

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050052.D
 Acq On : 25 Jul 2018 19:20
 Operator : MD\SY
 Sample : VN0725WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:55:05 PM

Quant Time: Jul 26 07:10:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 06:27:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	596788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	884150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	802956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	398921	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	425217	51.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.14%	
35) Dibromofluoromethane	7.59	113	374461	51.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.74%	
50) Toluene-d8	10.09	98	1375801	51.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.68%	
62) 4-Bromofluorobenzene	12.40	95	435865	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	180980	21.11	ug/l	99
3) Chloromethane	2.06	50	186151	19.97	ug/l	100
4) Vinyl Chloride	2.18	62	191792	19.54	ug/l	99
5) Bromomethane	2.56	94	119707	21.39	ug/l	100
6) Chloroethane	2.70	64	113854	19.31	ug/l	99
7) Trichlorofluoromethane	3.01	101	251582	19.79	ug/l	98
8) Diethyl Ether	3.41	74	83828	19.77	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	145588	19.04	ug/l	100
10) Methyl Iodide	3.95	142	181746	18.52	ug/l	100
11) Tert butyl alcohol	4.81	59	60986	99.54	ug/l	99
12) 1,1-Dichloroethene	3.73	96	133814	19.45	ug/l	96
13) Acrolein	3.61	56	36304	73.75	ug/l	98
14) Allyl chloride	4.32	41	208440	19.54	ug/l	99
15) Acrylonitrile	4.99	53	262441	98.18	ug/l	100
16) Acetone	3.82	43	197793	98.21	ug/l	97
17) Carbon Disulfide	4.05	76	398644	18.92	ug/l	100
18) Methyl Acetate	4.33	43	164637	20.62	ug/l	98
19) Methyl tert-butyl Ether	5.06	73	369652	20.17	ug/l	100
20) Methylene Chloride	4.55	84	155337	20.30	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	144023	19.76	ug/l	98
22) Diisopropyl ether	5.96	45	443293	20.96	ug/l	97
23) Vinyl Acetate	5.90	43	1473705	98.61	ug/l	99
24) 1,1-Dichloroethane	5.85	63	275182	19.90	ug/l	99
25) 2-Butanone	6.85	43	312375	98.36	ug/l	100
26) 2,2-Dichloropropane	6.83	77	195713	18.60	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	155613	19.83	ug/l	98
28) Bromochloromethane	7.20	49	124645	19.76	ug/l	100
29) Tetrahydrofuran	7.22	42	201780	98.32	ug/l	100
30) Chloroform	7.38	83	279169	19.78	ug/l	98
31) Cyclohexane	7.66	56	223747	19.47	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	237525	19.68	ug/l	99
36) 1,1-Dichloropropene	7.80	75	201482	20.23	ug/l	99
37) Ethyl Acetate	6.94	43	139629	20.10	ug/l	99
38) Carbon Tetrachloride	7.78	117	209480	19.82	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050052.D
 Acq On : 25 Jul 2018 19:20
 Operator : MD\SY
 Sample : VN0725WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:55:05 PM

Quant Time: Jul 26 07:10:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 06:27:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	197022	19.23	ug/l	95
40) Benzene	8.05	78	616674	20.34	ug/l	99
41) Methacrylonitrile	7.17	41	66281	20.07	ug/l #	87
42) 1,2-Dichloroethane	8.13	62	205508	20.32	ug/l	100
43) Isopropyl Acetate	8.17	43	255538	18.81	ug/l	99
44) Trichloroethene	8.84	130	160932	19.76	ug/l	100
45) 1,2-Dichloropropane	9.12	63	162395	20.23	ug/l	96
46) Dibromomethane	9.21	93	100845	20.23	ug/l	99
47) Bromodichloromethane	9.41	83	211009	20.05	ug/l	99
48) Methyl methacrylate	9.20	41	118420	19.80	ug/l	98
49) 1,4-Dioxane	9.20	88	33718	414.24	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	704866	103.24	ug/l	99
52) Toluene	10.16	92	374391	20.92	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	197227	19.86	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	228480	20.14	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	145504	20.50	ug/l	99
56) Ethyl methacrylate	10.43	69	169024	18.90	ug/l	99
57) 1,3-Dichloropropane	10.71	76	233836	20.23	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	400190	94.59	ug/l	99
59) 2-Hexanone	10.76	43	456314	94.25	ug/l	100
60) Dibromochloromethane	10.90	129	158234	20.14	ug/l	99
61) 1,2-Dibromoethane	11.01	107	139569	19.82	ug/l	98
64) Tetrachloroethene	10.63	164	153564	19.89	ug/l	99
65) Chlorobenzene	11.44	112	403321	19.89	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	153513	19.70	ug/l	99
67) Ethyl Benzene	11.51	91	654398	20.09	ug/l	100
68) m/p-Xylenes	11.62	106	519322	42.14	ug/l	98
69) o-Xylene	11.95	106	243157	20.70	ug/l	99
70) Styrene	11.97	104	387508	19.13	ug/l	99
71) Bromoform	12.13	173	111787	19.72	ug/l #	100
73) Isopropylbenzene	12.25	105	648441	20.96	ug/l	100
74) N-amyl acetate	12.07	43	180484	19.09	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	184020	21.25	ug/l	100
76) 1,2,3-Trichloropropane	12.56	75	148633m	20.05	ug/l	
77) Bromobenzene	12.53	156	171772	20.03	ug/l	99
78) n-propylbenzene	12.59	91	739412	21.38	ug/l	100
79) 2-Chlorotoluene	12.68	91	451321	21.06	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	533184	21.91	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	44784	19.16	ug/l	95
82) 4-Chlorotoluene	12.78	91	447814	21.10	ug/l	99
83) tert-Butylbenzene	13.00	119	451664	21.27	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	549975	22.42	ug/l	99
85) sec-Butylbenzene	13.17	105	608125	21.43	ug/l	100
86) p-Isopropyltoluene	13.29	119	515324	21.55	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	291615	20.06	ug/l	100
88) 1,4-Dichlorobenzene	13.37	146	283445	20.01	ug/l	99
89) n-Butylbenzene	13.62	91	390628	19.87	ug/l	100
90) Hexachloroethane	13.88	117	100879	19.00	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	298482	20.54	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28072	19.88	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
Data File : VN050052.D
Acq On : 25 Jul 2018 19:20
Operator : MD\SY
Sample : VN0725WBSD02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

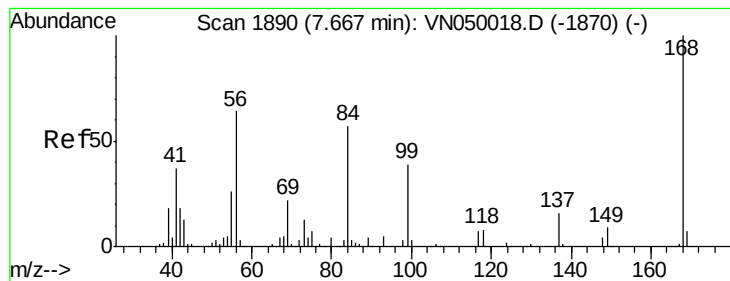
Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM

Quant Time: Jul 26 07:10:21 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 24 06:27:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	126061	18.43	ug/l	98
94) Hexachlorobutadiene	15.01	225	91023	20.46	ug/l	97
95) Naphthalene	15.14	128	268526	17.85	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	134557	19.34	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion:168 Resp: 596788

Ion Ratio Lower Upper

168 100

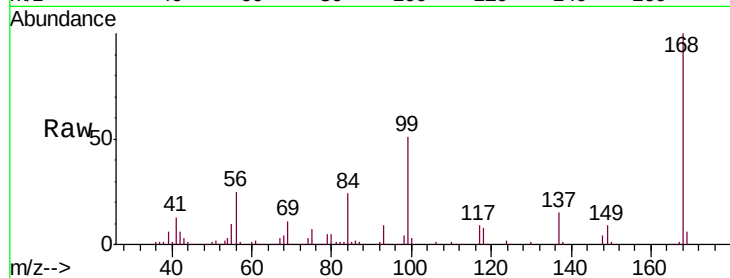
99 50.4 40.0 60.0

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:55:05 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

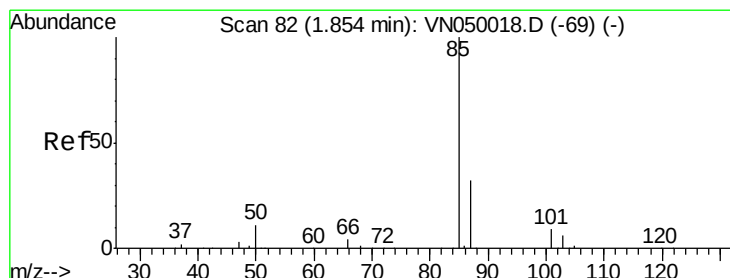
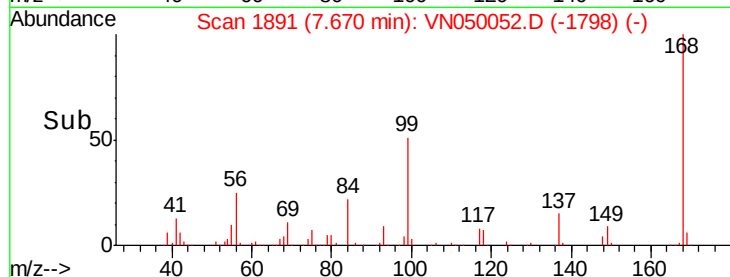
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 21.11 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN050052.D

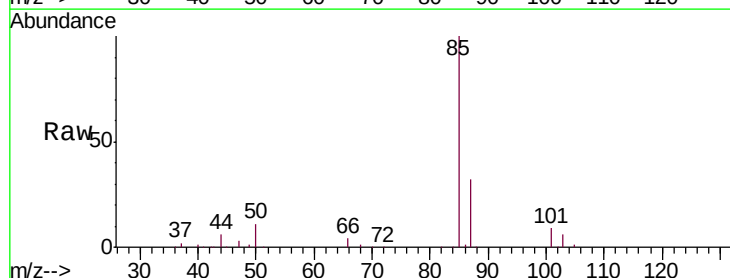
Acq: 25 Jul 2018 19:20

Tgt Ion: 85 Resp: 180980

Ion Ratio Lower Upper

85 100

87 31.8 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

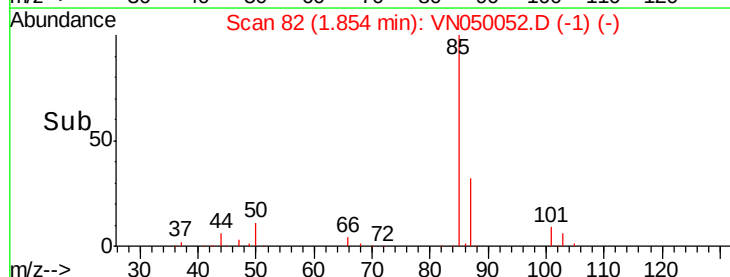
150000

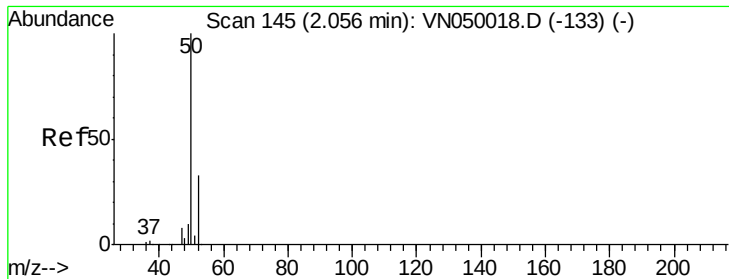
100000

50000

0

Time-->





#3

Chloromethane

Concen: 19.97 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 50 Resp: 186151

Ion Ratio Lower Upper

50 100

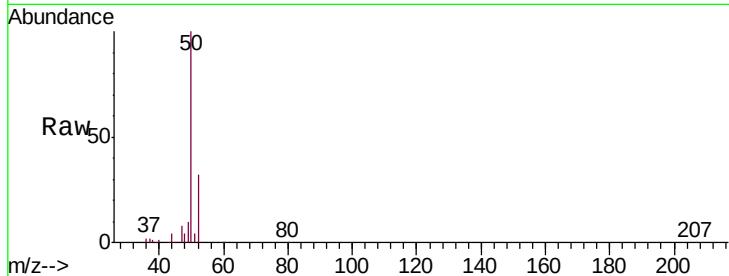
52 32.5 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:55:05 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

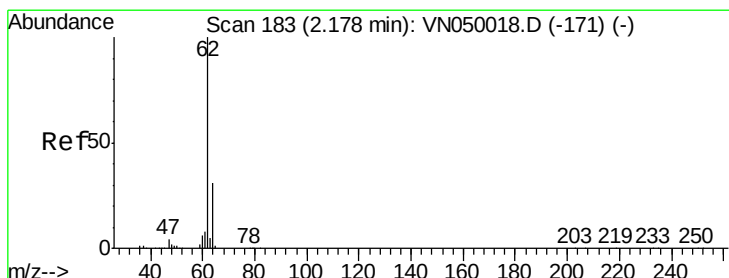
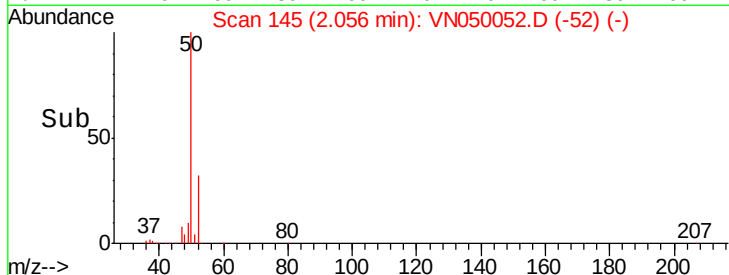
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 19.54 ug/l

RT: 2.18 min Scan# 183

Delta R.T. -0.00 min

Lab File: VN050052.D

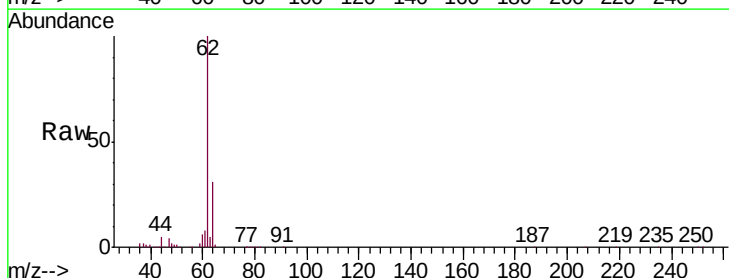
Acq: 25 Jul 2018 19:20

Tgt Ion: 62 Resp: 191792

Ion Ratio Lower Upper

62 100

64 31.2 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

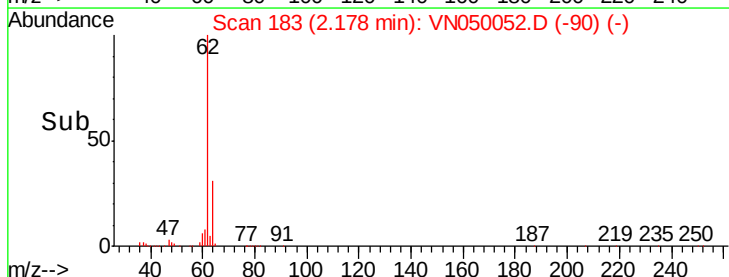
150000

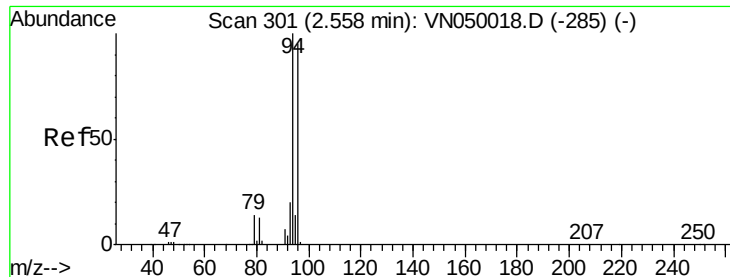
100000

50000

0

Time-->





#5

Bromomethane

Concen: 21.39 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 94 Resp: 119707

Ion Ratio Lower Upper

94 100

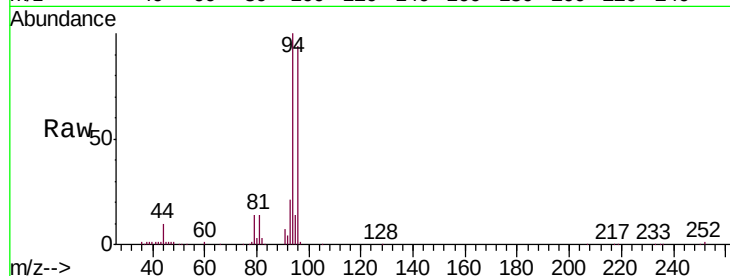
96 93.4 74.6 112.0

Manual Integrations

APPROVED

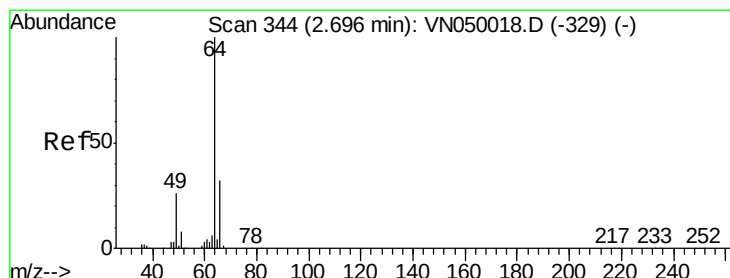
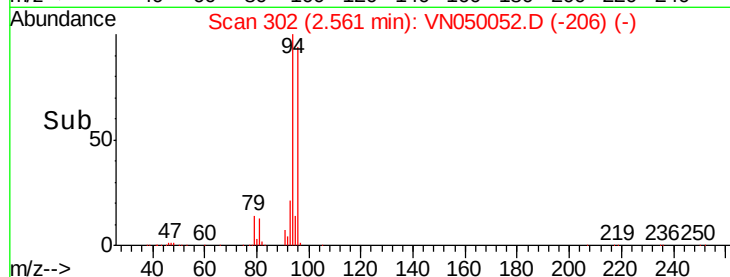
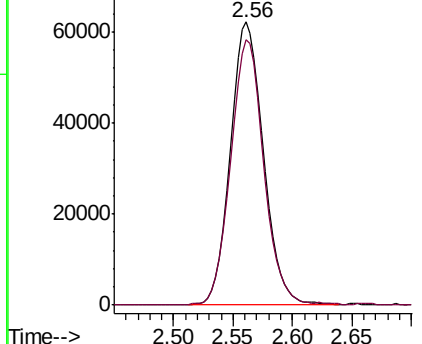
MMDadoda

7/26/2018 3:55:05 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.31 ug/l

RT: 2.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VN050052.D

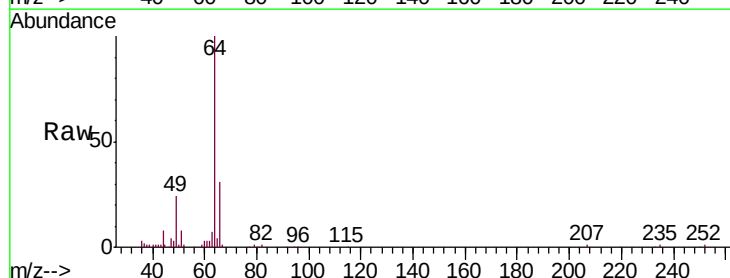
Acq: 25 Jul 2018 19:20

Tgt Ion: 64 Resp: 113854

Ion Ratio Lower Upper

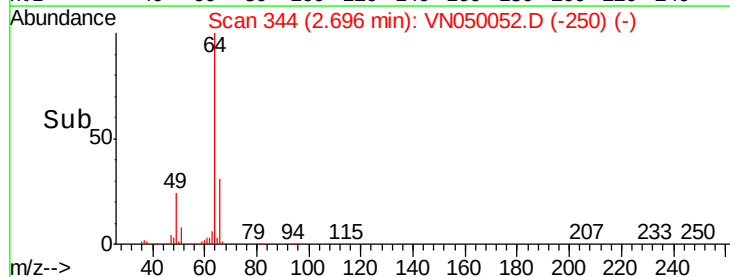
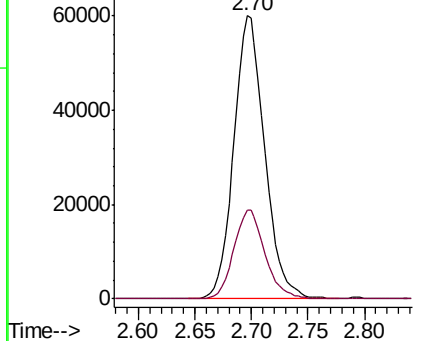
64 100

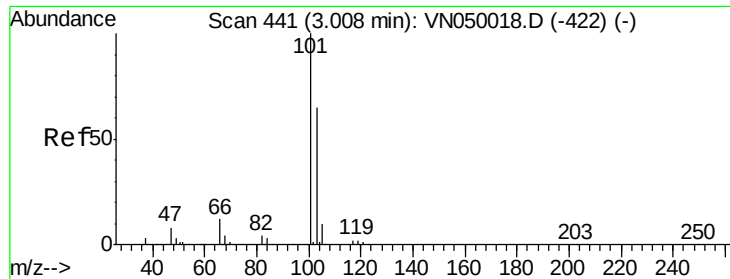
66 31.2 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

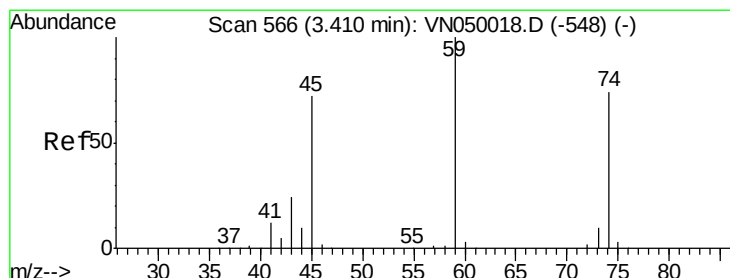
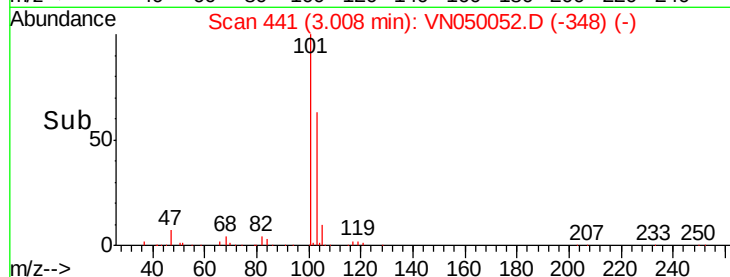
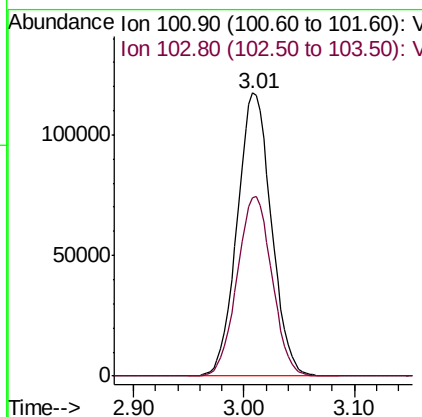
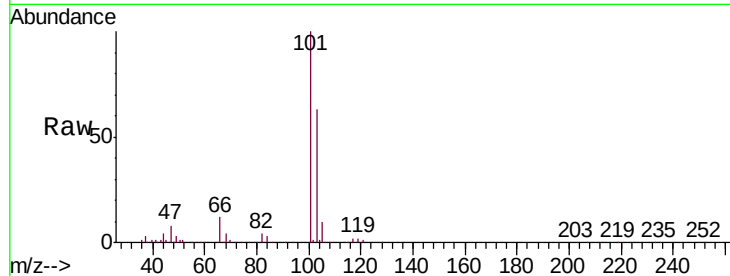
Trichlorofluoromethane
 Concen: 19.79 ug/l
 RT: 3.01 min Scan# 441
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.2	51.7	77.5

Manual Integrations
 APPROVED

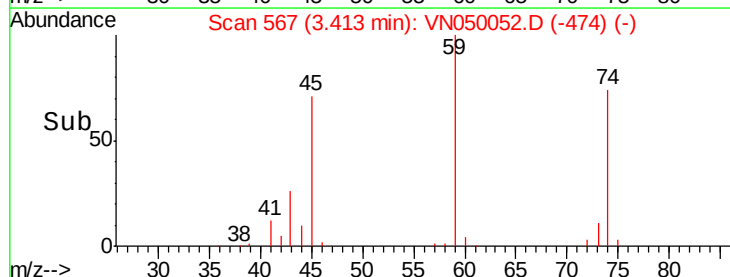
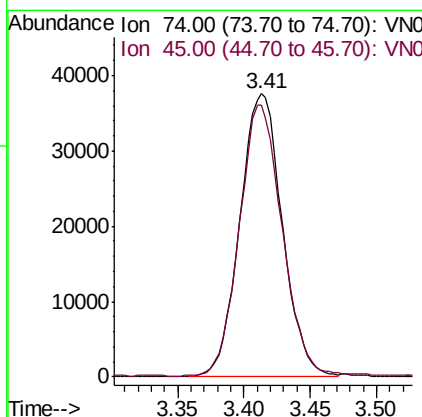
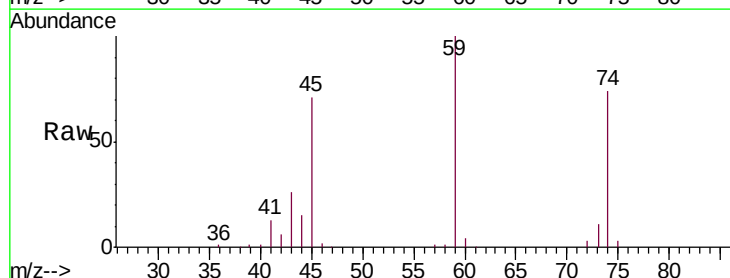
MMDadoda
 7/26/2018 3:55:05 PM

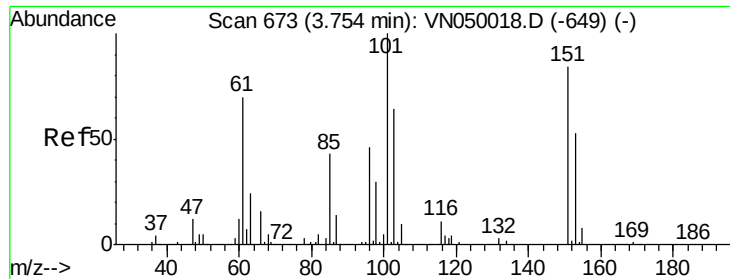


#8

Diethyl Ether
 Concen: 19.77 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.4	47.6	142.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.04 ug/l

RT: 3.75 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

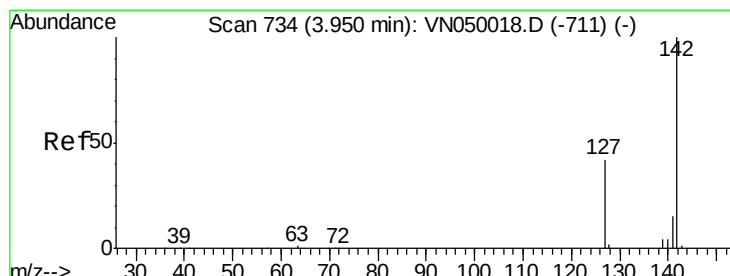
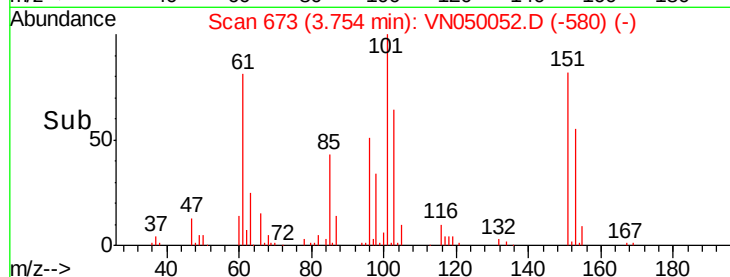
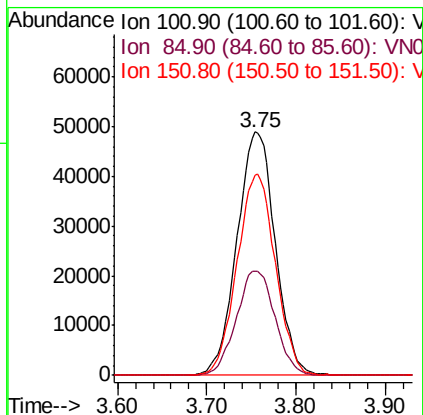
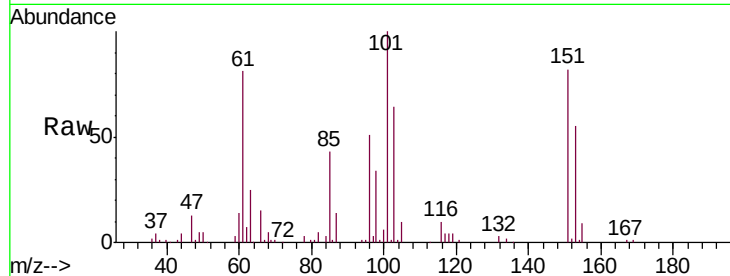
ClientSampleId :

VN0725WBSD02

Tot Ion:	101	Resp:	145588
Ion Ratio	Lower	Upper	
101	100		
85	43.2	34.2	51.2
151	82.7	66.3	99.5

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM



#10

Methyl Iodide

Concen: 18.52 ug/l

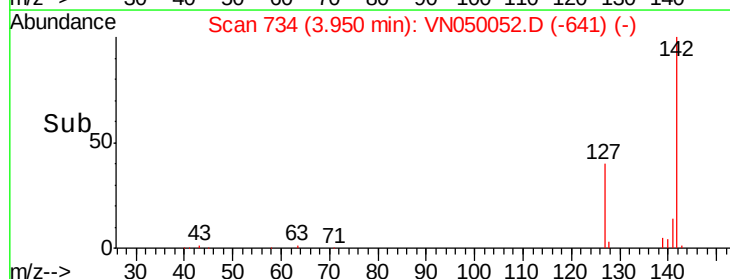
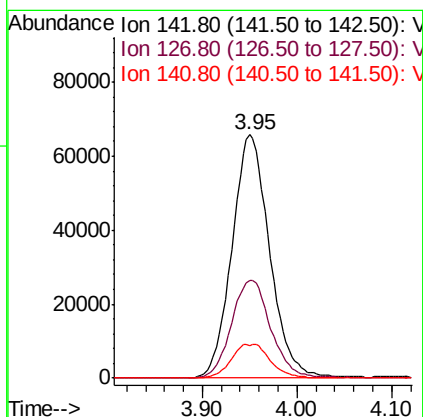
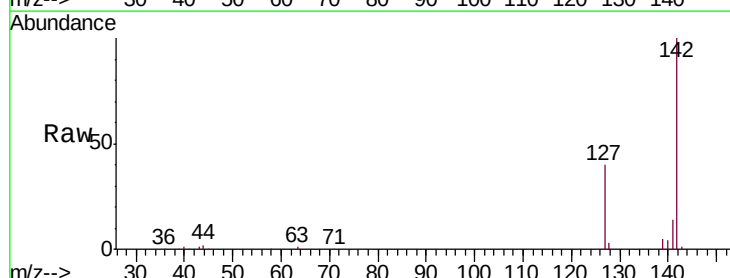
RT: 3.95 min Scan# 734

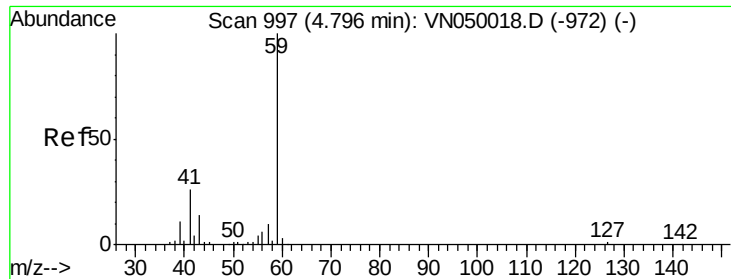
Delta R.T. -0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Tgt Ion:	142	Resp:	181746
Ion Ratio	Lower	Upper	
142	100		
127	42.1	33.4	50.2
141	14.5	11.6	17.4





