

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101818\
 Data File : VN051912.D
 Acq On : 18 Oct 2018 13:21
 Operator : MD\SY
 Sample : VN1018WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1018WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 4:37:54 PM

Quant Time: Oct 18 15:05:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	162172	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	937954	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	817387	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	295996	30.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.00%
60) 4-Bromofluorobenzene	12.40	95	335782	28.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.97%
63) Toluene-d8	10.09	98	1075235	30.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.97%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	137039	21.75	ug/l	98
3) Chloromethane	2.06	50	125054	18.78	ug/l	100
4) Vinyl Chloride	2.19	62	187523	18.86	ug/l	99
5) Bromomethane	2.57	94	165498	18.84	ug/l	91
6) Chloroethane	2.71	64	141137	19.69	ug/l	94
7) Trichlorofluoromethane	3.01	101	304197	21.46	ug/l	96
8) Diethyl Ether	3.41	74	83706	20.28	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.76	101	177132	21.94	ug/l #	41
10) 1,1-Dichloroethene	3.73	96	150377	20.14	ug/l	90
11) Methyl Iodide	3.95	142	199933	18.42	ug/l	94
12) Methyl Acetate	4.33	43	91480	19.73	ug/l	96
13) Acrolein	3.61	56	19695	64.47	ug/l #	46
14) Acrylonitrile	4.99	53	191934	92.62	ug/l #	61
15) Acetone	3.82	58	50045	97.70	ug/l	94
16) Carbon Disulfide	4.05	76	354149	18.06	ug/l	99
17) Allyl chloride	4.32	41	165911	18.72	ug/l	73
18) Methylene Chloride	4.55	84	168085	20.13	ug/l	89
19) trans-1,2-Dichloroethene	5.05	96	168734	19.79	ug/l	82
20) Diisopropyl ether	5.96	45	378378	19.17	ug/l #	83
21) 1,1-Dichloroethane	5.85	63	276189	20.02	ug/l	97
22) cis-1,2-Dichloroethene	6.83	96	200448	20.02	ug/l #	80
23) tert-Butyl Alcohol	4.79	59	42843	78.50	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	424581	19.74	ug/l #	69
25) Chloroform	7.37	83	330770	20.21	ug/l	99
26) Cyclohexane	7.65	56	222338	19.01	ug/l #	67
29) 1,1-Dichloropropene	7.79	75	230879	19.10	ug/l	94
30) 2-Butanone	6.84	43	219968	87.05	ug/l #	86
31) 2,2-Dichloropropane	6.82	77	263262	18.51	ug/l #	77
32) 1,1,1-Trichloroethane	7.57	97	308285	19.23	ug/l	94
33) Carbon Tetrachloride	7.77	117	273786	18.88	ug/l	93
34) Benzene	8.04	78	680041	19.02	ug/l #	66
35) Methacrylonitrile	7.17	41	46008	13.86	ug/l	81
36) 1,2-Dichloroethane	8.13	62	214901	18.75	ug/l	97
37) Trichloroethene	8.84	130	216316	19.48	ug/l	97
38) Methylcyclohexane	9.08	83	296304	19.11	ug/l	78
39) 1,2-Dichloropropane	9.12	63	160812	19.09	ug/l	99
40) Dibromomethane	9.21	93	117660	18.82	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101818\
 Data File : VN051912.D
 Acq On : 18 Oct 2018 13:21
 Operator : MD\SY
 Sample : VN1018WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1018WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 4:37:54 PM

Quant Time: Oct 18 15:05:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	240848	18.65	ug/l	95
42) Vinyl Acetate	5.90	43	1257300	88.38	ug/l #	89
43) Ethyl Acetate	6.93	43	88854	16.19	ug/l	100
44) Isopropyl Acetate	8.17	43	193453	17.65	ug/l	96
45) 1,4-Dioxane	9.20	88	30063	341.61	ug/l #	75
46) Methyl methacrylate	9.20	41	85906	16.99	ug/l	64
47) n-amyl Acetate	12.07	43	135877	14.81	ug/l #	73
48) t-1,3-Dichloropropene	10.38	75	216107	17.16	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	249281	17.96	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	167180	19.36	ug/l	95
51) Ethyl methacrylate	10.43	69	171864	17.38	ug/l	83
52) 1,3-Dichloropropane	10.71	76	252395	18.94	ug/l	98
53) Dibromochloromethane	10.90	129	191289	17.90	ug/l	94
54) 1,2-Dibromoethane	11.01	107	166149	18.33	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	357876	84.67	ug/l #	92
56) Bromoform	12.13	173	111535	15.83	ug/l #	89
58) 4-Methyl-2-Pentanone	9.99	43	517905	94.68	ug/l #	87
59) 2-Hexanone	10.75	43	318764	86.38	ug/l #	89
61) Tetrachloroethene	10.63	164	220983	21.14	ug/l	97
62) Toluene	10.16	91	803892	19.80	ug/l	99
64) Chlorobenzene	11.43	112	517843	19.47	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.51	131	198627	19.46	ug/l	99
66) Ethyl Benzene	11.51	91	861930	19.21	ug/l	99
67) m/p-Xylenes	11.62	106	690533	37.95	ug/l	97
68) o-Xylene	11.95	106	340912	19.01	ug/l	90
69) Styrene	11.96	104	507197	18.43	ug/l	96
70) Isopropylbenzene	12.25	105	923672	19.31	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	179778	19.03	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	146733m	19.75	ug/l	
73) Bromobenzene	12.53	156	221266	18.68	ug/l	82
74) n-propylbenzene	12.59	91	975321	18.96	ug/l	95
75) 2-Chlorotoluene	12.67	91	576975	19.13	ug/l	93
76) 1,3,5-Trimethylbenzene	12.73	105	753526	19.05	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	35729	14.54	ug/l	98
78) 4-Chlorotoluene	12.77	91	546204	18.43	ug/l	91
79) tert-butylbenzene	12.99	119	696515	19.15	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	746795	18.89	ug/l	97
81) sec-Butylbenzene	13.17	105	911004	19.15	ug/l	97
82) p-Isopropyltoluene	13.29	119	787888	18.50	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	378708	18.12	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	344769	17.52	ug/l	98
85) n-Butylbenzene	13.62	91	575172	17.91	ug/l	95
86) Hexachloroethane	13.87	117	129936	17.70	ug/l	89
87) 1,2-Dichlorobenzene	13.65	146	371632	18.36	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	23205	16.45	ug/l #	70
89) 1,2,4-Trichlorobenzene	14.91	180	133009	17.68	ug/l	99
90) Hexachlorobutadiene	15.01	225	129441	19.85	ug/l	96
91) Naphthalene	15.13	128	243959	17.35	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	144340	15.68	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101818\
Data File : VN051912.D
Acq On : 18 Oct 2018 13:21
Operator : MD\SY
Sample : VN1018WBS01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM

Quant Time: Oct 18 15:05:57 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 12 10:23:44 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

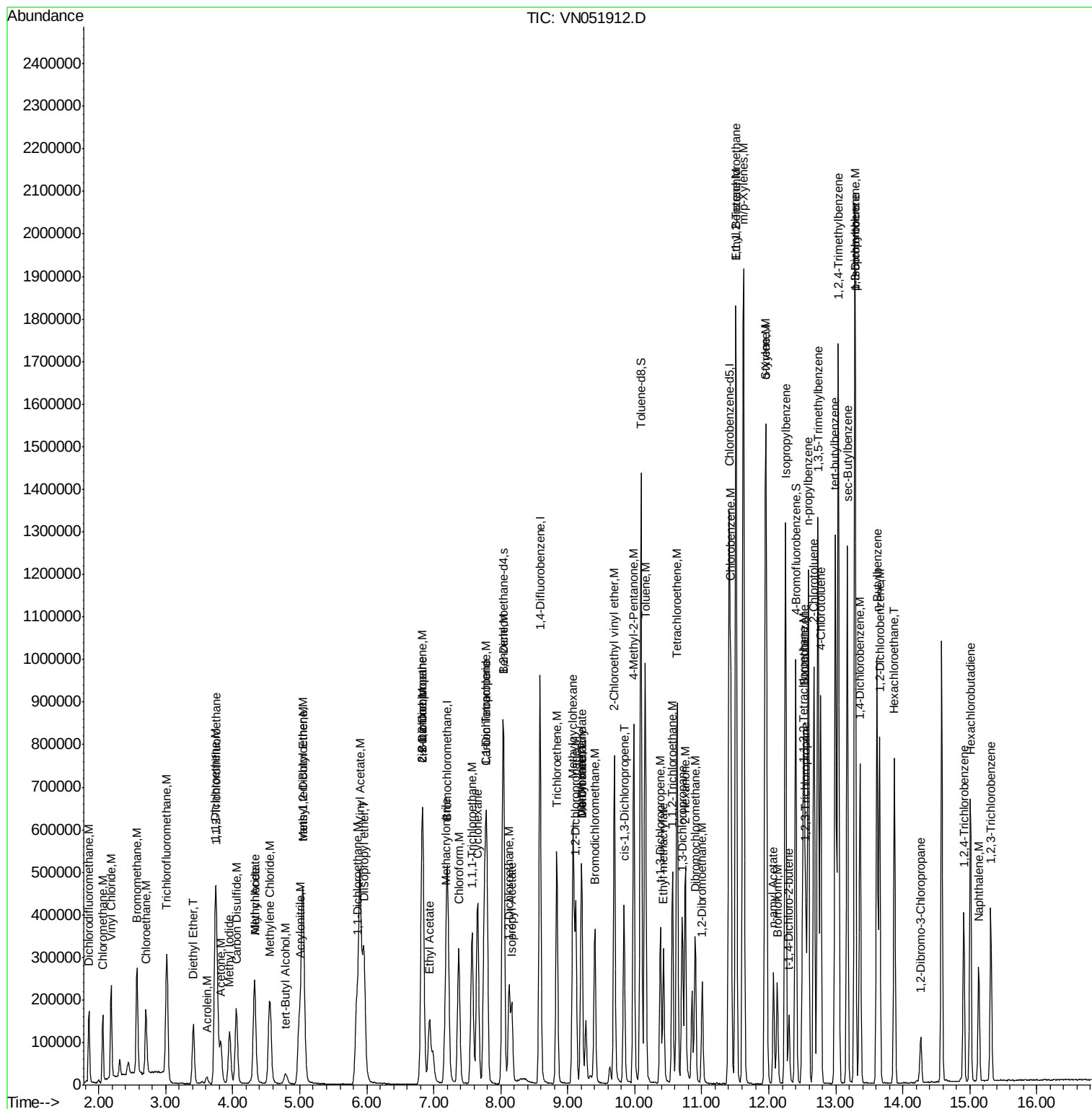
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101818\
Data File : VN051912.D
Acq On : 18 Oct 2018 13:21
Operator : MD\SY
Sample : VN1018WBS01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 28

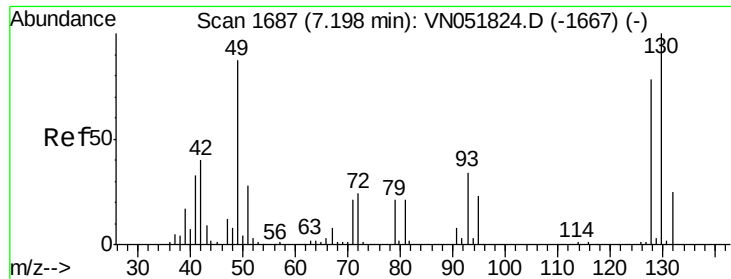
Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM

Quant Time: Oct 18 15:05:57 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 12 10:23:44 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

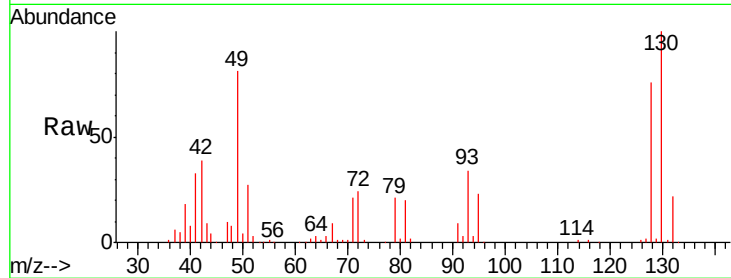
ClientSampleId :

VN1018WBS01

Tgt Ion:	128	Resp:	162172
Ion	Ratio	Lower	Upper
128	100		
49	108.8	0.0	403.3
130	131.6	0.0	326.0

Manual Integrations
APPROVED

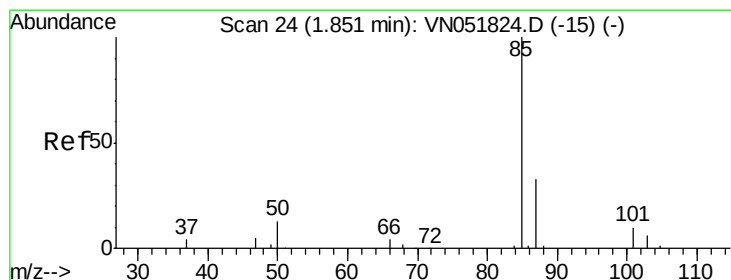
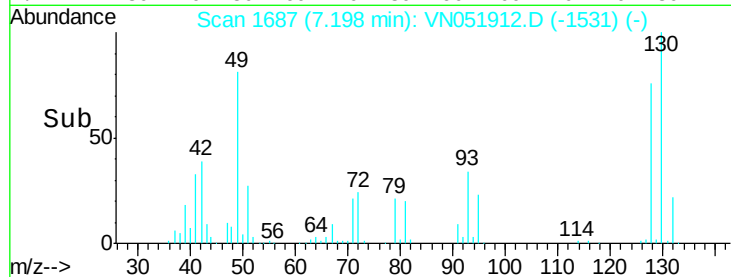
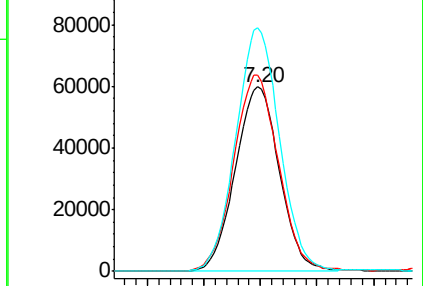
MMDadoda
10/19/2018 4:37:54 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 21.75 ug/l

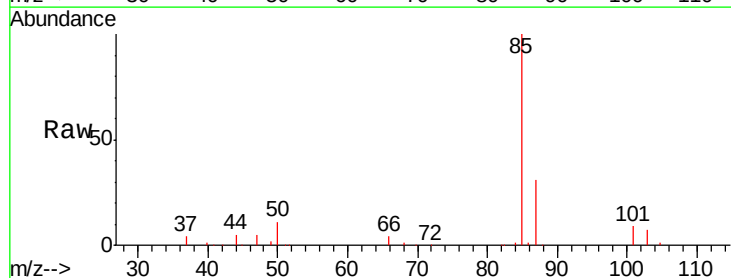
RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN051912.D

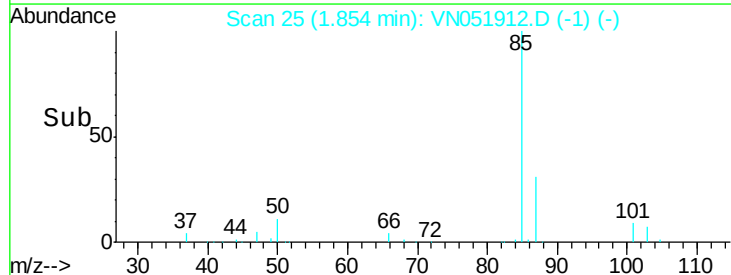
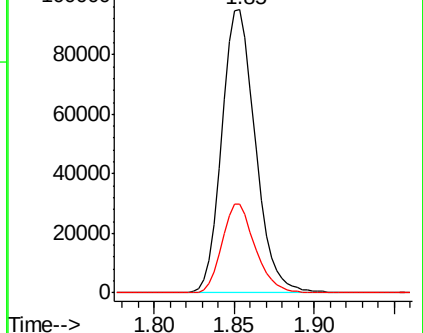
Acq: 18 Oct 2018 13:21

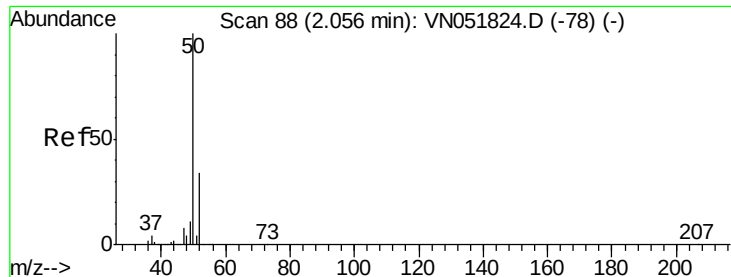
Tgt Ion:	85	Resp:	137039
Ion	Ratio	Lower	Upper
85	100		
87	31.2	16.3	48.8



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 18.78 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 50 Resp: 125054

Ion Ratio Lower Upper

50 100

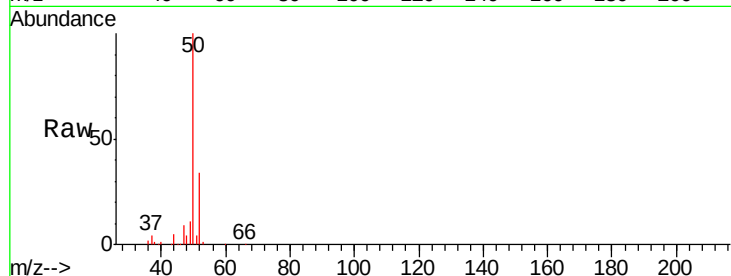
52 34.1 27.2 40.8

Manual Integrations

APPROVED

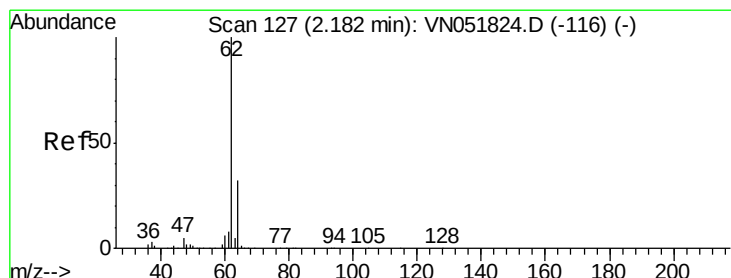
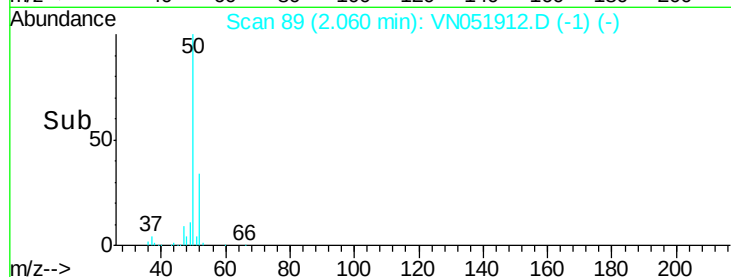
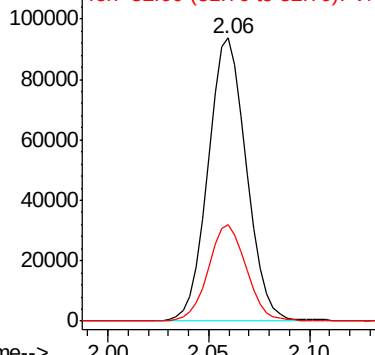
MMDadoda

10/19/2018 4:37:54 PM



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 18.86 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051912.D

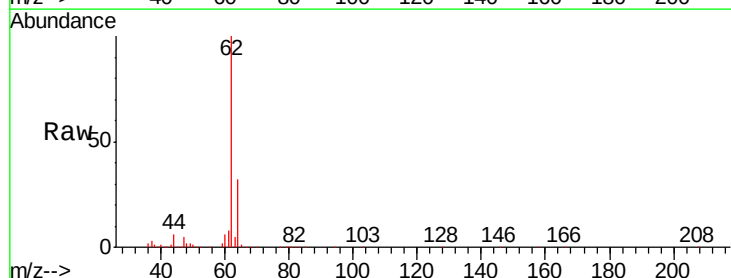
Acq: 18 Oct 2018 13:21

Tgt Ion: 62 Resp: 187523

Ion Ratio Lower Upper

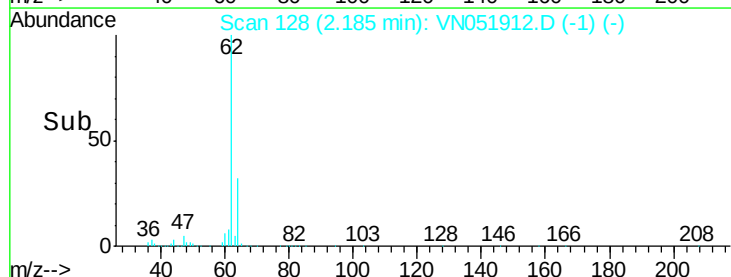
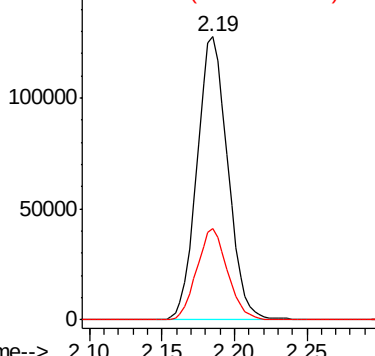
62 100

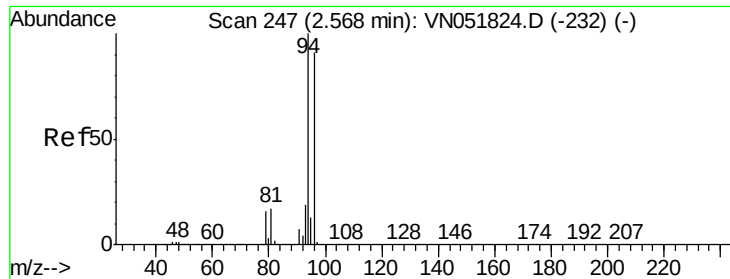
64 32.3 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 18.84 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 94 Resp: 165498

Ion Ratio Lower Upper

94 100

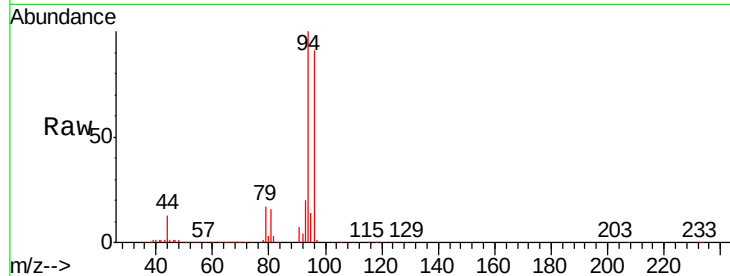
96 90.9 66.4 99.6

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:37:54 PM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

100000

80000

60000

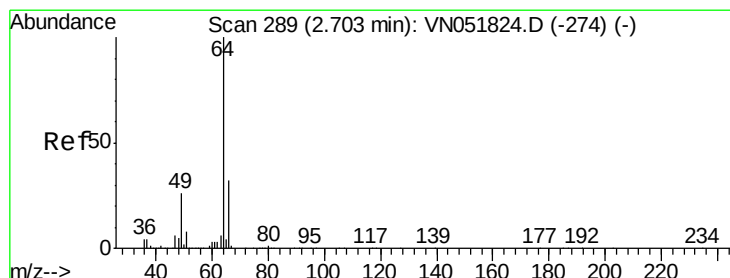
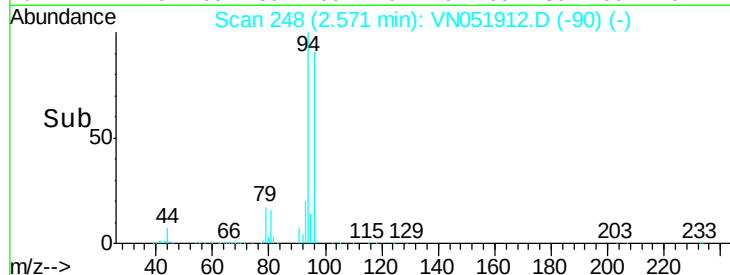
40000

20000

0

2.50 2.55 2.60

Time-->



#6

Chloroethane

Concen: 19.69 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN051912.D

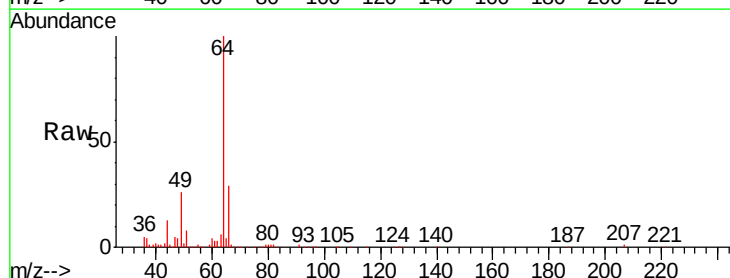
Acq: 18 Oct 2018 13:21

Tgt Ion: 64 Resp: 141137

Ion Ratio Lower Upper

64 100

66 28.7 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

80000

60000

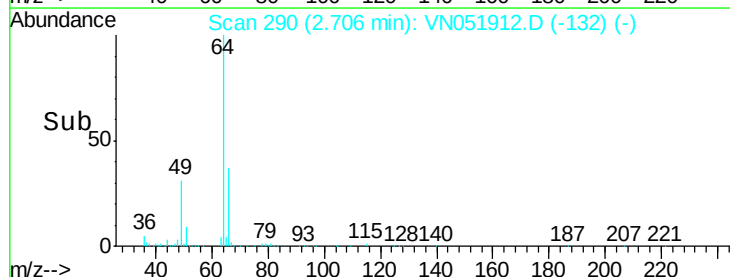
40000

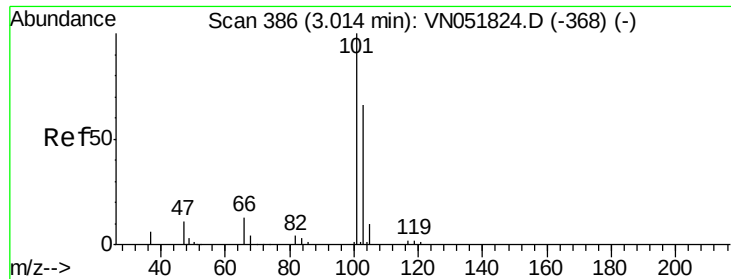
20000

0

2.60 2.65 2.70 2.75 2.80

Time-->





#7

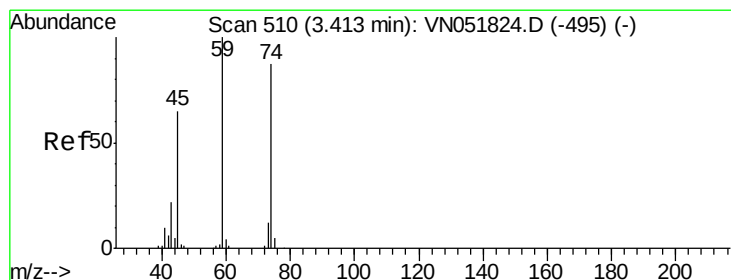
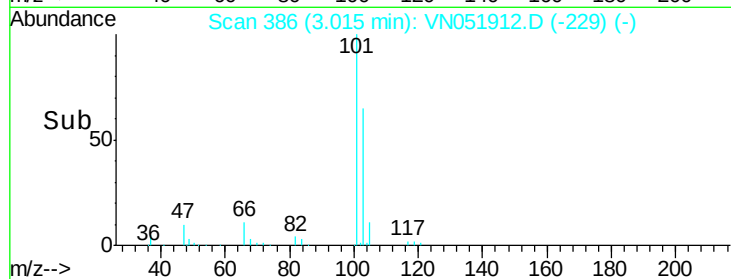
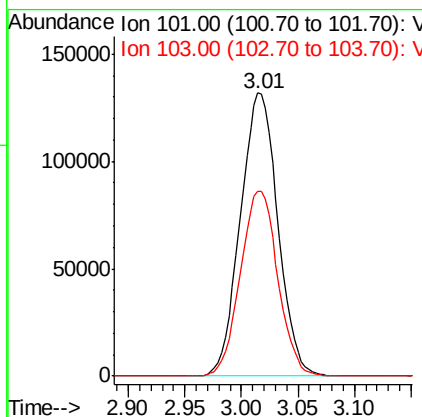
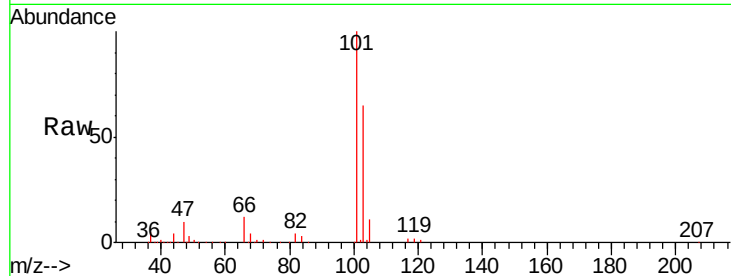
Trichlorofluoromethane
 Concen: 21.46 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	304197		
103	65.4	54.8	82.2	

Manual Integrations
 APPROVED

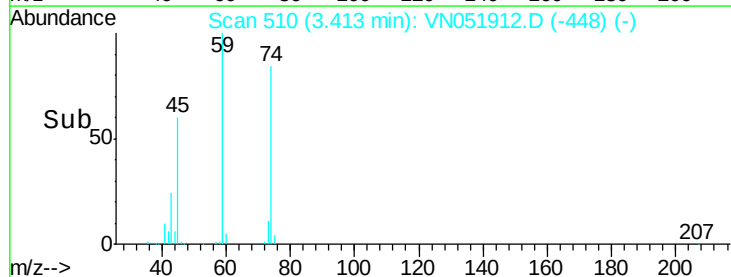
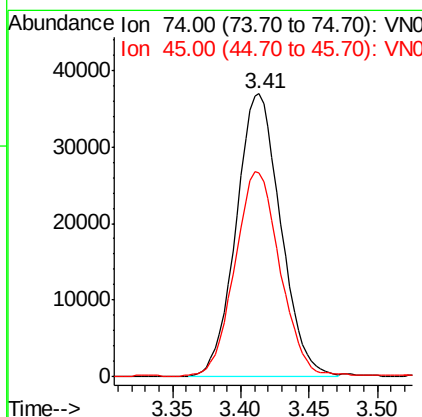
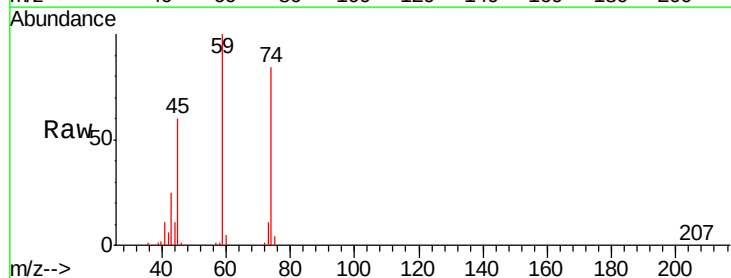
MMDadoda
 10/19/2018 4:37:54 PM

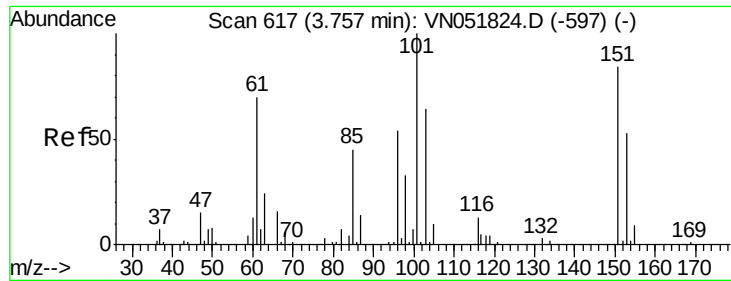


#8

Diethyl Ether
 Concen: 20.28 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	83706		
45	73.7	20.7	186.5	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.94 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

