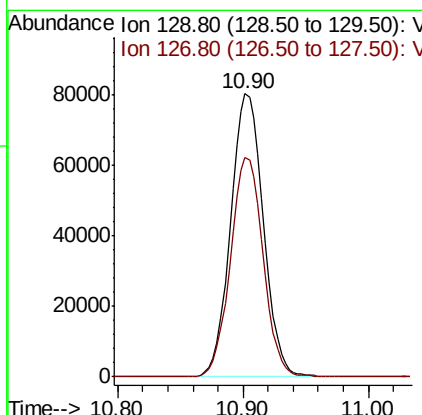
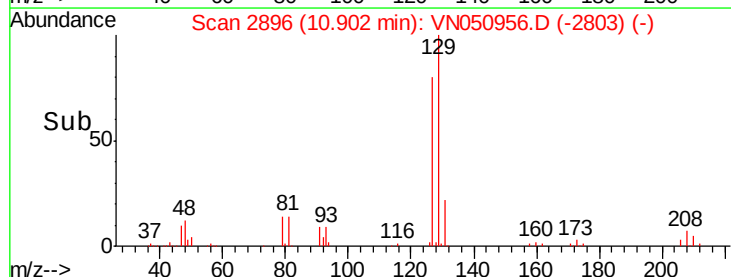
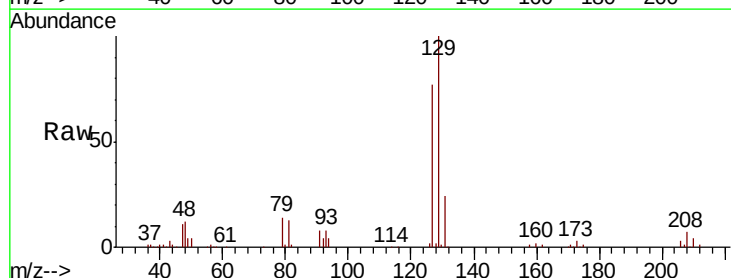
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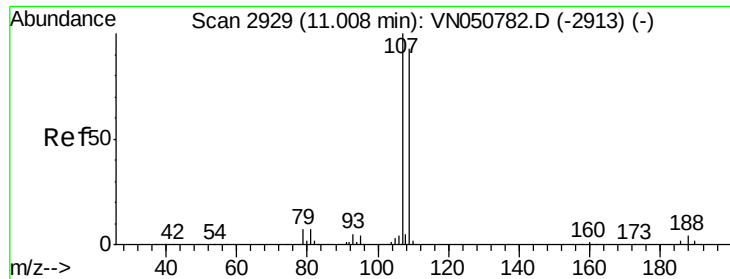
MMDadoda
8/31/2018 11:32:22 AM



#60
Dibromochloromethane
Concen: 20.07 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	129	Resp	145301
Ion Ratio	129	100	
Lower	127	77.2	38.3
Upper			114.9





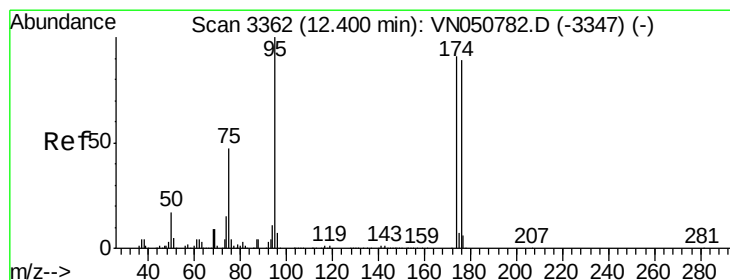
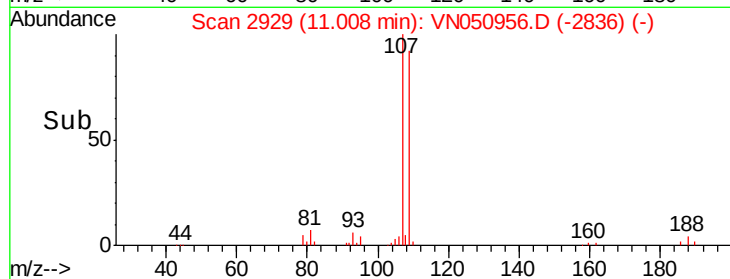
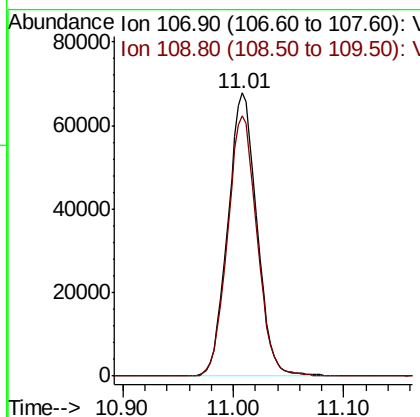
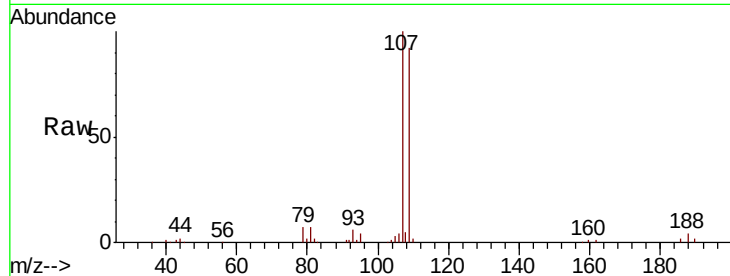
#61
 1,2-Dibromoethane
 Concen: 19.80 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.2	75.4	113.2

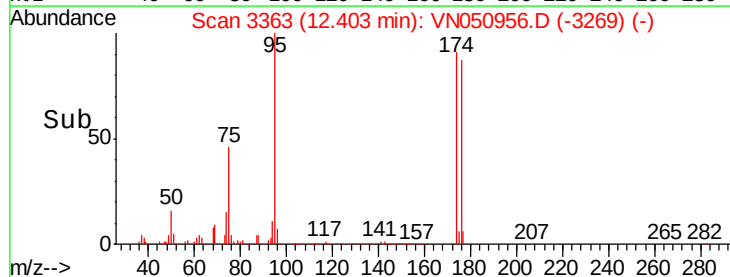
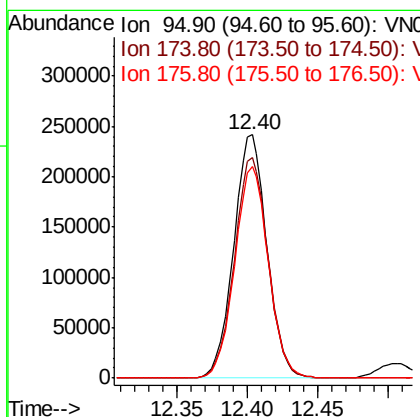
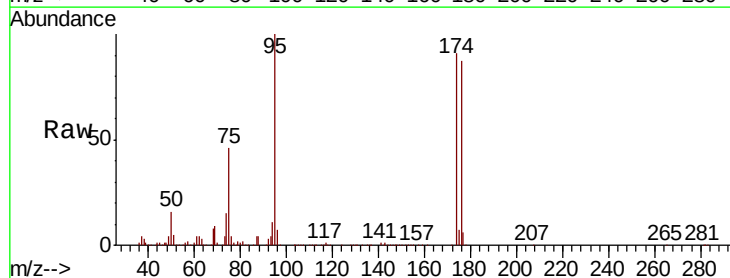
Manual Integrations
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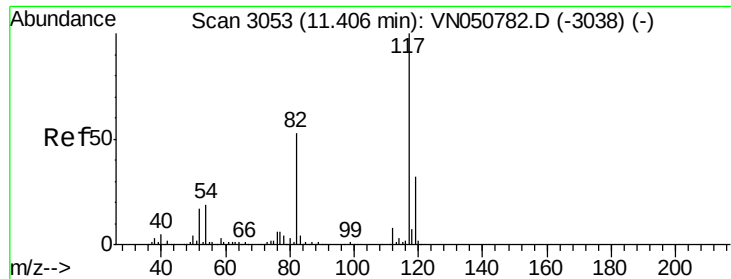
MMDadoda
 8/31/2018 11:32:22 AM



#62
 4-Bromofluorobenzene
 Concen: 48.79 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.7	0.0	183.0
176	88.0	0.0	178.8





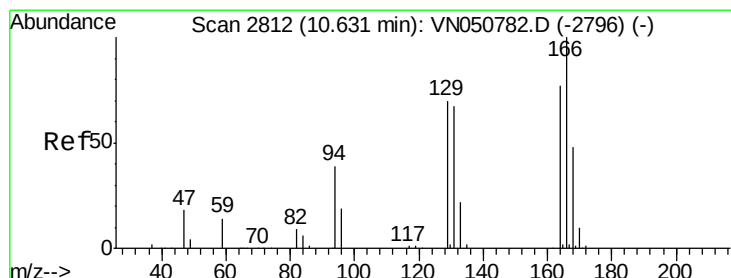
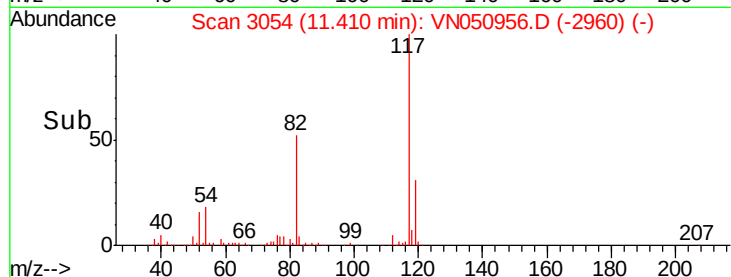
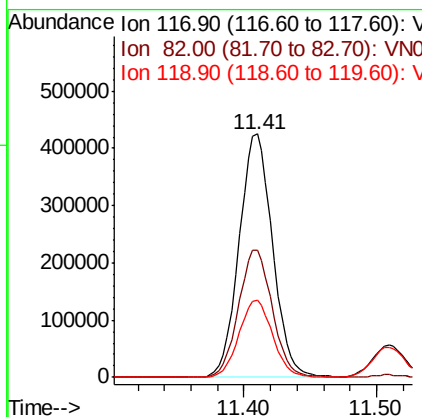
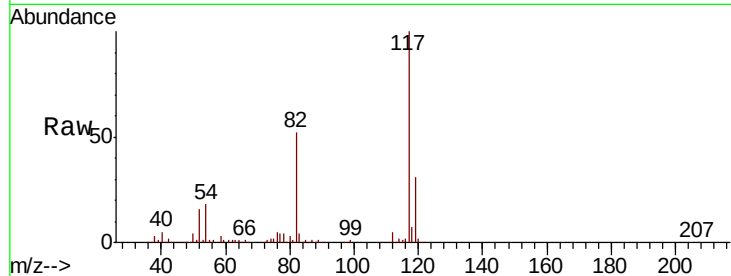
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.6	64.0
119	31.5	25.8	38.6