#11

Tert butyl alcohol

Concen: 99.54 ug/l

RT: 4.81 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 59 Resp: 60986

Ion Ratio Lower Upper

59 100

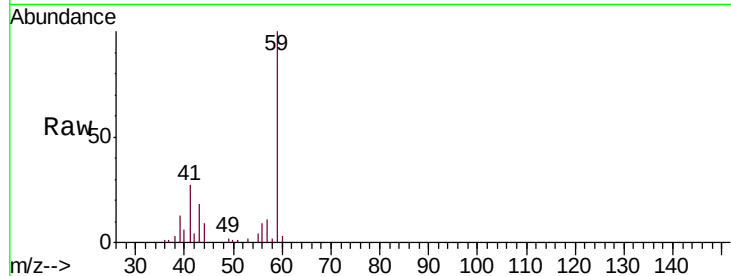
57 10.4 8.5 12.7

Manual Integrations

APPROVED

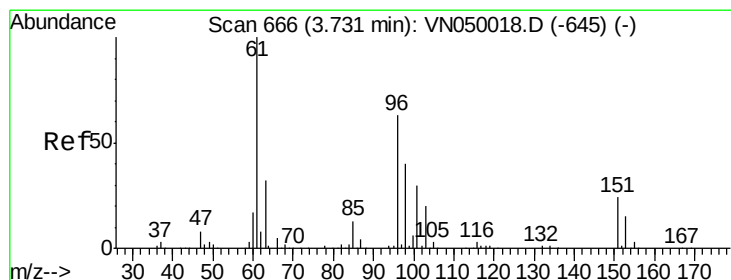
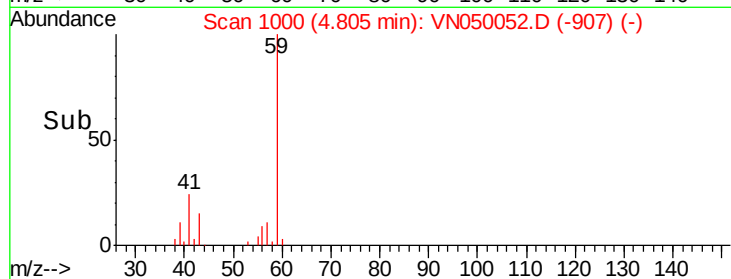
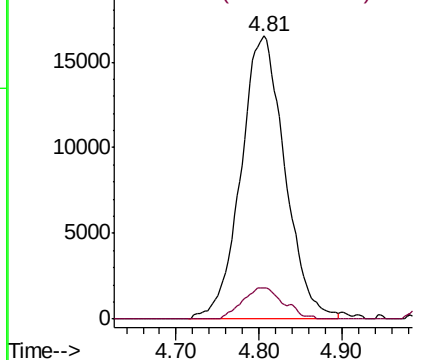
MMDadoda

7/26/2018 3:55:05 PM



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#12

1,1-Dichloroethene

Concen: 19.45 ug/l

RT: 3.73 min Scan# 667

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

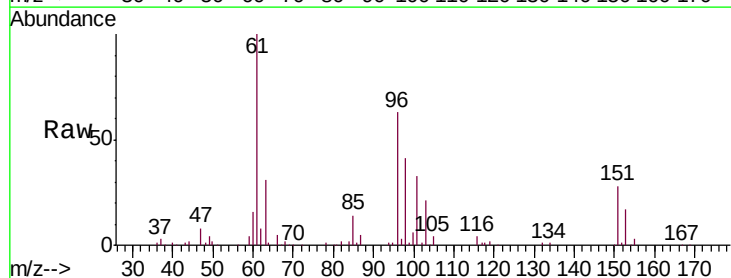
Tgt Ion: 96 Resp: 133814

Ion Ratio Lower Upper

96 100

61 159.5 124.4 186.6

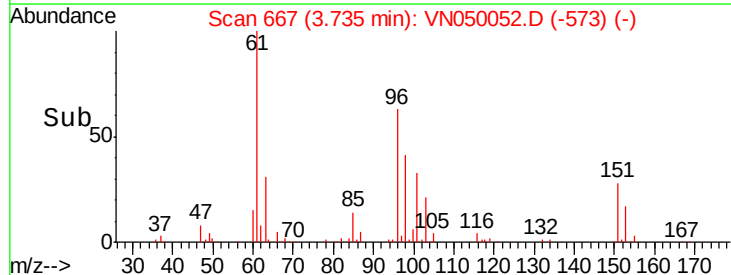
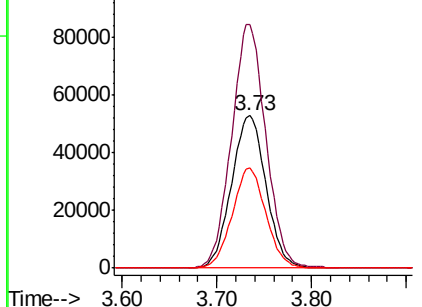
98 65.3 48.3 72.5

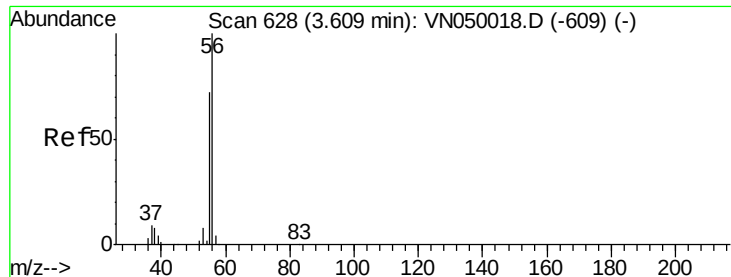


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#13

Acrolein

Concen: 73.75 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 56 Resp: 36304

Ion Ratio Lower Upper

56 100

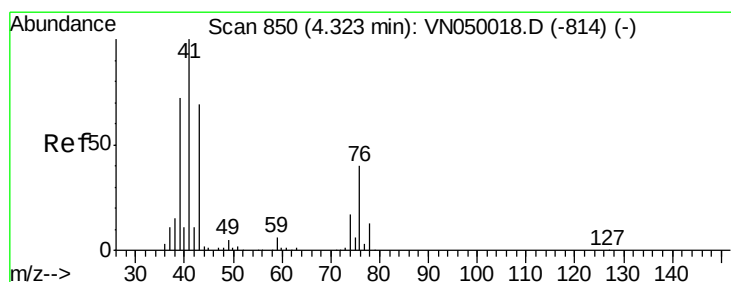
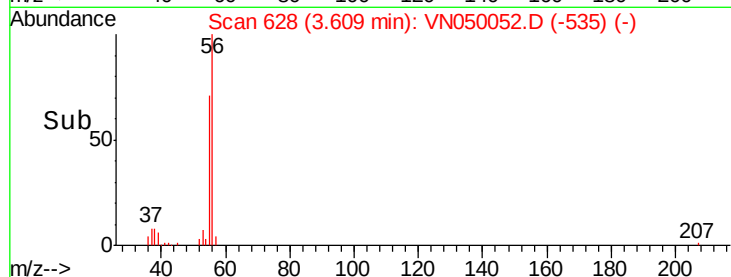
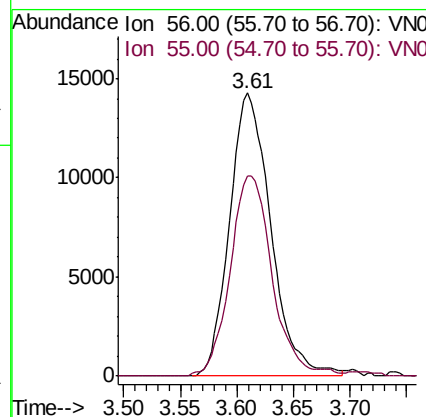
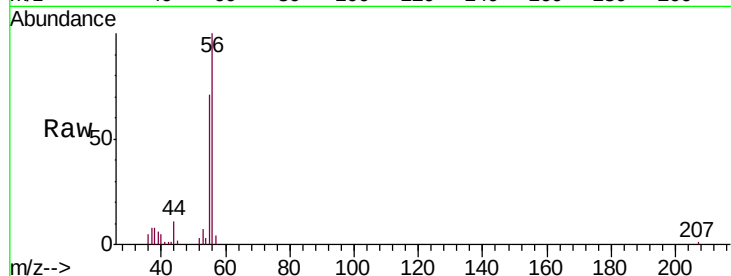
55 71.3 55.8 83.6

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:55:05 PM



#14

Allyl chloride

Concen: 19.54 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

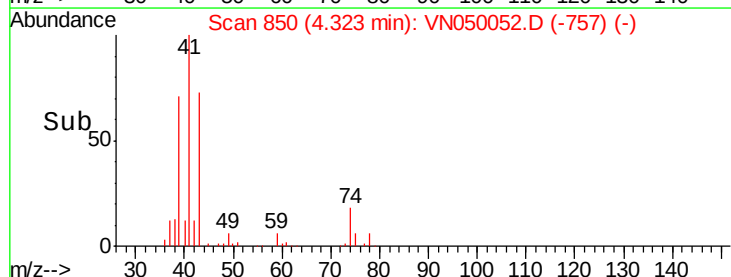
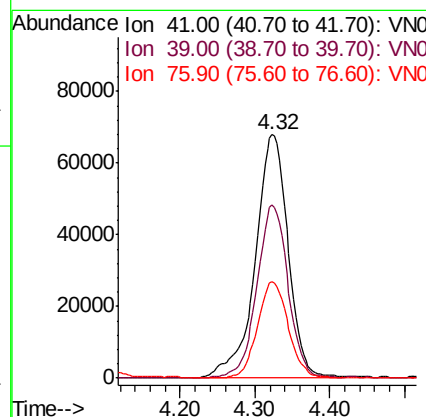
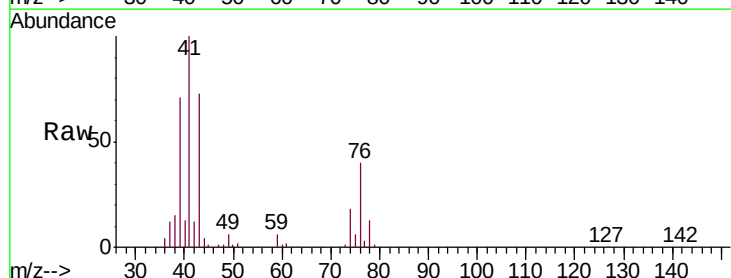
Tgt Ion: 41 Resp: 208440

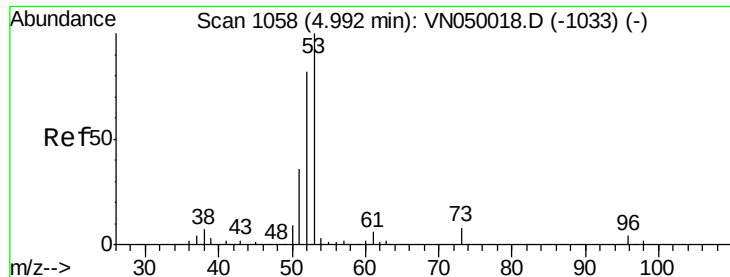
Ion Ratio Lower Upper

41 100

39 67.4 54.2 81.4

76 37.1 29.0 43.6





#15

Acrylonitrile

Concen: 98.18 ug/l

RT: 4.99 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

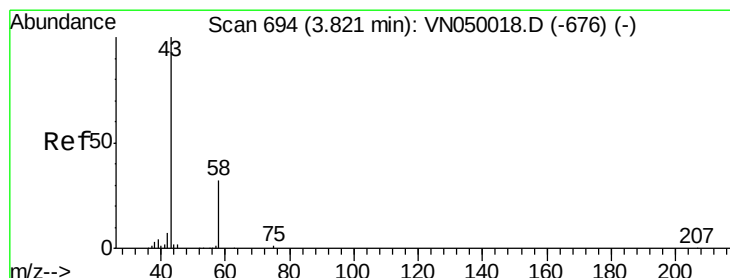
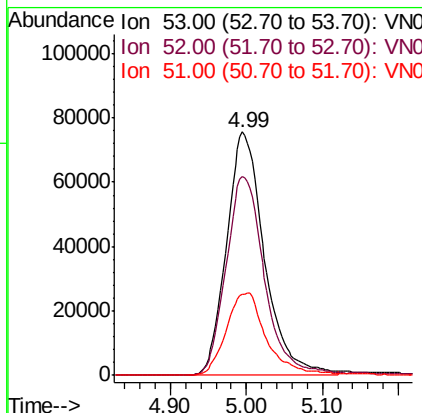
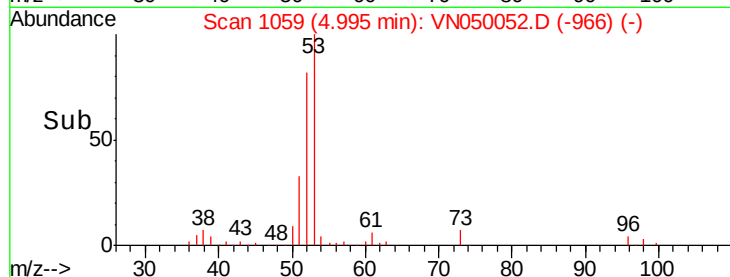
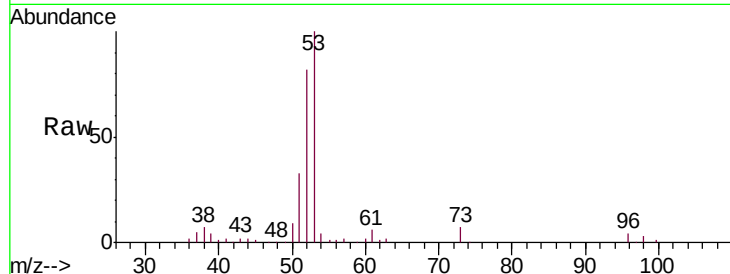
ClientSampleId :

VN0725WBSD02

Tot Ion:	53	Resp:	262441
Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.2	99.2
51	36.1	29.3	43.9

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM



#16

Acetone

Concen: 98.21 ug/l

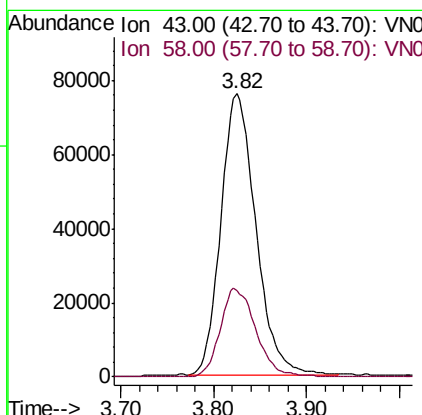
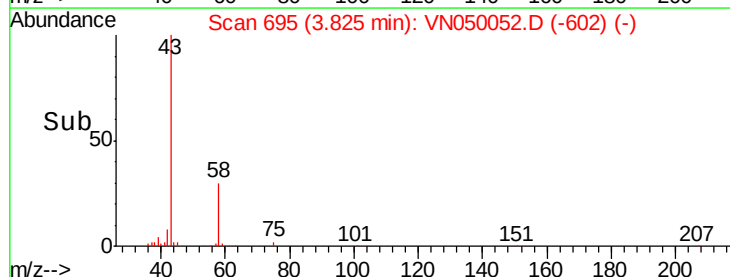
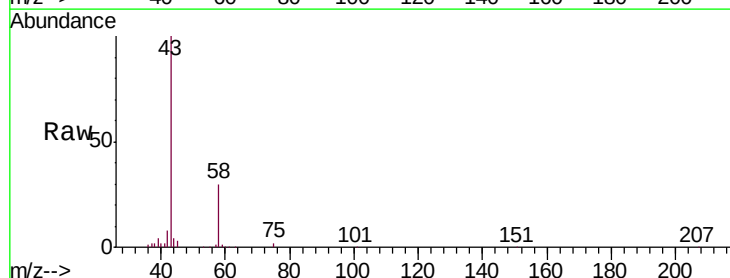
RT: 3.82 min Scan# 695

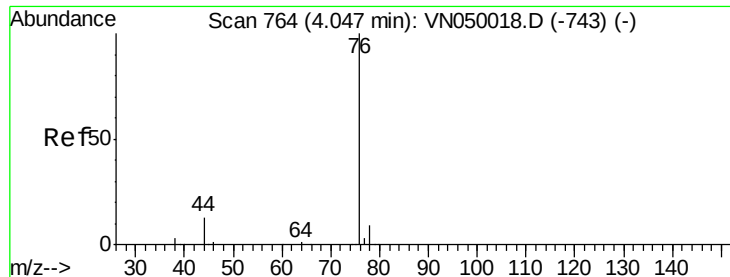
Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Tgt Ion:	43	Resp:	197793
Ion	Ratio	Lower	Upper
43	100		
58	30.6	25.8	38.8





#17

Carbon Disulfide

Concen: 18.92 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 76 Resp: 398644

Ion Ratio Lower Upper

76 100

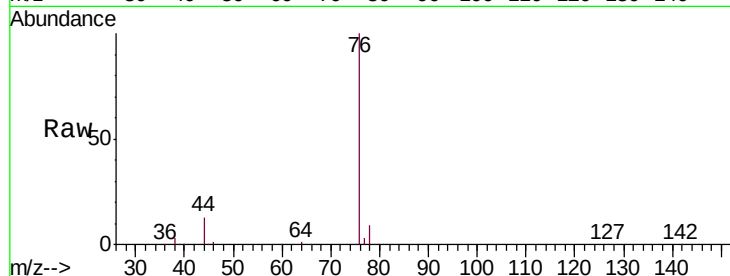
78 9.1 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:55:05 PM



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

4.05

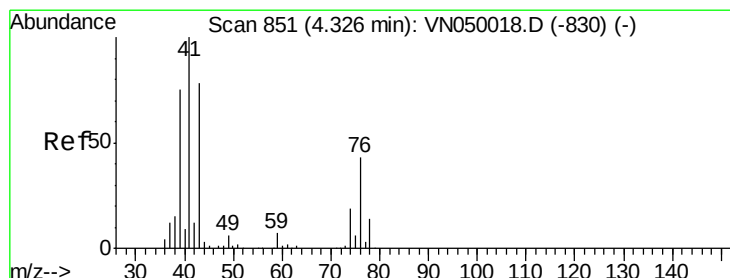
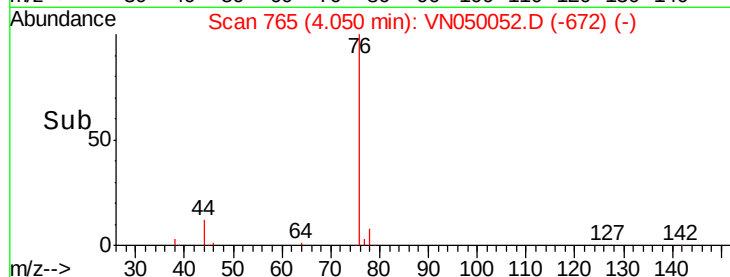
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 20.62 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050052.D

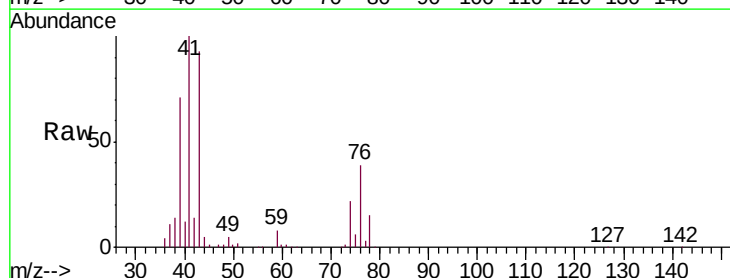
Acq: 25 Jul 2018 19:20

Tgt Ion: 43 Resp: 164637

Ion Ratio Lower Upper

43 100

74 25.0 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC

4.33

60000

50000

40000

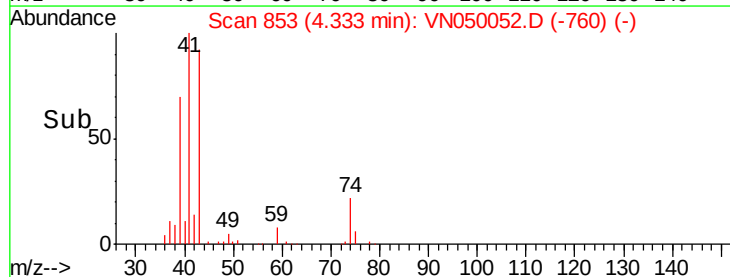
30000

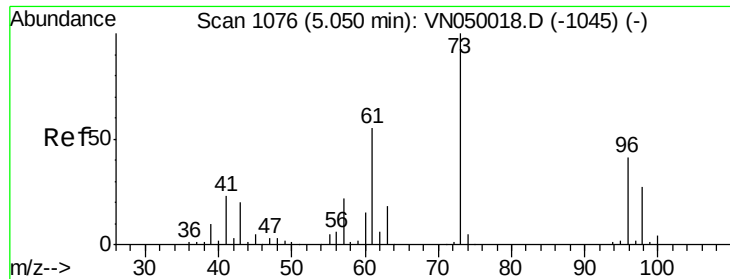
20000

10000

0

Time-->





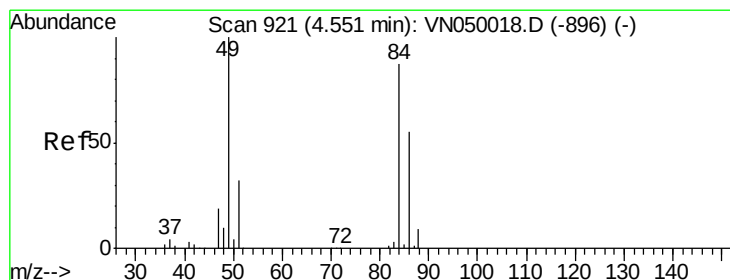
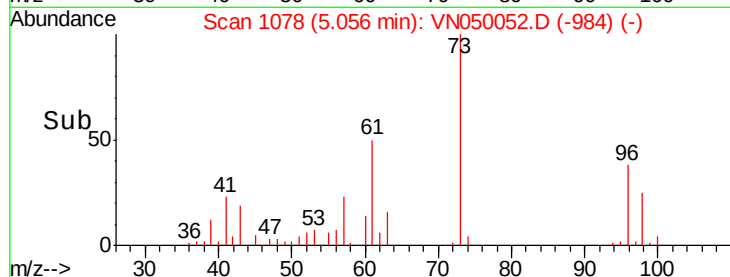
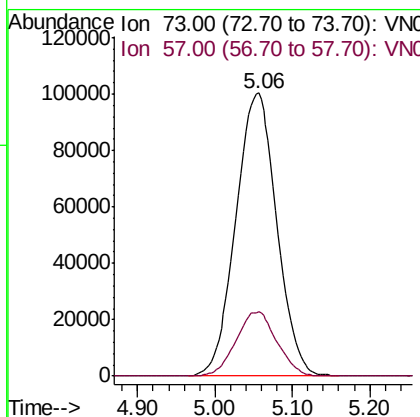
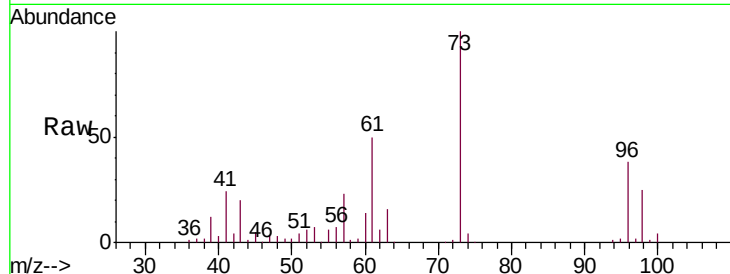
#19
Methvl tert-butvl Ether
Concen: 20.17 ug/l
RT: 5.06 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion: 73 Resp: 369652
Ion Ratio Lower Upper
73 100
57 22.6 18.0 27.0

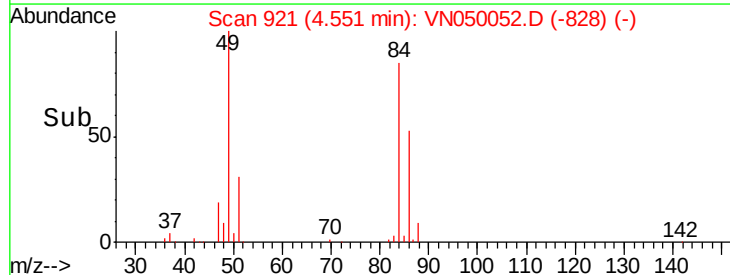
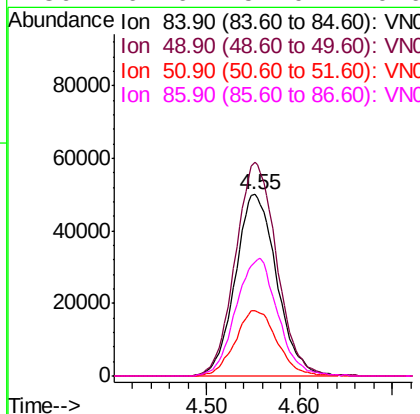
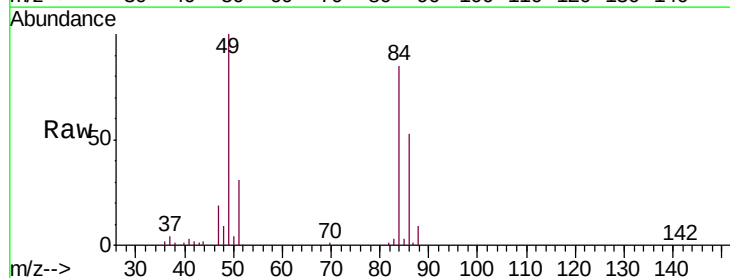
Manual Integrations
APPROVED

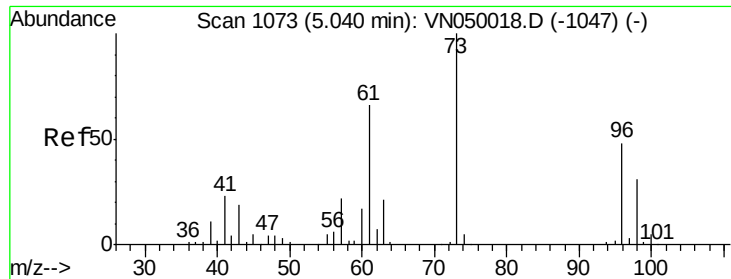
MMDadoda
7/26/2018 3:55:05 PM



#20
Methylene Chloride
Concen: 20.30 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion: 84 Resp: 155337
Ion Ratio Lower Upper
84 100
49 117.8 94.8 142.2
51 36.0 28.3 42.5
86 62.6 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 19.76 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 96 Resp: 144023

Ion Ratio Lower Upper

96 100

61 137.4 110.7 166.1

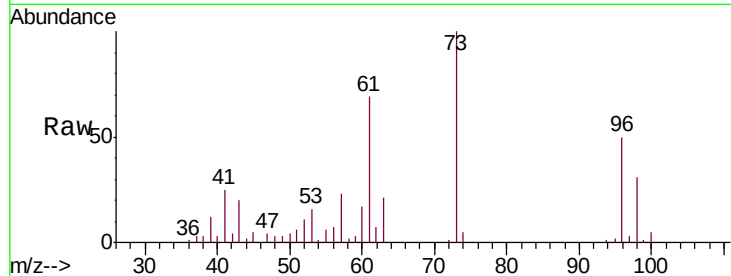
98 62.0 51.6 77.4

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:55:05 PM

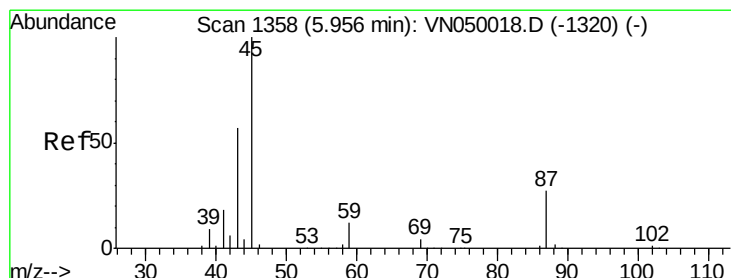
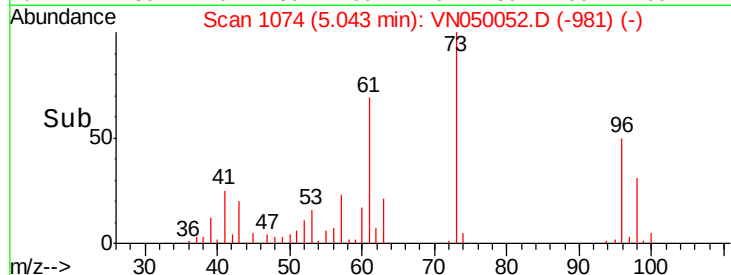
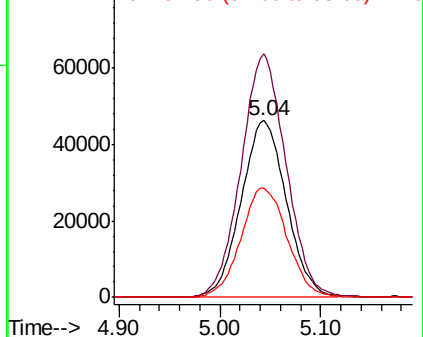


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 20.96 ug/l

RT: 5.96 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Tgt Ion: 45 Resp: 443293

Ion Ratio Lower Upper

45 100

43 59.9 45.7 68.5

87 29.0 22.7 34.1

59 11.7 9.5 14.3

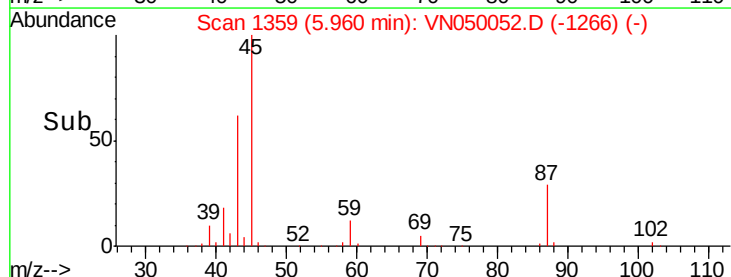
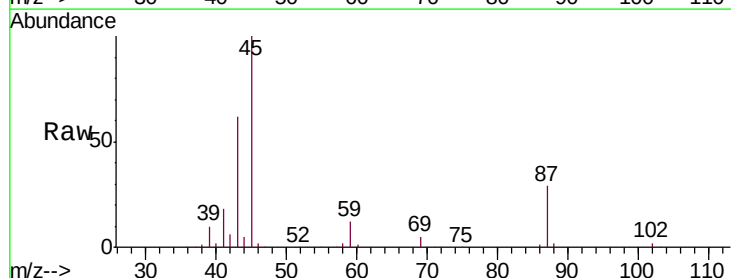
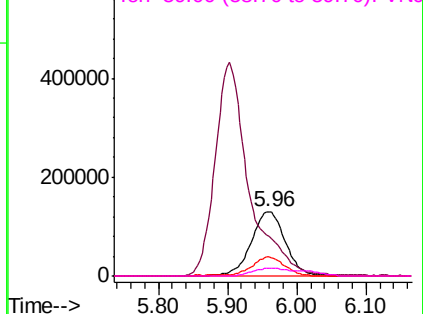
Abundance

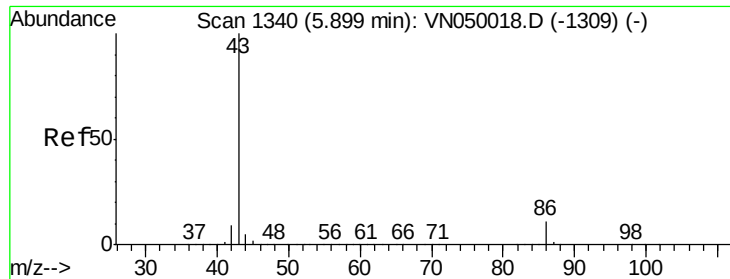
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





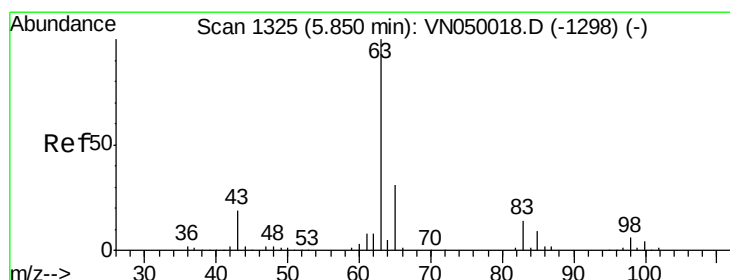
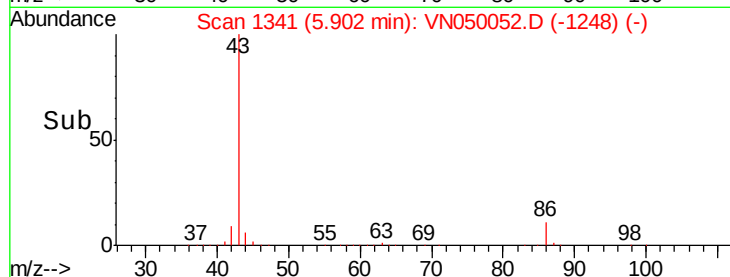
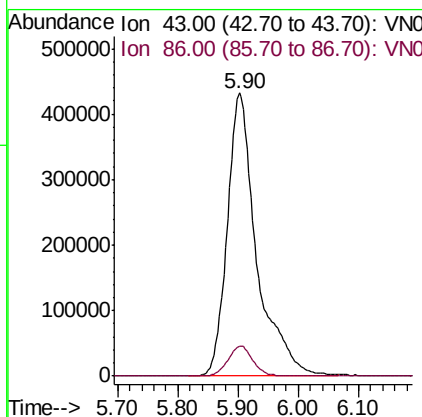
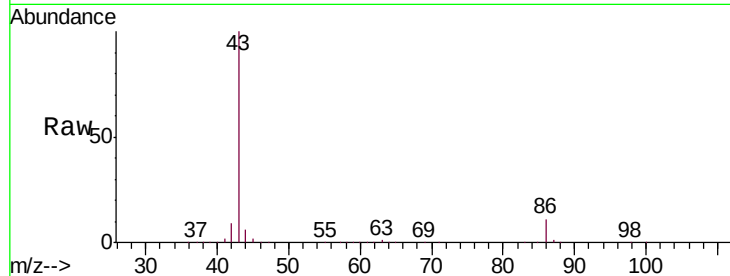
#23
Vinyl Acetate
Concen: 98.61 ug/l
RT: 5.90 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleID :
VN0725WBSD02