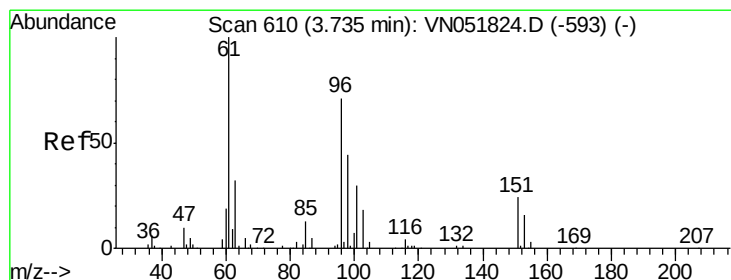
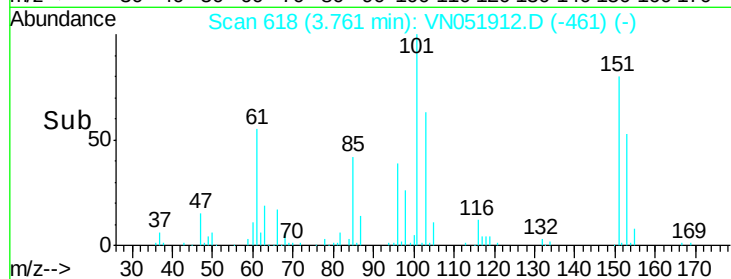
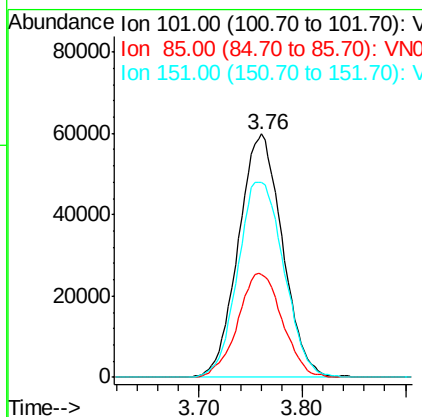
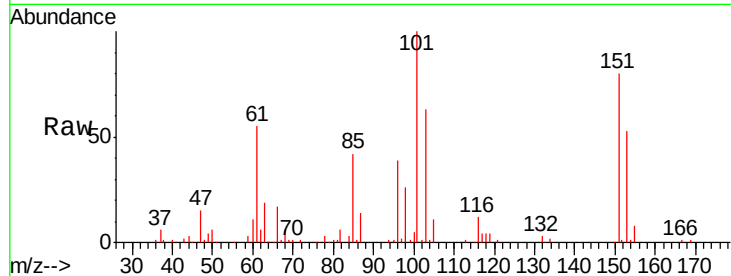
ClientSampleId :

VN1018WBS01

Tgt Ion:	101	Resp:	177132
Ion Ratio	Lower	Upper	
101	100		
85	43.4	0.0	46.0
151	84.2	0.0	82.2#

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#10

1,1-Dichloroethene

Concen: 20.14 ug/l

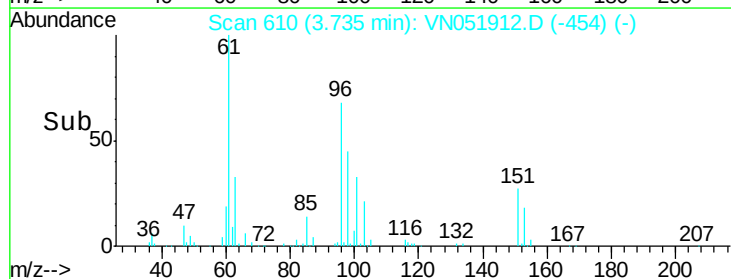
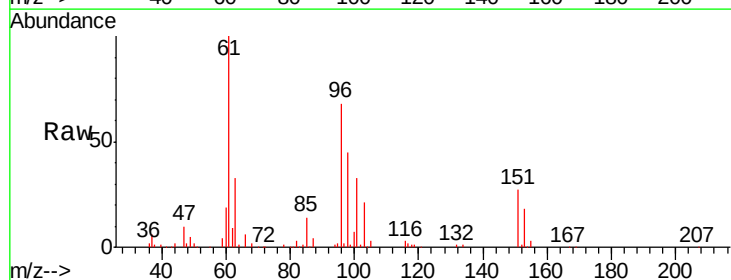
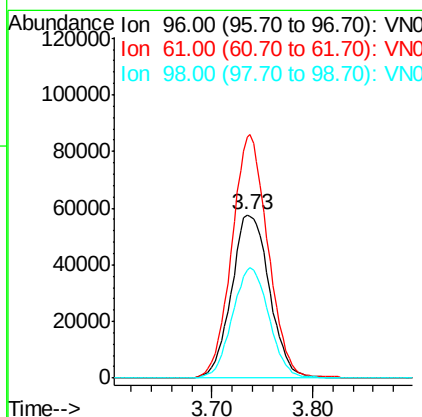
RT: 3.73 min Scan# 610

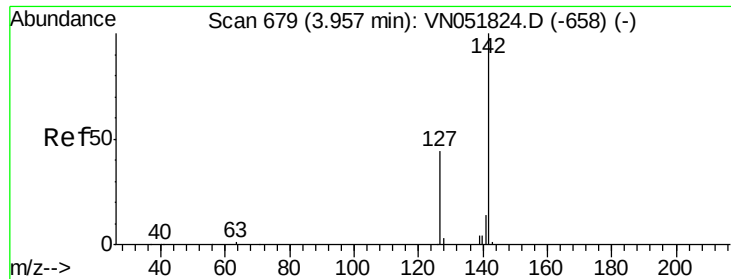
Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion:	96	Resp:	150377
Ion Ratio	Lower	Upper	
96	100		
61	147.3	133.0	199.6
98	66.3	52.6	78.8





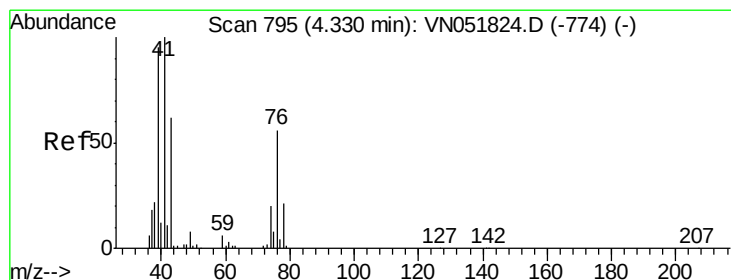
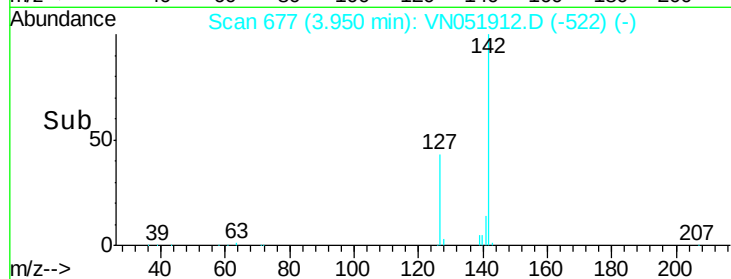
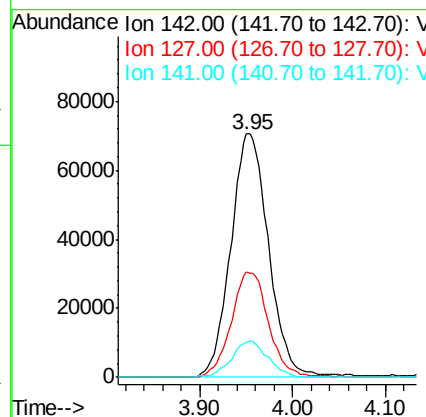
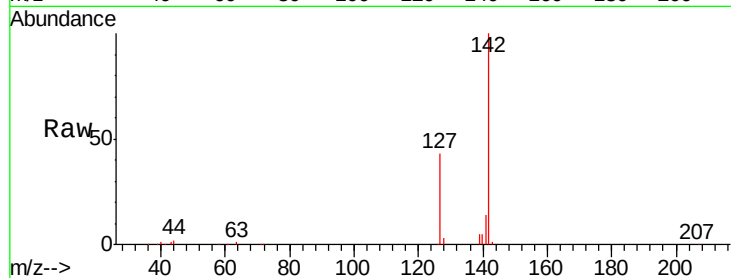
#11
Methyl Iodide
Concen: 18.42 ug/l
RT: 3.95 min Scan# 677
Delta R.T. -0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion	Ratio	Lower	Upper
142	100		
127	43.0	19.7	59.0
141	14.3	6.3	18.9

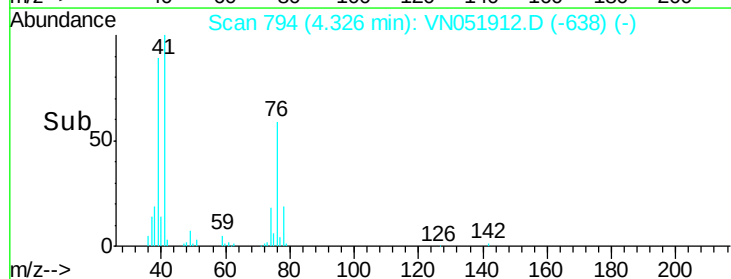
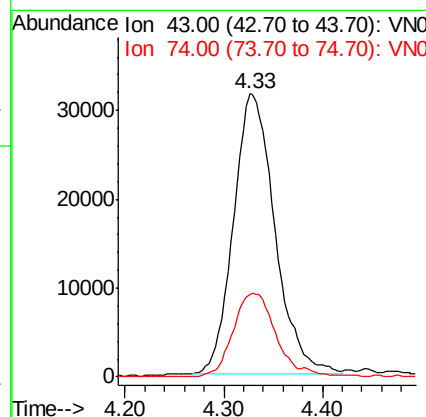
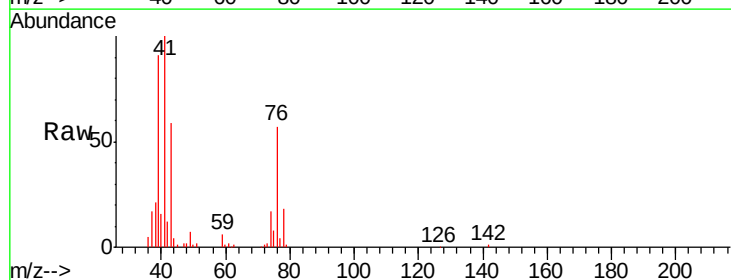
Manual Integrations
APPROVED

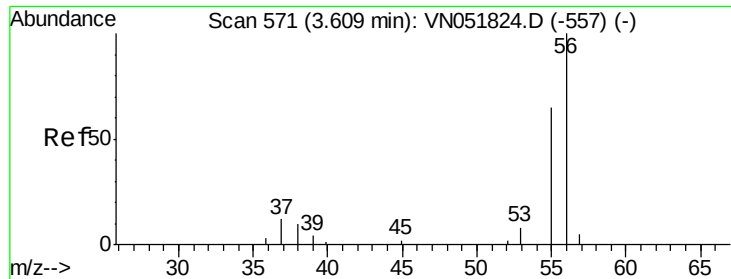
MMDadoda
10/19/2018 4:37:54 PM



#12
Methyl Acetate
Concen: 19.73 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Lower	Upper
43	100		
74	29.4	21.8	32.6





#13

Acrolein

Concen: 64.47 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 56 Resp: 19695

Ion Ratio Lower Upper

56 100

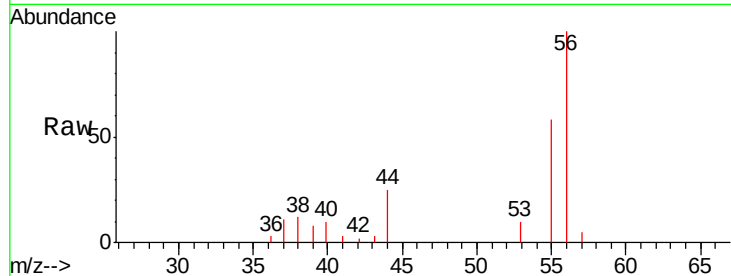
55 32.7 64.0 96.0#

Manual Integrations

APPROVED

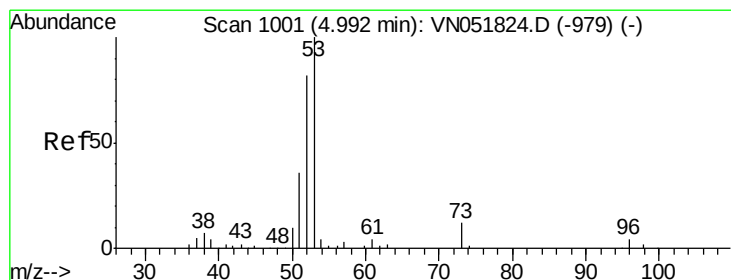
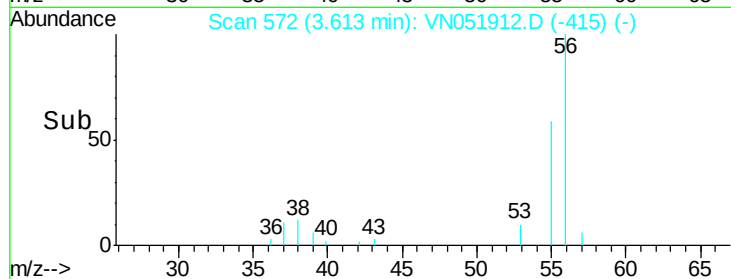
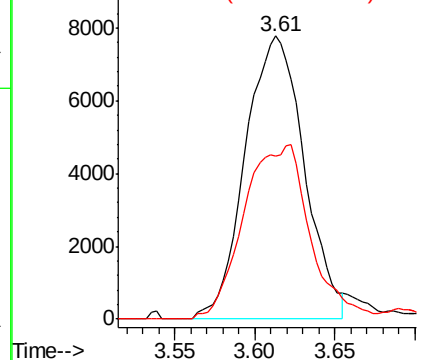
MMDadoda

10/19/2018 4:37:54 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 92.62 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

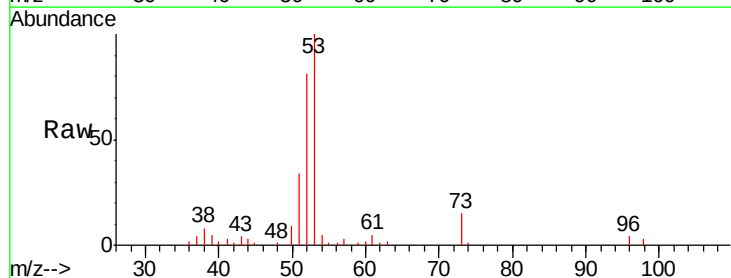
Tgt Ion: 53 Resp: 191934

Ion Ratio Lower Upper

53 100

52 82.4 18.3 54.8#

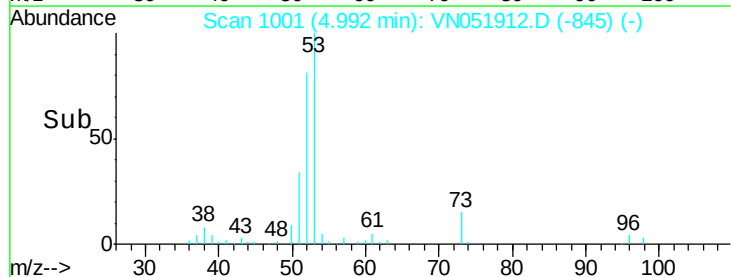
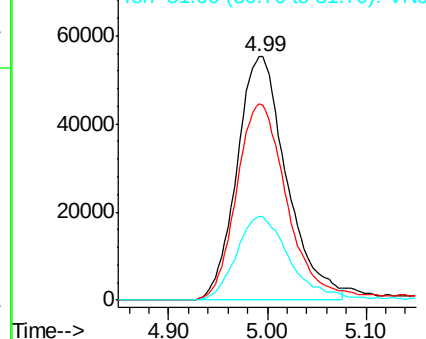
51 37.2 19.7 59.1

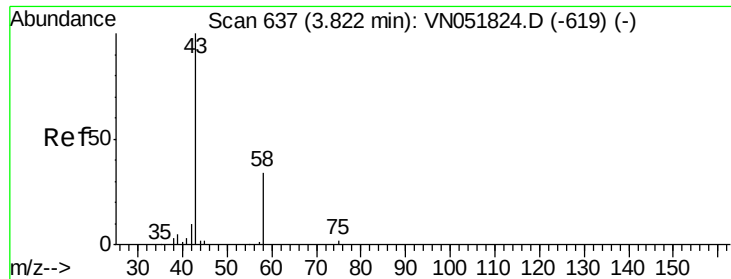


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 97.70 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 58 Resp: 50045

Ion Ratio Lower Upper

58 100

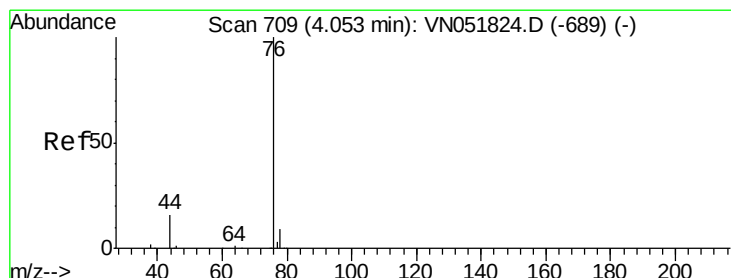
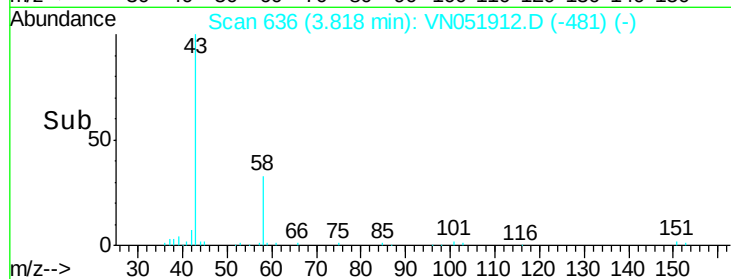
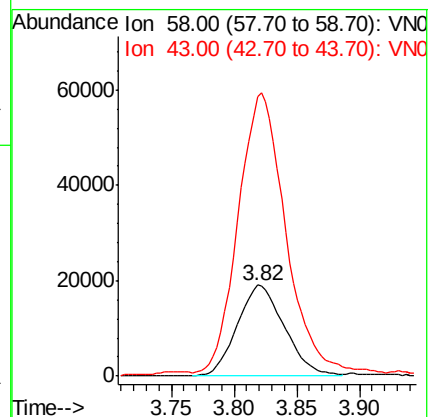
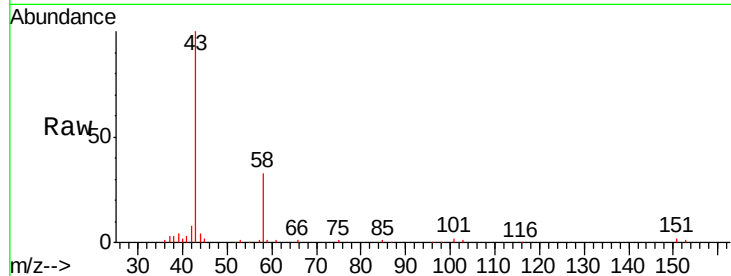
43 301.9 232.2 348.2

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:37:54 PM



#16

Carbon Disulfide

Concen: 18.06 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051912.D

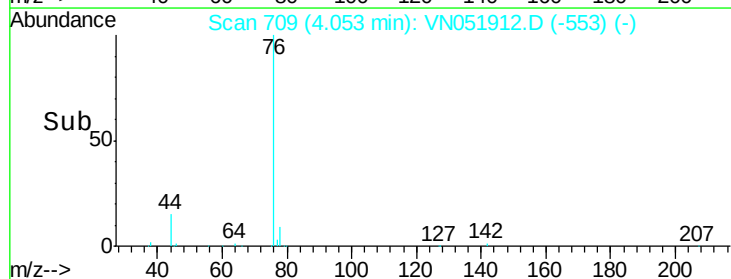
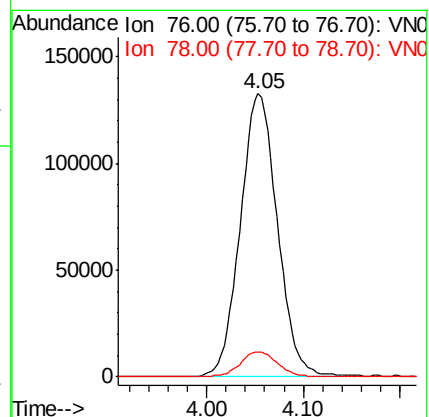
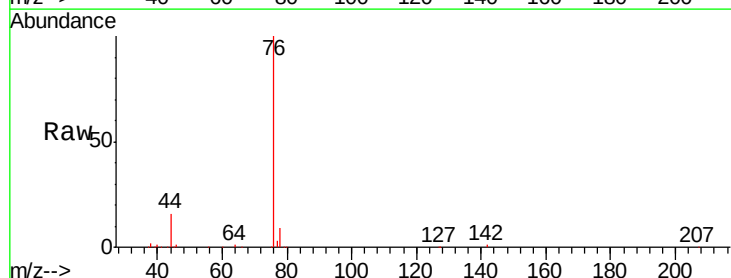
Acq: 18 Oct 2018 13:21

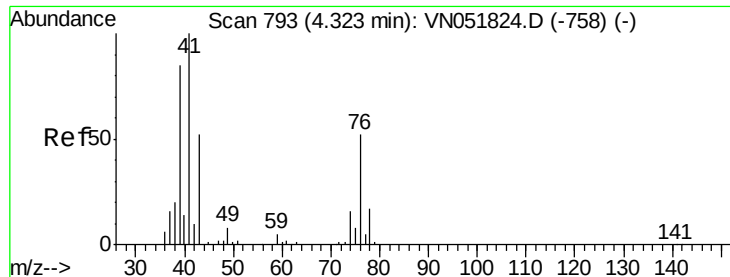
Tgt Ion: 76 Resp: 354149

Ion Ratio Lower Upper

76 100

78 8.9 6.7 10.1





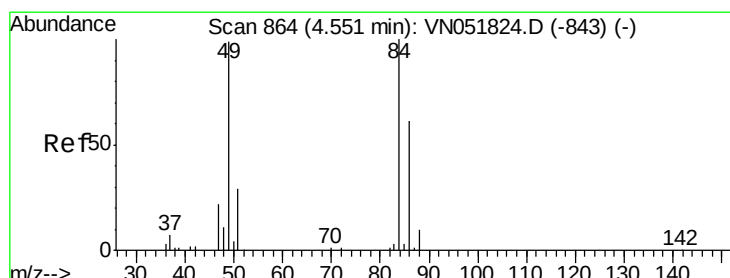
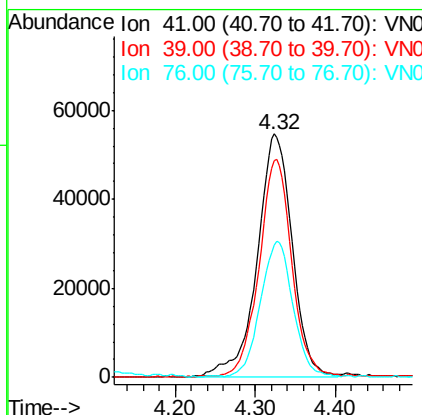
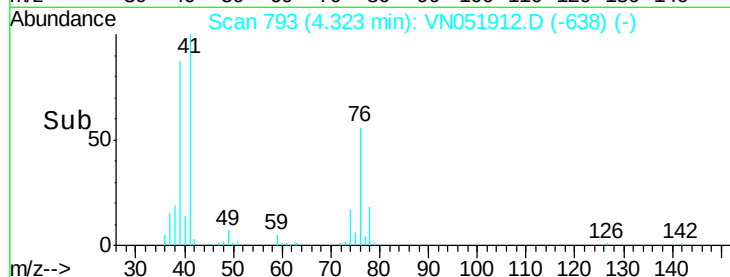
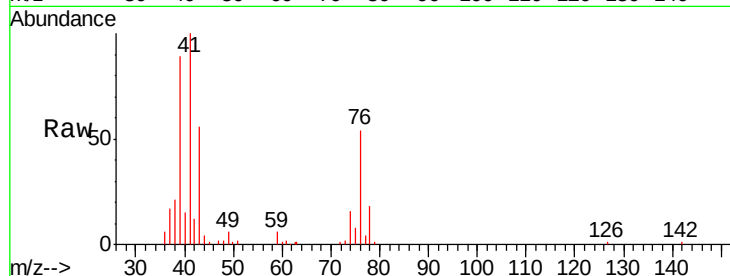
#17
 Allyl chloride
 Concen: 18.72 ug/l
 RT: 4.32 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBS01

Tgt Ion:	41	Resp:	165911
Ion	Ratio	Lower	Upper
41	100		
39	88.8	32.6	97.8
76	54.4	20.2	60.5

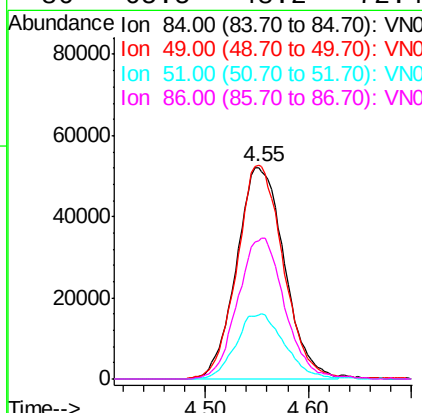
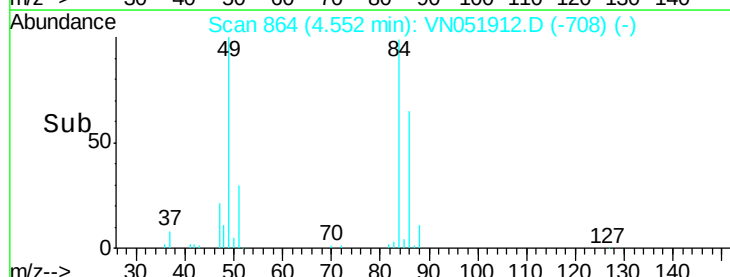
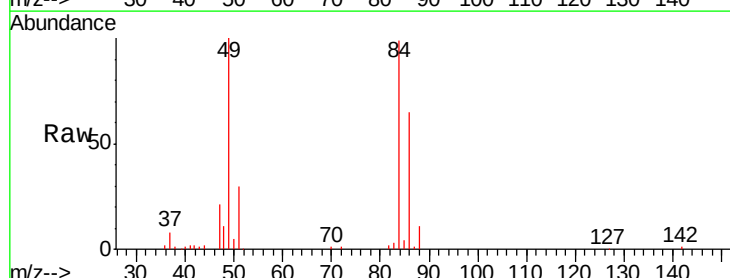
Manual Integrations
 APPROVED

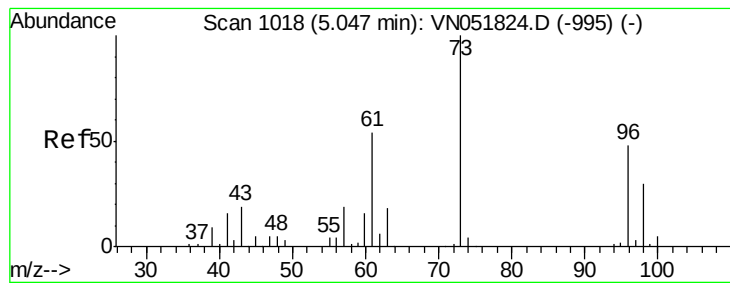
MMDadoda
 10/19/2018 4:37:54 PM



#18
 Methylene Chloride
 Concen: 20.13 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Tgt Ion:	84	Resp:	168085
Ion	Ratio	Lower	Upper
84	100		
49	100.4	91.6	137.4
51	30.0	29.8	44.6
86	65.5	48.2	72.4





#19

trans-1,2-Dichloroethene

Concen: 19.79 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

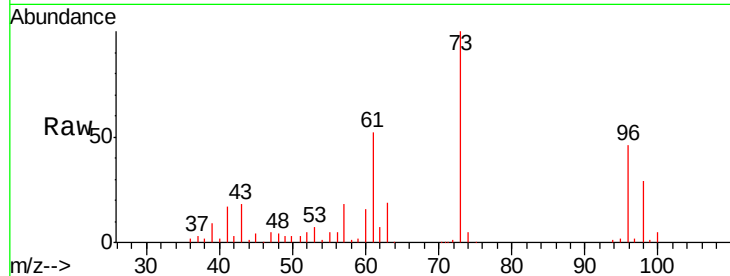
ClientSampleId :

VN1018WBS01

Tgt Ion:	96	Resp:	168734
Ion	Ratio	Lower	Upper
96	100		
61	112.4	112.3	168.5
98	63.3	47.1	70.7

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM

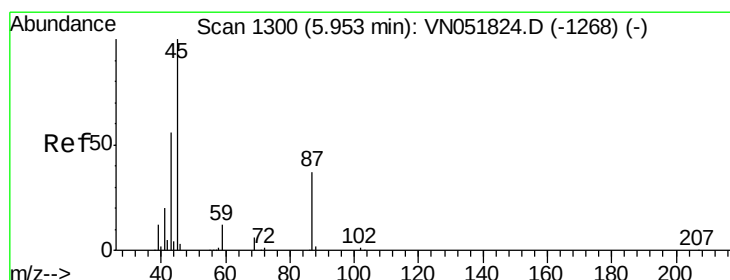
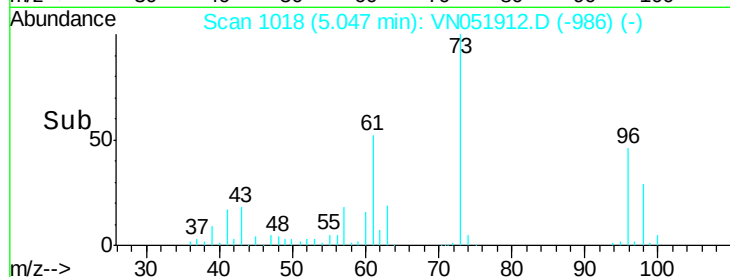
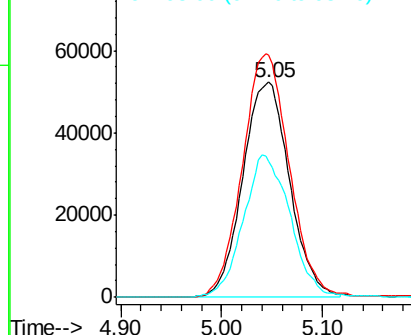


Abundance

Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#20

Diisopropyl ether

Concen: 19.17 ug/l

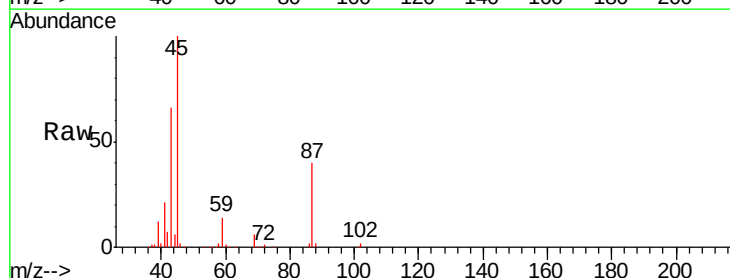
RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion:	45	Resp:	378378
Ion	Ratio	Lower	Upper
45	100		
43	64.6	62.1	93.1
87	39.5	19.9	29.9
59	13.8	9.8	14.6



