

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091018\
 Data File : VN051082.D
 Acq On : 10 Sep 2018 16:59
 Operator : MD\SY
 Sample : VN0910MBSD01
 Misc : 5.00µl/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0910MBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/11/2018 9:40:59 AM

Quant Time: Sep 11 04:08:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	683589	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	979890	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	878829	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	406195	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	392657	51.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.24%	
35) Dibromofluoromethane	7.59	113	380532	51.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.36%	
50) Toluene-d8	10.09	98	1437960	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.40	95	450850	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	123532	18.74	ug/l	98
3) Chloromethane	2.06	50	169561	19.59	ug/l	98
4) Vinyl Chloride	2.18	62	171985	19.01	ug/l	99
5) Bromomethane	2.57	94	102338	19.44	ug/l	97
6) Chloroethane	2.70	64	103956	18.61	ug/l	98
7) Trichlorofluoromethane	3.01	101	230024	19.18	ug/l	100
8) Diethyl Ether	3.41	74	85693	19.43	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	144919	18.75	ug/l	99
10) Methyl Iodide	3.95	142	119497	20.30	ug/l	99
11) Tert butyl alcohol	4.80	59	54430	93.67	ug/l	99
12) 1,1-Dichloroethene	3.74	96	135230	18.55	ug/l	100
13) Acrolein	3.61	56	72828	116.99	ug/l	98
14) Allyl chloride	4.33	41	205596	18.51	ug/l	98
15) Acrylonitrile	4.99	53	253609	98.50	ug/l	99
16) Acetone	3.82	43	177328	90.55	ug/l	97
17) Carbon Disulfide	4.05	76	409262	19.11	ug/l	98
18) Methyl Acetate	4.33	43	115309	18.93	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	379942	19.71	ug/l	99
20) Methylene Chloride	4.55	84	157106	18.70	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	146508	18.52	ug/l	99
22) Diisopropyl ether	5.96	45	449410	20.38	ug/l	97
23) Vinyl Acetate	5.90	43	1489366	99.80	ug/l	99
24) 1,1-Dichloroethane	5.85	63	268881	19.22	ug/l	99
25) 2-Butanone	6.84	43	278166	93.00	ug/l	98
26) 2,2-Dichloropropane	6.83	77	203845	17.80	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	165500	19.07	ug/l	99
28) Bromochloromethane	7.20	49	119847	19.24	ug/l	100
29) Tetrahydrofuran	7.22	42	189741	101.59	ug/l	99
30) Chloroform	7.37	83	267677	19.23	ug/l	99
31) Cyclohexane	7.65	56	239989	19.10	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	230444	19.43	ug/l	100
36) 1,1-Dichloropropene	7.80	75	205671	19.12	ug/l	99
37) Ethyl Acetate	6.93	43	130178	20.89	ug/l	99
38) Carbon Tetrachloride	7.77	117	205710	19.43	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	225582	19.00	ug/l	97
40) Benzene	8.04	78	636479	19.63	ug/l	99
41) Methacrylonitrile	7.18	41	70400m	21.90	ug/l	
42) 1,2-Dichloroethane	8.13	62	186689	19.76	ug/l	100
43) Isopropyl Acetate	8.17	43	220845	20.09	ug/l	99
44) Trichloroethene	8.84	130	167803	18.92	ug/l	98
45) 1,2-Dichloropropane	9.12	63	165717	19.78	ug/l	100
46) Dibromomethane	9.21	93	99636	19.49	ug/l	99
47) Bromodichloromethane	9.40	83	204542	19.68	ug/l	98
48) Methyl methacrylate	9.20	41	106188	19.82	ug/l	100
49) 1,4-Dioxane	9.20	88	32512	386.98	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	632430	104.02	ug/l	100
52) Toluene	10.16	92	394212	19.94	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	197947	19.03	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	235763	19.33	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	143529	19.99	ug/l	99
56) Ethyl methacrylate	10.43	69	173993	19.62	ug/l	99
57) 1,3-Dichloropropane	10.71	76	236419	19.86	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	351711	96.76	ug/l	100
59) 2-Hexanone	10.75	43	395348	95.88	ug/l	100
60) Dibromochloromethane	10.90	129	159154	19.66	ug/l	99
61) 1,2-Dibromoethane	11.01	107	137533	19.59	ug/l	100
64) Tetrachloroethene	10.63	164	155794	19.43	ug/l	98
65) Chlorobenzene	11.43	112	420950	19.00	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	156152	19.58	ug/l	99
67) Ethyl Benzene	11.51	91	694838	19.37	ug/l	100
68) m/p-Xylenes	11.62	106	542006	39.32	ug/l	98
69) o-Xylene	11.95	106	261357	19.58	ug/l	99
70) Styrene	11.96	104	408122	19.71	ug/l	98
71) Bromoform	12.13	173	111817	19.91	ug/l #	100
73) Isopropylbenzene	12.25	105	686455	20.15	ug/l	100
74) N-amyl acetate	12.07	43	168114	19.61	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	180709	22.24	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	141994m	21.71	ug/l	
77) Bromobenzene	12.53	156	177495	19.40	ug/l	99
78) n-propylbenzene	12.59	91	748234	19.98	ug/l	99
79) 2-Chlorotoluene	12.67	91	458217	19.58	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	560944	20.37	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	41160	19.24	ug/l	98
82) 4-Chlorotoluene	12.77	91	445185	19.16	ug/l	99
83) tert-Butylbenzene	12.99	119	480663	19.77	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	555316	20.51	ug/l	98
85) sec-Butylbenzene	13.17	105	619655	19.87	ug/l	100
86) p-Isopropyltoluene	13.29	119	532998	20.16	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	280557	18.07	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	275266	19.32	ug/l	100
89) n-Butylbenzene	13.62	91	378689	18.40	ug/l	99
90) Hexachloroethane	13.87	117	100987	20.62	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	282344	18.67	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	23066	20.22	ug/l	99

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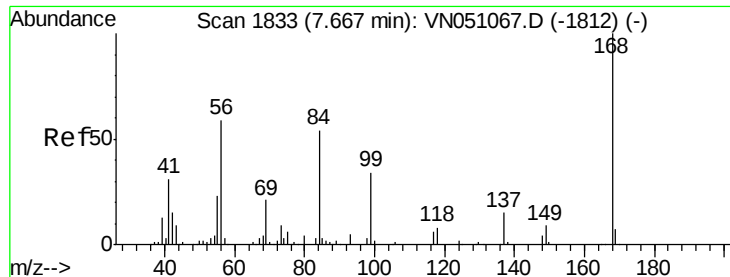
Manual Integrations
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MMDadoda
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	105616	17.28	ug/l	99
94) Hexachlorobutadiene	15.01	225	88456	18.98	ug/l	98
95) Naphthalene	15.13	128	203069	17.22	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	109894	17.76	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion:168 Resp: 683589

Ion Ratio Lower Upper

168 100

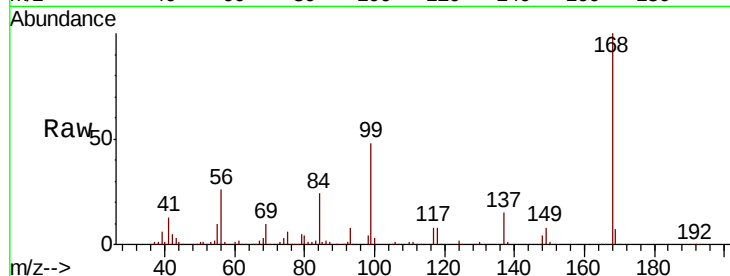
99 47.7 38.3 57.5

Manual Integrations

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9/11/2018 9:40:59 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

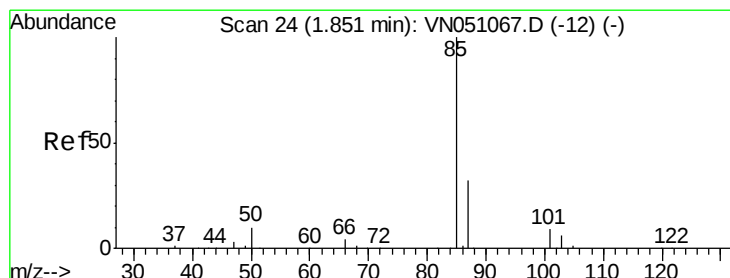
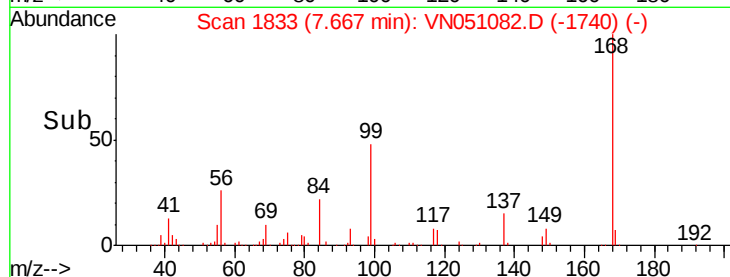
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.74 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN051082.D

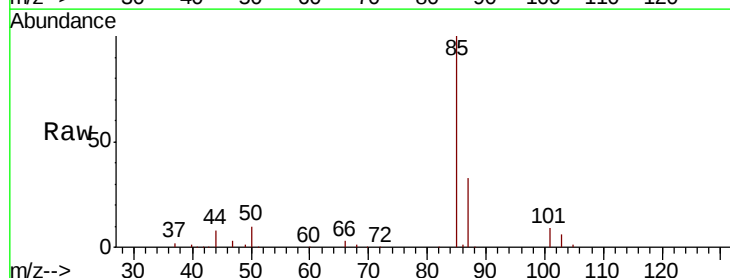
Acq: 10 Sep 2018 16:59

Tgt Ion: 85 Resp: 123532

Ion Ratio Lower Upper

85 100

87 32.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

100000

80000

60000

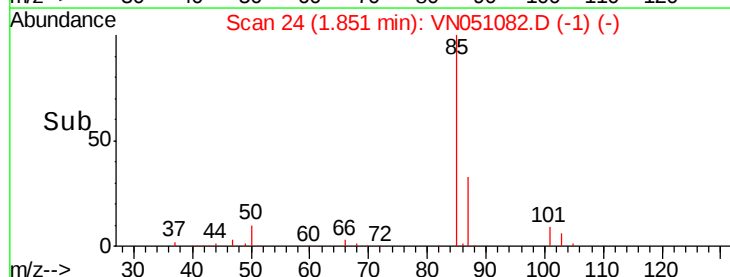
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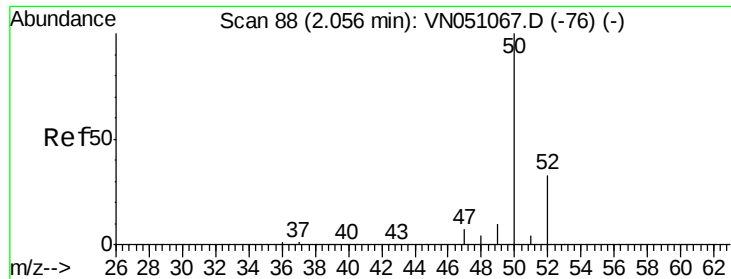
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.59 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 50 Resp: 169561

Ion Ratio Lower Upper

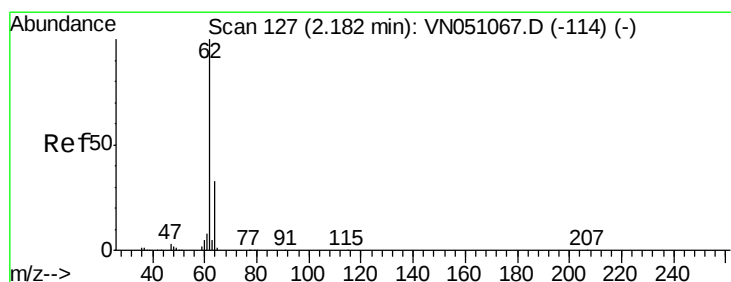
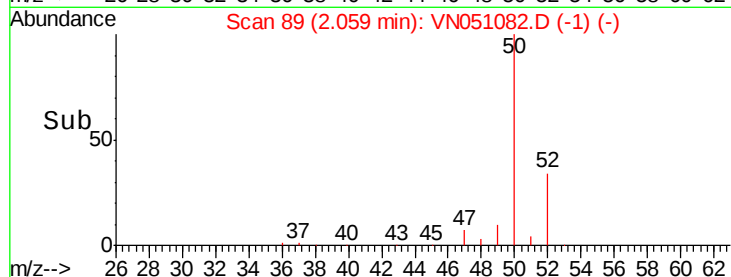
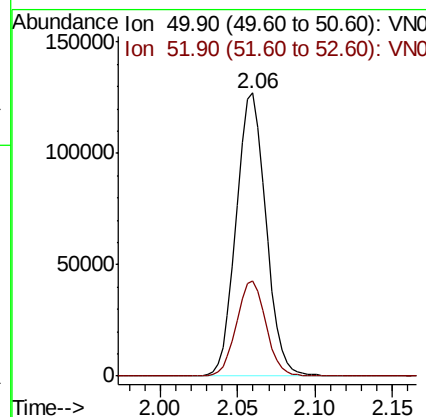
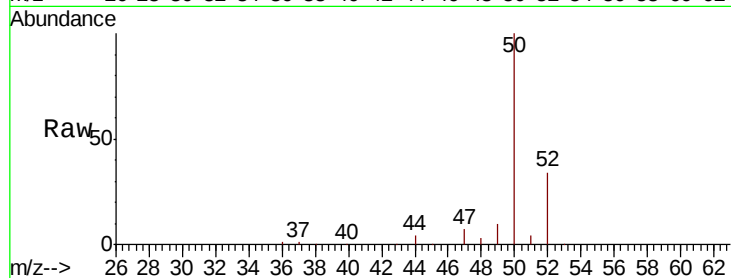
50 100

52 33.7 26.0 39.0

Manual Integrations
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#4

Vinyl Chloride

Concen: 19.01 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051082.D

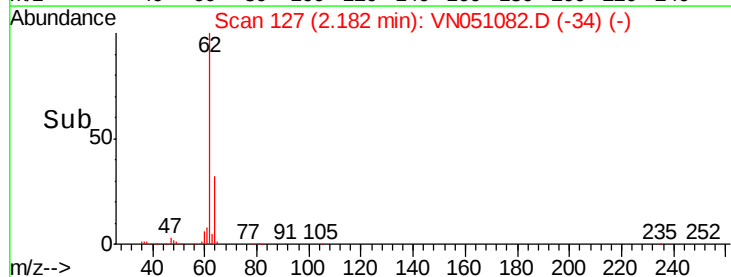
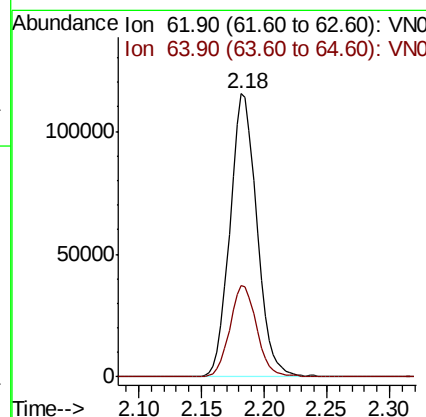
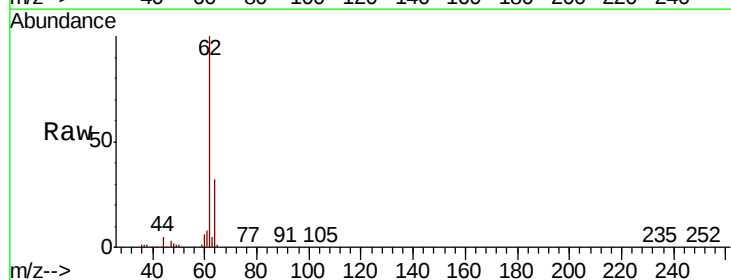
Acq: 10 Sep 2018 16:59

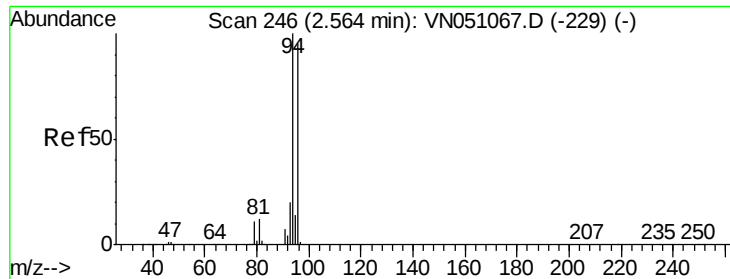
Tgt Ion: 62 Resp: 171985

Ion Ratio Lower Upper

62 100

64 32.2 26.2 39.4





#5

Bromomethane

Concen: 19.44 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

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ClientSampleId :

VN0910MBSD01

Tot Ion: 94 Resp: 102338

Ion Ratio Lower Upper

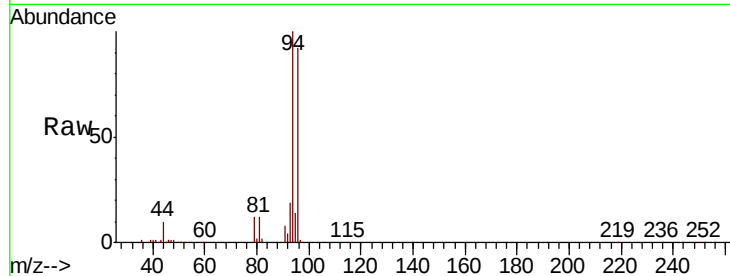
94 100

96 91.6 75.9 113.9

Manual Integrations
APPROVED

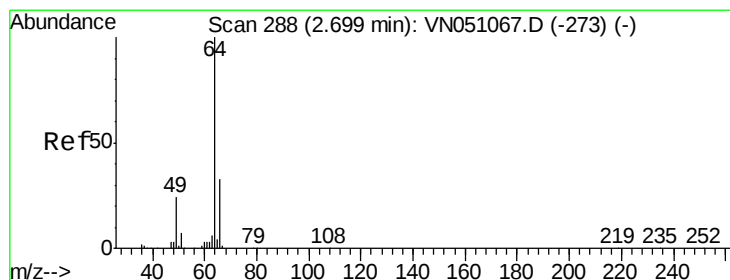
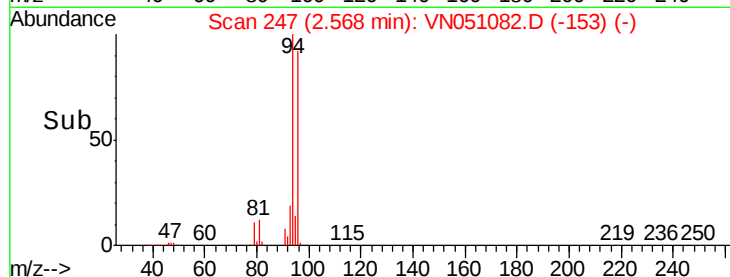
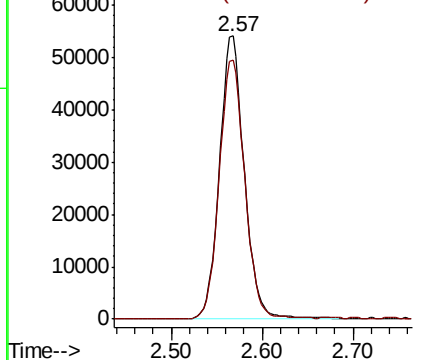
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.61 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051082.D

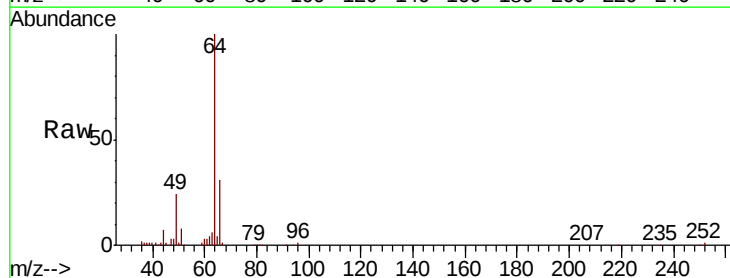
Acq: 10 Sep 2018 16:59

Tgt Ion: 64 Resp: 103956

Ion Ratio Lower Upper

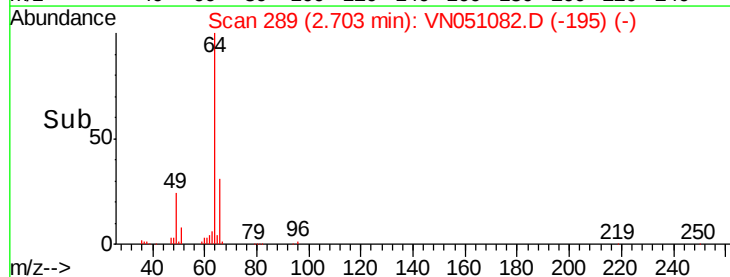
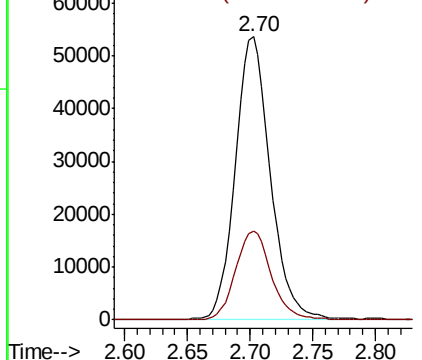
64 100

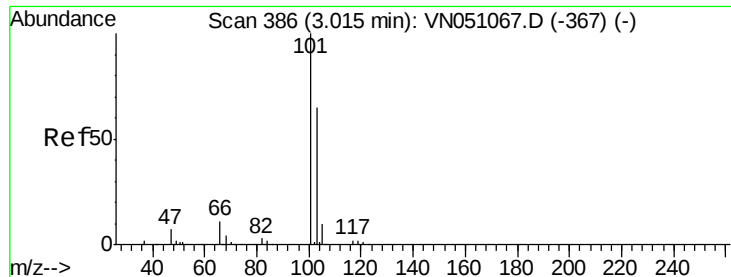
66 31.3 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

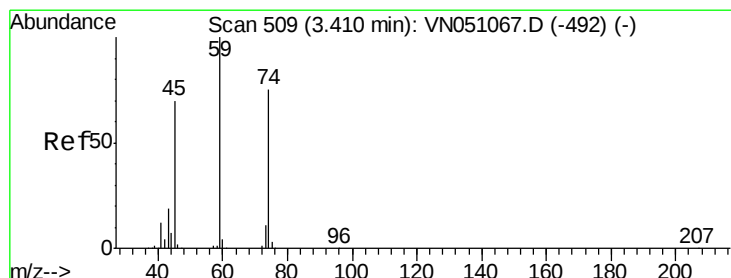
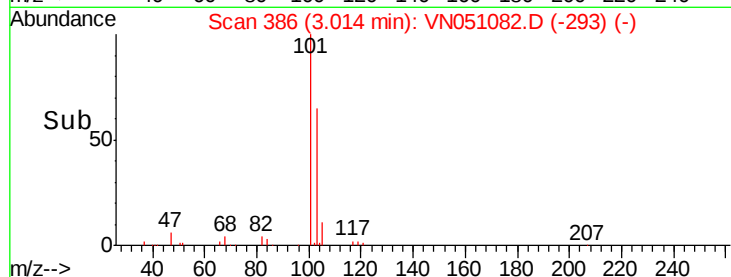
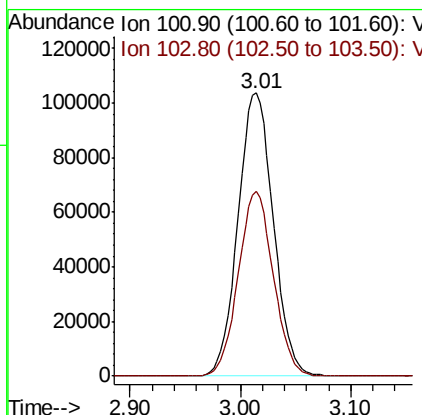
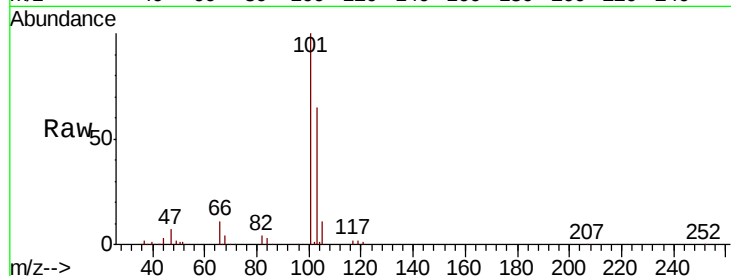
Trichlorofluoromethane
 Concen: 19.18 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. -0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Instrument :
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 VN0910MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		230024		
103	65.1	52.4	78.6		

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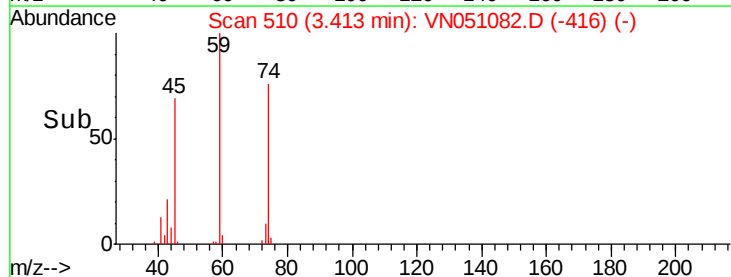
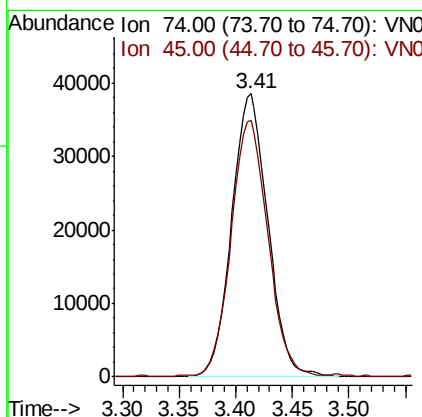
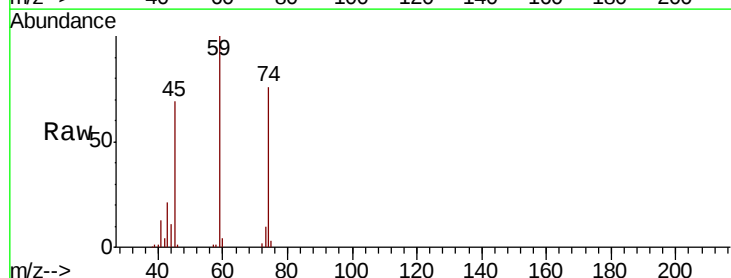
MMDadoda
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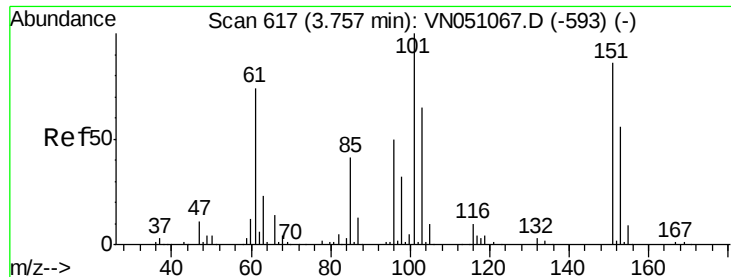


#8

Diethyl Ether
 Concen: 19.43 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		85693		
45	92.7	46.7	140.0		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.75 ug/l

RT: 3.76 min Scan# 617

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

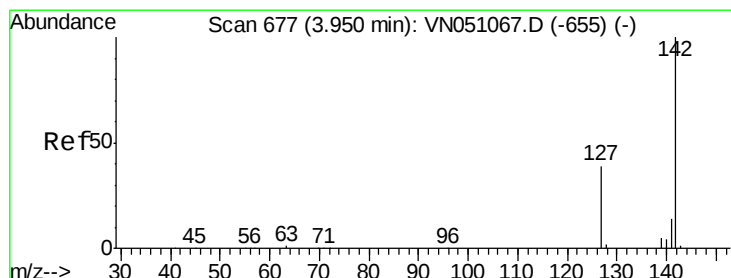
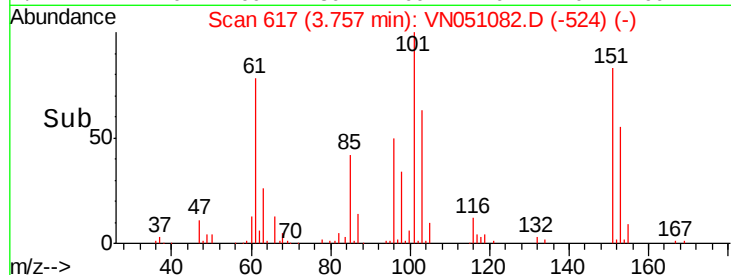
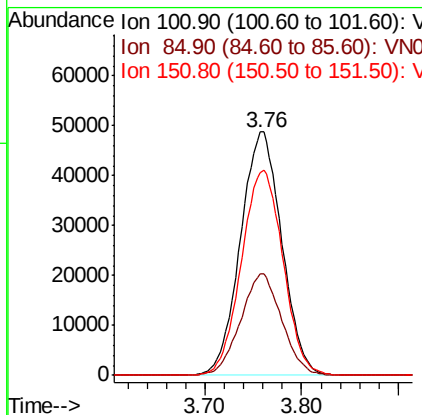
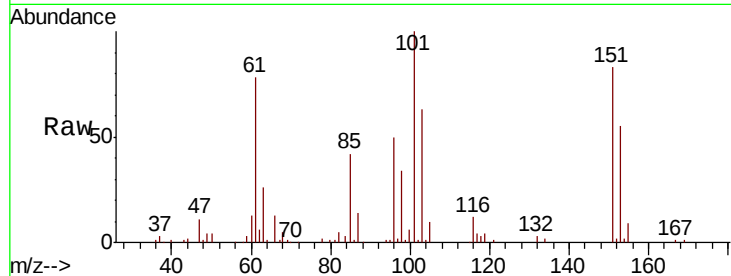
ClientSampleId :

VN0910MBSD01

Tot Ion:	101	Resp:	144919
Ion Ratio	Lower	Upper	
101	100		
85	41.4	33.3	49.9
151	84.6	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 20.30 ug/l

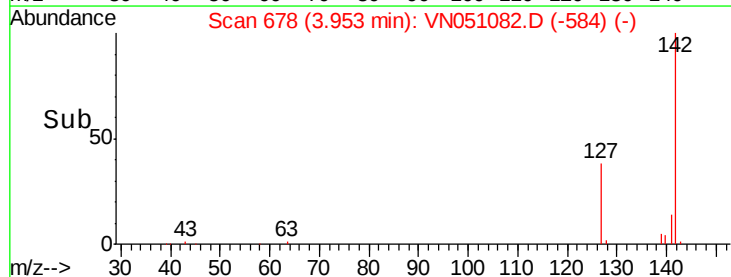
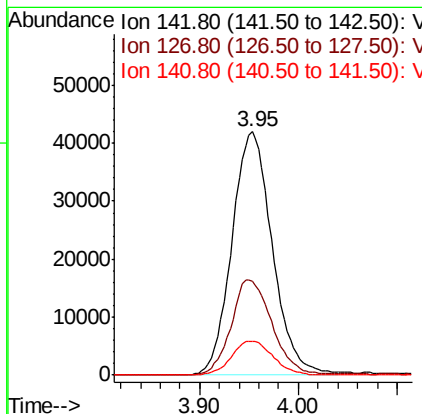
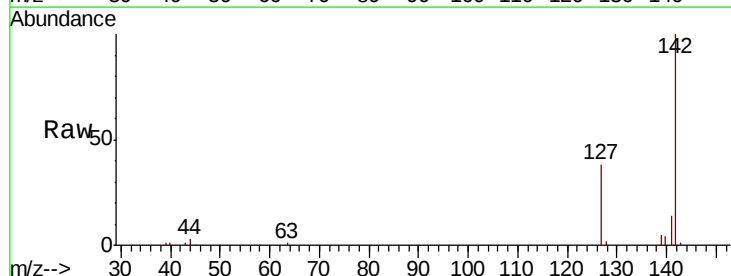
RT: 3.95 min Scan# 678

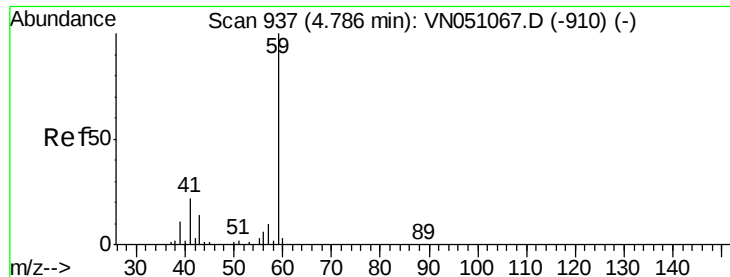
Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Tgt Ion:	142	Resp:	119497
Ion Ratio	Lower	Upper	
142	100		
127	39.7	31.0	46.4
141	14.2	11.3	16.9