Tot Ion: 43 Resp: 1473705
Ion Ratio Lower Upper
43 100
86 10.6 8.6 13.0

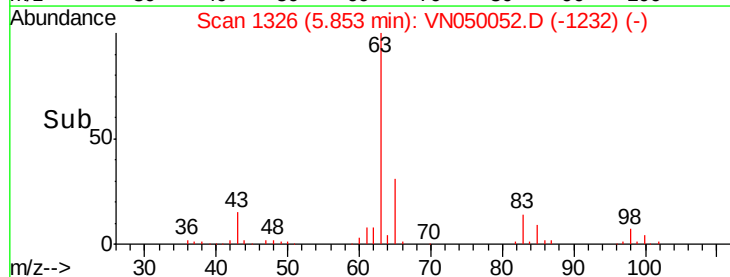
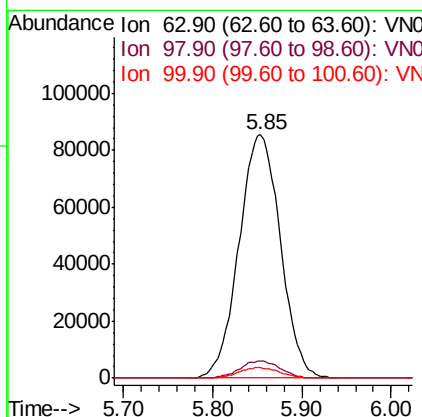
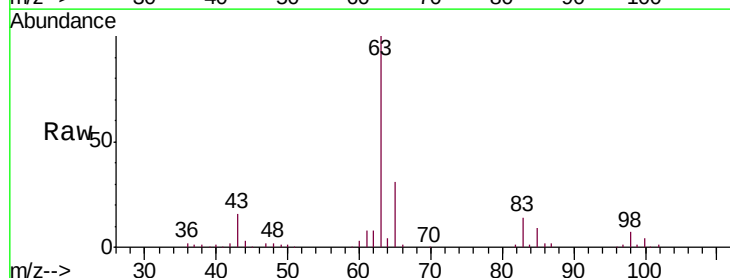
Manual Integrations
APPROVED

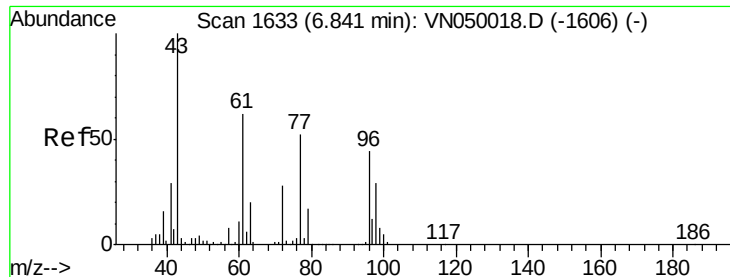
MMDadoda
7/26/2018 3:55:05 PM



#24
1,1-Dichloroethane
Concen: 19.90 ug/l
RT: 5.85 min Scan# 1326
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion: 63 Resp: 275182
Ion Ratio Lower Upper
63 100
98 7.0 3.3 9.8
100 4.1 2.1 6.3





#25

2-Butanone

Concen: 98.36 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 43 Resp: 312375

Ion Ratio Lower Upper

43 100

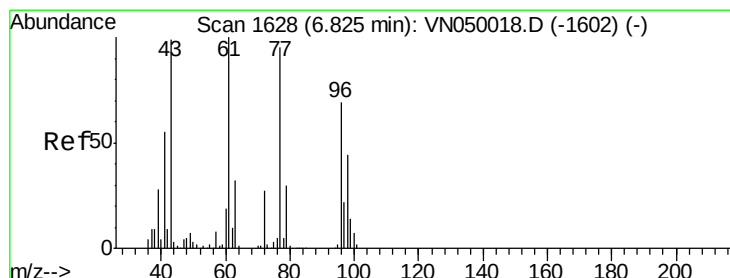
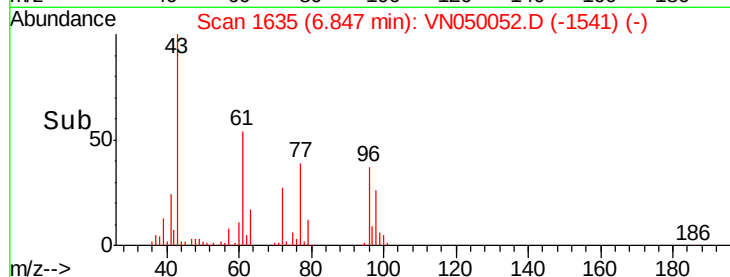
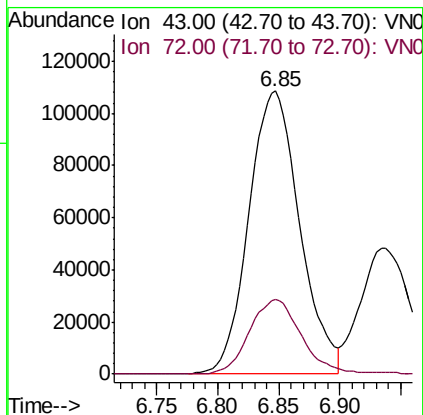
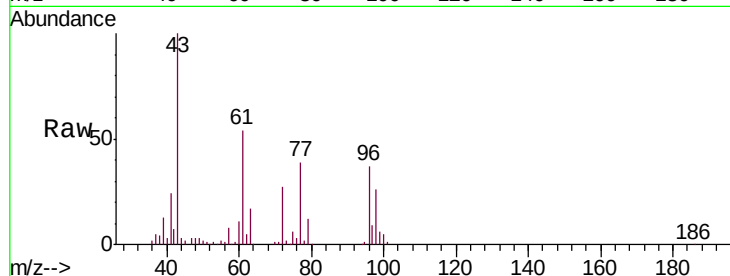
72 26.7 21.5 32.3

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:55:05 PM



#26

2,2-Dichloropropane

Concen: 18.60 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050052.D

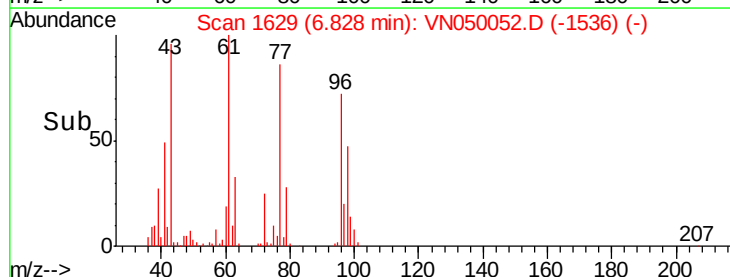
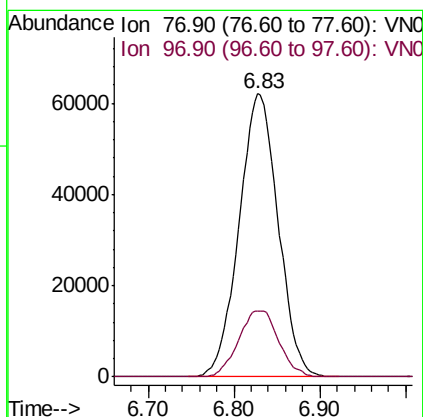
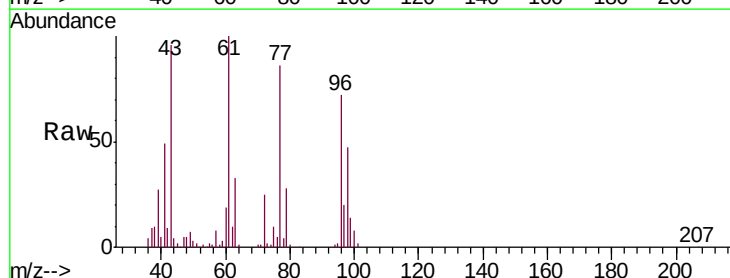
Acq: 25 Jul 2018 19:20

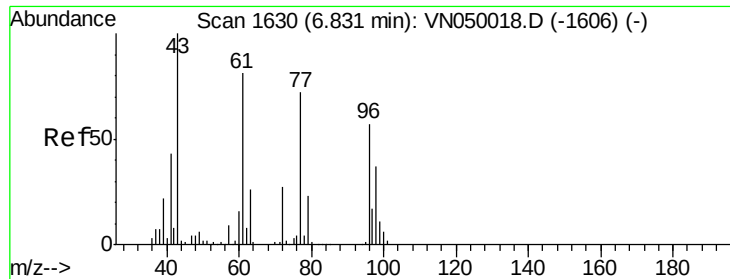
Tgt Ion: 77 Resp: 195713

Ion Ratio Lower Upper

77 100

97 24.1 11.8 35.3





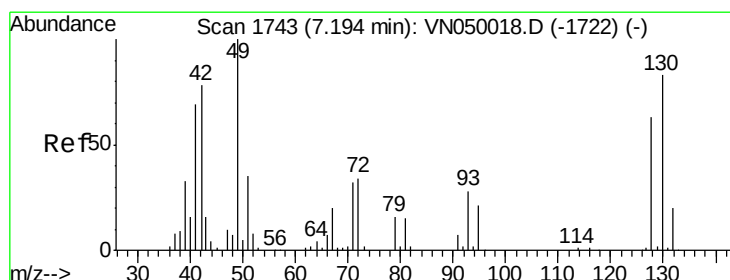
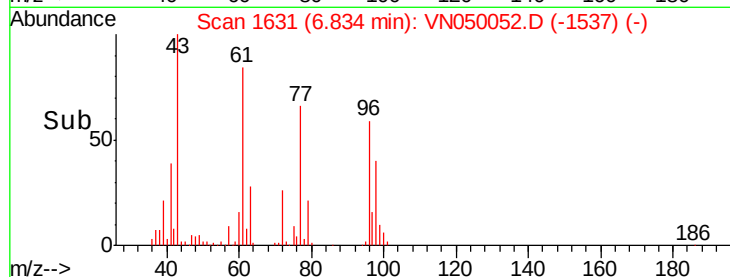
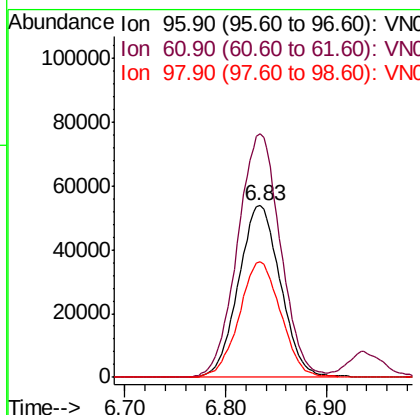
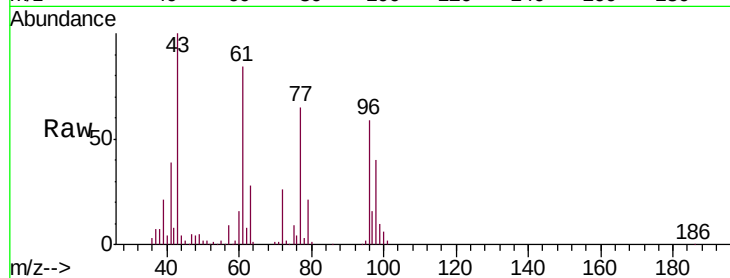
#27
 cis-1,2-Dichloroethene
 Concen: 19.83 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.7	0.0	285.0
98	66.7	0.0	129.2

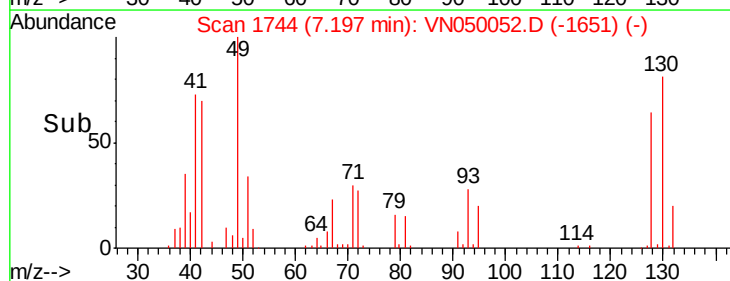
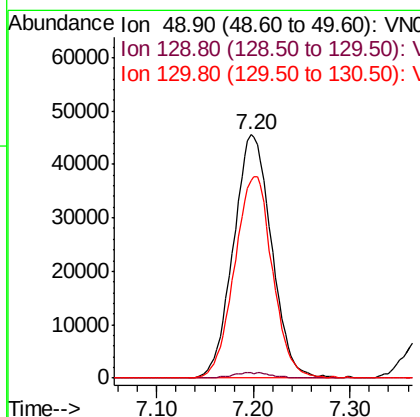
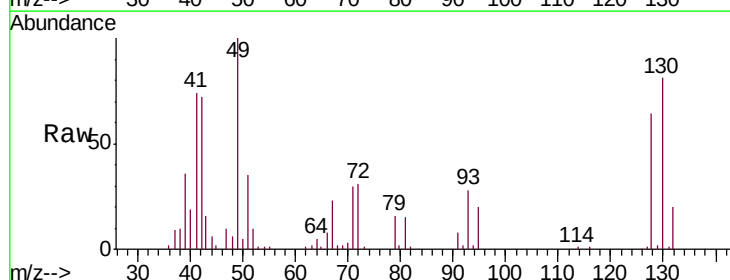
Manual Integrations
 APPROVED

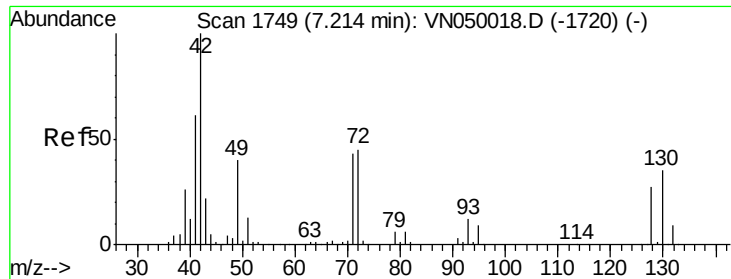
MMDadoda
 7/26/2018 3:55:05 PM



#28
 Bromochloromethane
 Concen: 19.76 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.0
130	82.6	66.3	99.5





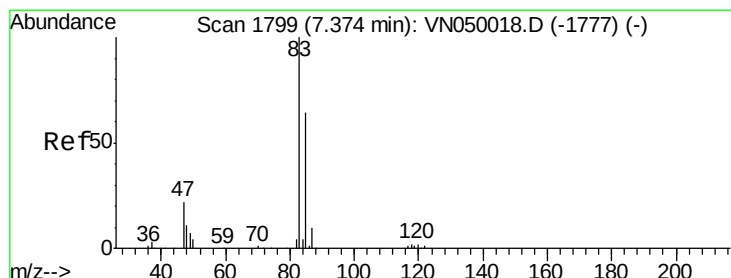
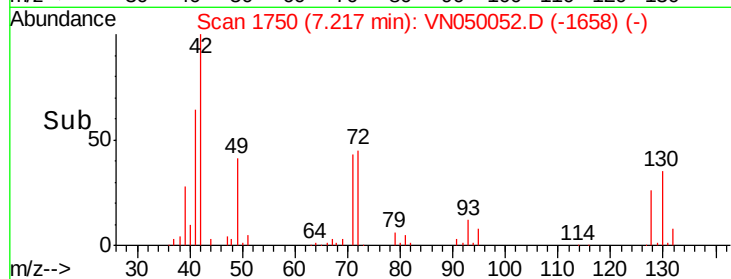
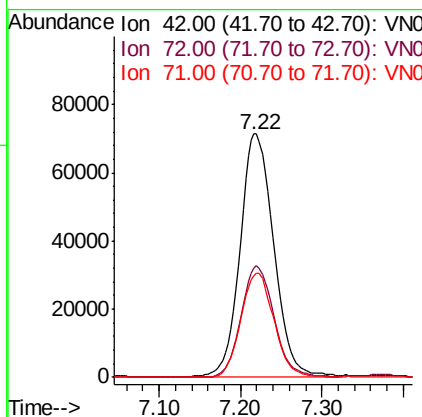
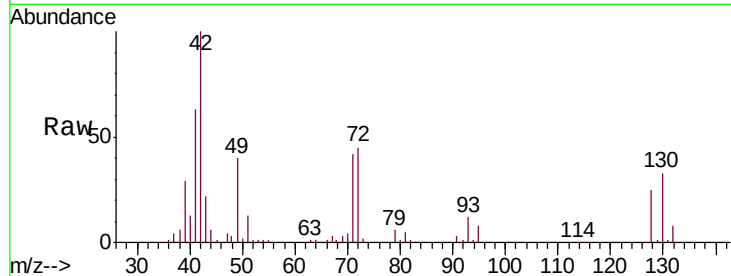
#29
Tetrahydrofuran
Concen: 98.32 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.0	35.9	53.9
71	42.4	33.7	50.5

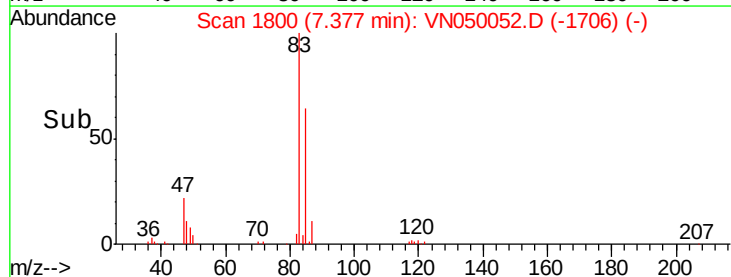
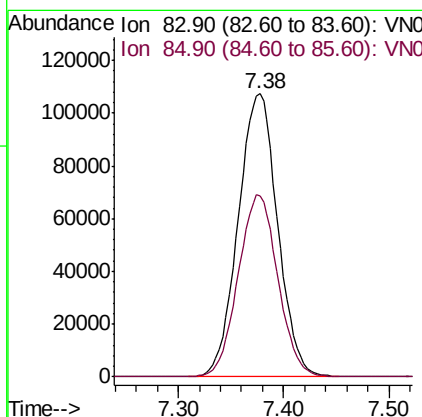
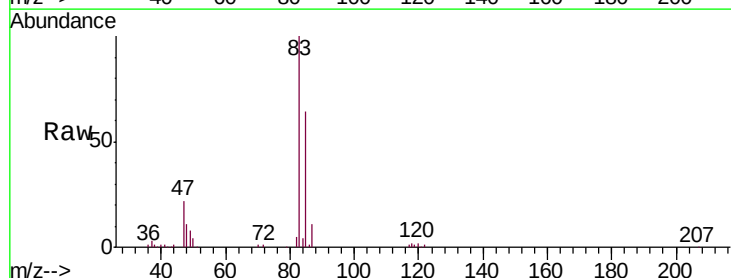
Manual Integrations
APPROVED

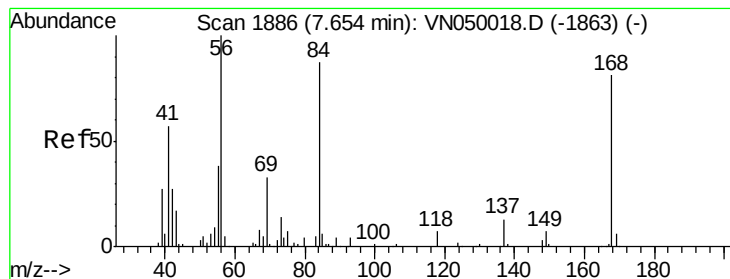
MMDadoda
7/26/2018 3:55:05 PM



#30
Chloroform
Concen: 19.78 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.5	78.7





#31

Cyclohexane

Concen: 19.47 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

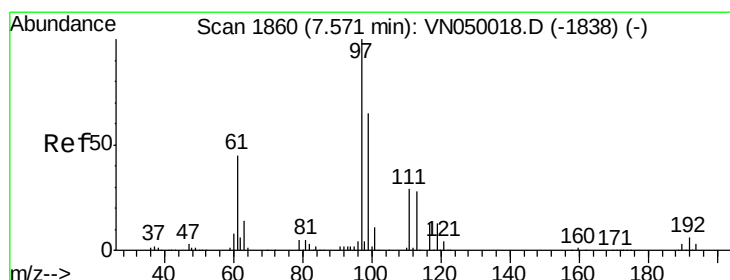
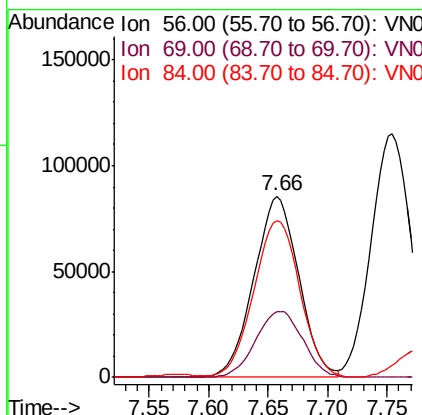
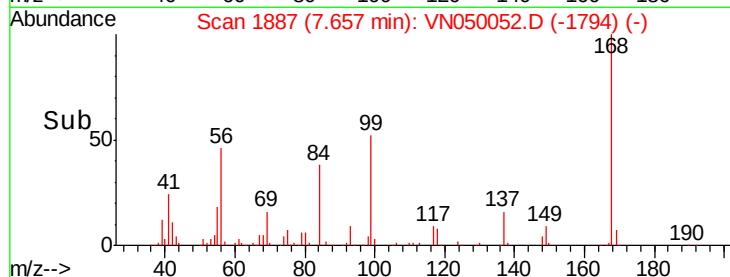
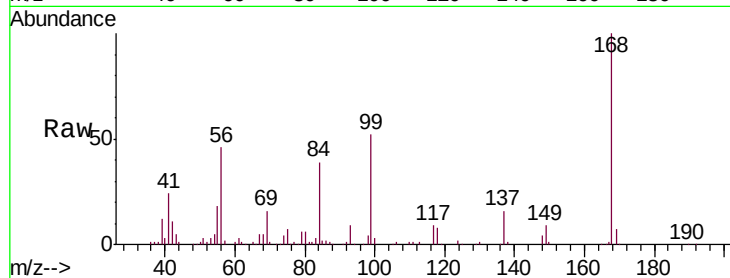
ClientSampleId :

VN0725WBSD02

Tot Ion:	56	Resp:	223747
Ion	Ratio	Lower	Upper
56	100		
69	35.9	26.2	39.4
84	85.1	67.4	101.0

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM



#32

1,1,1-Trichloroethane

Concen: 19.68 ug/l

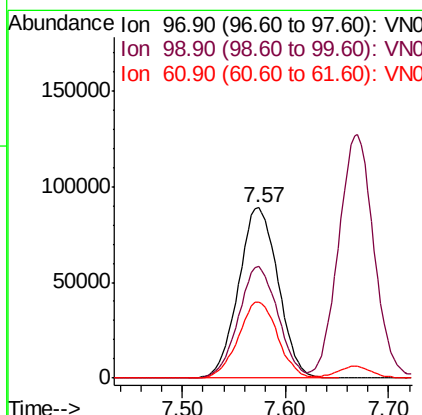
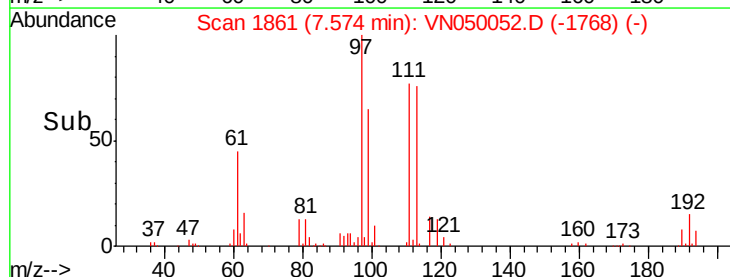
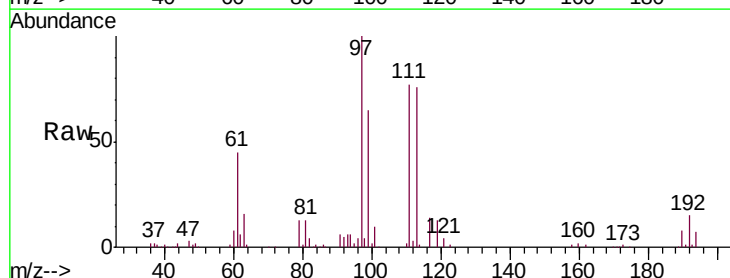
RT: 7.57 min Scan# 1861

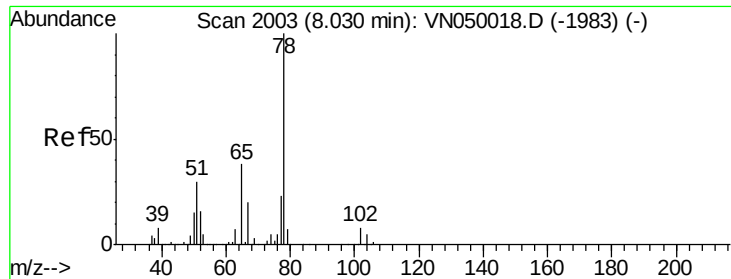
Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Tgt Ion:	97	Resp:	237525
Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.4	77.0
61	44.4	35.4	53.0





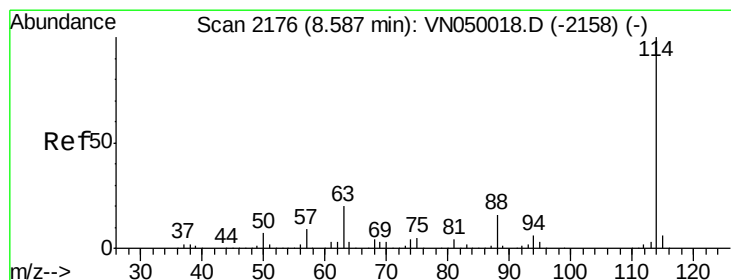
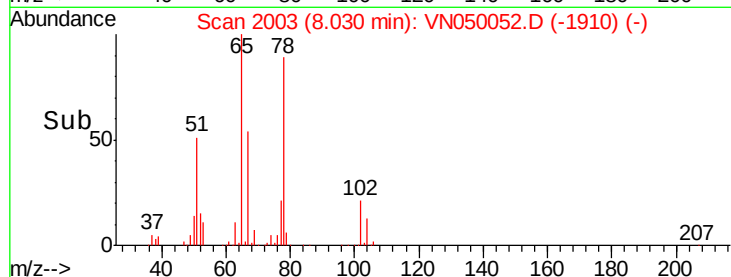
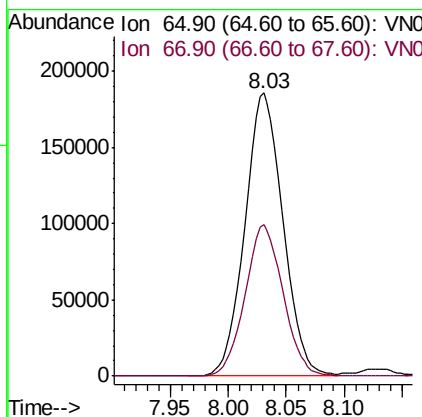
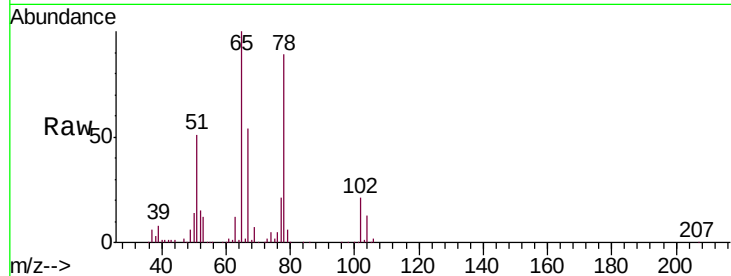
#33
 1,2-Dichloroethane-d4
 Concen: 51.07 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.5	0.0	108.4	

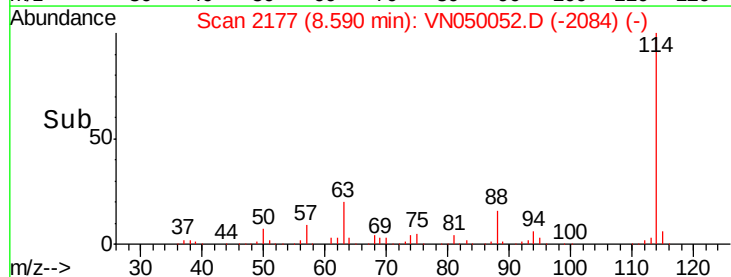
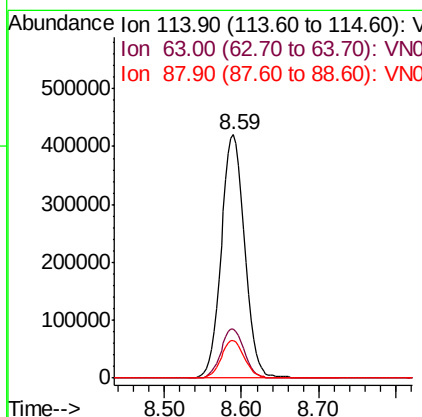
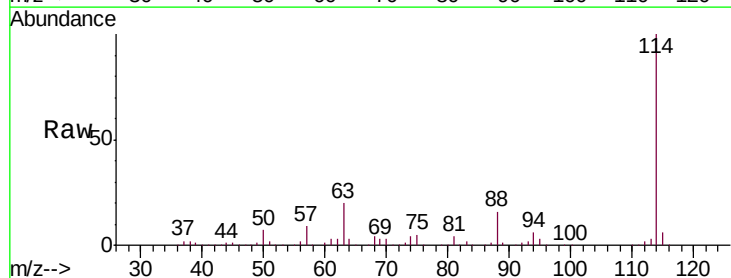
Manual Integrations
 APPROVED

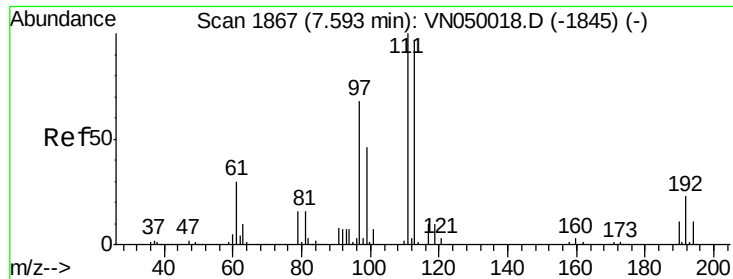
MMDadoda
 7/26/2018 3:55:05 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. -0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.1	0.0	40.0	
88	15.7	0.0	31.2	





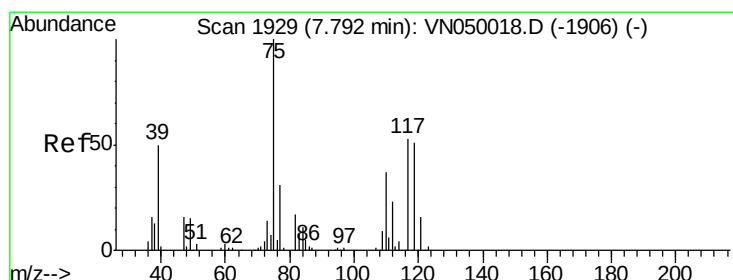
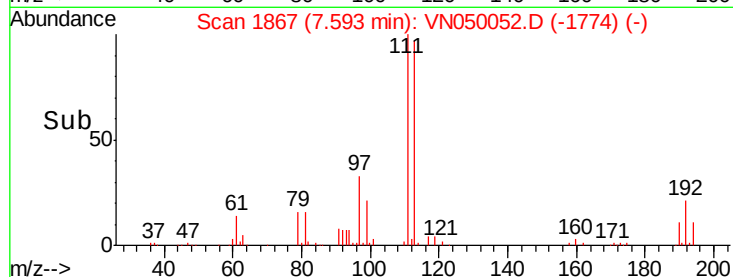
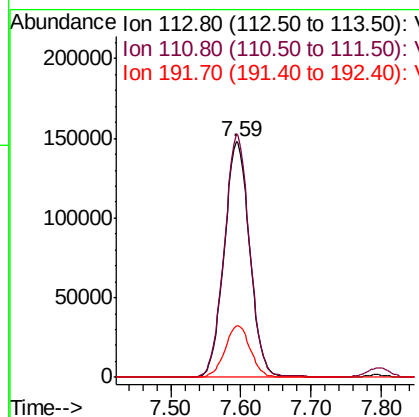
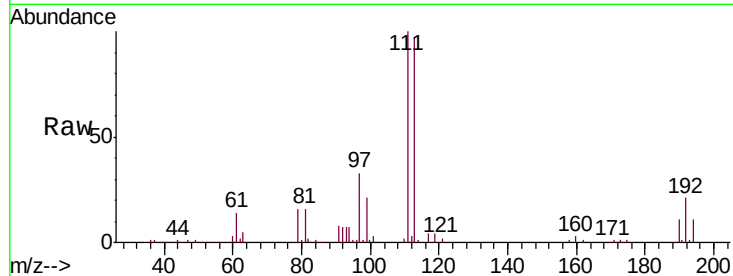
#35
 Dibromofluoromethane
 Concen: 51.87 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	374461		
111	102.3	80.7	121.1	
192	21.8	17.8	26.6	