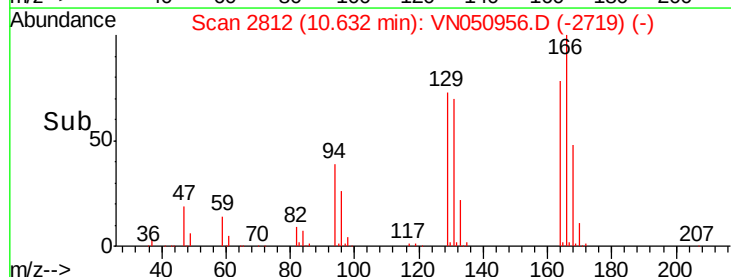
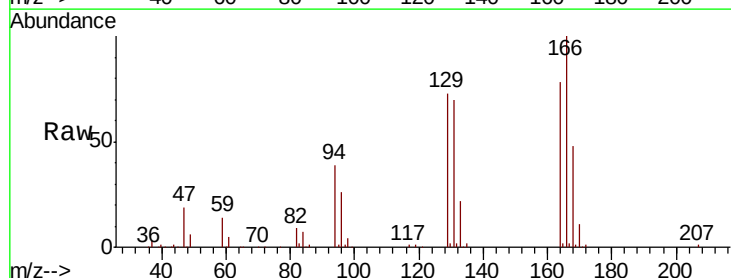
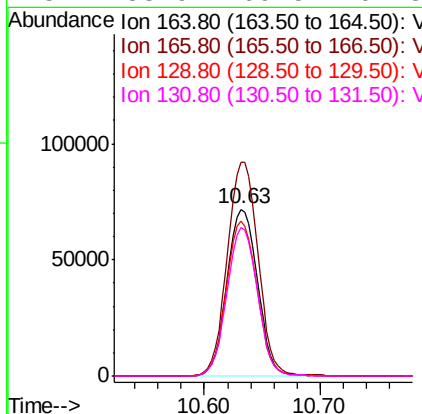
Manual Integrations
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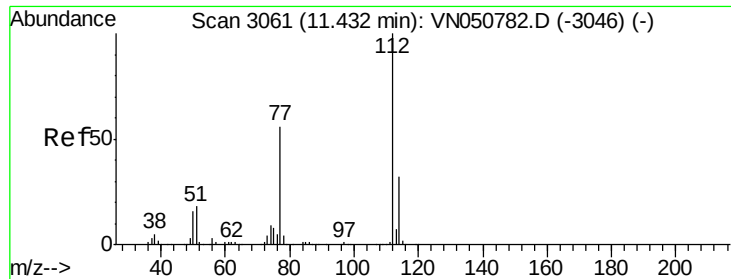
MMDadoda
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#64
Tetrachloroethene
Concen: 18.53 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	103.5	155.3
129	93.0	72.7	109.1
131	88.9	69.5	104.3





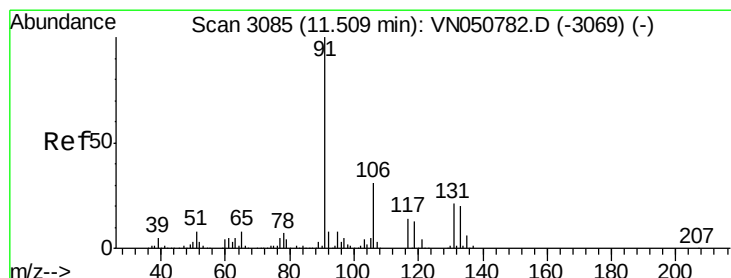
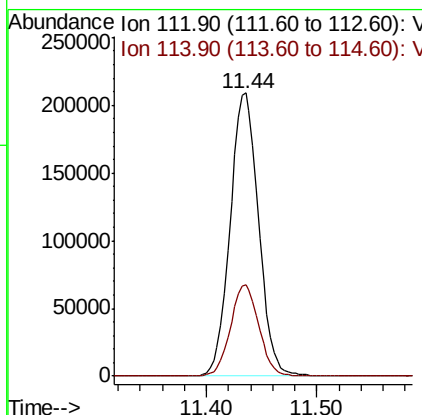
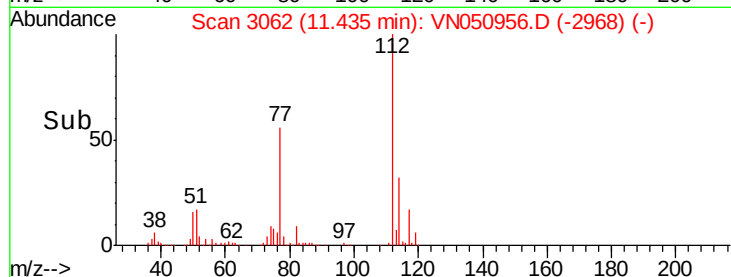
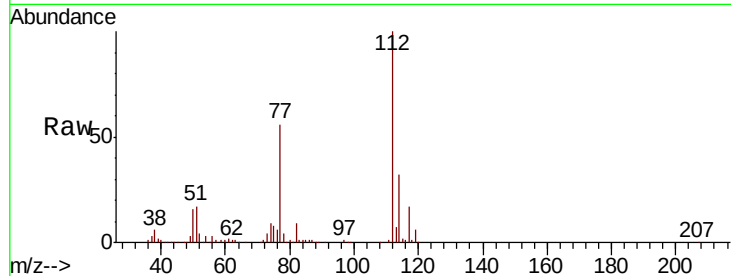
#65
Chlorobenzene
Concen: 19.17 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.6	38.4

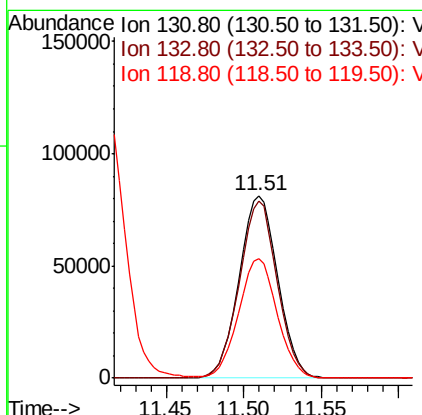
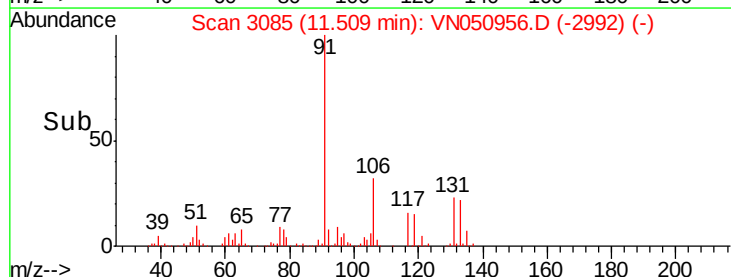
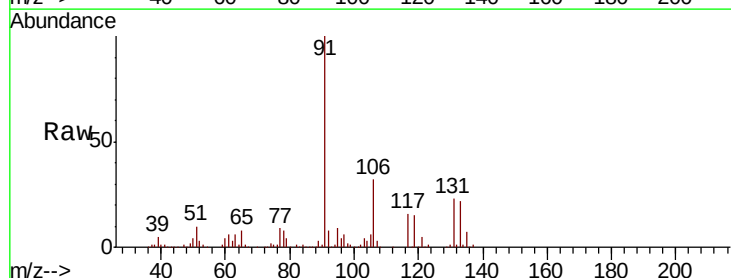
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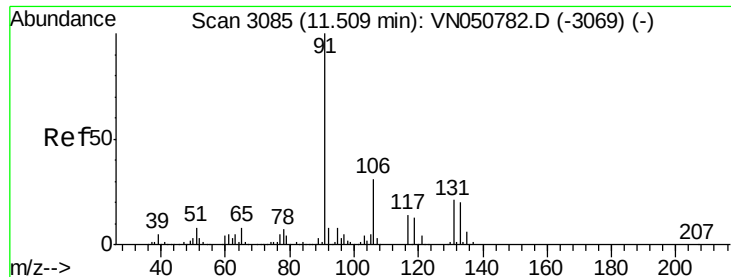
MMDadoda
8/31/2018 11:32:22 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.78 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.4	142.3
119	65.3	32.8	98.4





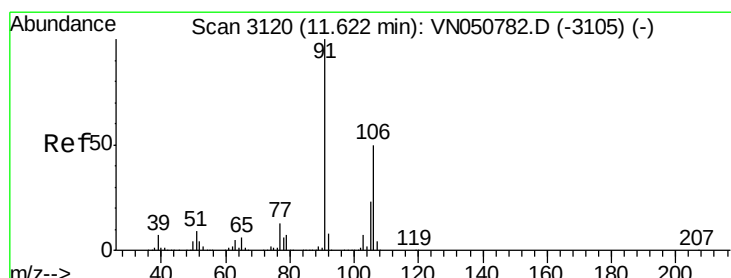
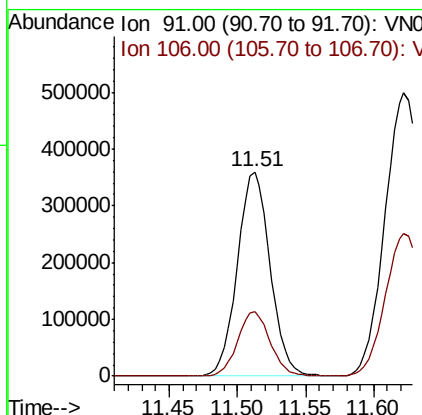
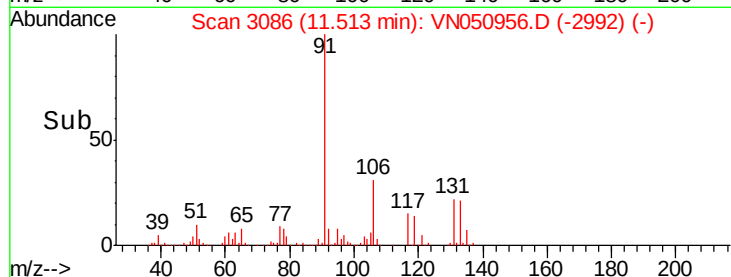
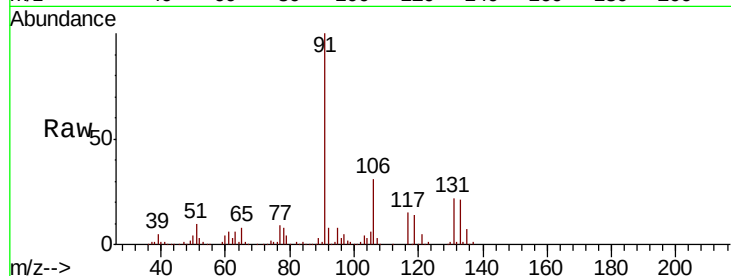
#67
Ethyl Benzene
Concen: 18.95 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampled :
VN0830WBSD01

Tot Ion: 91 Resp: 600618
Ion Ratio Lower Upper
91 100
106 31.5 25.0 37.4

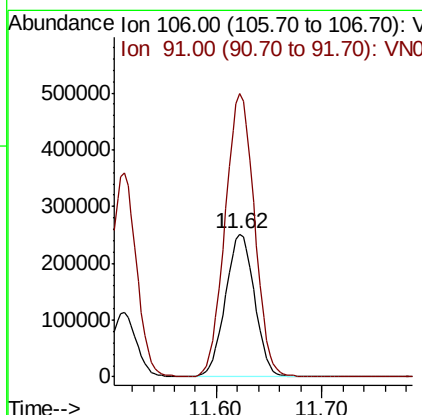
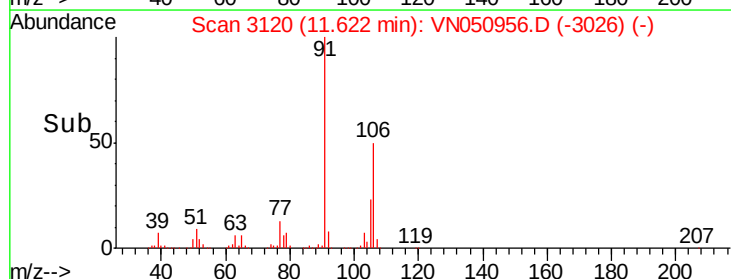
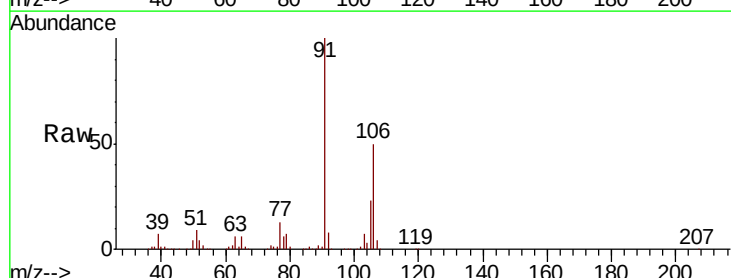
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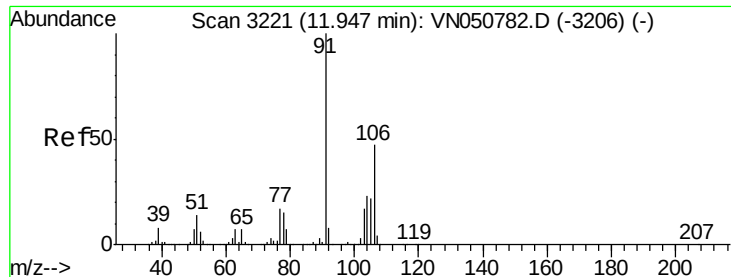
MMDadoda
8/31/2018 11:32:22 AM