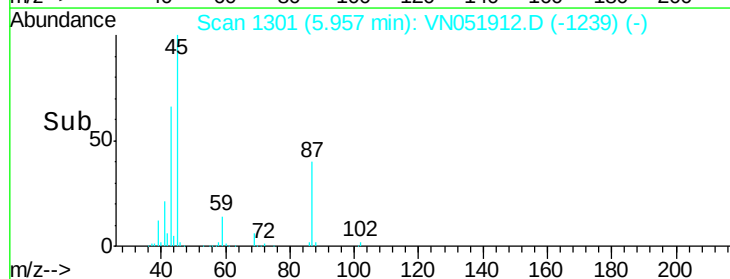
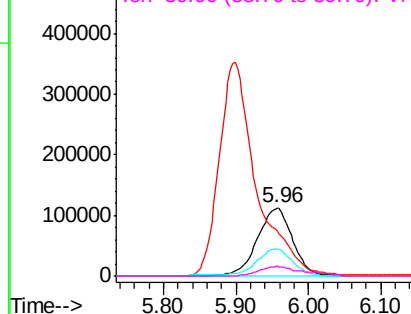
Abundance

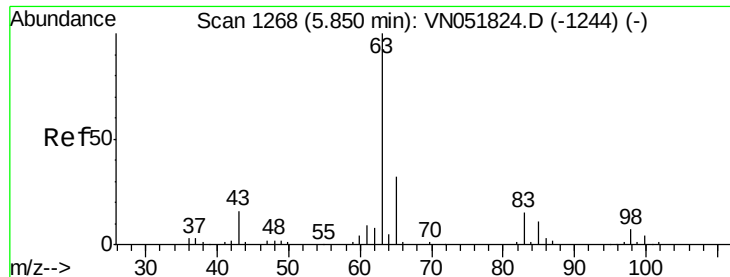
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#21

1,1-Dichloroethane

Concen: 20.02 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

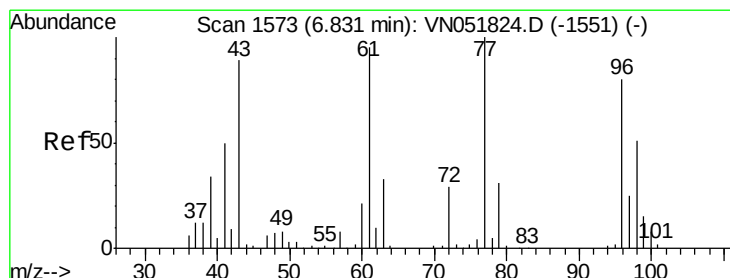
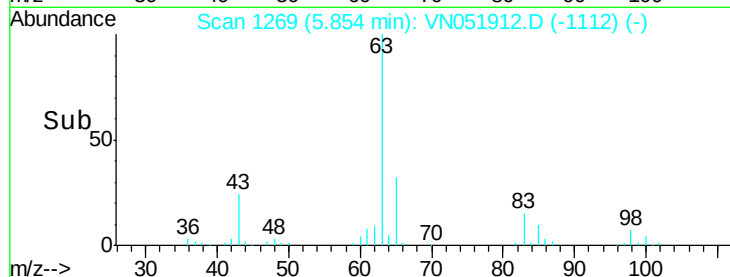
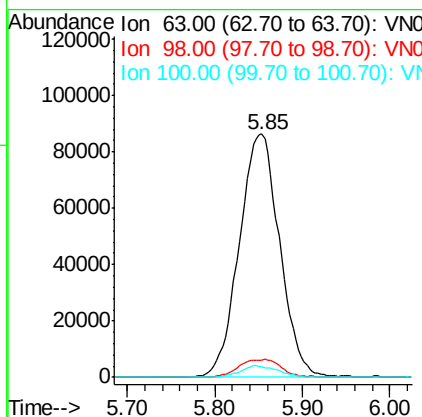
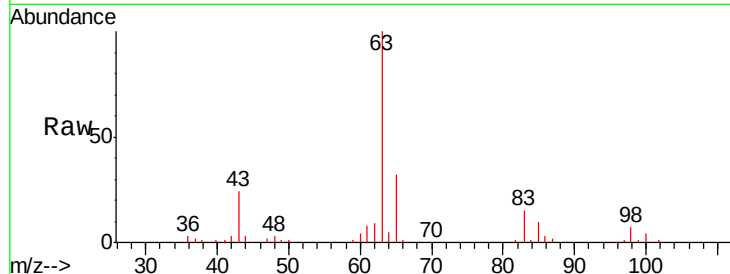
ClientSampleId :

VN1018WBS01

Tgt Ion:	63	Resp:	276189
Ion Ratio	Lower	Upper	
63	100		
98	7.2	4.1	12.3
100	4.3	1.6	4.7

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#22

cis-1,2-Dichloroethene

Concen: 20.02 ug/l

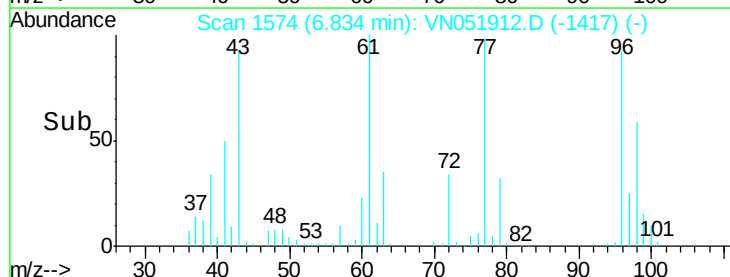
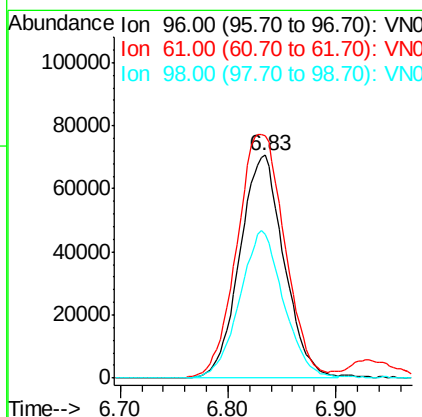
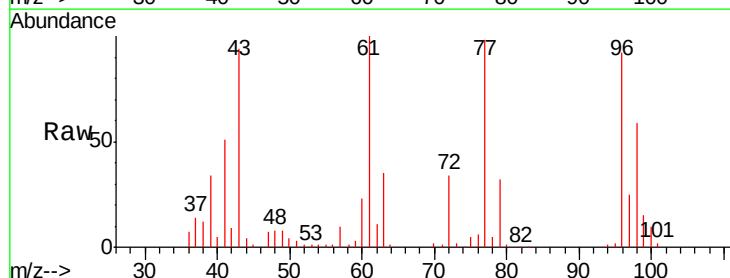
RT: 6.83 min Scan# 1574

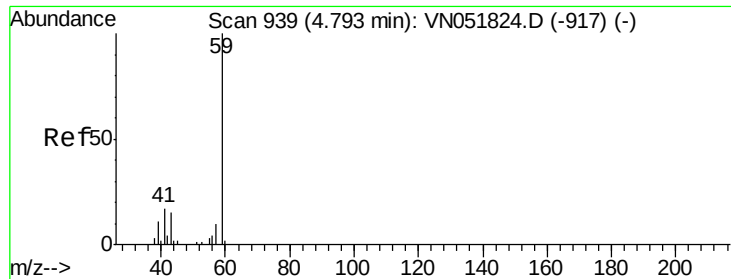
Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion:	96	Resp:	200448
Ion Ratio	Lower	Upper	
96	100		
61	118.9	124.5	186.7#
98	65.9	51.9	77.9





#23

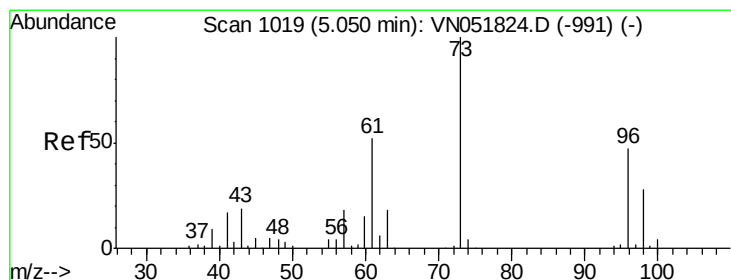
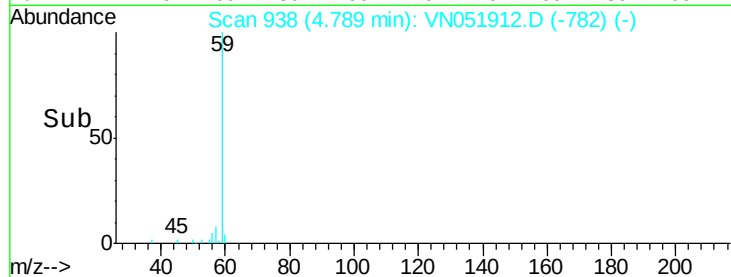
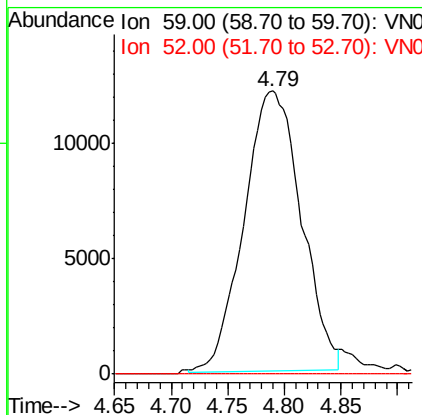
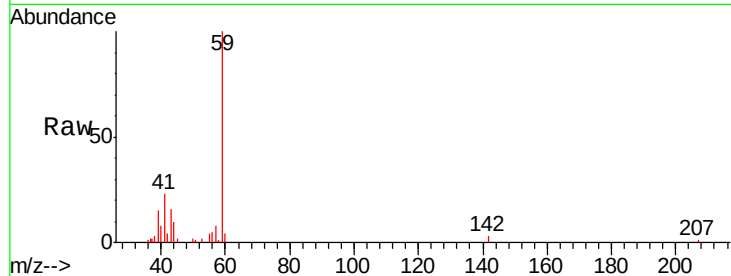
tert-Butyl Alcohol
Concen: 78.50 ug/l
RT: 4.79 min Scan# 938
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion: 59 Resp: 42843
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

Manual Integrations
APPROVED

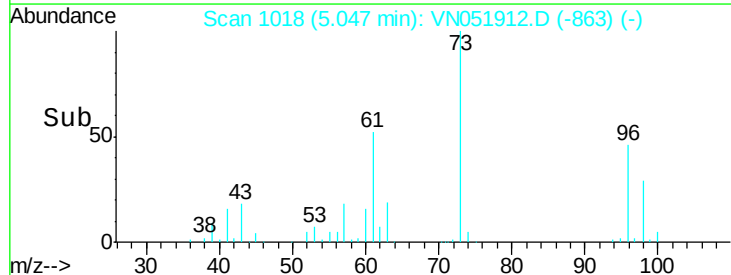
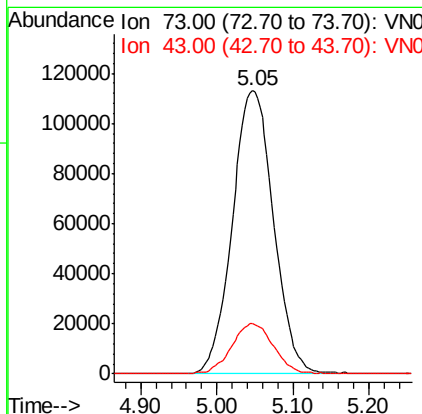
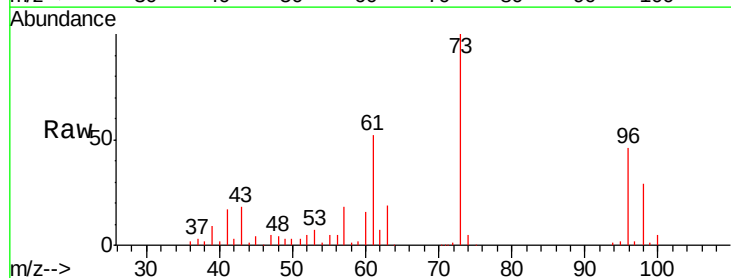
MMDadoda
10/19/2018 4:37:54 PM

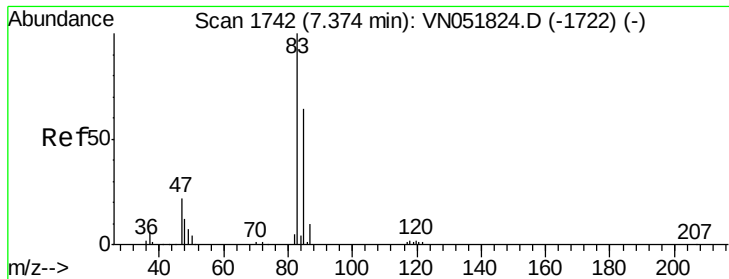


#24

Methyl tert-Butyl Ether
Concen: 19.74 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion: 73 Resp: 424581
Ion Ratio Lower Upper
73 100
43 17.2 5.4 8.0#





#25

Chloroform

Concen: 20.21 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 83 Resp: 330770

Ion Ratio Lower Upper

83 100

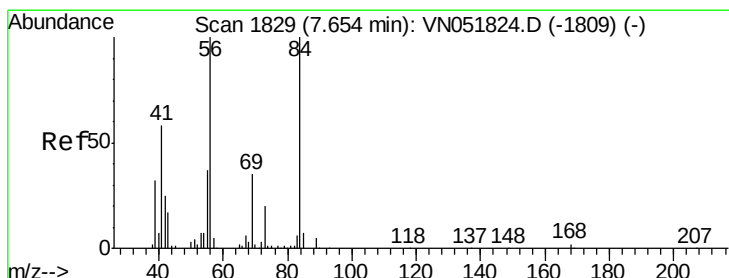
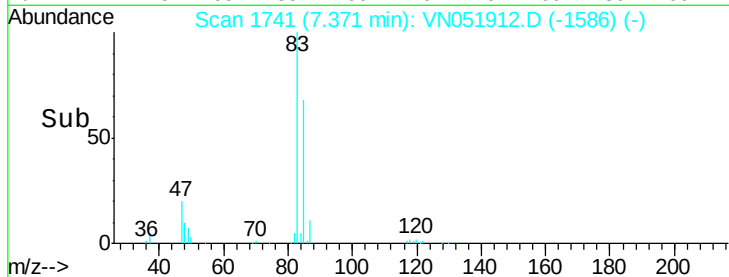
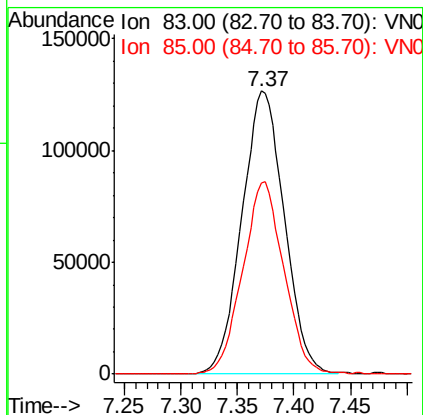
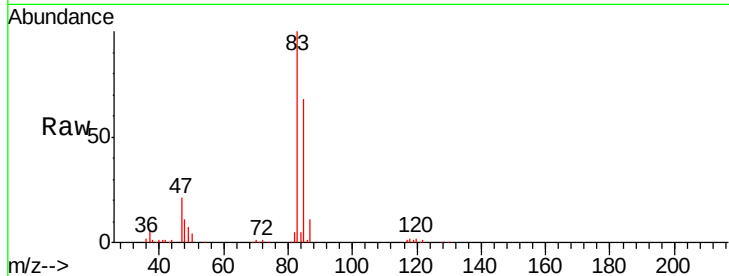
85 67.7 54.6 82.0

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:37:54 PM



#26

Cyclohexane

Concen: 19.01 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

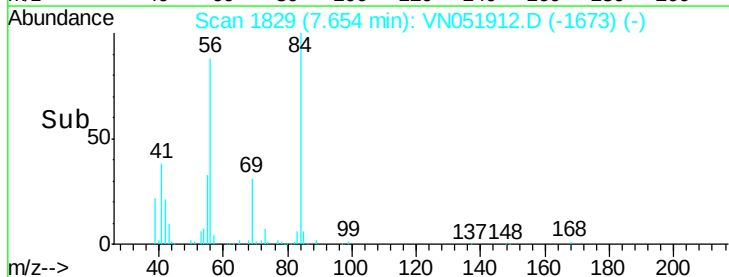
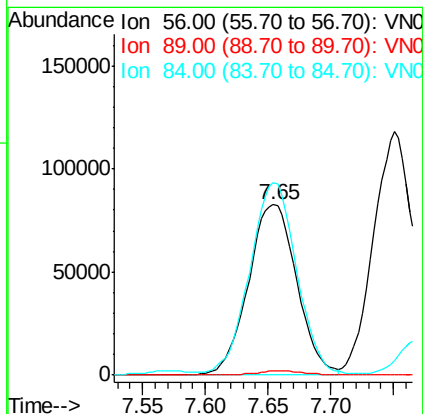
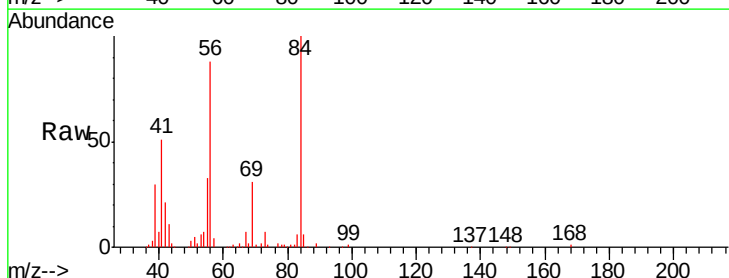
Tgt Ion: 56 Resp: 222338

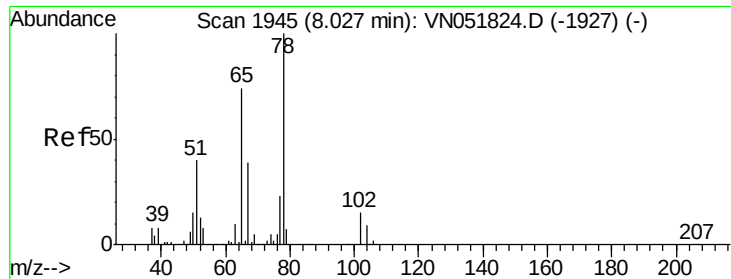
Ion Ratio Lower Upper

56 100

89 2.4 1.5 2.3#

84 110.2 64.2 96.4#





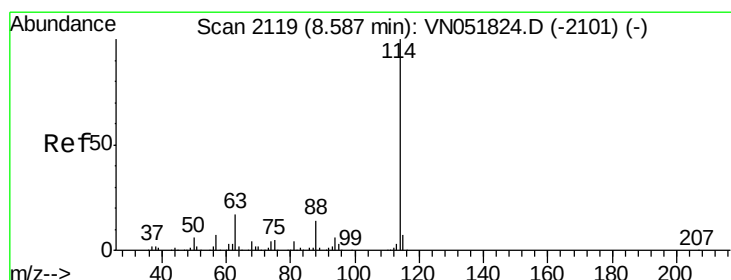
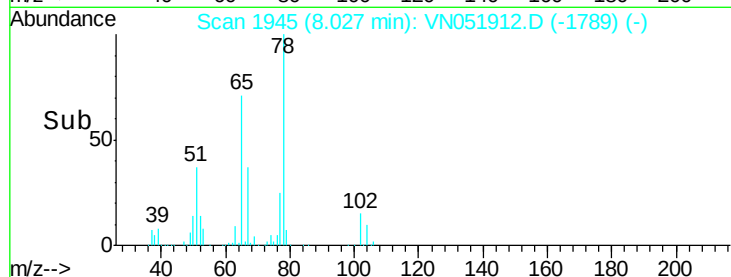
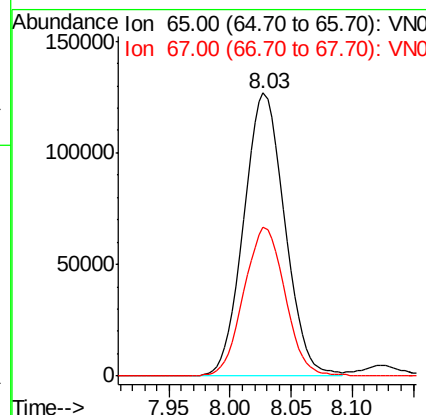
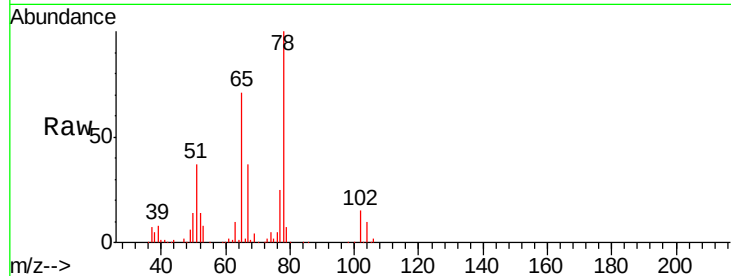
#27
 1,2-Dichloroethane-d4
 Concen: 19.01 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	295996		
67	52.4	41.8	62.8	

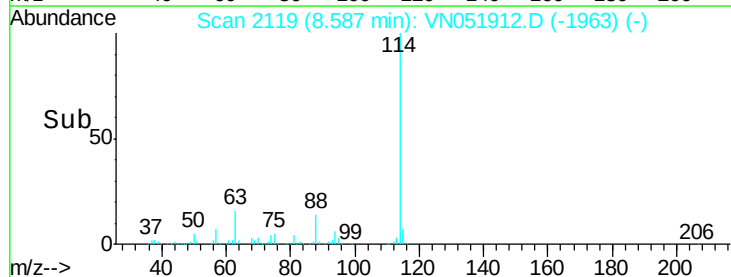
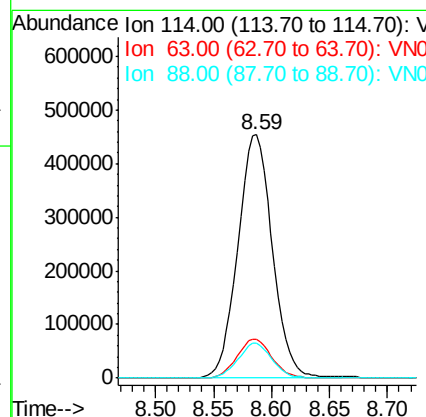
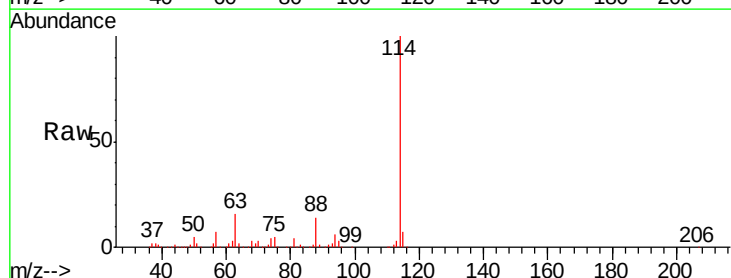
Manual Integrations
 APPROVED

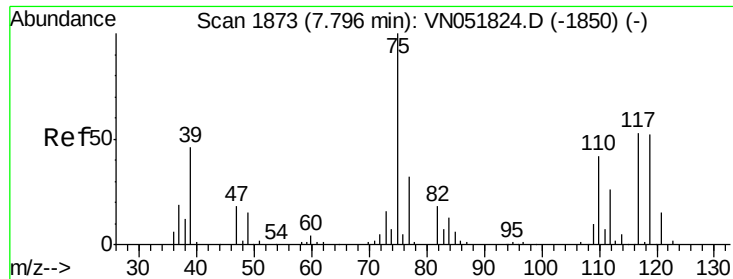
MMDadoda
 10/19/2018 4:37:54 PM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	937954		
63	16.0	16.2	24.2#	
88	14.1	12.2	18.4	





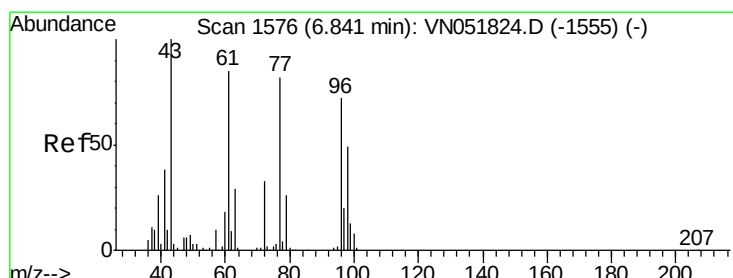
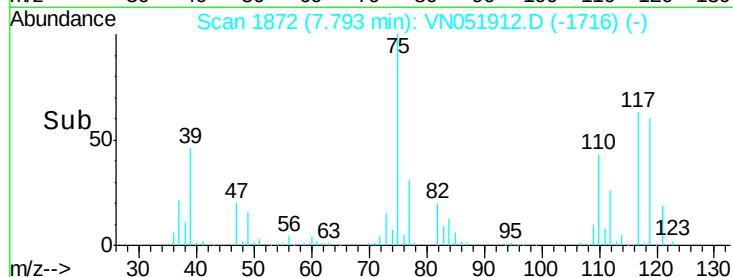
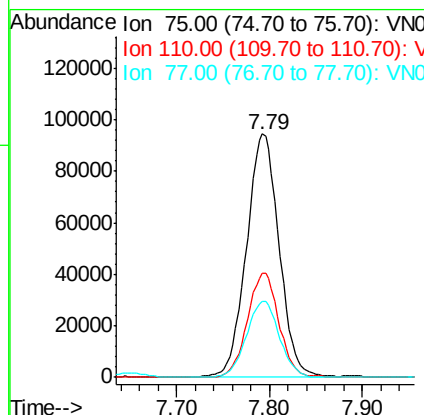
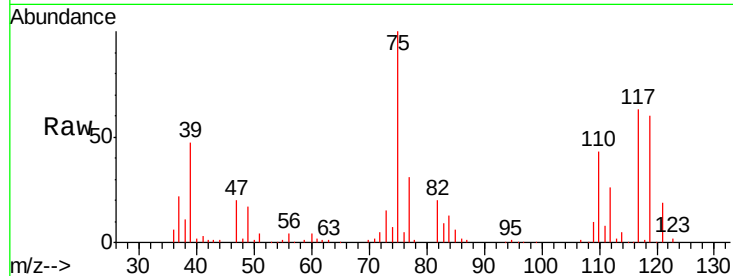
#29
 1,1-Dichloropropene
 Concen: 19.10 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBS01

Tgt Ion	Ratio	Resp Lower	Upper
75	100		
110	41.3	0.0	70.8
77	31.1	0.0	61.6

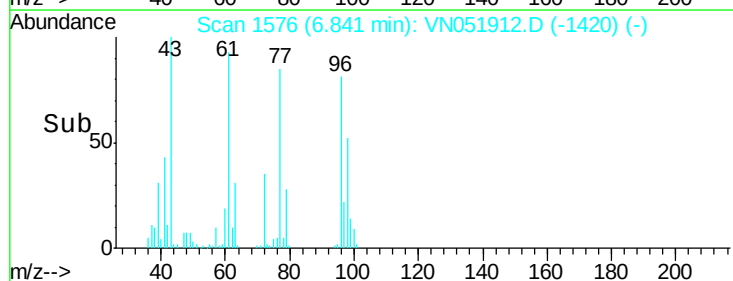
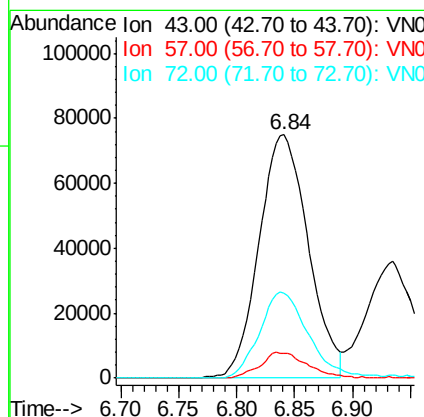
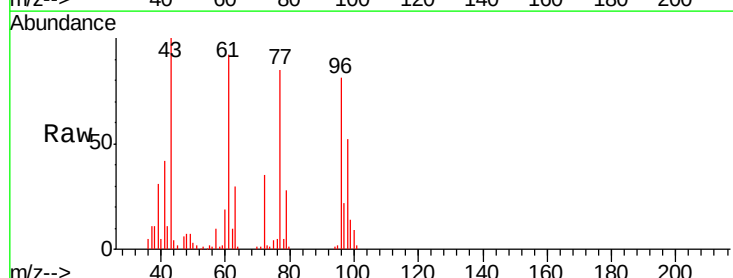
Manual Integrations
 APPROVED

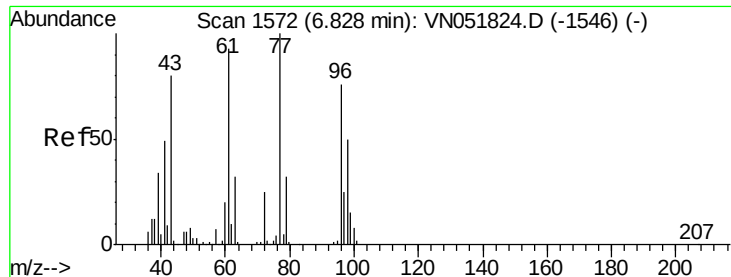
MMDadoda
 10/19/2018 4:37:54 PM



#30
 2-Butanone
 Concen: 87.05 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	5.3	4.5	6.7
72	35.3	21.5	32.3





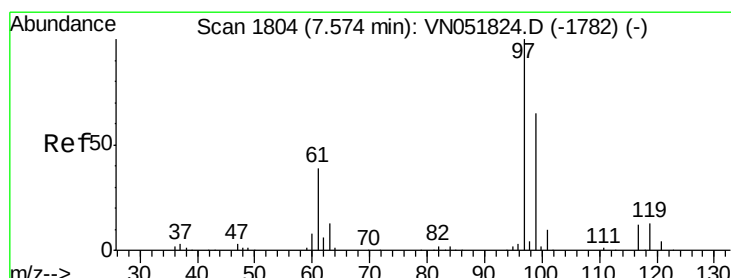
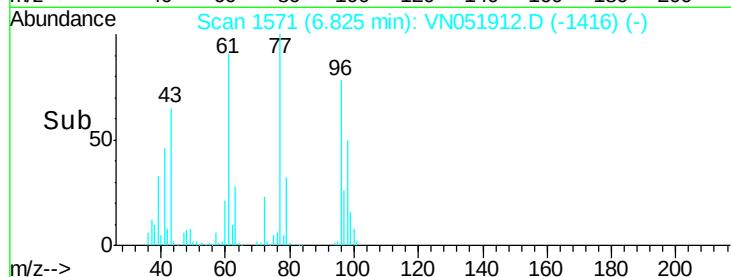
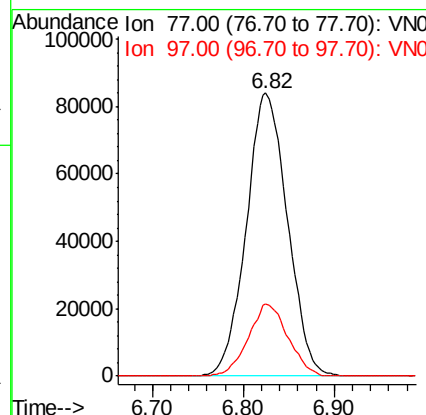
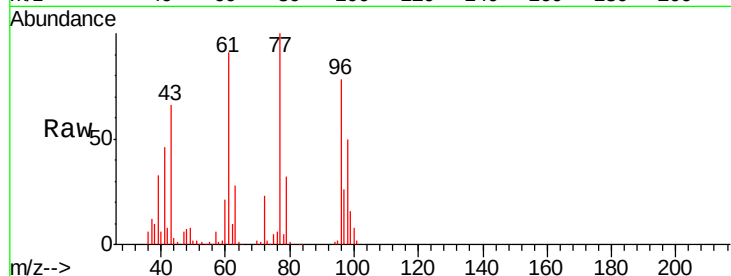
#31
 2,2-Dichloropropane
 Concen: 18.51 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBS01