#11

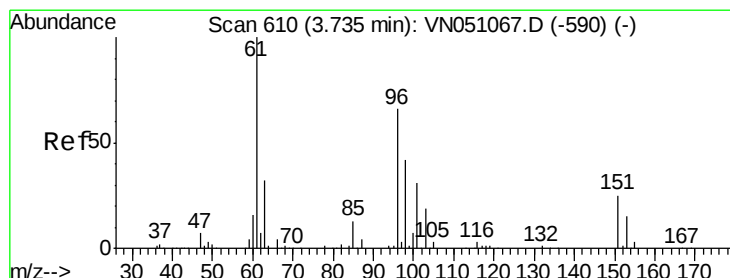
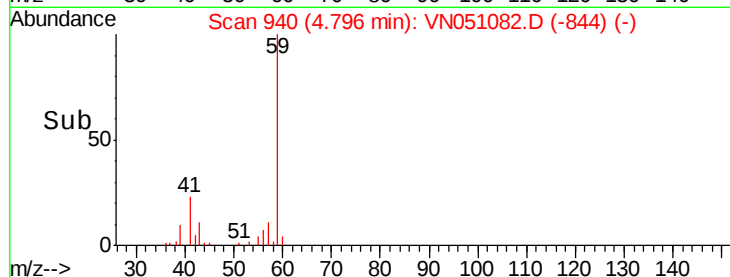
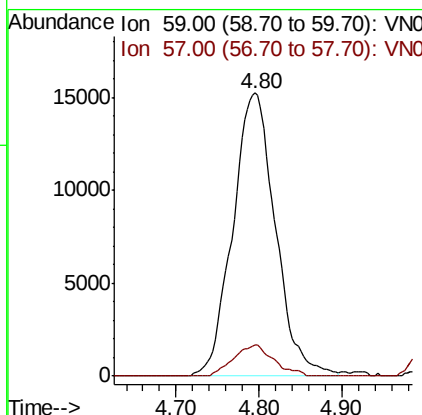
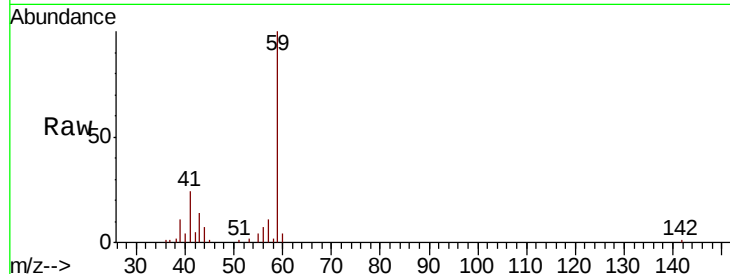
Tert butyl alcohol
Concen: 93.67 ug/l
RT: 4.80 min Scan# 940
Delta R.T. 0.01 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.1	12.1

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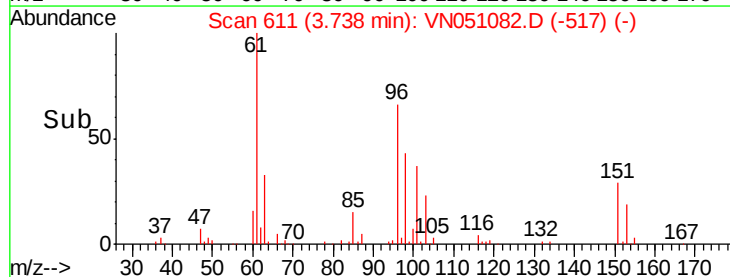
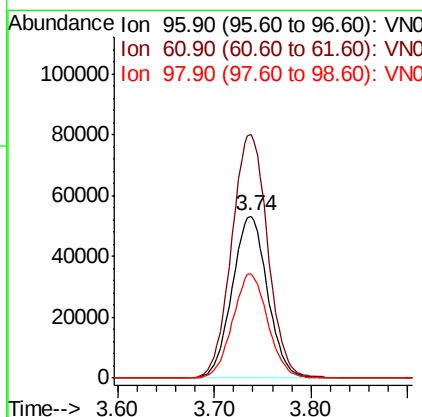
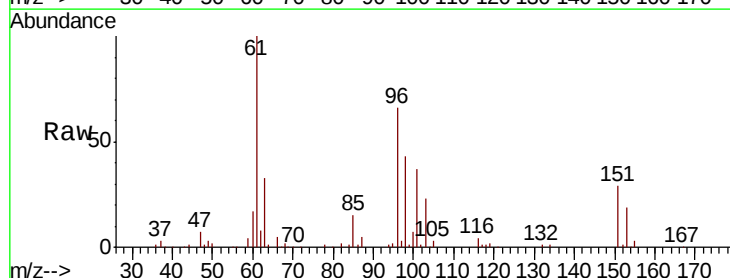
MMDadoda
9/11/2018 9:40:59 AM

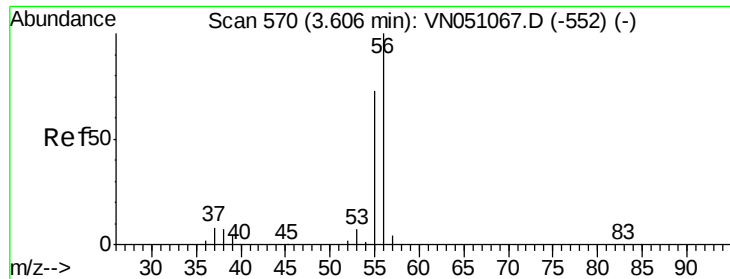


#12

1,1-Dichloroethene
Concen: 18.55 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.5	120.3	180.5
98	64.2	50.8	76.2





#13

Acrolein

Concen: 116.99 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 56 Resp: 72828

Ion Ratio Lower Upper

56 100

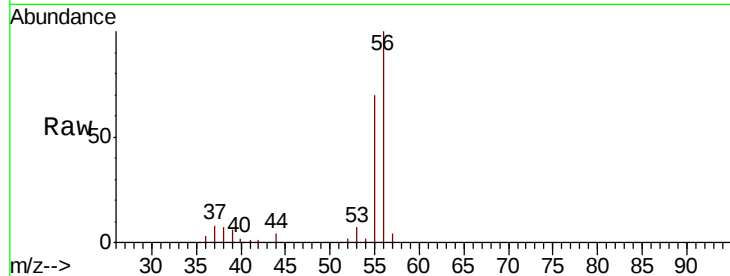
55 70.5 58.0 87.0

Manual Integrations

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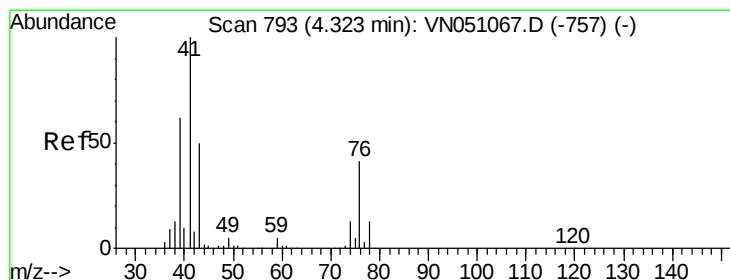
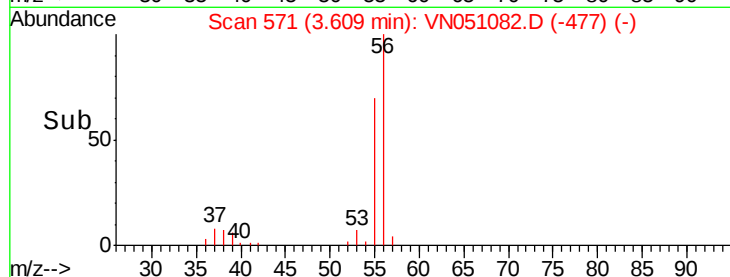
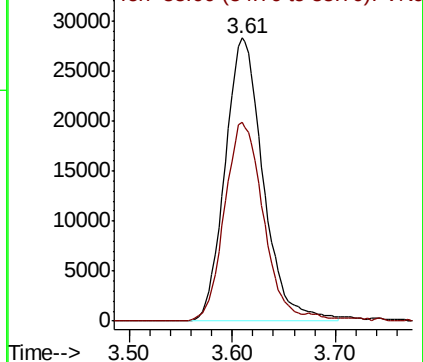
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.51 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

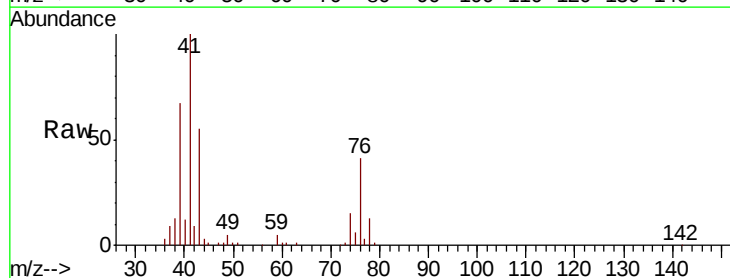
Tgt Ion: 41 Resp: 205596

Ion Ratio Lower Upper

41 100

39 61.9 48.8 73.2

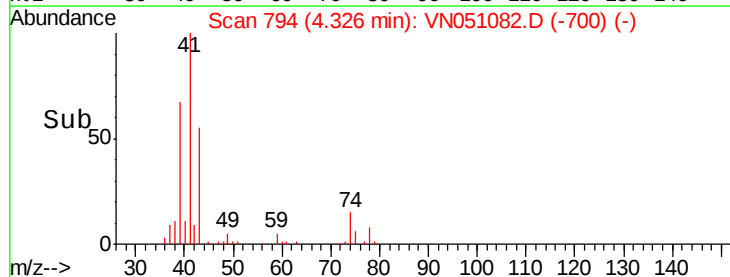
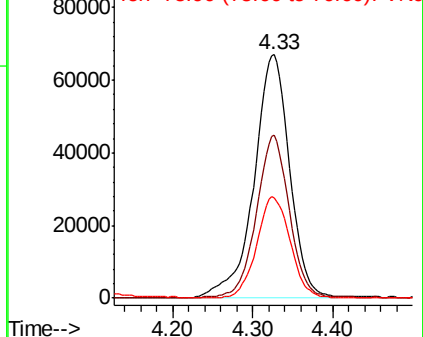
76 39.4 30.6 45.8

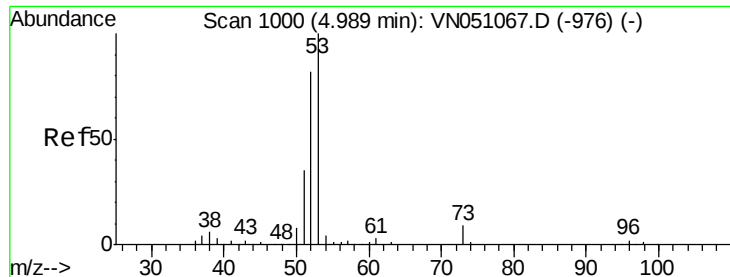


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 98.50 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

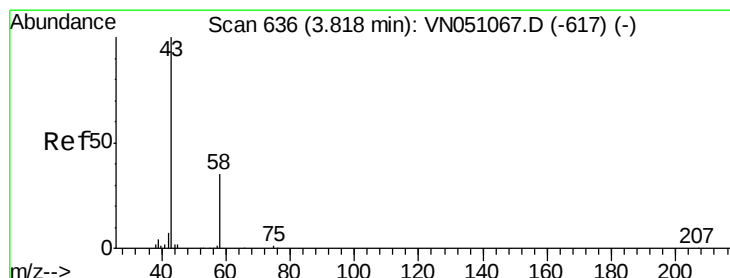
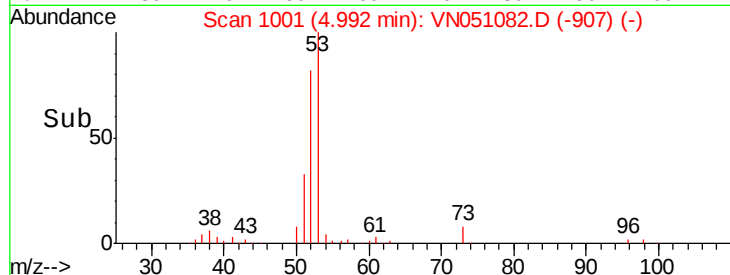
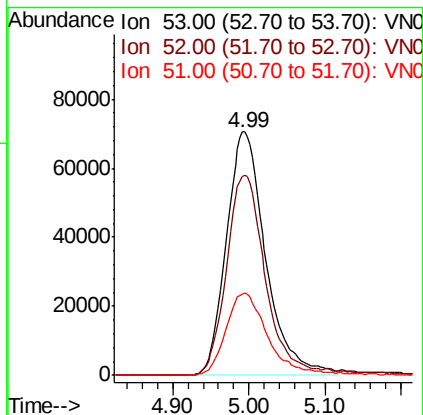
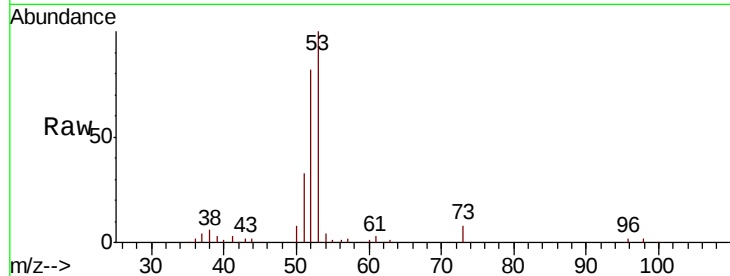
ClientSampleId :

VN0910MBSD01

Tot Ion:	53	Resp:	253609
Ion Ratio	Lower	Upper	
53	100		
52	80.7	65.3	97.9
51	35.5	28.2	42.2

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#16

Acetone

Concen: 90.55 ug/l

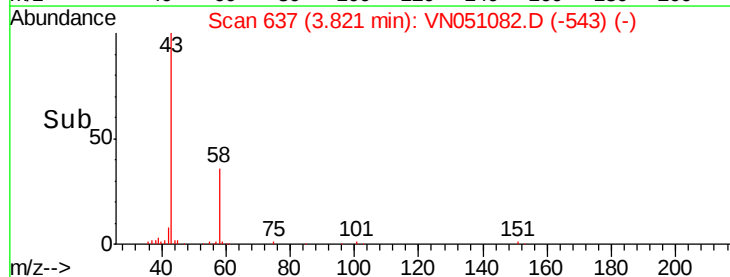
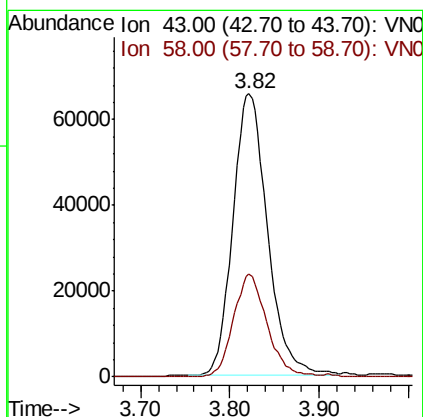
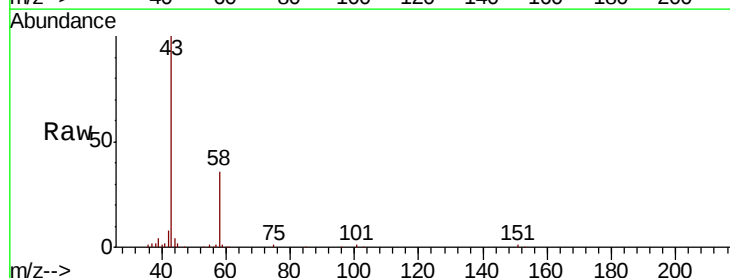
RT: 3.82 min Scan# 637

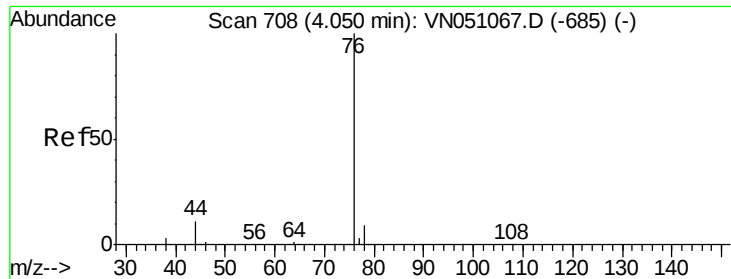
Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Tgt Ion:	43	Resp:	177328
Ion Ratio	Lower	Upper	
43	100		
58	36.6	27.8	41.6





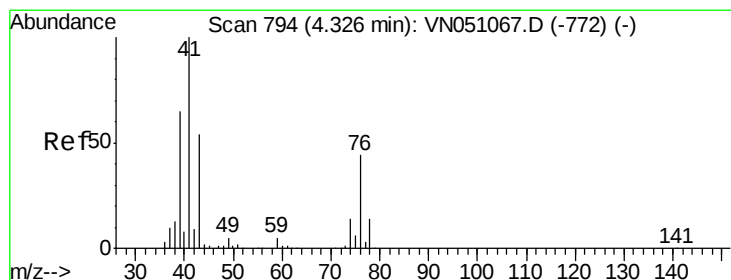
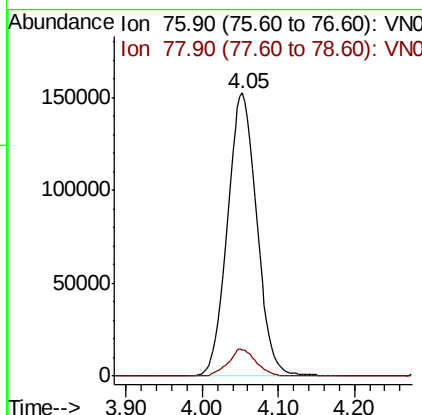
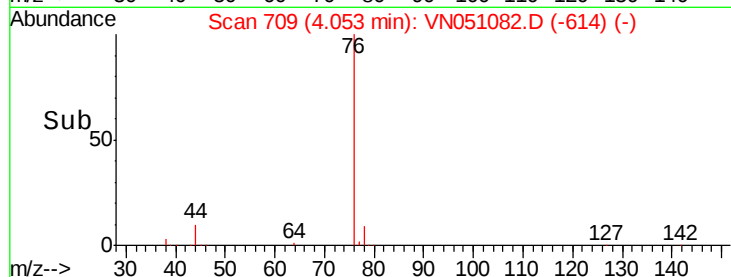
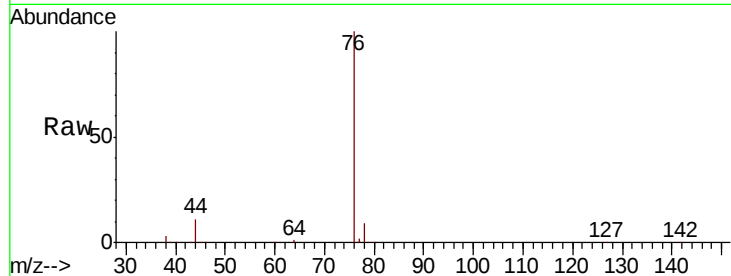
#17
Carbon Disulfide
Concen: 19.11 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.0	10.6

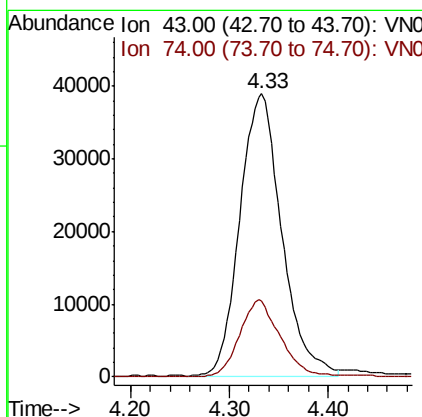
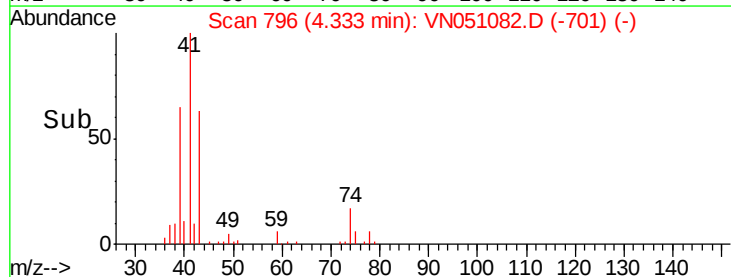
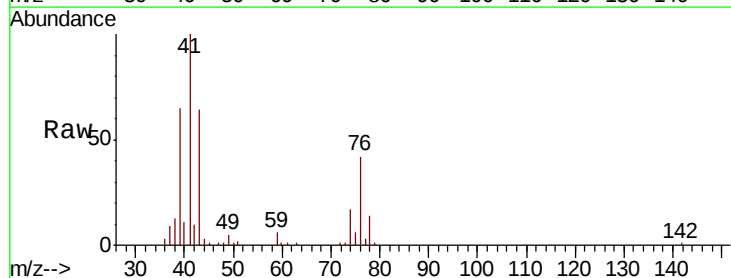
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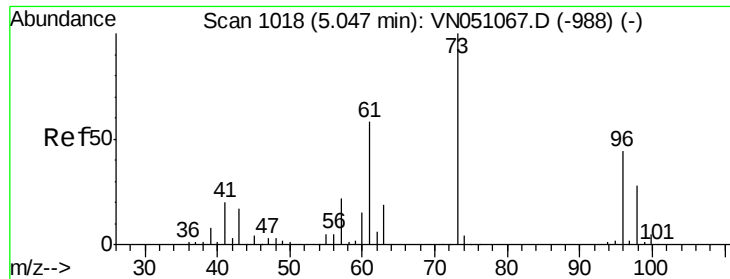
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#18
Methyl Acetate
Concen: 18.93 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
43	100		
74	26.5	20.7	31.1





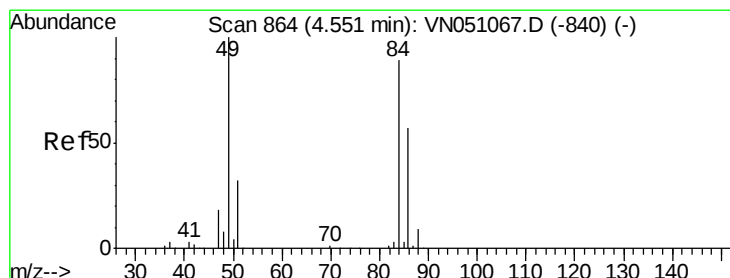
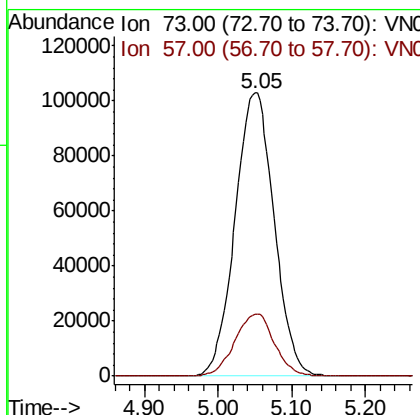
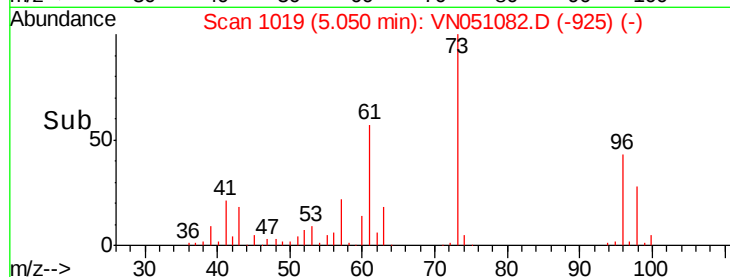
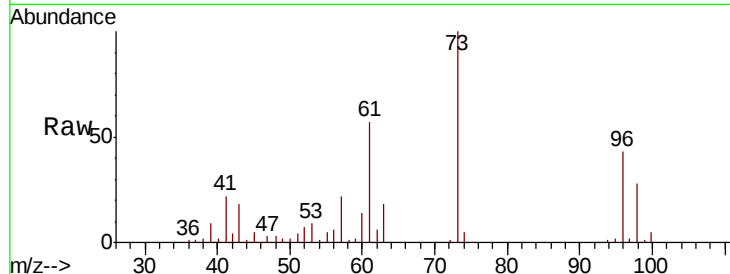
#19
Methyl tert-butyl Ether
Concen: 19.71 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion: 73 Resp: 379942
Ion Ratio Lower Upper
73 100
57 21.8 17.9 26.9

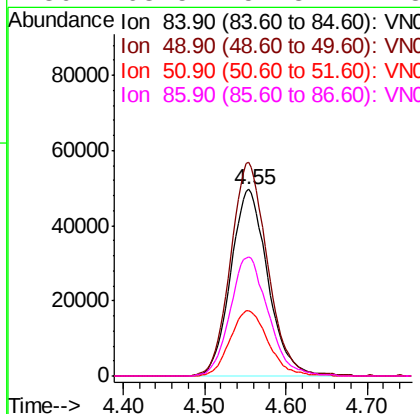
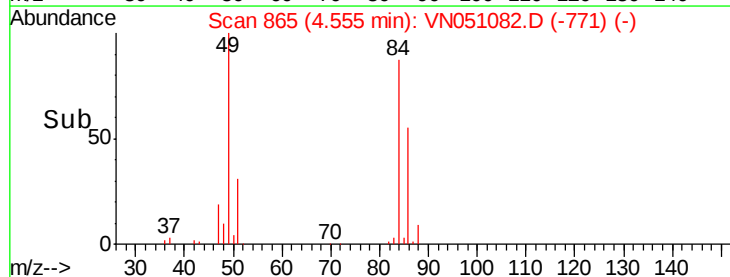
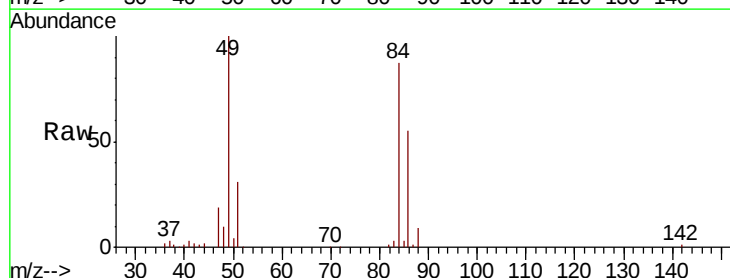
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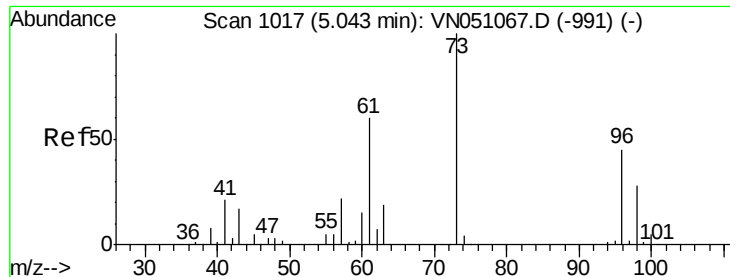
MMDadoda
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#20
Methylene Chloride
Concen: 18.70 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion: 84 Resp: 157106
Ion Ratio Lower Upper
84 100
49 114.4 90.2 135.2
51 35.3 28.4 42.6
86 63.5 51.8 77.8





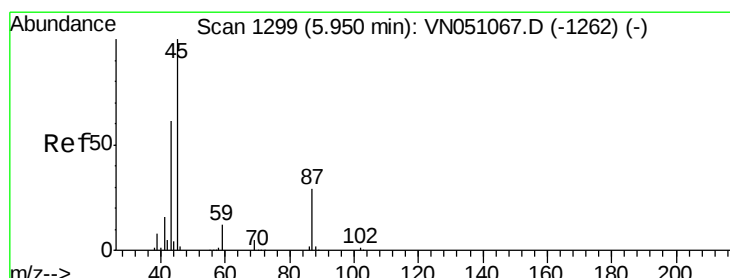
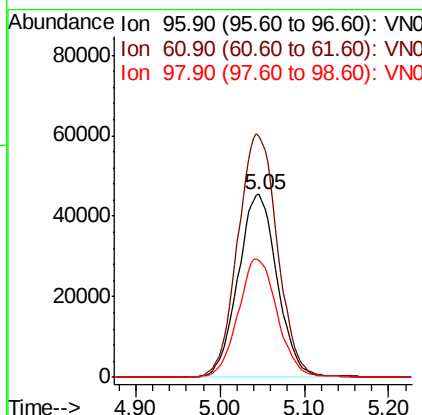
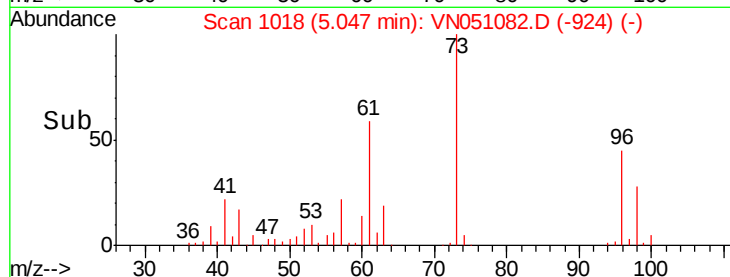
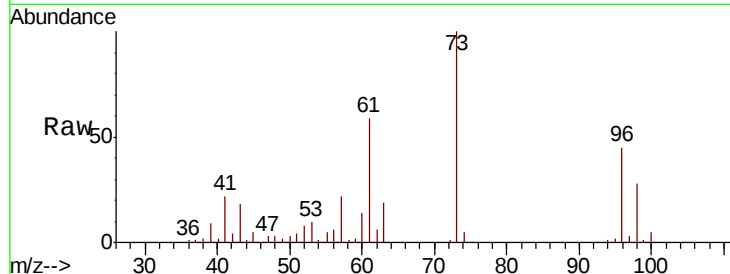
#21
trans-1,2-Dichloroethene
Concen: 18.52 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.6	106.5	159.7
98	63.5	50.4	75.6

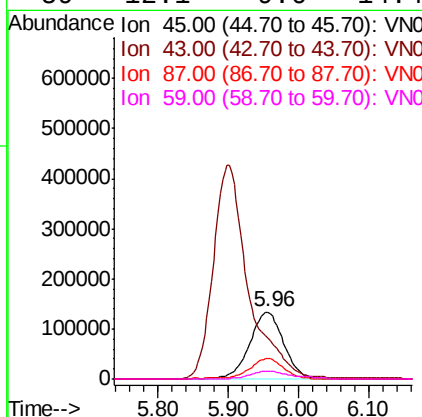
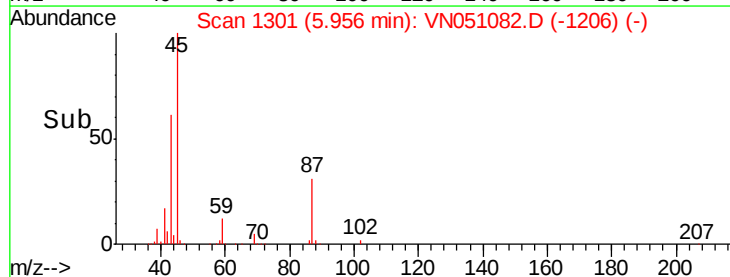
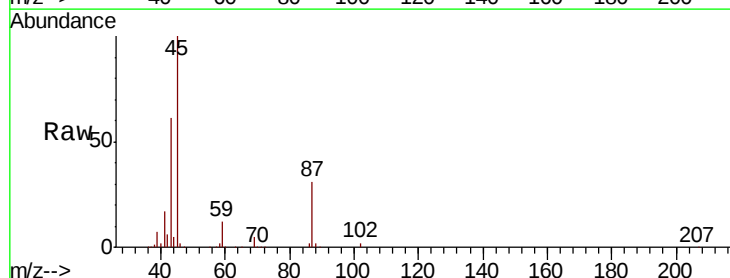
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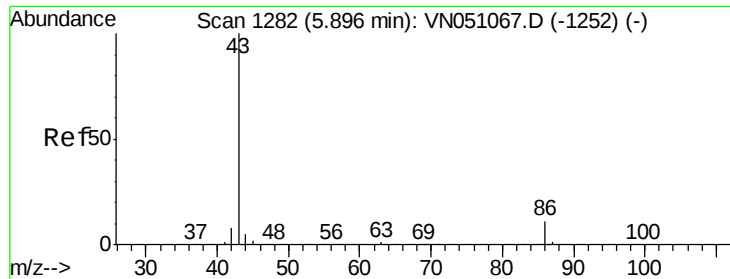
MMDadoda
9/11/2018 9:40:59 AM



#22
Diisopropyl ether
Concen: 20.38 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.01 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.4	48.8	73.2
87	30.8	23.8	35.8
59	12.1	9.6	14.4