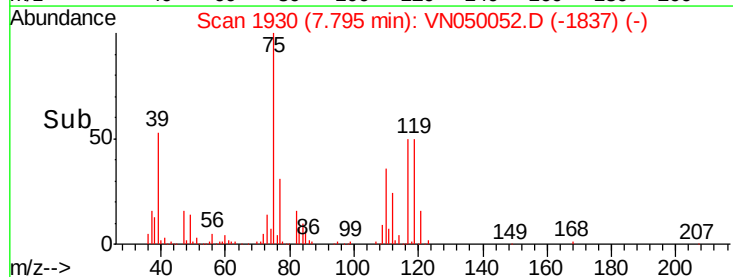
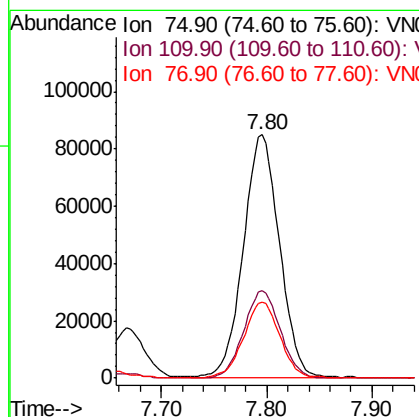
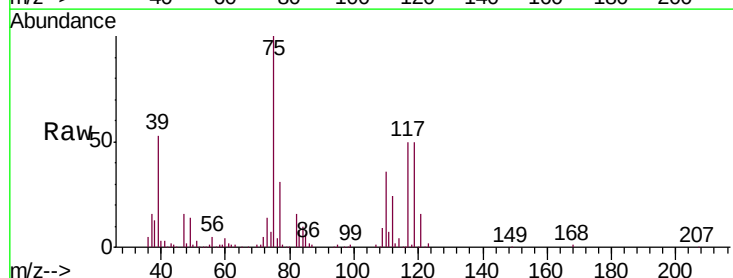
Manual Integrations
 APPROVED

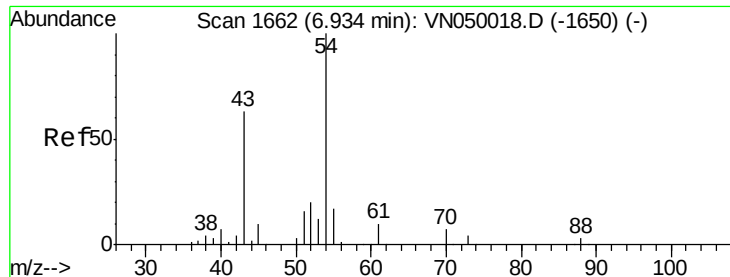
MMDadoda
 7/26/2018 3:55:05 PM



#36
 1,1-Dichloropropene
 Concen: 20.23 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	201482		
110	36.4	18.4	55.2	
77	31.9	25.3	37.9	





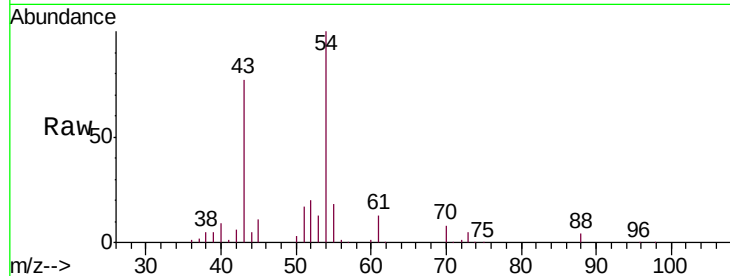
#37
Ethyl Acetate
Concen: 20.10 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. -0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.8	17.8
70	10.0	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM

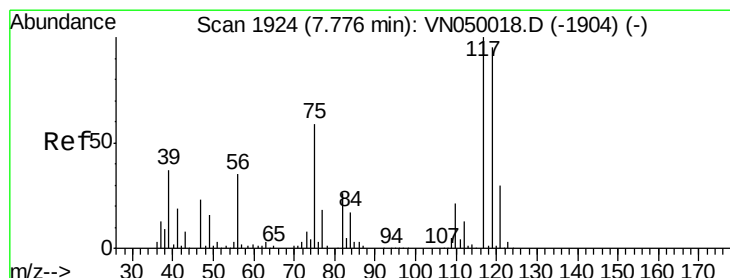
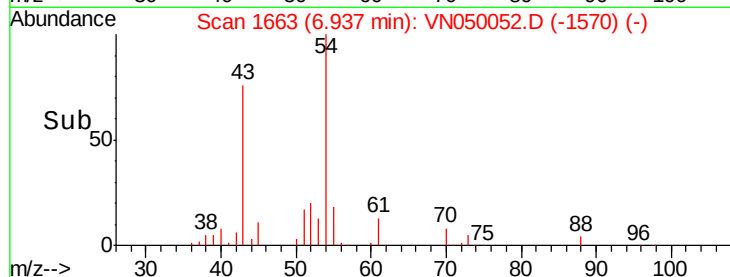
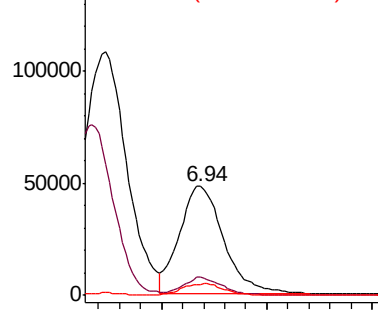


Abundance

Ion 43.00 (42.70 to 43.70): VN0

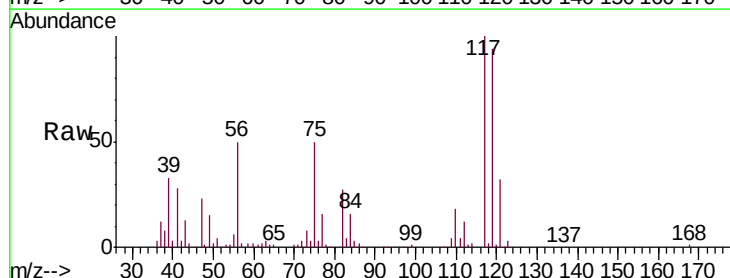
Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0



#38
Carbon Tetrachloride
Concen: 19.82 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.3	77.4	116.0
121	32.1	23.9	35.9

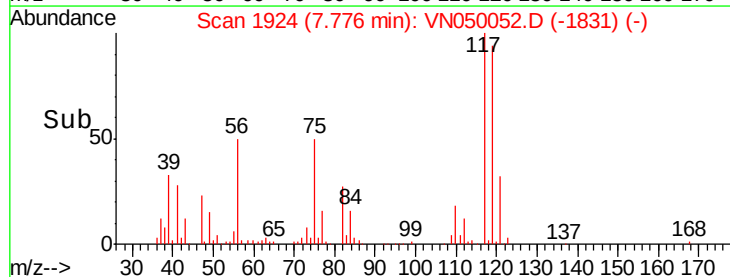
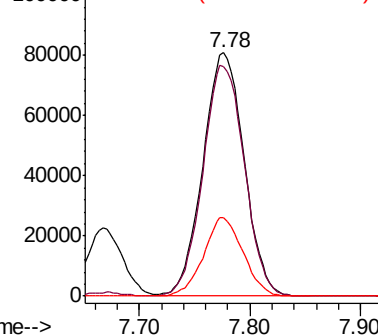


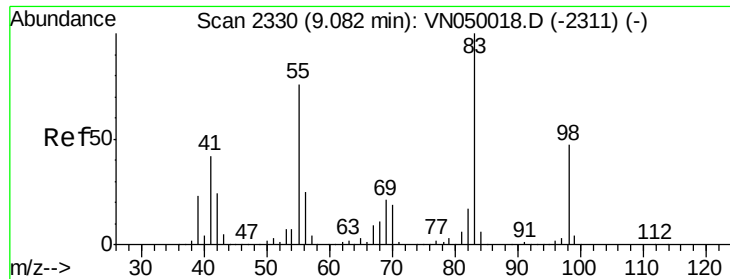
Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





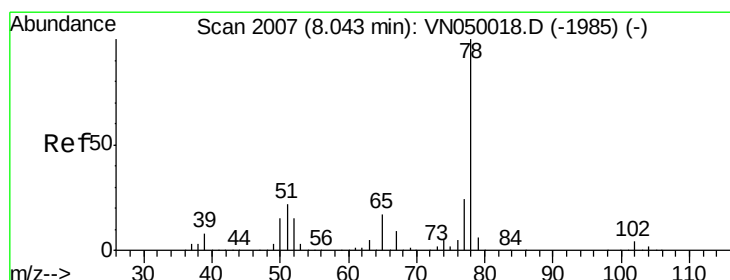
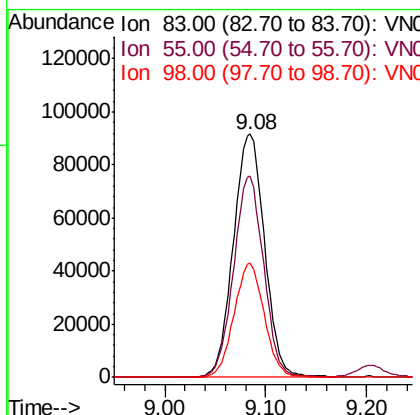
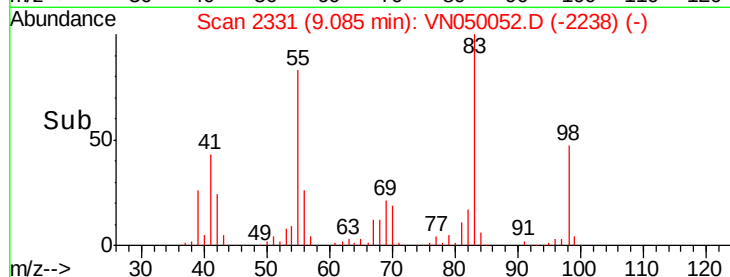
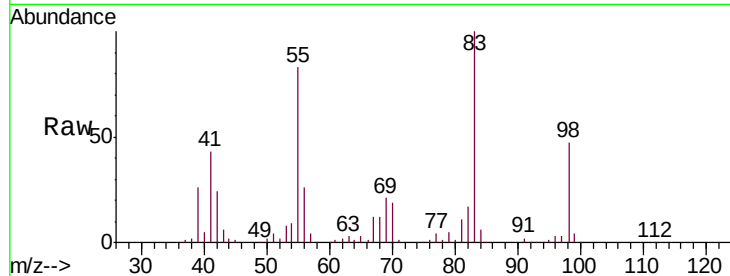
#39
Methylvlcyclohexane
Concen: 19.23 ug/l
RT: 9.08 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	83.00	Resp	197022
Ion Ratio	100	Lower	Upper
83	100		
55	82.8	61.8	92.8
98	46.9	36.5	54.7

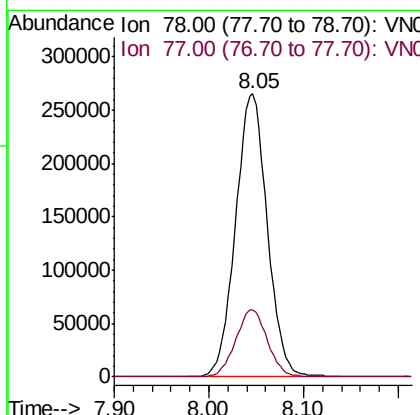
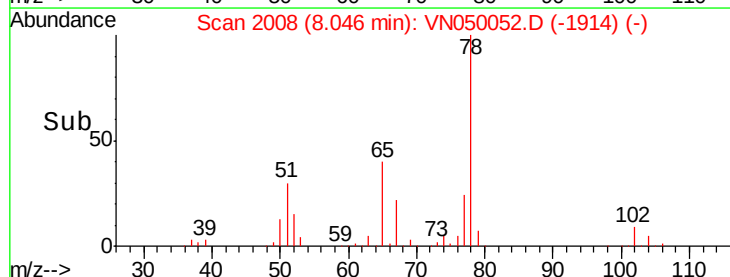
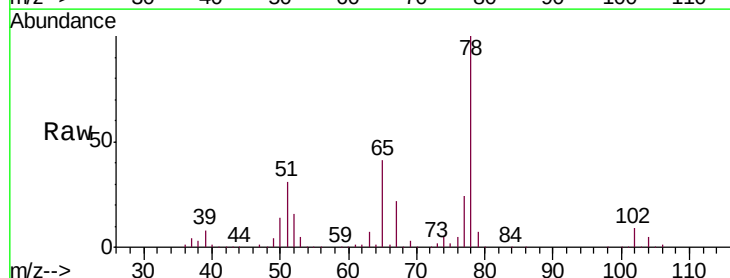
Manual Integrations
APPROVED

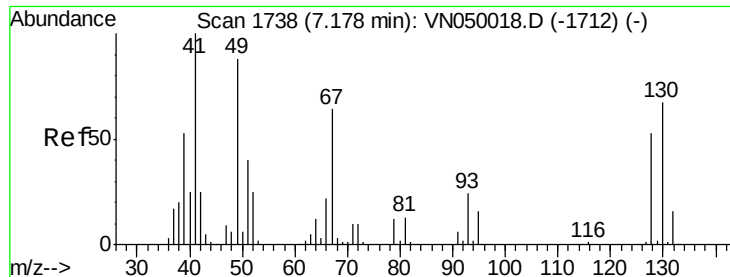
MMDadoda
7/26/2018 3:55:05 PM



#40
Benzene
Concen: 20.34 ug/l
RT: 8.05 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	78.00	Resp	616674
Ion Ratio	100	Lower	Upper
78	100		
77	23.7	18.7	28.1





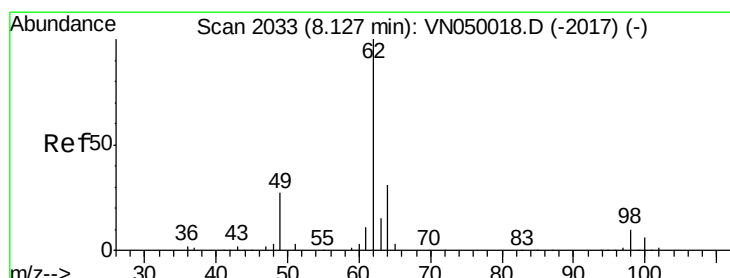
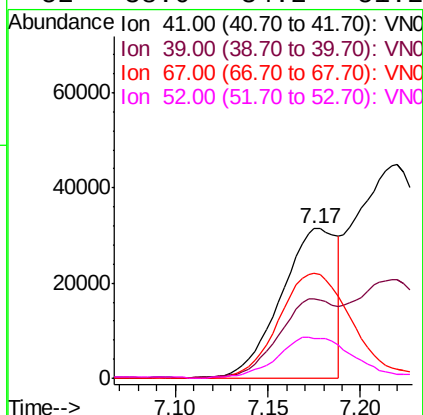
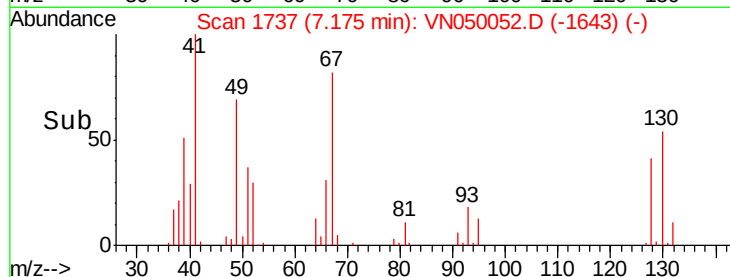
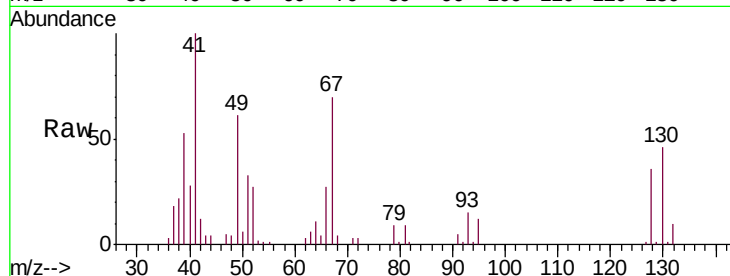
#41
Methacrylonitrile
Concen: 20.07 ug/l
RT: 7.17 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.1	55.8	83.6#
67	93.1	84.3	126.5
52	38.0	34.2	51.2

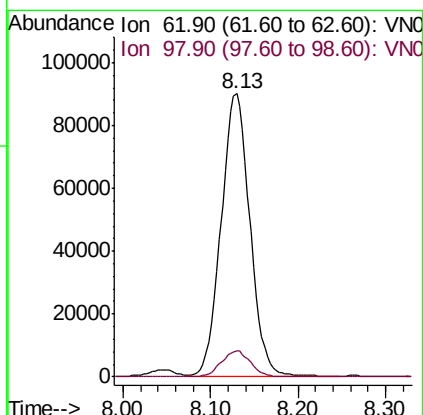
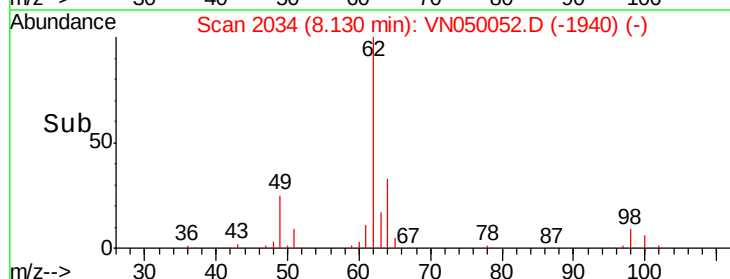
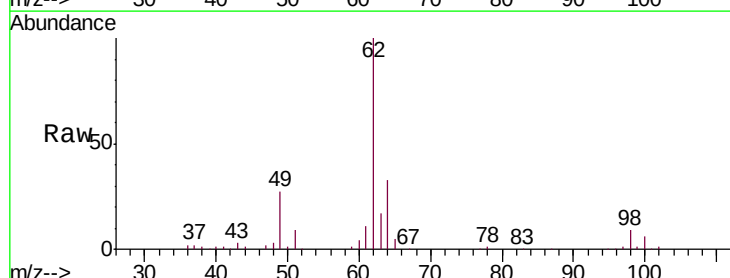
Manual Integrations
APPROVED

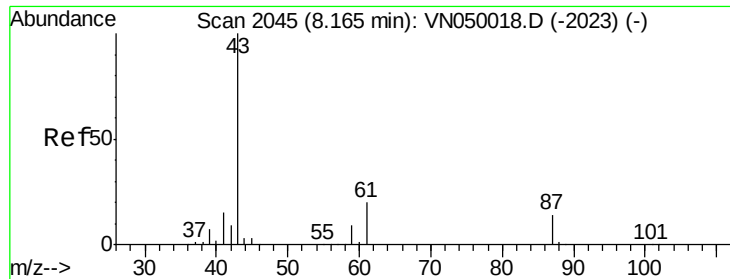
MMDadoda
7/26/2018 3:55:05 PM



#42
1,2-Dichloroethane
Concen: 20.32 ug/l
RT: 8.13 min Scan# 2034
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.8





#43

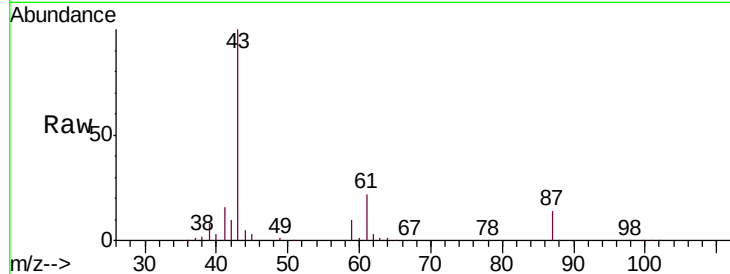
Isopropyl Acetate
 Concen: 18.81 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

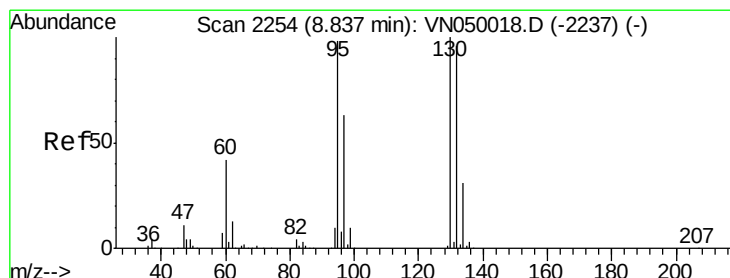
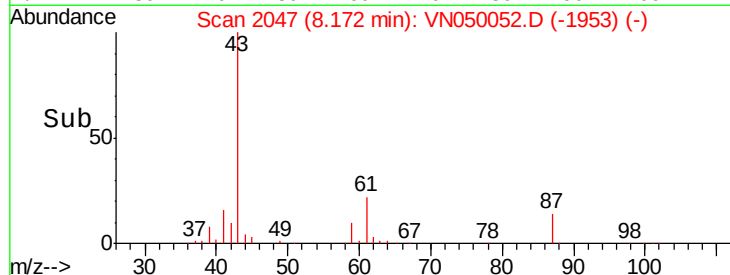
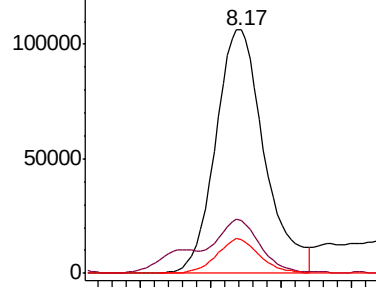
Tot Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.8	23.6
87	12.6	10.3	15.5

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:55:05 PM



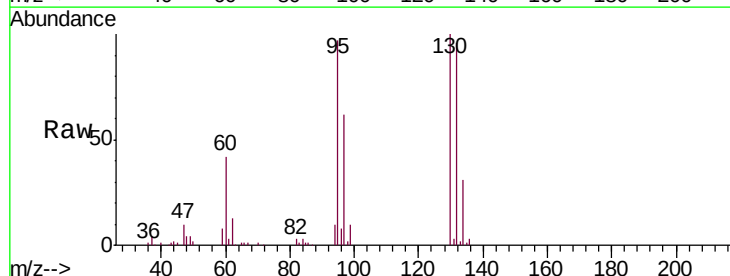
Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-2023) (-)
 Ion 61.00 (60.70 to 61.70): VN050018.D (-2023) (-)
 Ion 87.00 (86.70 to 87.70): VN050018.D (-2023) (-)



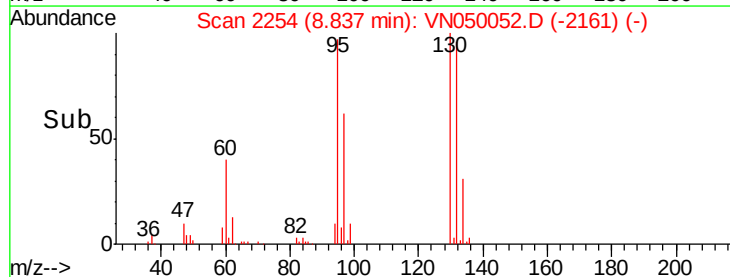
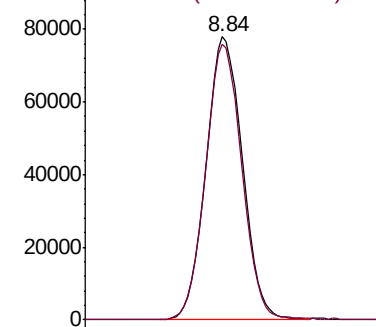
#44

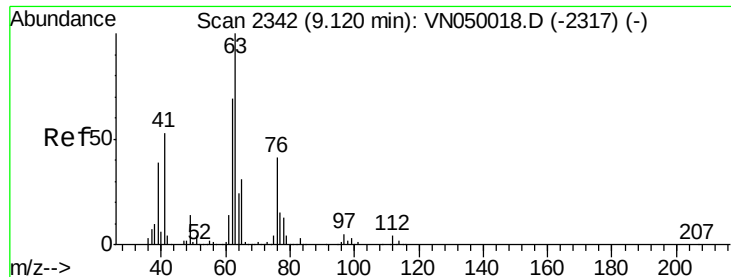
Trichloroethene
 Concen: 19.76 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	194.6



Abundance Ion 129.80 (129.50 to 130.50): VN050018.D (-2237) (-)
 Ion 94.90 (94.60 to 95.60): VN050018.D (-2237) (-)





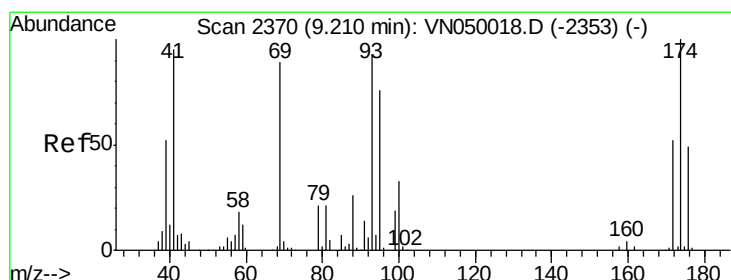
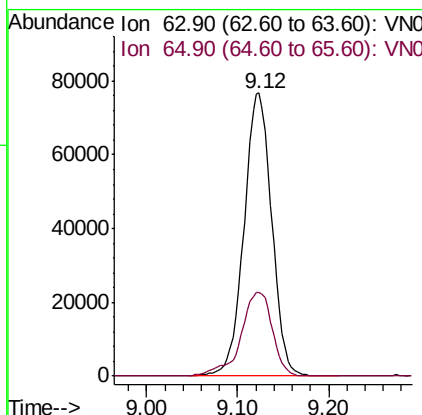
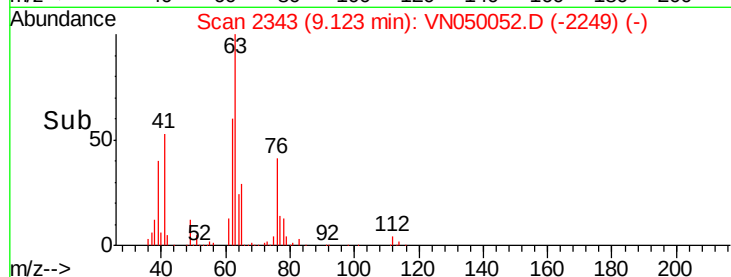
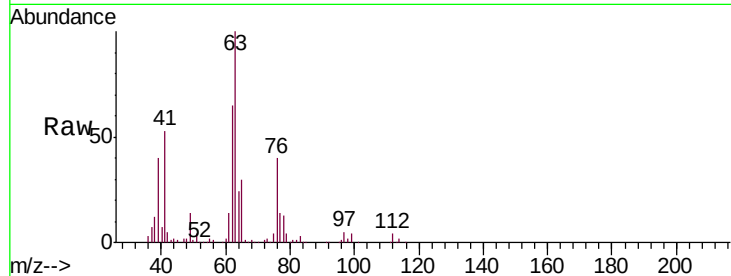
#45
 1,2-Dichloropropane
 Concen: 20.23 ug/l
 RT: 9.12 min Scan# 2343
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.5	25.5	38.3

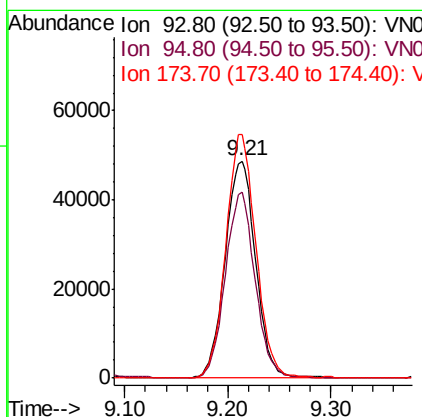
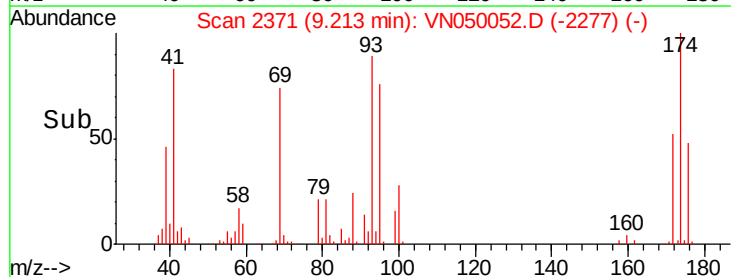
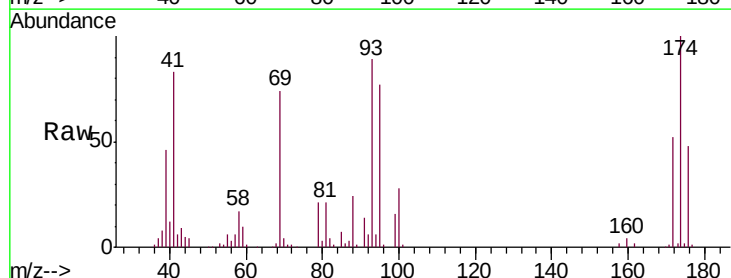
Manual Integrations
 APPROVED

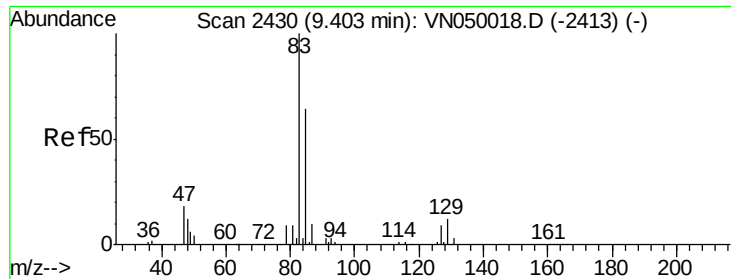
MMDadoda
 7/26/2018 3:55:05 PM



#46
 Dibromomethane
 Concen: 20.23 ug/l
 RT: 9.21 min Scan# 2371
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.3	66.6	100.0
174	109.8	87.1	130.7





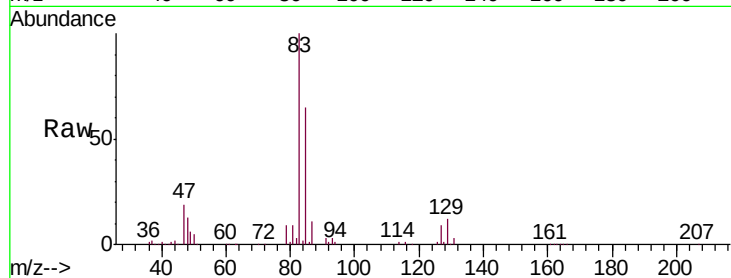
#47
Bromodichloromethane
Concen: 20.05 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

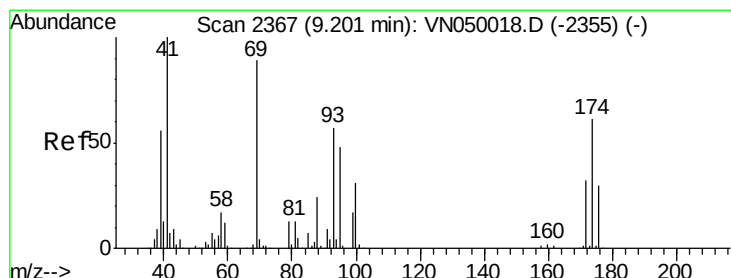
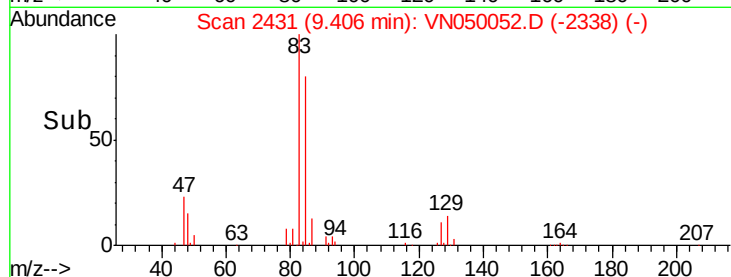
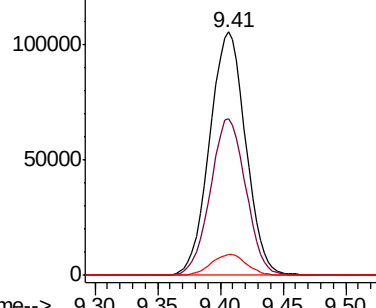
Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	64.5	51.1	76.7	
127	8.7	7.0	10.4	