Tgt Ion: 77 Resp: 263262
 Ion Ratio Lower Upper
 77 100
 97 24.6 12.0 18.0#

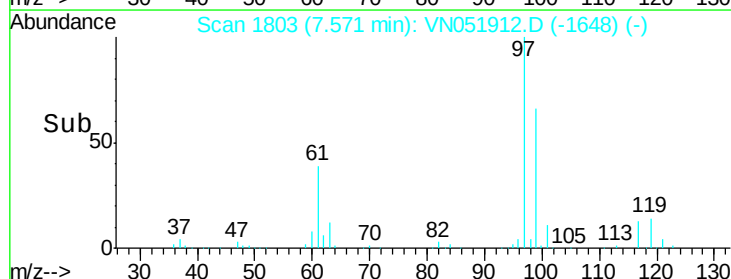
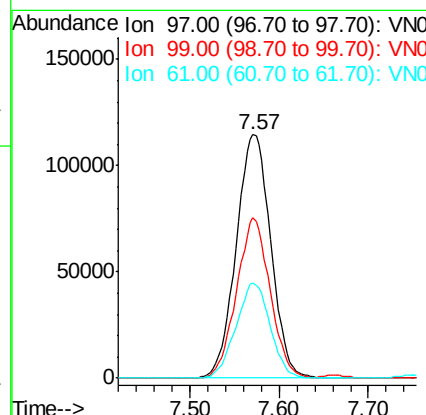
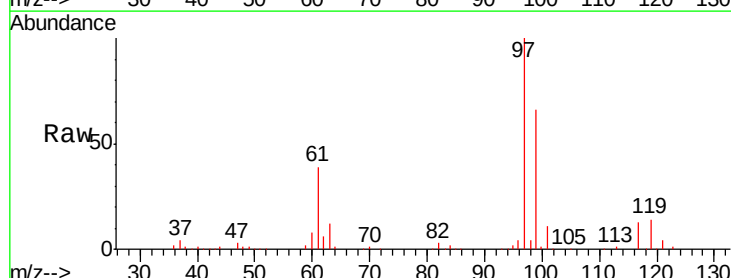
Manual Integrations
 APPROVED

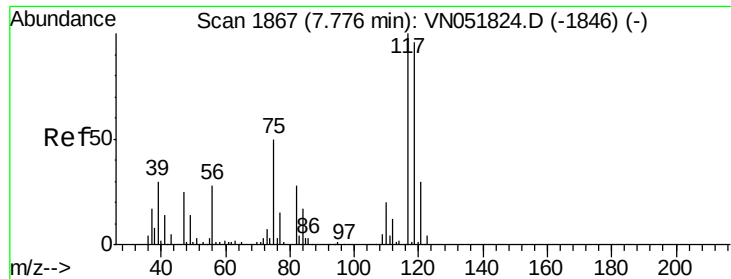
MMDadoda
 10/19/2018 4:37:54 PM



#32
 1,1,1-Trichloroethane
 Concen: 19.23 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Tgt Ion: 97 Resp: 308285
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.6 77.4
 61 38.6 37.4 56.0





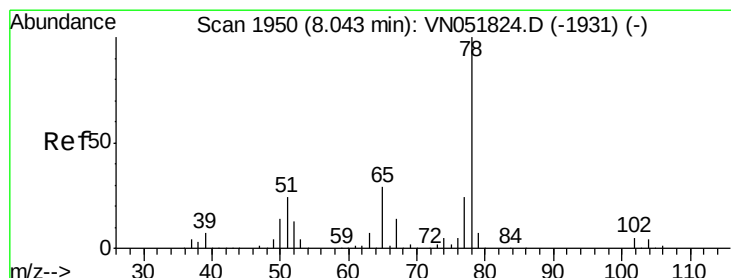
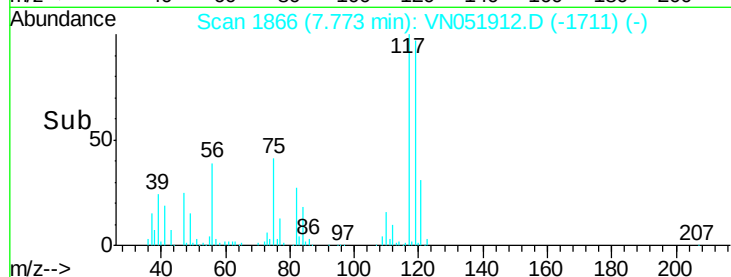
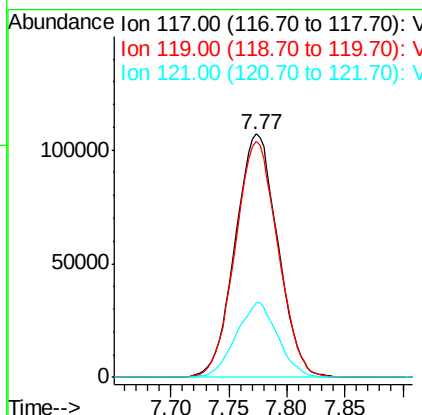
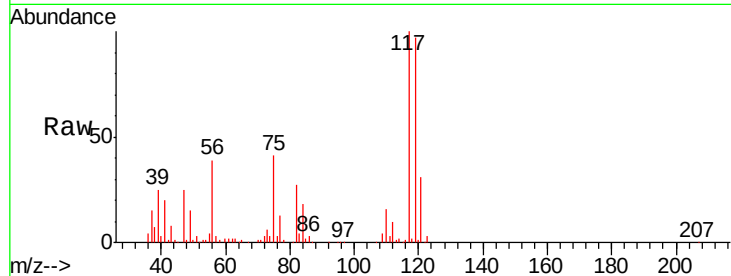
#33
Carbon Tetrachloride
Concen: 18.88 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.9	85.1	127.7
121	30.7	24.2	36.2

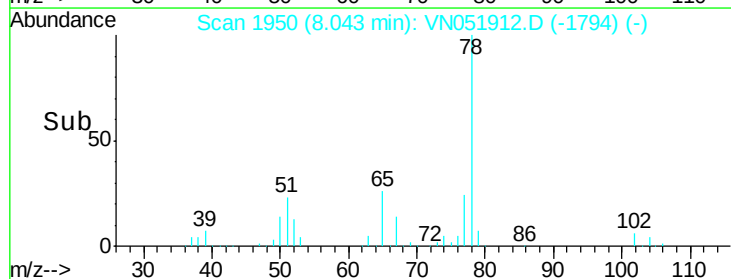
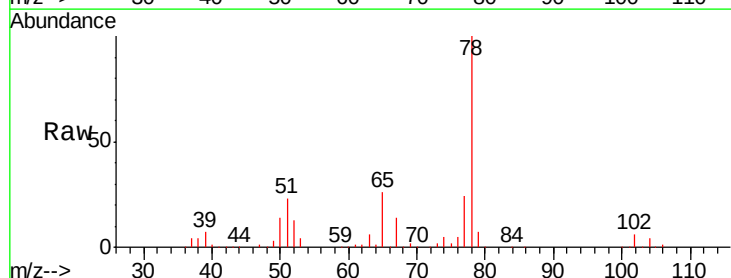
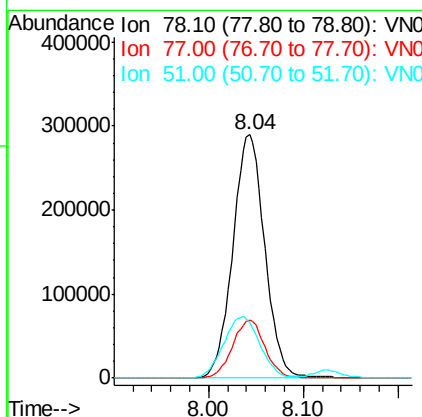
Manual Integrations
APPROVED

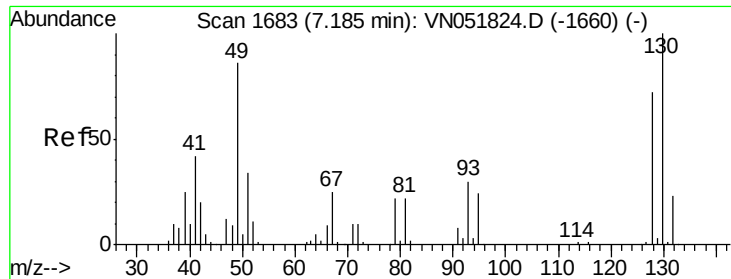
MMDadoda
10/19/2018 4:37:54 PM



#34
Benzene
Concen: 19.02 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2
51	22.7	46.2	69.4#





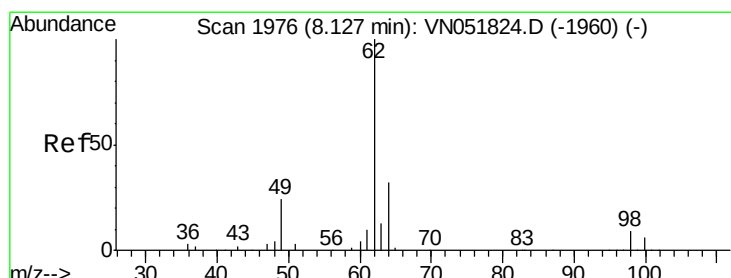
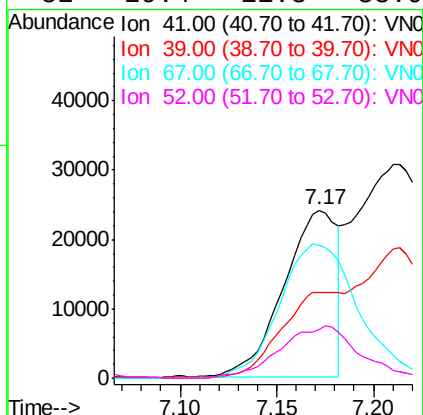
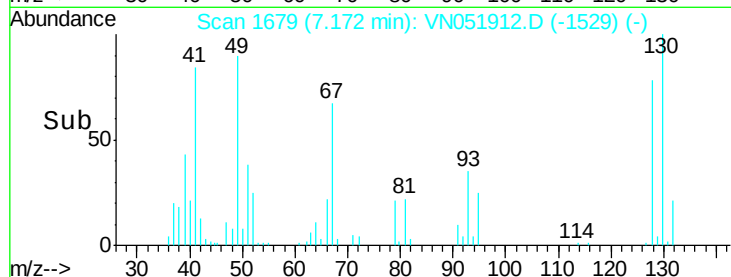
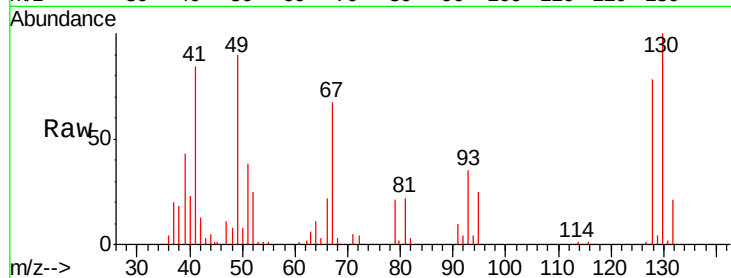
#35
Methacrylonitrile
Concen: 13.86 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.02 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	50.6	22.6	67.7
67	80.1	28.9	86.8
52	29.4	11.3	33.9

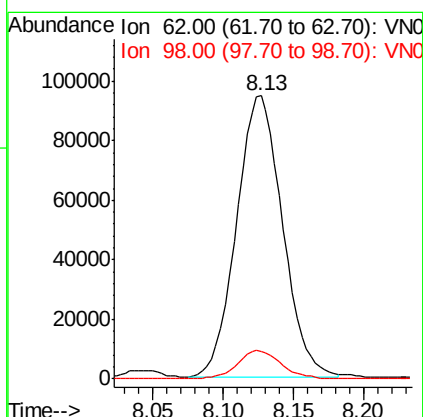
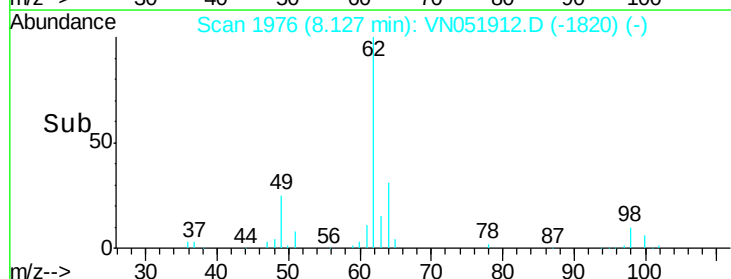
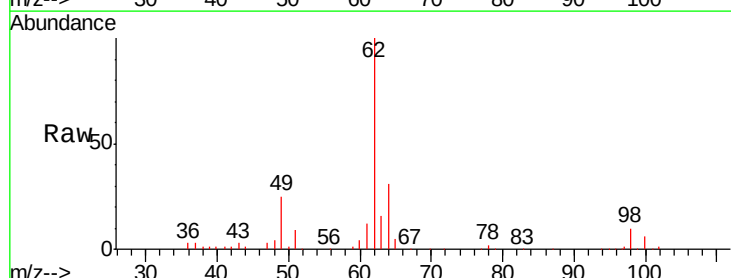
Manual Integrations
APPROVED

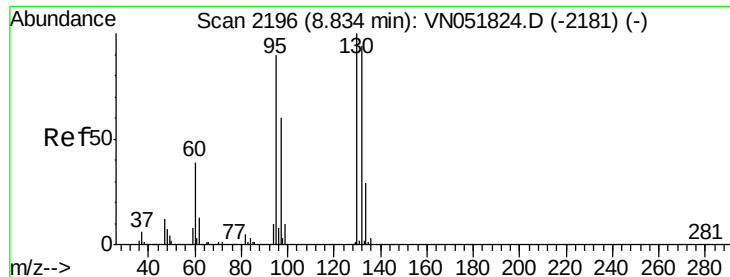
MMDadoda
10/19/2018 4:37:54 PM



#36
1,2-Dichloroethane
Concen: 18.75 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	6.9	10.3





#37

Trichloroethene

Concen: 19.48 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion:130 Resp: 216316

Ion Ratio Lower Upper

130 100

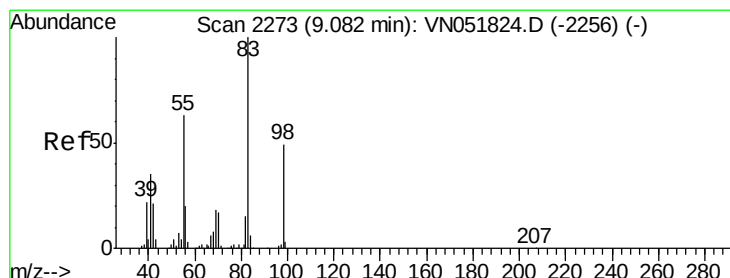
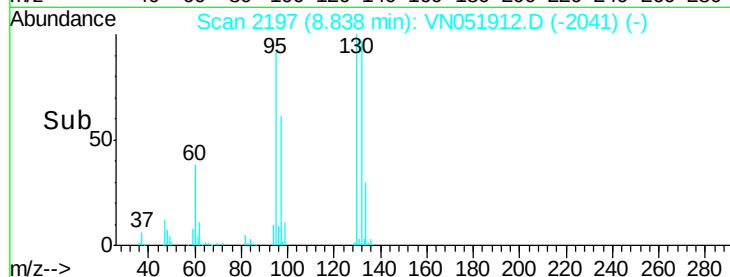
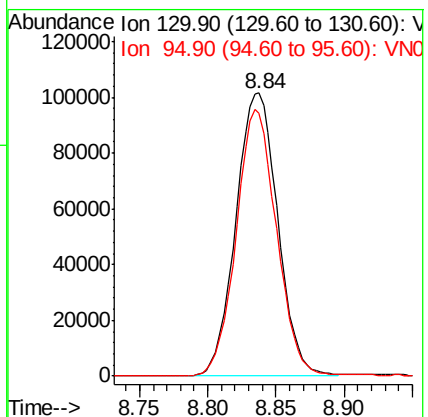
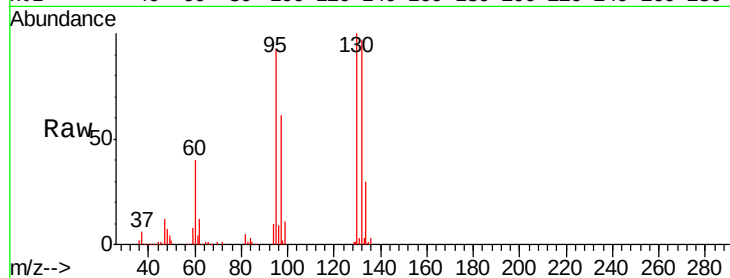
95 92.6 76.4 114.6

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:37:54 PM



#38

Methylcyclohexane

Concen: 19.11 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

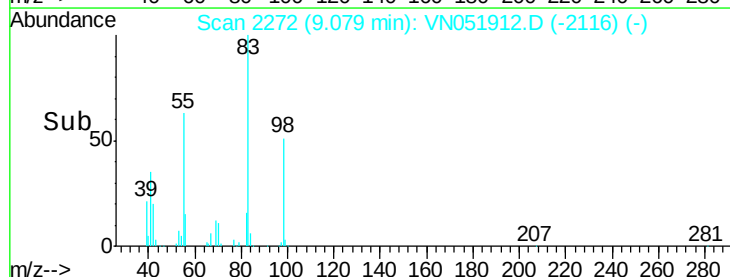
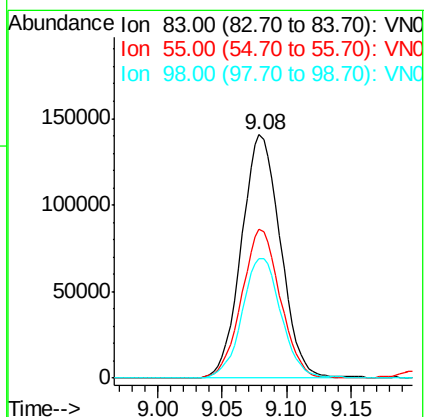
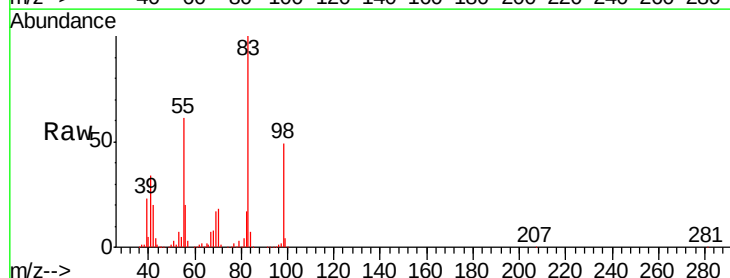
Tgt Ion: 83 Resp: 296304

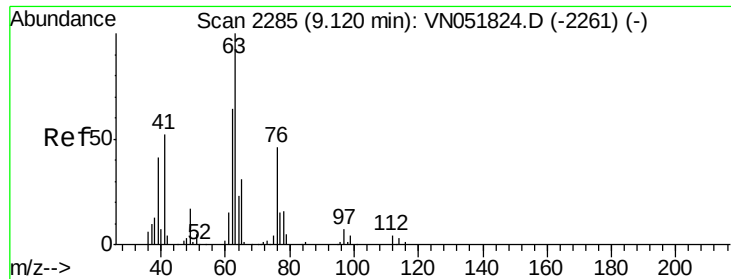
Ion Ratio Lower Upper

83 100

55 60.3 43.0 129.2

98 49.4 21.3 63.7





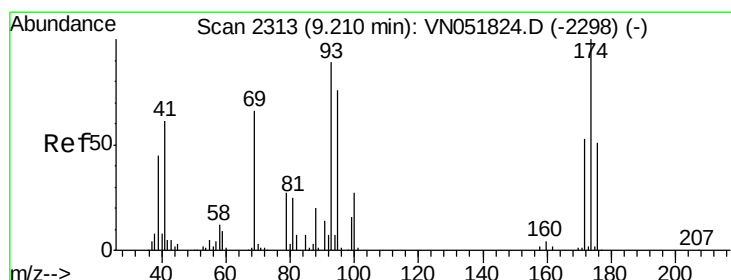
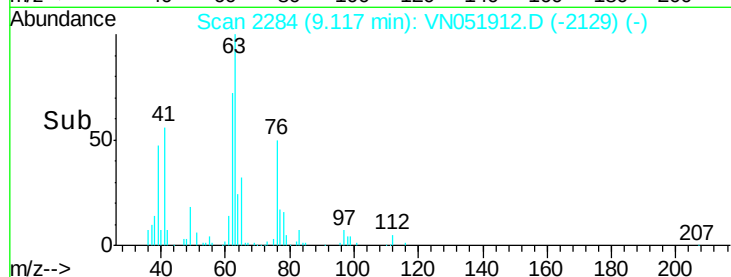
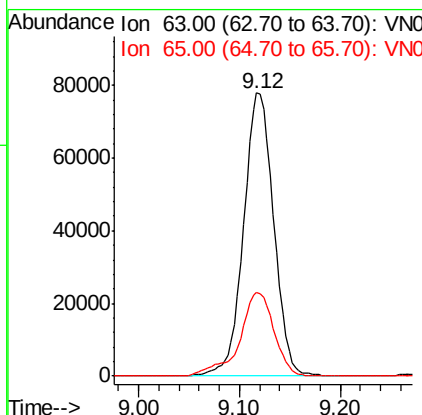
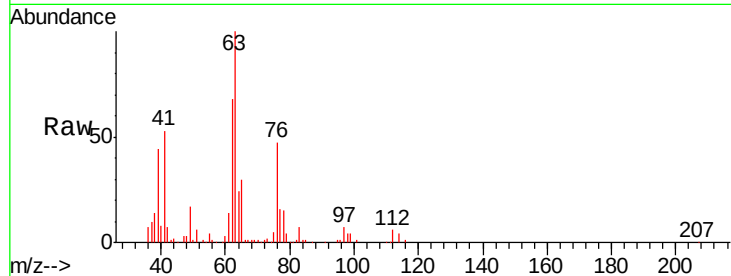
#39
 1,2-Dichloropropane
 Concen: 19.09 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBS01

Tgt Ion: 63 Resp: 160812
 Ion Ratio Lower Upper
 63 100
 65 29.7 23.2 34.8

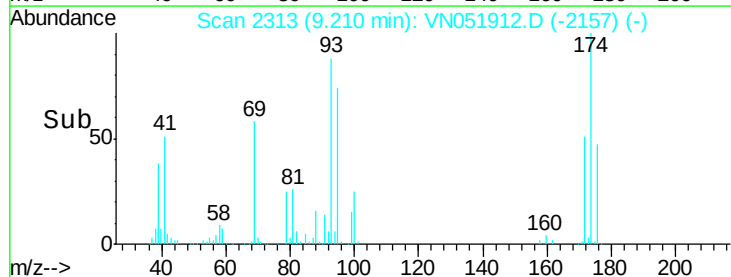
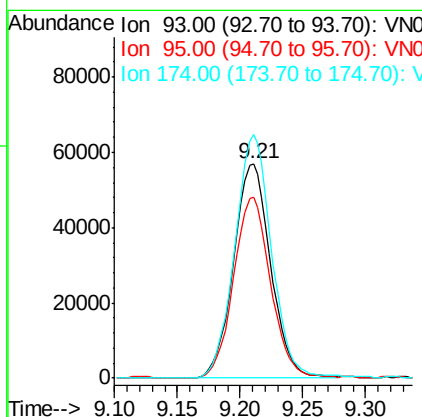
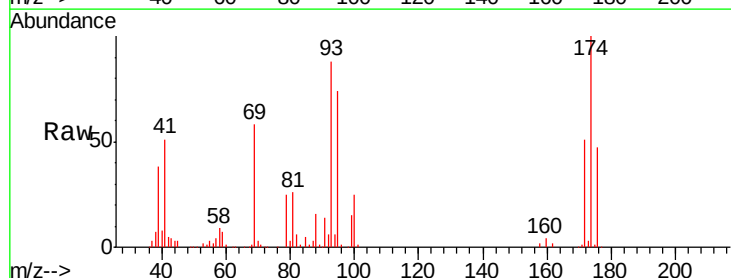
Manual Integrations
 APPROVED

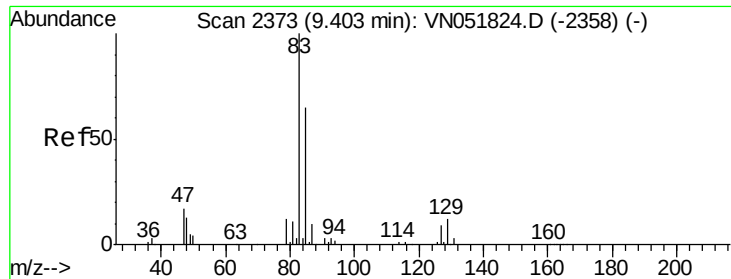
MMDadoda
 10/19/2018 4:37:54 PM



#40
 Dibromomethane
 Concen: 18.82 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Tgt Ion: 93 Resp: 117660
 Ion Ratio Lower Upper
 93 100
 95 84.1 0.0 162.0
 174 111.5 0.0 214.0





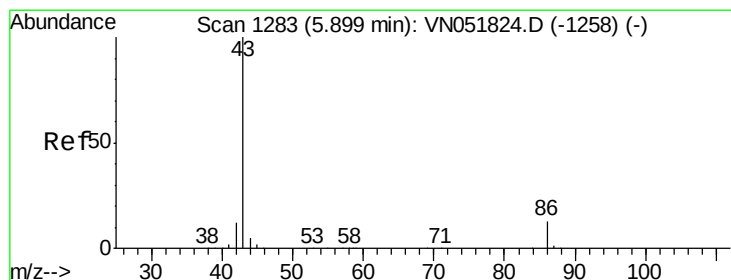
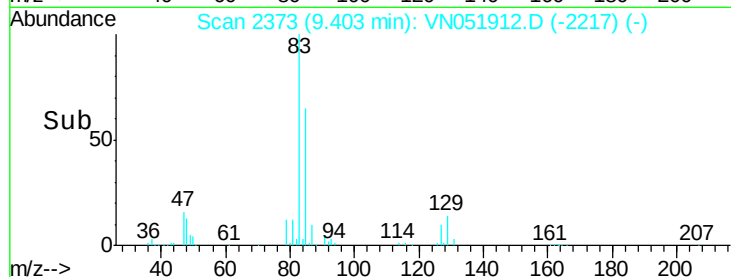
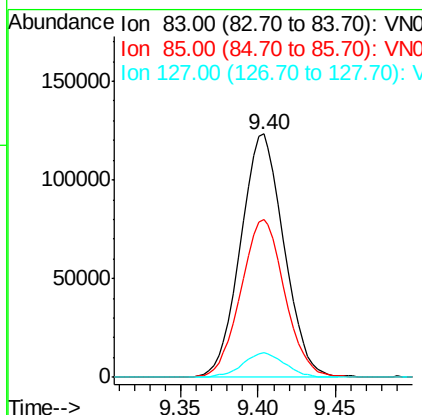
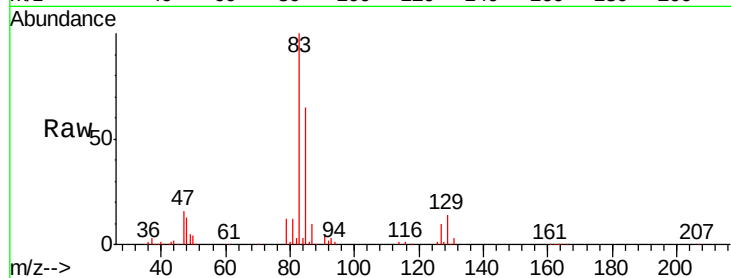
#41
Bromodichloromethane
Concen: 18.65 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	55.7	83.5
127	10.1	8.2	12.4

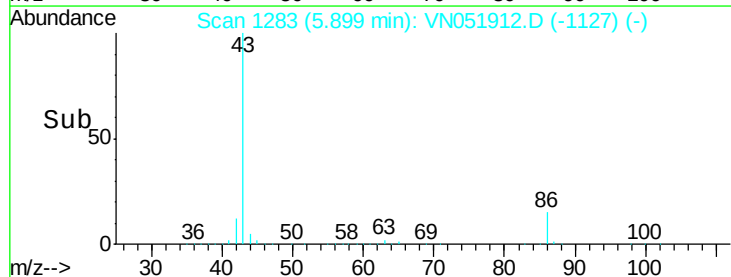
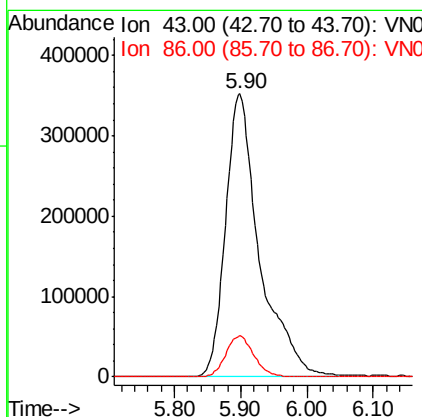
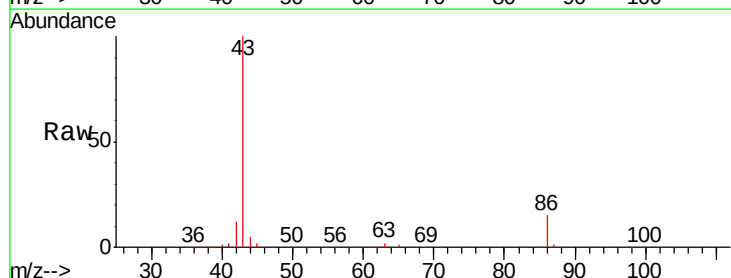
Manual Integrations
APPROVED

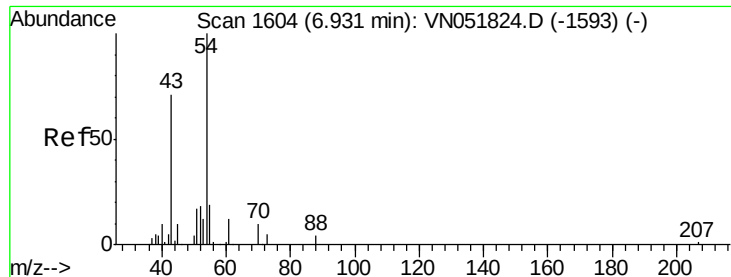
MMDadoda
10/19/2018 4:37:54 PM



#42
Vinyl Acetate
Concen: 88.38 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Lower	Upper
43	100		
86	11.9	6.5	9.7#