#68
m/p-Xylenes
Concen: 39.98 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion: 106 Resp: 480942
Ion Ratio Lower Upper
106 100
91 199.5 161.0 241.6





#69

o-Xylene

Concen: 19.65 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN0830WBSD01

Tot Ion:106 Resp: 227213

Ion Ratio Lower Upper

106 100

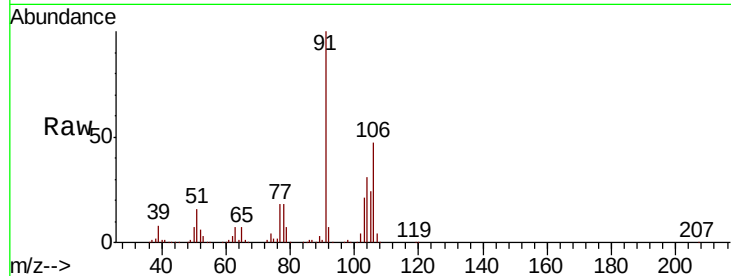
91 212.7 106.5 319.5

Manual Integrations

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

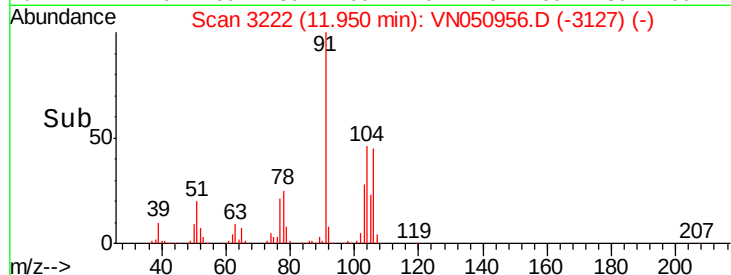
300000

200000

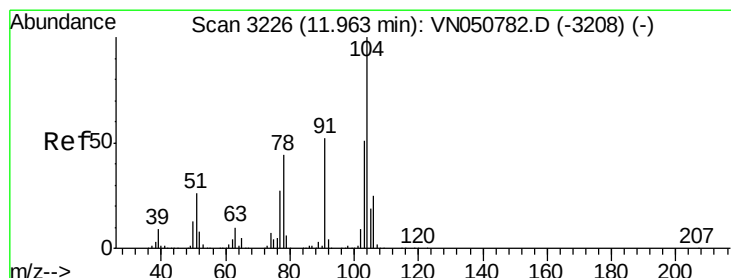
100000

0

11.85 11.90 11.95 12.00



Time-->



#70

Styrene

Concen: 18.60 ug/l

RT: 11.96 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

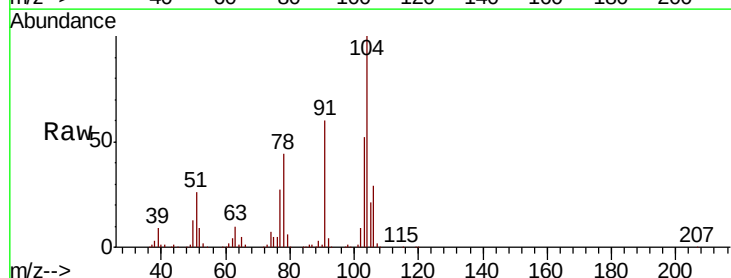
Tgt Ion:104 Resp: 362435

Ion Ratio Lower Upper

104 100

78 47.6 38.2 57.4

103 56.1 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

250000

200000

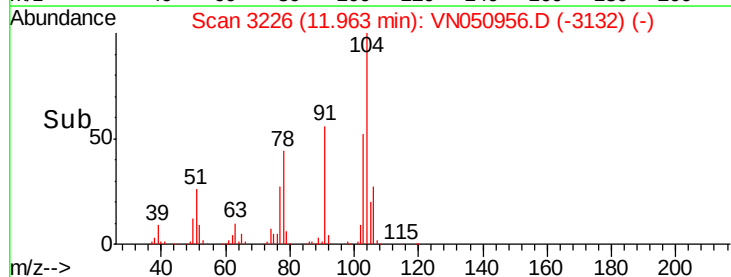
150000

100000

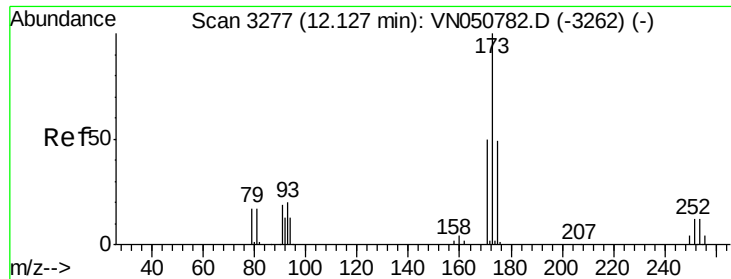
50000

0

11.90 12.00 12.10



Time-->



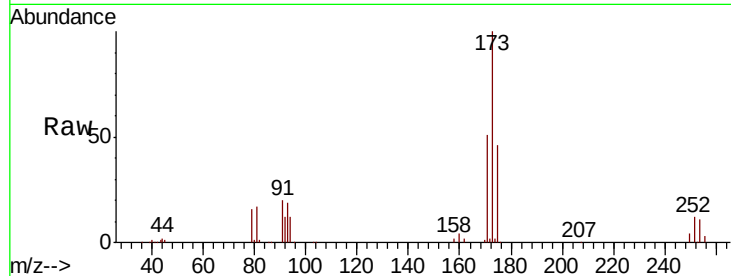
#71
Bromoform
Concen: 20.68 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.4	73.4
254	0.0	0.1	0.1#

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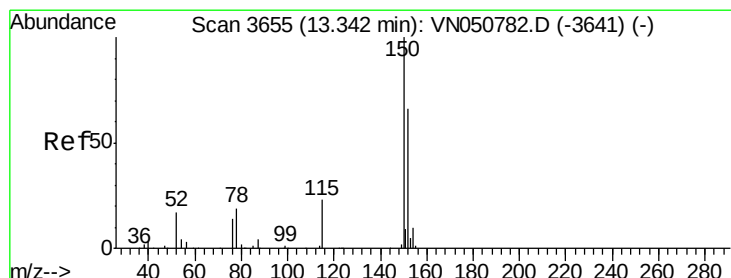
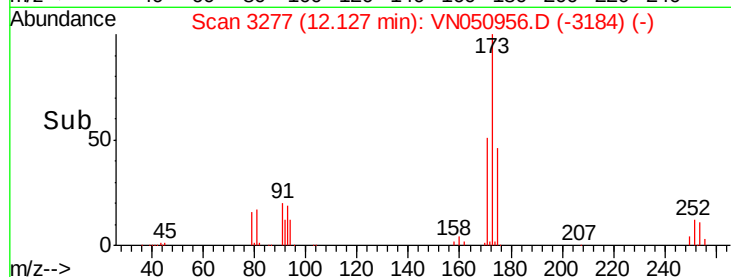
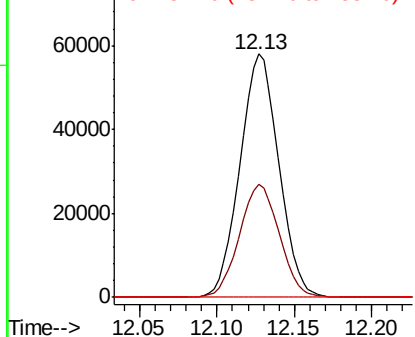


Abundance

Ion 172.70 (172.40 to 173.40): V

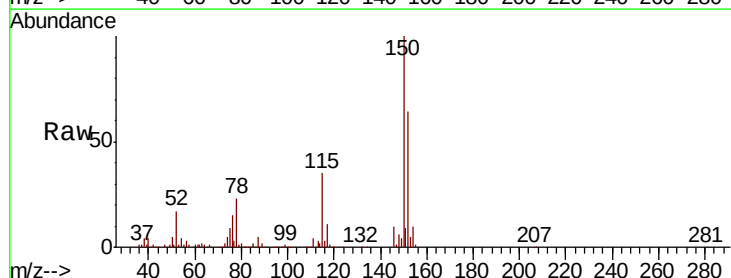
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	27.8	83.4
150	162.9	0.0	351.4

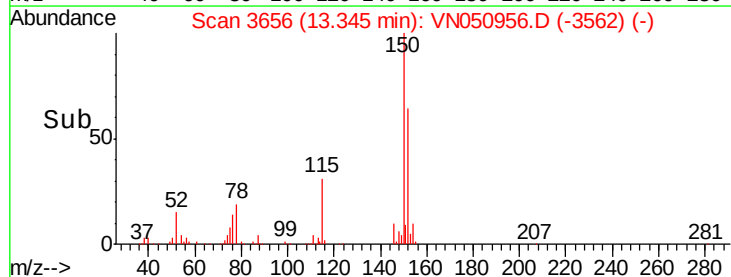
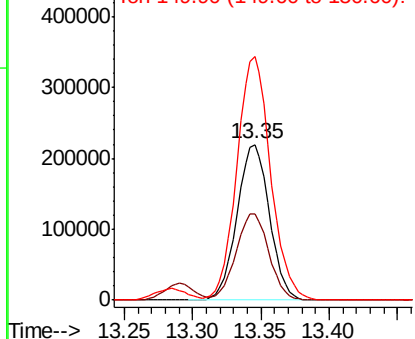


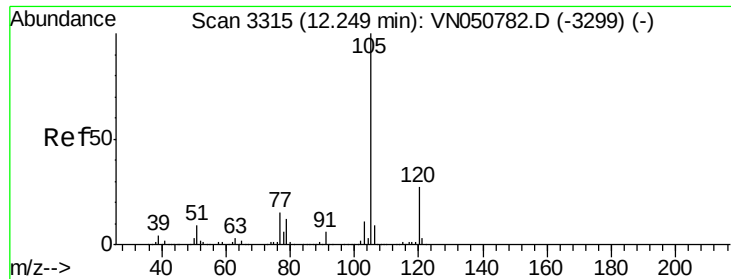
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.13 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN0830WBSD01

Tot Ion:105 Resp: 603907

Ion Ratio Lower Upper

105 100

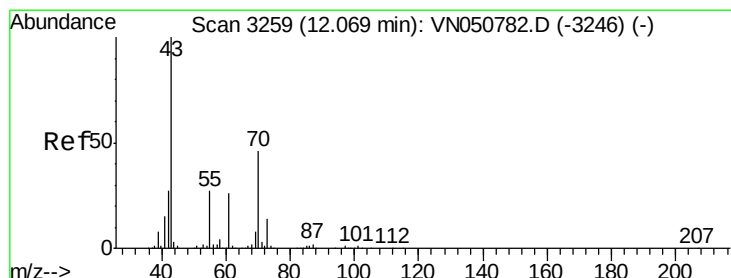
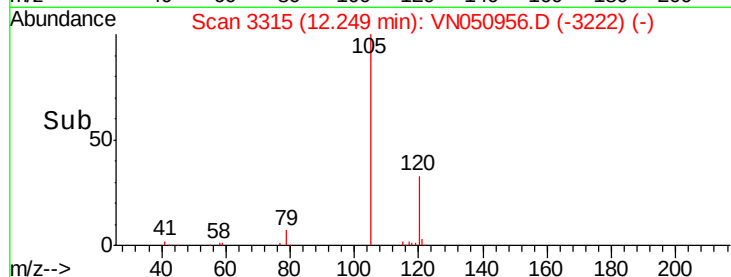
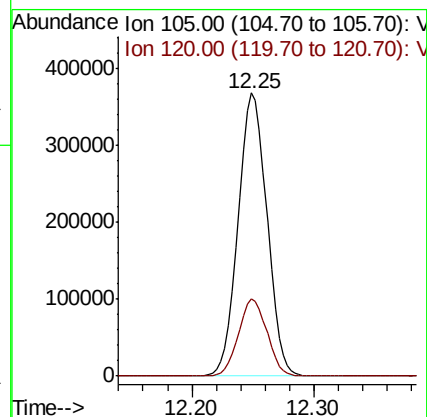
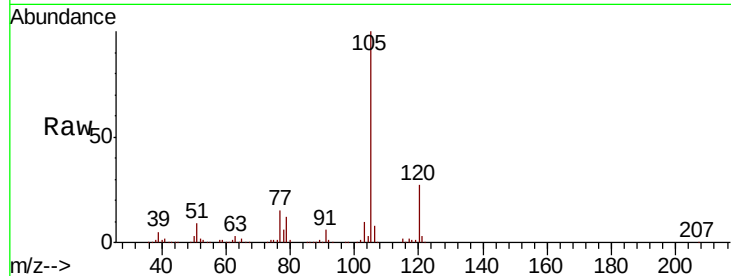
120 26.9 13.5 40.4