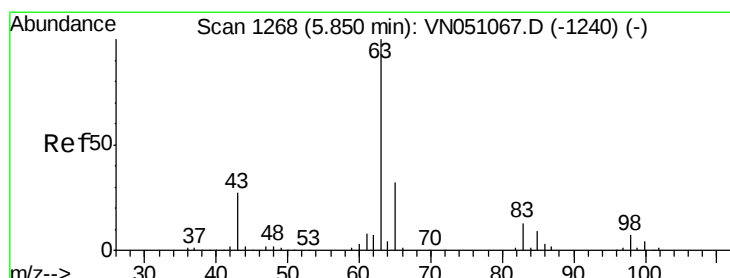
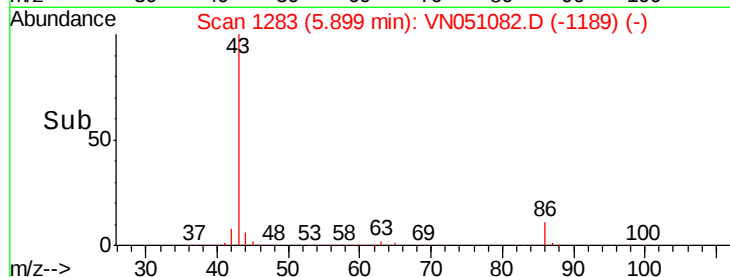
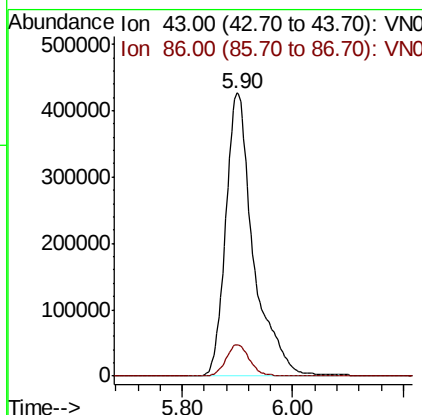
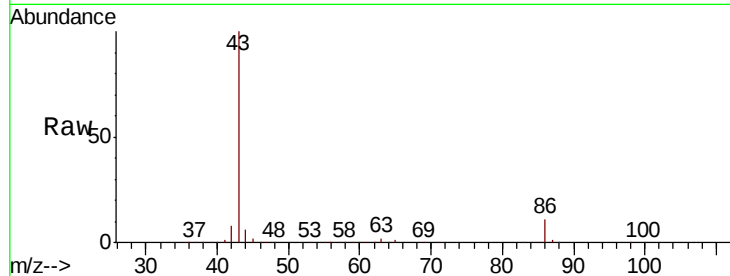
#23
 Vinyl Acetate
 Concen: 99.80 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910MBSD01

Tot Ion: 43 Resp: 1489366
 Ion Ratio Lower Upper
 43 100
 86 11.2 9.2 13.8

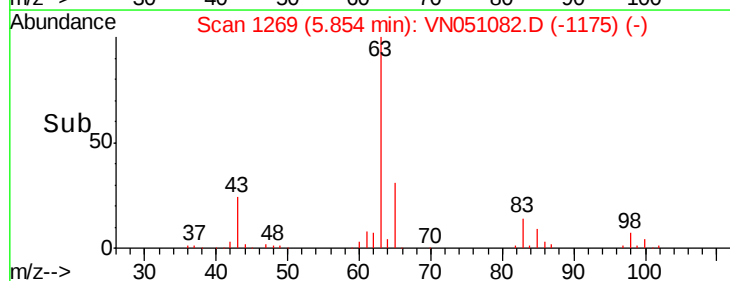
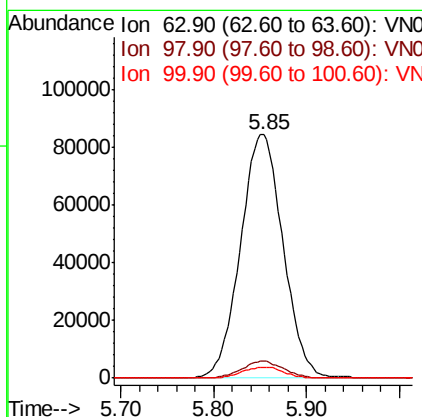
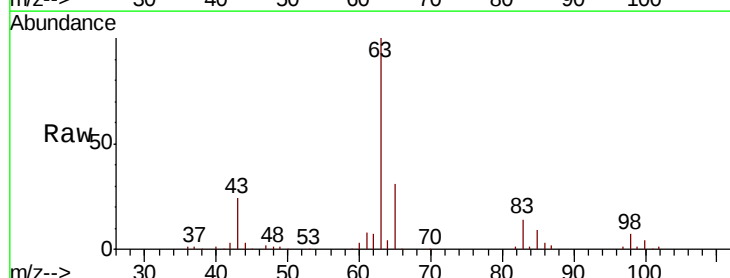
Manual Integrations
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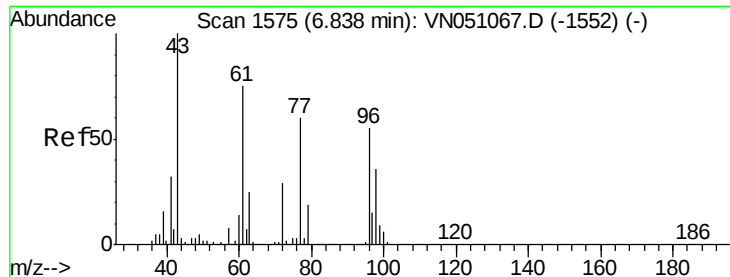
MMDadoda
 9/11/2018 9:40:59 AM



#24
 1,1-Dichloroethane
 Concen: 19.22 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Tgt Ion: 63 Resp: 268881
 Ion Ratio Lower Upper
 63 100
 98 7.0 3.4 10.1
 100 4.1 2.1 6.3





#25

2-Butanone

Concen: 93.00 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampled :

VN0910MBSD01

Tot Ion: 43 Resp: 278166

Ion Ratio Lower Upper

43 100

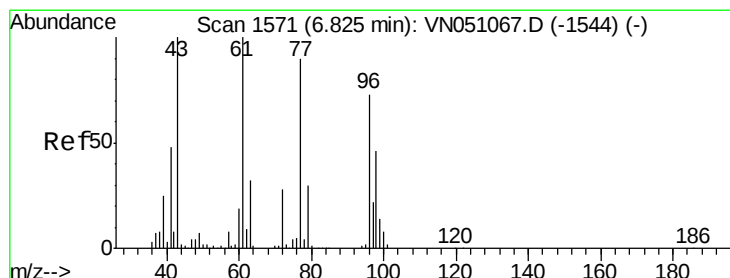
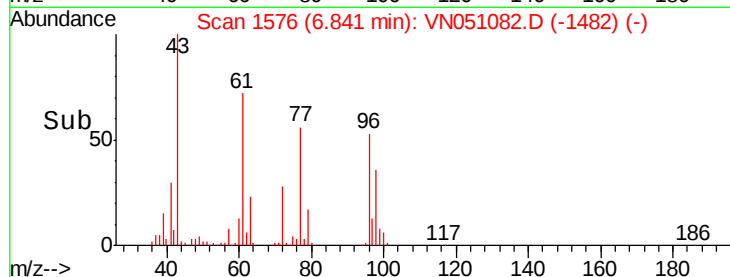
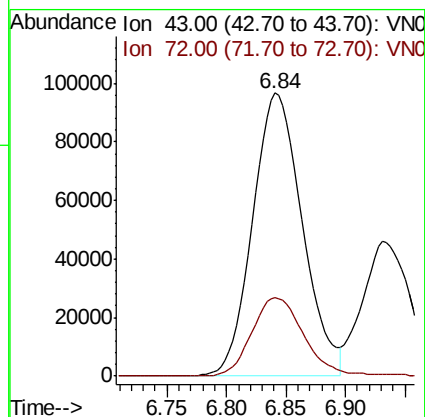
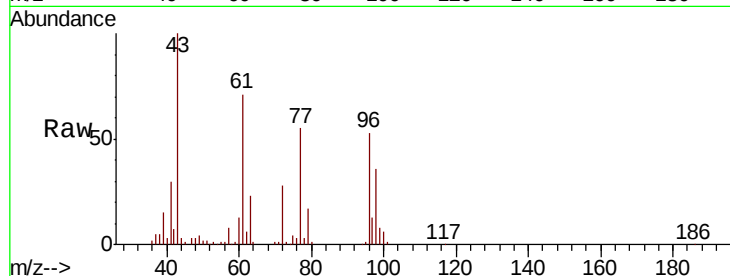
72 27.7 23.0 34.6

Manual Integrations

APPROVED

MMDadoda

9/11/2018 9:40:59 AM



#26

2,2-Dichloropropane

Concen: 17.80 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051082.D

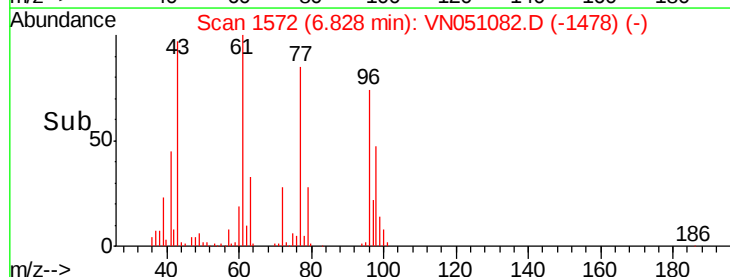
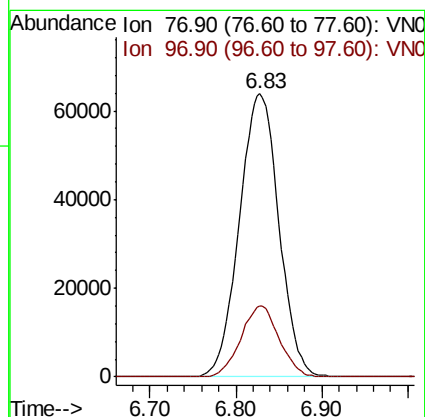
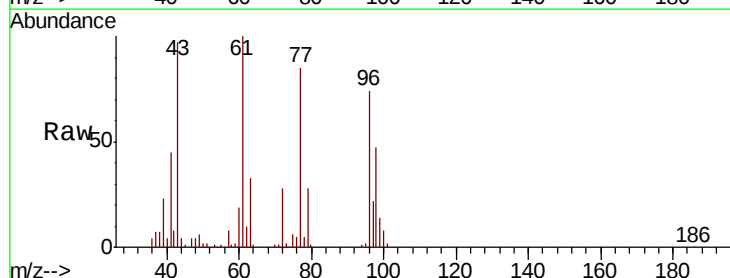
Acq: 10 Sep 2018 16:59

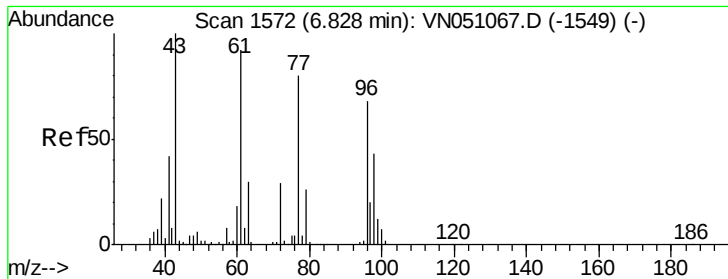
Tgt Ion: 77 Resp: 203845

Ion Ratio Lower Upper

77 100

97 24.2 12.1 36.3





#27

cis-1,2-Dichloroethene

Concen: 19.07 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

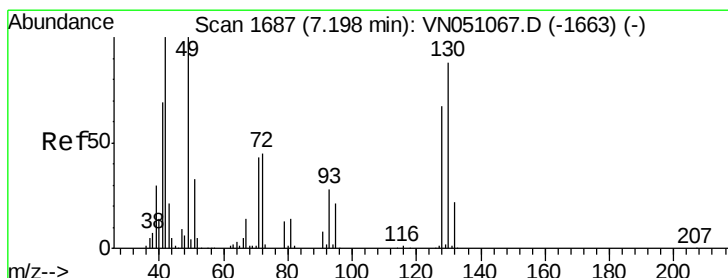
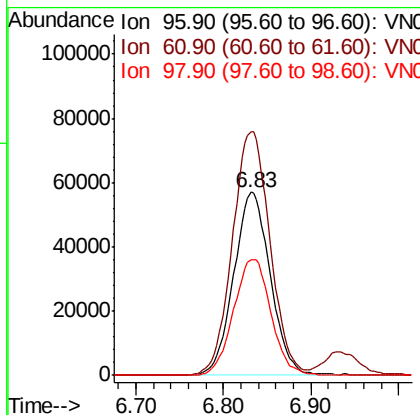
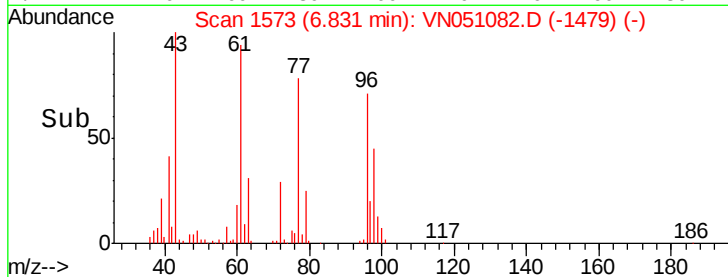
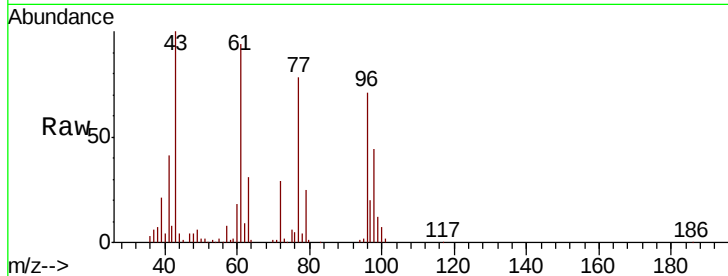
ClientSampleId :

VN0910MBSD01

Tot Ion:	96	Resp:	165500
Ion	Ratio	Lower	Upper
96	100		
61	136.9	0.0	278.2
98	64.6	0.0	129.4

Manual Integrations
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MMDadoda
9/11/2018 9:40:59 AM



#28

Bromochloromethane

Concen: 19.24 ug/l

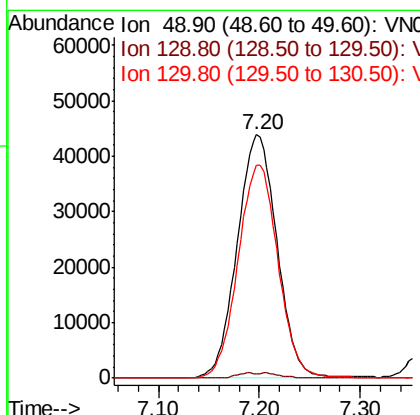
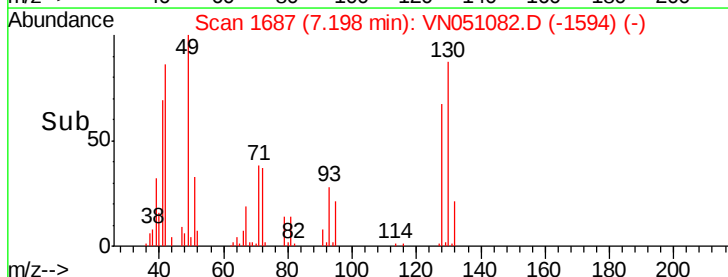
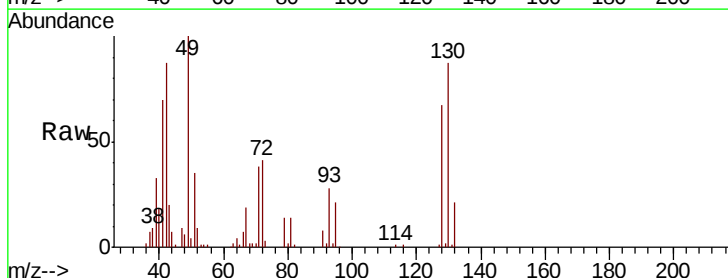
RT: 7.20 min Scan# 1687

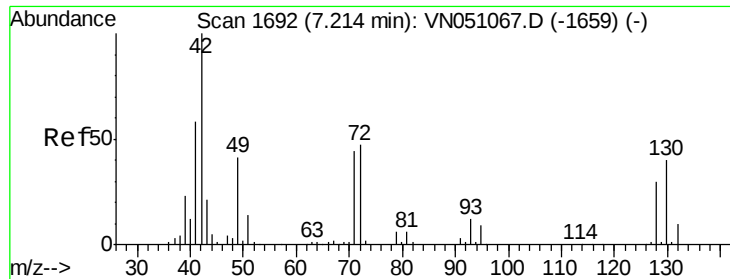
Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Tgt Ion:	49	Resp:	119847
Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.4
130	88.3	70.7	106.1





#29

Tetrahydrofuran

Concen: 101.59 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

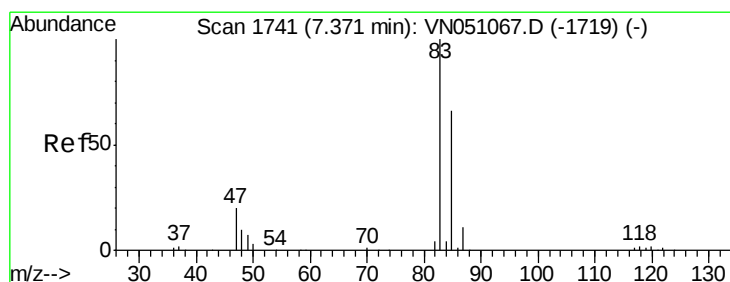
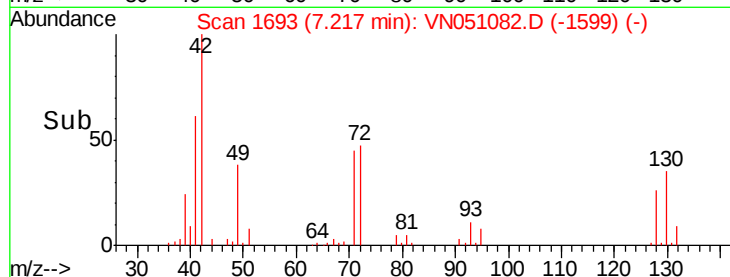
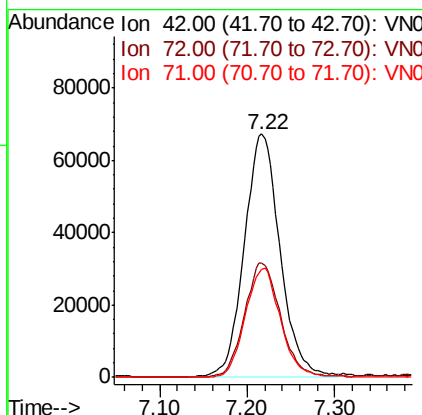
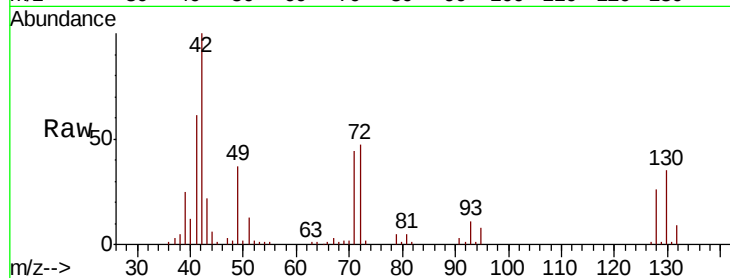
ClientSampleId :

VN0910MBSD01

Tot Ion:	42	Resp:	189741
Ion Ratio		Lower	Upper
42	100		
72	47.5	37.4	56.0
71	44.2	34.7	52.1

Manual Integrations
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MMDadoda
9/11/2018 9:40:59 AM



#30

Chloroform

Concen: 19.23 ug/l

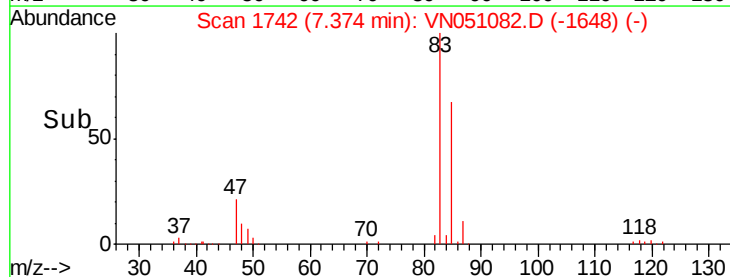
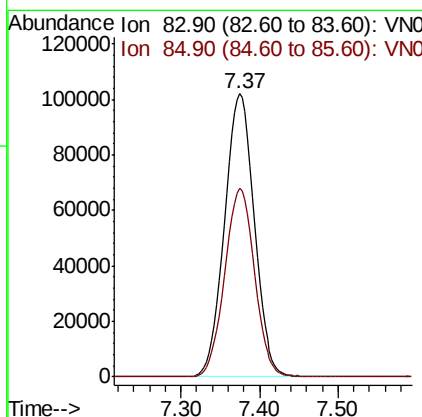
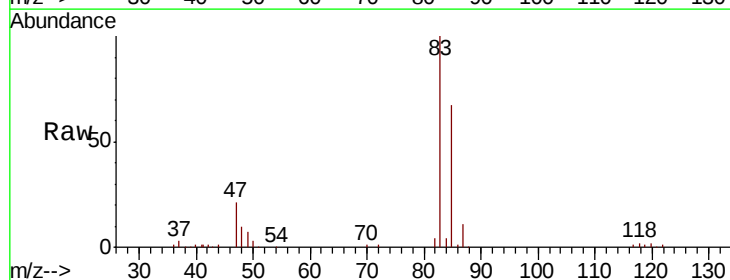
RT: 7.37 min Scan# 1742

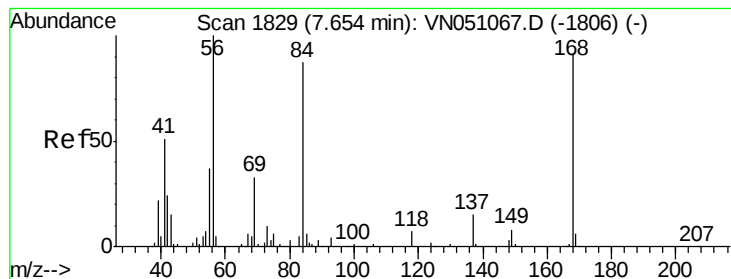
Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Tgt Ion:	83	Resp:	267677
Ion Ratio		Lower	Upper
83	100		
85	66.8	52.6	79.0





#31

Cyclohexane

Concen: 19.10 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 56 Resp: 239989

Ion Ratio Lower Upper

56 100

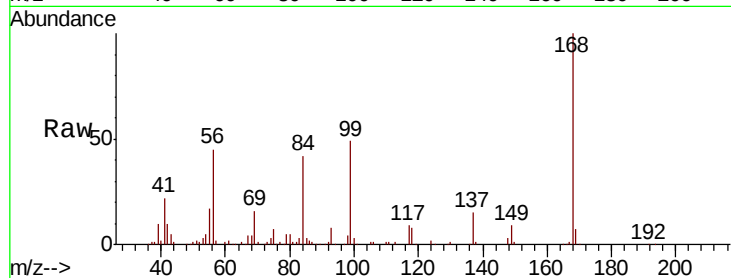
69 36.5 26.3 39.5

84 92.4 69.4 104.0

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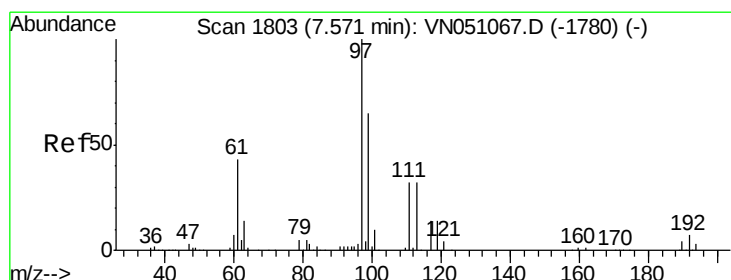
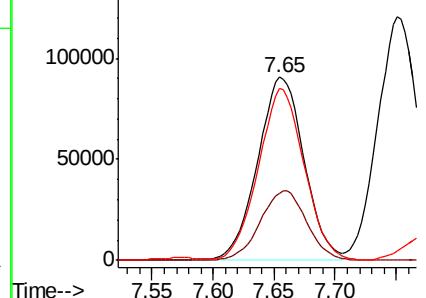
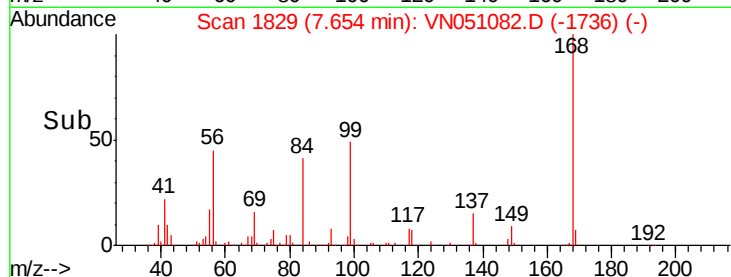
9/11/2018 9:40:59 AM



Abundance Ion 56.00 (55.70 to 56.70): VN051082.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN051082.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN051082.D (-1736) (-)



#32

1,1,1-Trichloroethane

Concen: 19.43 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

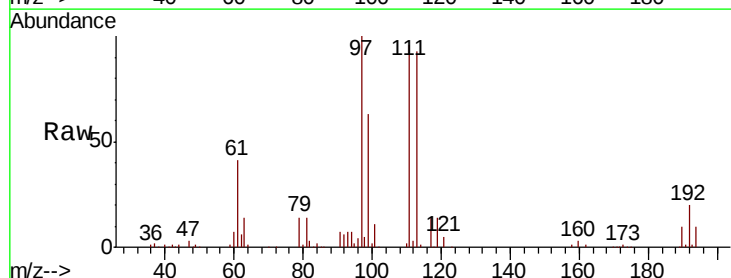
Tgt Ion: 97 Resp: 230444

Ion Ratio Lower Upper

97 100

99 64.6 51.6 77.4

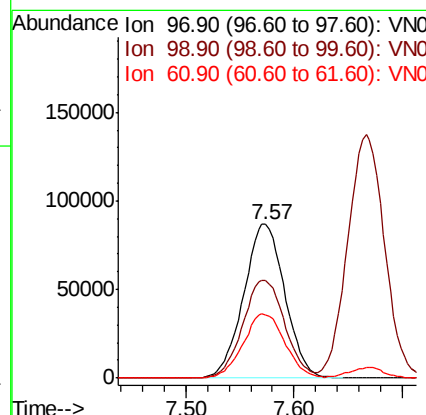
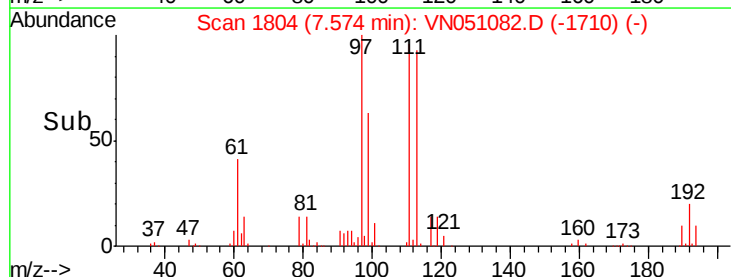
61 42.2 33.8 50.6

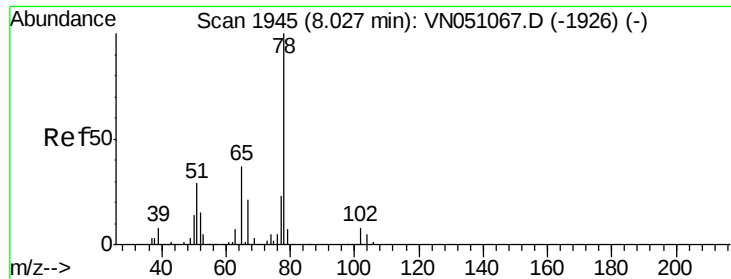


Abundance Ion 96.90 (96.60 to 97.60): VN051082.D (-1710) (-)

Ion 98.90 (98.60 to 99.60): VN051082.D (-1710) (-)

Ion 60.90 (60.60 to 61.60): VN051082.D (-1710) (-)





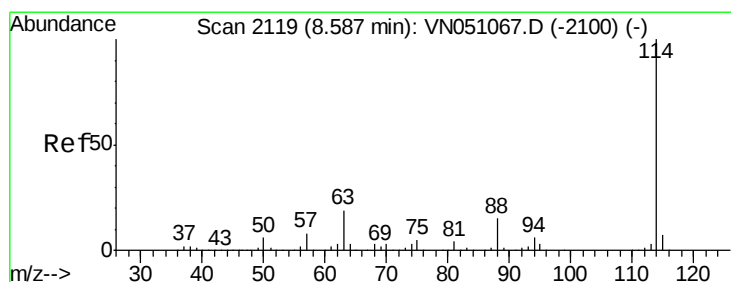
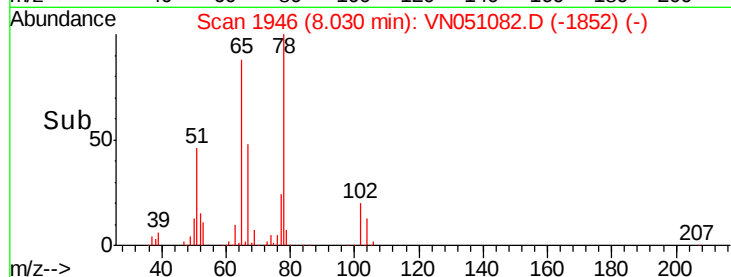
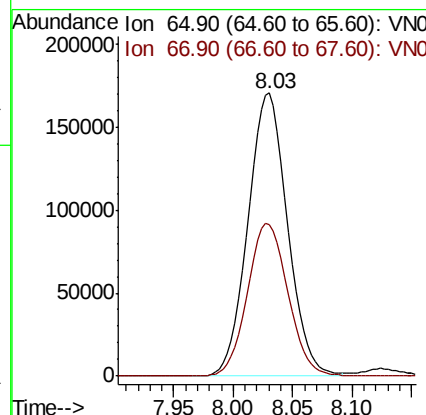
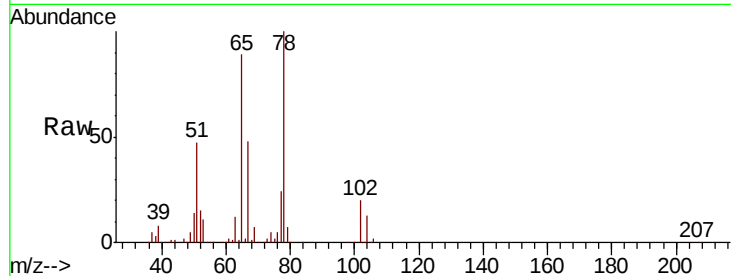
#33
 1,2-Dichloroethane-d4
 Concen: 51.62 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	392657		
67	55.2	0.0	112.0	

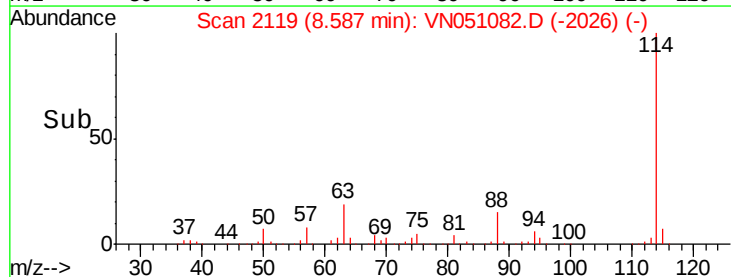
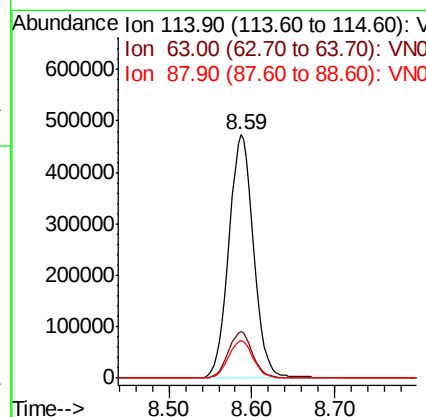
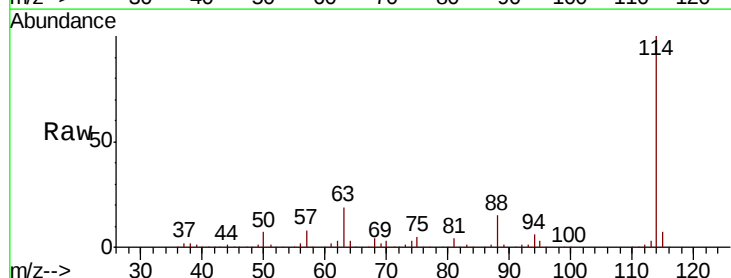
Manual Integrations
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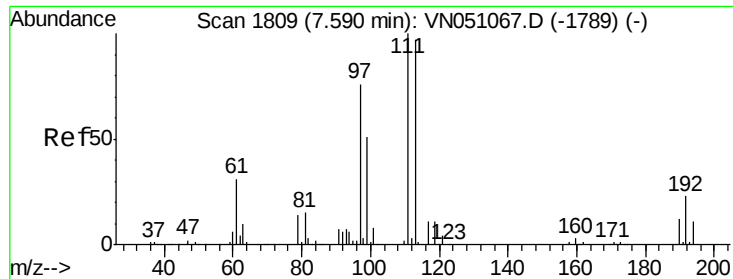
MMDadoda
 9/11/2018 9:40:59 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	979890		
63	19.2	0.0	37.8	
88	15.4	0.0	30.8	