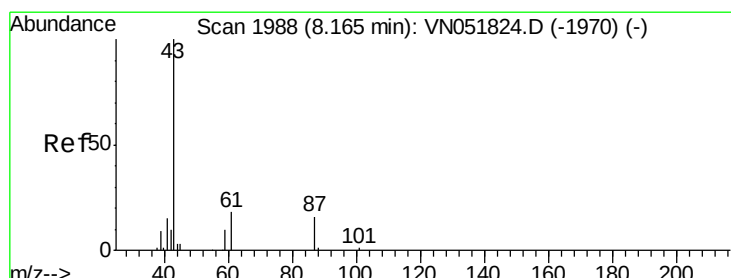
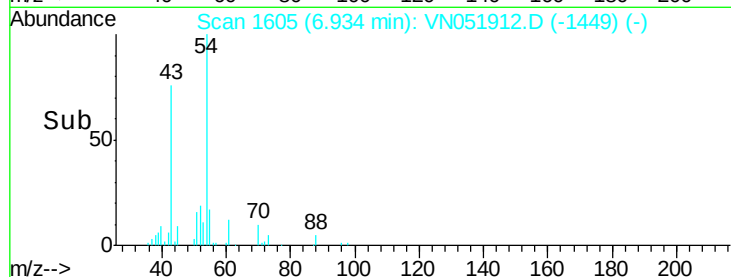
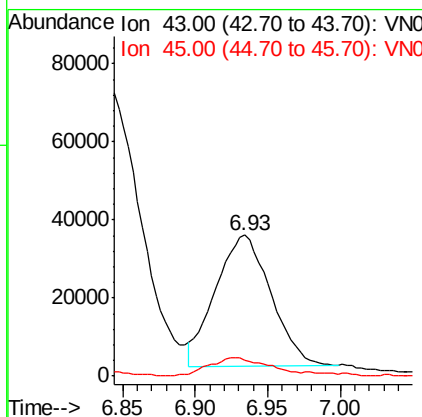
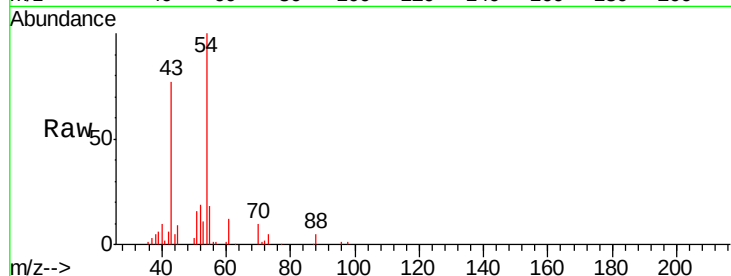
#43
Ethyl Acetate
Concen: 16.19 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion: 43 Resp: 88854
Ion Ratio Lower Upper
43 100
45 13.8 11.0 16.6

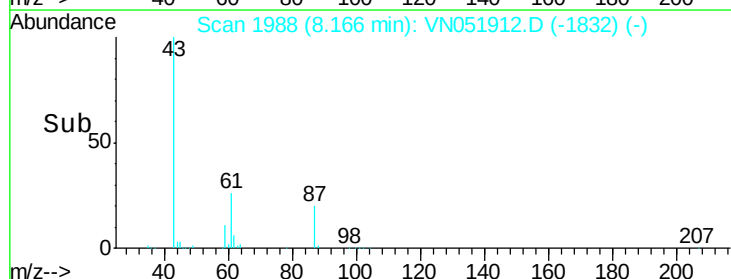
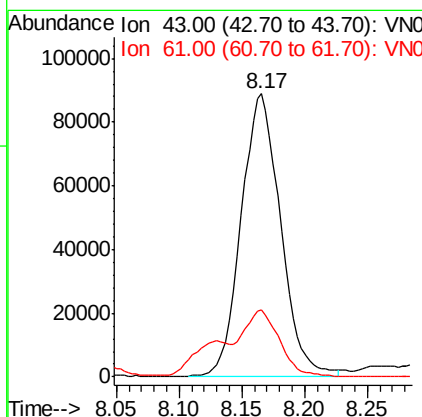
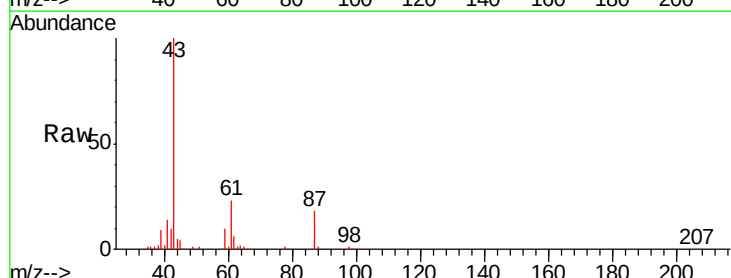
Manual Integrations
APPROVED

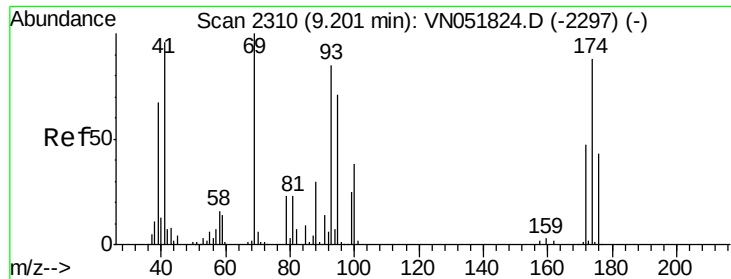
MMDadoda
10/19/2018 4:37:54 PM



#44
Isopropyl Acetate
Concen: 17.65 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion: 43 Resp: 193453
Ion Ratio Lower Upper
43 100
61 21.5 15.9 23.9





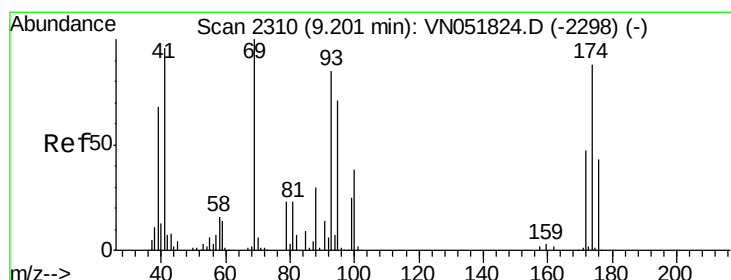
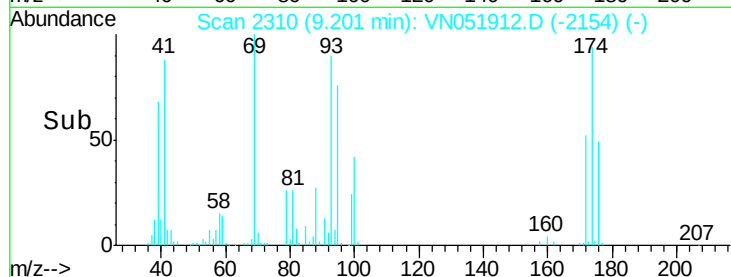
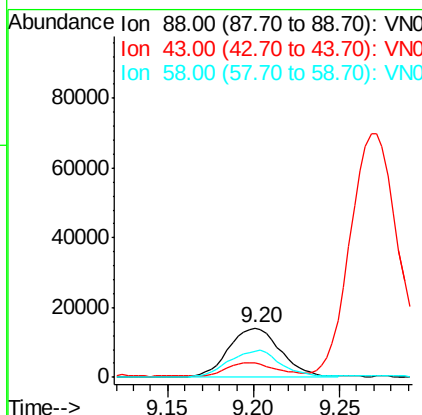
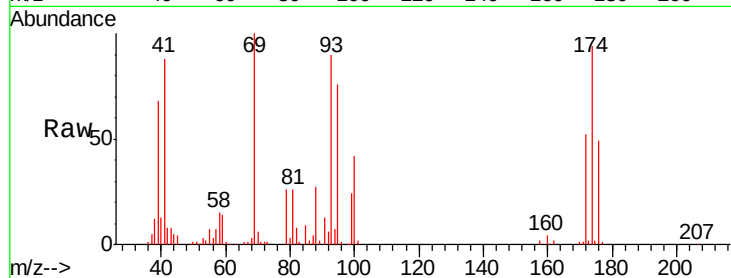
#45
1,4-Dioxane
Concen: 341.61 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	25.1	26.2	39.2#
58	55.3	65.6	98.4#

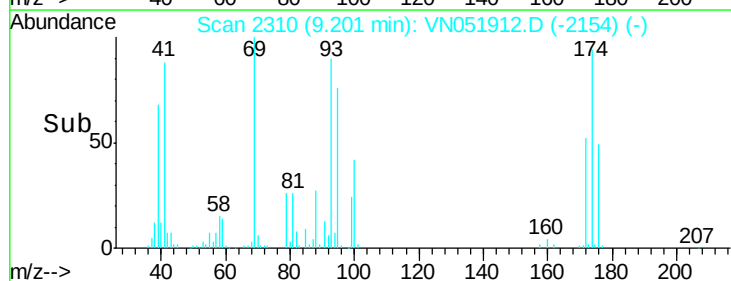
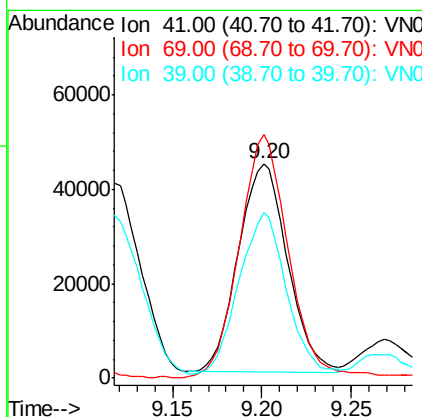
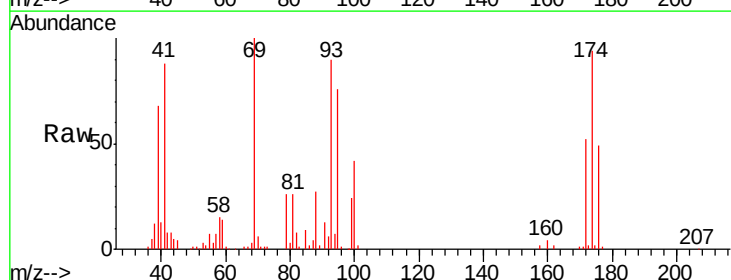
Manual Integrations
APPROVED

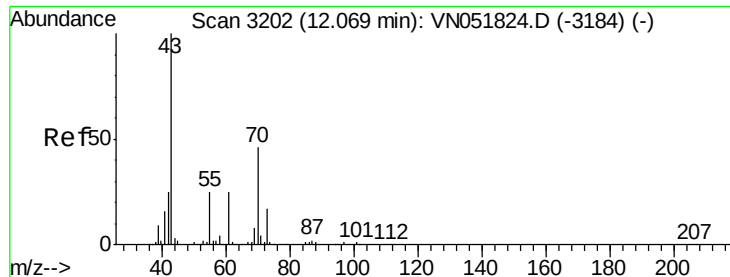
MMDadoda
10/19/2018 4:37:54 PM



#46
Methyl methacrylate
Concen: 16.99 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Lower	Upper
41	100		
69	116.4	40.7	122.1
39	77.2	27.3	81.9





#47

n-amyl Acetate

Concen: 14.81 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 43 Resp: 135877

Ion Ratio Lower Upper

43 100

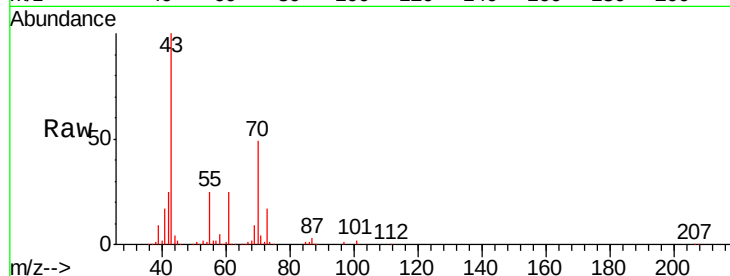
55 26.5 12.2 18.4#

Manual Integrations

APPROVED

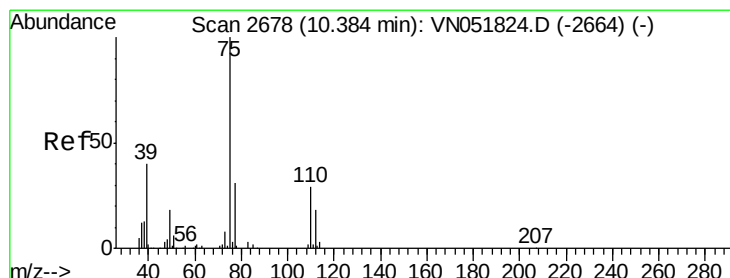
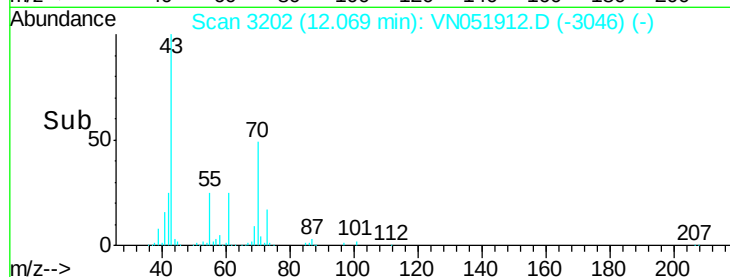
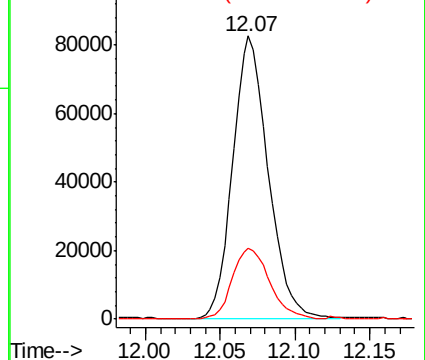
MMDadoda

10/19/2018 4:37:54 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#48

t-1,3-Dichloropropene

Concen: 17.16 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051912.D

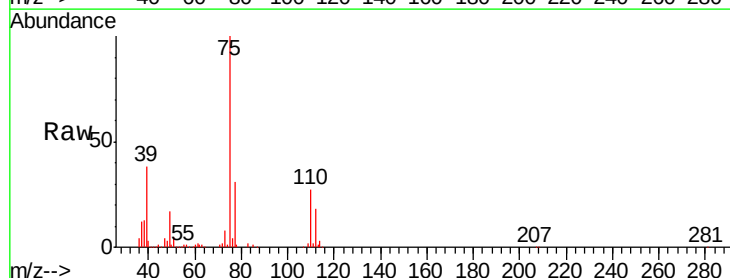
Acq: 18 Oct 2018 13:21

Tgt Ion: 75 Resp: 216107

Ion Ratio Lower Upper

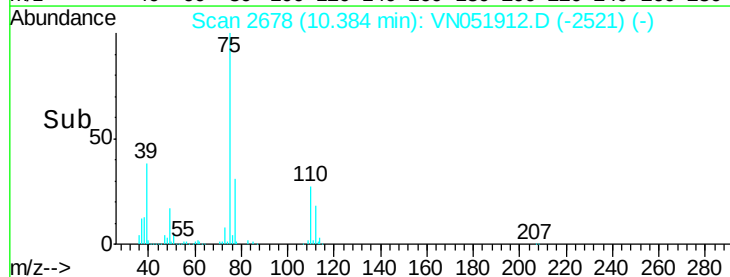
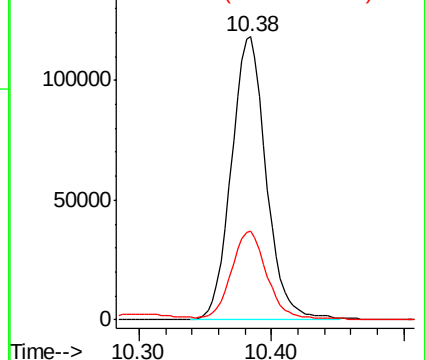
75 100

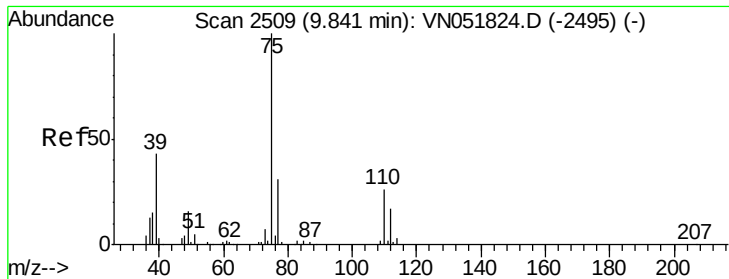
77 30.9 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#49

cis-1,3-Dichloropropene

Concen: 17.96 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

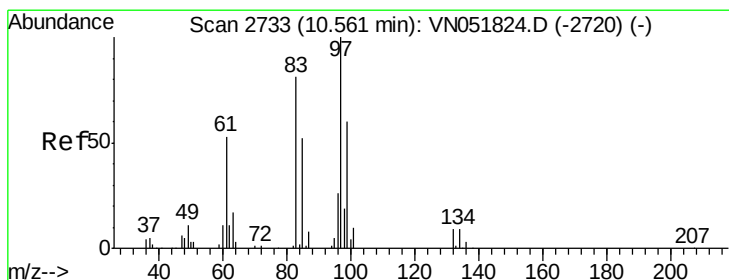
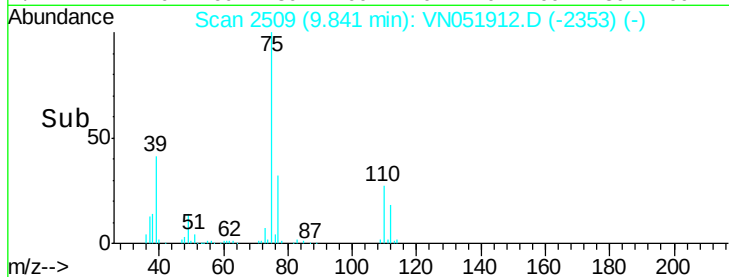
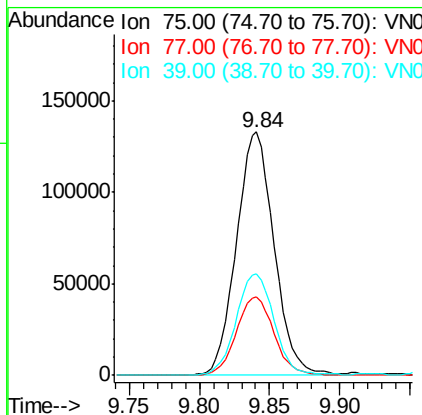
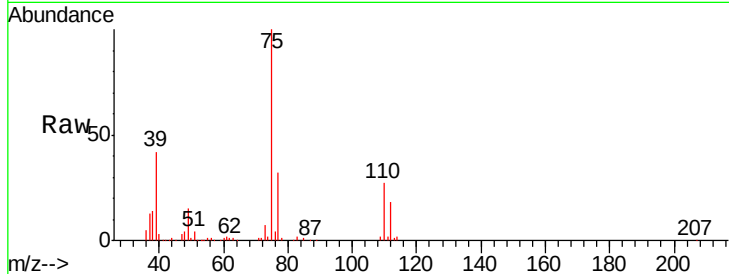
ClientSampleId :

VN1018WBS01

Tgt Ion:	75	Resp:	249281
Ion	Ratio	Lower	Upper
75	100		
77	31.8	23.2	34.8
39	41.7	34.6	52.0

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#50

1,1,2-Trichloroethane

Concen: 19.36 ug/l

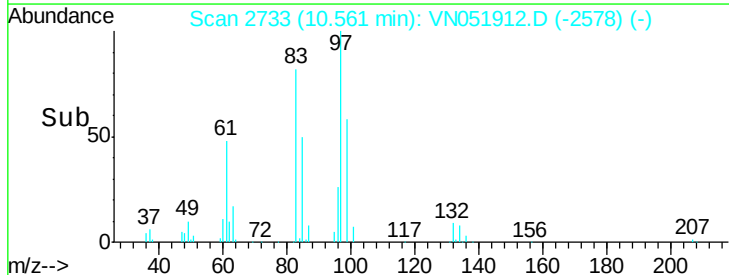
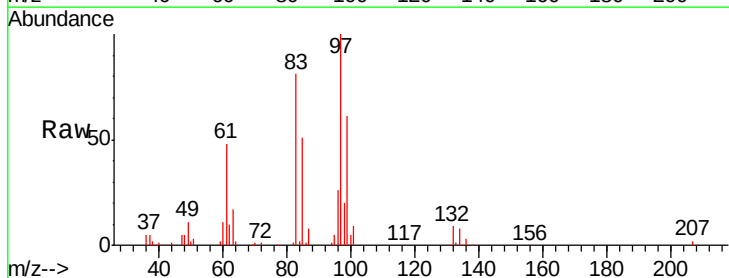
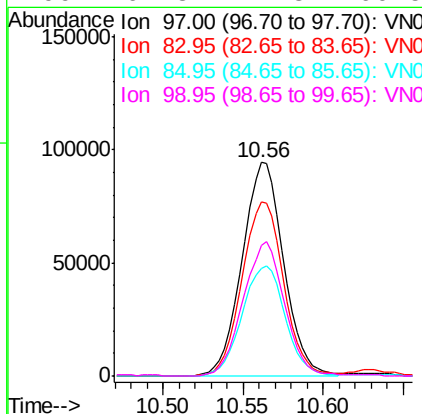
RT: 10.56 min Scan# 2733

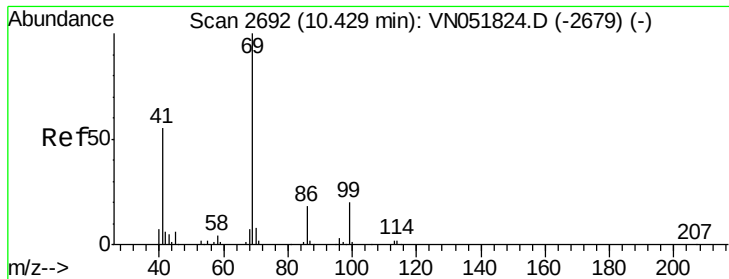
Delta R.T. -0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion:	97	Resp:	167180
Ion	Ratio	Lower	Upper
97	100		
83	81.2	68.2	102.4
85	50.6	42.5	63.7
99	61.3	44.3	66.5





#51

Ethyl methacrylate

Concen: 17.38 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

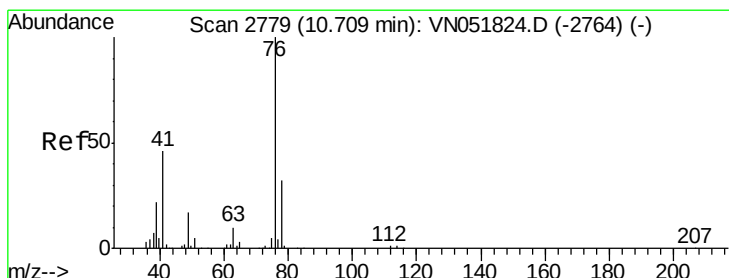
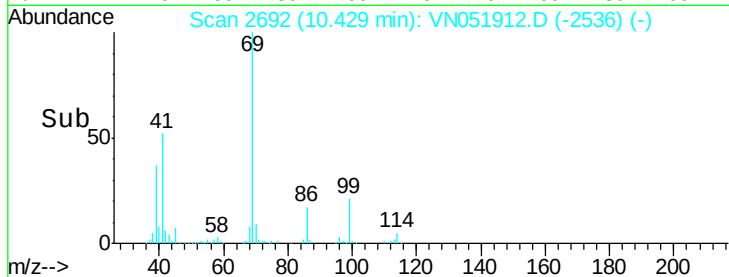
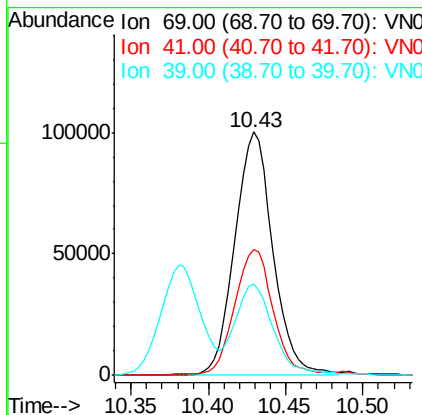
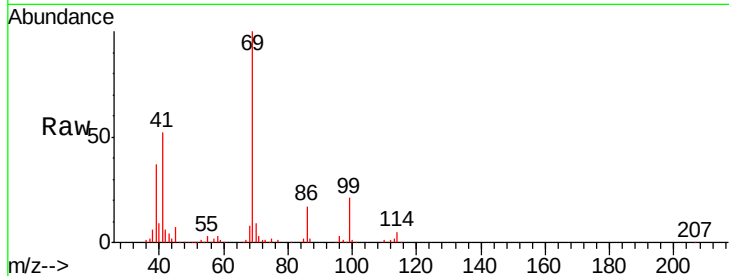
ClientSampleId :

VN1018WBS01

Tgt Ion:	69	Resp:	171864
Ion Ratio	Lower	Upper	
69	100		
41	51.3	34.4	103.1
39	36.4	16.3	48.8

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#52

1,3-Dichloropropane

Concen: 18.94 ug/l

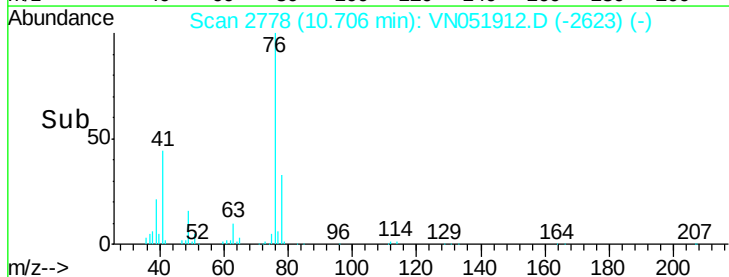
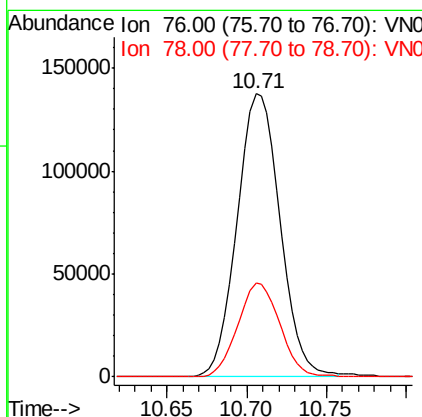
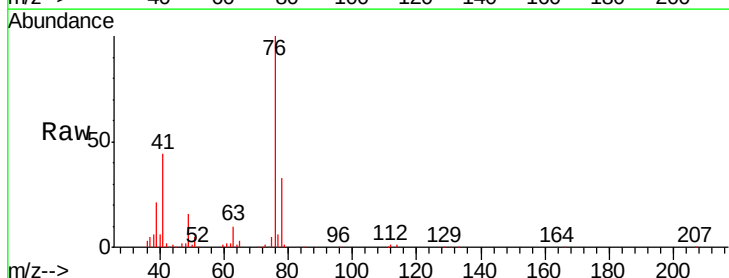
RT: 10.71 min Scan# 2778

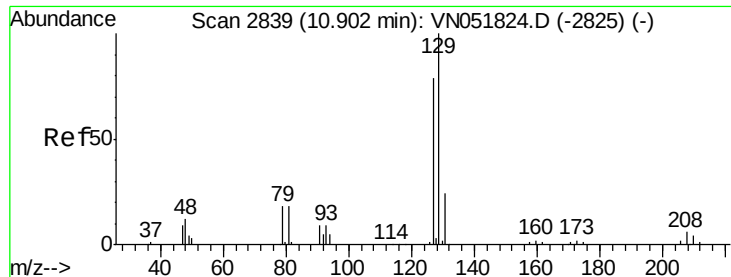
Delta R.T. -0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion:	76	Resp:	252395
Ion Ratio	Lower	Upper	
76	100		
78	32.4	0.0	67.6





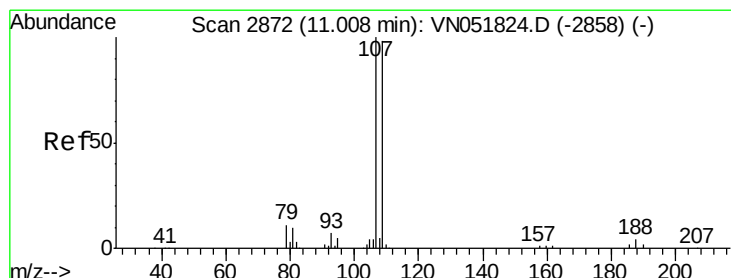
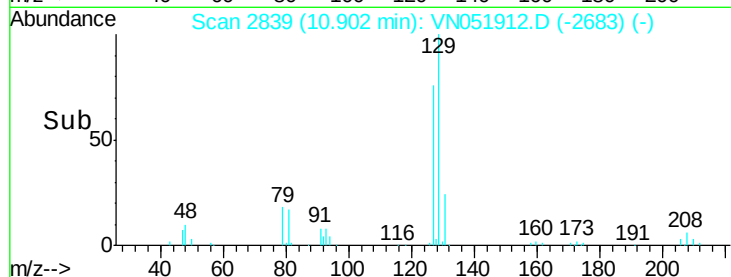
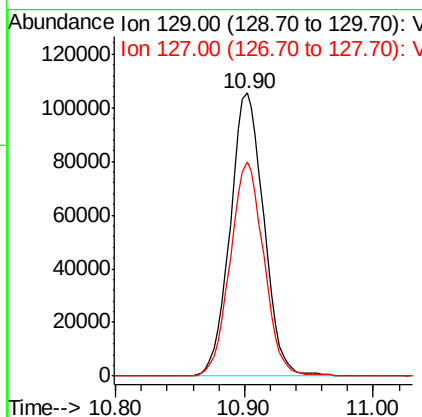
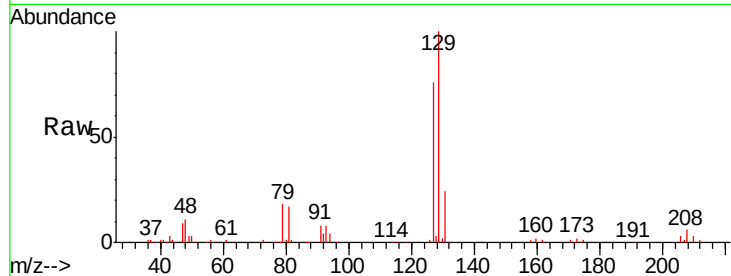
#53
Dibromochloromethane
Concen: 17.90 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion:129 Resp: 191289
Ion Ratio Lower Upper
129 100
127 75.2 40.2 120.5

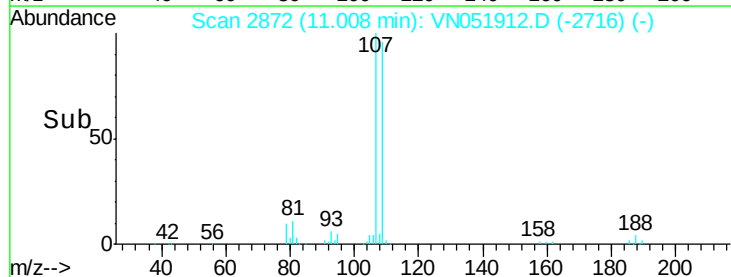
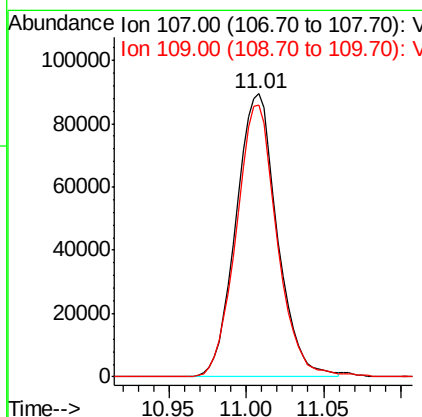
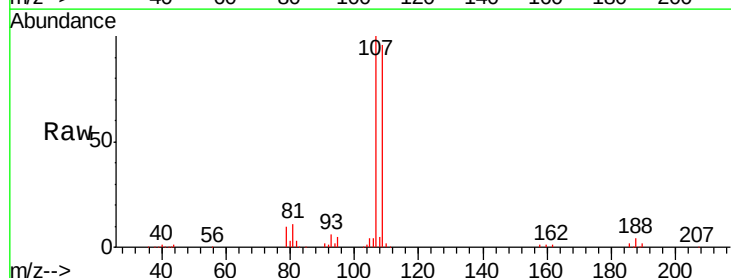
Manual Integrations
APPROVED