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM

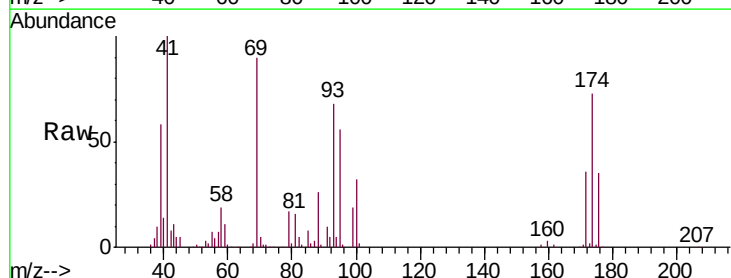


Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V

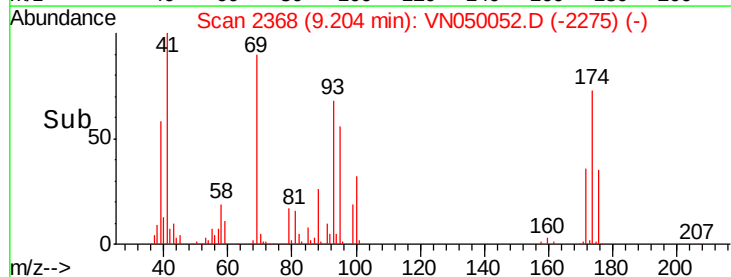
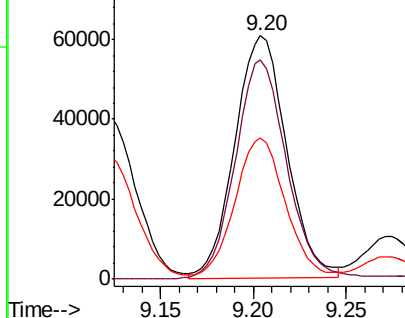


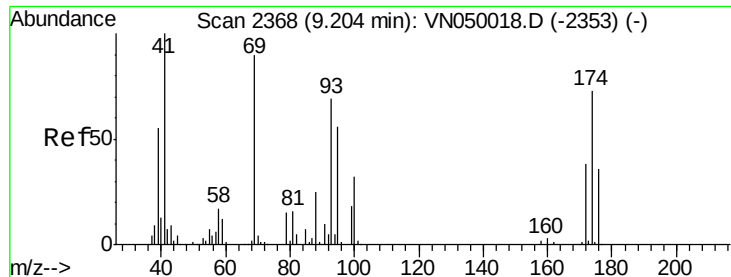
#48
Methyl methacrylate
Concen: 19.80 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	90.0	70.6	105.8	
39	56.6	43.9	65.9	



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





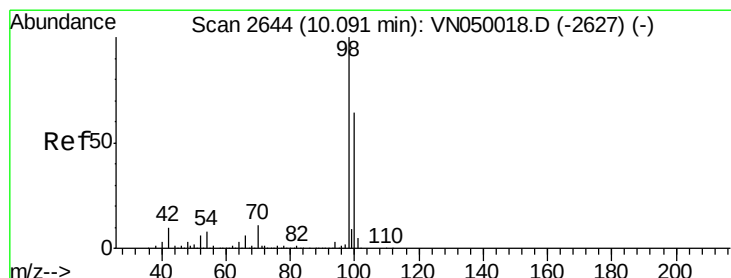
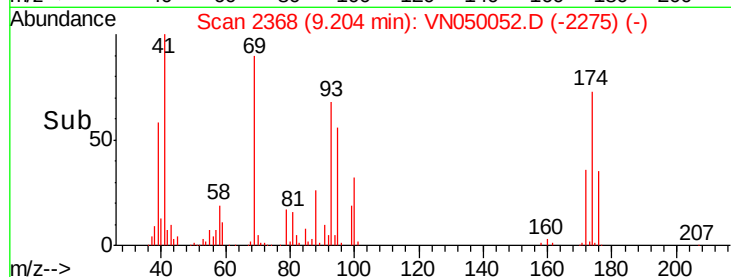
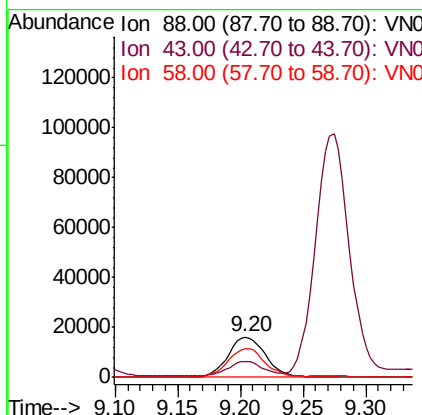
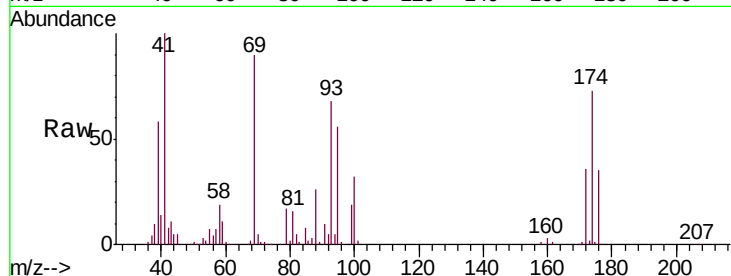
#49
1,4-Dioxane
Concen: 414.24 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	88	Resp	33718
Ion	Ratio	Lower	Upper
88	100		
43	33.2	26.9	40.3
58	70.8	57.3	85.9

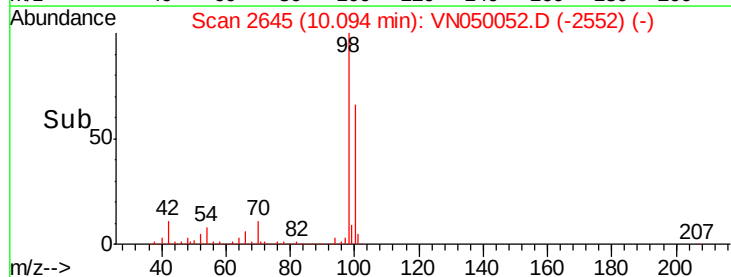
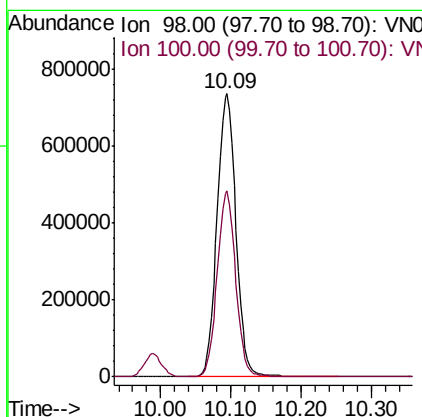
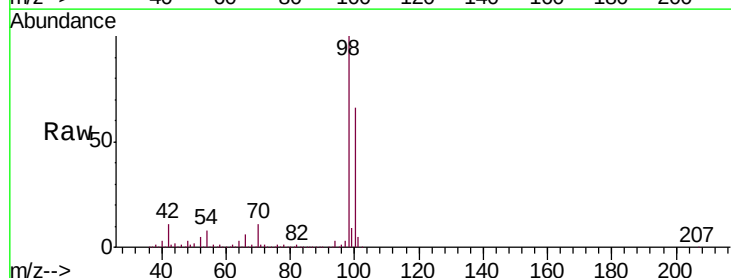
Manual Integrations
APPROVED

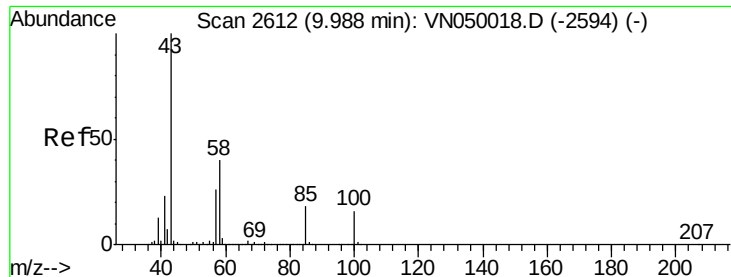
MMDadoda
7/26/2018 3:55:05 PM



#50
Toluene-d8
Concen: 51.84 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	98	Resp	1375801
Ion	Ratio	Lower	Upper
98	100		
100	63.9	50.7	76.1





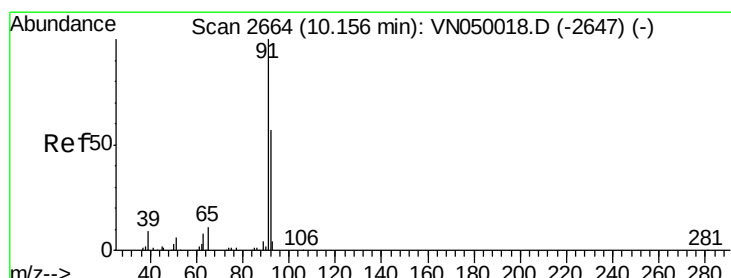
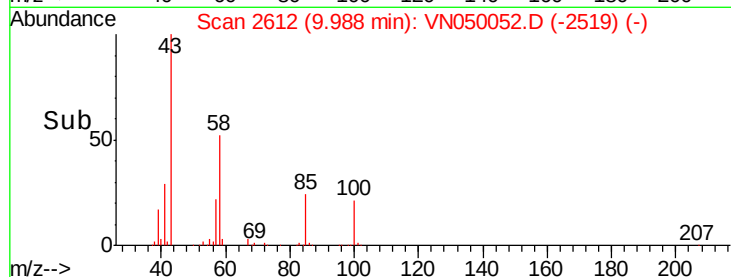
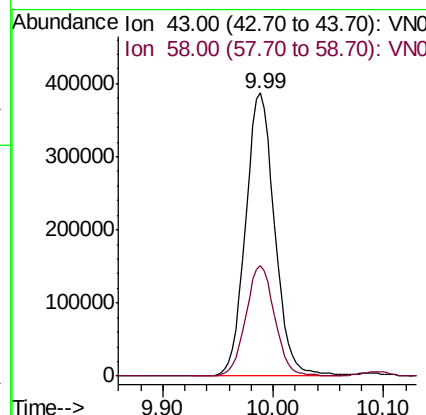
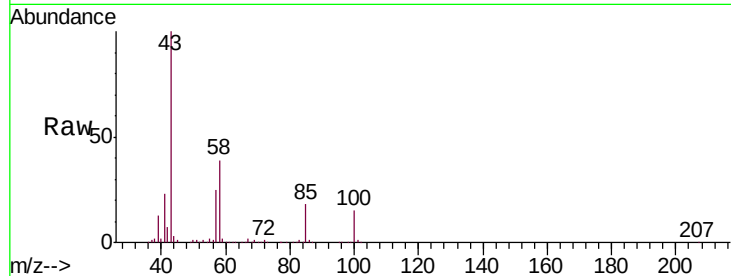
#51
4-Methyl-2-Pentanone
Concen: 103.24 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.1	31.9	47.9

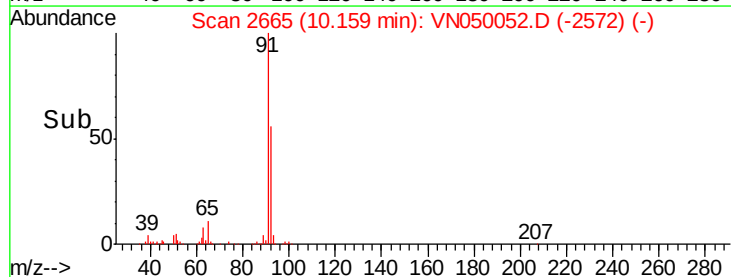
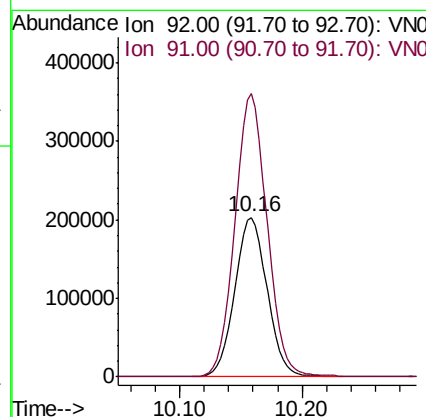
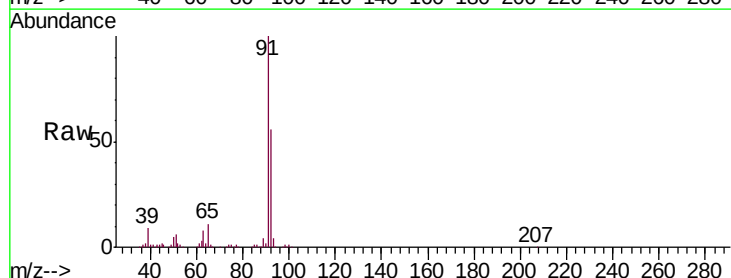
Manual Integrations
APPROVED

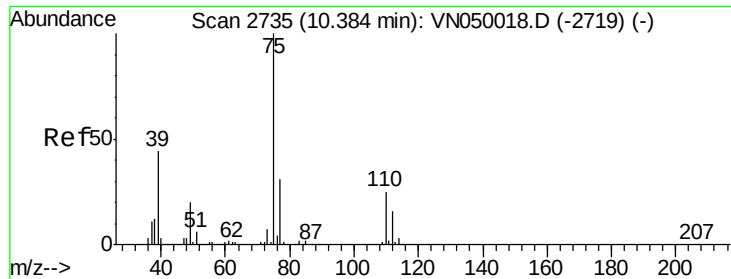
MMDadoda
7/26/2018 3:55:05 PM



#52
Toluene
Concen: 20.92 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
92	100		
91	177.5	140.3	210.5





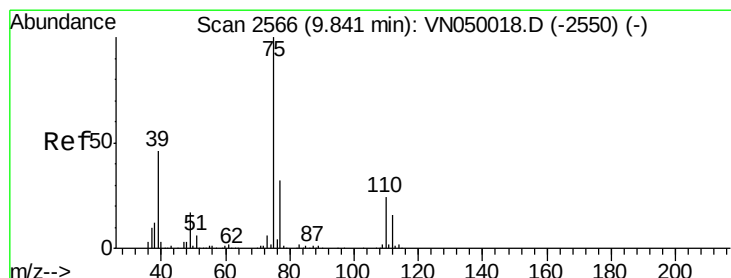
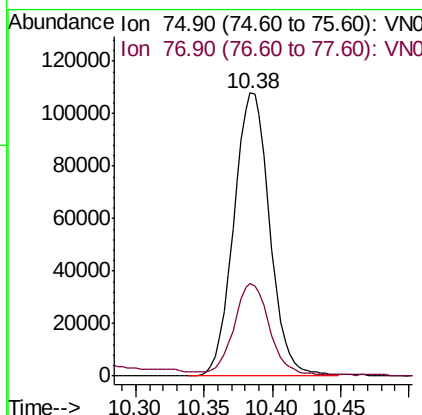
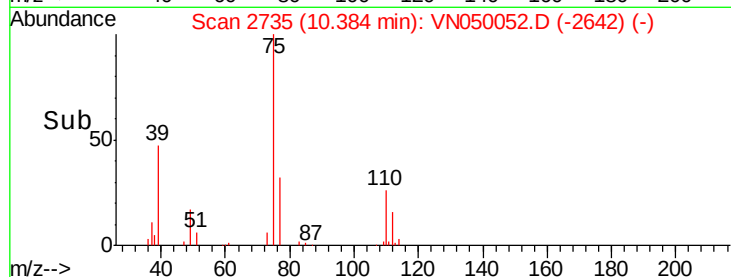
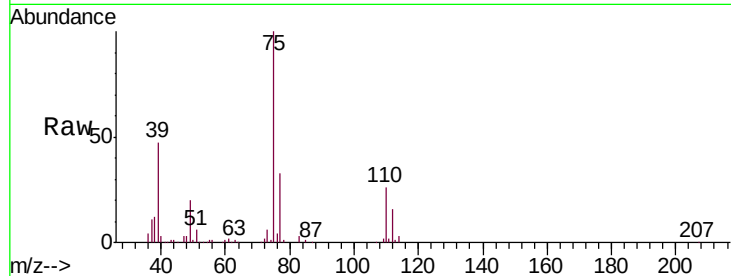
#53
t-1,3-Dichloropropene
Concen: 19.86 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion: 75 Resp: 197227
Ion Ratio Lower Upper
75 100
77 32.2 24.9 37.3

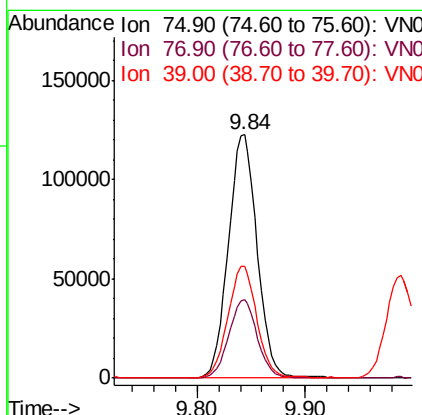
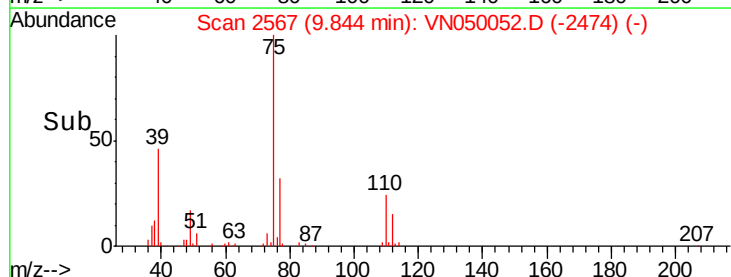
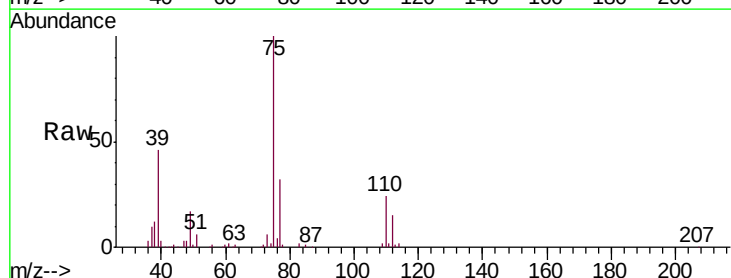
Manual Integrations
APPROVED

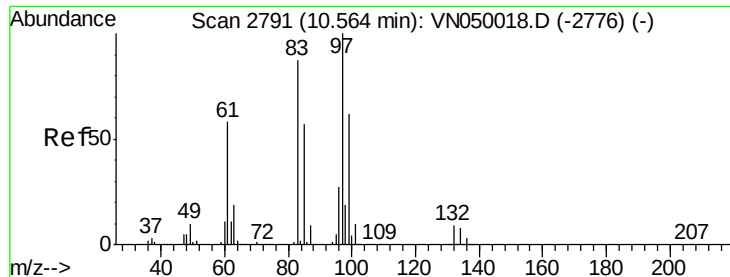
MMDadoda
7/26/2018 3:55:05 PM



#54
cis-1,3-Dichloropropene
Concen: 20.14 ug/l
RT: 9.84 min Scan# 2567
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion: 75 Resp: 228480
Ion Ratio Lower Upper
75 100
77 32.3 25.5 38.3
39 46.1 36.6 55.0





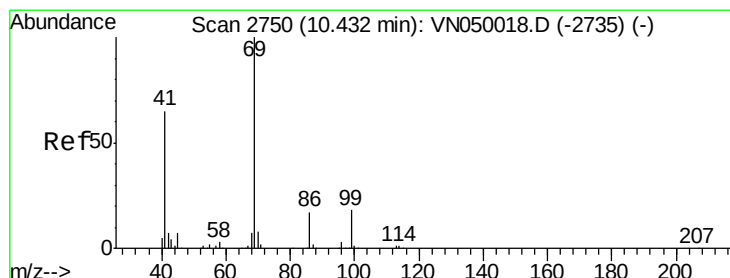
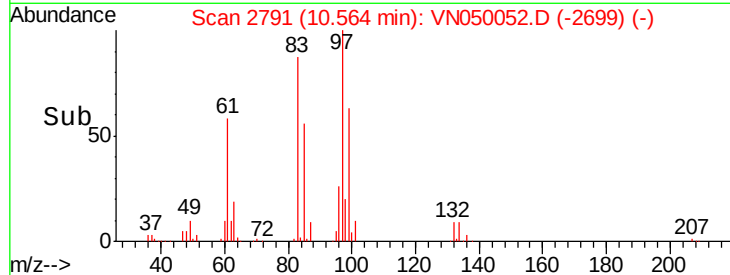
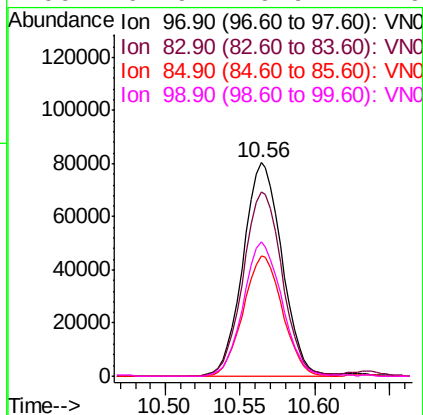
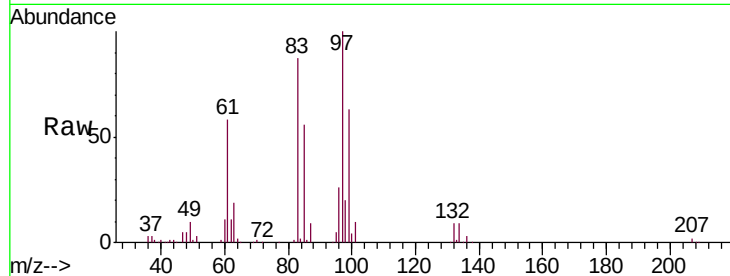
#55
 1,1,2-Trichloroethane
 Concen: 20.50 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		145504		
83	86.5	69.2	103.8		
85	56.2	44.0	66.0		
99	62.9	49.9	74.9		

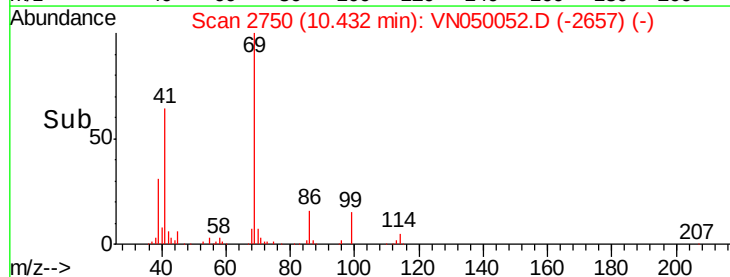
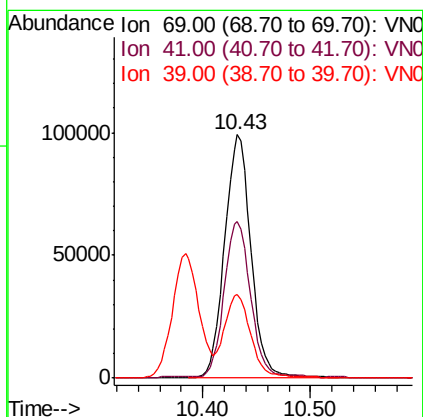
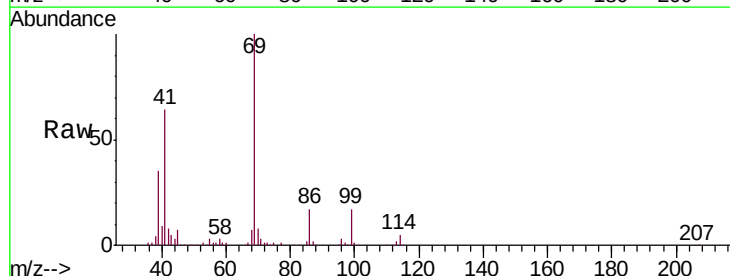
Manual Integrations
 APPROVED

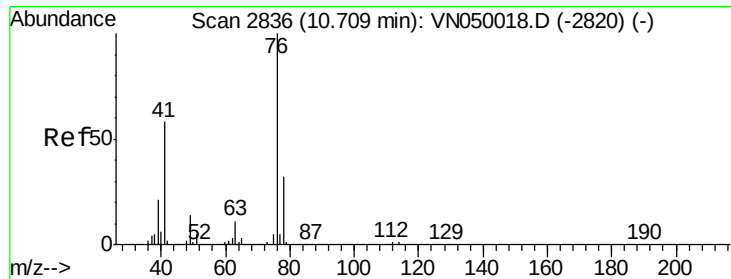
MMDadoda
 7/26/2018 3:55:05 PM



#56
 Ethyl methacrylate
 Concen: 18.90 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		169024		
41	63.9	51.0	76.4		
39	34.5	26.6	40.0		





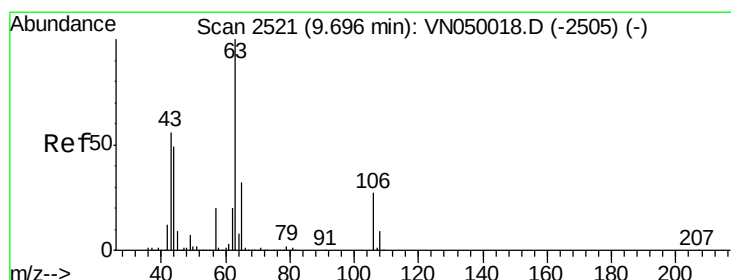
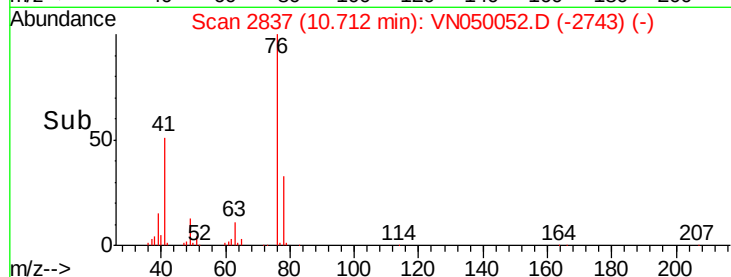
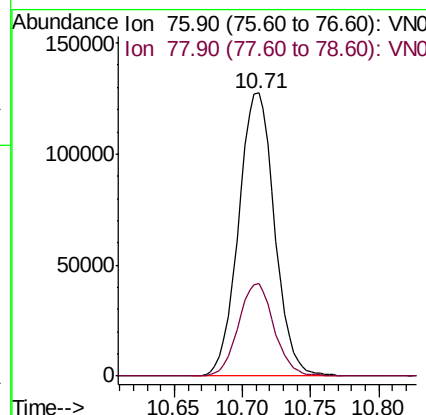
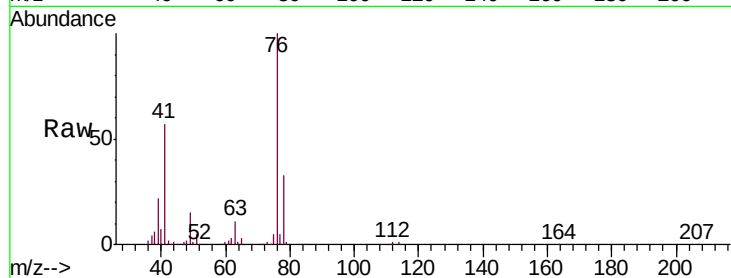
#57
 1,3-Dichloropropane
 Concen: 20.23 ug/l
 RT: 10.71 min Scan# 2837
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.7	38.5

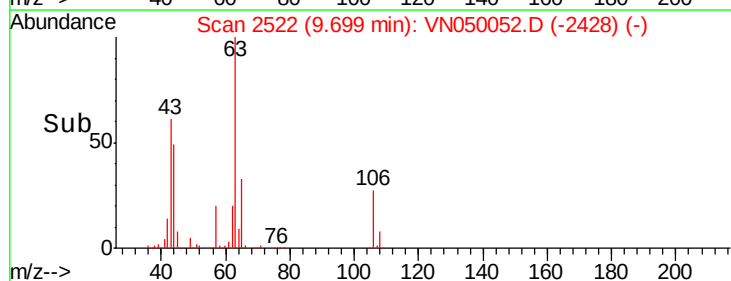
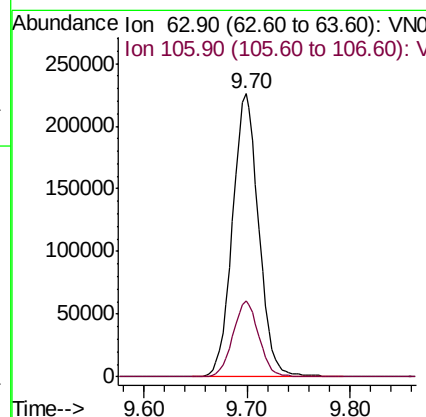
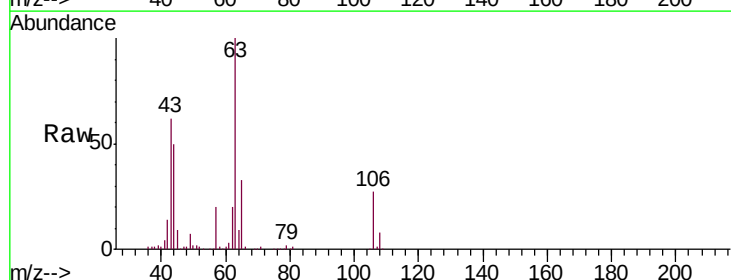
Manual Integrations
 APPROVED

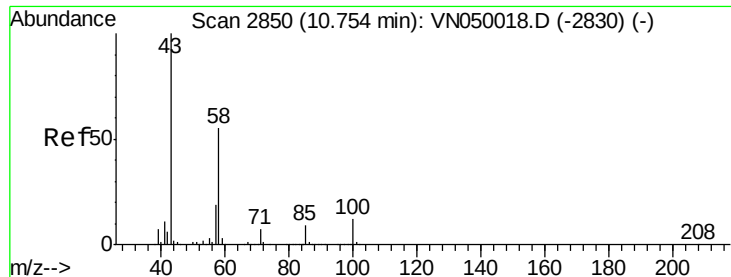
MMDadoda
 7/26/2018 3:55:05 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 94.59 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.7	32.5





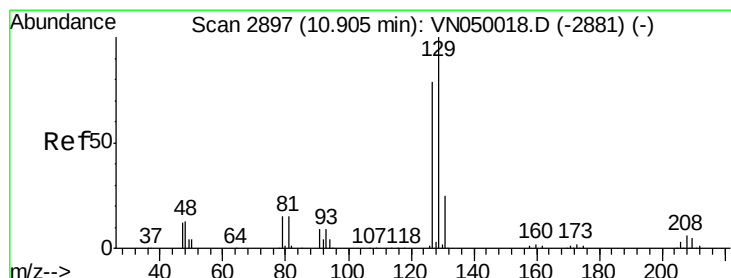
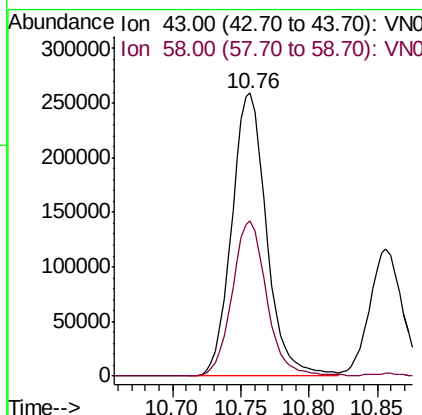
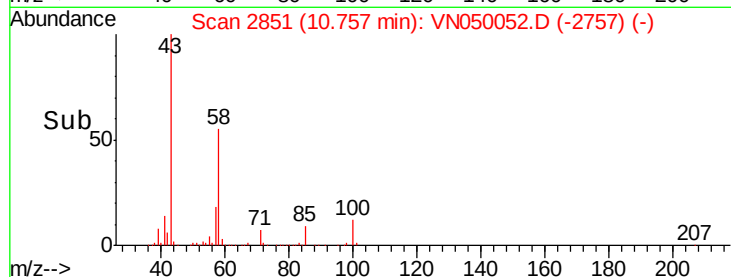
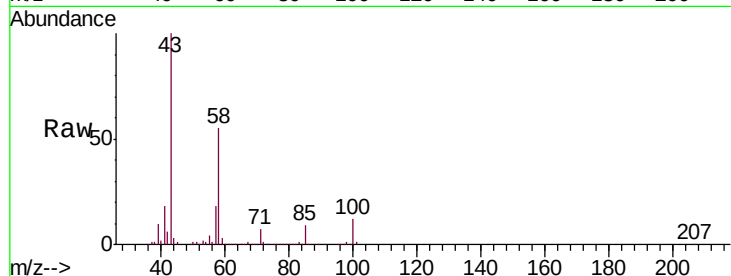
#59
2-Hexanone
Concen: 94.25 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion: 43 Resp: 456314
Ion Ratio Lower Upper
43 100
58 54.8 27.6 82.7