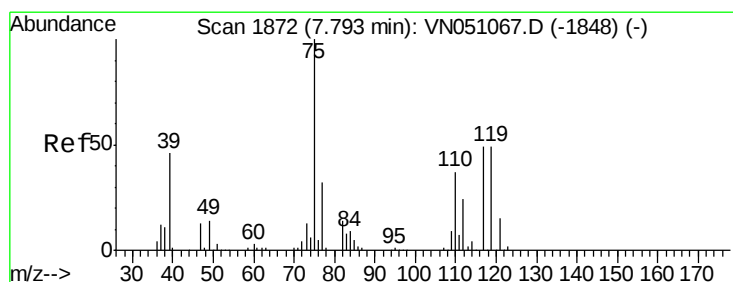
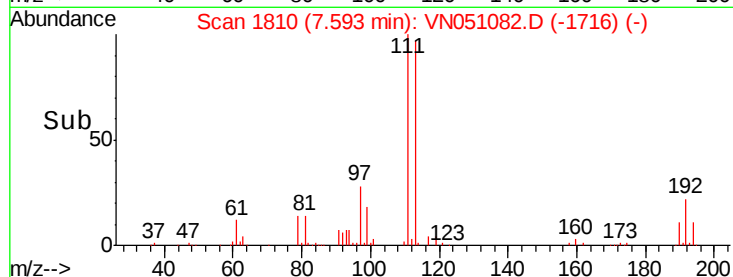
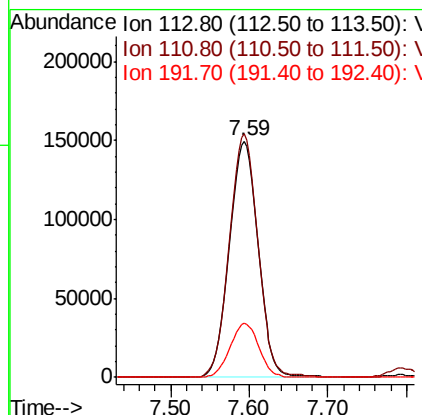
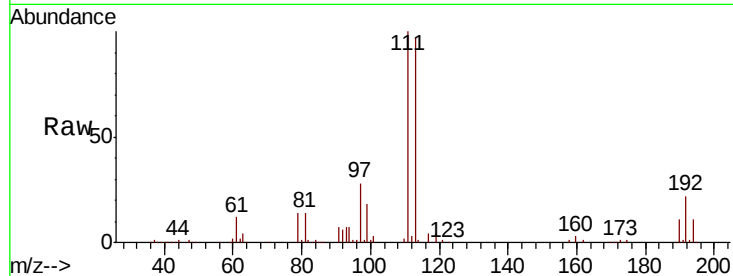
#35
Dibromofluoromethane
Concen: 51.68 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.1	83.0	124.6	
192	22.9	18.7	28.1	

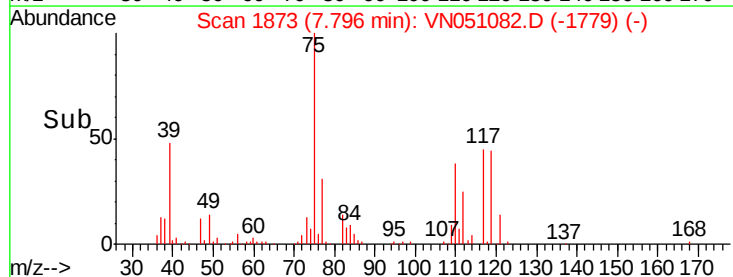
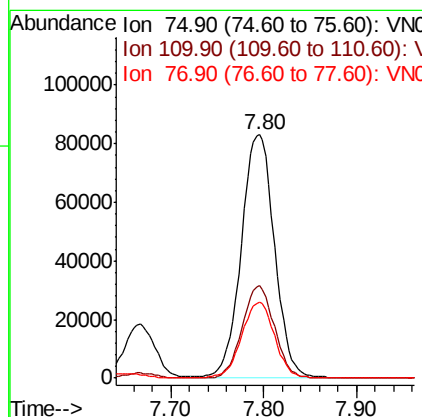
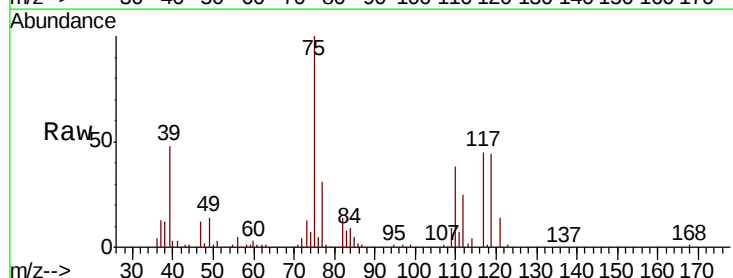
Manual Integrations
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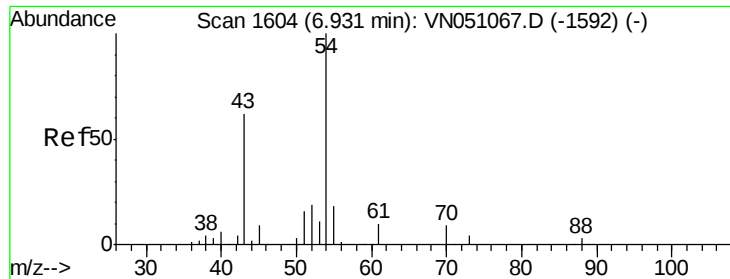
MMDadoda
9/11/2018 9:40:59 AM



#36
1,1-Dichloropropene
Concen: 19.12 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.0	18.6	55.8	
77	31.1	25.2	37.8	





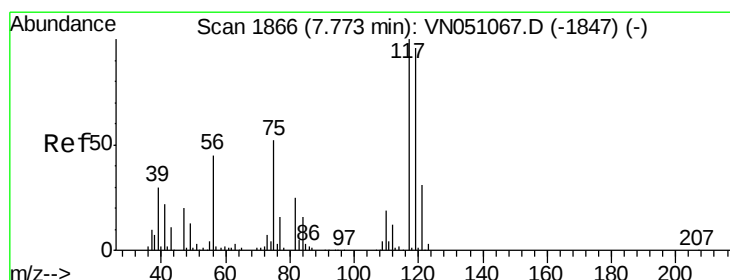
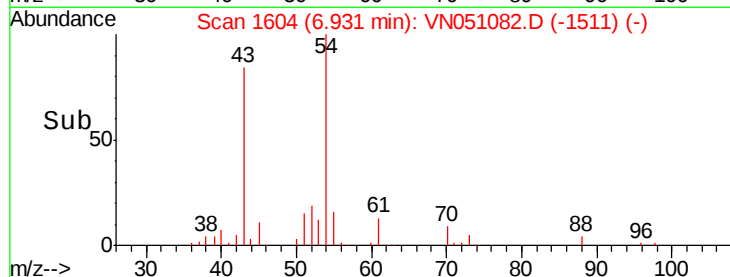
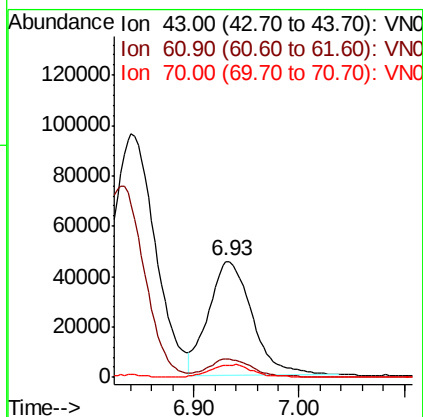
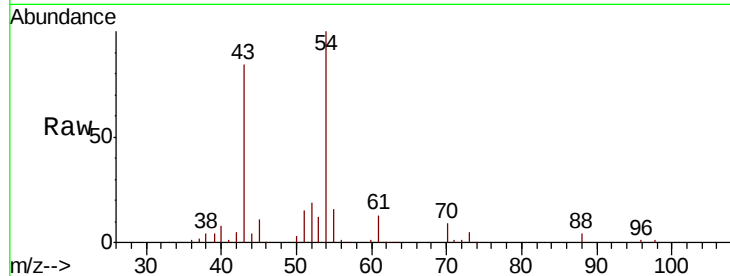
#37
Ethyl Acetate
Concen: 20.89 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.9	12.4	18.6
70	11.1	9.3	13.9

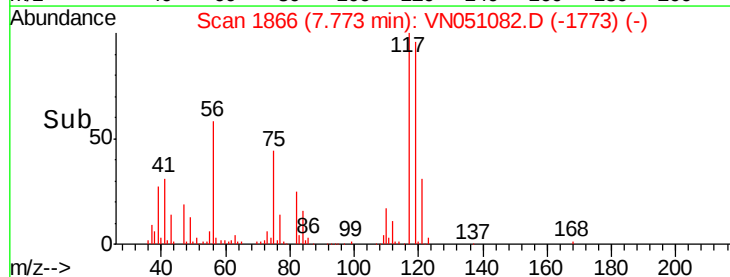
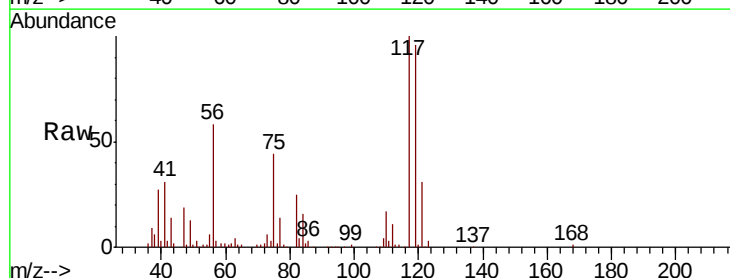
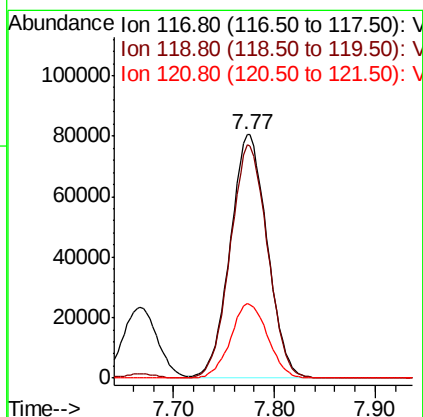
Manual Integrations
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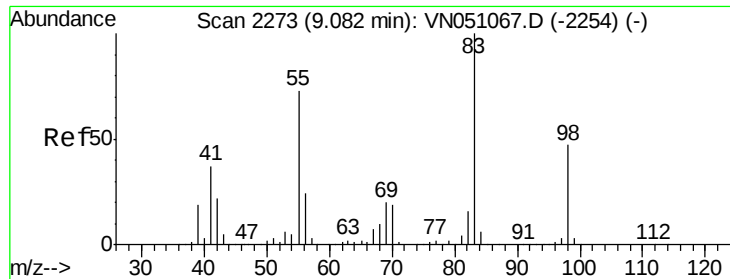
MMDadoda
9/11/2018 9:40:59 AM



#38
Carbon Tetrachloride
Concen: 19.43 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.8	115.2
121	30.5	24.6	36.8





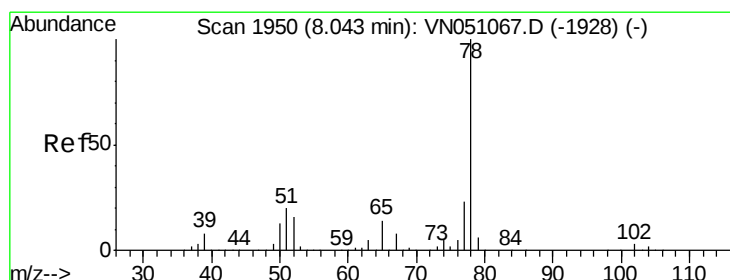
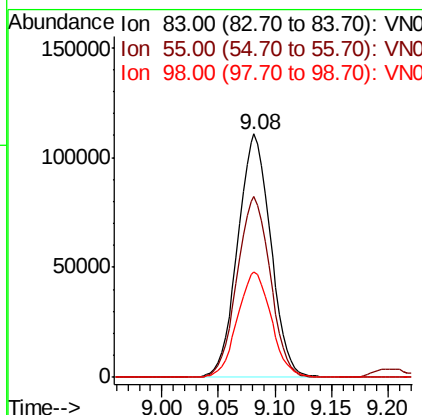
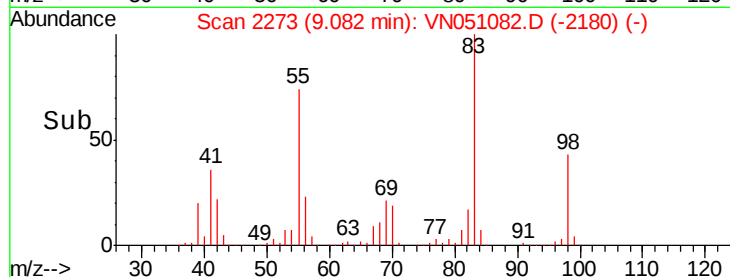
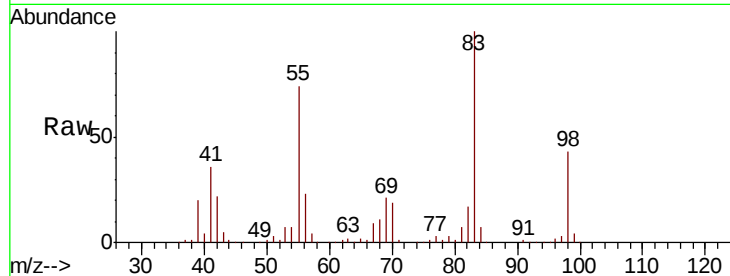
#39
Methvlcvclohexane
Concen: 19.00 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	22582		
55	74.1		58.4	87.6
98	43.4		37.3	55.9

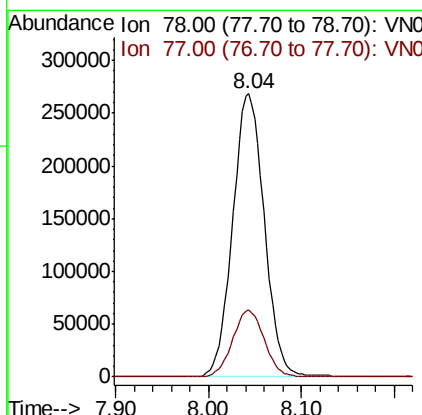
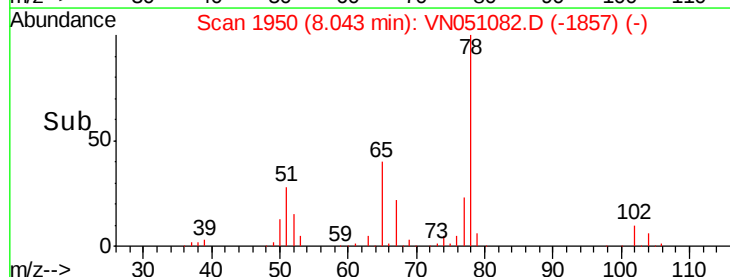
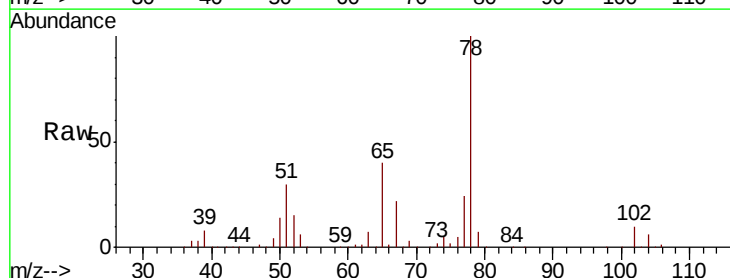
Manual Integrations
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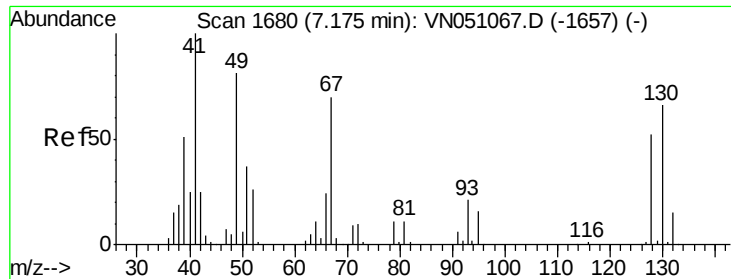
MMDadoda
9/11/2018 9:40:59 AM



#40
Benzene
Concen: 19.63 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	636479		
77	23.5		18.6	27.8





#41

Methacrylonitrile

Concen: 21.90 ug/l m

RT: 7.18 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 41 Resp: 70400

Ion Ratio Lower Upper

41 100

39 0.0 51.3 76.9#

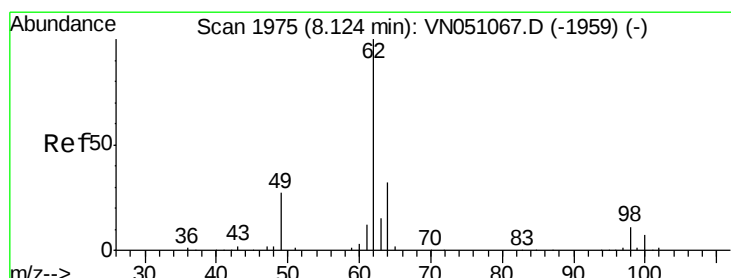
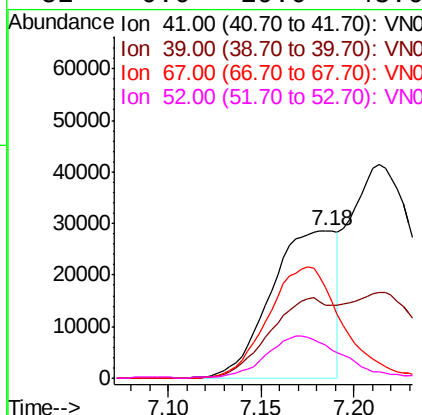
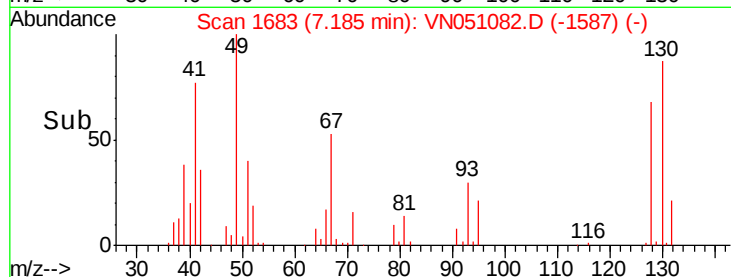
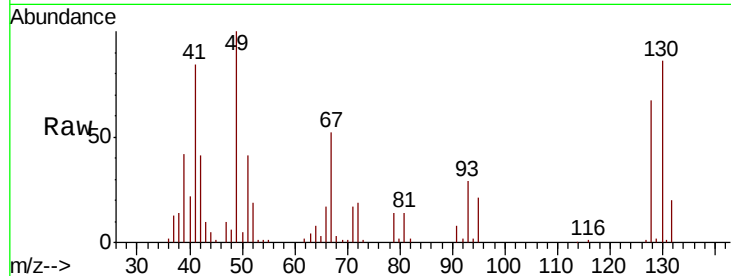
67 0.0 78.5 117.7#

52 0.0 29.0 43.6#

Manual Integrations
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MMDadoda

9/11/2018 9:40:59 AM



#42

1,2-Dichloroethane

Concen: 19.76 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN051082.D

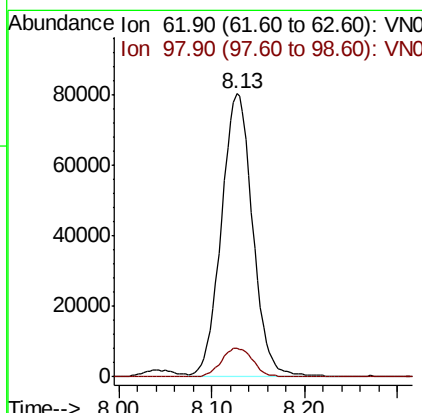
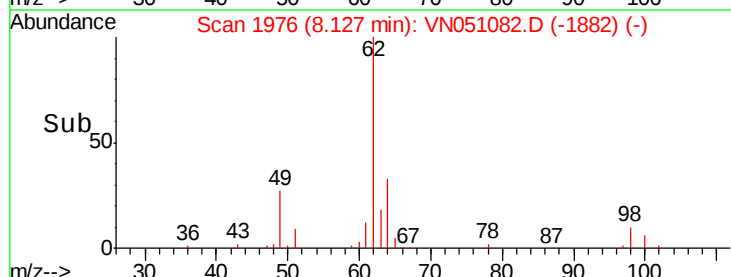
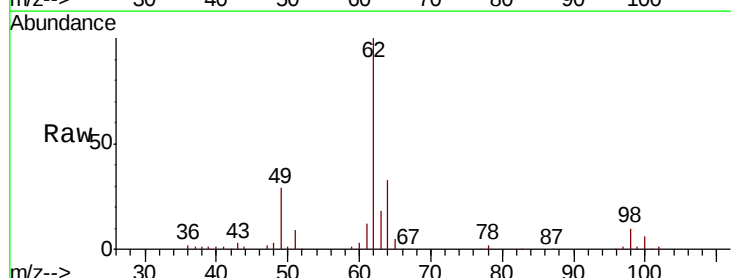
Acq: 10 Sep 2018 16:59

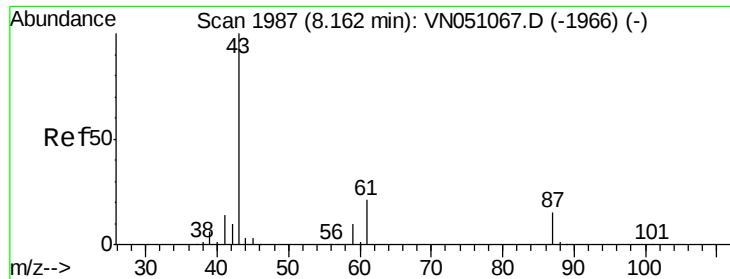
Tgt Ion: 62 Resp: 186689

Ion Ratio Lower Upper

62 100

98 10.3 0.0 21.0





#43

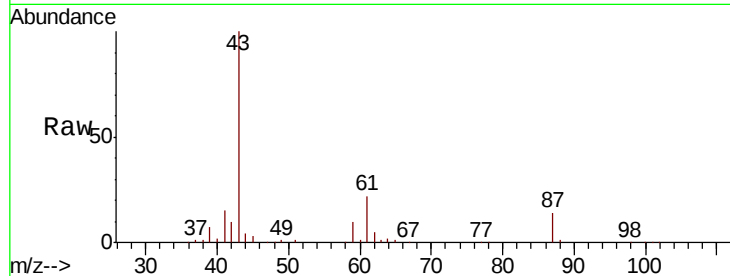
Isopropyl Acetate
 Concen: 20.09 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0910MBSD01

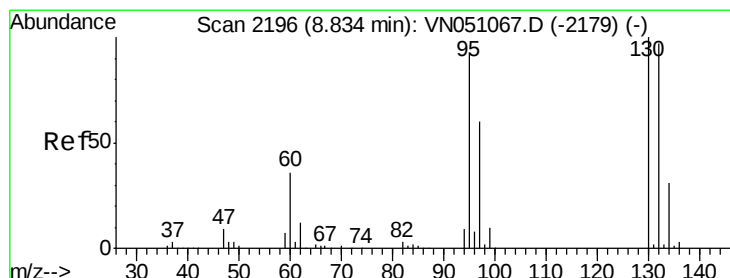
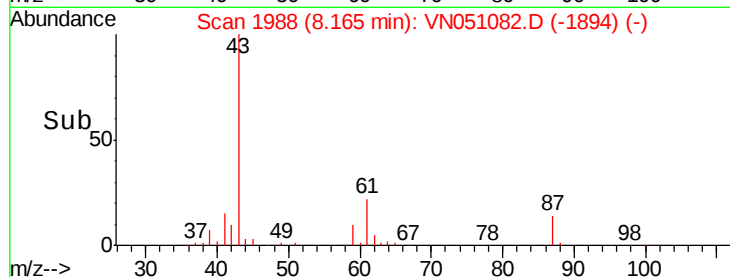
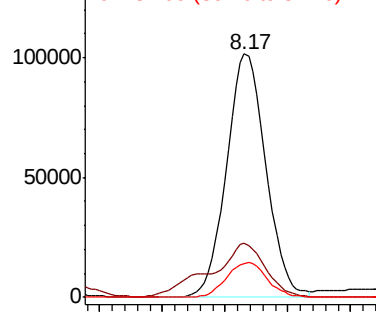
Tot Ion	Ratio	Lower	Upper
43	100		
61	30.8	25.0	37.6
87	14.9	11.8	17.8

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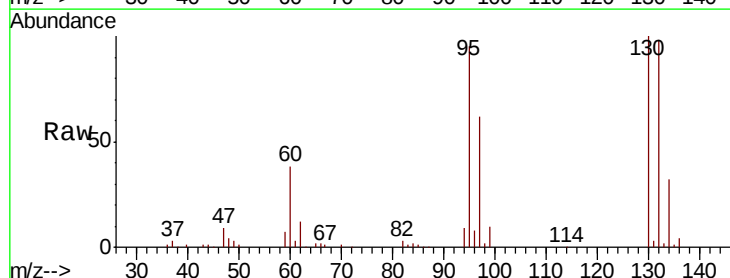
Abundance Ion 43.00 (42.70 to 43.70): VN051067.D (-1966) (-)



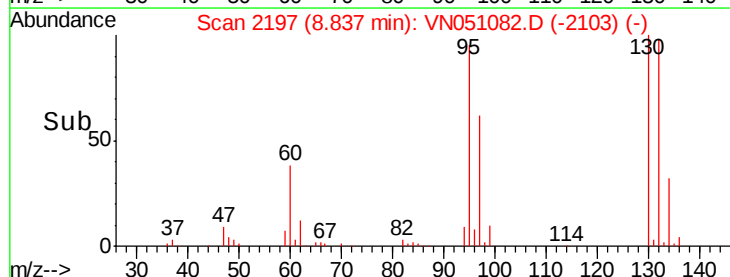
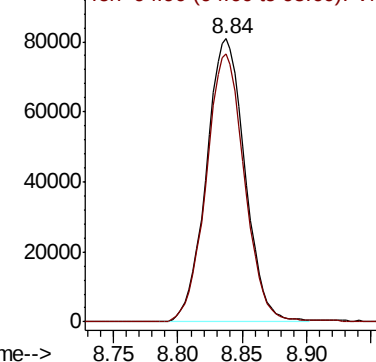
#44

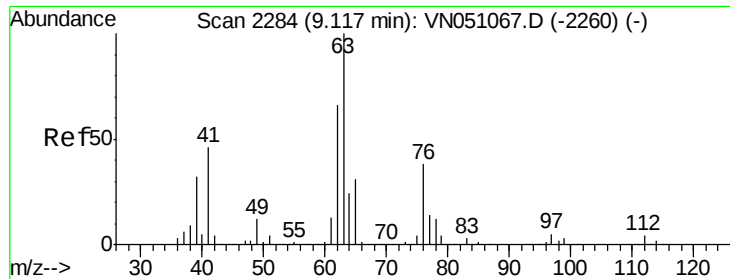
Trichloroethene
 Concen: 18.92 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	186.2



Abundance Ion 129.80 (129.50 to 130.50): VN051067.D (-2179) (-)





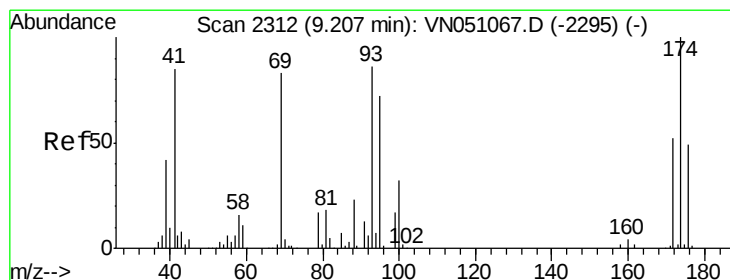
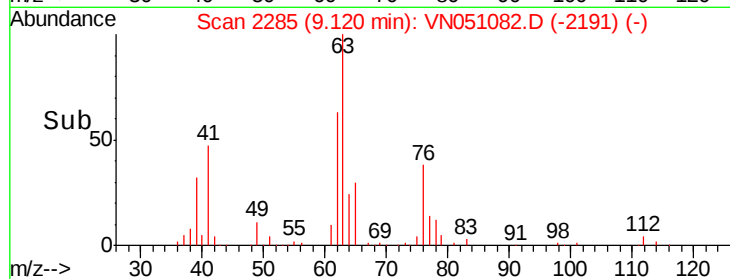
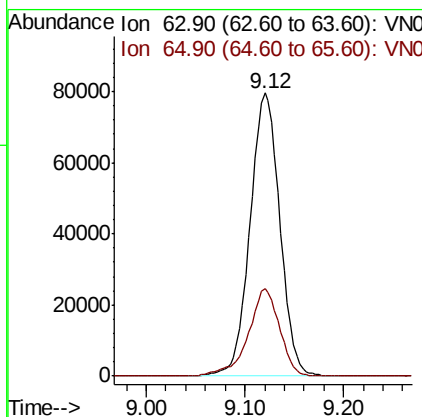
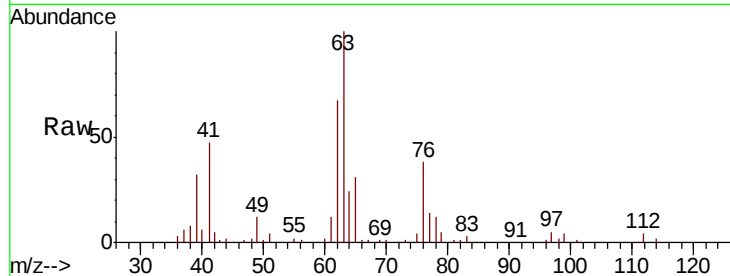
#45
 1,2-Dichloropropane
 Concen: 19.78 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910MBSD01

Tot Ion: 63 Resp: 165717
 Ion Ratio Lower Upper
 63 100
 65 30.9 24.7 37.1

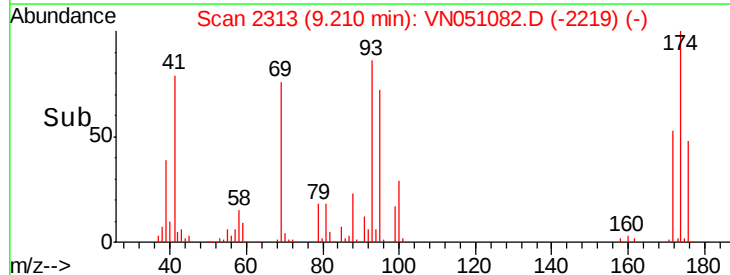
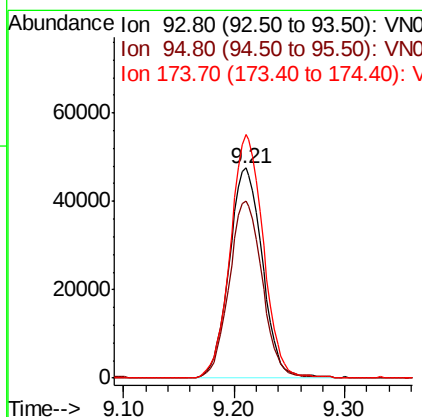
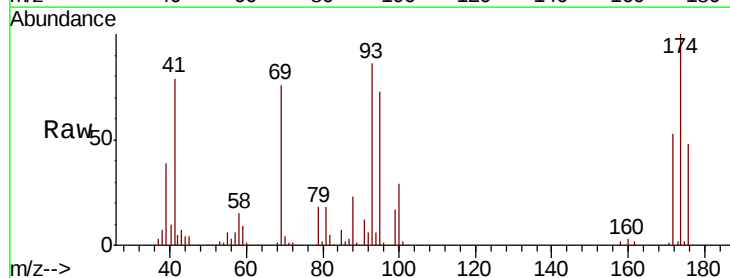
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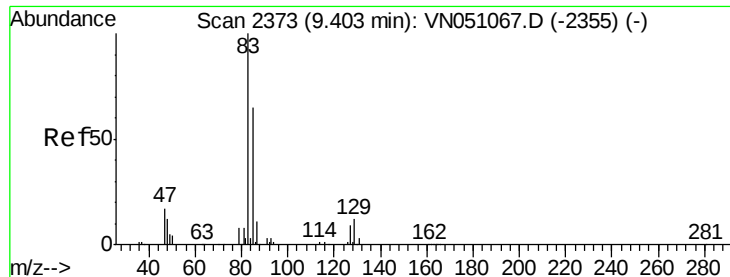
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#46
 Dibromomethane
 Concen: 19.49 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Tgt Ion: 93 Resp: 99636
 Ion Ratio Lower Upper
 93 100
 95 83.7 66.8 100.2
 174 114.9 93.3 139.9