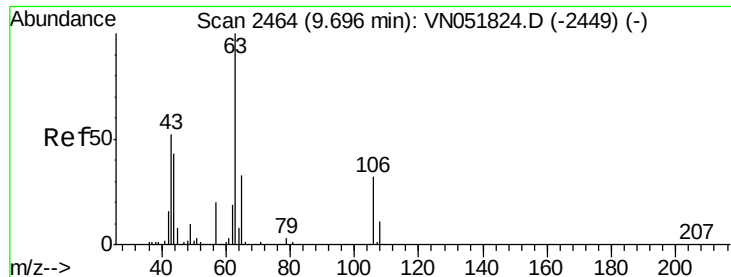
MMDadoda
10/19/2018 4:37:54 PM



#54
1,2-Dibromoethane
Concen: 18.33 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion:107 Resp: 166149
Ion Ratio Lower Upper
107 100
109 94.4 77.4 116.0





#55

2-Chloroethyl vinyl ether

Concen: 84.67 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 63 Resp: 357876
Ion Ratio Lower Upper

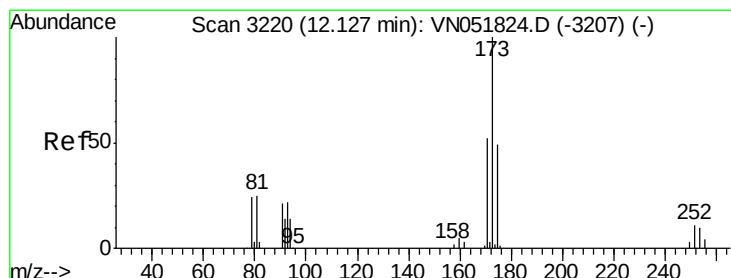
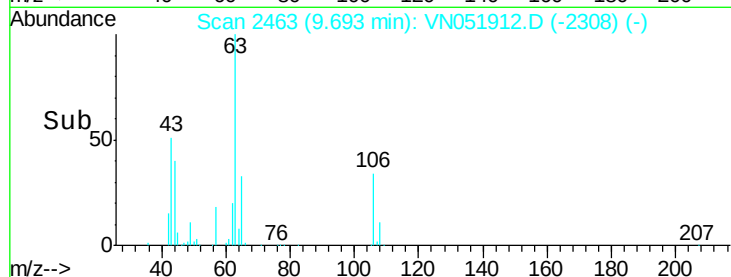
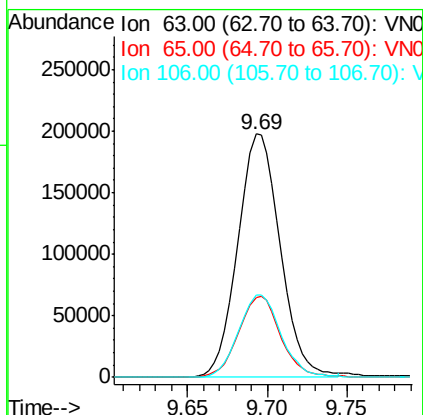
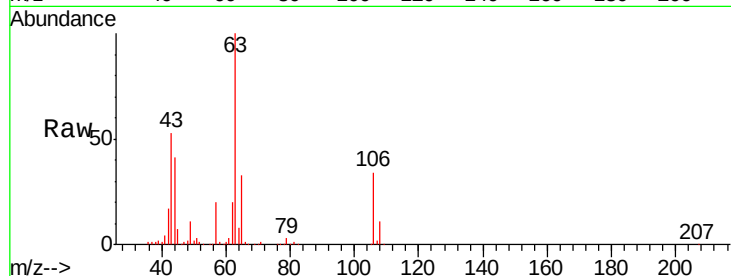
63 100

65 33.3 25.4 38.0

106 34.0 21.2 31.8#

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#56

Bromoform

Concen: 15.83 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051912.D

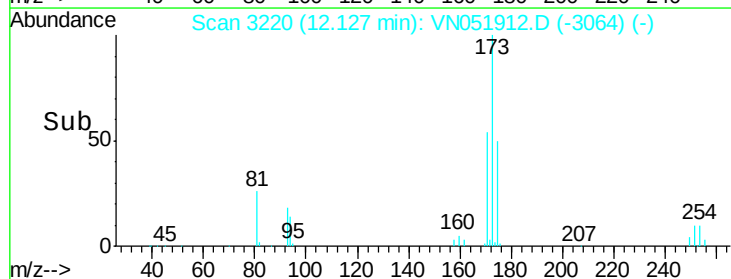
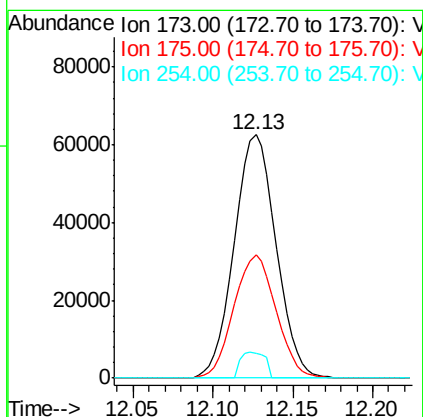
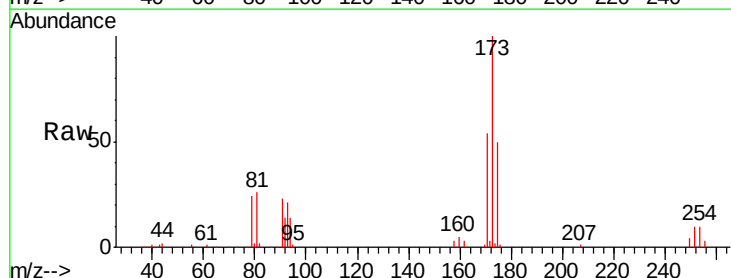
Acq: 18 Oct 2018 13:21

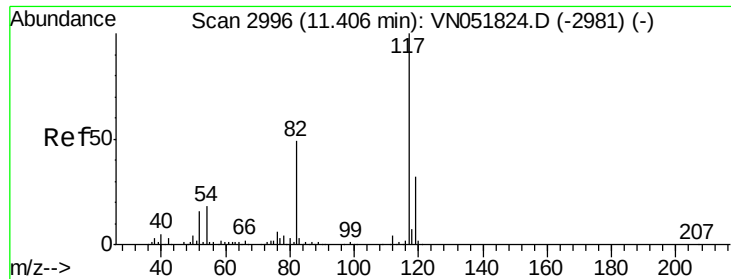
Tgt Ion: 173 Resp: 111535
Ion Ratio Lower Upper

173 100

175 51.0 35.8 53.8

254 5.2 8.6 13.0#





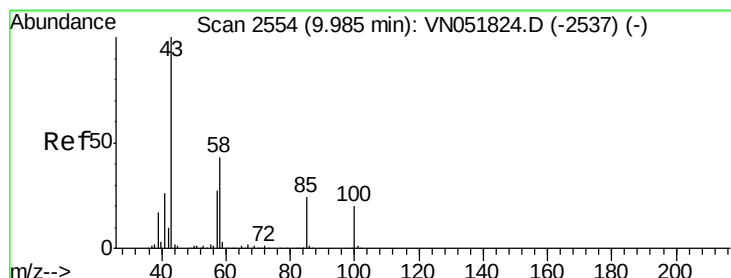
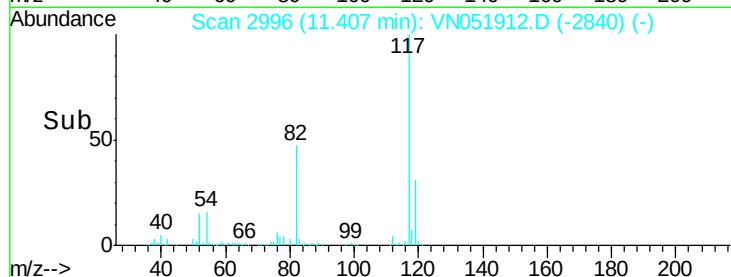
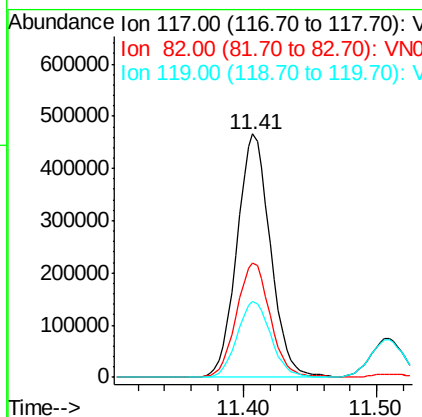
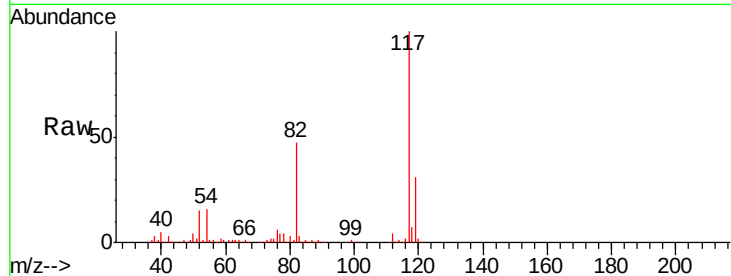
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	817387		
82	47.5		44.1	66.1
119	31.3		25.8	38.8

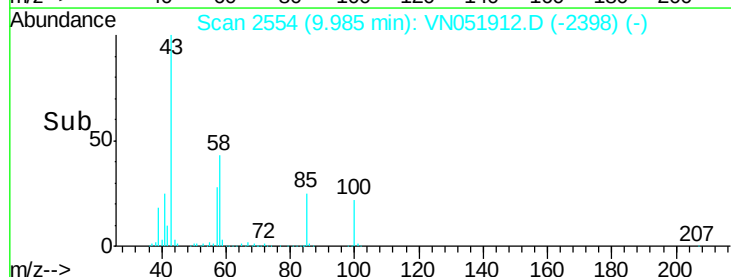
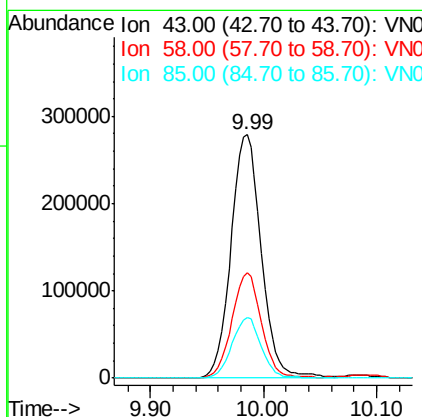
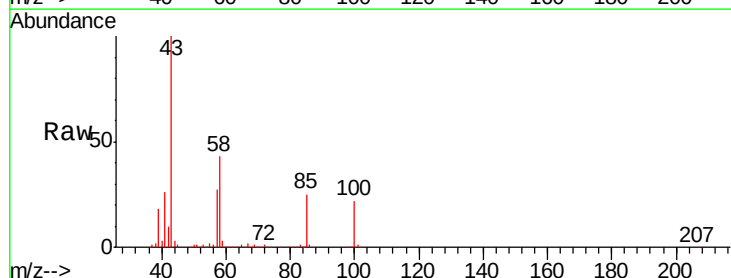
Manual Integrations
APPROVED

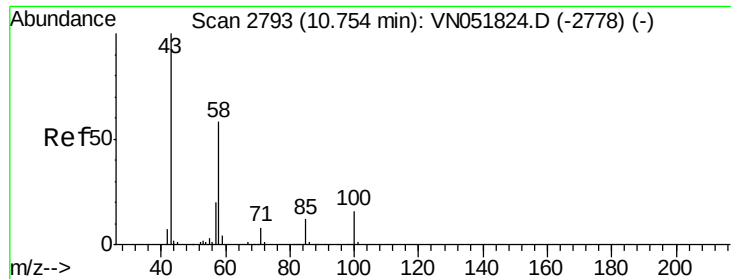
MMDadoda
10/19/2018 4:37:54 PM



#58
4-Methyl-2-Pentanone
Concen: 94.68 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	517905		
58	42.3		29.3	43.9
85	23.9		12.6	18.8#





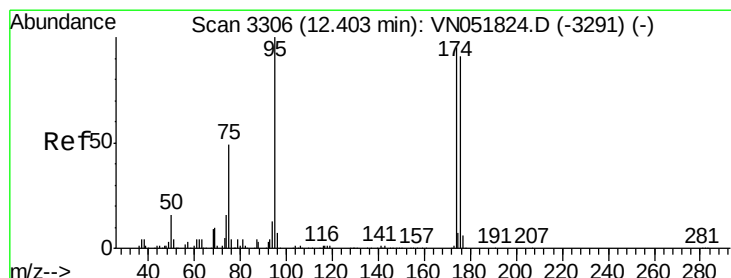
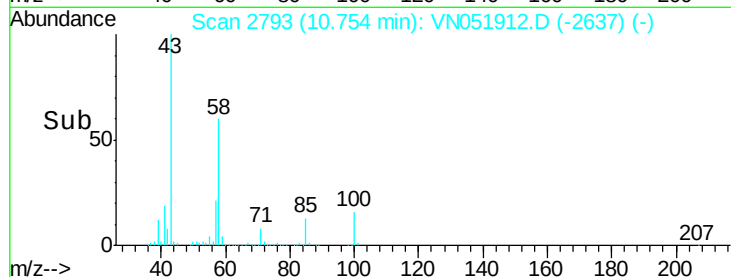
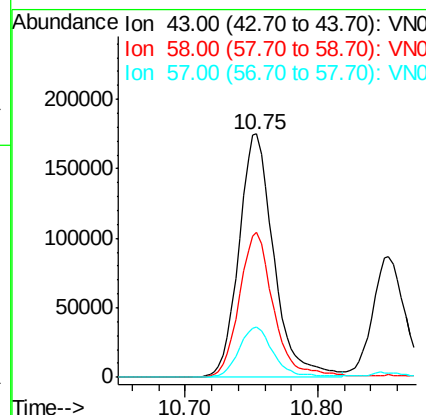
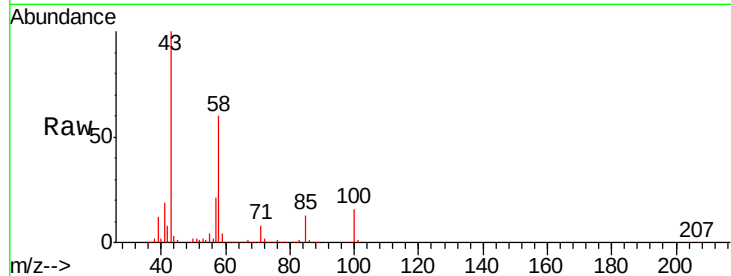
#59
2-Hexanone
Concen: 86.38 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	59.3	41.3	61.9
57	21.0	13.4	20.0

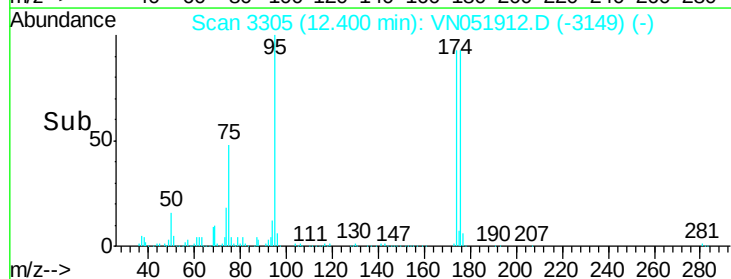
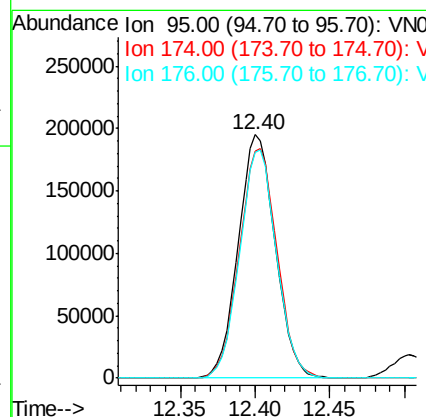
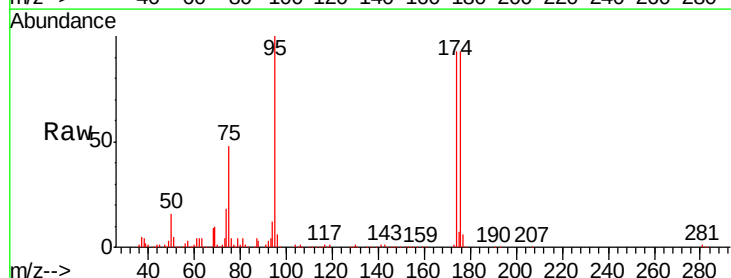
Manual Integrations
APPROVED

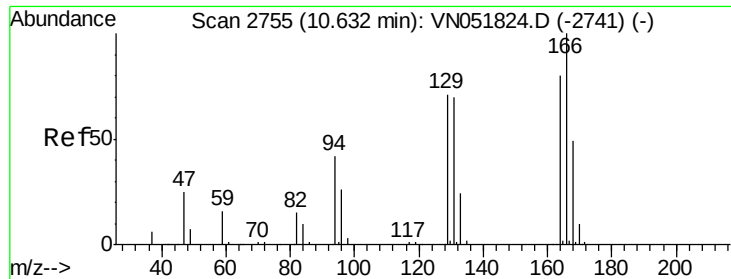
MMDadoda
10/19/2018 4:37:54 PM



#60
4-Bromofluorobenzene
Concen: 86.38 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.9	73.5	110.3
176	93.4	70.2	105.2





#61

Tetrachloroethene

Concen: 21.14 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 164 Resp: 220983

Ion Ratio Lower Upper

164 100

166 126.9 98.7 148.1

129 88.5 69.6 104.4

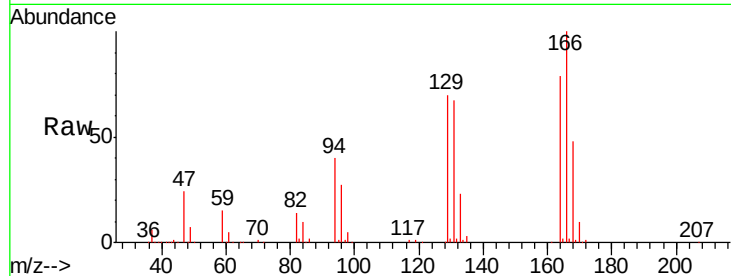
131 85.1 72.4 108.6

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:37:54 PM

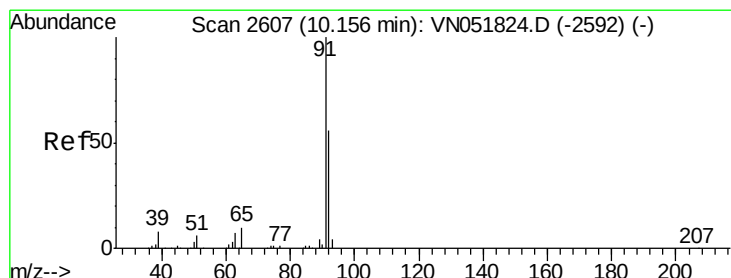
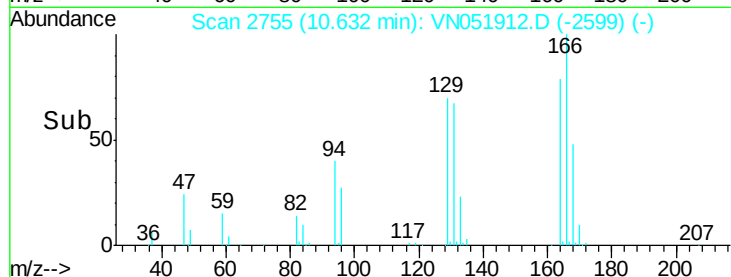
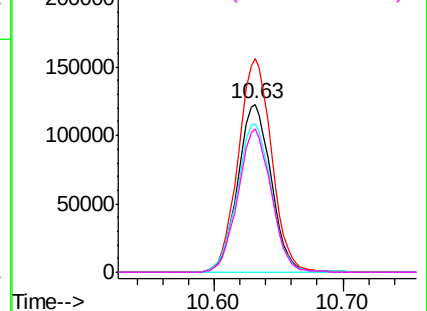


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 19.80 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051912.D

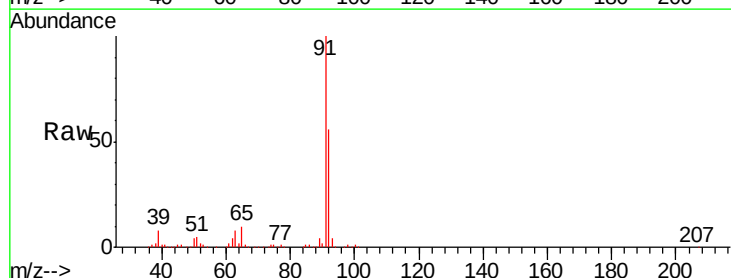
Acq: 18 Oct 2018 13:21

Tgt Ion: 91 Resp: 803892

Ion Ratio Lower Upper

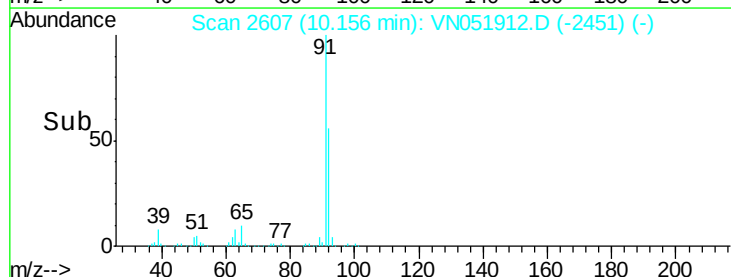
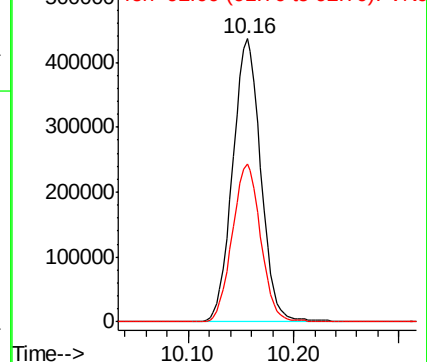
91 100

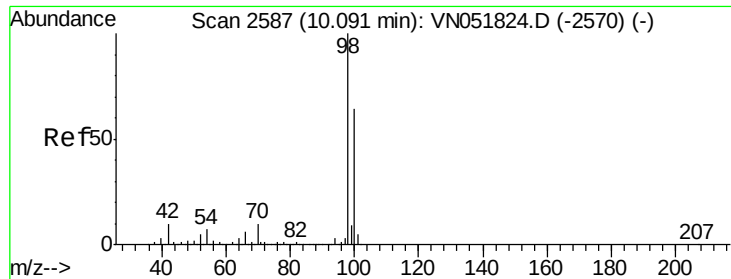
92 56.3 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 19.80 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 98 Resp: 1075235

Ion Ratio Lower Upper

98 100

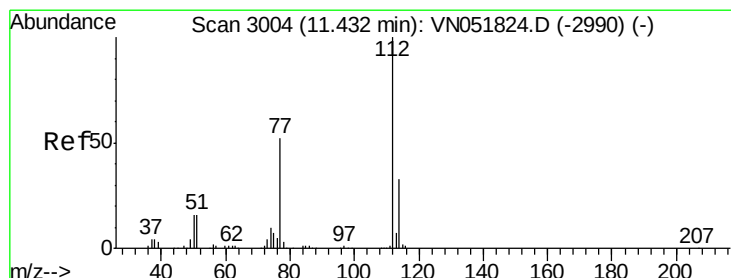
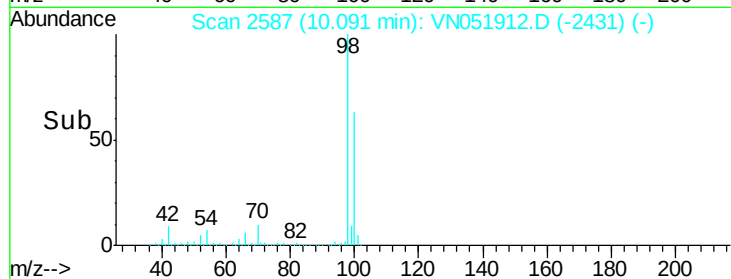
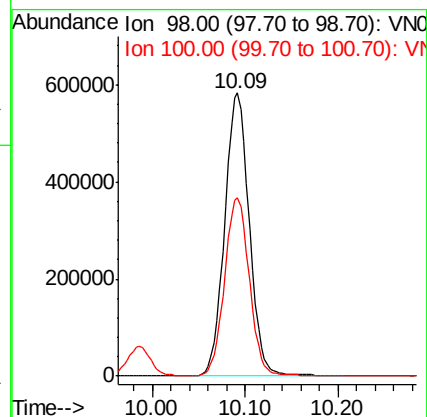
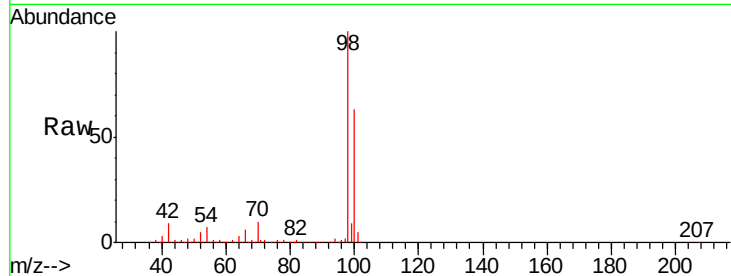
100 63.1 50.8 76.2

Manual Integrations

APPROVED

MMDadoda

10/19/2018 4:37:54 PM



#64

Chlorobenzene

Concen: 19.47 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN051912.D

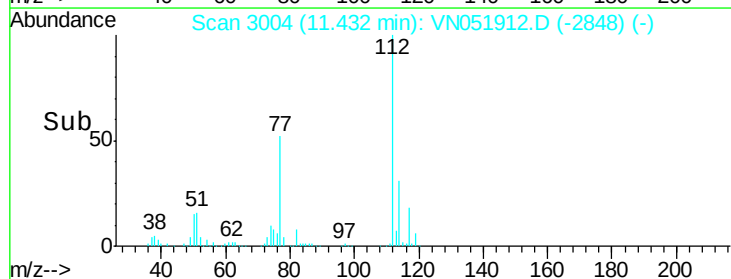
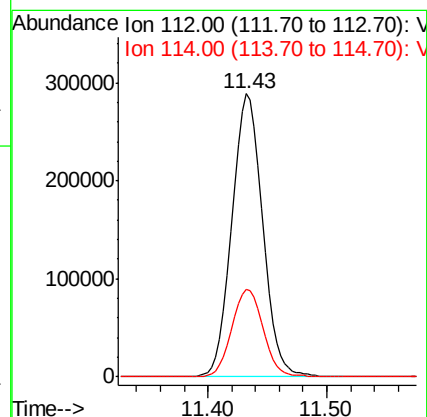
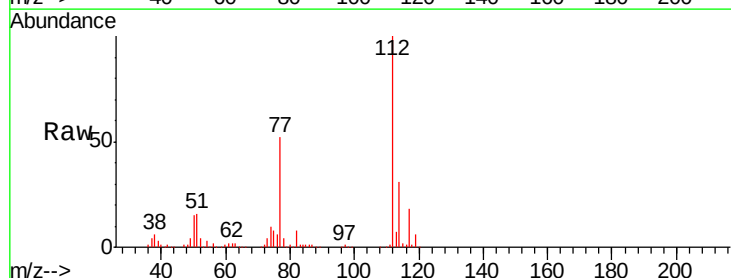
Acq: 18 Oct 2018 13:21

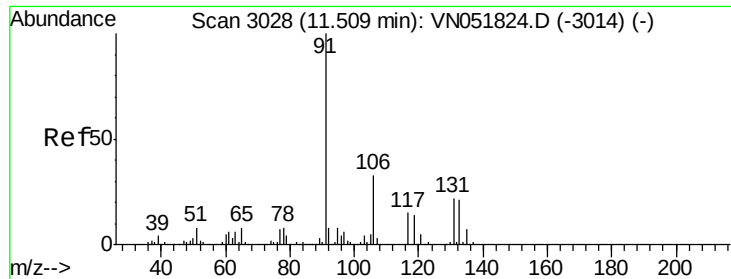
Tgt Ion: 112 Resp: 517843

Ion Ratio Lower Upper

112 100

114 30.9 27.5 41.3





#65

1,1,1,2-Tetrachloroethane

Concen: 19.46 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

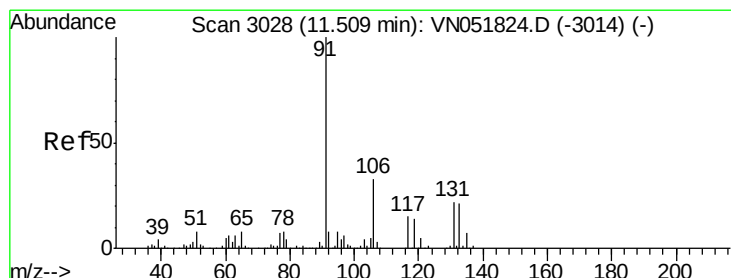
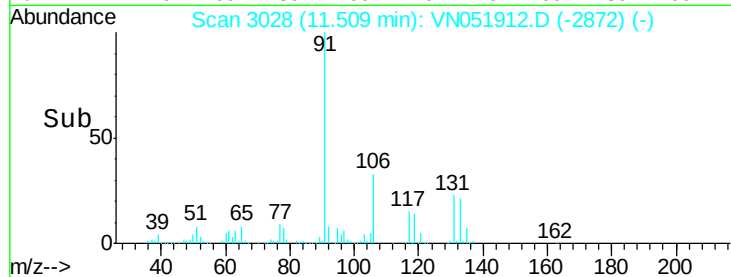
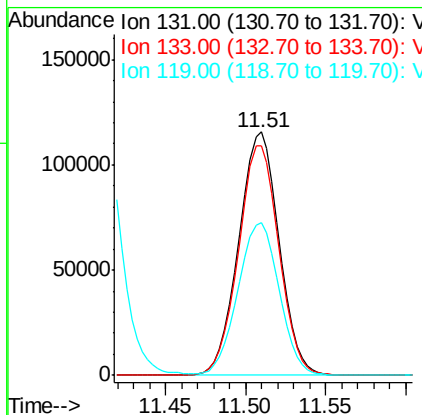
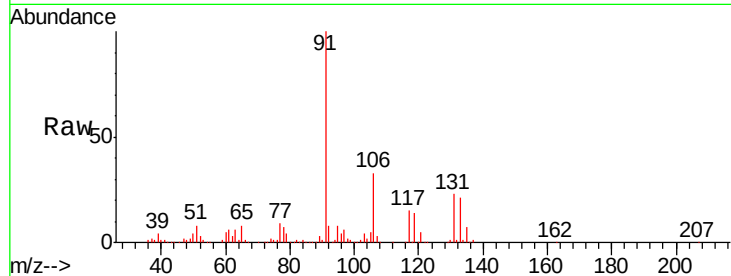
ClientSampleId :