Manual Integrations

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#74

N-ethyl acetate

Concen: 19.81 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Tgt Ion: 43 Resp: 149291

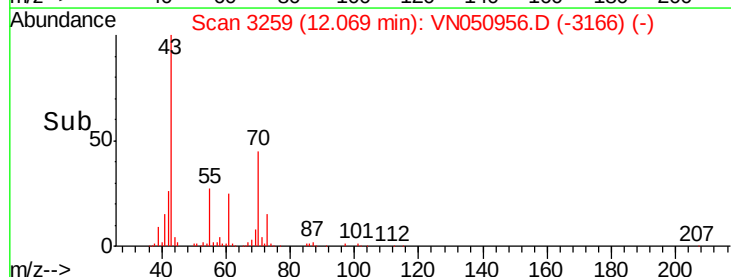
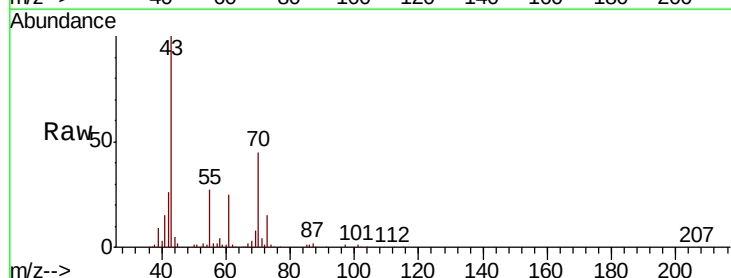
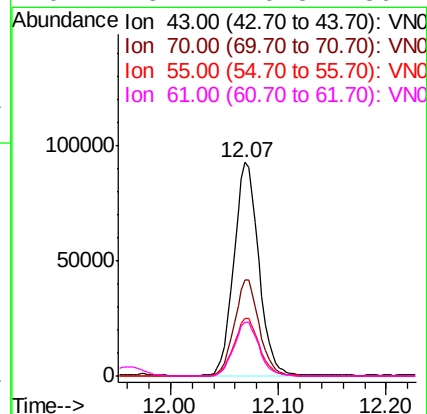
Ion Ratio Lower Upper

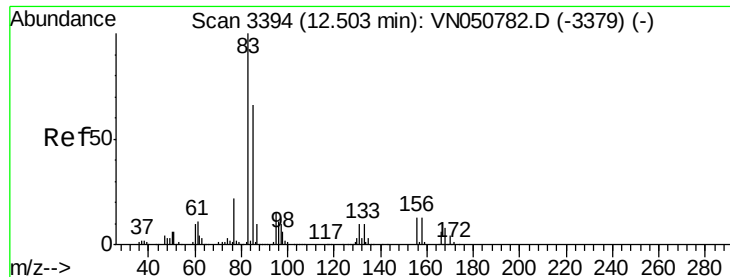
43 100

70 44.8 36.2 54.2

55 27.8 21.8 32.8

61 25.4 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 21.95 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

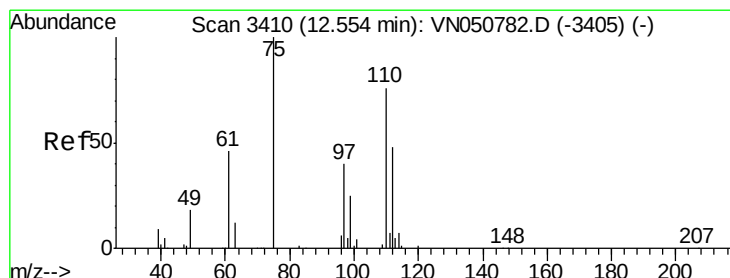
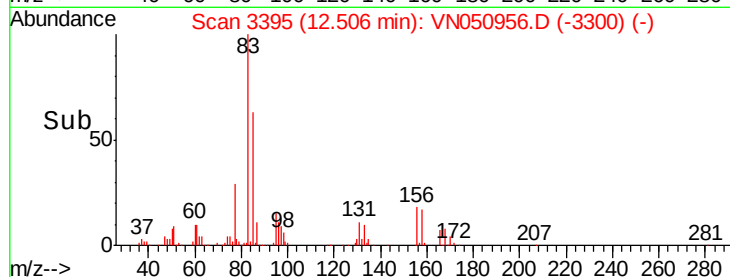
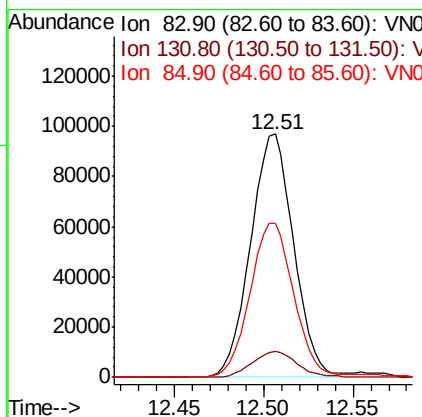
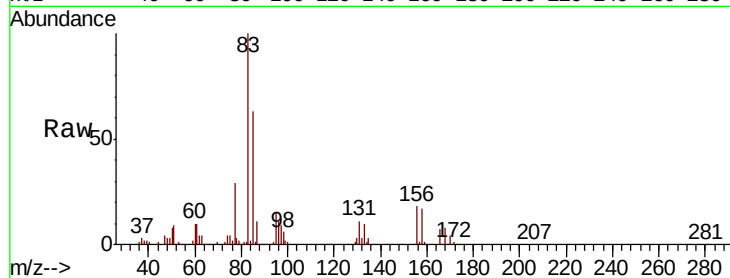
ClientSampleId :

VN0830WBSD01

Tot Ion:	83	Resp:	163534
Ion Ratio	Lower	Upper	
83	100		
131	11.1	5.3	15.9
85	64.3	31.9	95.7

Manual Integrations
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8/31/2018 11:32:22 AM



#76

1,2,3-Trichloropropane

Concen: 20.96 ug/l m

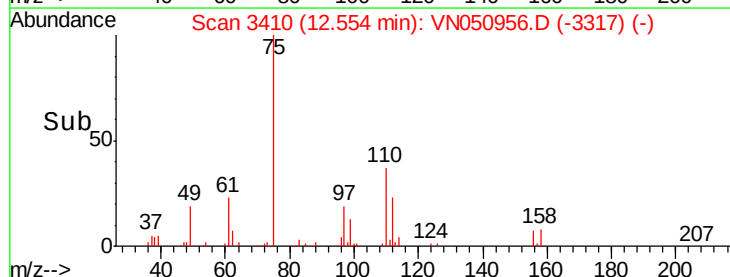
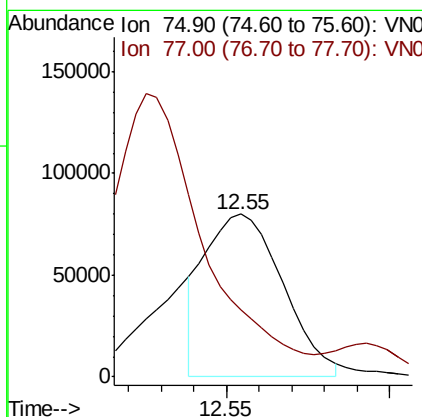
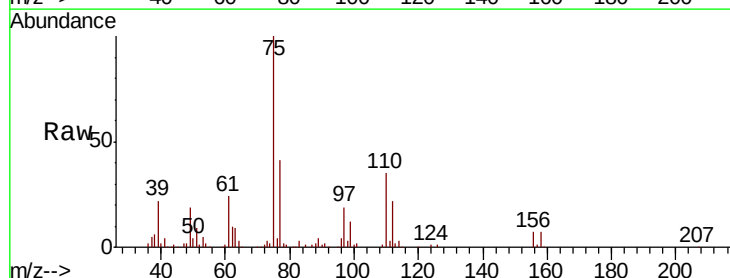
RT: 12.55 min Scan# 3410

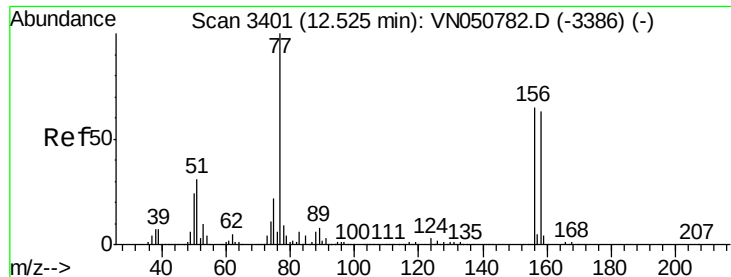
Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Tgt Ion:	75	Resp:	132979
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.23 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

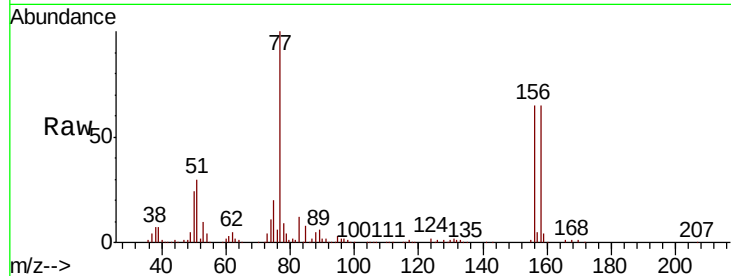
ClientSampled :

VN0830WBSD01

Tot Ion:	156	Resp:	156743
Ion Ratio	Lower	Upper	
156	100		
77	181.1	89.9	269.7
158	99.5	49.3	147.9

Manual Integrations
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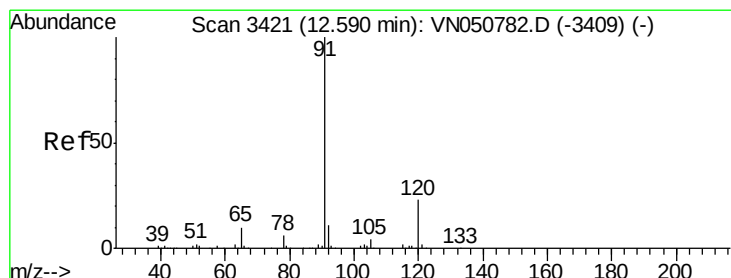
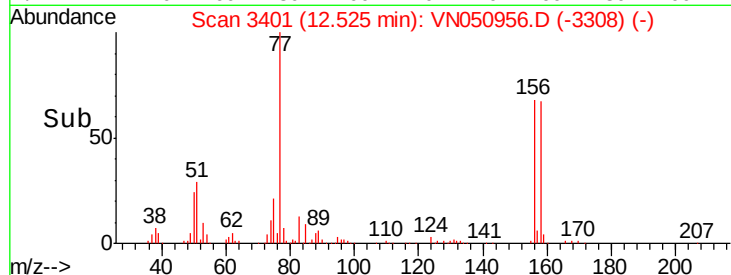
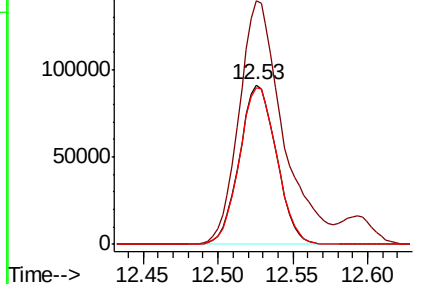
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.91 ug/l

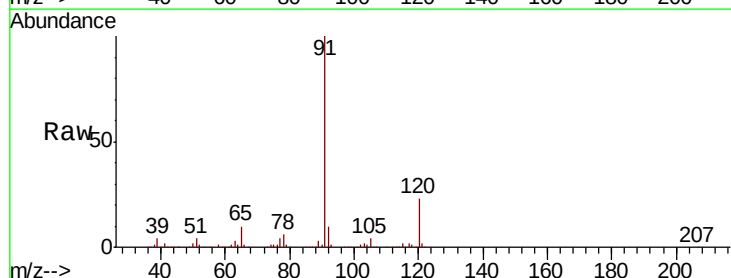
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050956.D