#47

Bromodichloromethane

Concen: 19.68 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

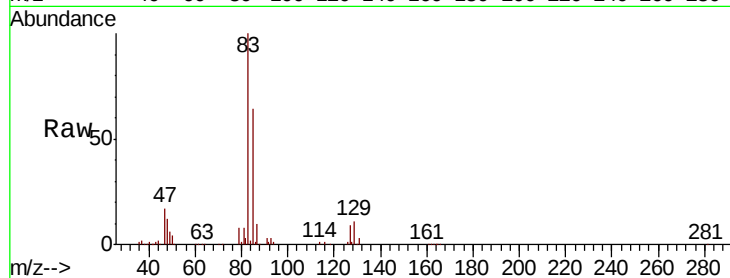
ClientSampleId :

VN0910MBSD01

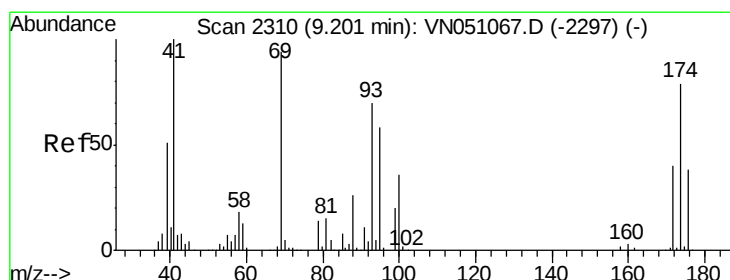
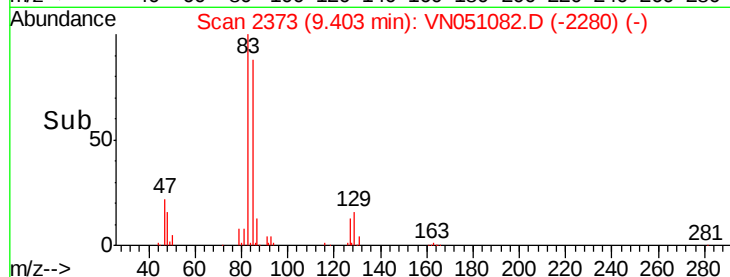
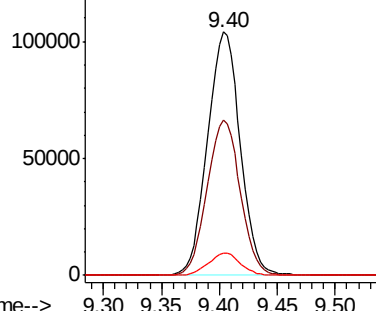
Tot Ion:	83	Resp:	204542
Ion Ratio	Lower	Upper	
83	100		
85	63.6	52.3	78.5
127	9.1	7.5	11.3

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Abundance Ion 82.90 (82.60 to 83.60): VN051082.D (-2280) (-)



#48

Methyl methacrylate

Concen: 19.82 ug/l

RT: 9.20 min Scan# 2310

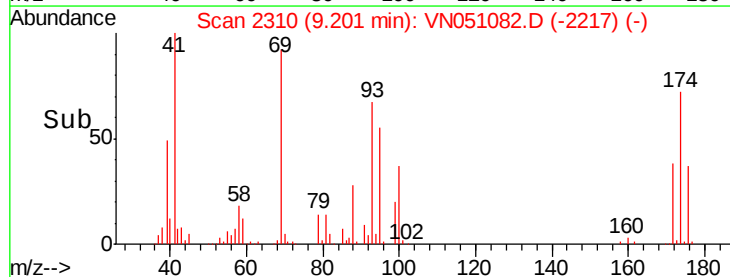
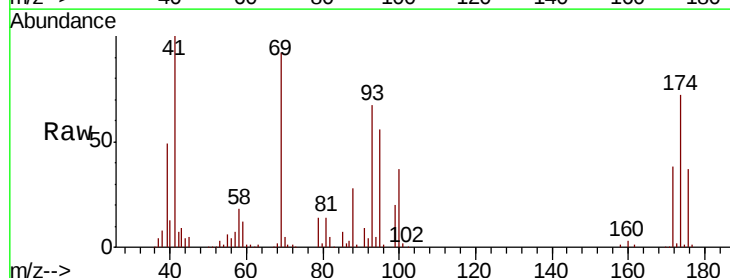
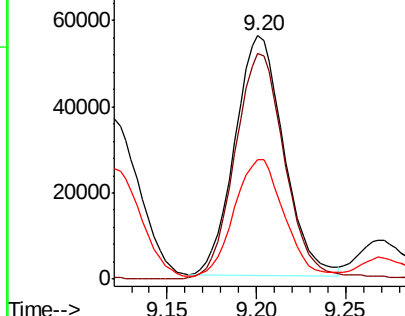
Delta R.T. -0.00 min

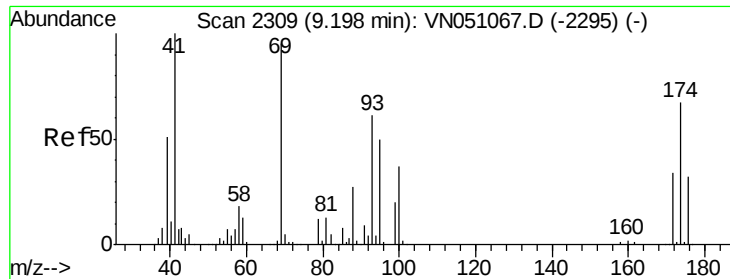
Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Tgt Ion:	41	Resp:	106188
Ion Ratio	Lower	Upper	
41	100		
69	96.8	77.7	116.5
39	51.6	41.6	62.4

Abundance Ion 41.00 (40.70 to 41.70): VN051082.D (-2217) (-)





#49

1,4-Dioxane

Concen: 386.98 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

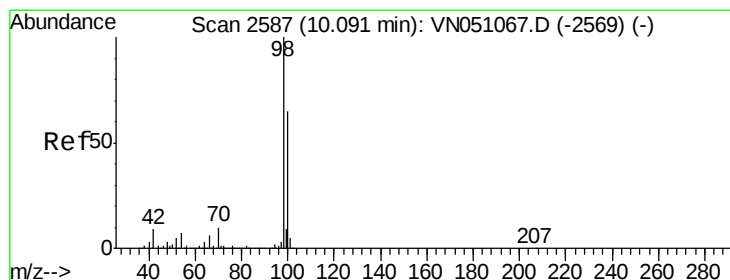
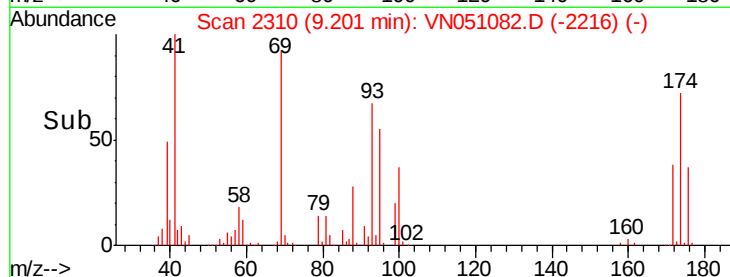
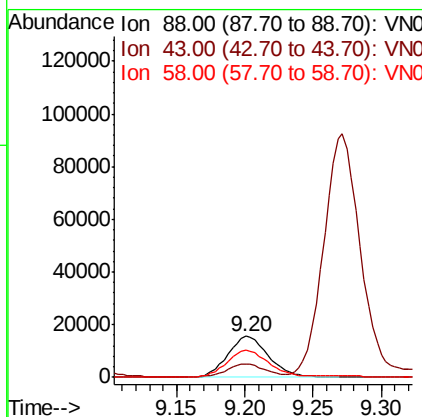
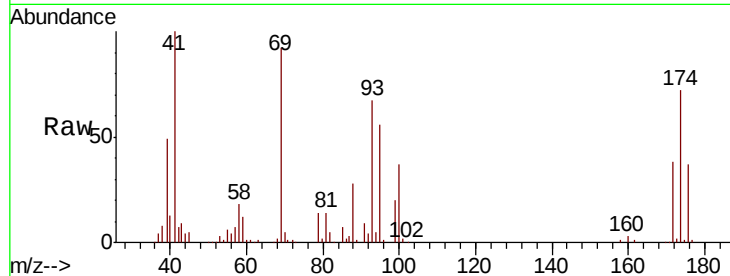
ClientSampleId :

VN0910MBSD01

Tot Ion:	88	Resp:	32512
Ion	Ratio	Lower	Upper
88	100		
43	28.1	23.7	35.5
58	68.0	54.6	82.0

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#50

Toluene-d8

Concen: 51.47 ug/l

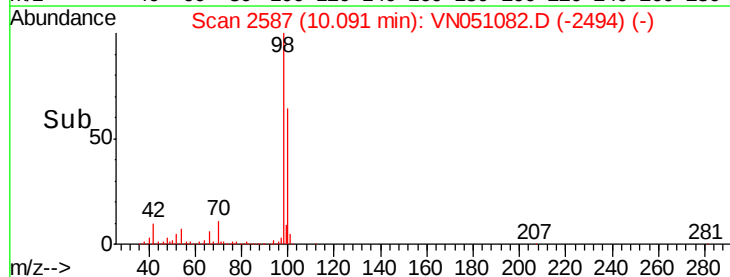
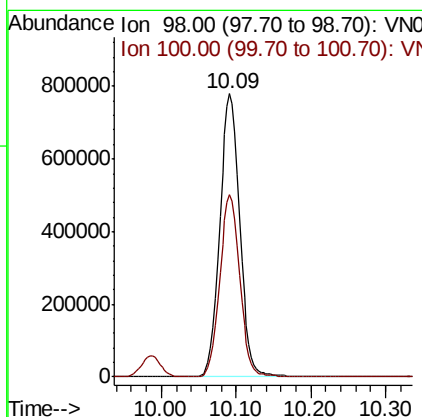
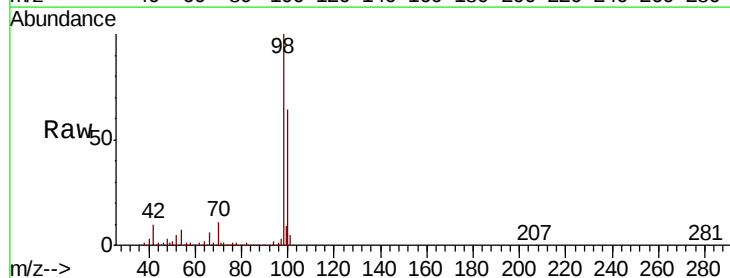
RT: 10.09 min Scan# 2587

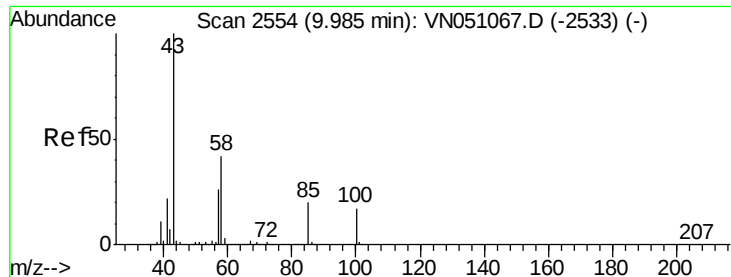
Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Tgt Ion:	98	Resp:	1437960
Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.0	78.0





#51

4-Methyl-2-Pentanone

Concen: 104.02 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 43 Resp: 632430

Ion Ratio Lower Upper

43 100

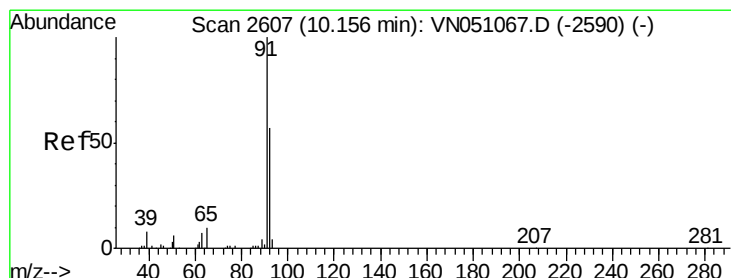
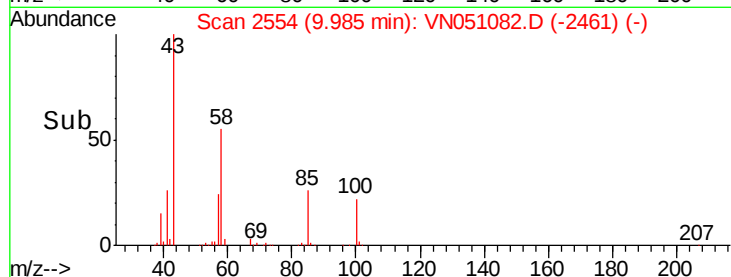
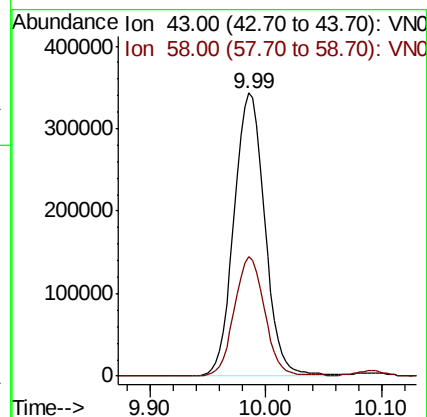
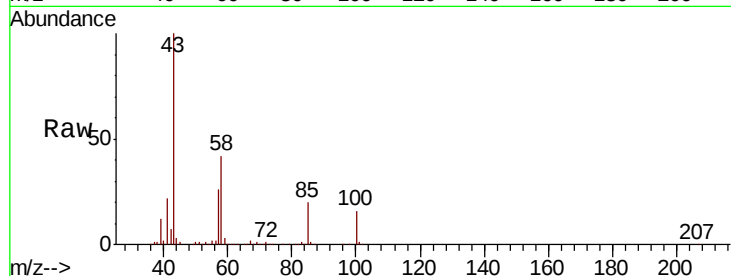
58 41.7 33.5 50.3

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#52

Toluene

Concen: 19.94 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051082.D

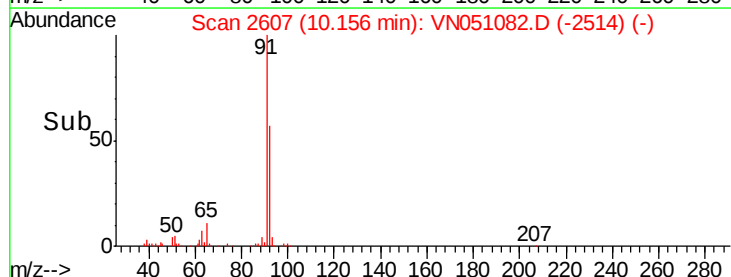
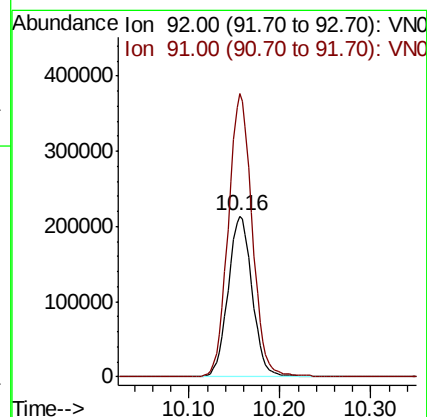
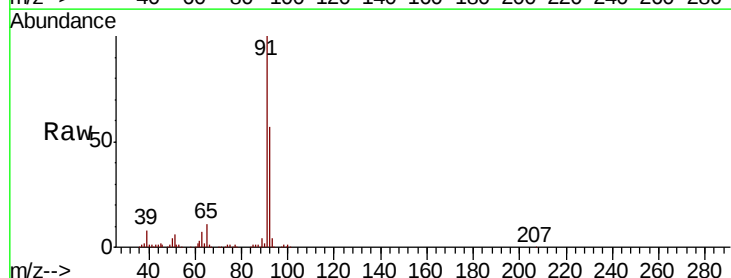
Acq: 10 Sep 2018 16:59

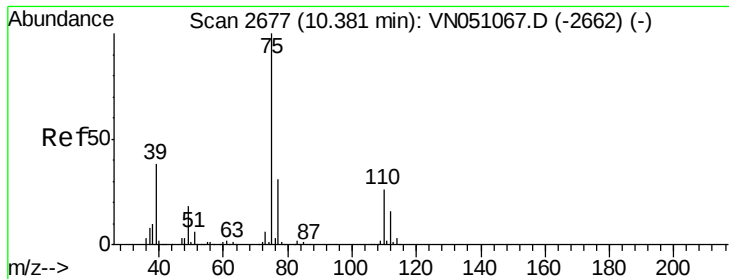
Tgt Ion: 92 Resp: 394212

Ion Ratio Lower Upper

92 100

91 174.4 139.5 209.3





#53

t-1,3-Dichloropropene

Concen: 19.03 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 75 Resp: 197947

Ion Ratio Lower Upper

75 100

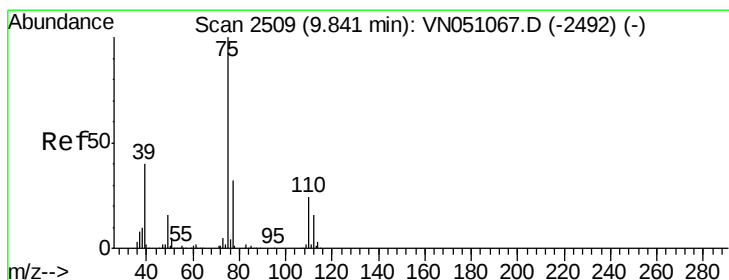
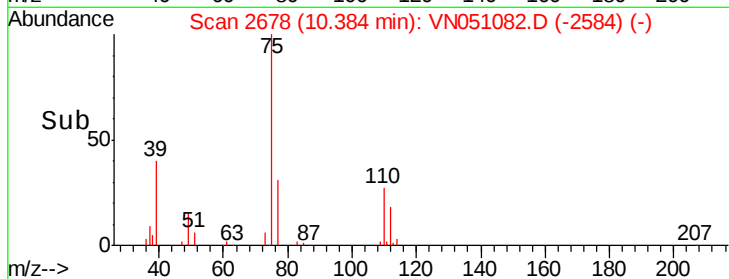
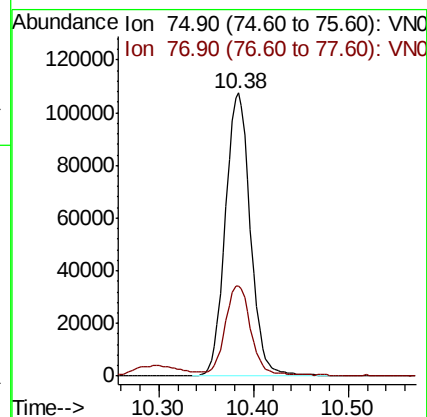
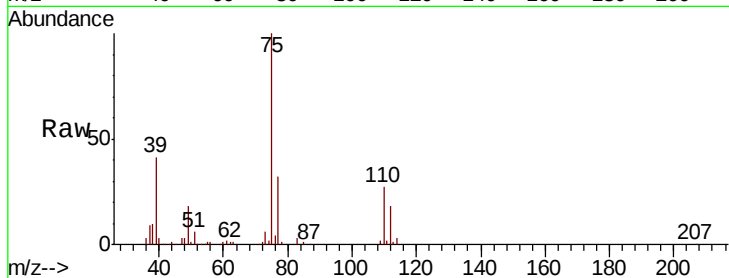
77 31.7 25.3 37.9

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#54

cis-1,3-Dichloropropene

Concen: 19.33 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

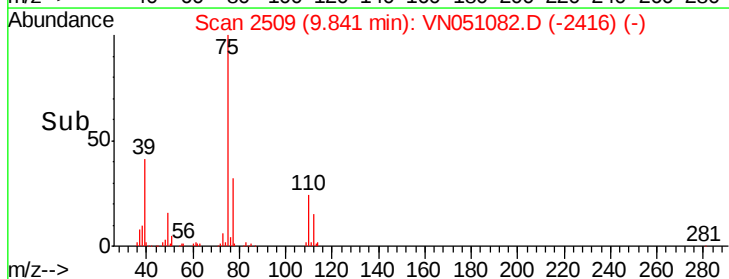
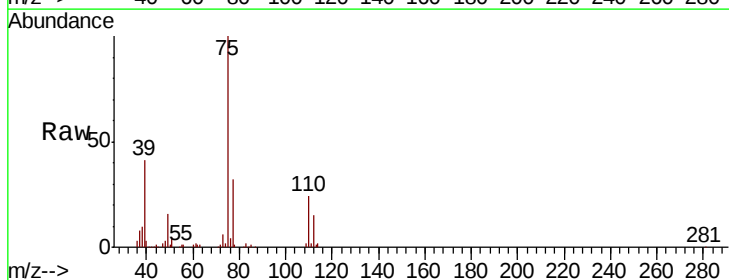
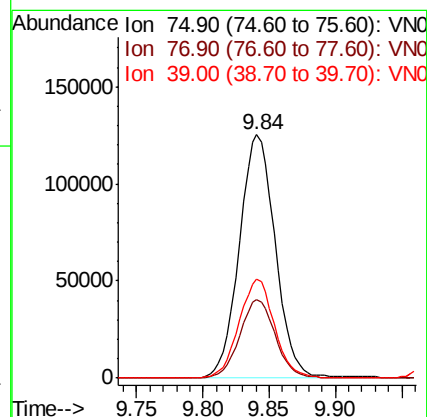
Tgt Ion: 75 Resp: 235763

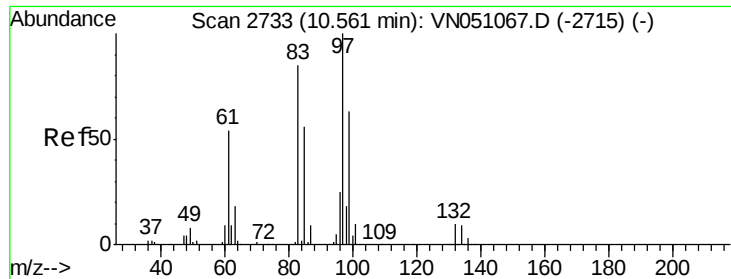
Ion Ratio Lower Upper

75 100

77 32.3 25.7 38.5

39 40.8 31.9 47.9





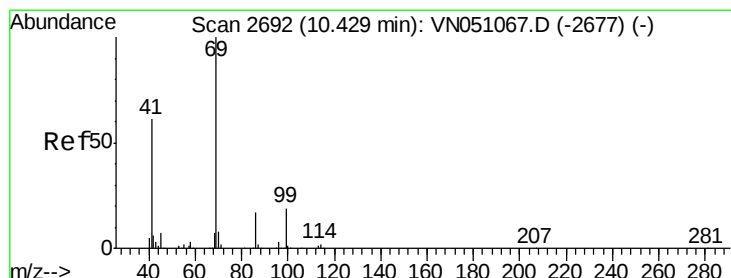
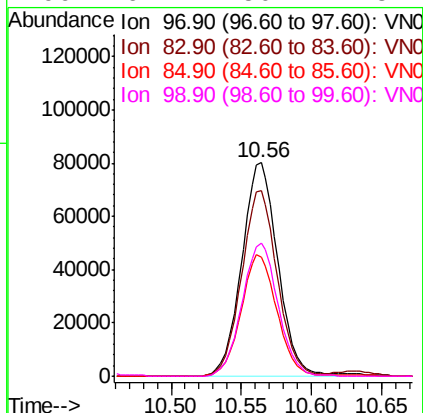
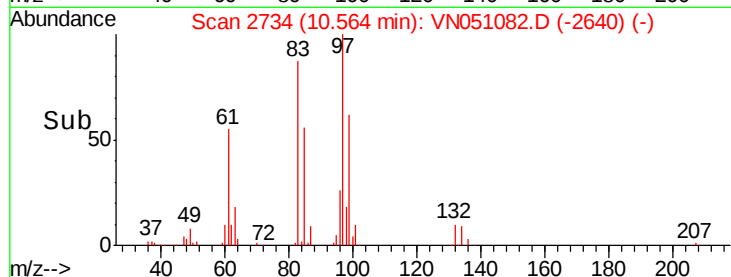
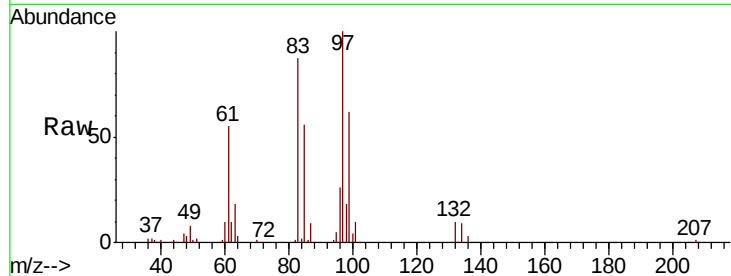
#55
 1,1,2-Trichloroethane
 Concen: 19.99 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910MBSD01

Tot Ion:	97	Resp:	143529
Ion	Ratio	Lower	Upper
97	100		
83	86.8	68.2	102.2
85	56.0	44.8	67.2
99	62.2	50.2	75.4

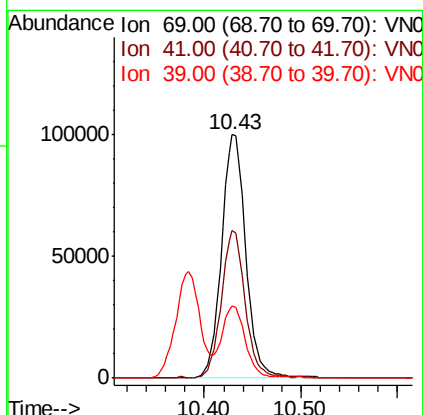
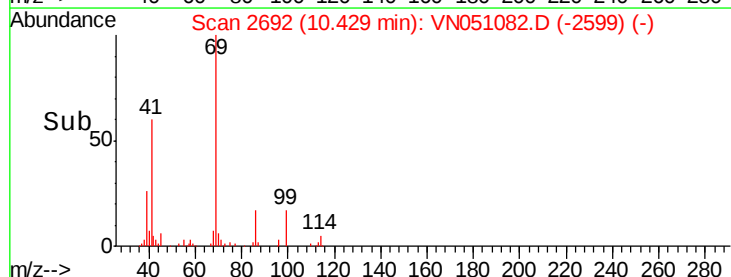
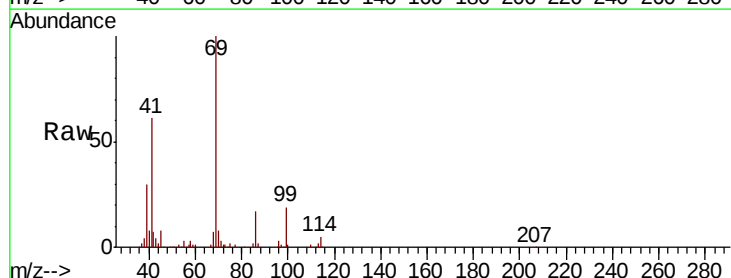
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#56
 Ethyl methacrylate
 Concen: 19.62 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Tgt Ion:	69	Resp:	173993
Ion	Ratio	Lower	Upper
69	100		
41	59.0	47.8	71.8
39	28.0	23.0	34.4





#57

1,3-Dichloropropane

Concen: 19.86 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 76 Resp: 236419

Ion Ratio Lower Upper

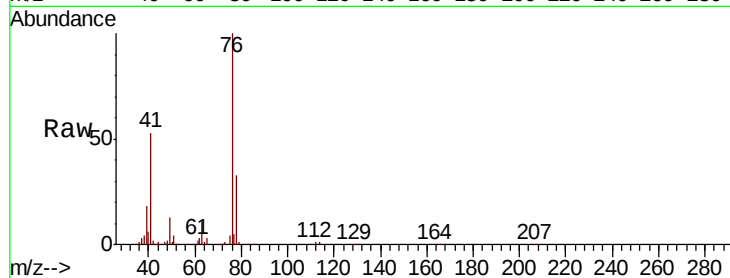
76 100

78 32.2 26.1 39.1

Manual Integrations
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Abundance Ion 75.90 (75.60 to 76.60): VN051067.D (-2763) (-)

Ion 77.90 (77.60 to 78.60): VN051067.D (-2763) (-)

10.71

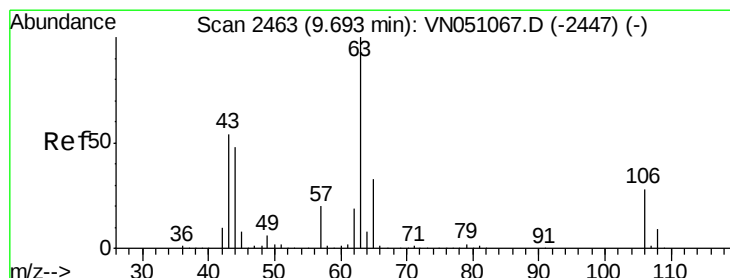
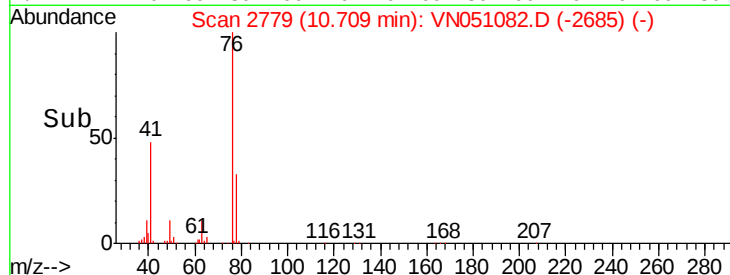
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 96.76 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051082.D

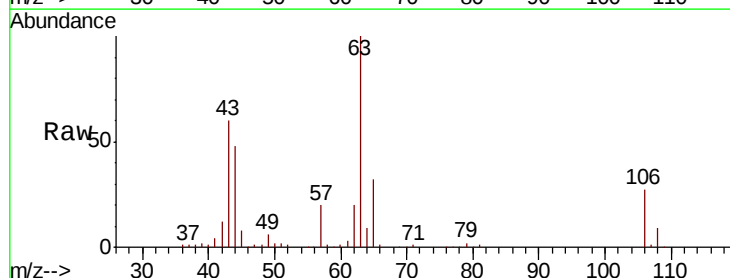
Acq: 10 Sep 2018 16:59

Tgt Ion: 63 Resp: 351711

Ion Ratio Lower Upper

63 100

106 27.9 22.5 33.7



Abundance Ion 62.90 (62.60 to 63.60): VN051067.D (-2447) (-)

Ion 105.90 (105.60 to 106.60): VN051067.D (-2447) (-)

9.70

200000

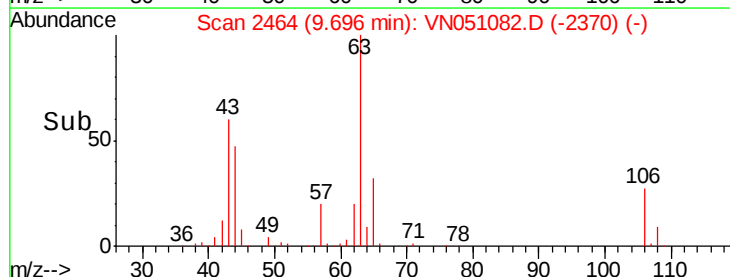
150000

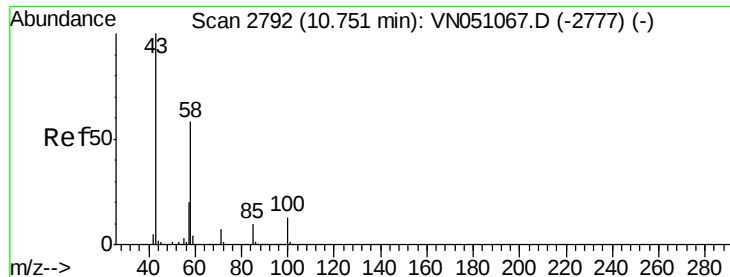
100000

50000

0

Time-->





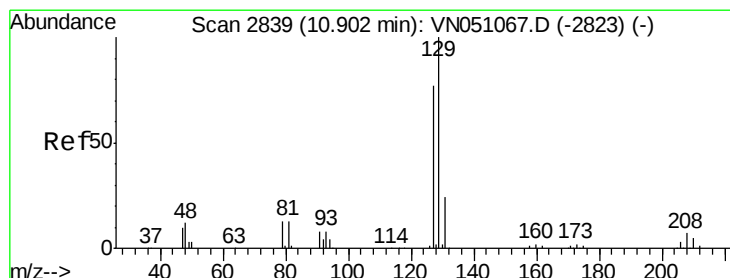
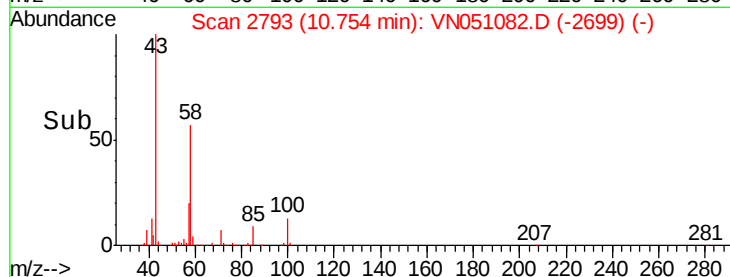
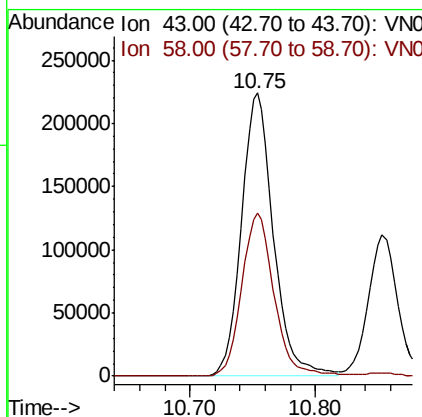
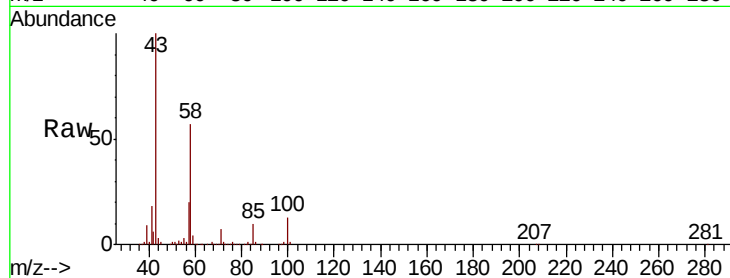
#59
2-Hexanone
Concen: 95.88 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.6	29.3	88.0