VN1018WBS01

Tgt Ion:	131	Resp:	198627
Ion Ratio	Lower	Upper	
131	100		
133	94.8	0.0	190.4
119	64.5	0.0	128.0

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#66

Ethyl Benzene

Concen: 19.21 ug/l

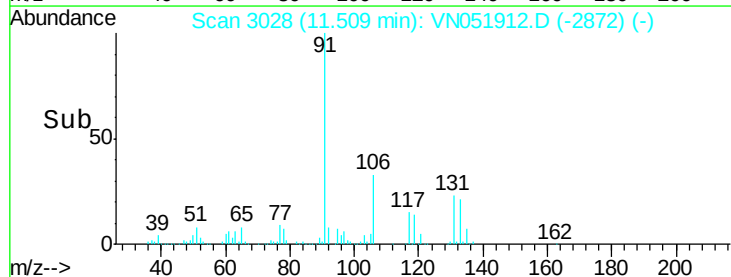
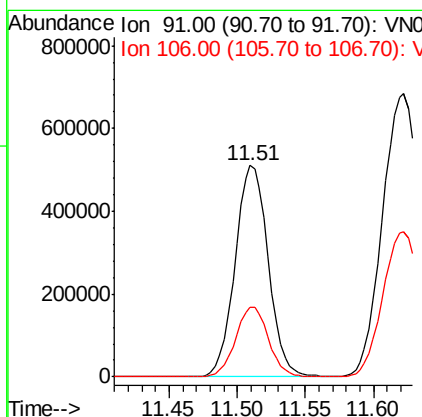
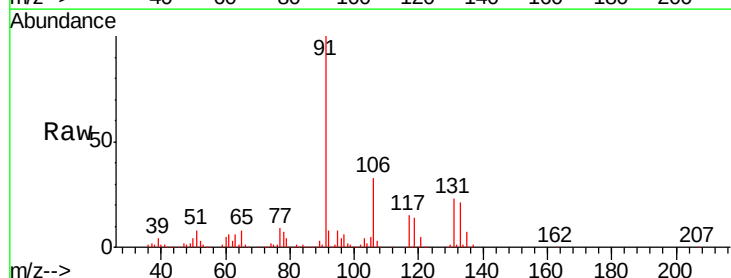
RT: 11.51 min Scan# 3028

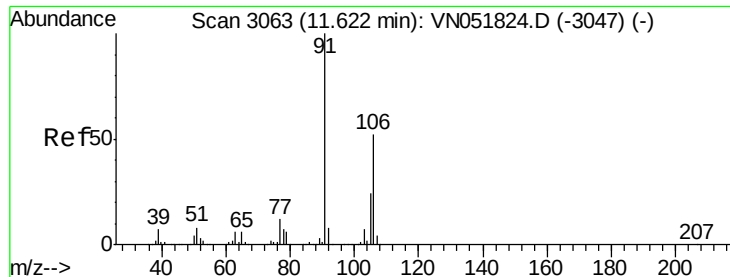
Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion:	91	Resp:	861930
Ion Ratio	Lower	Upper	
91	100		
106	33.2	25.9	38.9





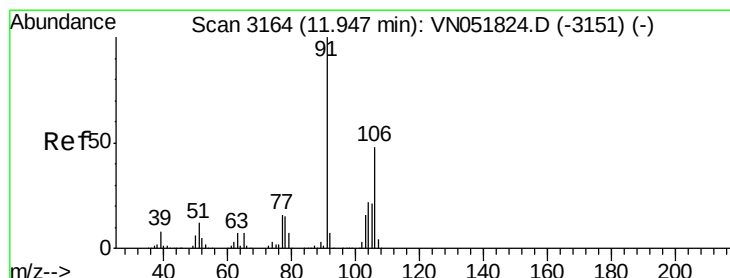
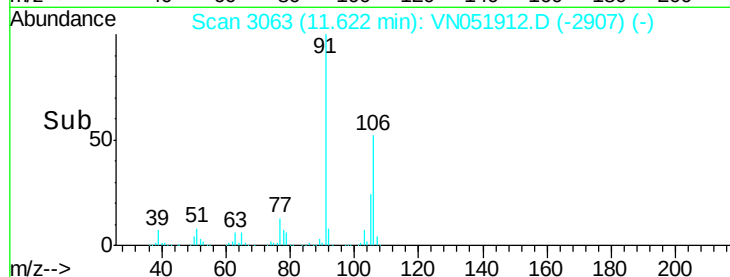
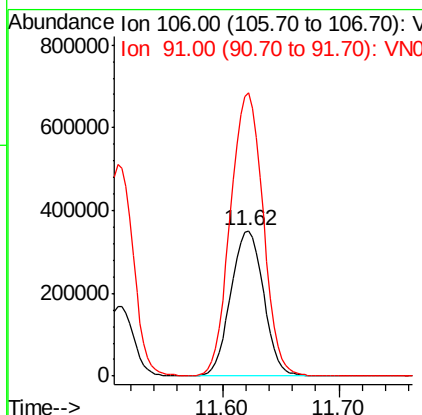
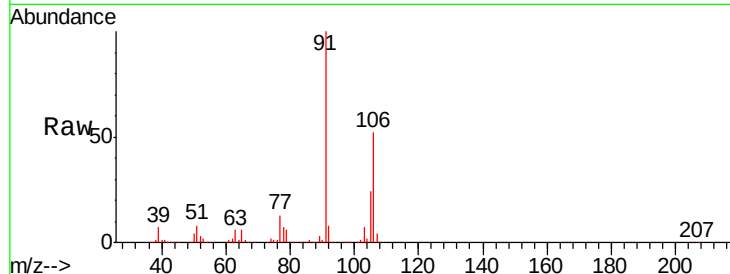
#67
m/p-Xylenes
Concen: 37.95 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion:106 Resp: 690533
Ion Ratio Lower Upper
106 100
91 194.0 158.8 238.2

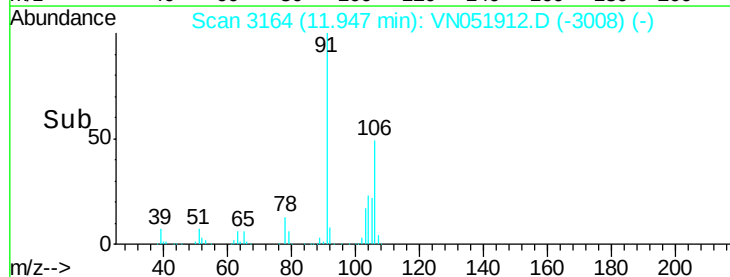
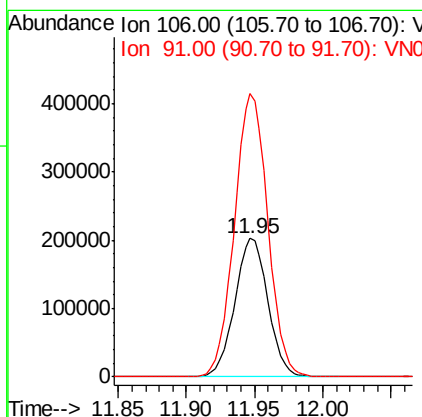
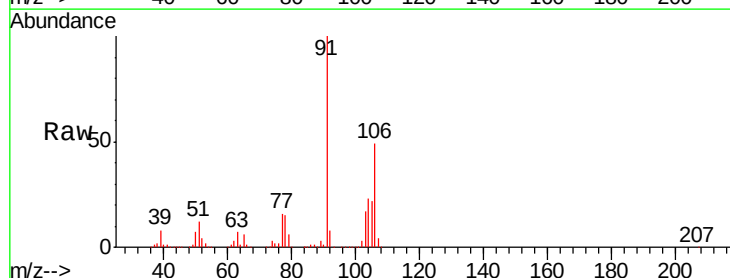
Manual Integrations
APPROVED

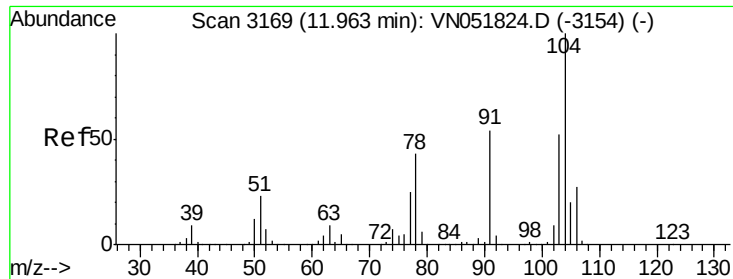
MMDadoda
10/19/2018 4:37:54 PM



#68
o-Xylene
Concen: 19.01 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion:106 Resp: 340912
Ion Ratio Lower Upper
106 100
91 206.3 111.1 333.3





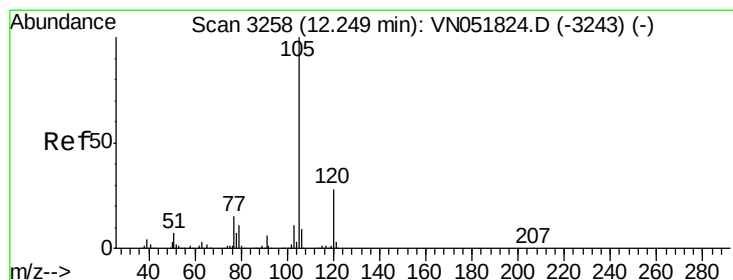
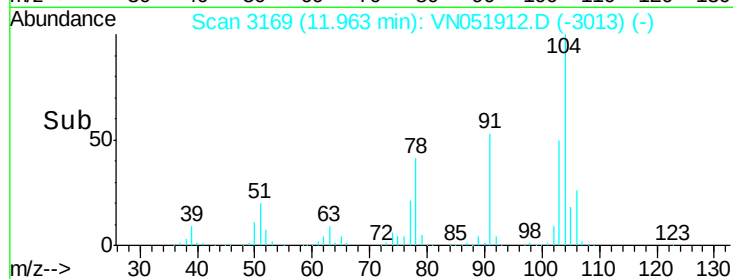
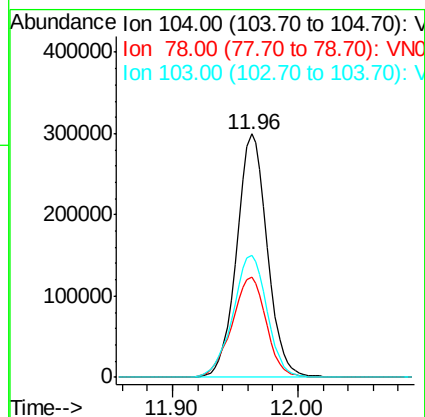
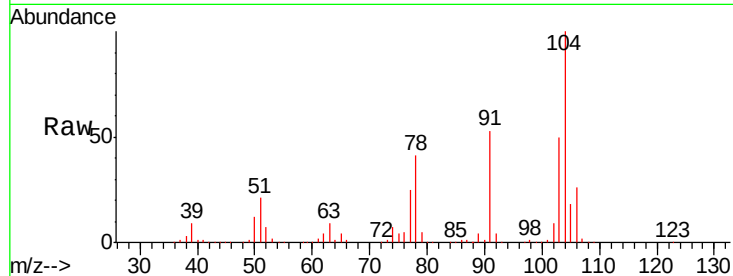
#69
Styrene
Concen: 18.43 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.3	40.6	60.8
103	56.1	44.0	66.0

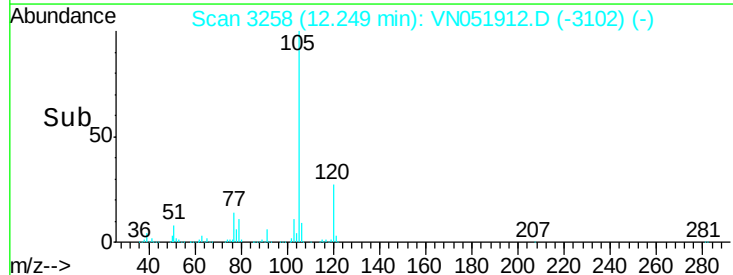
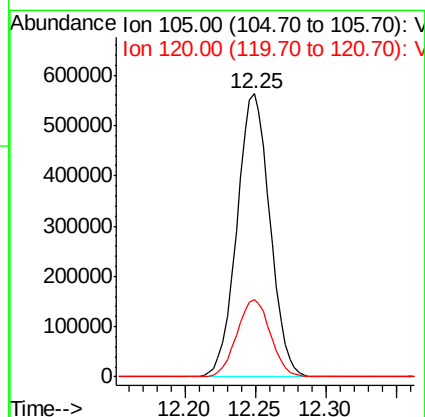
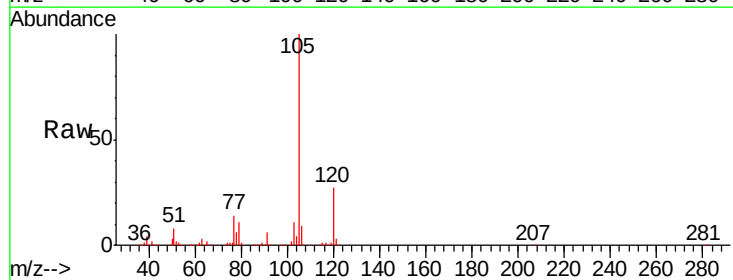
Manual Integrations
APPROVED

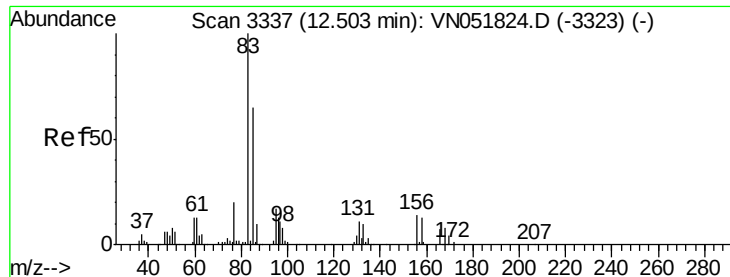
MMDadoda
10/19/2018 4:37:54 PM



#70
Isopropylbenzene
Concen: 19.31 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.8	19.0	35.4





#71

1,1,2,2-Tetrachloroethane

Concen: 19.03 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 83 Resp: 179778

Ion Ratio Lower Upper

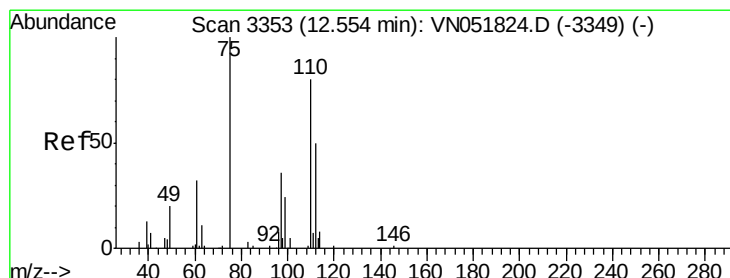
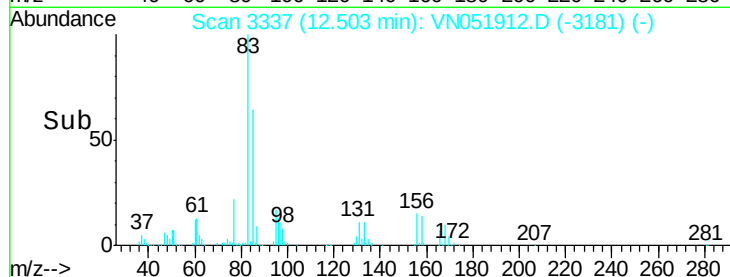
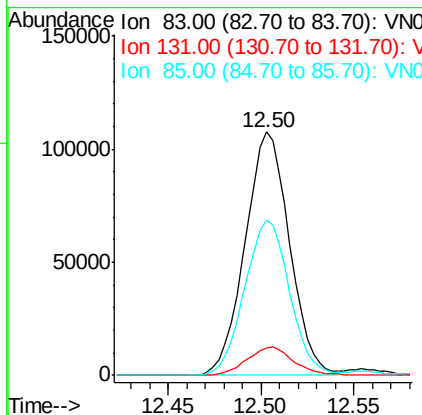
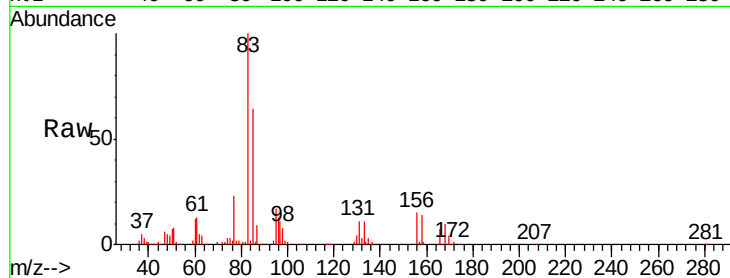
83 100

131 12.3 5.5 16.4

85 64.3 30.6 91.8

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#72

1,2,3-Trichloropropane

Concen: 19.75 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051912.D

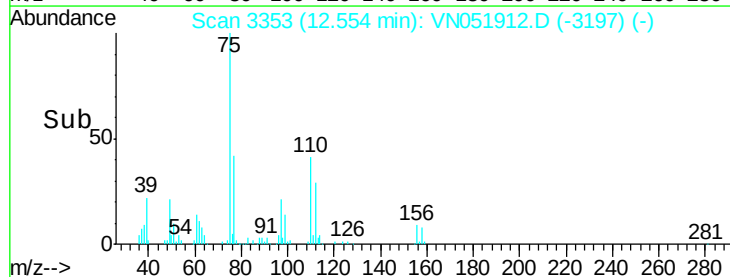
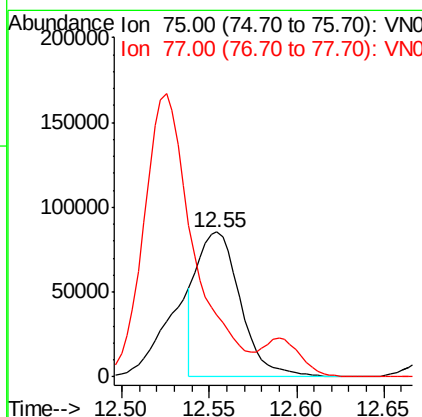
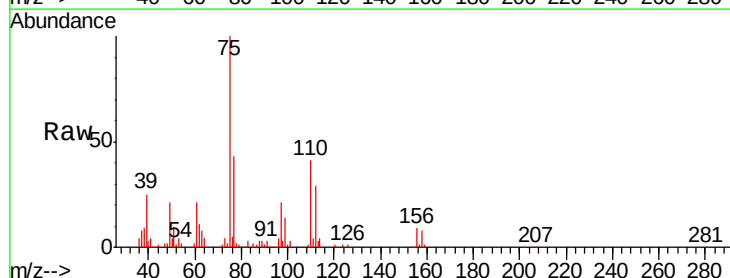
Acq: 18 Oct 2018 13:21

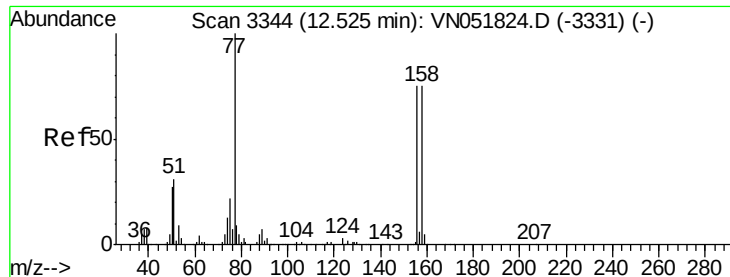
Tgt Ion: 75 Resp: 146733

Ion Ratio Lower Upper

75 100

77 226.6 0.0 400.0





#73

Bromobenzene

Concen: 18.68 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

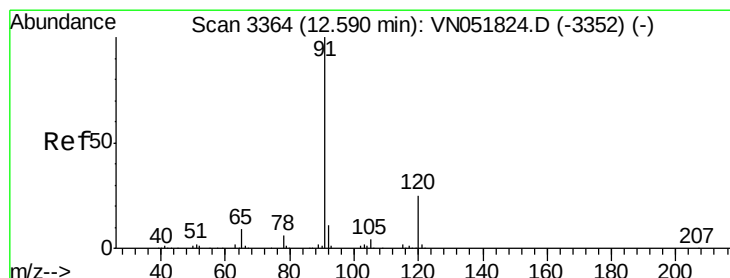
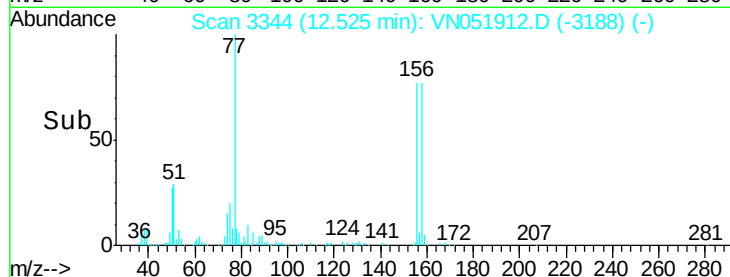
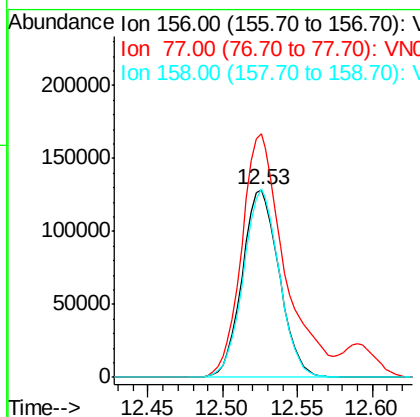
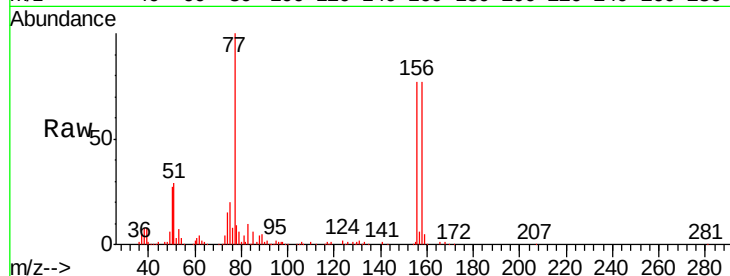
ClientSampleId :

VN1018WBS01

Tgt Ion:	156	Resp:	221266
Ion Ratio	Lower	Upper	
156	100		
77	150.3	0.0	377.4
158	97.7	0.0	203.0

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#74

n-propylbenzene

Concen: 18.96 ug/l

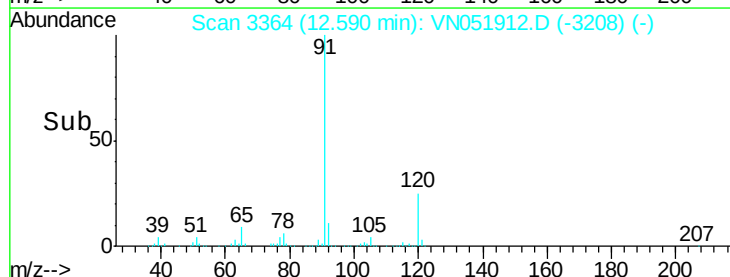
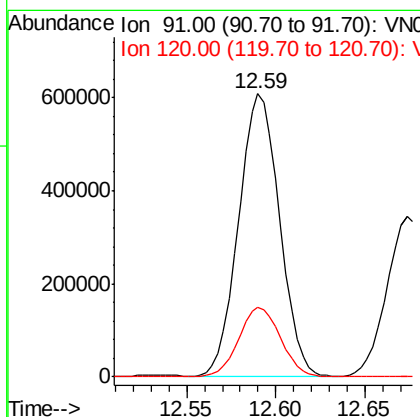
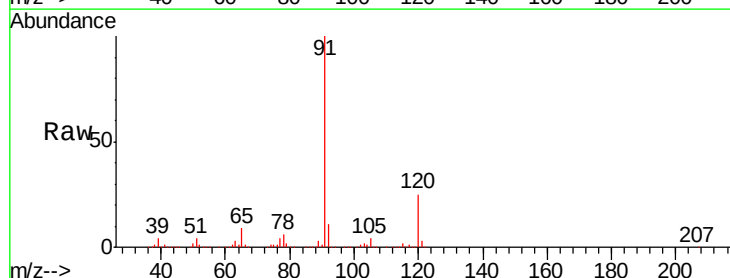
RT: 12.59 min Scan# 3364

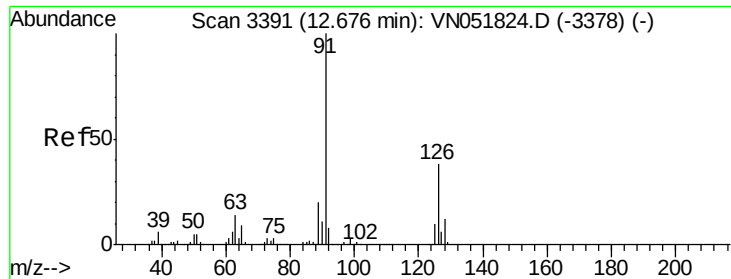
Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion:	91	Resp:	975321
Ion Ratio	Lower	Upper	
91	100		
120	24.9	0.0	45.0





#75

2-Chlorotoluene

Concen: 19.13 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 91 Resp: 576975

Ion Ratio Lower Upper

91 100

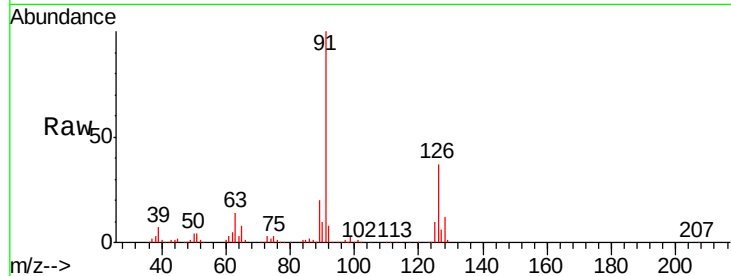
126 38.0 0.0 67.6

Manual Integrations

APPROVED

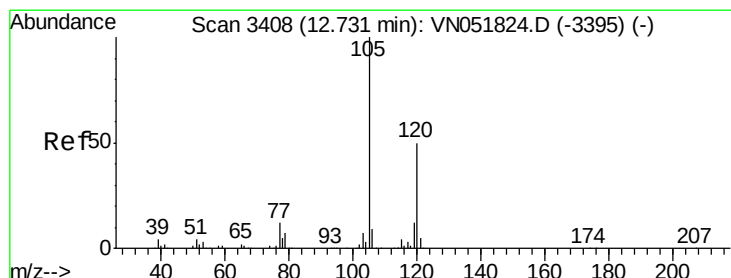
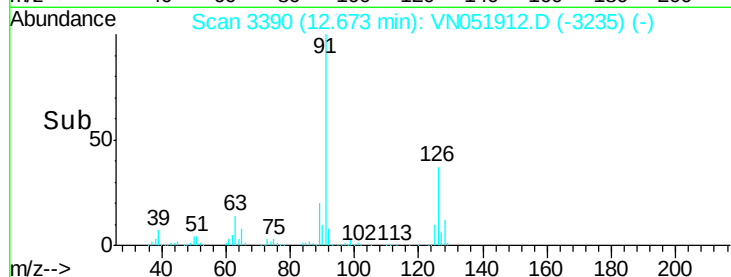
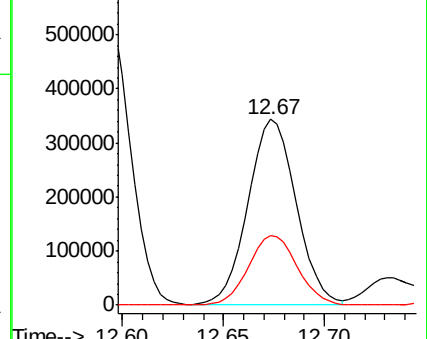
MMDadoda

10/19/2018 4:37:54 PM



Abundance Ion 91.00 (90.70 to 91.70): VN051912.D (-3235) (-)

Ion 126.00 (125.70 to 126.70): VN051912.D (-3235) (-)



#76

1,3,5-Trimethylbenzene

Concen: 19.05 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051912.D

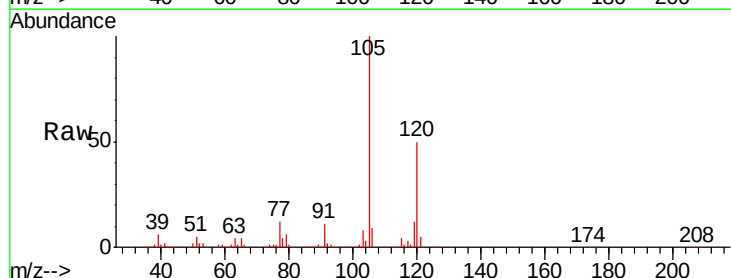
Acq: 18 Oct 2018 13:21

Tgt Ion: 105 Resp: 753526

Ion Ratio Lower Upper

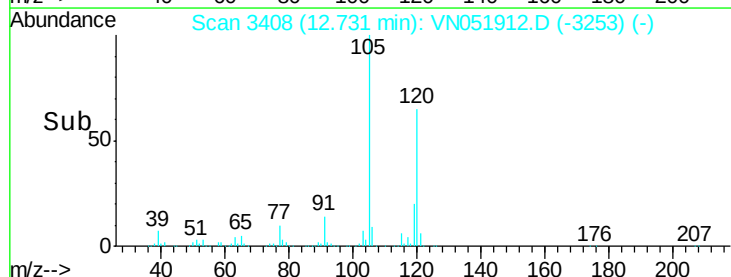
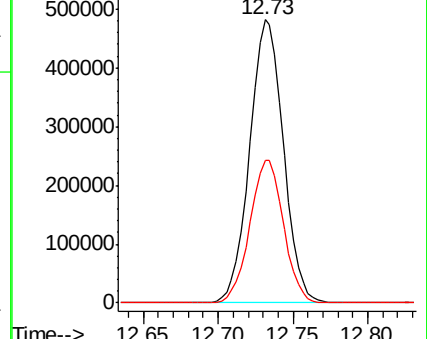
105 100

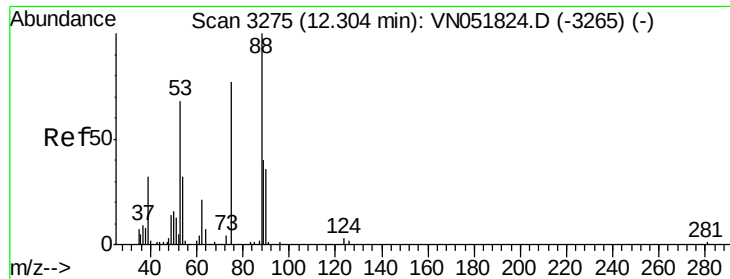
120 50.5 0.0 98.2



Abundance Ion 105.00 (104.70 to 105.70): VN051912.D (-3253) (-)

Ion 120.00 (119.70 to 120.70): VN051912.D (-3253) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 14.54 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

ClientSampleId :