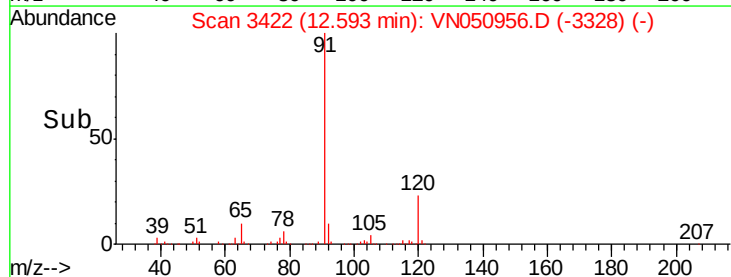
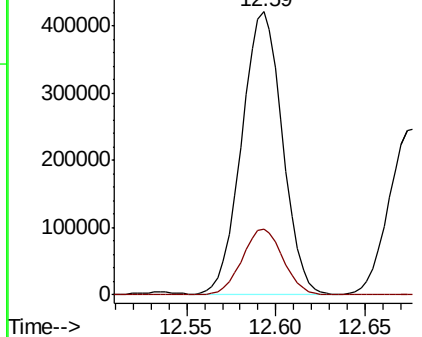
Acq: 30 Aug 2018 12:32

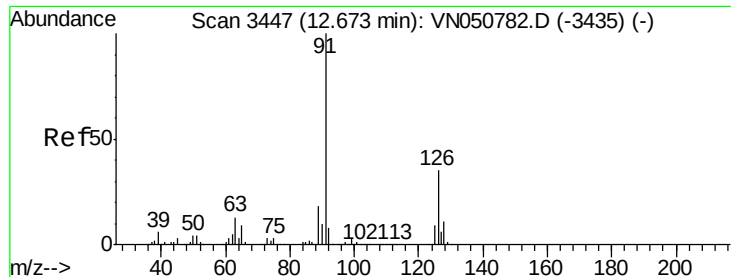
Tgt Ion:	91	Resp:	667085
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.7	35.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.87 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampled :

VN0830WBSD01

Tot Ion: 91 Resp: 414783

Ion Ratio Lower Upper

91 100

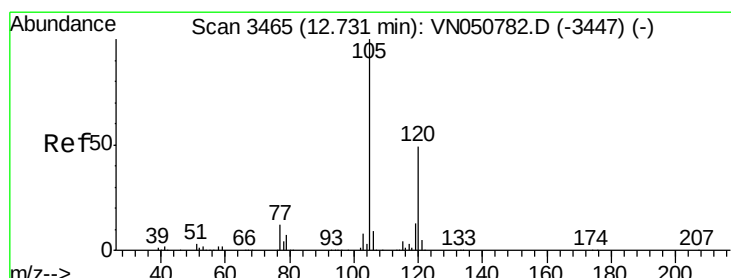
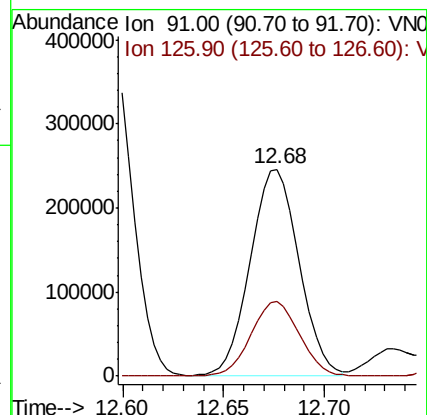
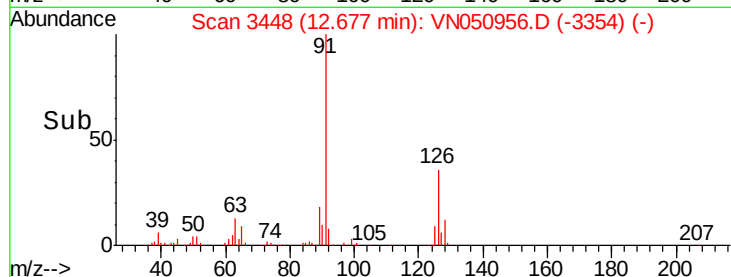
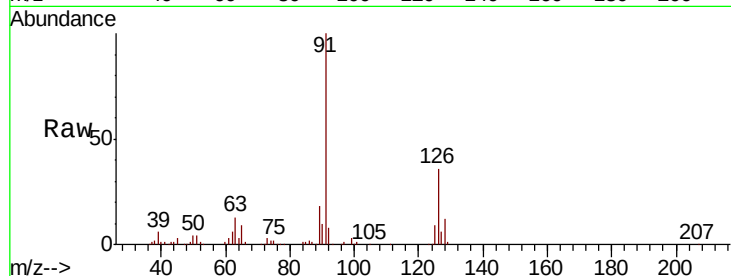
126 35.9 17.8 53.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 20.29 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050956.D

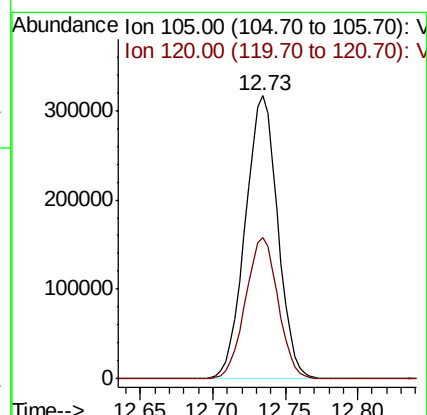
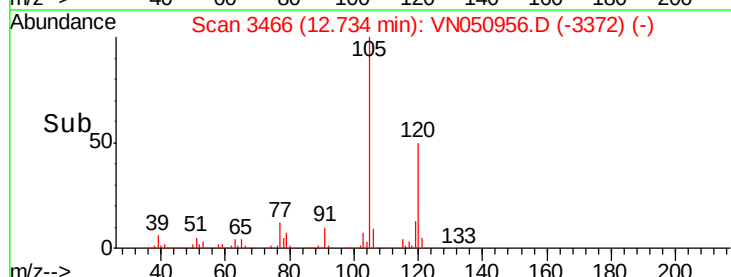
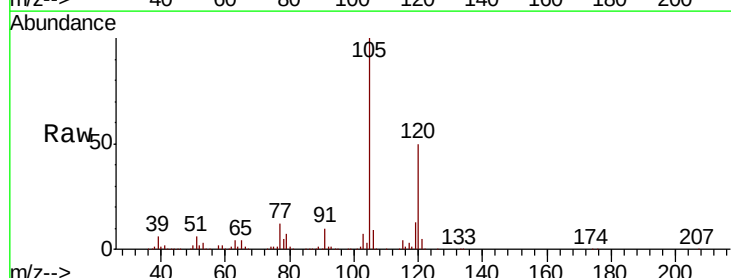
Acq: 30 Aug 2018 12:32

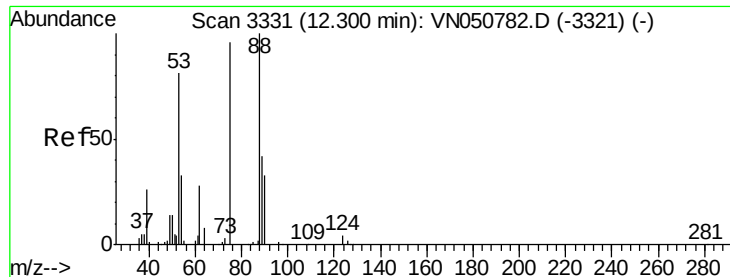
Tgt Ion: 105 Resp: 491096

Ion Ratio Lower Upper

105 100

120 50.4 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 20.30 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

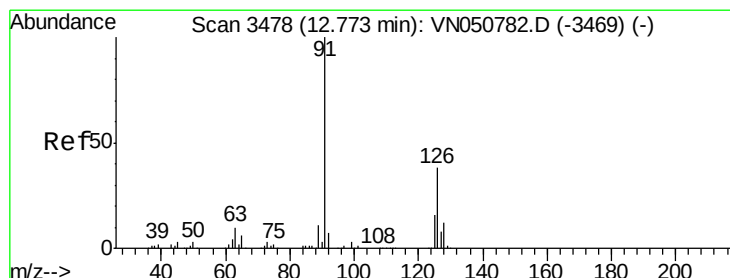
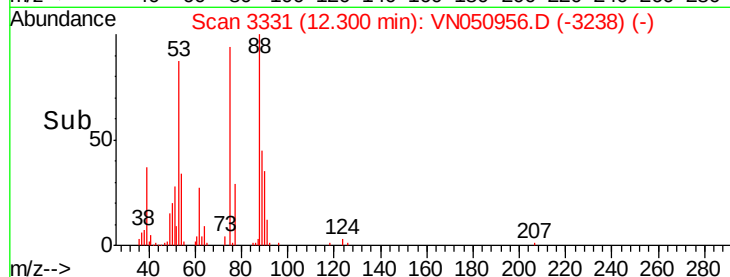
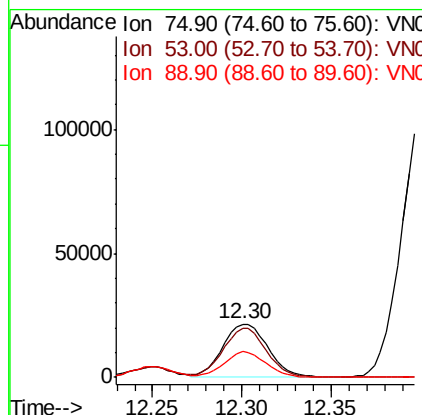
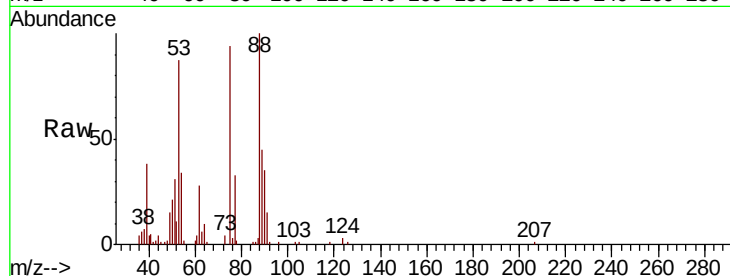
ClientSampled :

VN0830WBSD01

Tot Ion:	75	Resp:	38095
Ion Ratio	Lower	Upper	
75	100		
53	88.5	68.9	103.3
89	44.6	36.1	54.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.80 ug/l

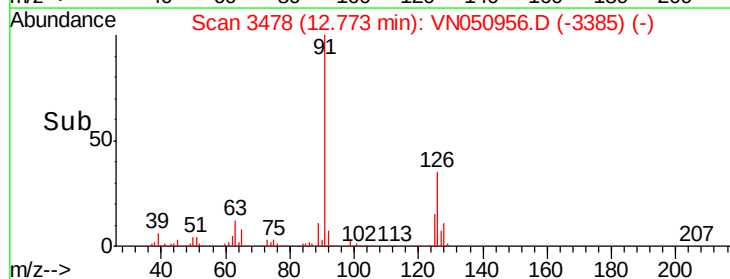
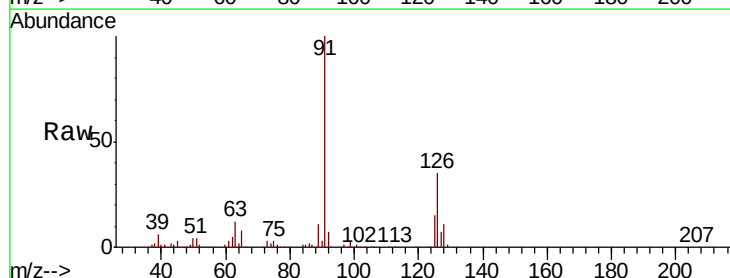
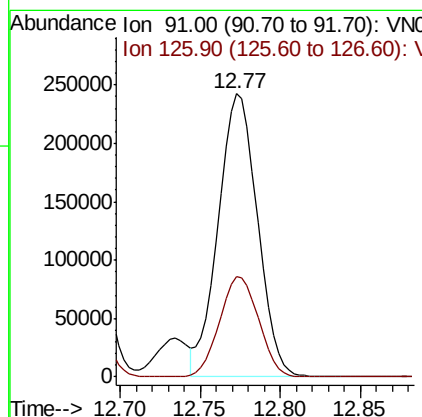
RT: 12.77 min Scan# 3478