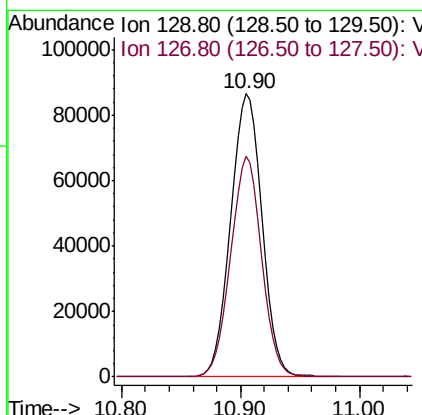
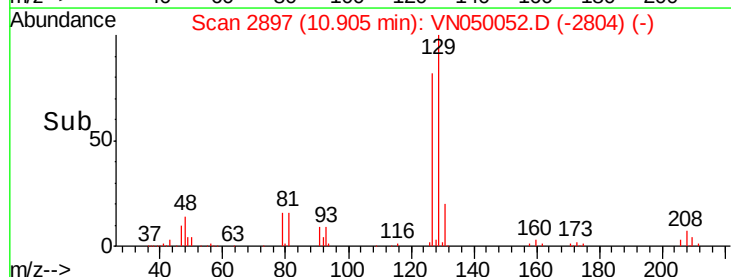
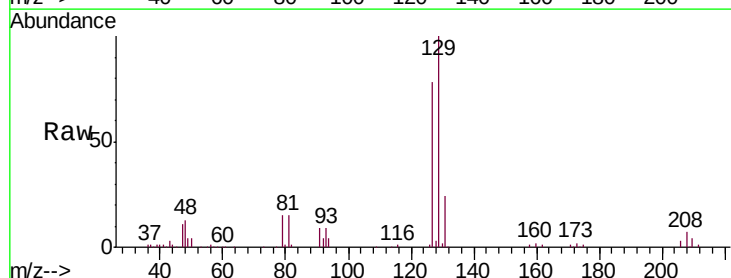
Manual Integrations
APPROVED

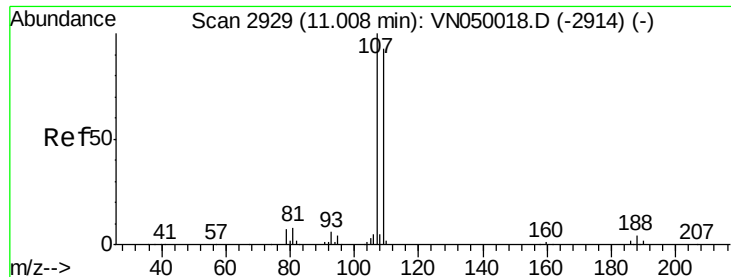
MMDadoda
7/26/2018 3:55:05 PM



#60
Dibromochloromethane
Concen: 20.14 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion: 129 Resp: 158234
Ion Ratio Lower Upper
129 100
127 76.9 38.0 113.9





#61

1,2-Dibromoethane

Concen: 19.82 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 107 Resp: 139569

Ion Ratio Lower Upper

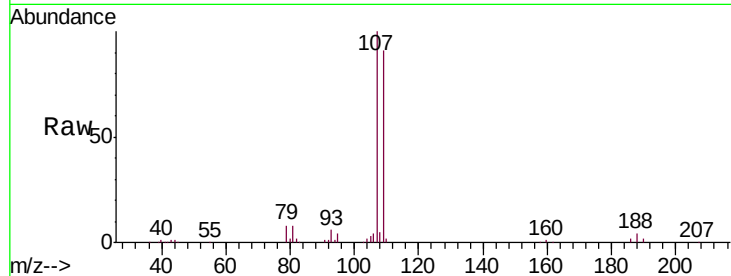
107 100

109 95.0 74.6 112.0

Manual Integrations
APPROVED

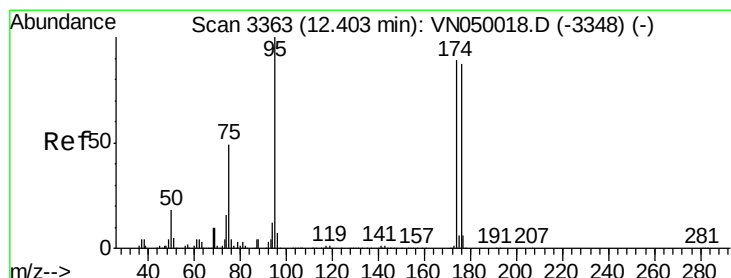
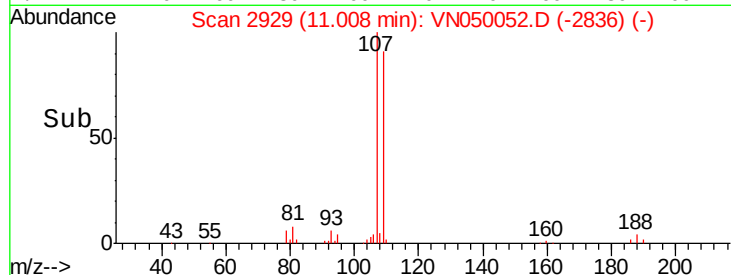
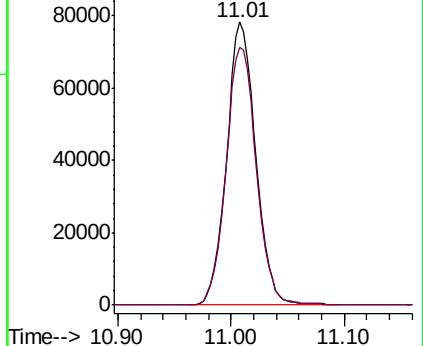
MMDadoda

7/26/2018 3:55:05 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.88 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

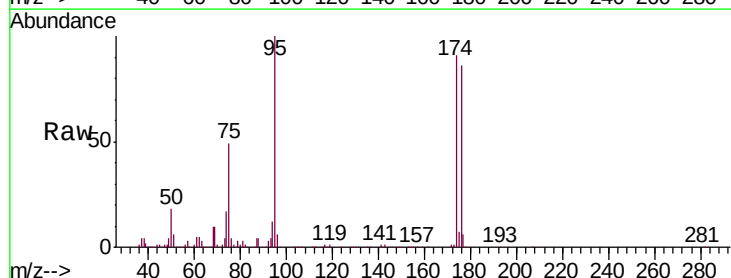
Tgt Ion: 95 Resp: 435865

Ion Ratio Lower Upper

95 100

174 91.2 0.0 178.2

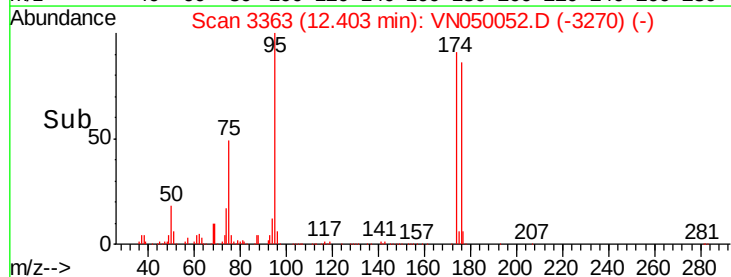
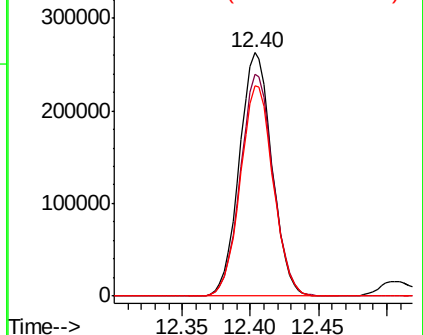
176 87.2 0.0 173.4

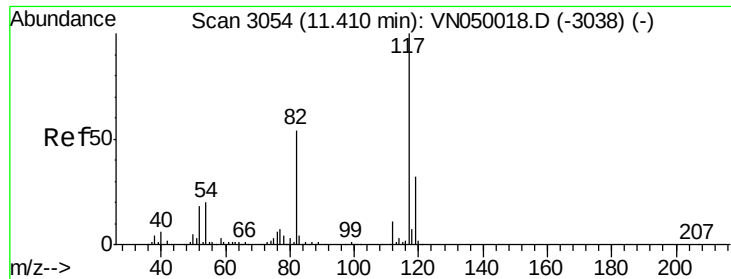


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





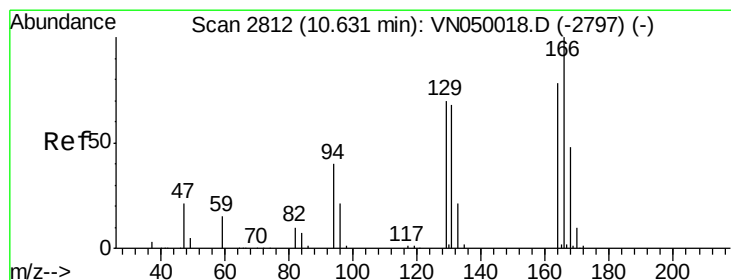
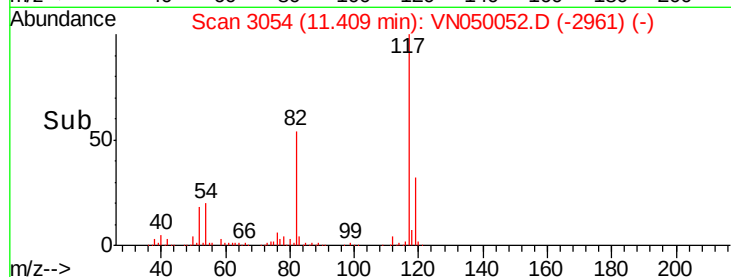
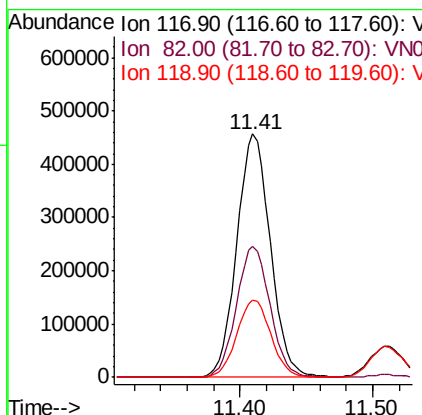
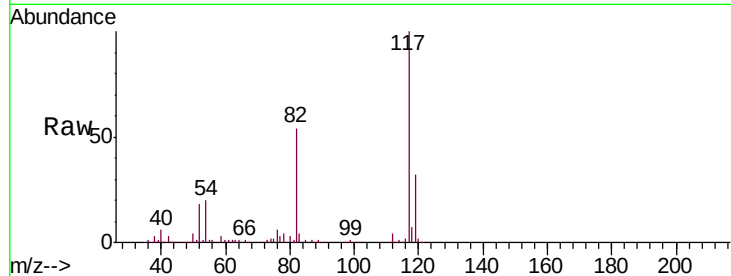
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	43.7	65.5
119	31.7	26.1	39.1

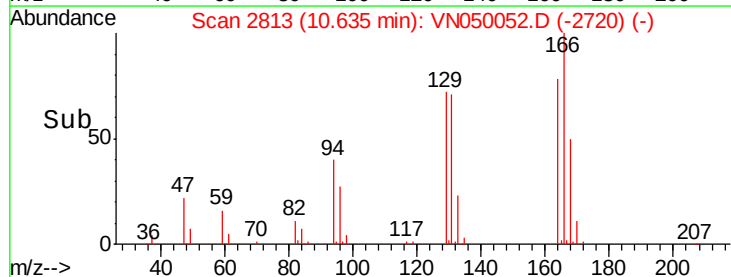
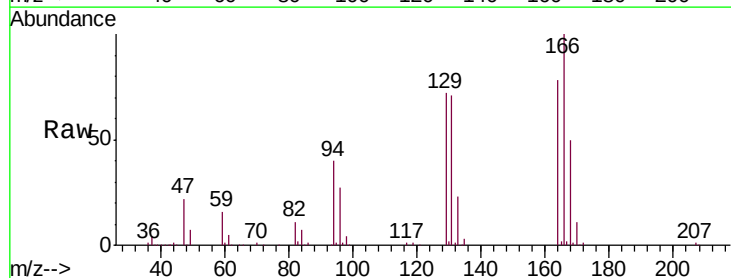
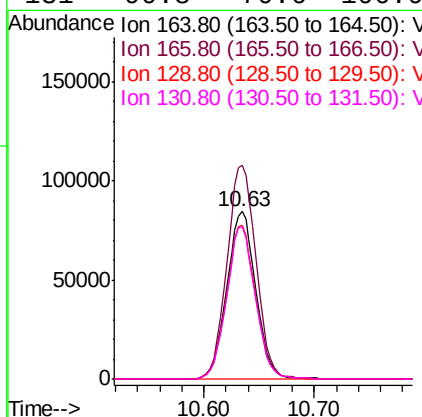
Manual Integrations
APPROVED

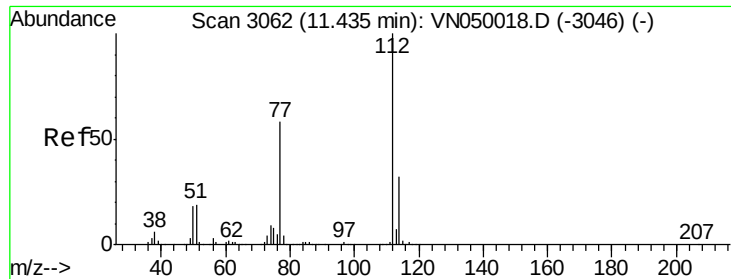
MMDadoda
7/26/2018 3:55:05 PM



#64
Tetrachloroethene
Concen: 19.89 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.7	102.1	153.1
129	91.9	73.2	109.8
131	90.8	70.6	106.0





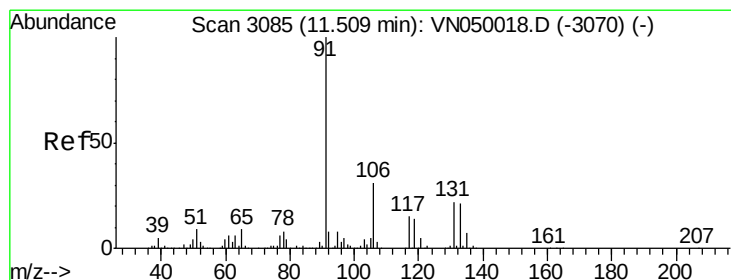
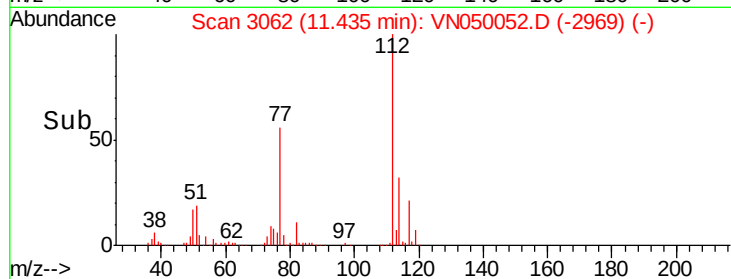
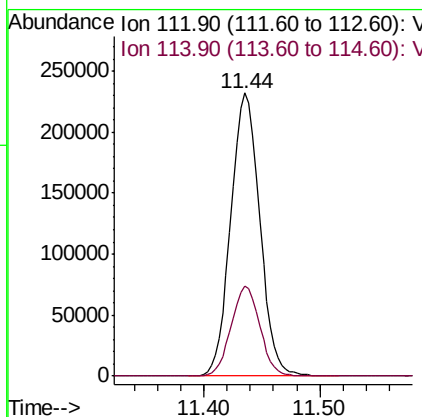
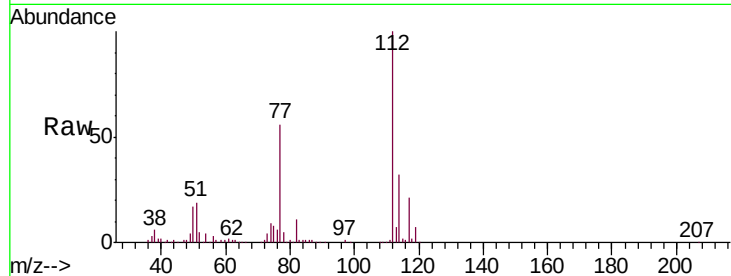
#65
Chlorobenzene
Concen: 19.89 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampled :
VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.6	38.4

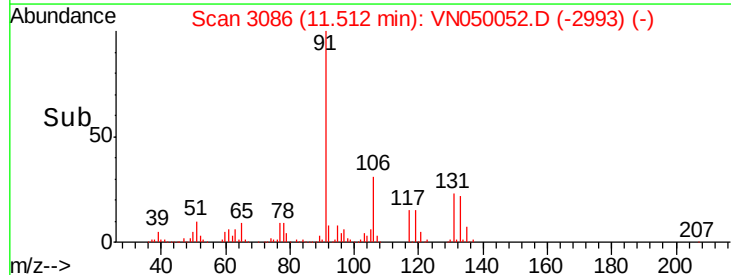
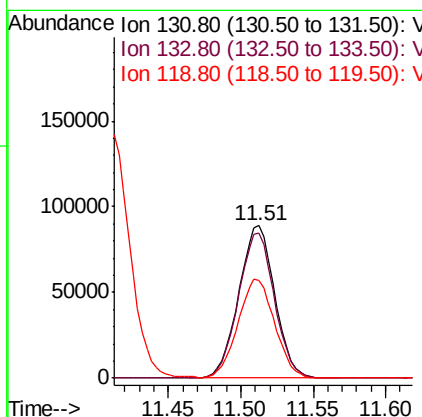
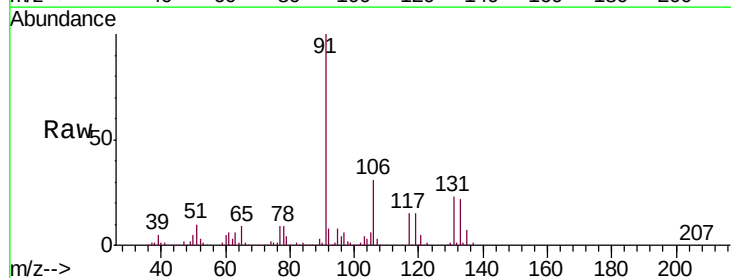
Manual Integrations
APPROVED

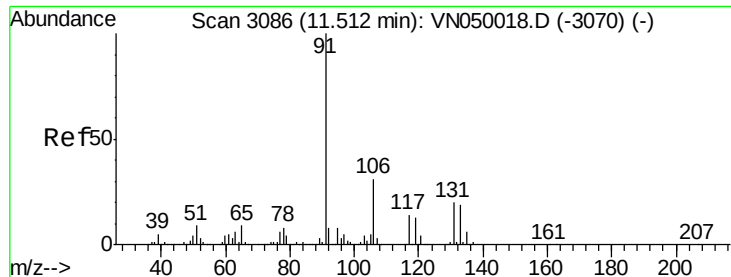
MMDadoda
7/26/2018 3:55:05 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.70 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	141.9
119	66.3	32.9	98.7





#67

Ethyl Benzene

Concen: 20.09 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 91 Resp: 654398

Ion Ratio Lower Upper

91 100

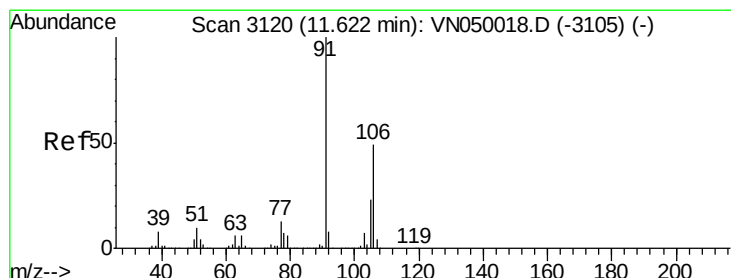
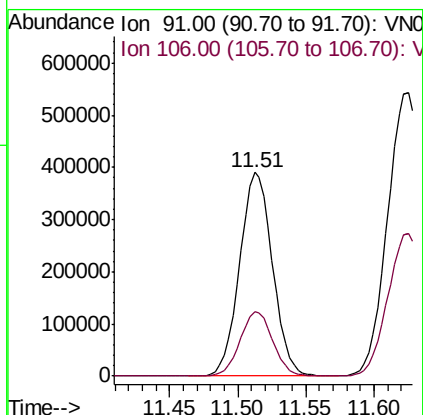
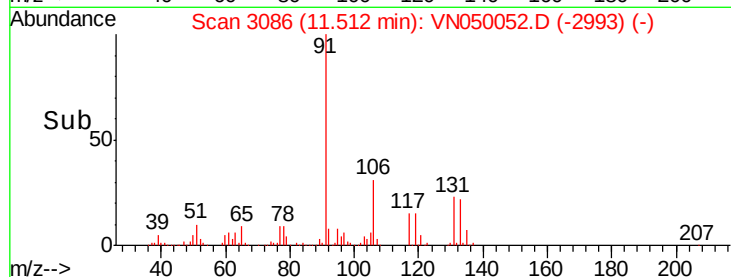
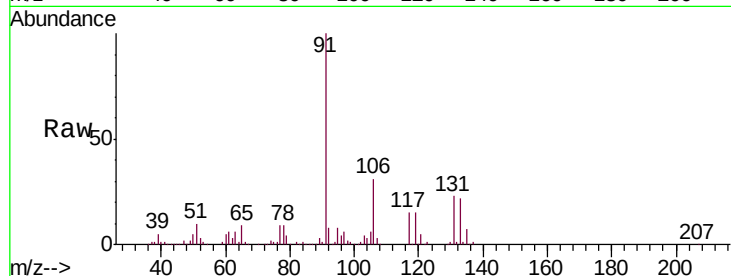
106 31.4 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:55:05 PM



#68

m/p-Xylenes

Concen: 42.14 ug/l

RT: 11.62 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN050052.D

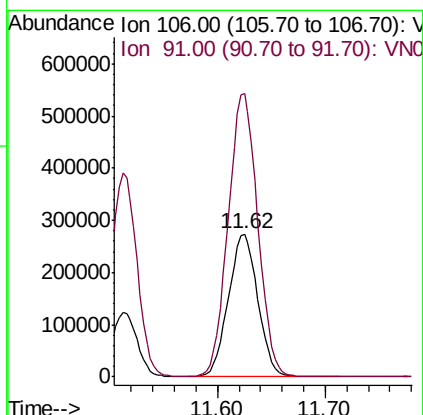
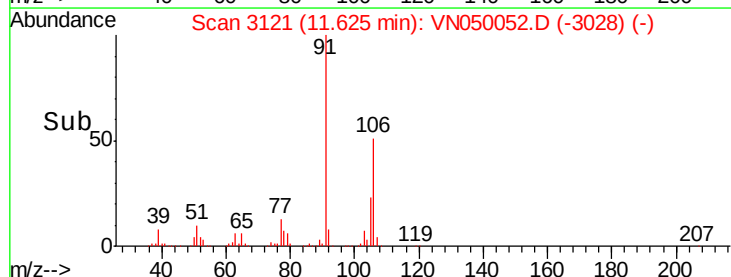
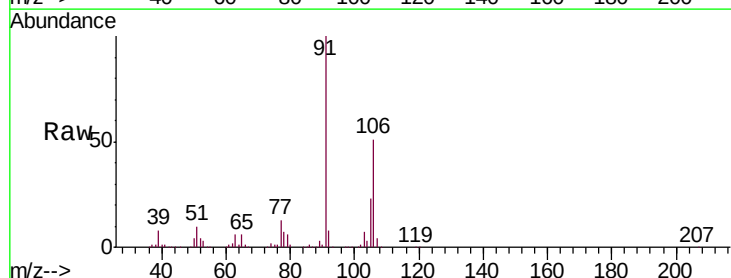
Acq: 25 Jul 2018 19:20

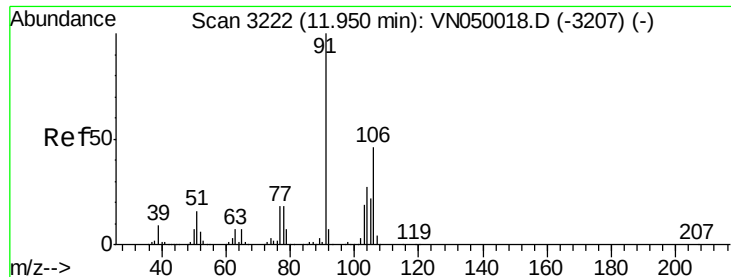
Tgt Ion: 106 Resp: 519322

Ion Ratio Lower Upper

106 100

91 199.9 162.2 243.2





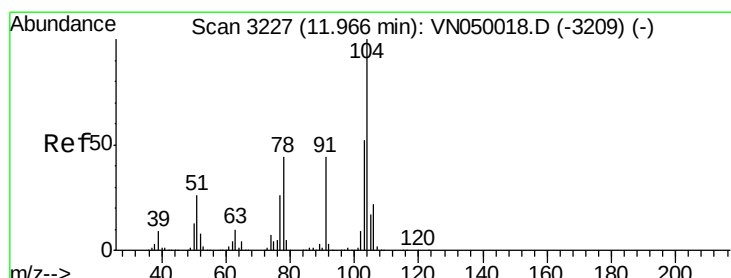
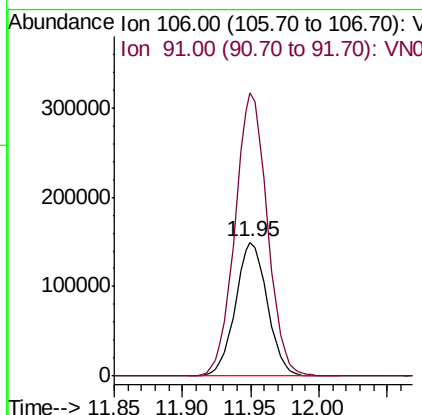
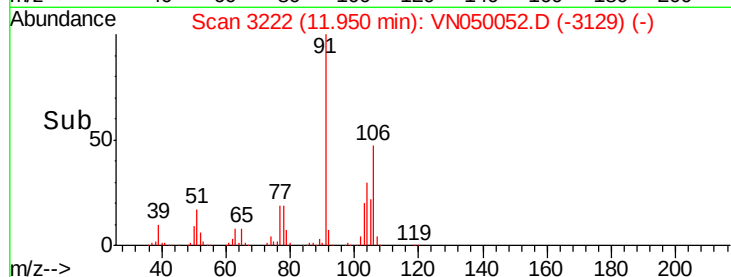
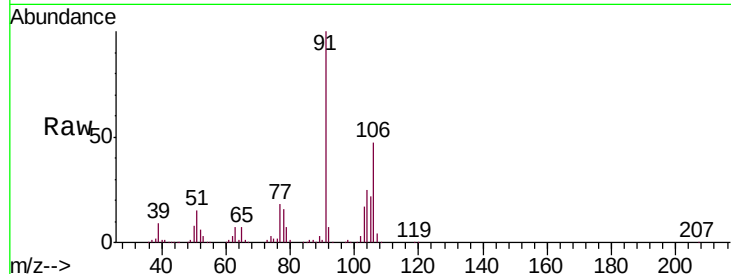
#69
o-Xylene
Concen: 20.70 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
106	100		
91	214.2	107.7	323.1

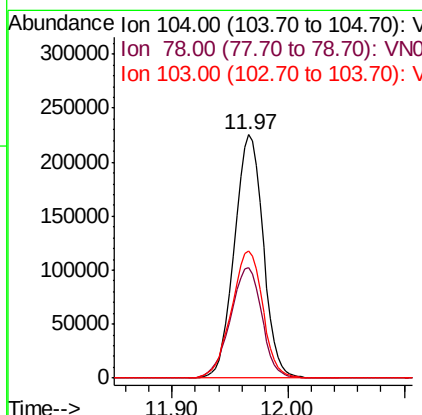
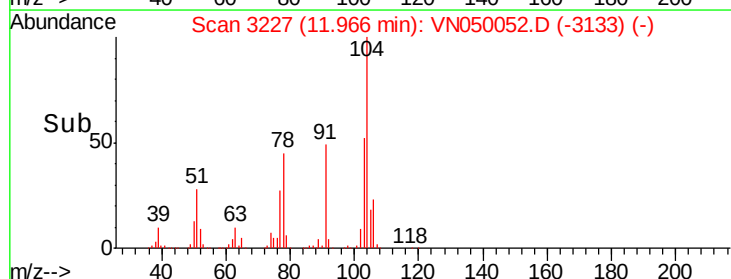
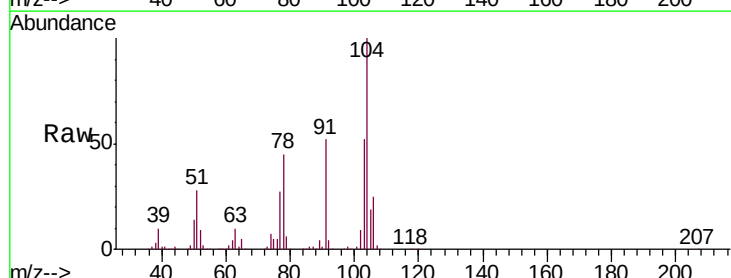
Manual Integrations
APPROVED

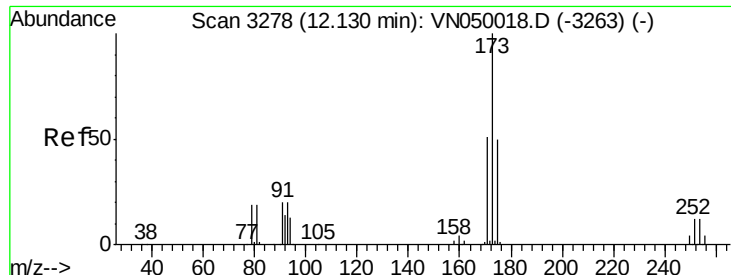
MMDadoda
7/26/2018 3:55:05 PM



#70
Styrene
Concen: 19.13 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.8	39.3	58.9
103	57.1	45.0	67.6





#71

Bromoform

Concen: 19.72 ug/l

RT: 12.13 min Scan# 3278

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion:173 Resp: 111787

Ion Ratio Lower Upper

173 100

175 48.4 24.1 72.2

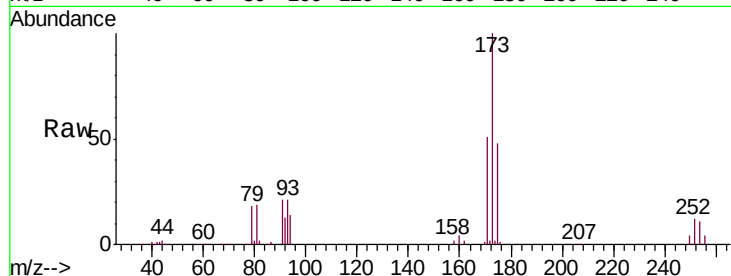
254 0.0 0.2 0.2#

Manual Integrations

APPROVED

MMDadoda

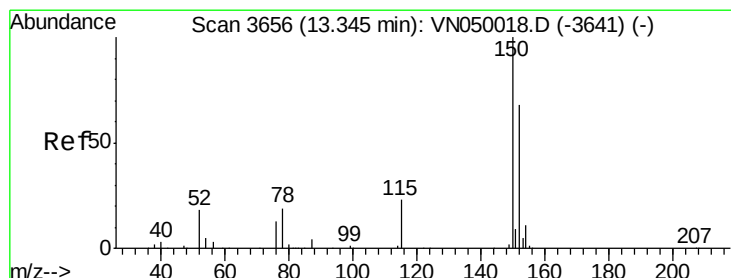
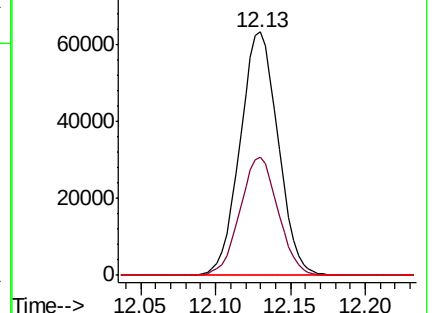
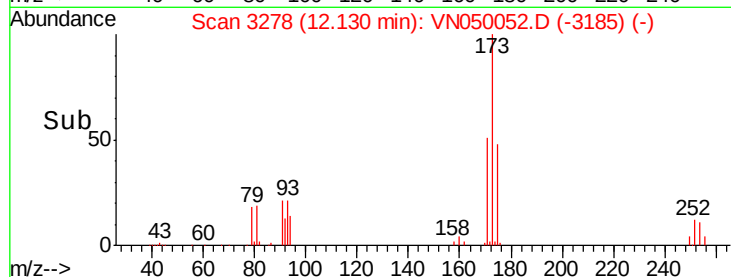
7/26/2018 3:55:05 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