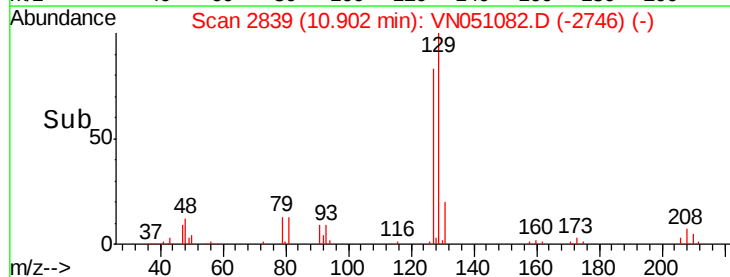
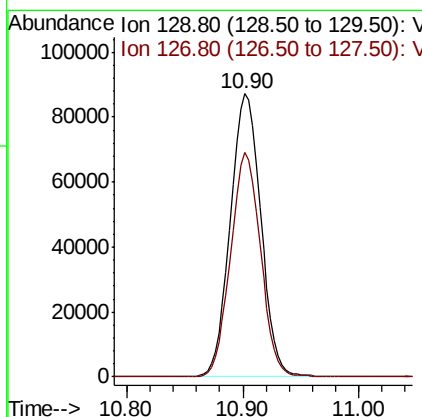
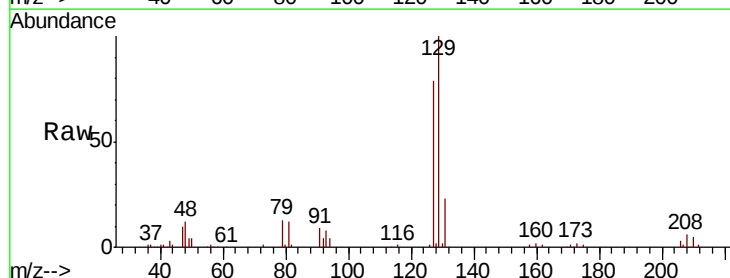
Manual Integrations
APPROVED

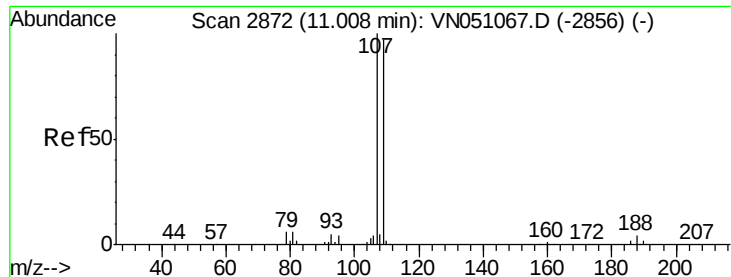
MMDadoda
9/11/2018 9:40:59 AM



#60
Dibromochloromethane
Concen: 19.66 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.5	115.5





#61

1,2-Dibromoethane

Concen: 19.59 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 107 Resp: 137533

Ion Ratio Lower Upper

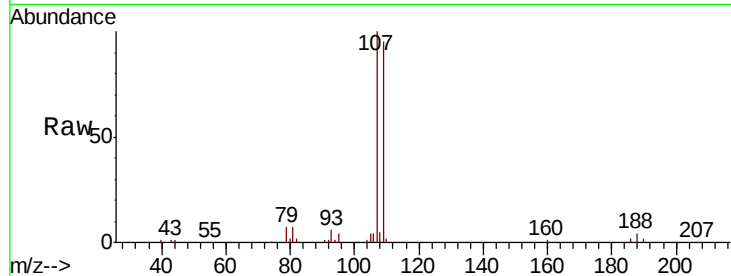
107 100

109 95.4 76.0 114.0

Manual Integrations
APPROVED

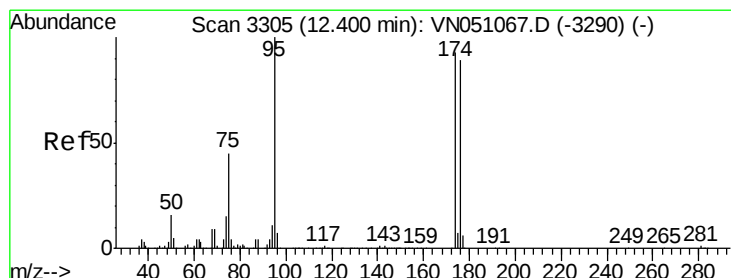
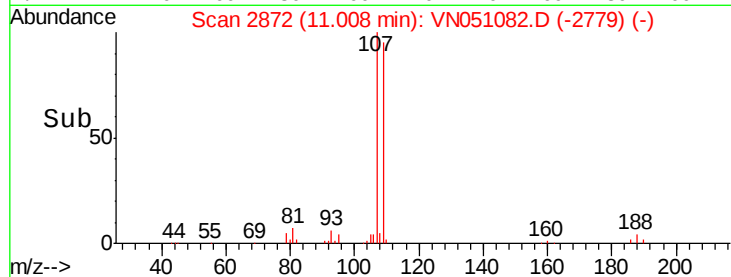
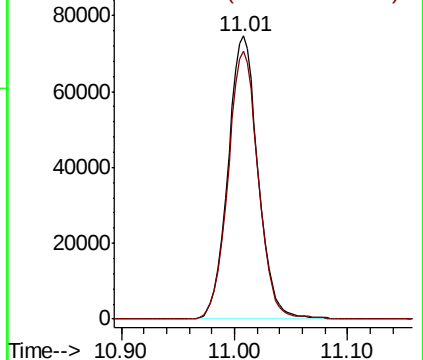
MMDadoda

9/11/2018 9:40:59 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 48.78 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

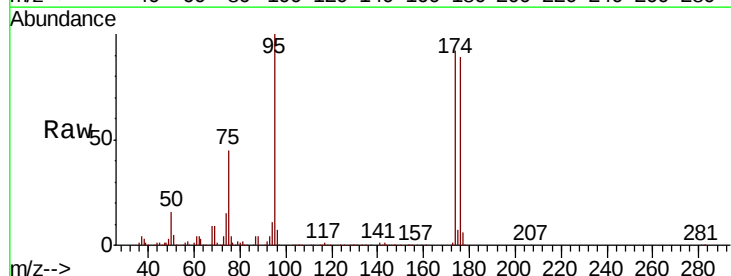
Tgt Ion: 95 Resp: 450850

Ion Ratio Lower Upper

95 100

174 91.9 0.0 184.8

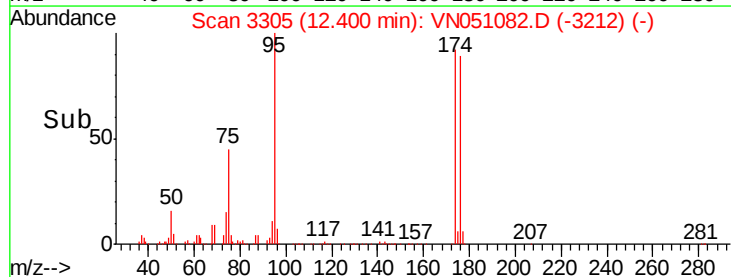
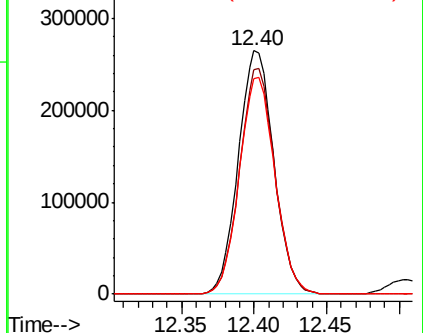
176 89.4 0.0 178.6

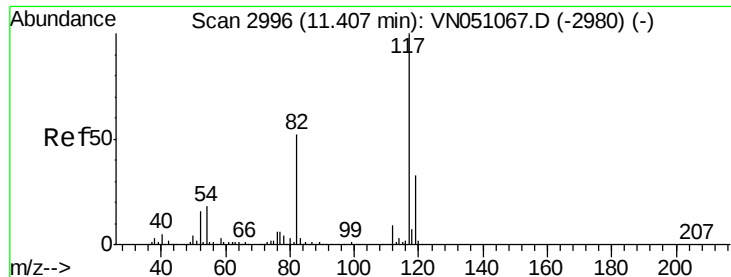


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





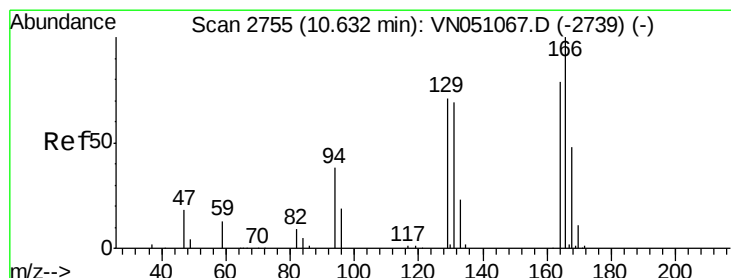
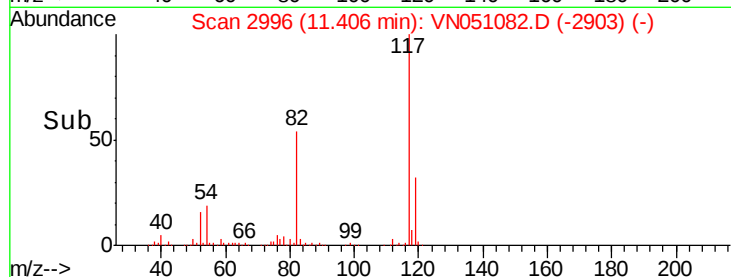
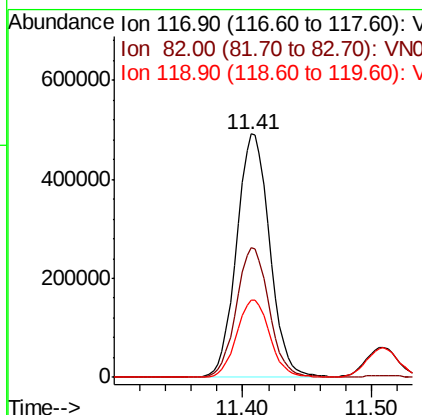
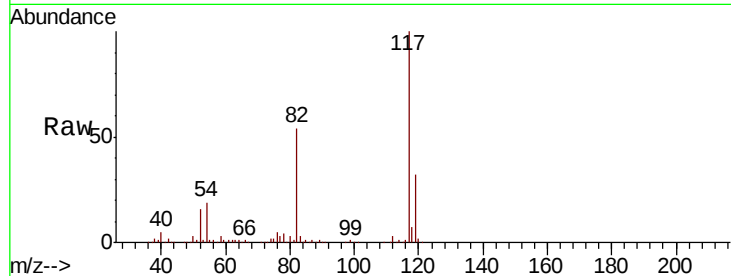
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	41.8	62.6
119	31.8	26.2	39.2

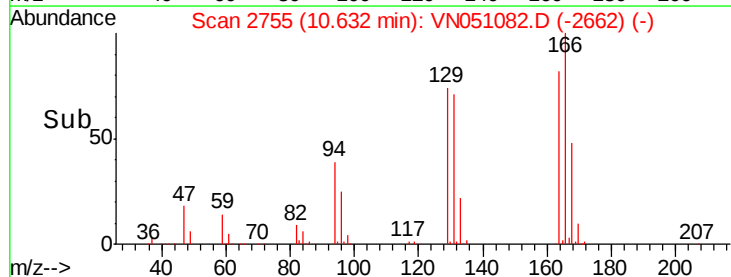
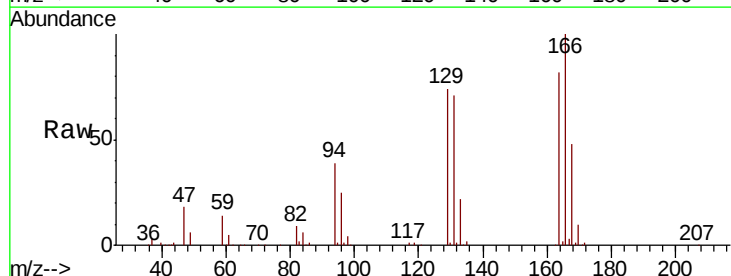
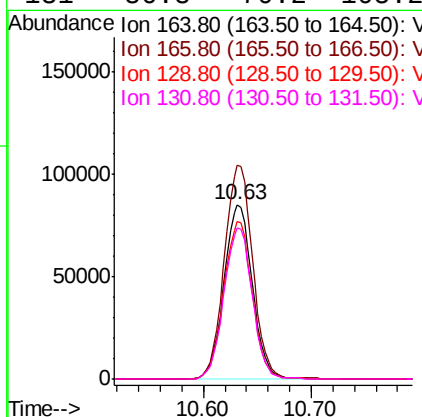
Manual Integrations
APPROVED

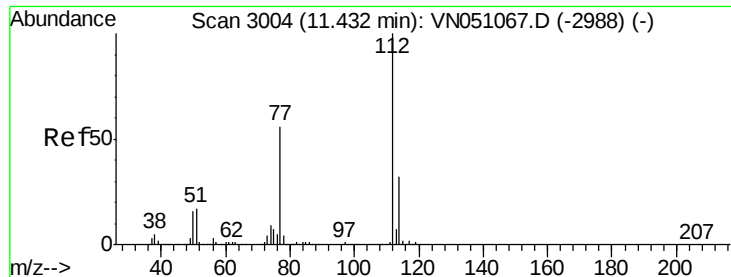
MMDadoda
9/11/2018 9:40:59 AM



#64
Tetrachloroethene
Concen: 19.43 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.4	101.3	151.9
129	90.0	72.2	108.2
131	86.8	70.2	105.2





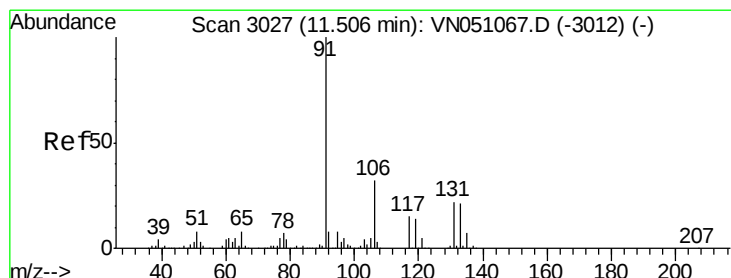
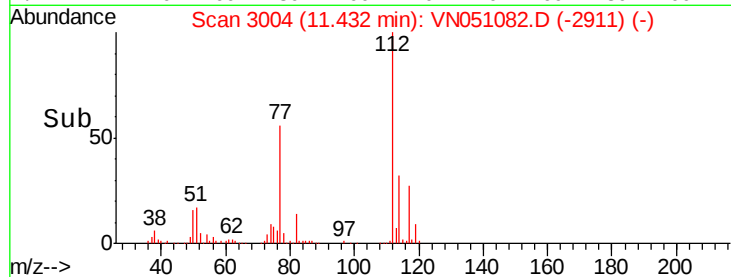
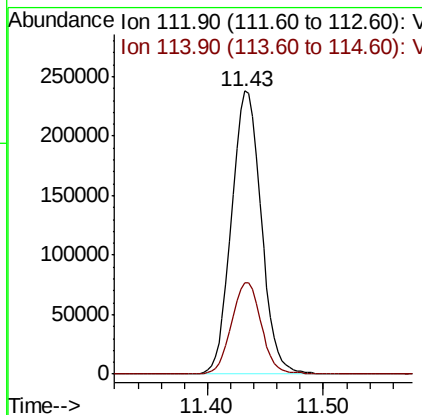
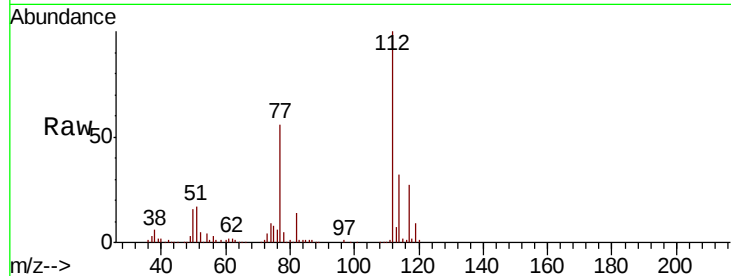
#65
Chlorobenzene
Concen: 19.00 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.8	38.6

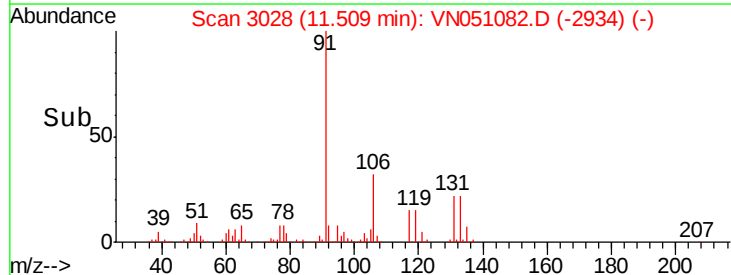
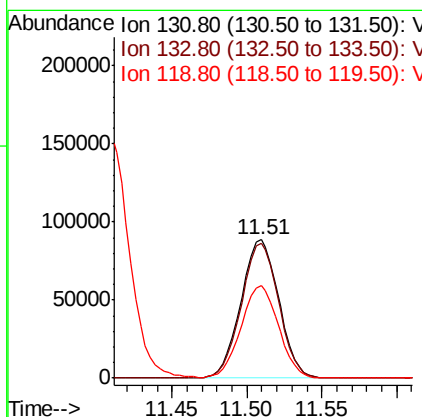
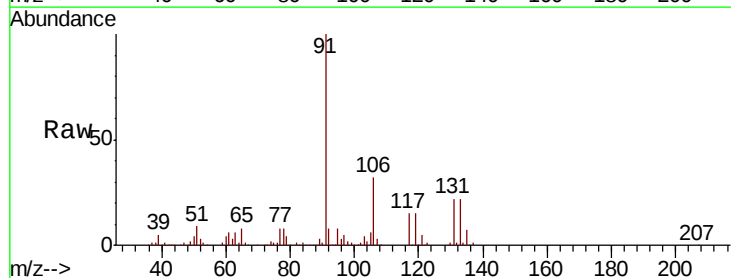
Manual Integrations
APPROVED

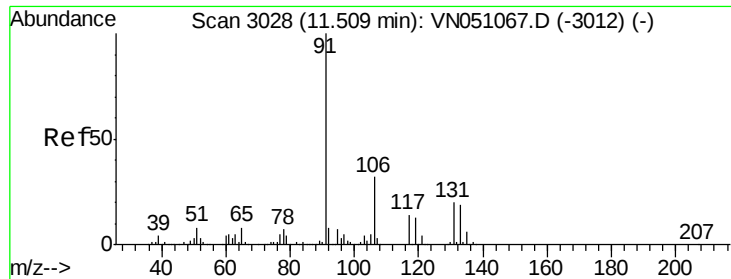
MMDadoda
9/11/2018 9:40:59 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.58 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.5	47.5	142.6
119	66.6	33.2	99.6





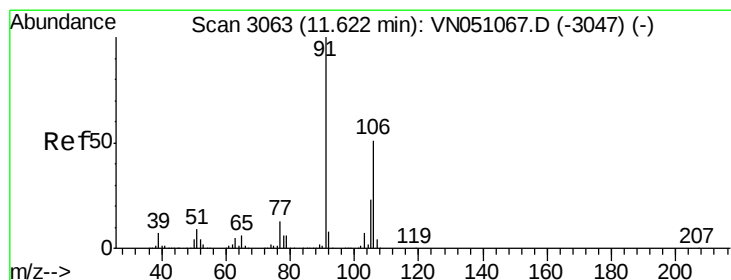
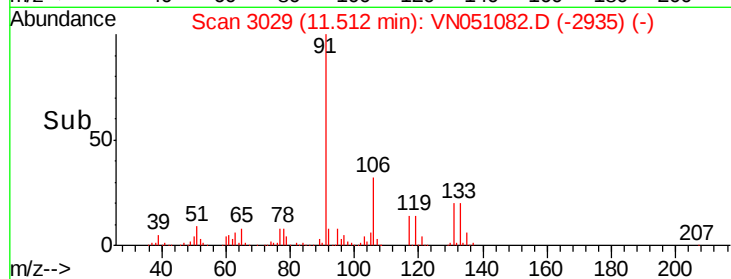
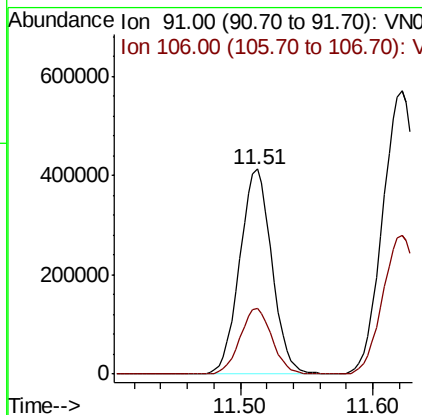
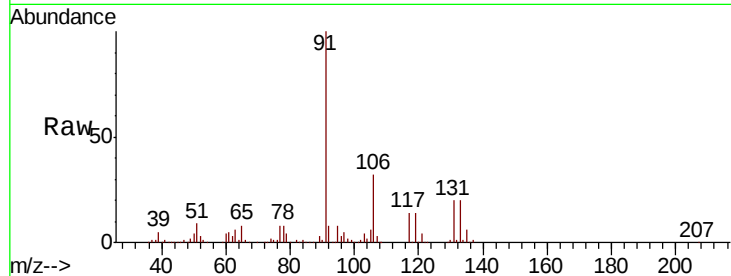
#67
Ethyl Benzene
Concen: 19.37 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.4	38.2

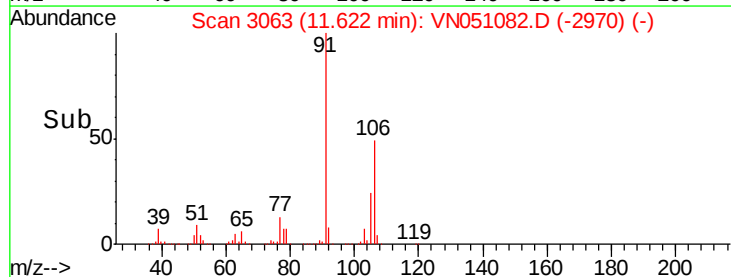
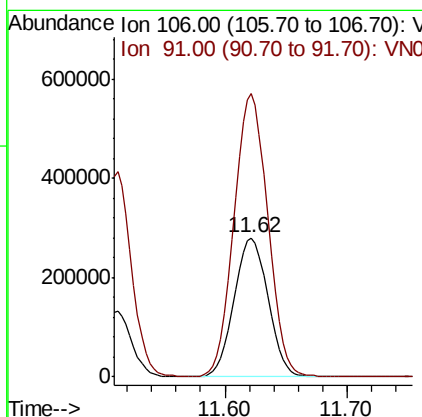
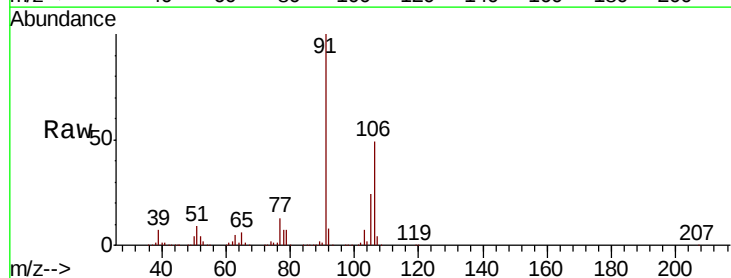
Manual Integrations
APPROVED

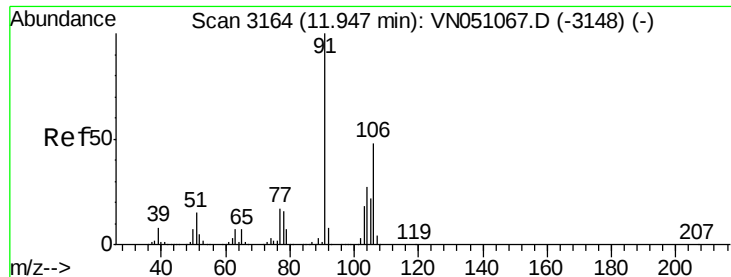
MMDadoda
9/11/2018 9:40:59 AM



#68
m/p-Xylenes
Concen: 39.32 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
106	100		
91	202.0	159.8	239.6





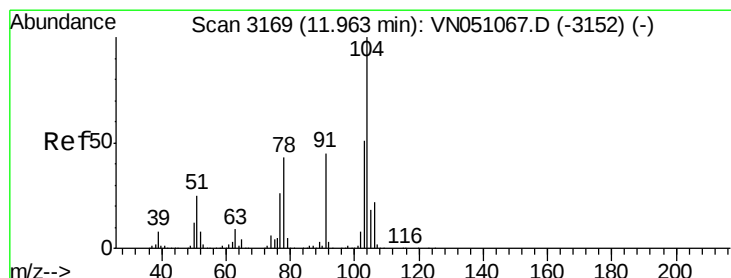
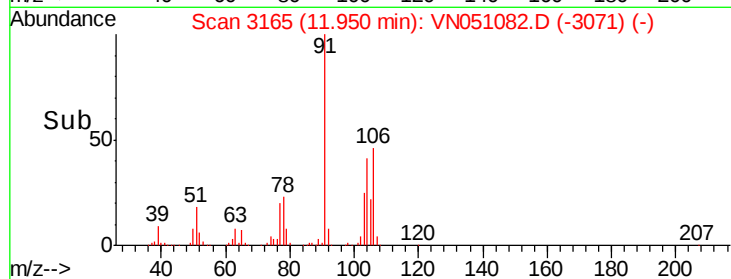
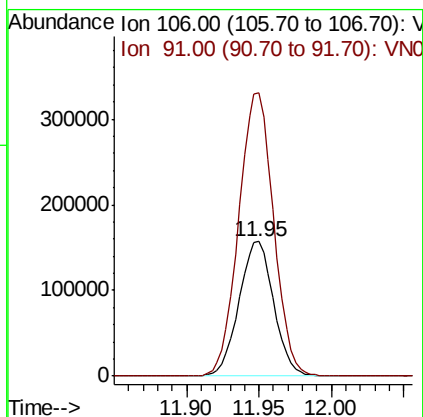
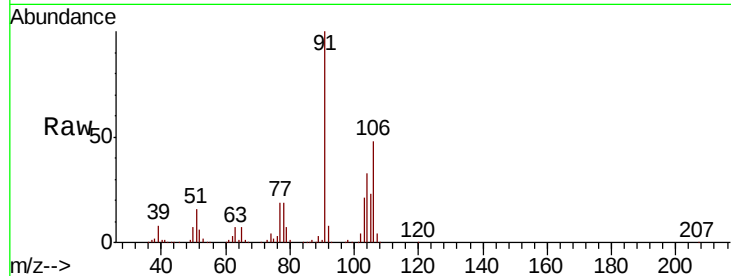
#69
o-Xylene
Concen: 19.58 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	212.3	105.1	315.1

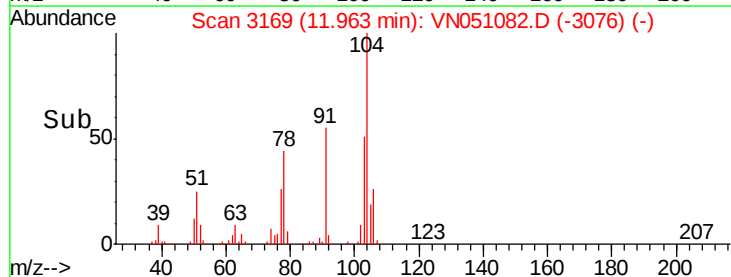
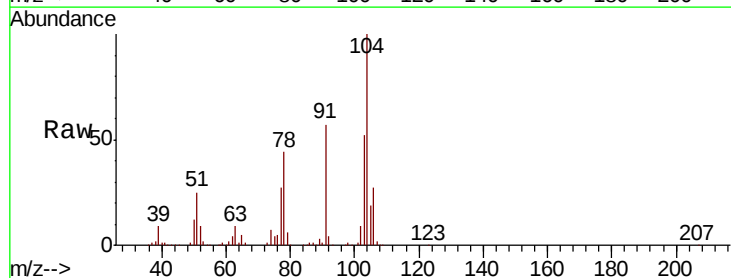
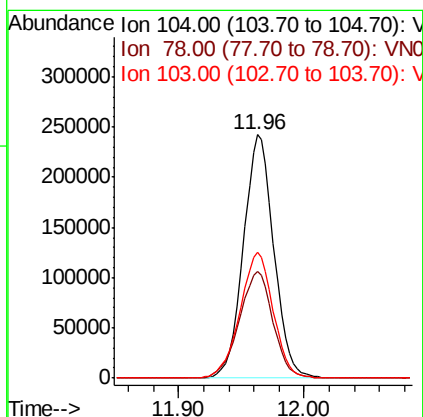
Manual Integrations
APPROVED

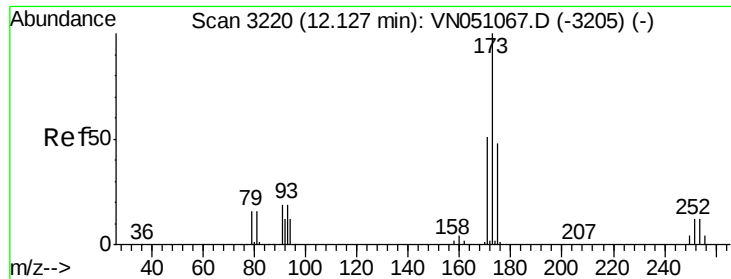
MMDadoda
9/11/2018 9:40:59 AM



#70
Styrene
Concen: 19.71 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.5	37.7	56.5
103	56.5	44.6	67.0





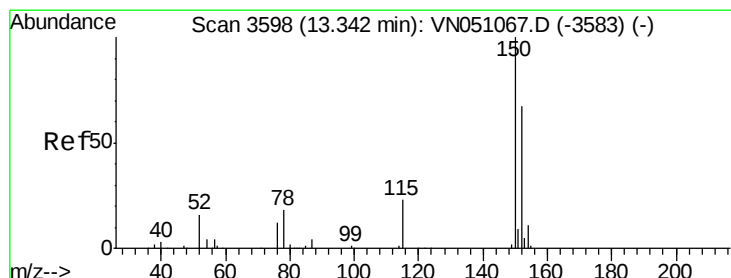
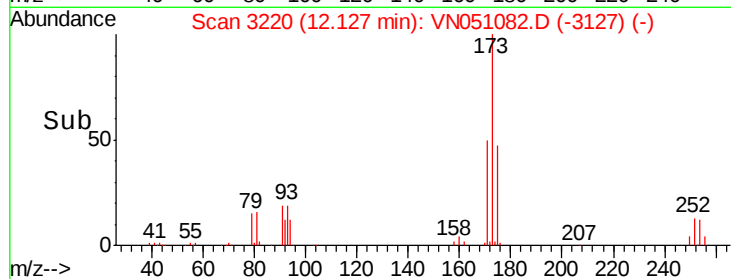
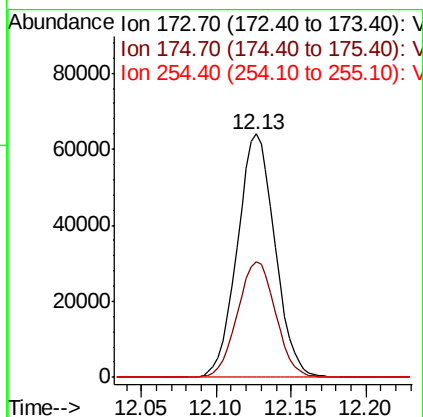
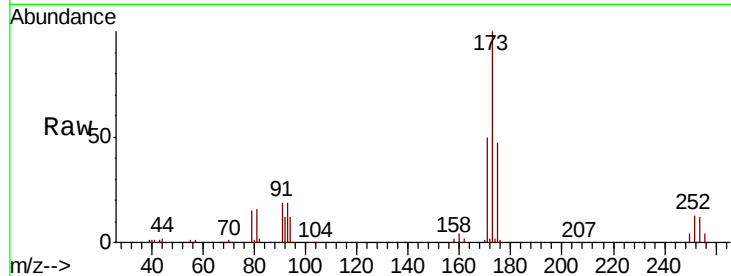
#71
Bromoform
Concen: 19.91 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	72.9
254	0.0	0.0	0.0