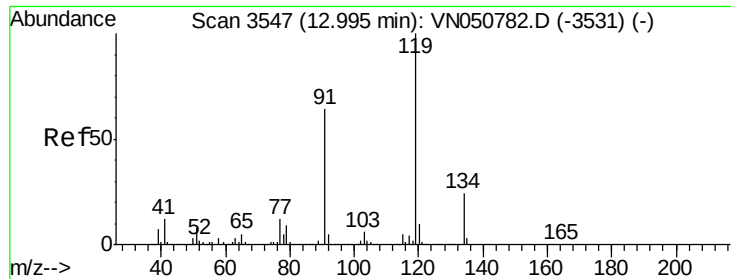
Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Tgt Ion:	91	Resp:	407996
Ion Ratio	Lower	Upper	
91	100		
126	35.4	17.5	52.5





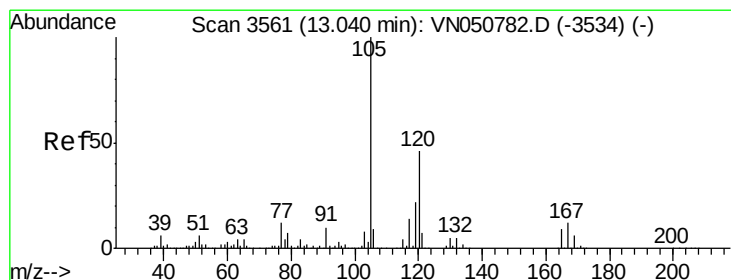
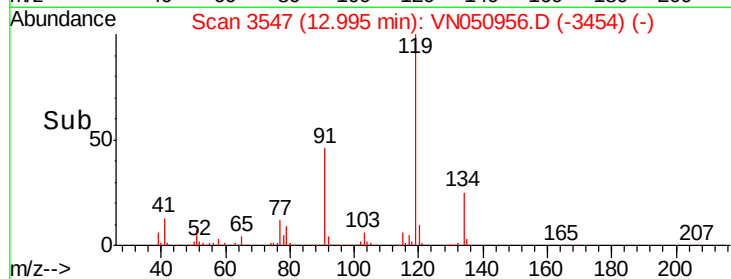
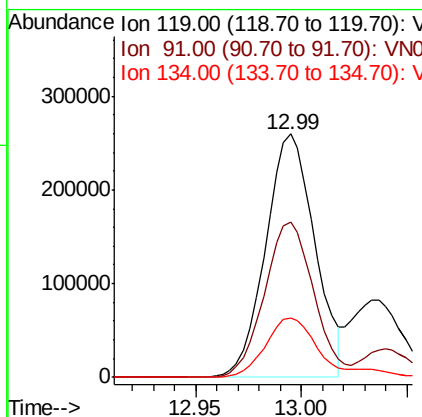
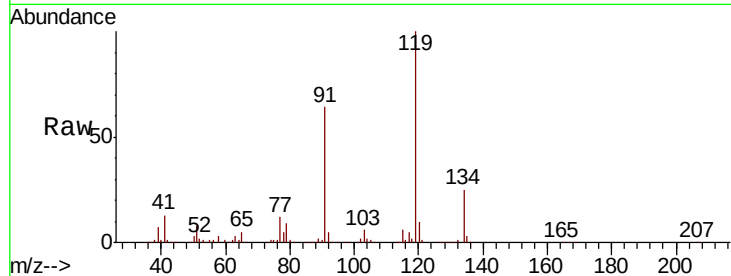
#83
 tert-Butylbenzene
 Concen: 20.06 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampled :
 VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.2	31.6	94.7
134	25.1	13.4	40.1

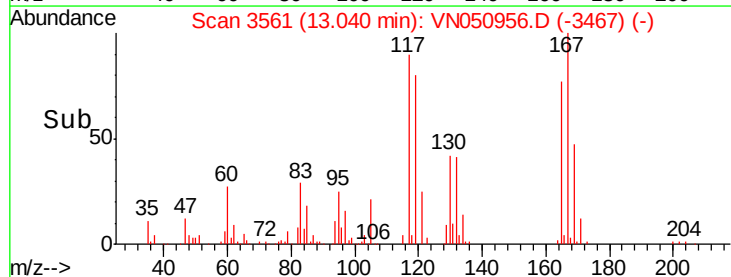
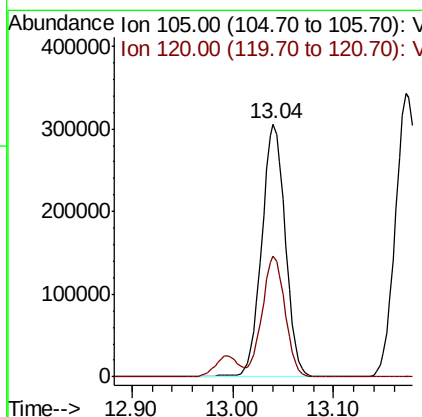
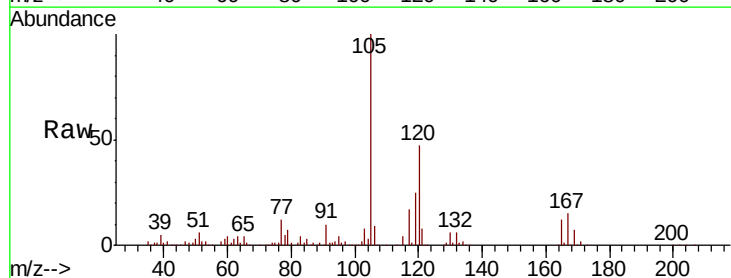
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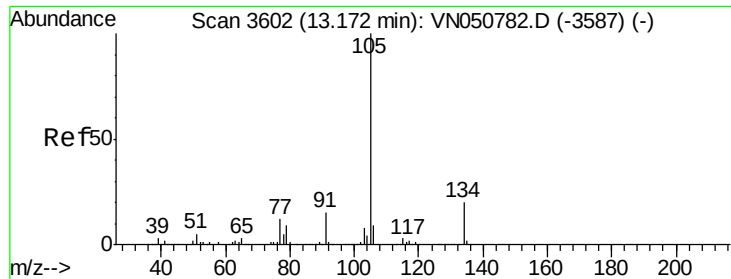
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.43 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	22.9	68.8





#85

sec-Butylbenzene

Concen: 20.09 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

ClientSampled :

VN0830WBSD01

Tot Ion:105 Resp: 551687

Ion Ratio Lower Upper

105 100

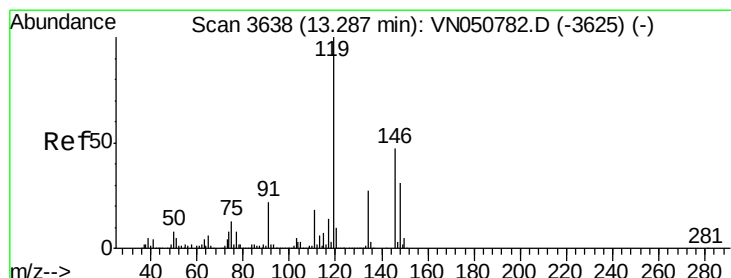
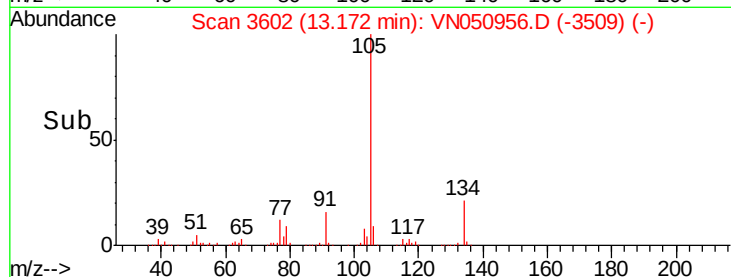
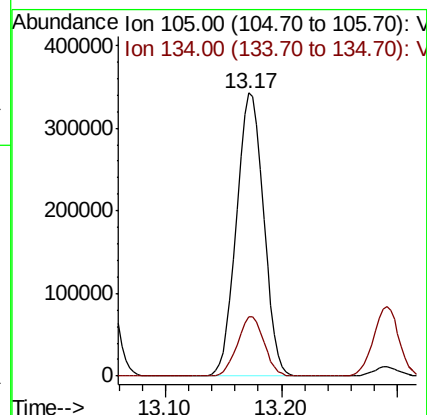
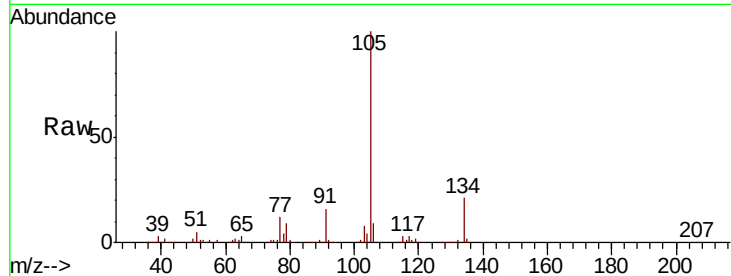
134 20.7 10.3 30.8

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#86

p-Isopropyltoluene

Concen: 20.27 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

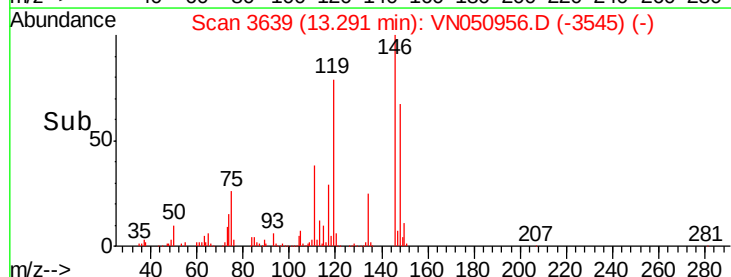
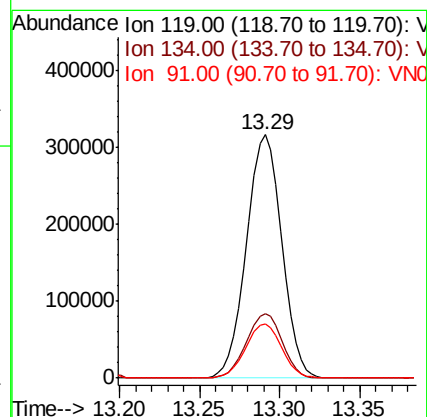
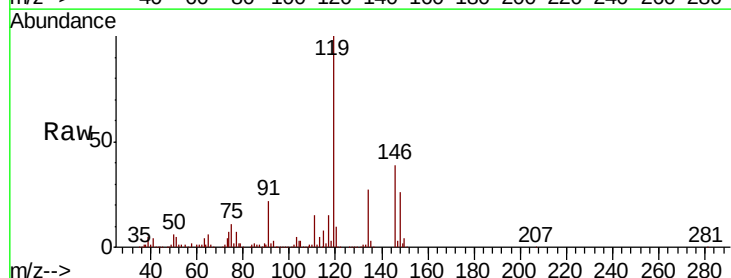
Tgt Ion:119 Resp: 474333