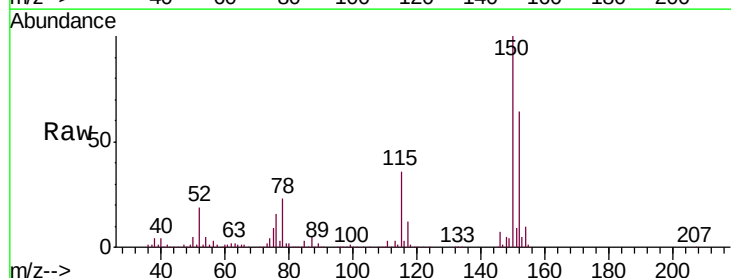
Tgt Ion:152 Resp: 398921

Ion Ratio Lower Upper

152 100

115 56.4 27.8 83.3

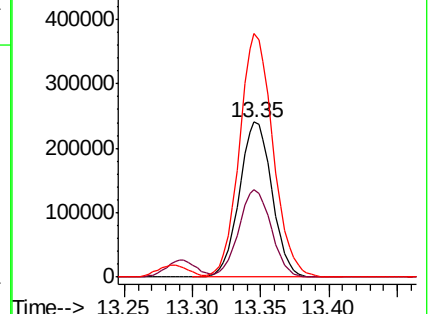
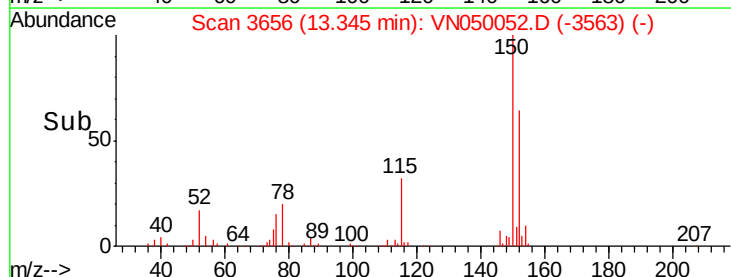
150 161.6 0.0 348.6

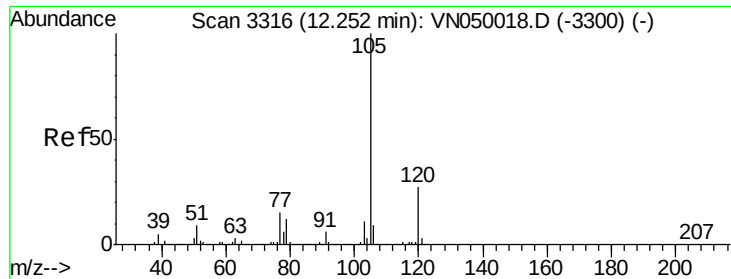


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.96 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. -0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 105 Resp: 648441

Ion Ratio Lower Upper

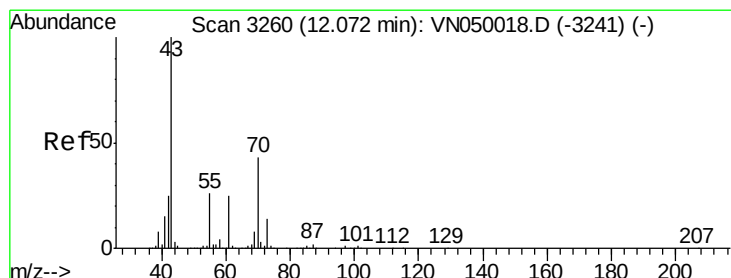
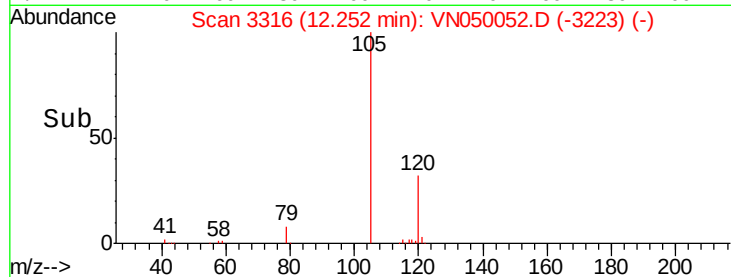
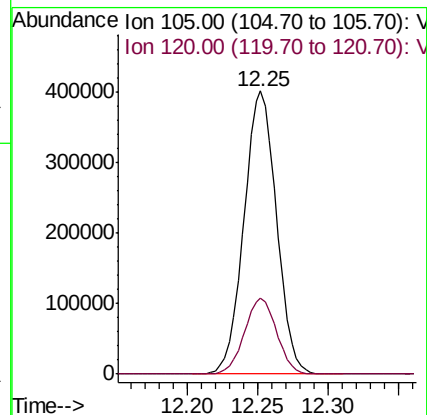
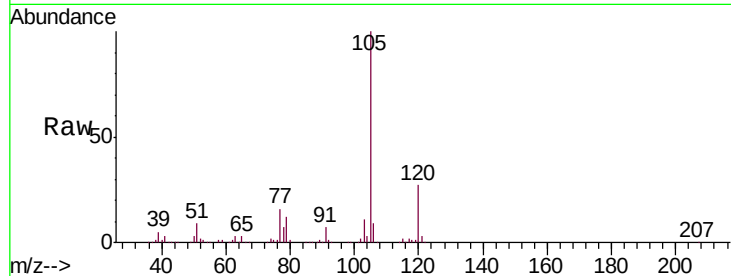
105 100

120 26.5 13.3 39.8

Manual Integrations
APPROVED

MMDadoda

7/26/2018 3:55:05 PM



#74

N-ethyl acetate

Concen: 19.09 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Tgt Ion: 43 Resp: 180484

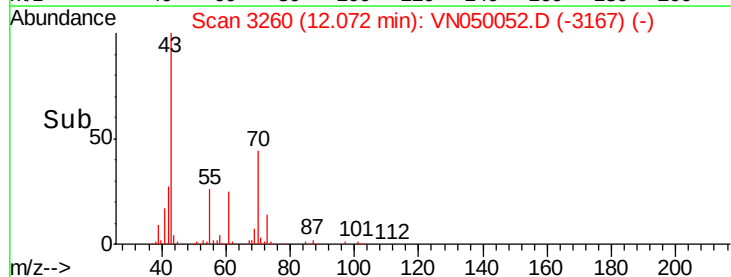
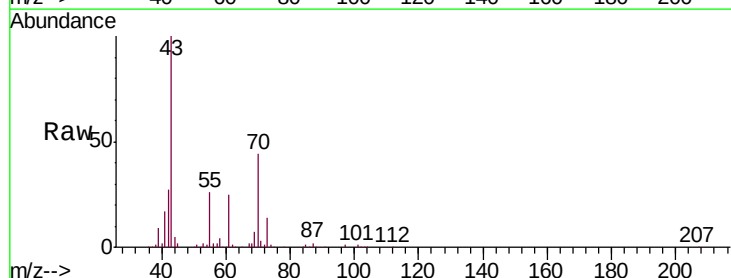
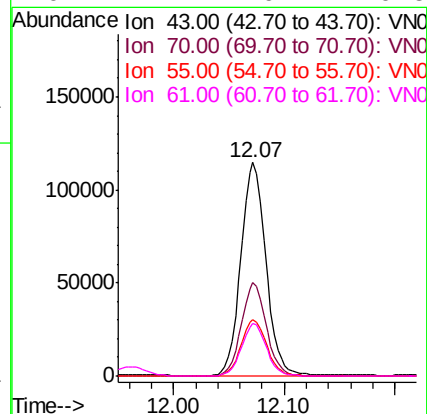
Ion Ratio Lower Upper

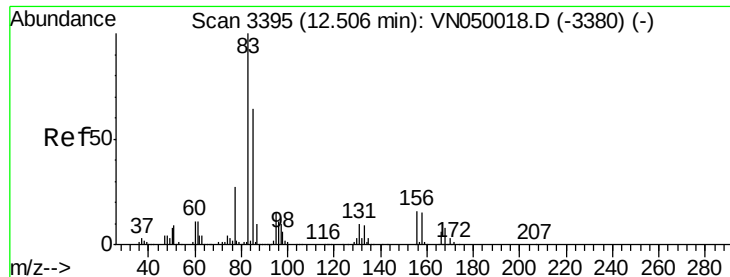
43 100

70 43.5 34.4 51.6

55 27.1 20.8 31.2

61 24.2 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.25 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

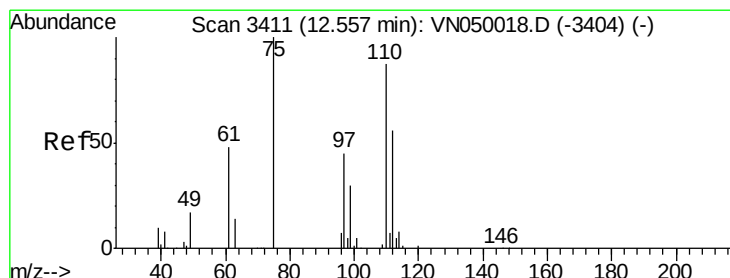
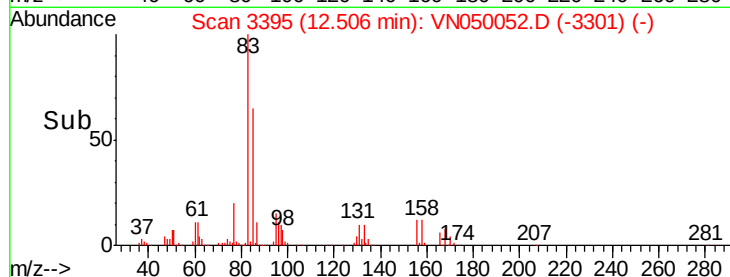
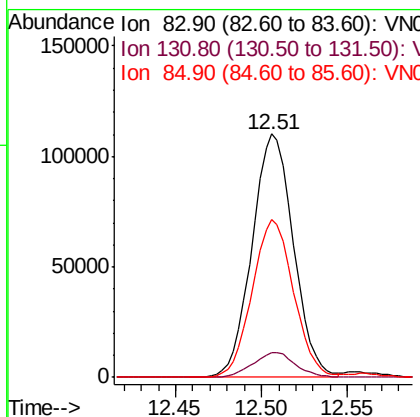
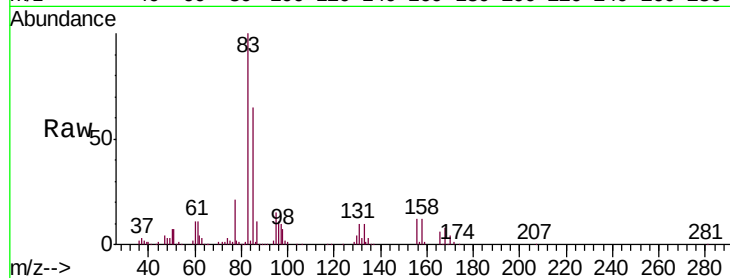
ClientSampleId :

VN0725WBSD02

Tot Ion:	83	Resp:	184020
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.1	15.3
85	64.8	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM



#76

1,2,3-Trichloropropane

Concen: 20.05 ug/l m

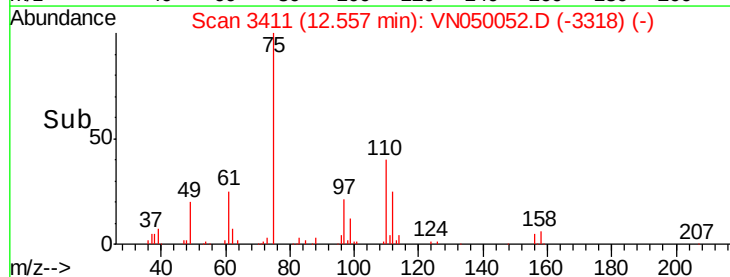
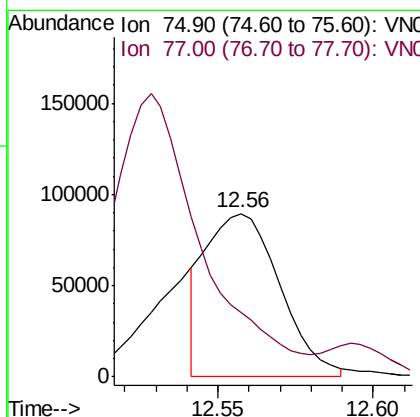
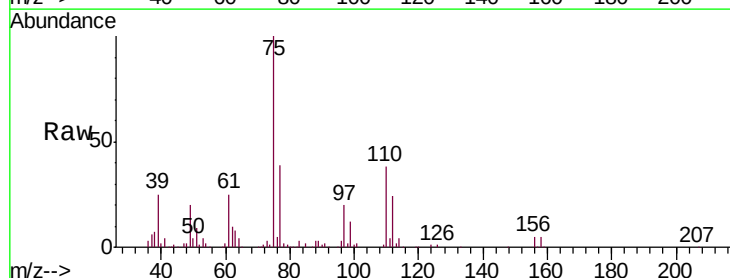
RT: 12.56 min Scan# 3411

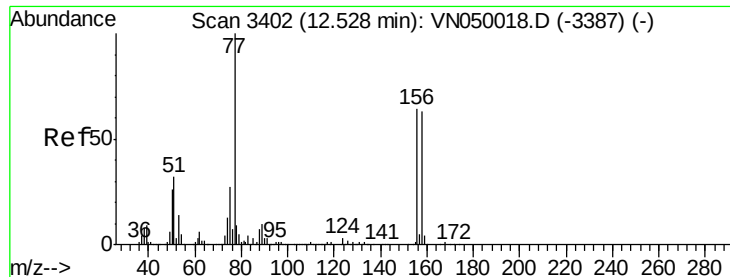
Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Tgt Ion:	75	Resp:	148633
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.03 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion:156 Resp: 171772

Ion Ratio Lower Upper

156 100

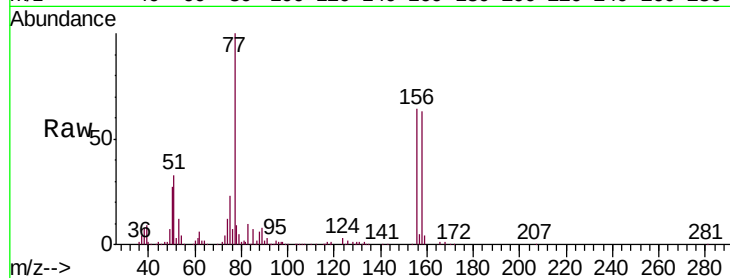
77 184.4 91.7 275.1

158 98.1 48.9 146.6

Manual Integrations
APPROVED

MMDadoda

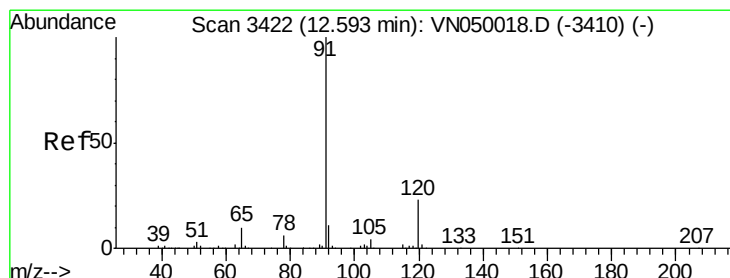
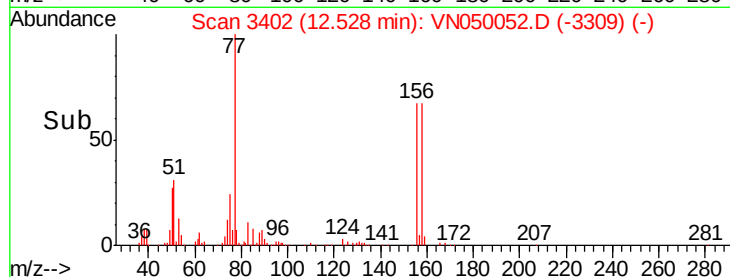
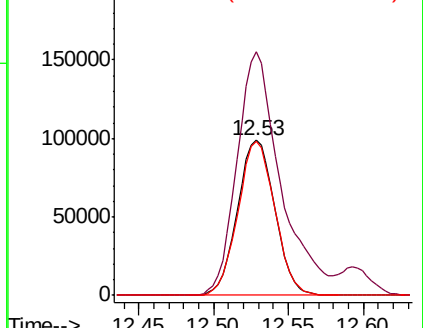
7/26/2018 3:55:05 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.38 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050052.D

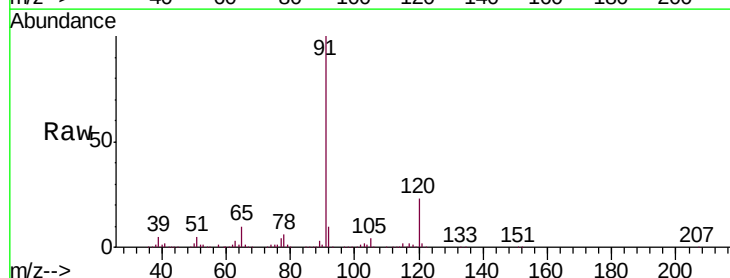
Acq: 25 Jul 2018 19:20

Tgt Ion: 91 Resp: 739412

Ion Ratio Lower Upper

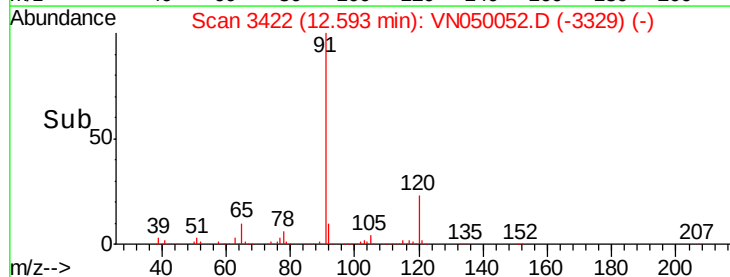
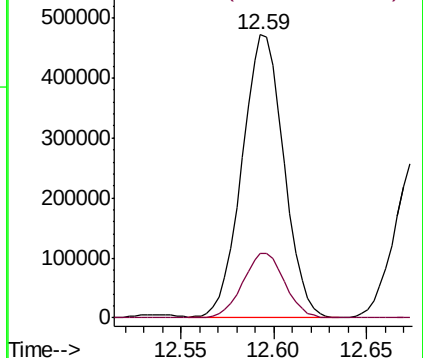
91 100

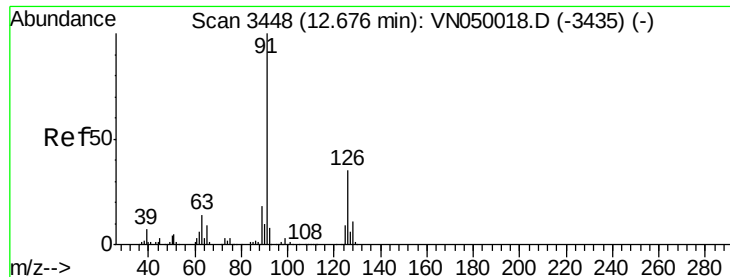
120 23.0 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.06 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampled :

VN0725WBSD02

Tot Ion: 91 Resp: 451321

Ion Ratio Lower Upper

91 100

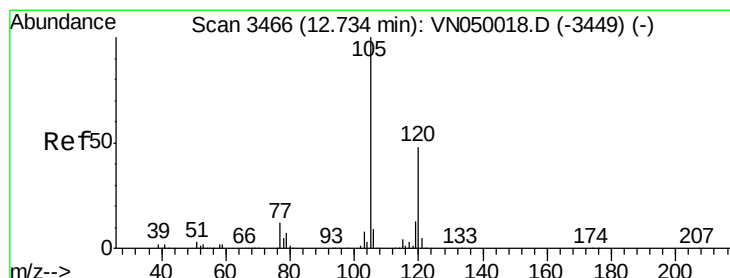
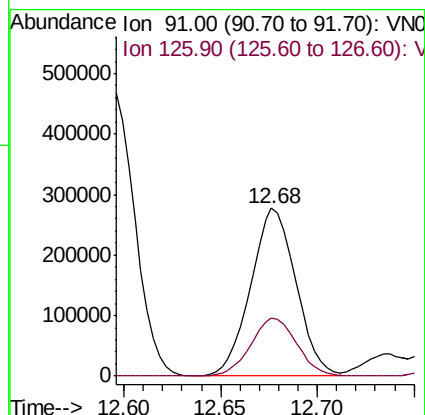
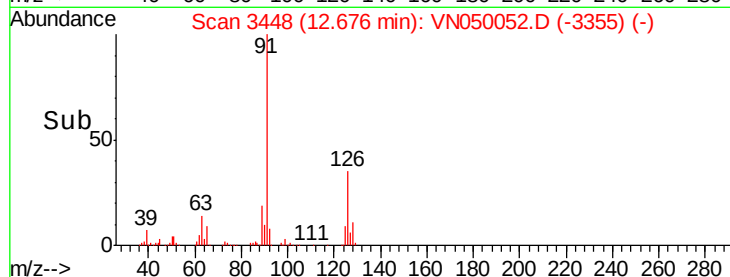
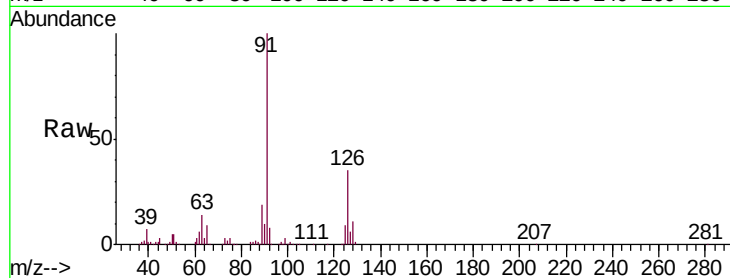
126 35.2 17.6 52.8

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:55:05 PM



#80

1,3,5-Trimethylbenzene

Concen: 21.91 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050052.D

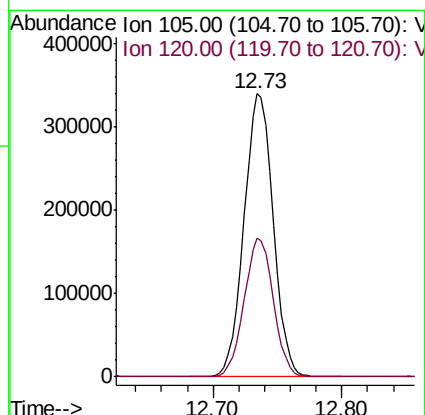
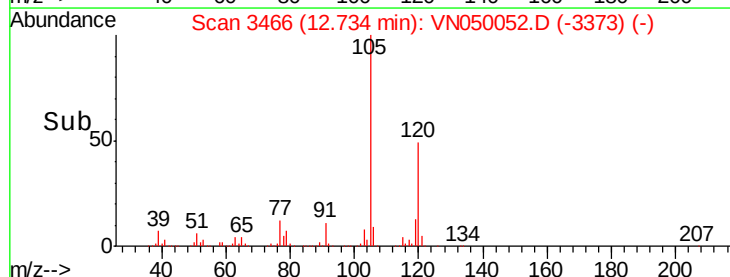
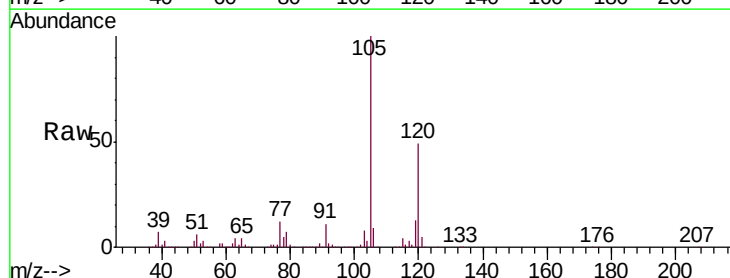
Acq: 25 Jul 2018 19:20

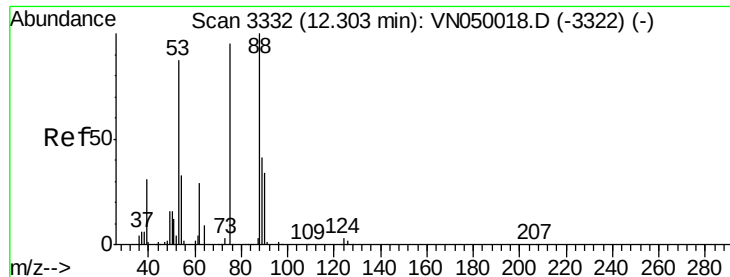
Tgt Ion: 105 Resp: 533184

Ion Ratio Lower Upper

105 100

120 49.2 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 19.16 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion: 75 Resp: 44784

Ion Ratio Lower Upper

75 100

53 97.1 73.5 110.3

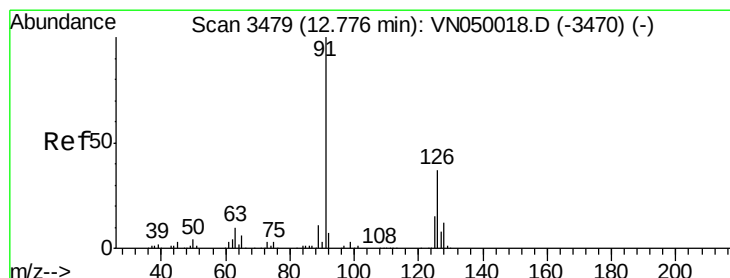
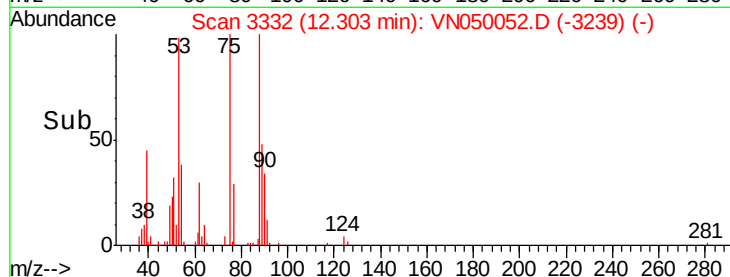
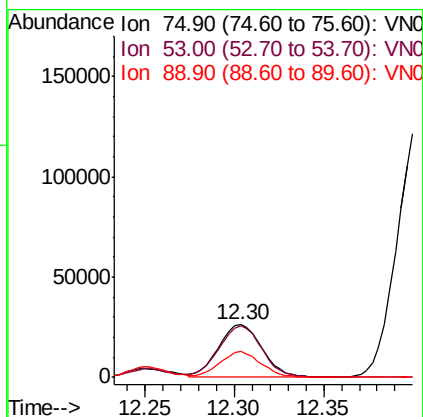
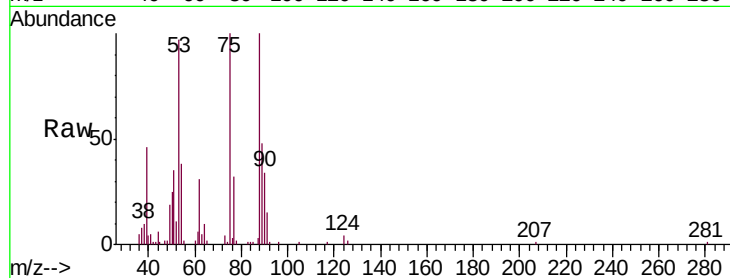
89 46.8 36.0 54.0

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:55:05 PM



#82

4-Chlorotoluene

Concen: 21.10 ug/l

RT: 12.78 min Scan# 3479

Delta R.T. 0.00 min

Lab File: VN050052.D

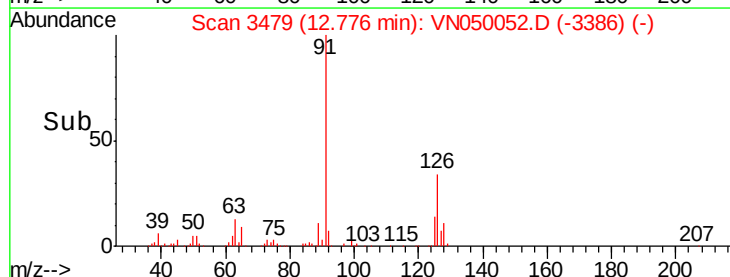
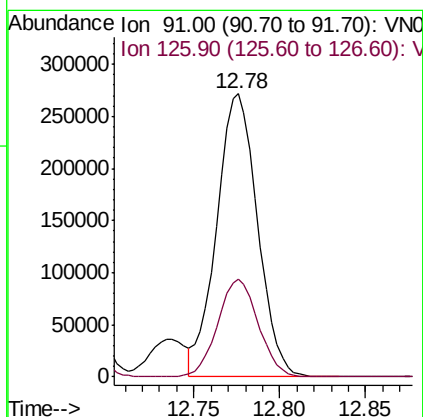
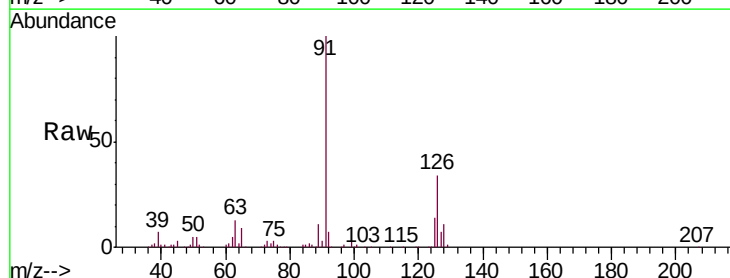
Acq: 25 Jul 2018 19:20

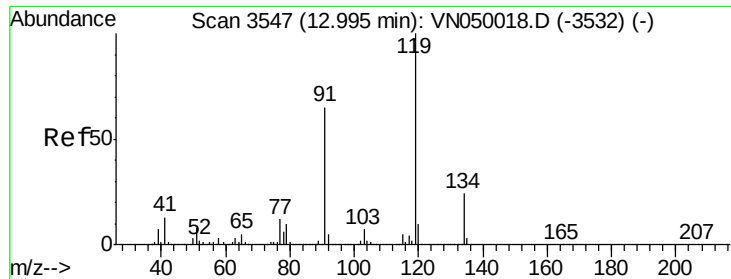
Tgt Ion: 91 Resp: 447814

Ion Ratio Lower Upper

91 100

126 34.3 17.0 51.0





#83

tert-Butylbenzene

Concen: 21.27 ug/l

RT: 13.00 min Scan# 3548

Delta R.T. -0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

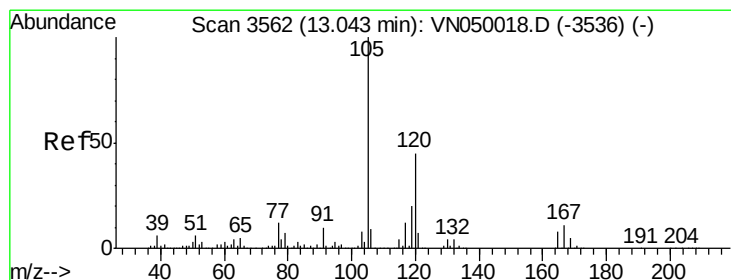
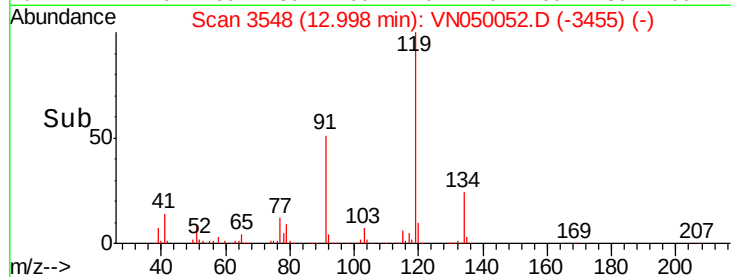
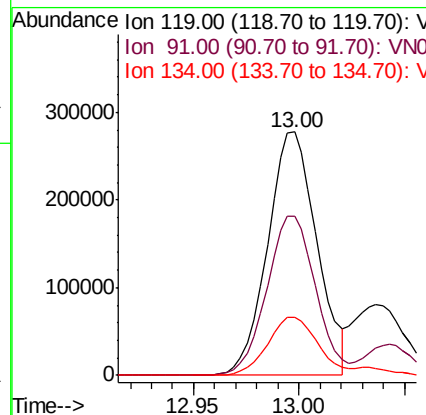
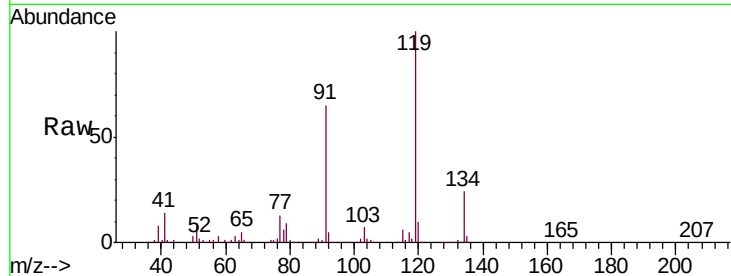
ClientSampleId :

VN0725WBSD02

Tot Ion:	119	Resp:	451664
Ion Ratio	Lower	Upper	
119	100		
91	64.8	32.1	96.3
134	24.7	13.2	39.5