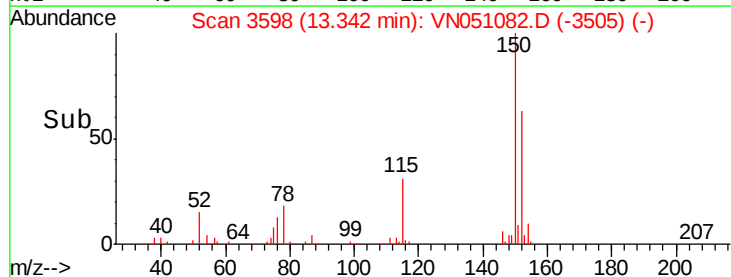
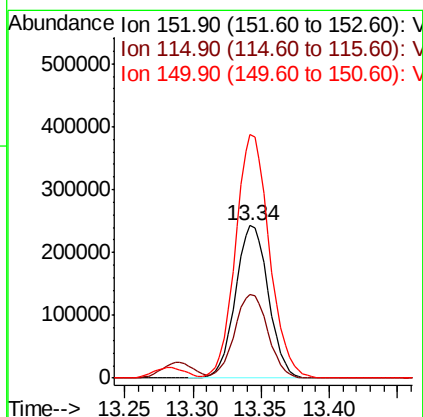
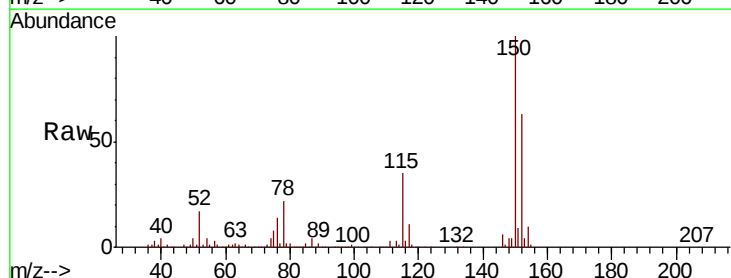
Manual Integrations
APPROVED

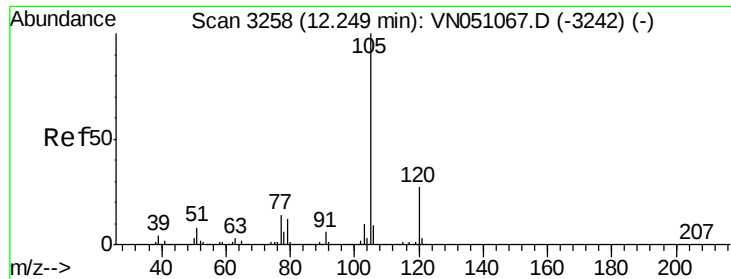
MMDadoda
9/11/2018 9:40:59 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.2	84.7
150	164.2	0.0	349.0





#73

Isopropylbenzene

Concen: 20.15 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 105 Resp: 686455

Ion Ratio Lower Upper

105 100

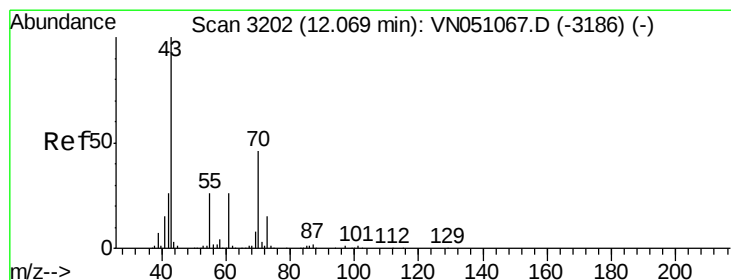
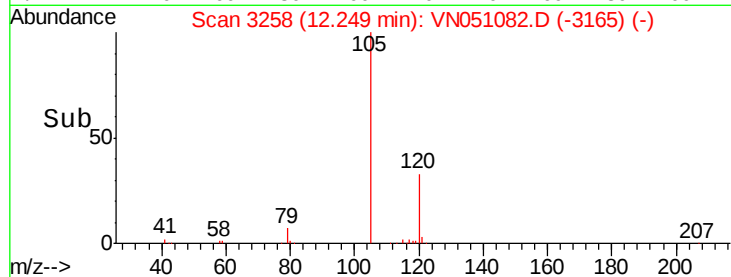
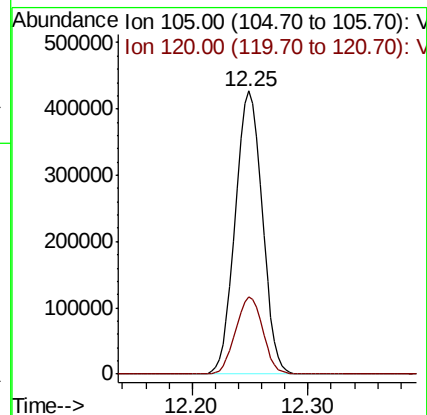
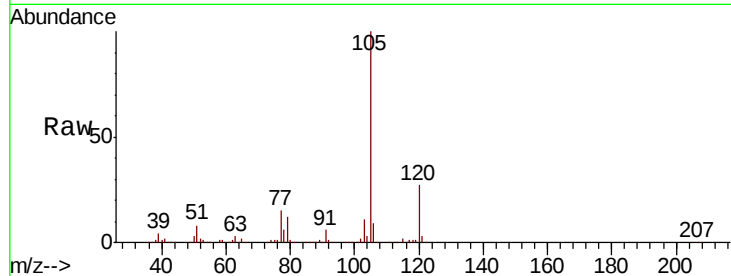
120 27.4 13.6 40.7

Manual Integrations

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MMDadoda

9/11/2018 9:40:59 AM



#74

N-ethyl acetate

Concen: 19.61 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Tgt Ion: 43 Resp: 168114

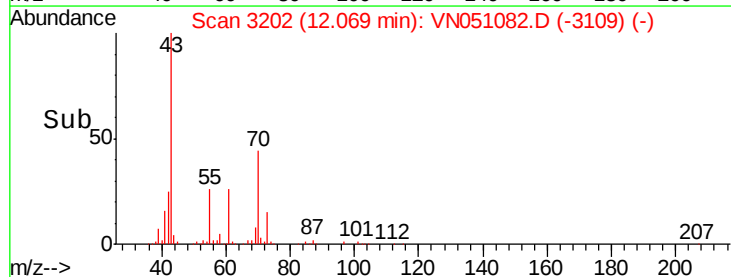
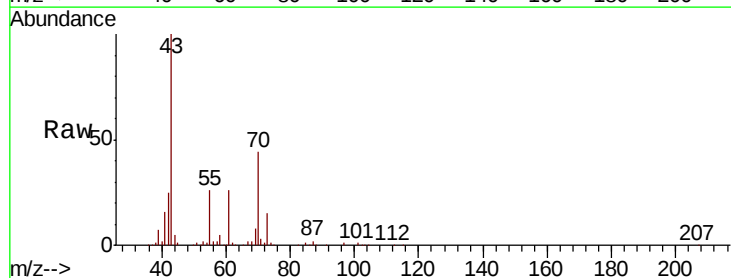
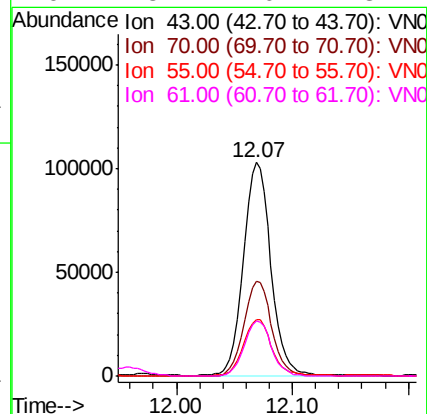
Ion Ratio Lower Upper

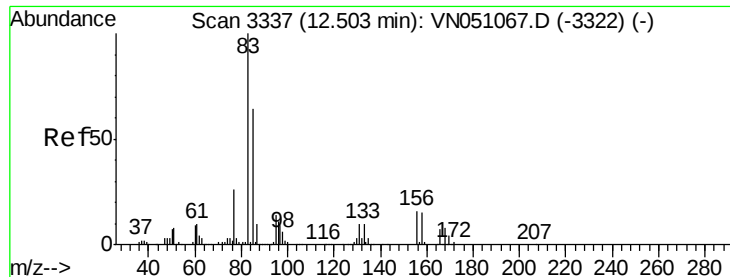
43 100

70 44.8 37.0 55.4

55 27.4 21.3 31.9

61 25.7 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 22.24 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 83 Resp: 180709

Ion Ratio Lower Upper

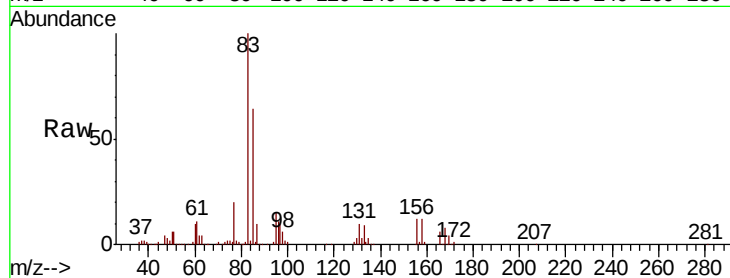
83 100

131 10.4 5.3 16.1

85 63.8 32.3 96.8

Manual Integrations
APPROVED

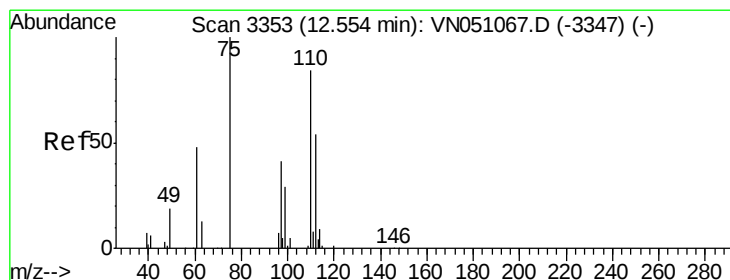
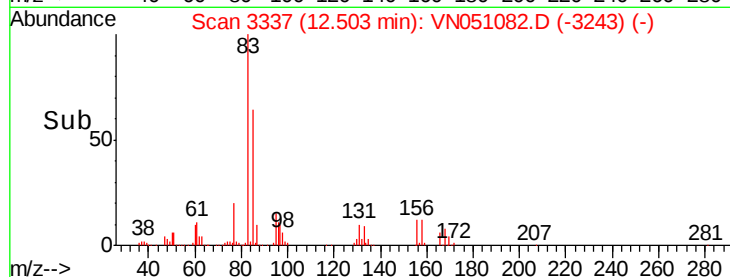
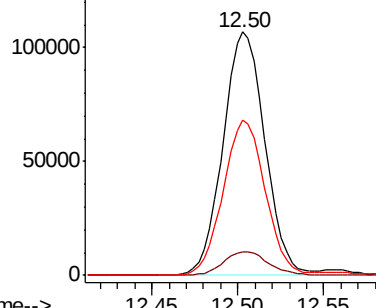
MMDadoda
9/11/2018 9:40:59 AM



Abundance Ion 82.90 (82.60 to 83.60): VN051067.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN051067.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN051067.D (-3322) (-)



#76

1,2,3-Trichloropropane

Concen: 21.71 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051082.D

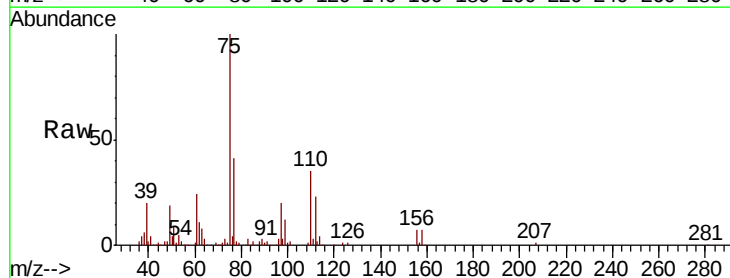
Acq: 10 Sep 2018 16:59

Tgt Ion: 75 Resp: 141994

Ion Ratio Lower Upper

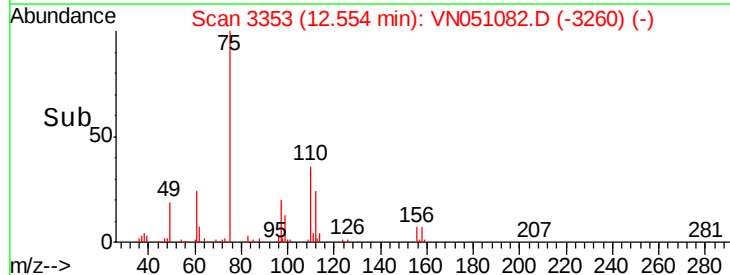
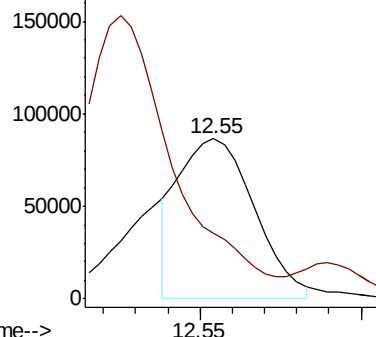
75 100

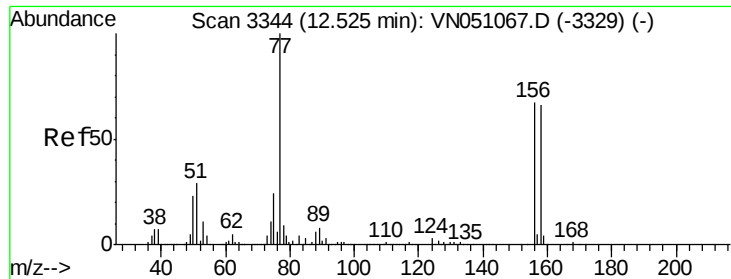
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN051067.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN051067.D (-3347) (-)





#77

Bromobenzene

Concen: 19.40 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

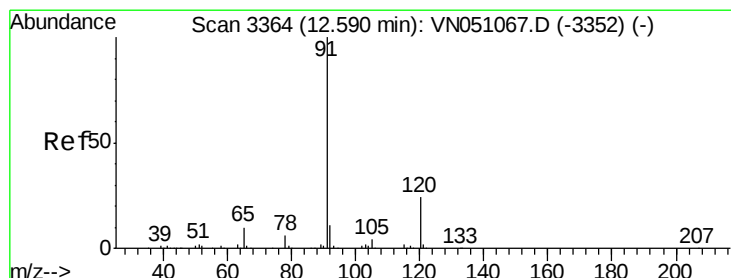
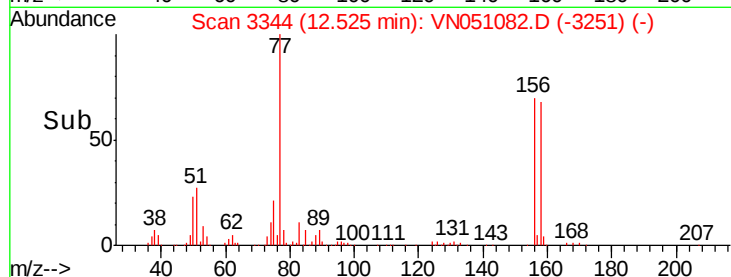
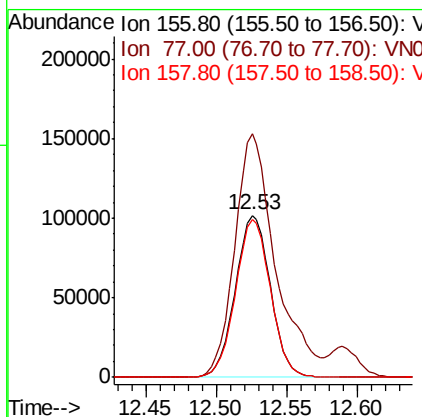
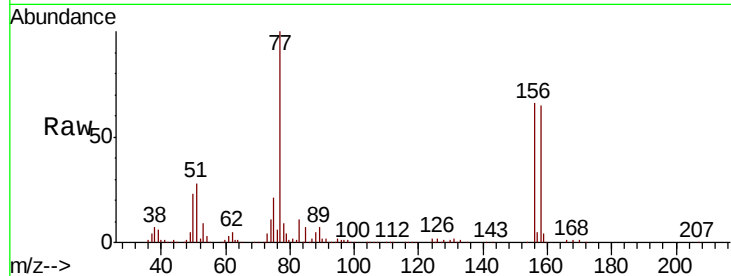
ClientSampleId :

VN0910MBSD01

Tot Ion:	156	Resp:	177495
Ion Ratio	Lower	Upper	
156	100		
77	174.5	87.5	262.6
158	96.9	49.0	147.2

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#78

n-propylbenzene

Concen: 19.98 ug/l

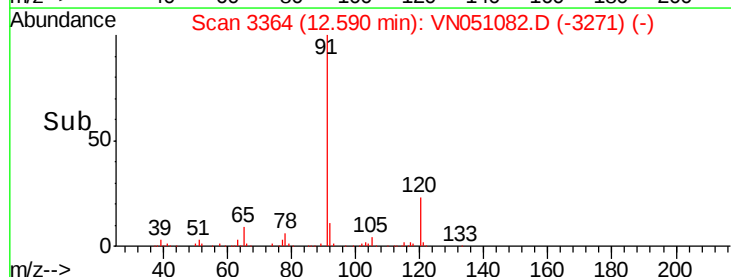
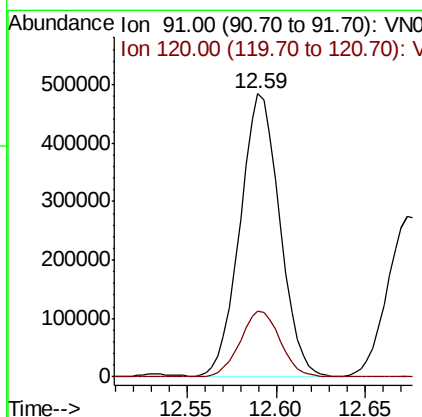
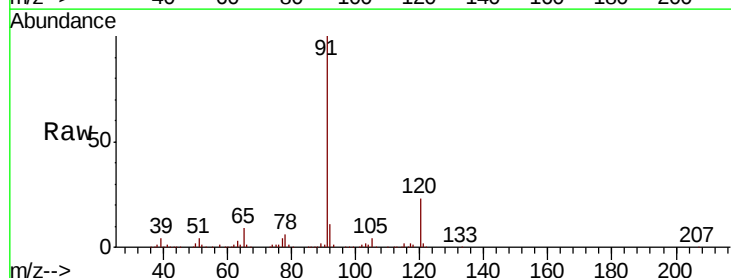
RT: 12.59 min Scan# 3364

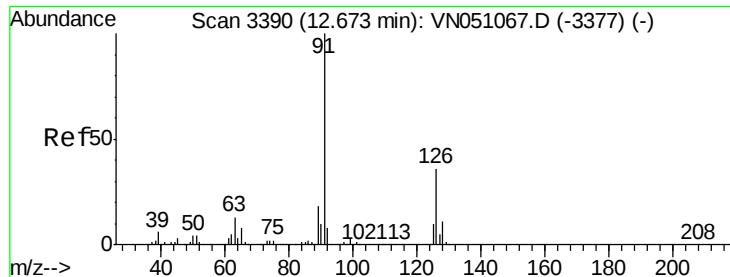
Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Tgt Ion:	91	Resp:	748234
Ion Ratio	Lower	Upper	
91	100		
120	23.6	12.0	36.0





#79

2-Chlorotoluene

Concen: 19.58 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion: 91 Resp: 458217

Ion Ratio Lower Upper

91 100

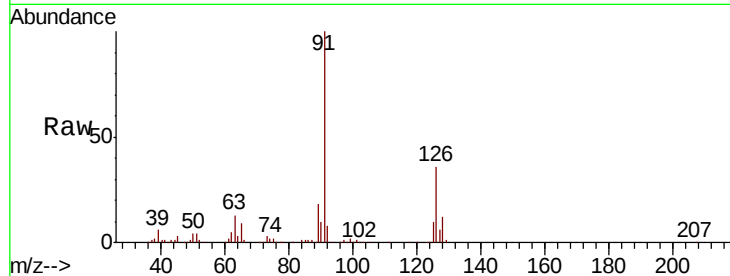
126 35.9 17.9 53.7

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN051067.D (-3377) (-)

Ion 125.90 (125.60 to 126.60): VN051067.D (-3377) (-)

400000

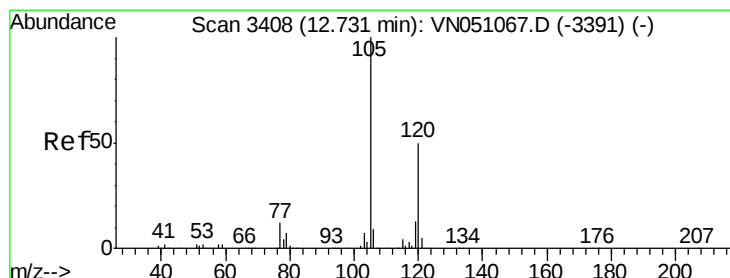
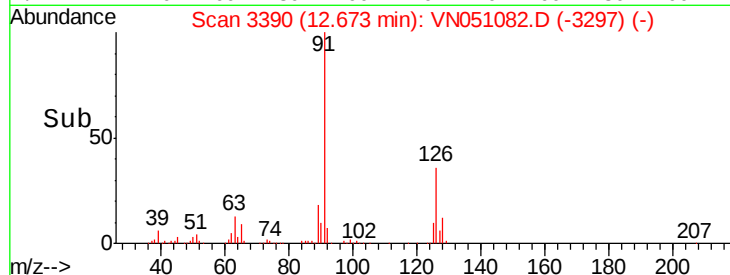
300000

200000

100000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 20.37 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051082.D

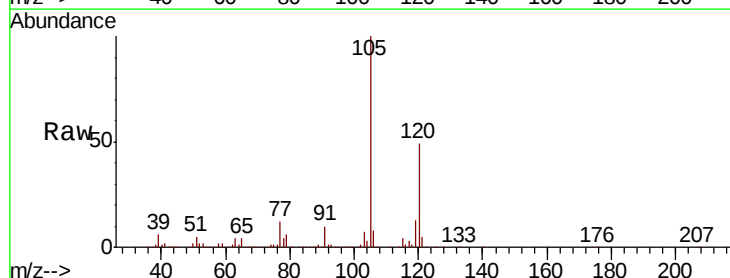
Acq: 10 Sep 2018 16:59

Tgt Ion: 105 Resp: 560944

Ion Ratio Lower Upper

105 100

120 49.3 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN051067.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN051067.D (-3391) (-)

400000

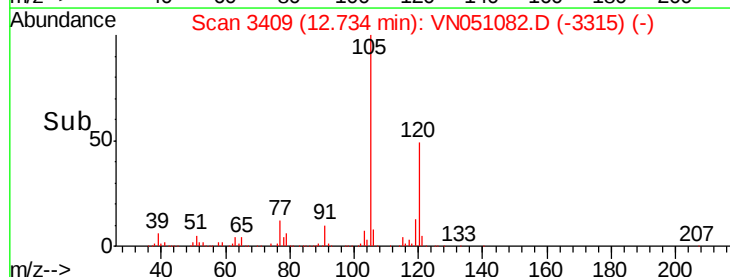
300000

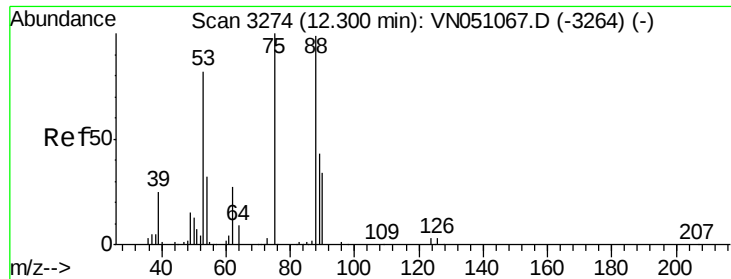
200000

100000

0

Time--> 12.60 12.70 12.80





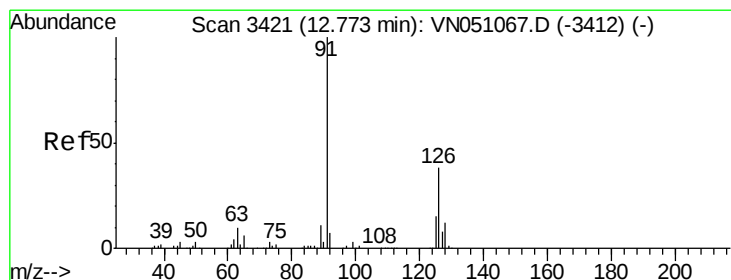
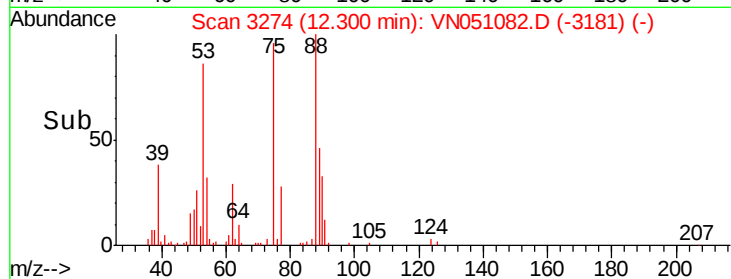
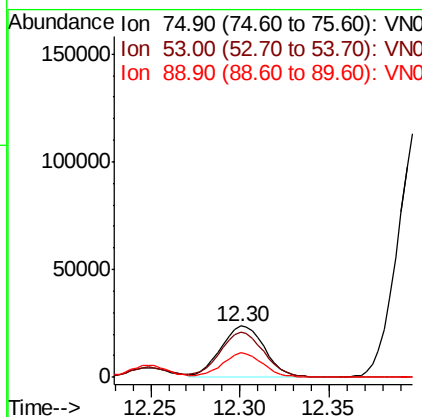
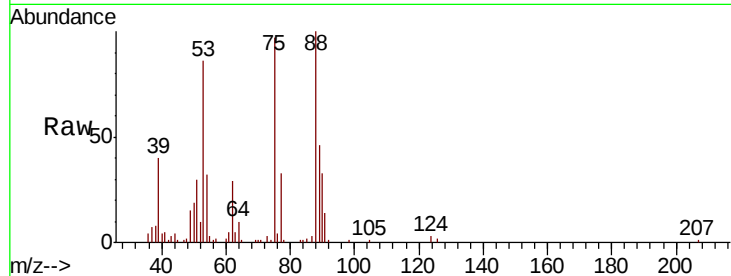
#81
trans-1,4-Dichloro-2-butene
Concen: 19.24 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.1	67.8	101.8
89	44.1	36.0	54.0

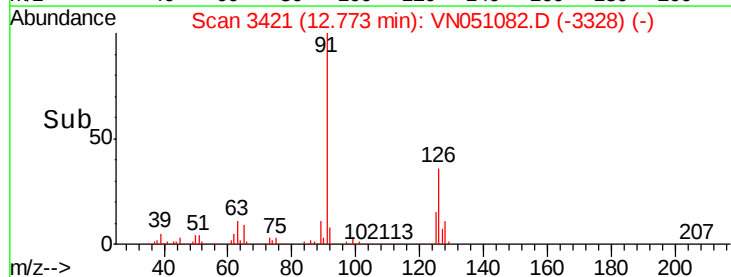
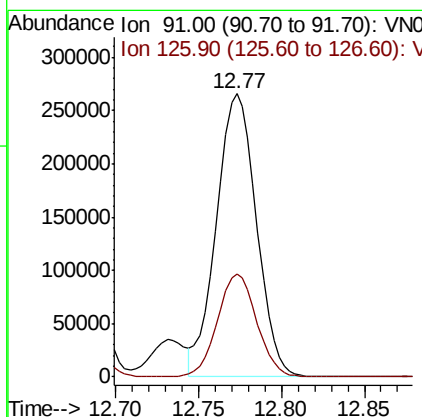
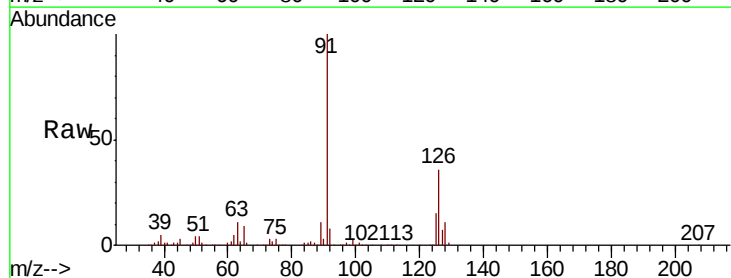
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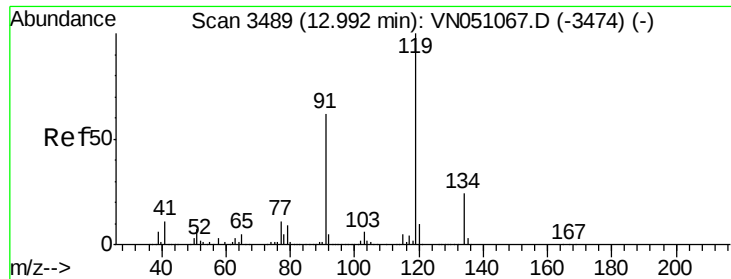
MMDadoda
9/11/2018 9:40:59 AM



#82
4-Chlorotoluene
Concen: 19.16 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.6	52.8





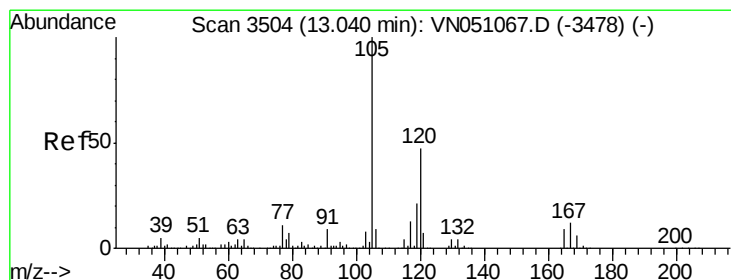
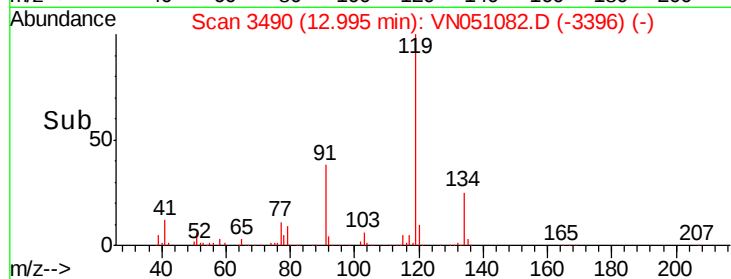
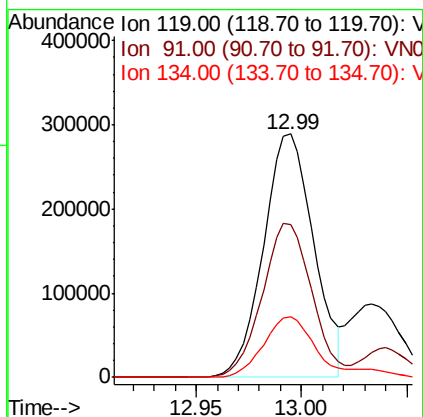
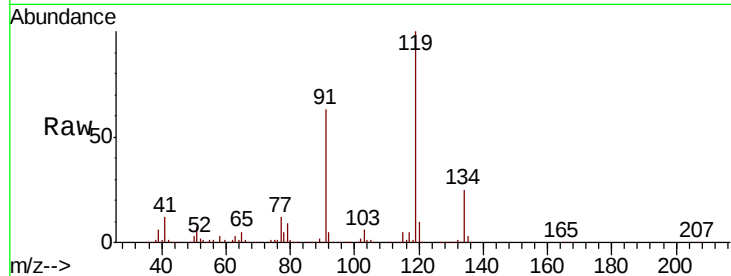
#83
 tert-Butylbenzene
 Concen: 19.77 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	480663		
91	62.0		30.8	92.3
134	27.4		13.2	39.6