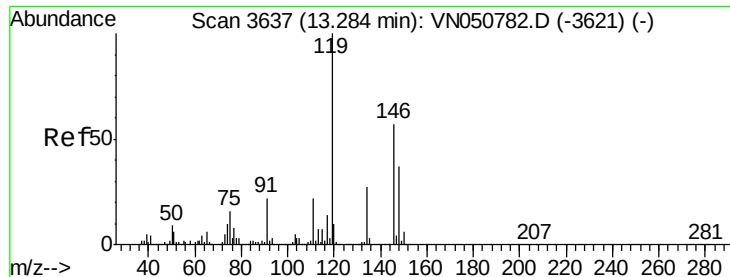
Ion Ratio Lower Upper

119 100

134 27.0 13.7 41.0

91 22.6 11.2 33.5





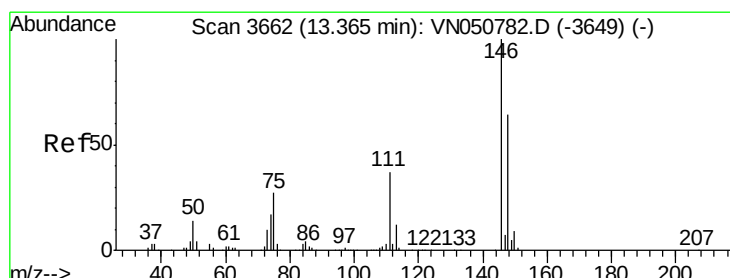
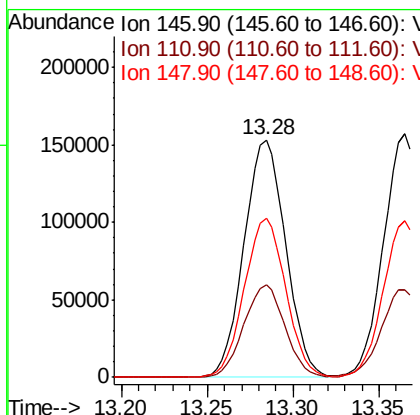
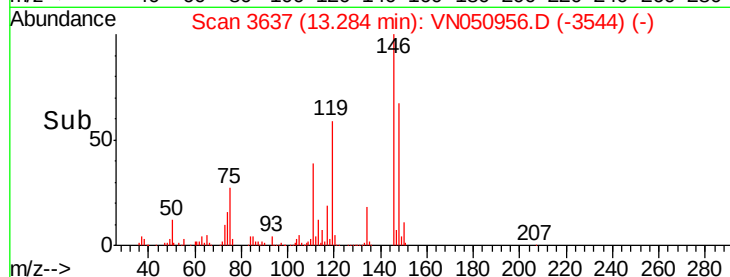
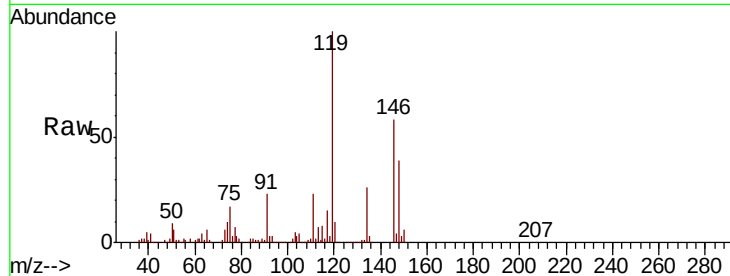
#87
 1,3-Dichlorobenzene
 Concen: 18.60 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	257285		
111	38.2	19.1	57.3	
148	66.6	32.2	96.6	

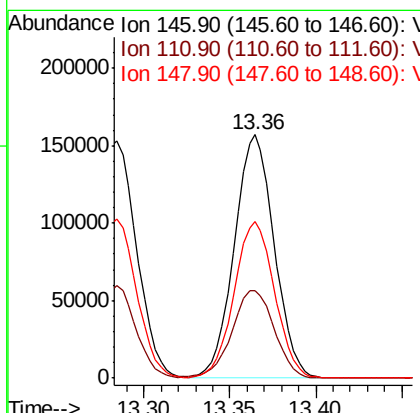
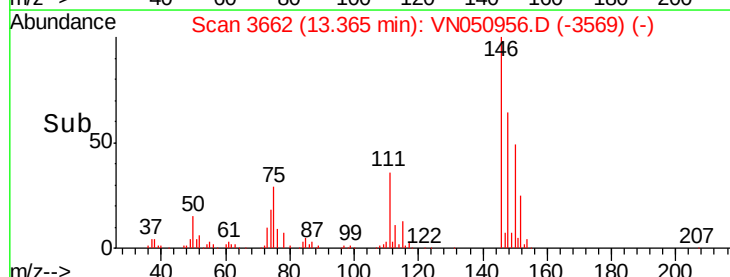
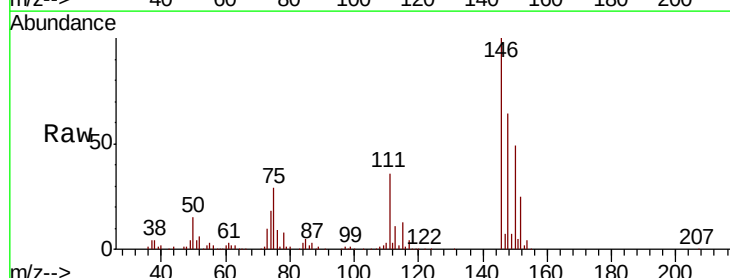
Manual Integrations
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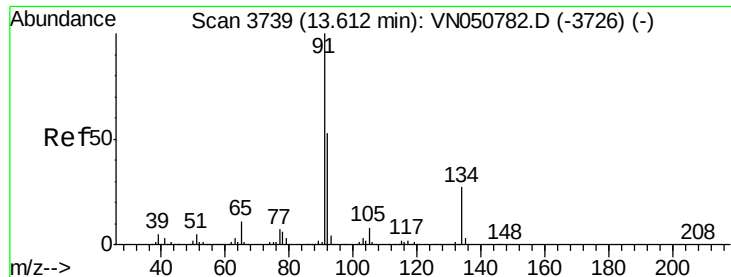
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#88
 1,4-Dichlorobenzene
 Concen: 18.64 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	253747		
111	38.4	18.8	56.3	
148	65.2	32.2	96.6	





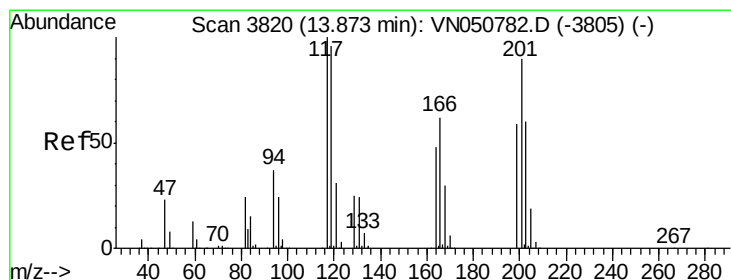
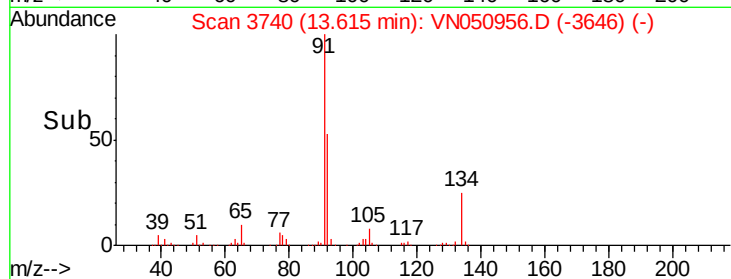
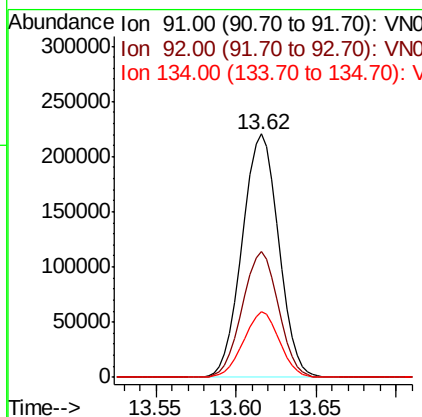
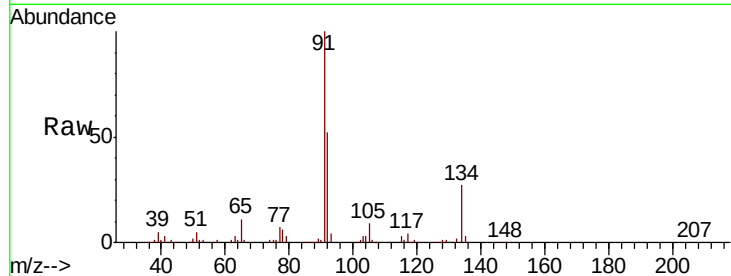
#89
n-Butylbenzene
Concen: 18.28 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.3	26.1	78.2
134	26.5	13.2	39.6

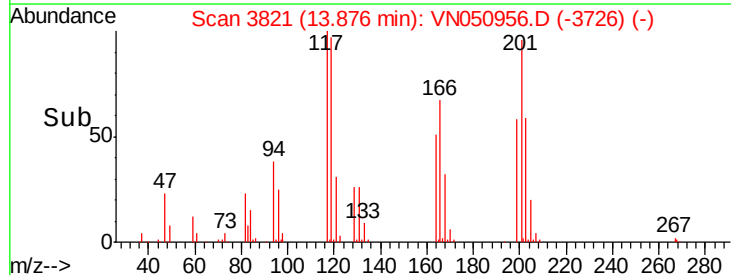
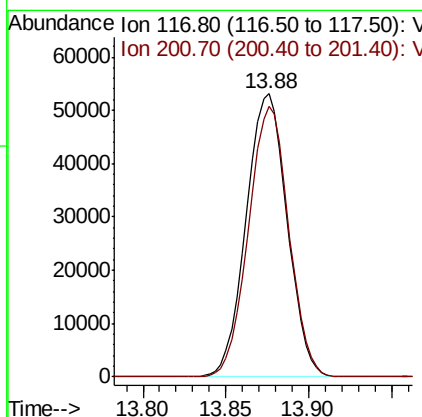
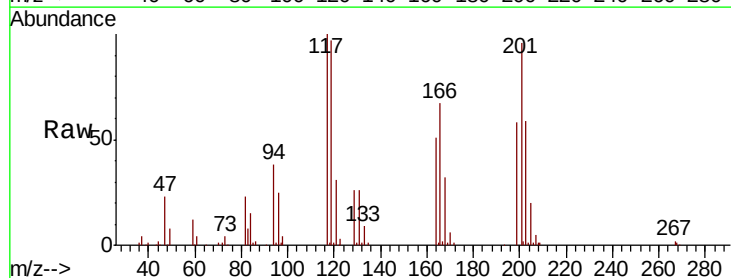
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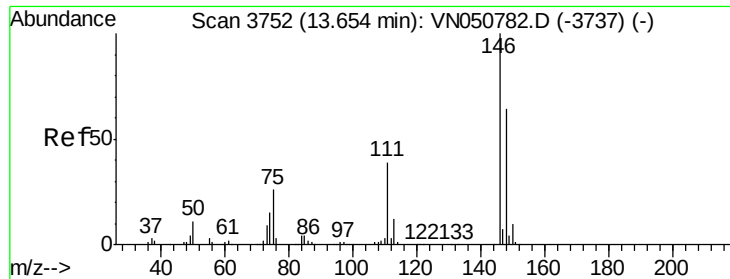
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#90
Hexachloroethane
Concen: 20.56 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.8	46.0	137.8





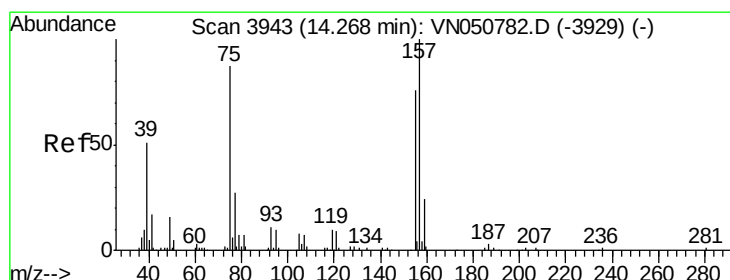
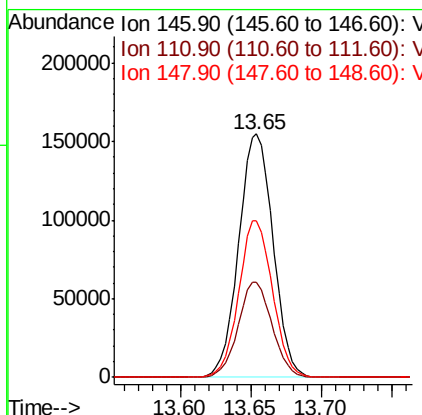
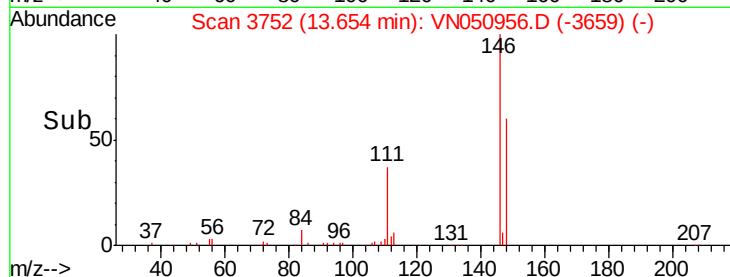
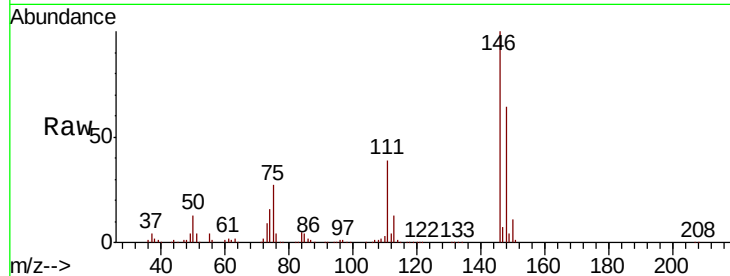
#91
 1,2-Dichlorobenzene
 Concen: 19.80 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.8	59.3
148	63.2	32.3	96.8