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM



#84

1,2,4-Trimethylbenzene

Concen: 22.42 ug/l

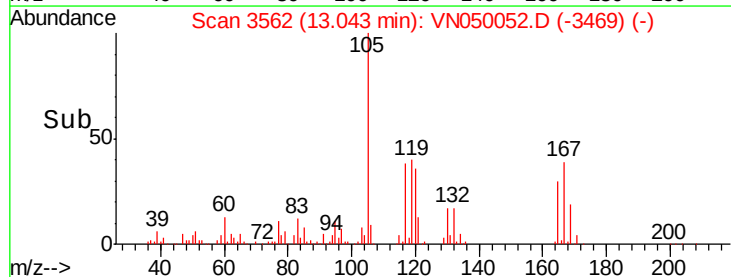
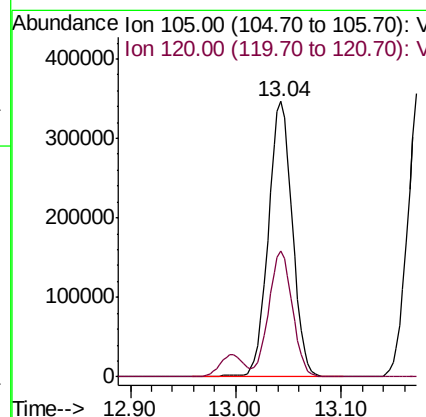
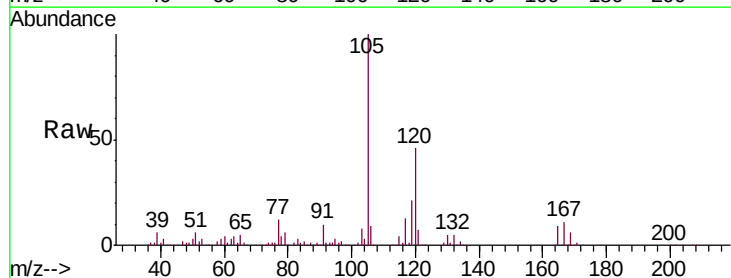
RT: 13.04 min Scan# 3562

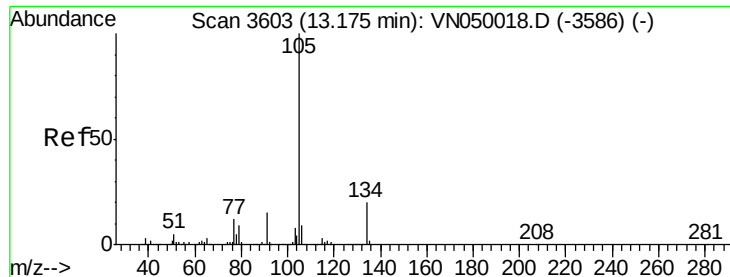
Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Tgt Ion:	105	Resp:	549975
Ion Ratio	Lower	Upper	
105	100		
120	45.1	22.9	68.7





#85

sec-Butylbenzene

Concen: 21.43 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBSD02

Tot Ion:105 Resp: 608125

Ion Ratio Lower Upper

105 100

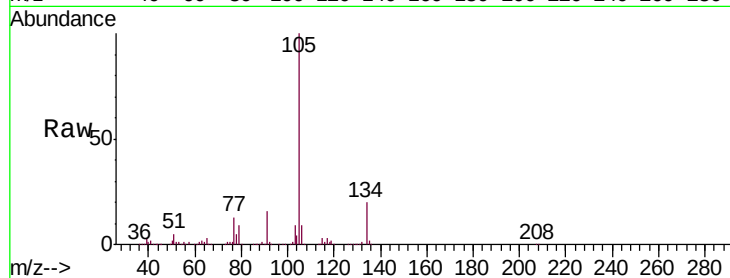
134 19.9 10.1 30.1

Manual Integrations

APPROVED

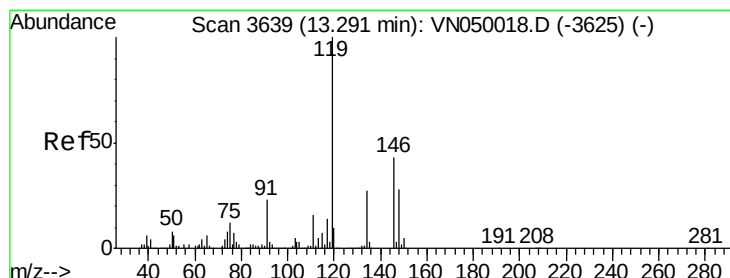
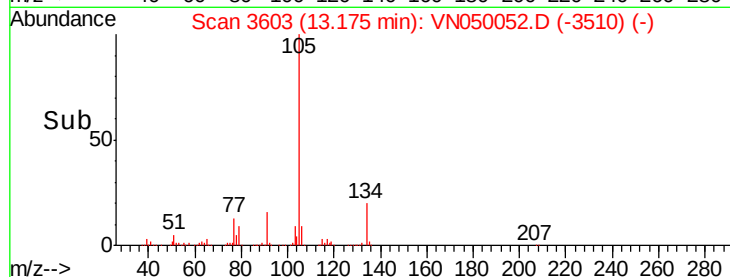
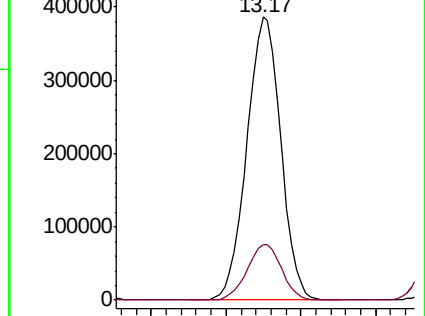
MMDadoda

7/26/2018 3:55:05 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.55 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

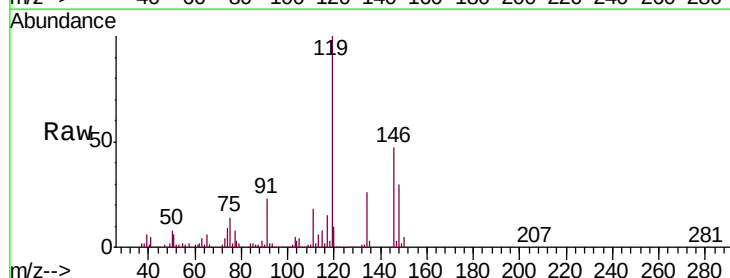
Tgt Ion:119 Resp: 515324

Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.8

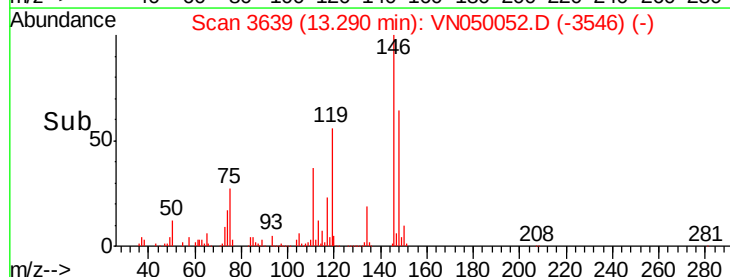
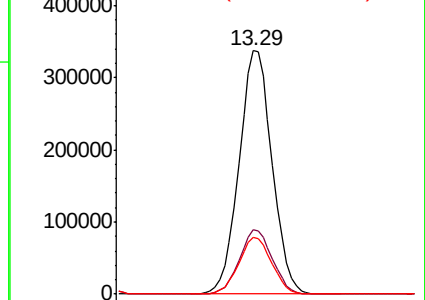
91 23.3 11.4 34.2

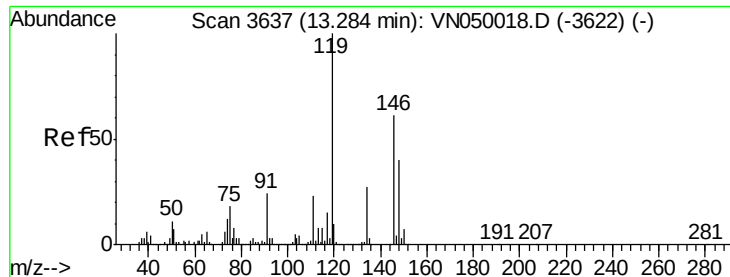


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 20.06 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. -0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

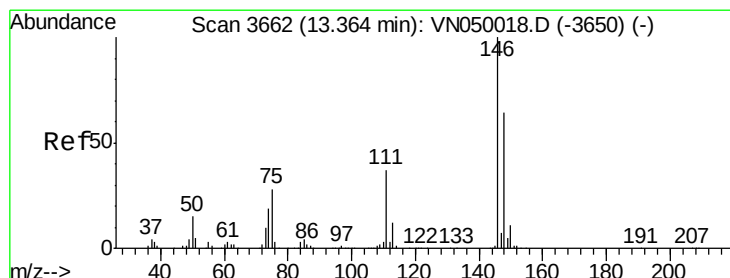
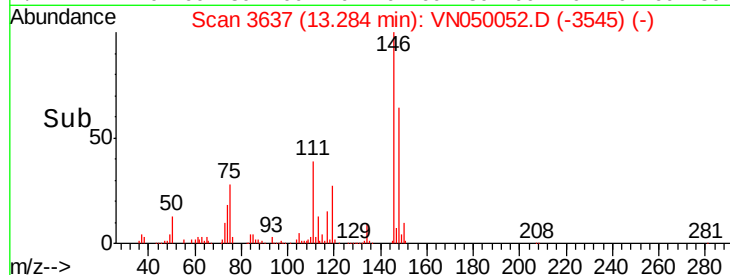
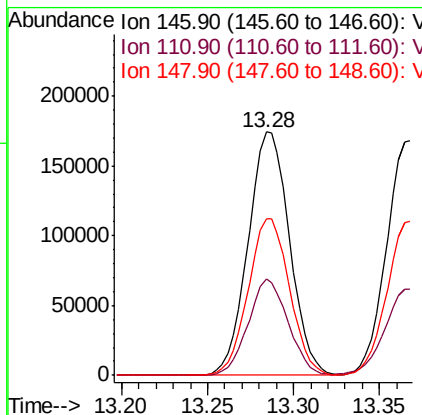
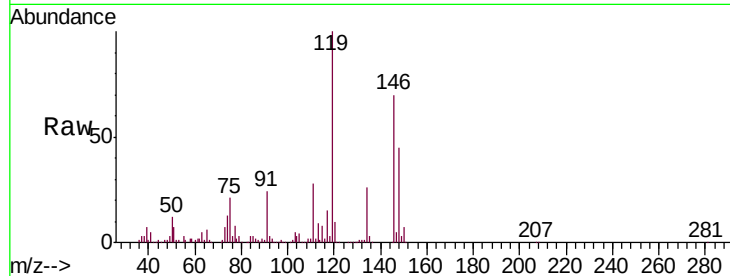
ClientSampleId :

VN0725WBSD02

Tot Ion:	146	Resp:	291615
Ion Ratio	Lower	Upper	
146	100		
111	38.1	18.8	56.4
148	64.0	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM



#88

1,4-Dichlorobenzene

Concen: 20.01 ug/l

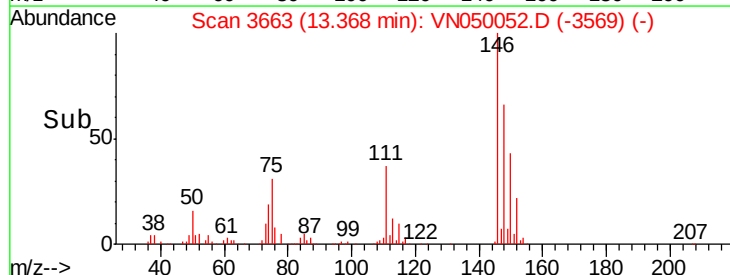
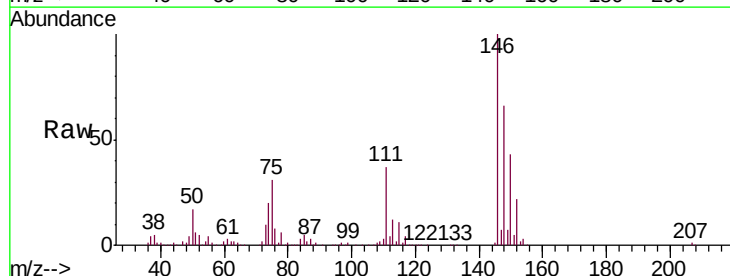
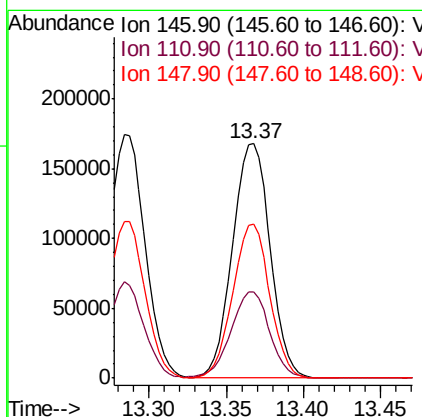
RT: 13.37 min Scan# 3663

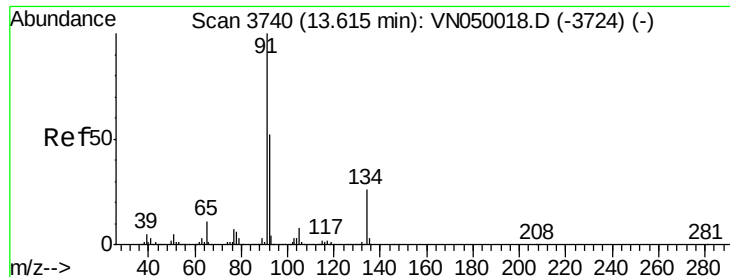
Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Tgt Ion:	146	Resp:	283445
Ion Ratio	Lower	Upper	
146	100		
111	38.0	18.3	54.9
148	64.7	31.9	95.9





#89

n-Butylbenzene

Concen: 19.87 ug/l

RT: 13.62 min Scan# 3741

Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Instrument :

MSVOA_N

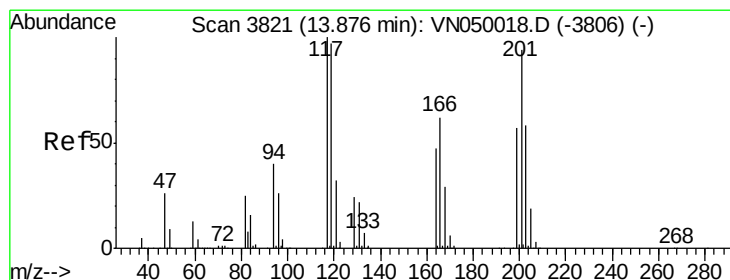
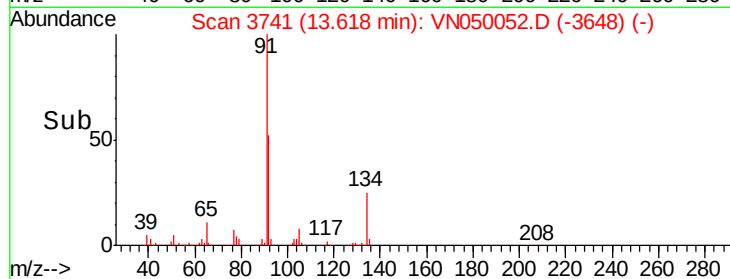
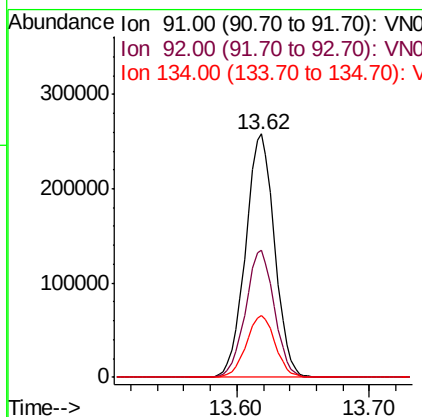
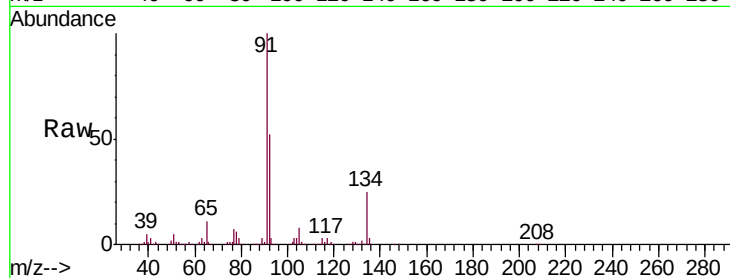
ClientSampleId :

VN0725WBSD02

Tot Ion:	91	Resp:	390628
Ion Ratio	Lower	Upper	
91	100		
92	51.8	25.8	77.4
134	25.3	12.8	38.4

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM



#90

Hexachloroethane

Concen: 19.00 ug/l

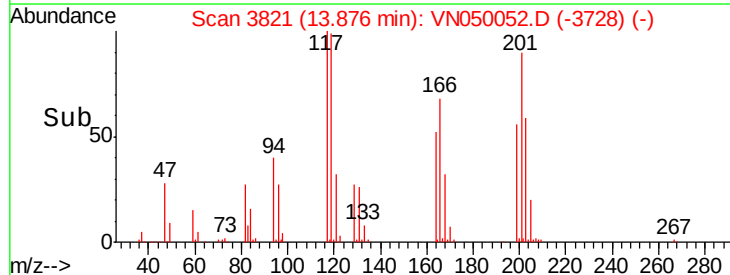
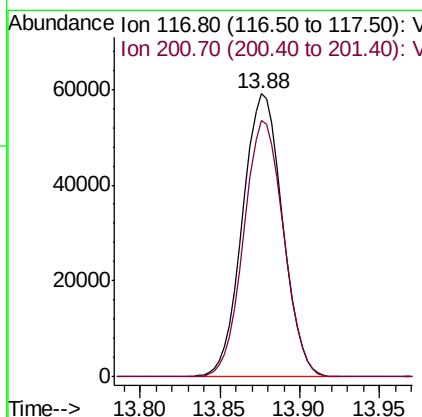
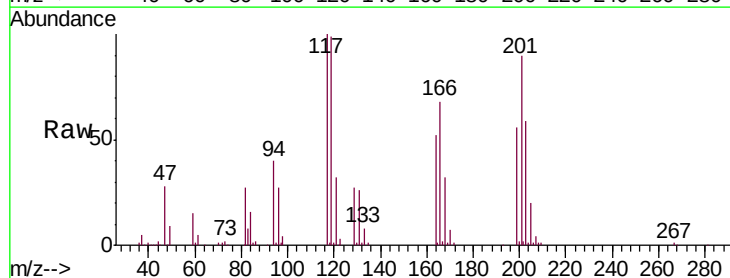
RT: 13.88 min Scan# 3821

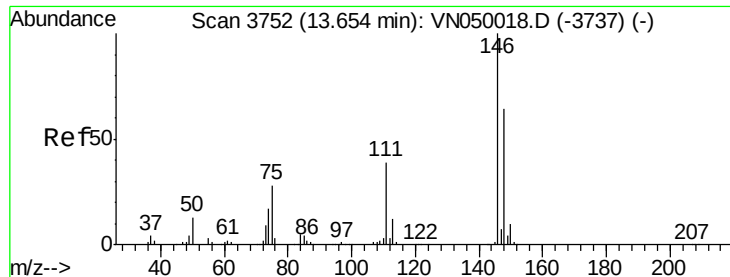
Delta R.T. 0.00 min

Lab File: VN050052.D

Acq: 25 Jul 2018 19:20

Tgt Ion:	117	Resp:	100879
Ion Ratio	Lower	Upper	
117	100		
201	89.9	45.6	136.8





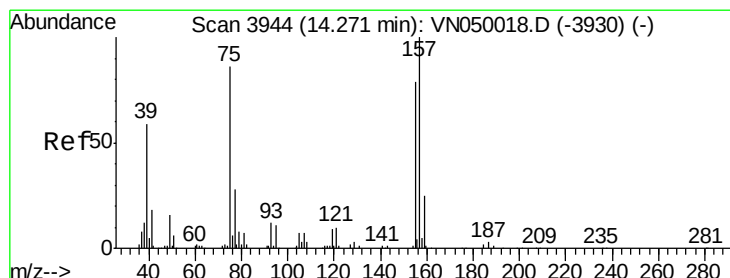
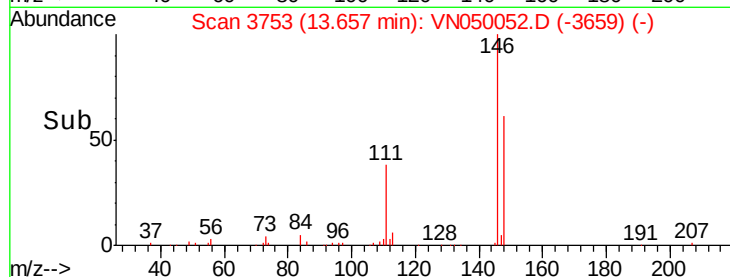
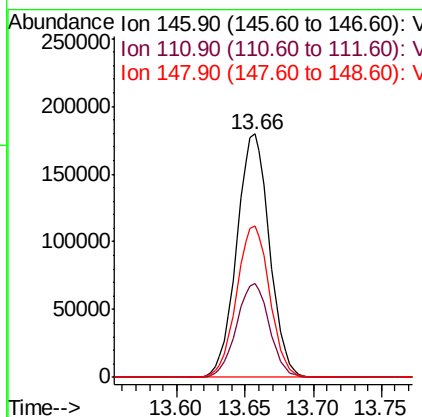
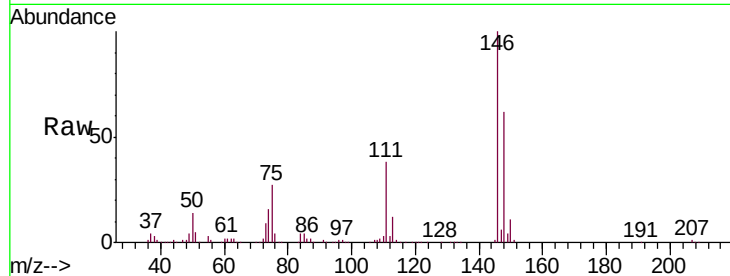
#91
 1,2-Dichlorobenzene
 Concen: 20.54 ug/l
 RT: 13.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.6	58.7
148	63.0	32.1	96.3

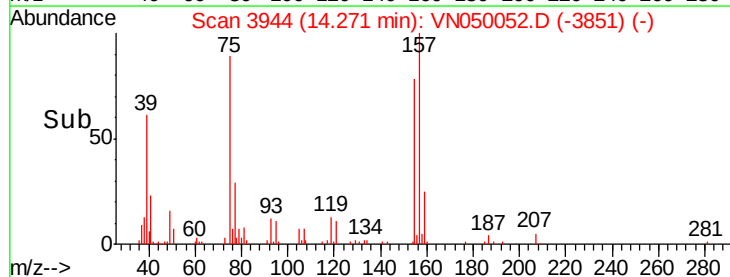
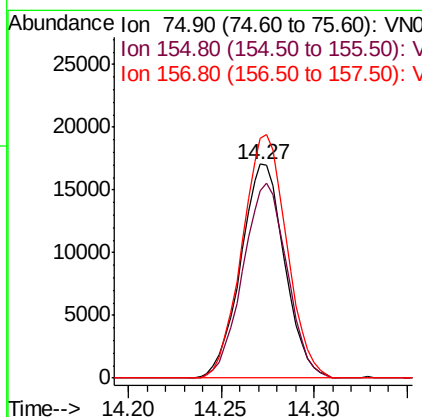
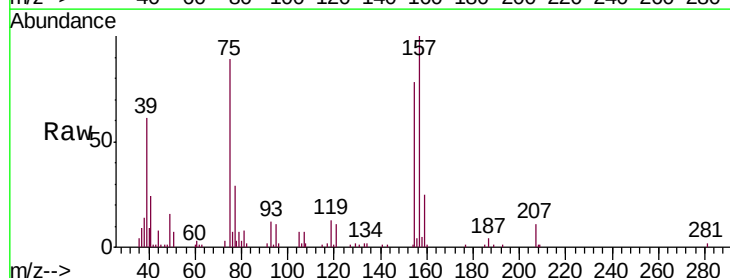
Manual Integrations
 APPROVED

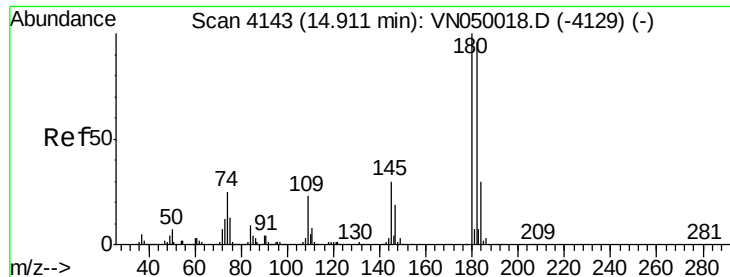
MMDadoda
 7/26/2018 3:55:05 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.88 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050052.D
 Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.6	44.8	134.4
157	115.3	57.2	171.6





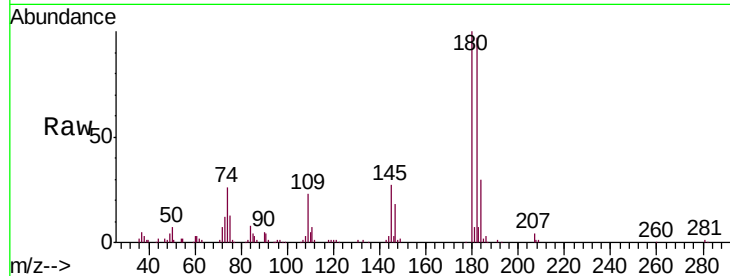
#93
1,2,4-Trichlorobenzene
Concen: 18.43 ug/l
RT: 14.91 min Scan# 4144
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	46.7	140.1
145	27.9	13.8	41.4

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM

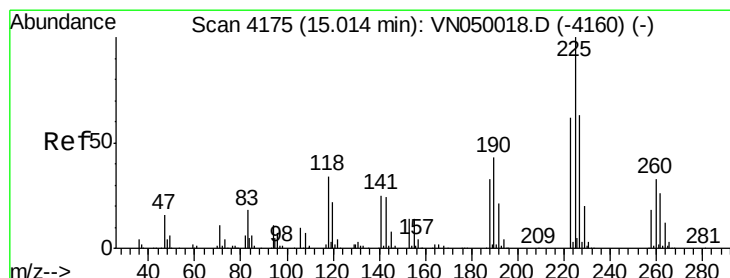
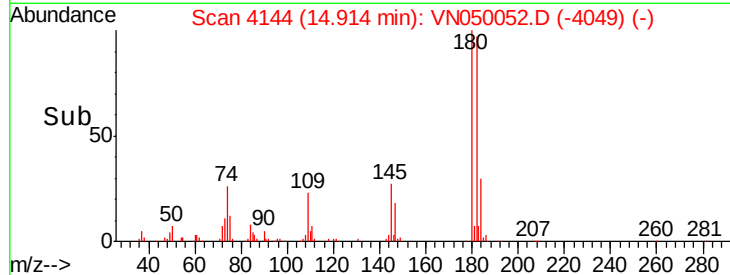
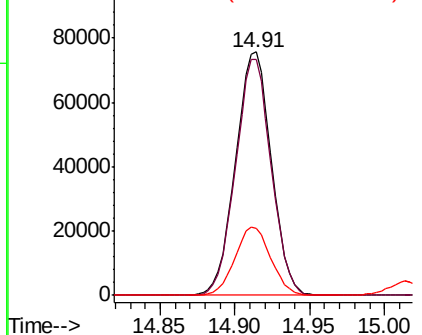


Abundance

Ion 179.80 (179.50 to 180.50): V

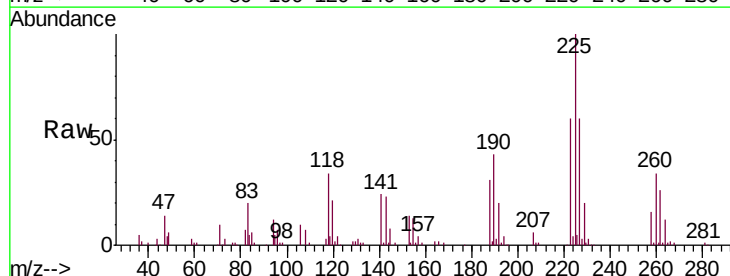
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
Hexachlorobutadiene
Concen: 20.46 ug/l
RT: 15.01 min Scan# 4175
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.3	31.4	94.2
227	61.5	32.1	96.5

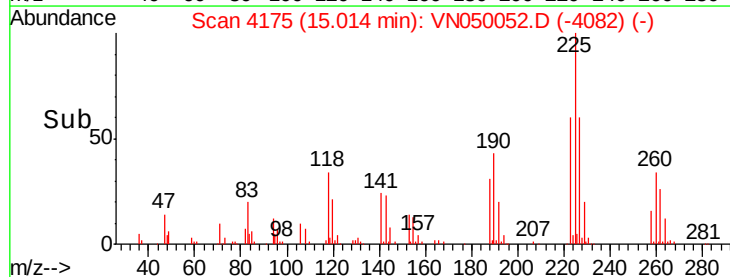
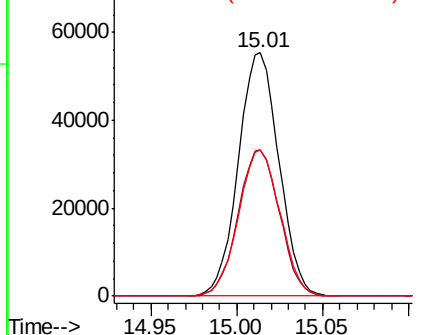


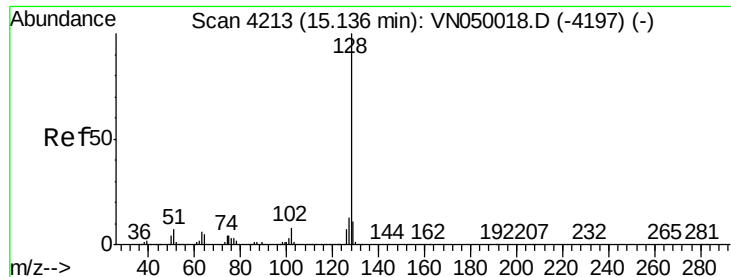
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





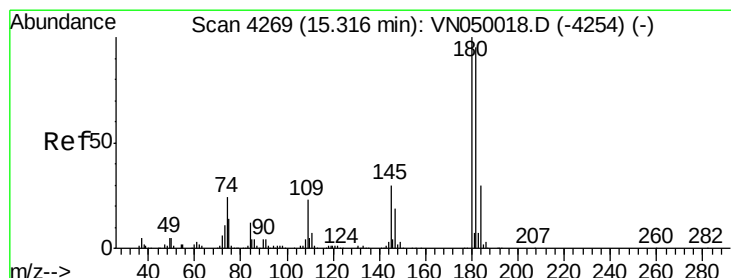
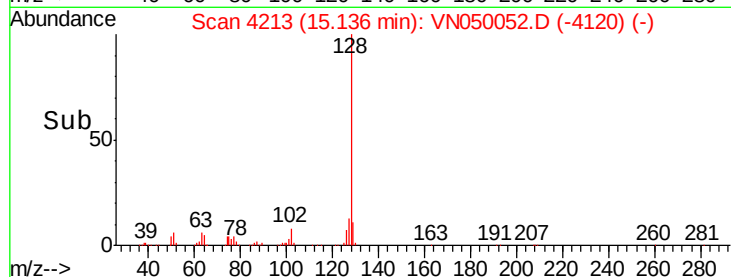
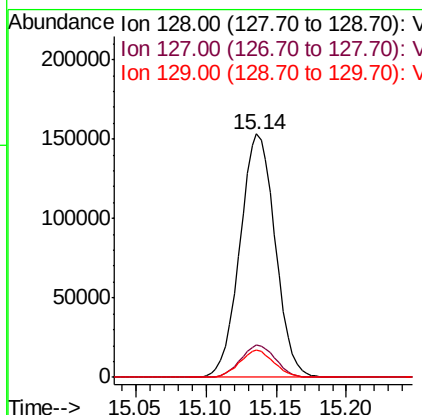
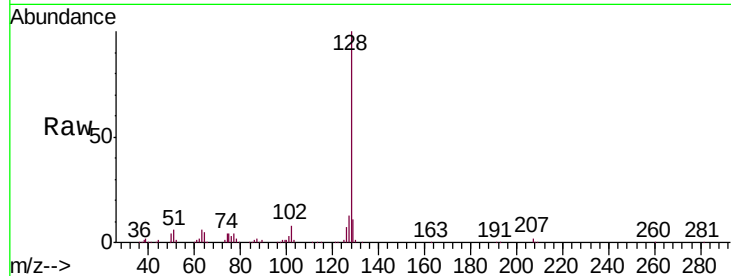
#95
Naphthalene
Concen: 17.85 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
128	100	268526		
127	13.0		10.4	15.6
129	10.9		8.8	13.2

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:55:05 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.34 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN050052.D
Acq: 25 Jul 2018 19:20

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	134557		
182	93.9		48.1	144.4
145	31.0		15.3	45.9