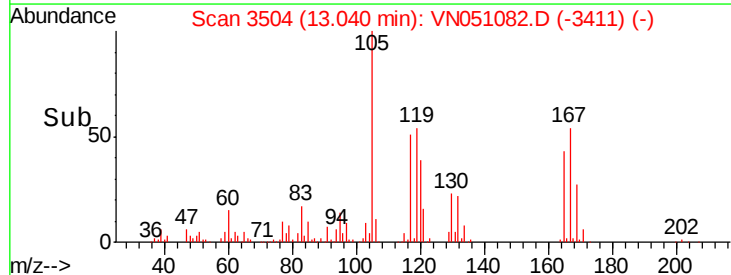
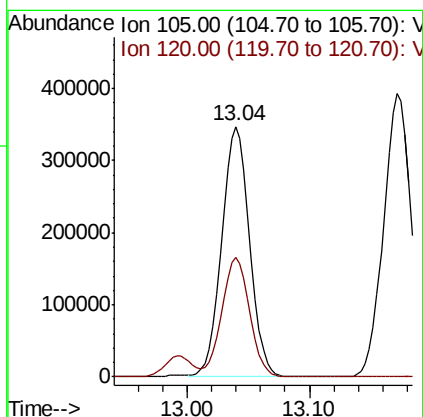
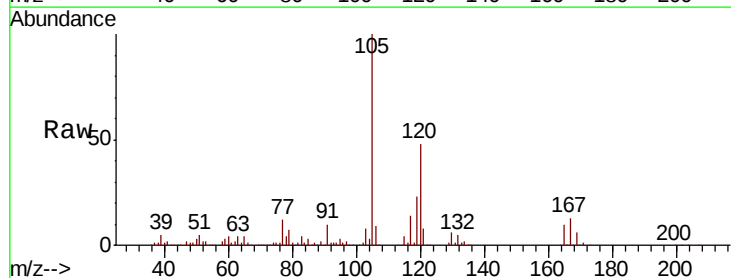
Manual Integrations
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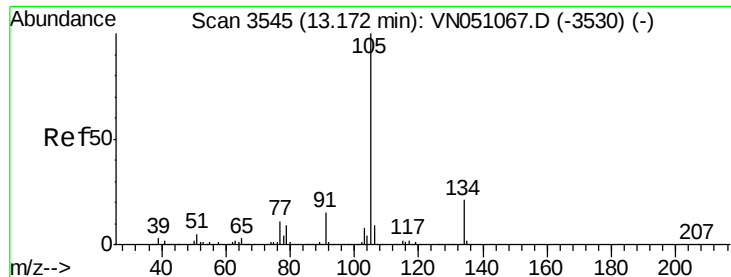
MMDadoda
 9/11/2018 9:40:59 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.51 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	555316		
120	47.8		23.3	69.8





#85

sec-Butylbenzene

Concen: 19.87 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0910MBSD01

Tot Ion:105 Resp: 619655

Ion Ratio Lower Upper

105 100

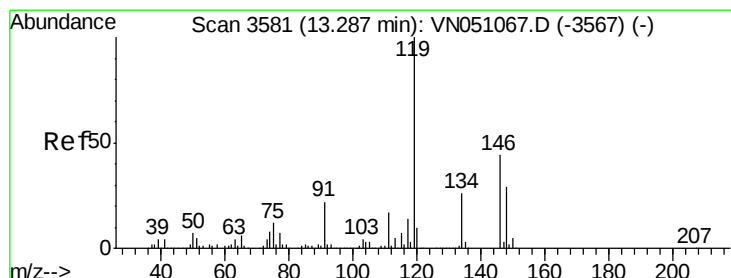
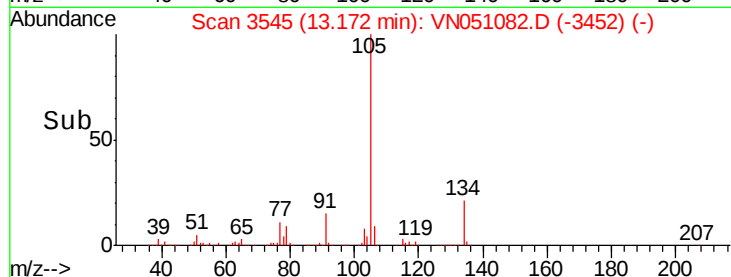
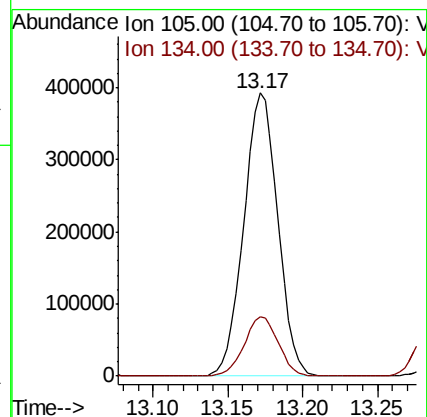
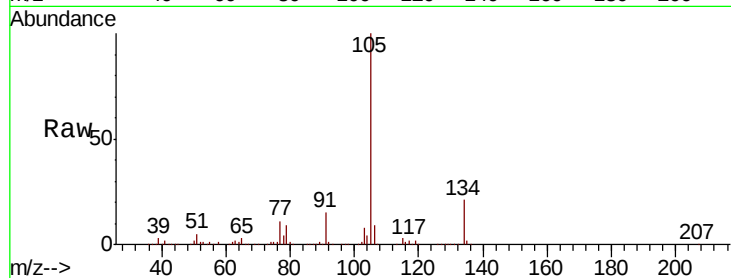
134 21.0 10.4 31.4

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#86

p-Isopropyltoluene

Concen: 20.16 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

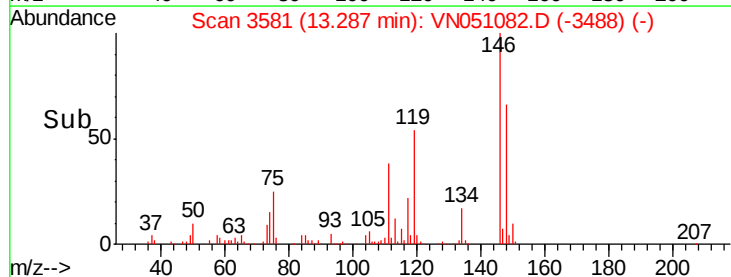
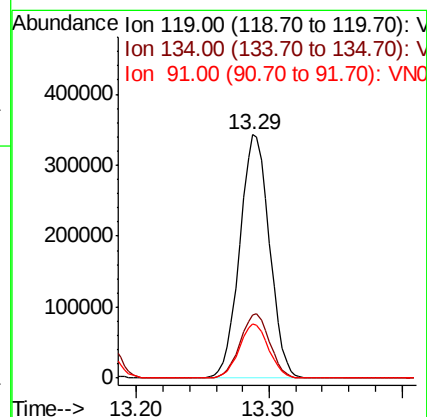
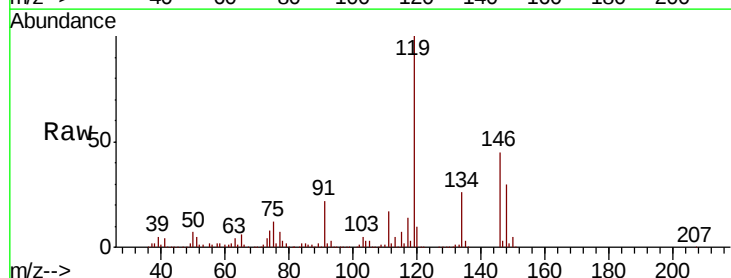
Tgt Ion:119 Resp: 532998

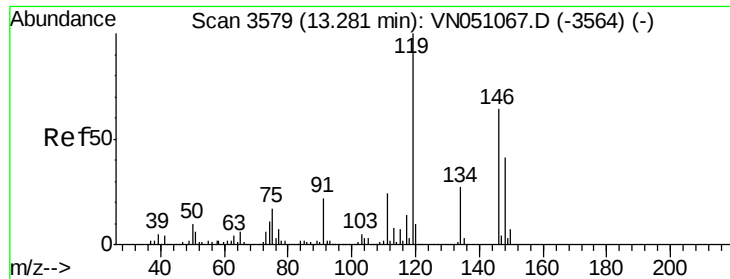
Ion Ratio Lower Upper

119 100

134 26.5 13.5 40.4

91 21.9 10.9 32.9





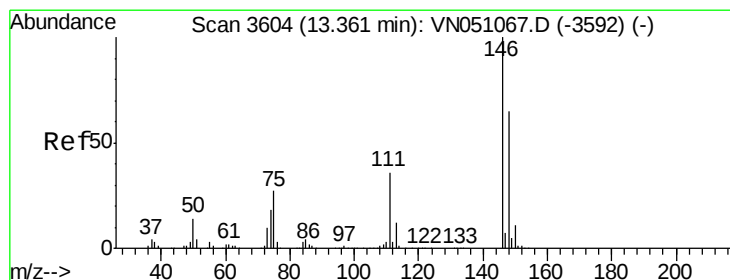
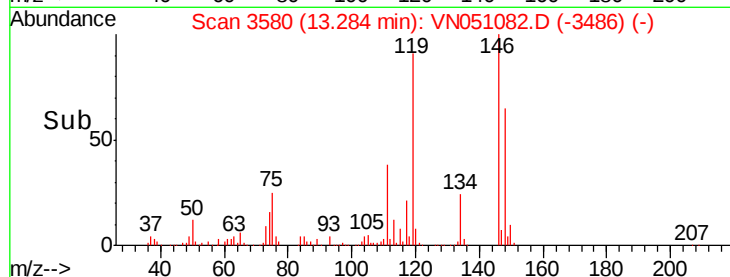
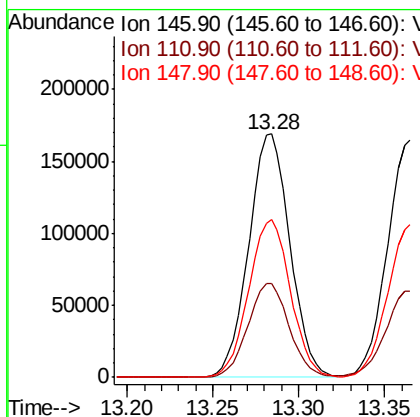
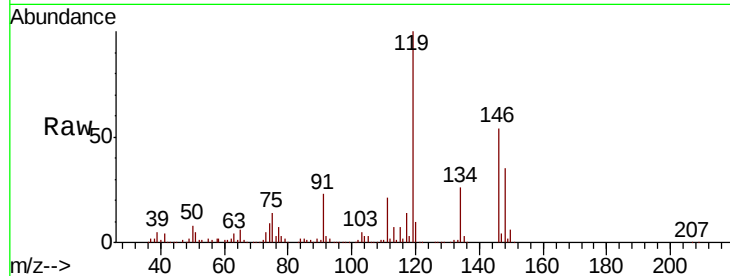
#87
 1,3-Dichlorobenzene
 Concen: 18.07 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	280557		
111	38.4	19.1	57.1	
148	65.5	32.2	96.6	

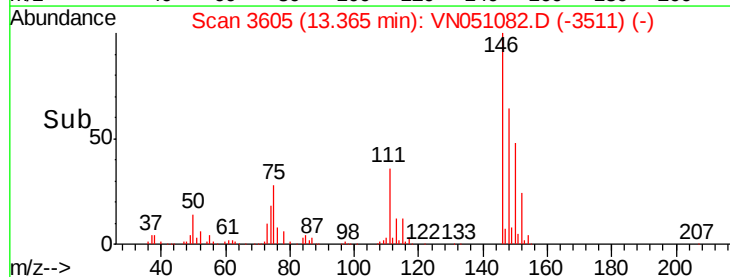
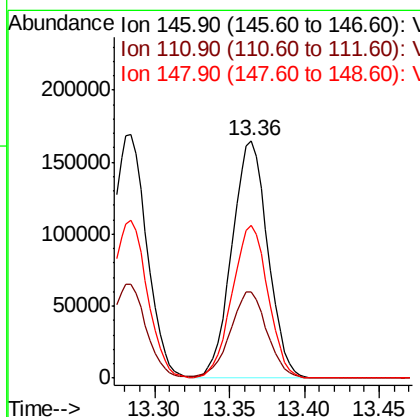
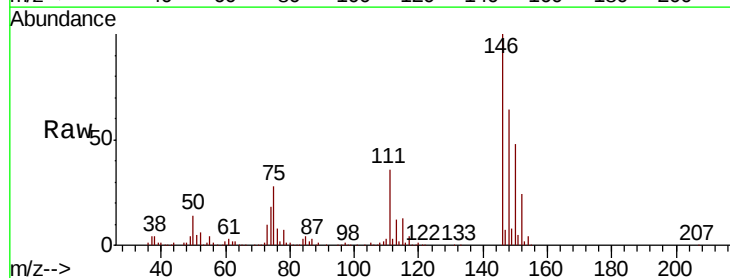
Manual Integrations
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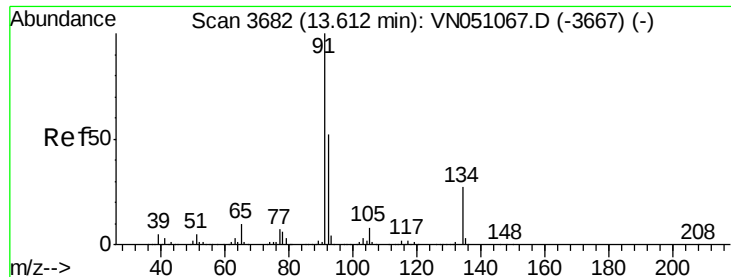
MMDadoda
 9/11/2018 9:40:59 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.32 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	275266		
111	37.0	18.4	55.0	
148	64.5	32.2	96.6	





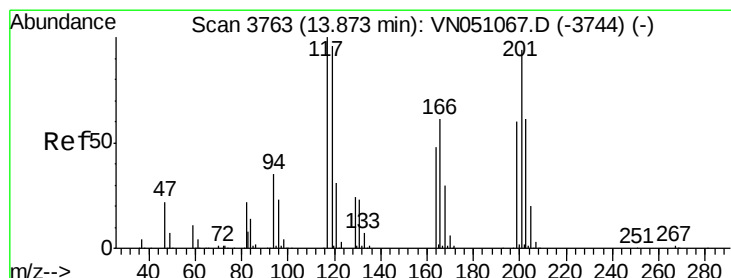
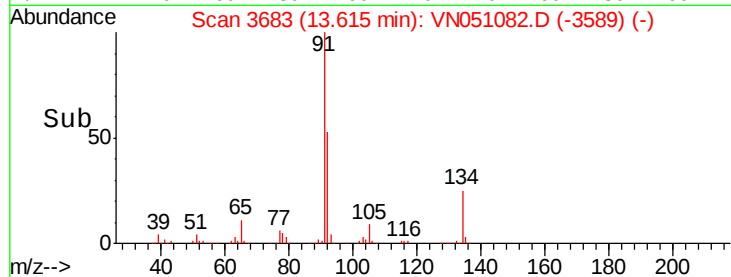
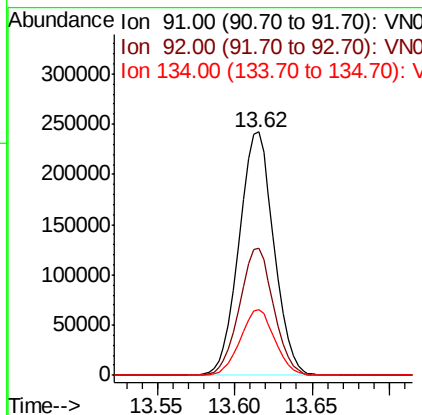
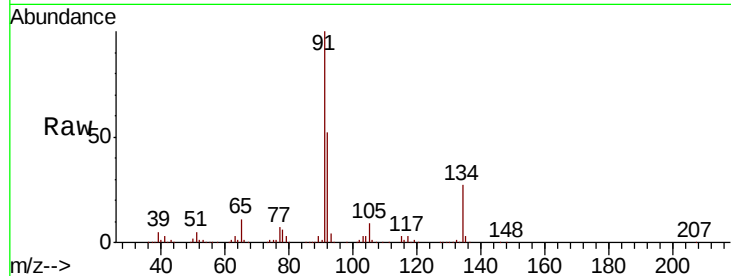
#89
n-Butylbenzene
Concen: 18.40 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	26.2	78.6
134	26.9	13.7	41.1

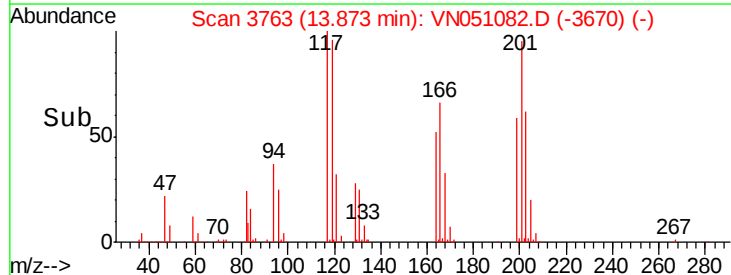
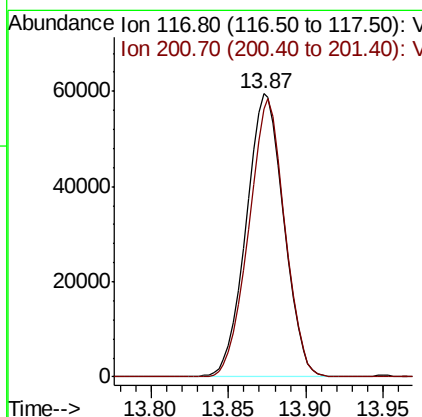
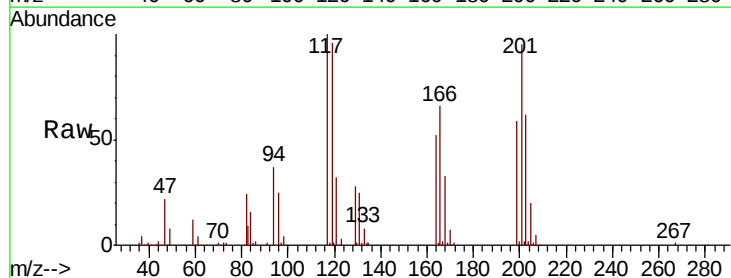
Manual Integrations
APPROVED

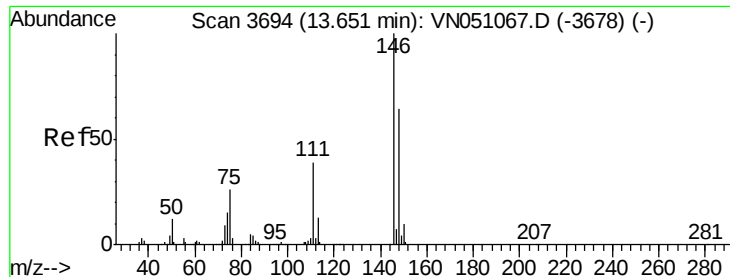
MMDadoda
9/11/2018 9:40:59 AM



#90
Hexachloroethane
Concen: 20.62 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.9	47.3	142.0





#91

1,2-Dichlorobenzene

Concen: 18.67 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Instrument :

MSVOA_N

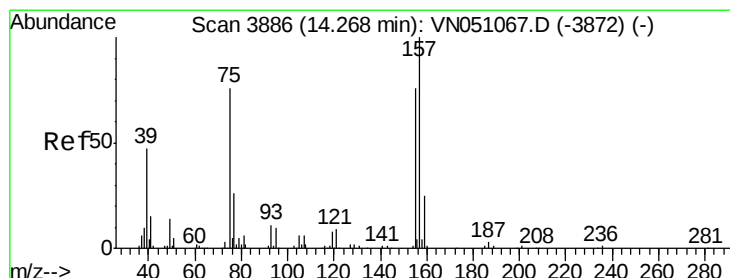
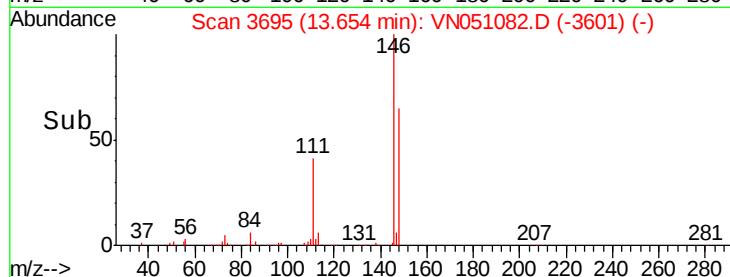
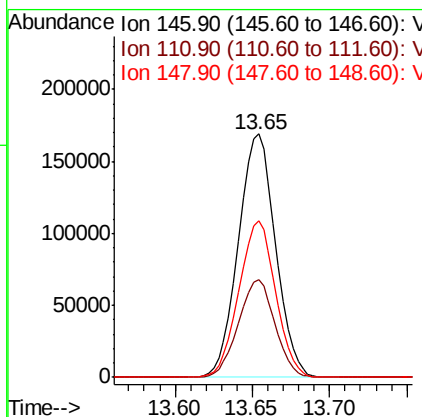
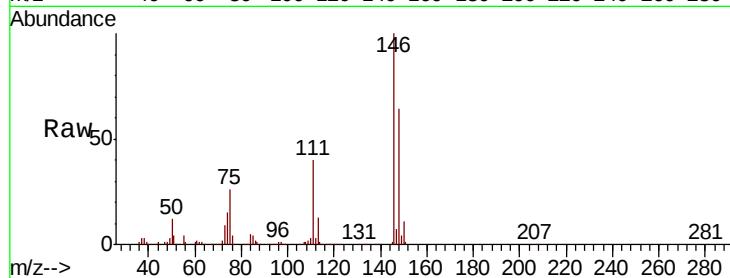
ClientSampleId :

VN0910MBSD01

Tot Ion:	146	Resp:	282344
Ion Ratio	Lower	Upper	
146	100		
111	39.4	19.7	59.0
148	63.5	32.1	96.3

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 20.22 ug/l

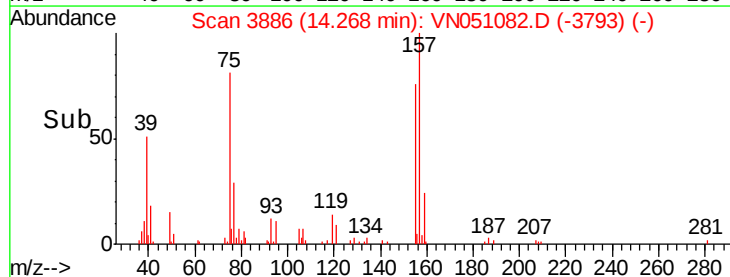
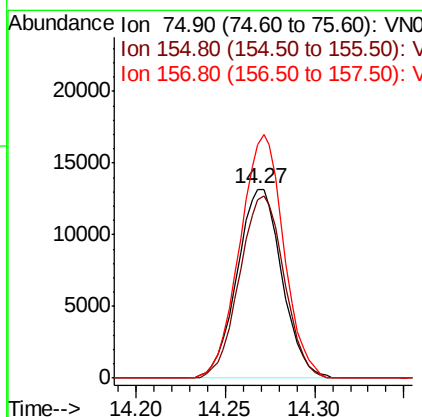
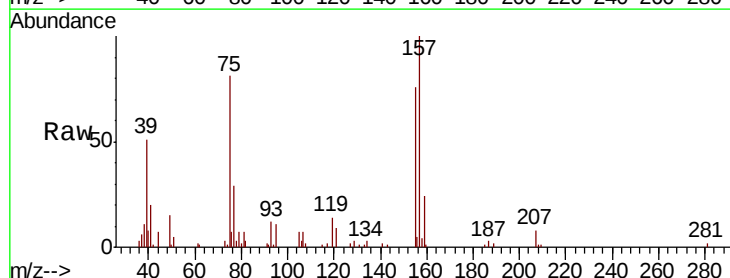
RT: 14.27 min Scan# 3886

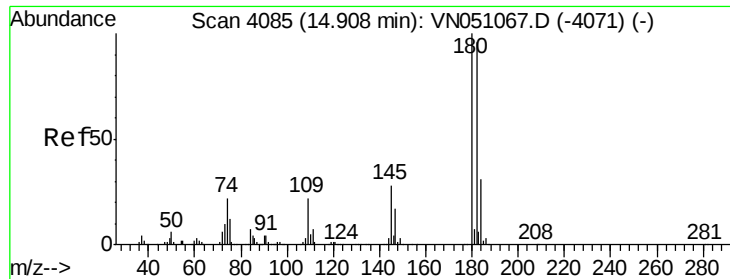
Delta R.T. 0.00 min

Lab File: VN051082.D

Acq: 10 Sep 2018 16:59

Tgt Ion:	75	Resp:	23066
Ion Ratio	Lower	Upper	
75	100		
155	95.9	48.7	146.1
157	125.8	63.6	190.9





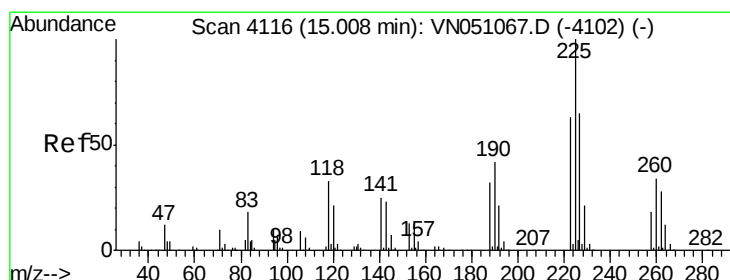
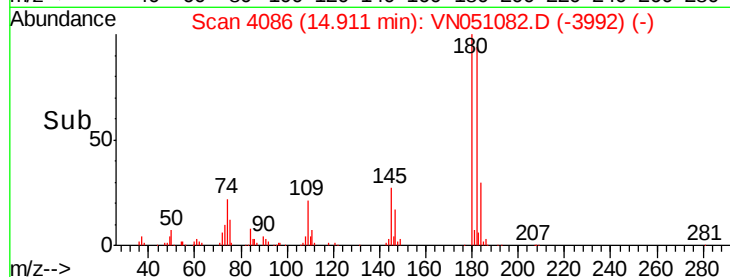
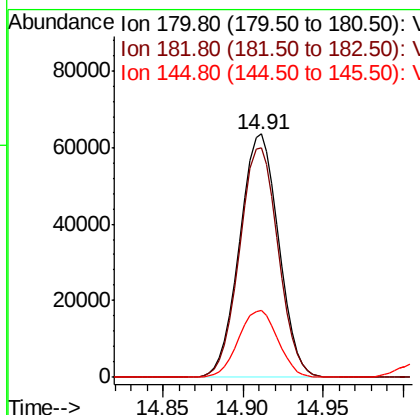
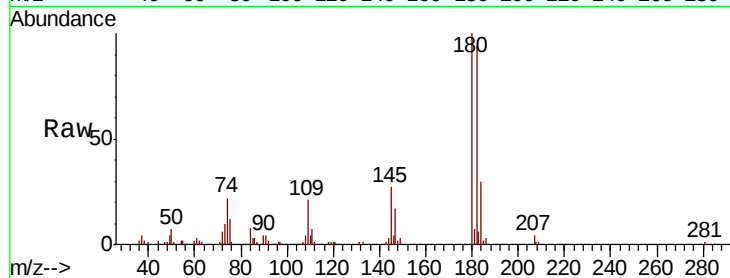
#93
 1,2,4-Trichlorobenzene
 Concen: 17.28 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0910MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	93.5	47.3	141.8	
145	27.6	14.2	42.6	

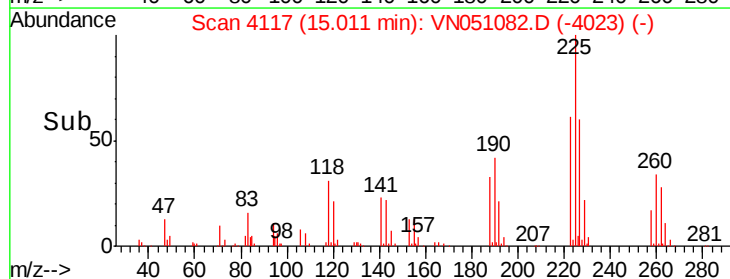
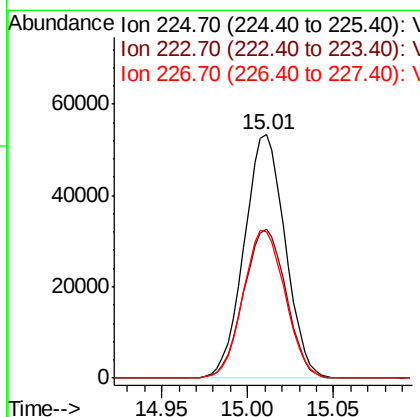
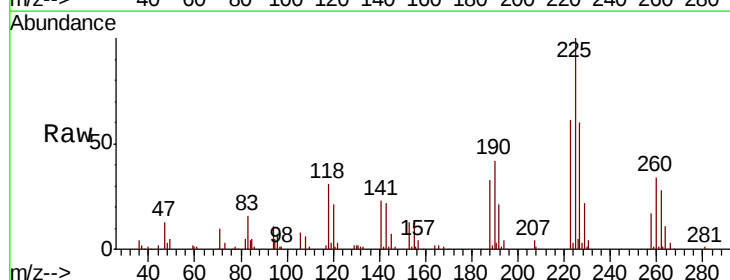
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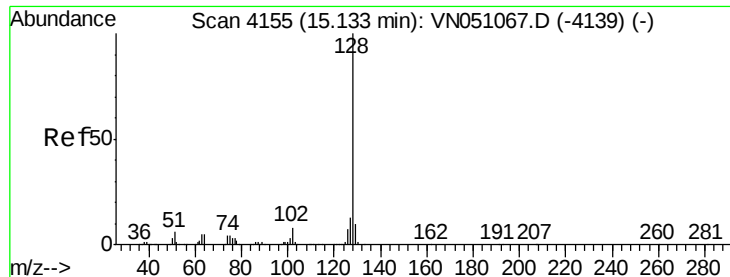
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#94
 Hexachlorobutadiene
 Concen: 18.98 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051082.D
 Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.2	31.4	94.0	
227	62.1	32.1	96.3	





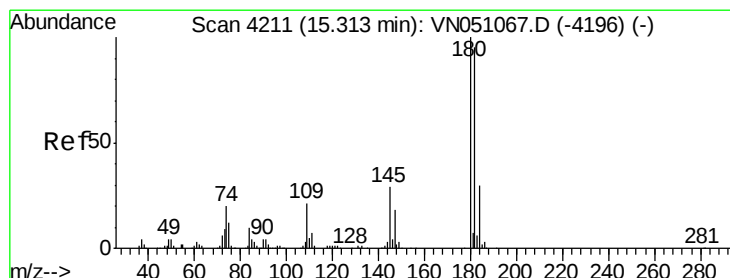
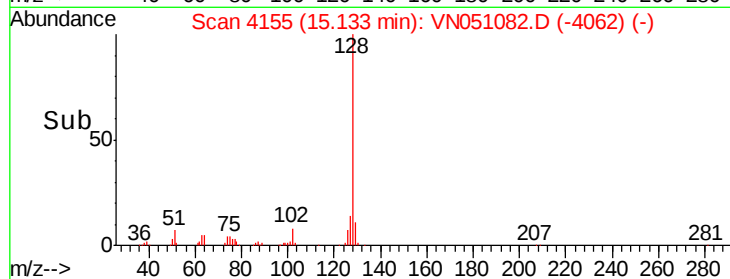
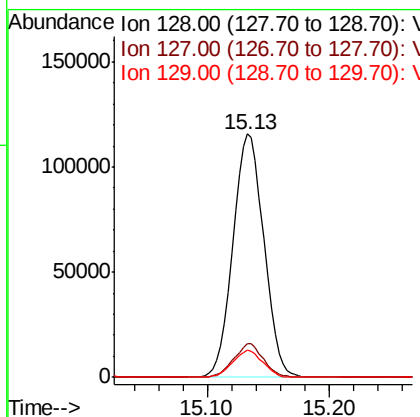
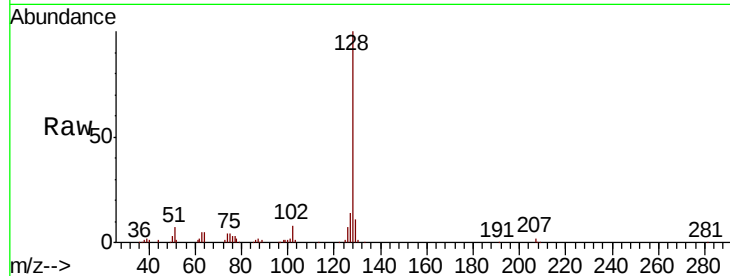
#95
Naphthalene
Concen: 17.22 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0910MBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	10.8	8.6	12.8

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#96
1,2,3-Trichlorobenzene
Concen: 17.76 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN051082.D
Acq: 10 Sep 2018 16:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.8	143.3
145	30.4	14.6	43.8