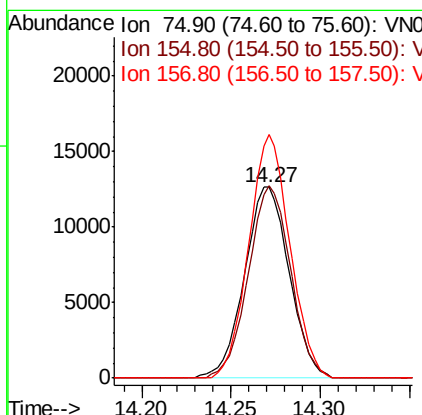
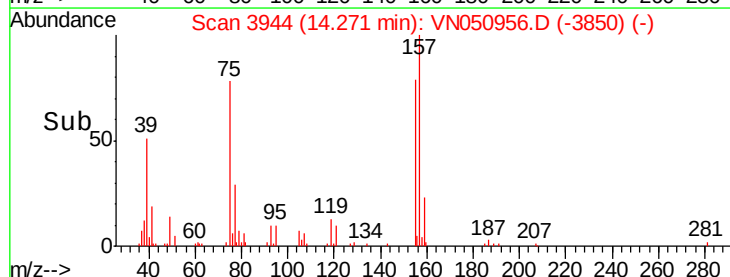
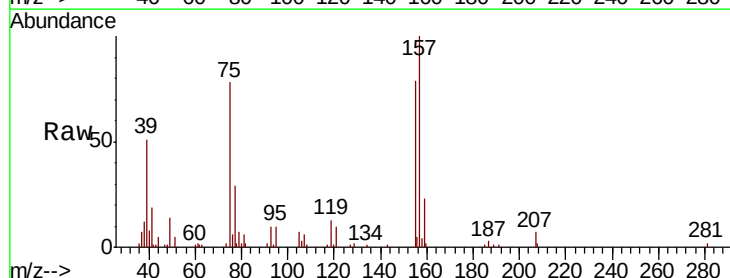
Manual Integrations
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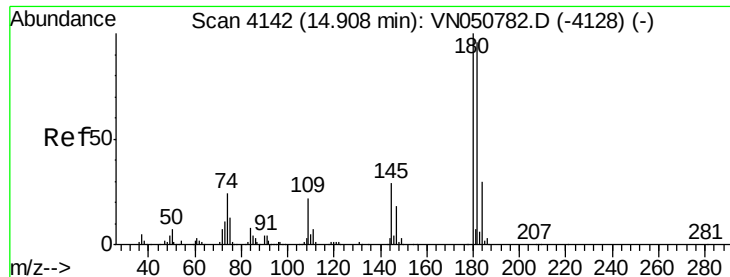
MMDadoda
 8/31/2018 11:32:22 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.59 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050956.D
 Acq: 30 Aug 2018 12:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.2	46.4	139.1
157	117.0	60.7	182.0





#93

1,2,4-Trichlorobenzene

Concen: 17.02 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Instrument :

MSVOA_N

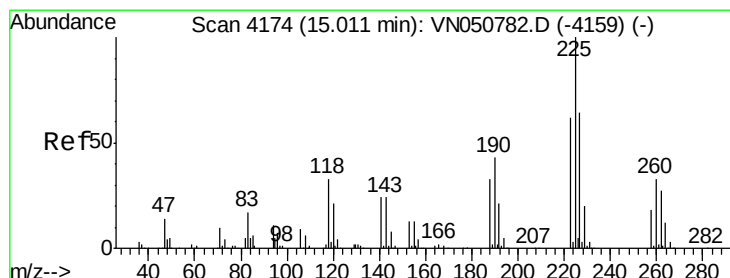
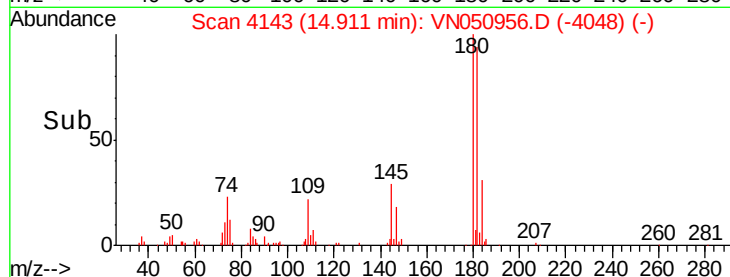
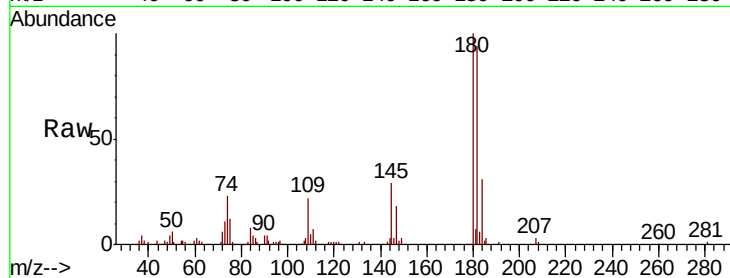
ClientSampled :

VN0830WBSD01

Tot Ion:	180	Resp:	97781
Ion Ratio	Lower	Upper	
180	100		
182	94.9	48.2	144.6
145	28.2	14.1	42.2

Manual Integrations
APPROVED

MMDadoda
8/31/2018 11:32:22 AM



#94

Hexachlorobutadiene

Concen: 19.74 ug/l

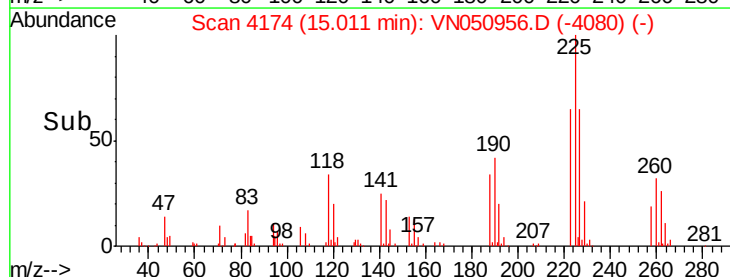
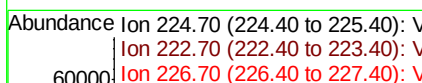
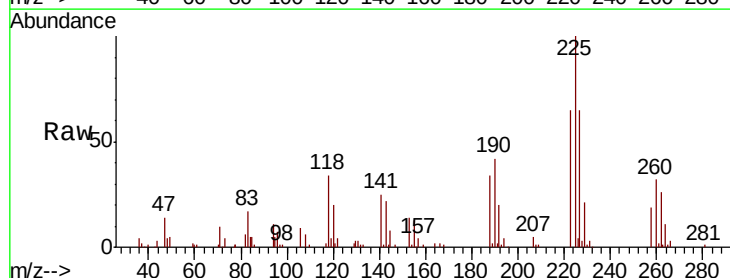
RT: 15.01 min Scan# 4174

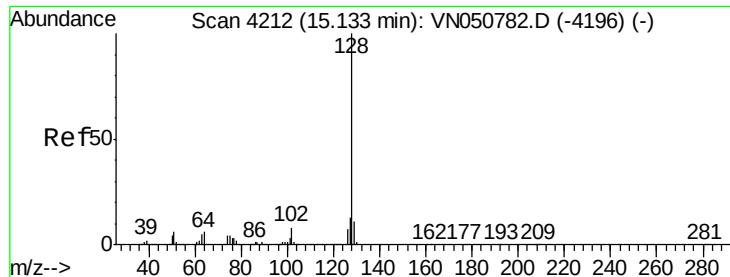
Delta R.T. 0.00 min

Lab File: VN050956.D

Acq: 30 Aug 2018 12:32

Tgt Ion:	225	Resp:	80762
Ion Ratio	Lower	Upper	
225	100		
223	63.7	31.3	93.8
227	64.7	32.0	96.2





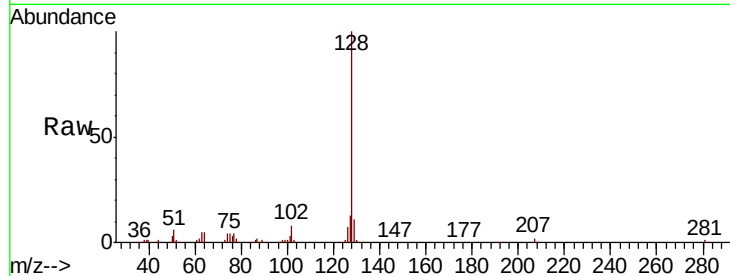
#95
Naphthalene
Concen: 17.08 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		189457		
127	12.9		10.5	15.7	
129	10.6		8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
8/31/2018 11:32:22 AM

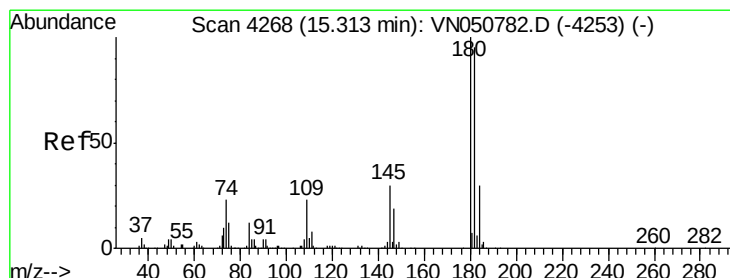
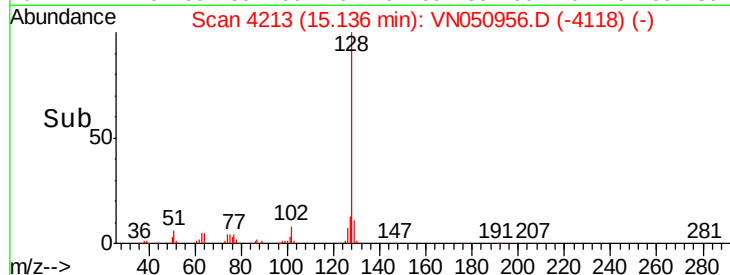
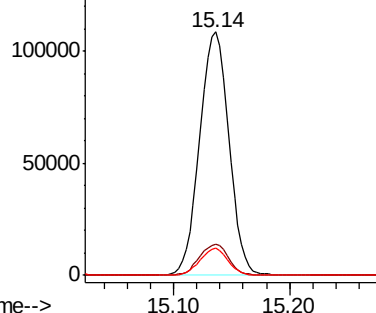


Abundance

Ion 128.00 (127.70 to 128.70): V

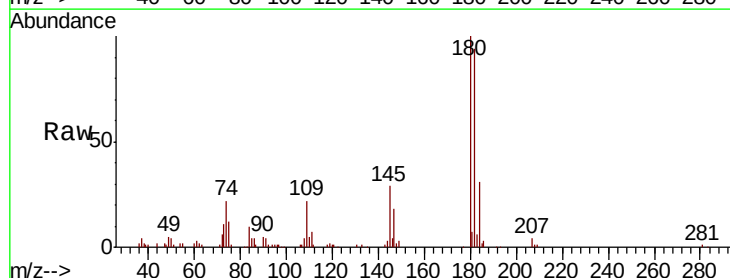
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 17.99 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050956.D
Acq: 30 Aug 2018 12:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		102380		
182	97.1		48.0	144.2	
145	29.3		15.2	45.6	



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