VN1018WBS01

Tgt Ion: 75 Resp: 35729

Ion Ratio Lower Upper

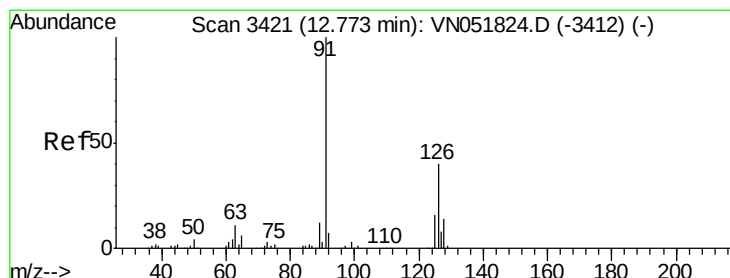
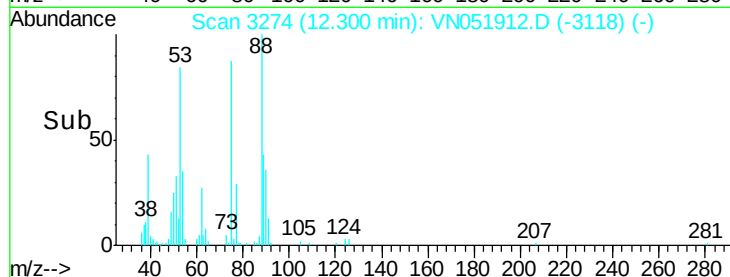
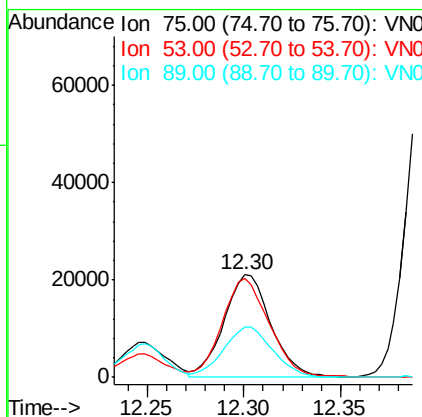
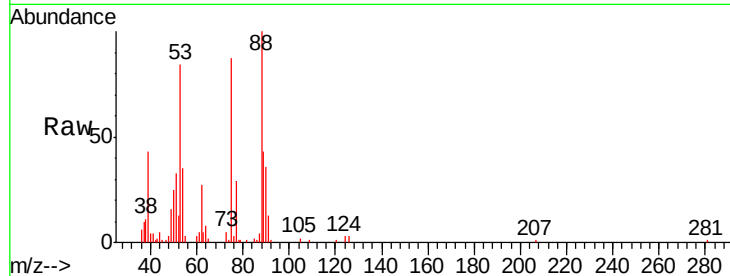
75 100

53 95.5 46.3 138.9

89 48.9 24.6 73.8

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#78

4-Chlorotoluene

Concen: 18.43 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN051912.D

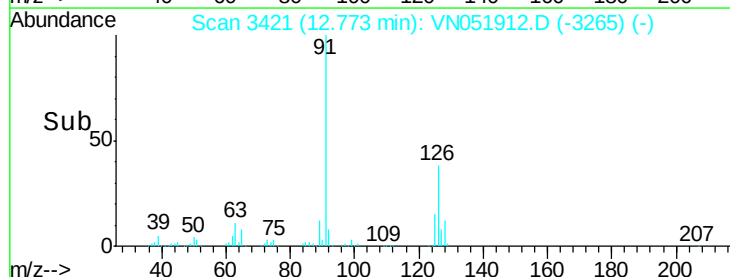
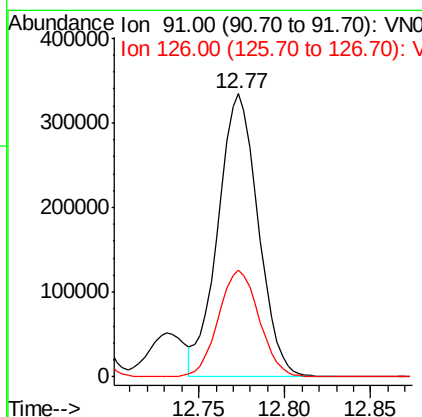
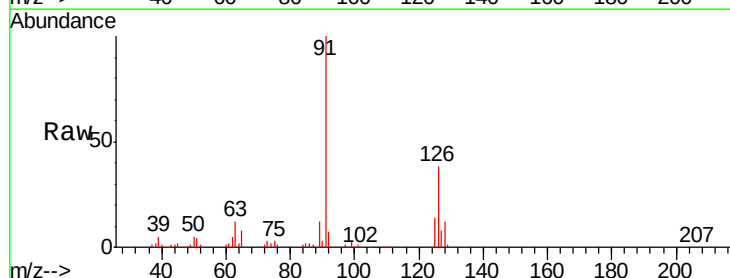
Acq: 18 Oct 2018 13:21

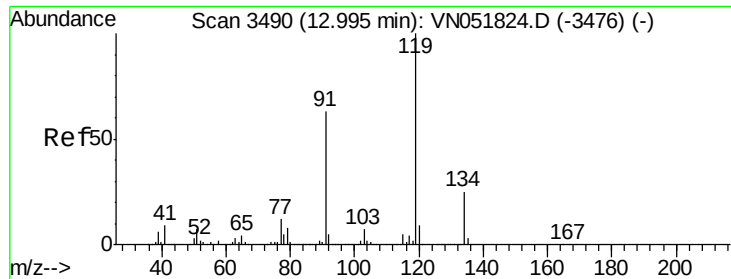
Tgt Ion: 91 Resp: 546204

Ion Ratio Lower Upper

91 100

126 37.9 0.0 65.2





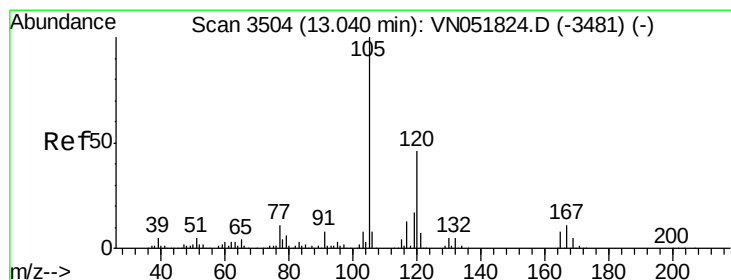
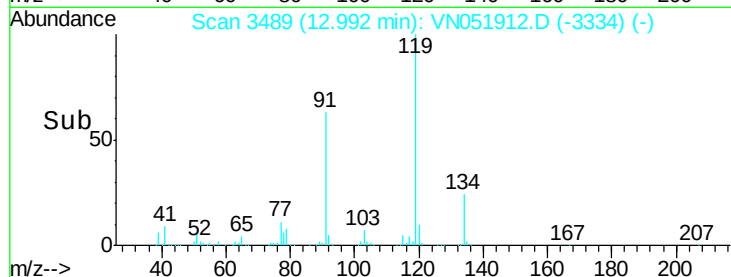
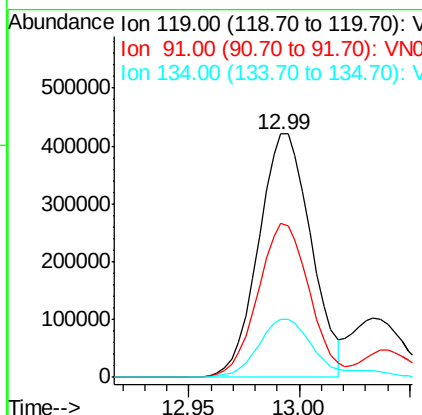
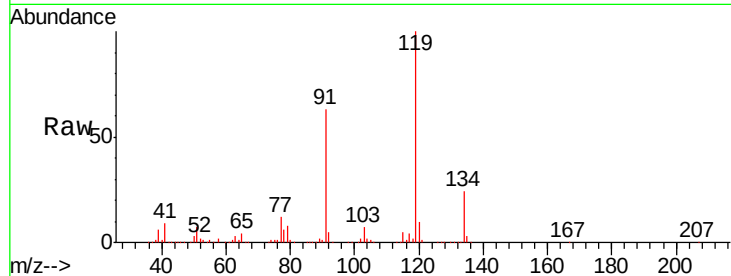
#79
tert-butylbenzene
Concen: 19.15 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Instrument :
MSVOA_N
ClientSampleId :
VN1018WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	696515		
91	61.9	0.0	131.6	
134	24.3	0.0	46.2	

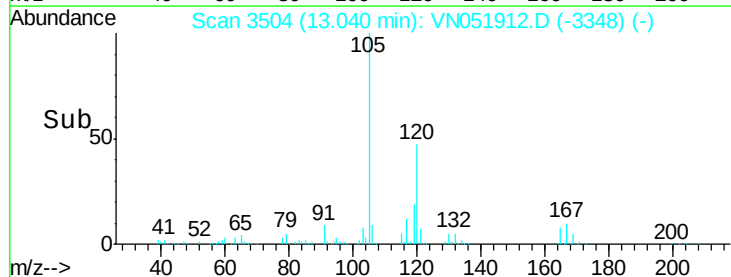
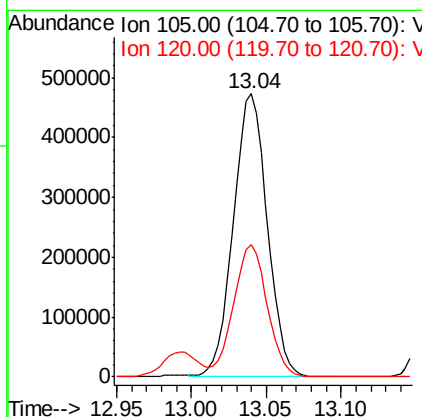
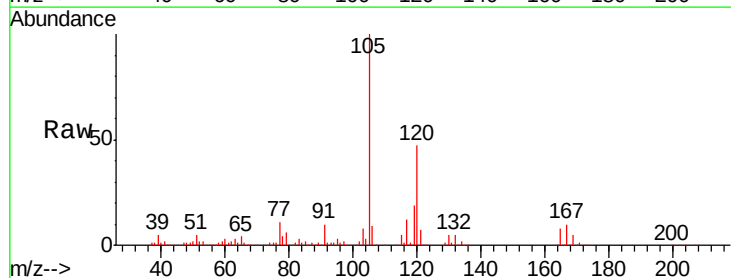
Manual Integrations
APPROVED

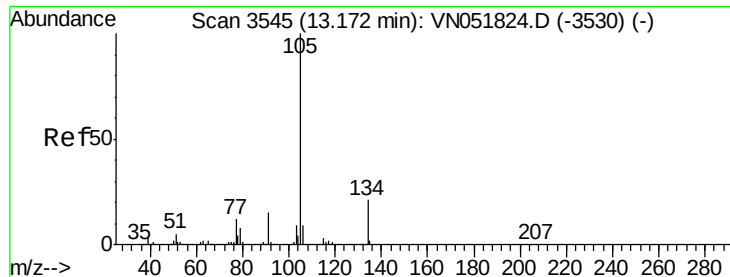
MMDadoda
10/19/2018 4:37:54 PM



#80
1,2,4-Trimethylbenzene
Concen: 18.89 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN051912.D
Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	746795		
120	46.4	0.0	89.6	





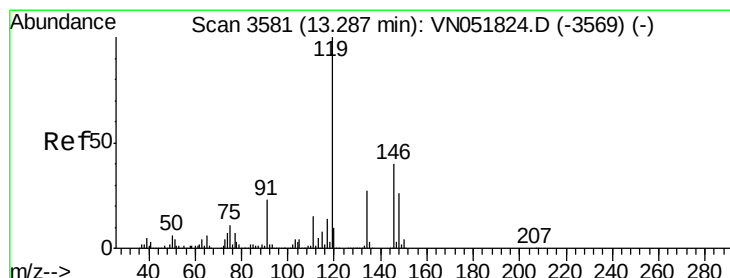
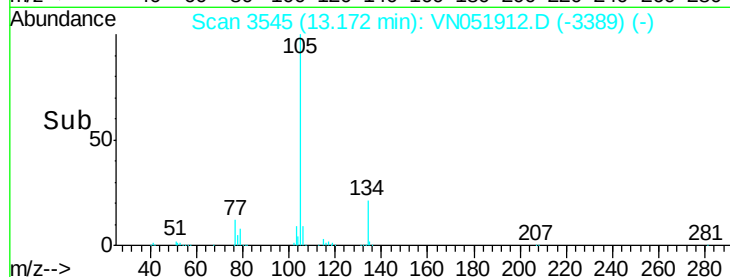
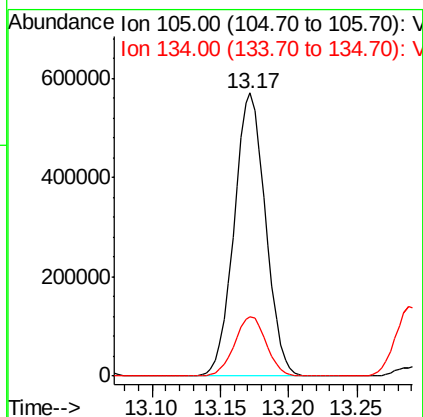
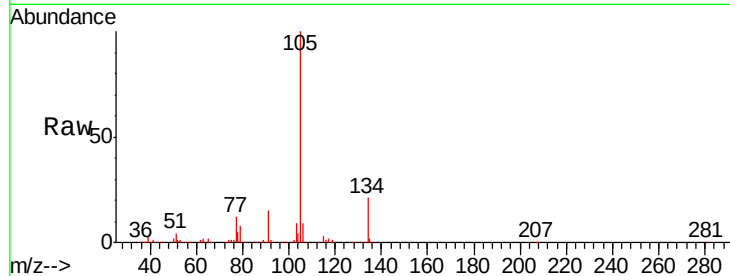
#81
 sec-Butylbenzene
 Concen: 19.15 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	911004		
134	21.2	0.0	39.4	

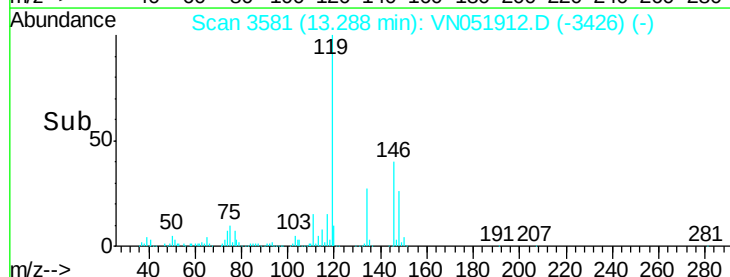
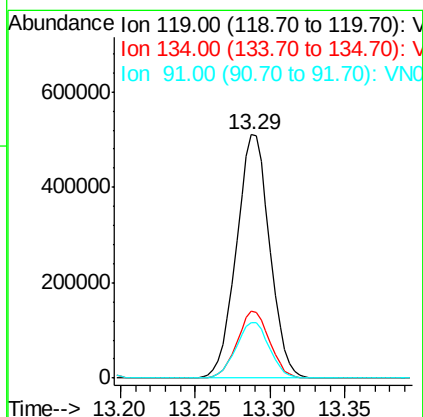
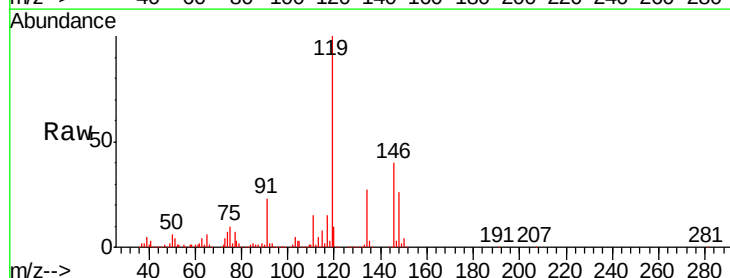
Manual Integrations
 APPROVED

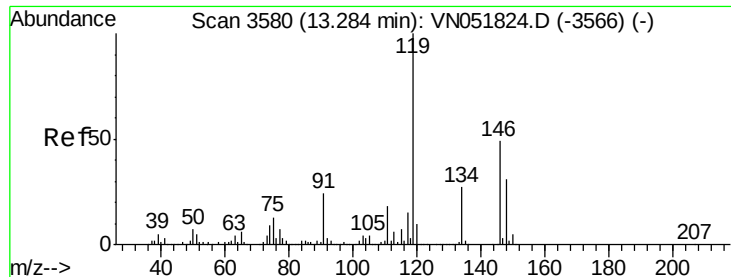
MMDadoda
 10/19/2018 4:37:54 PM



#82
 p-Isopropyltoluene
 Concen: 18.50 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	787888		
134	27.0	0.0	53.6	
91	22.9	0.0	52.0	





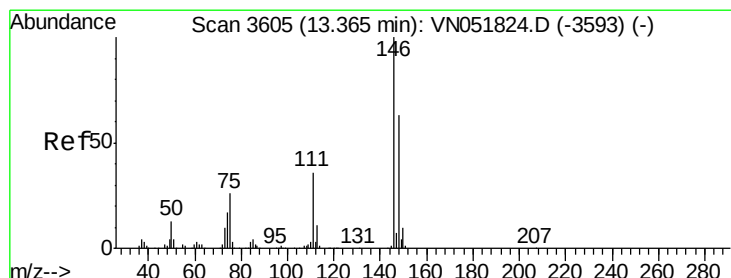
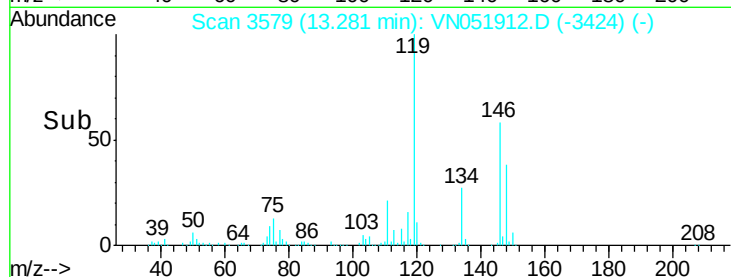
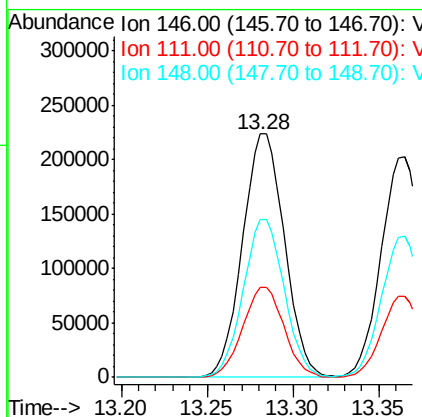
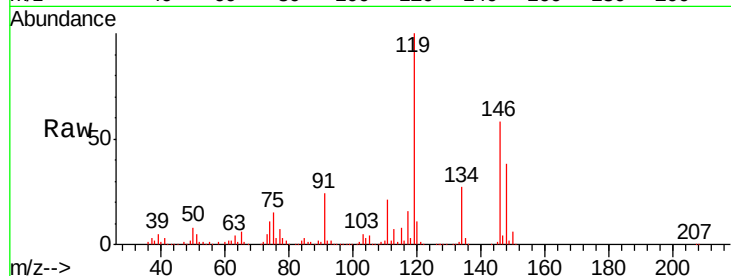
#83
 1,3-Dichlorobenzene
 Concen: 18.12 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.1	54.3
148	63.3	31.3	93.8

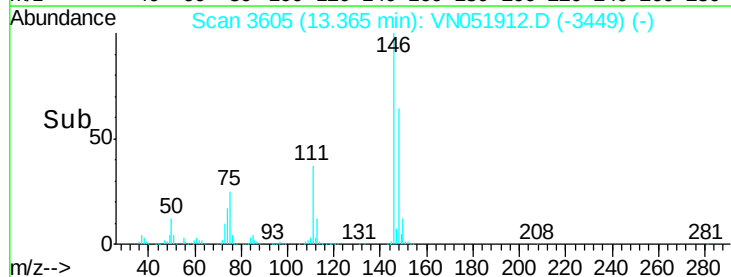
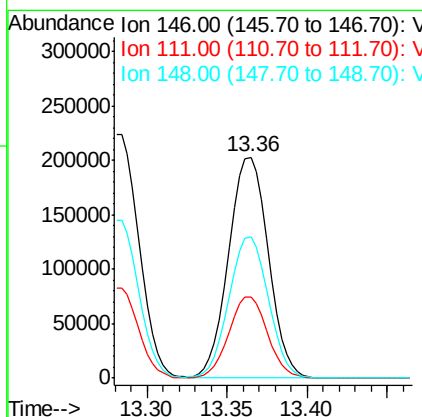
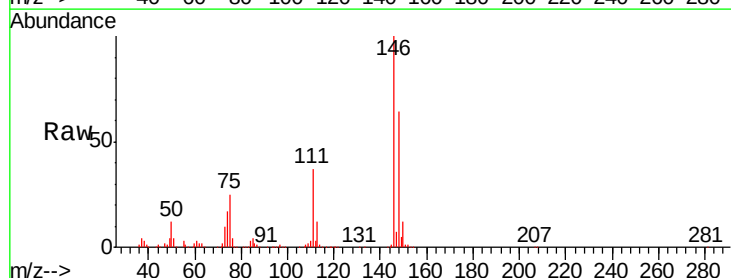
Manual Integrations
 APPROVED

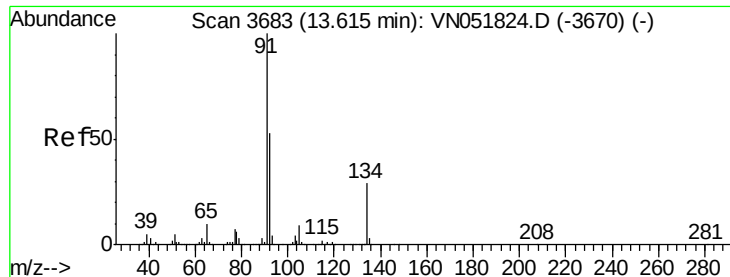
MMDadoda
 10/19/2018 4:37:54 PM



#84
 1,4-Dichlorobenzene
 Concen: 17.52 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.8	17.4	52.2
148	63.4	32.8	98.3





#85

n-Butylbenzene

Concen: 17.91 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

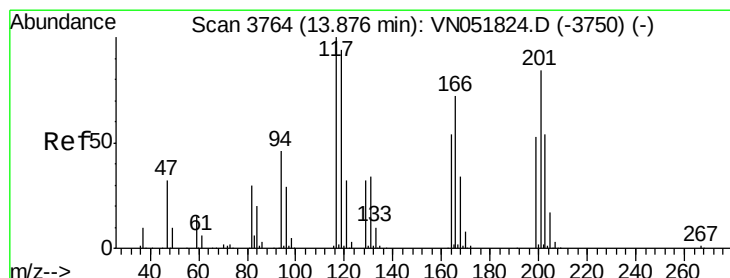
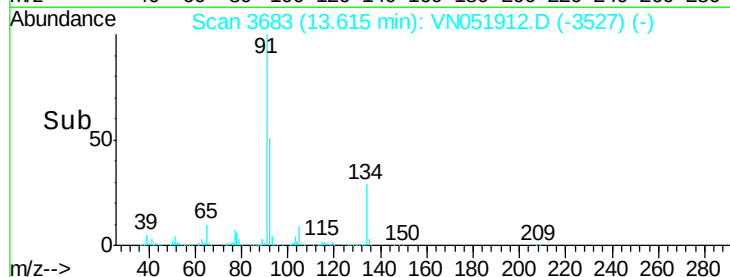
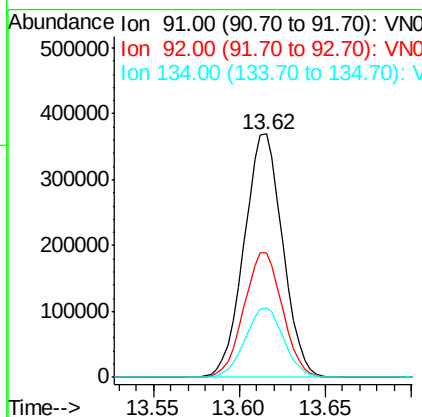
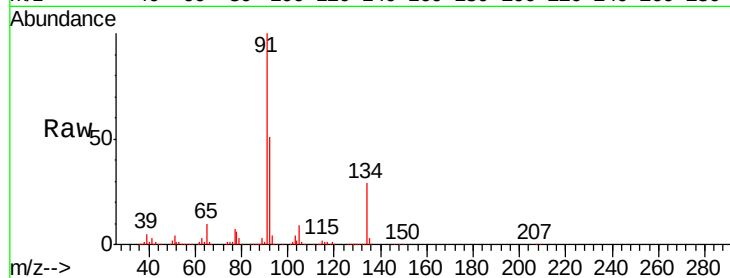
ClientSampleId :

VN1018WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	575172		
92	51.2	0.0	97.4	
134	28.6	0.0	49.6	

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#86

Hexachloroethane

Concen: 17.70 ug/l

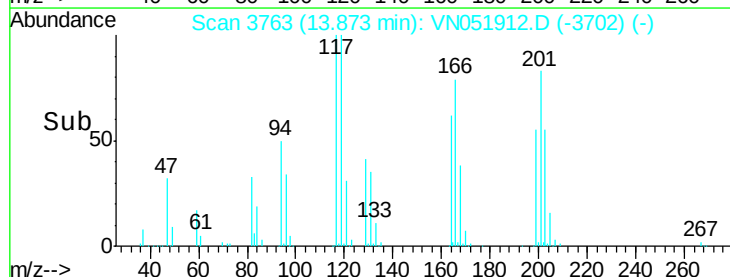
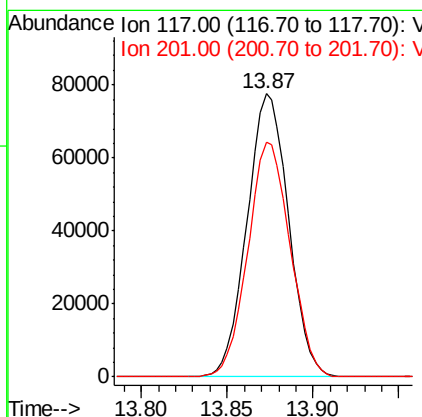
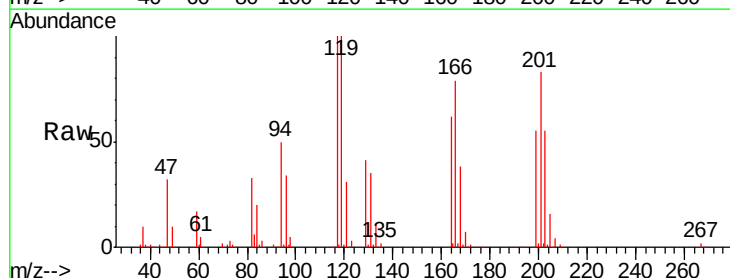
RT: 13.87 min Scan# 3763

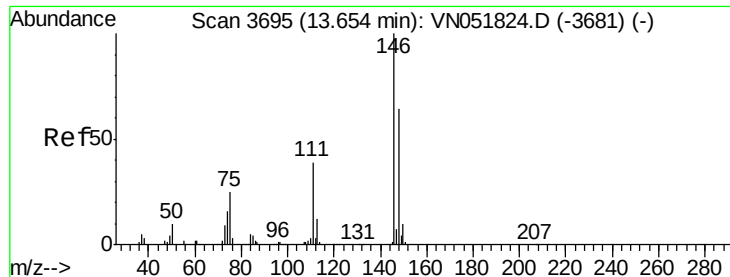
Delta R.T. -0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	129936		
201	84.5	47.8	143.3	





#87

1,2-Dichlorobenzene

Concen: 18.36 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

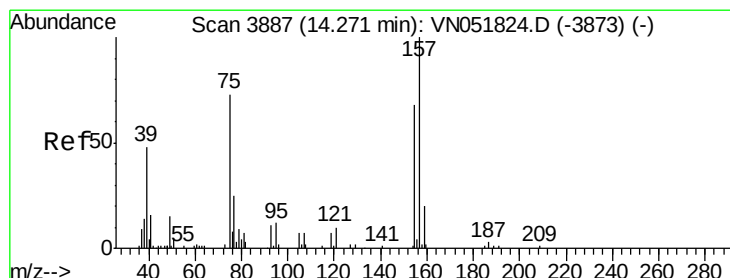
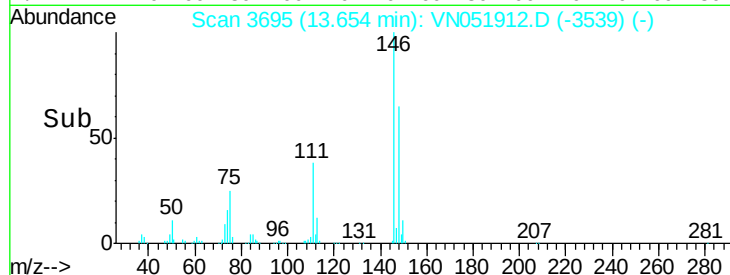
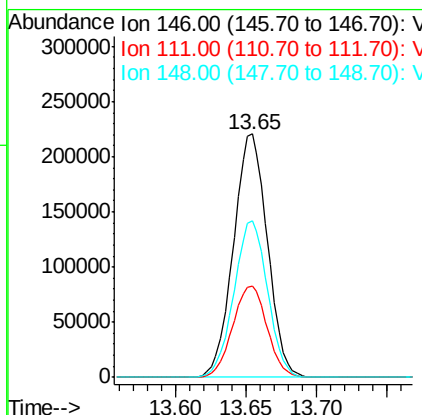
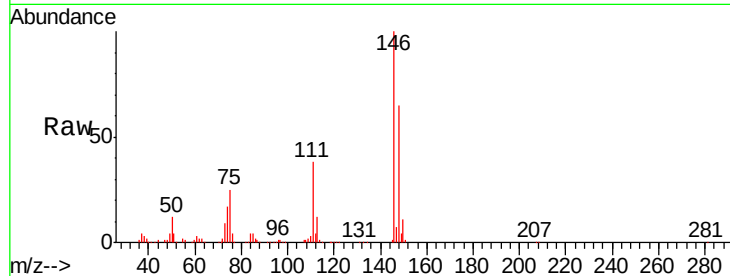
ClientSampleId :

VN1018WBS01

Tgt Ion:	146	Resp:	371632
Ion Ratio		Lower	Upper
146	100		
111	38.2	20.8	62.2
148	63.8	33.2	99.6

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



#88

1,2-Dibromo-3-Chloropropane

Concen: 16.45 ug/l

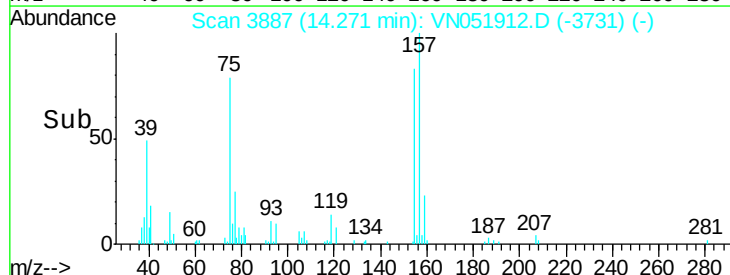
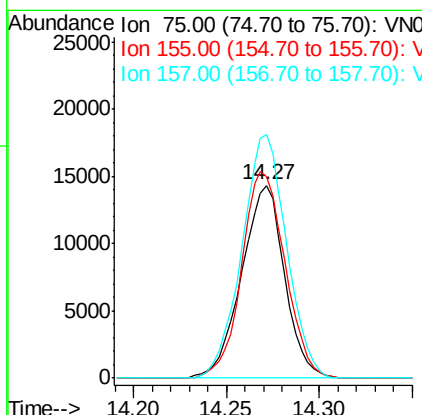
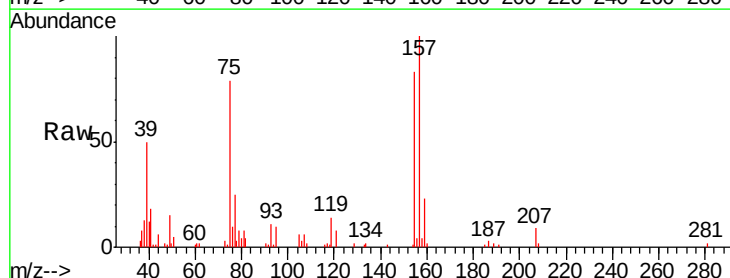
RT: 14.27 min Scan# 3887

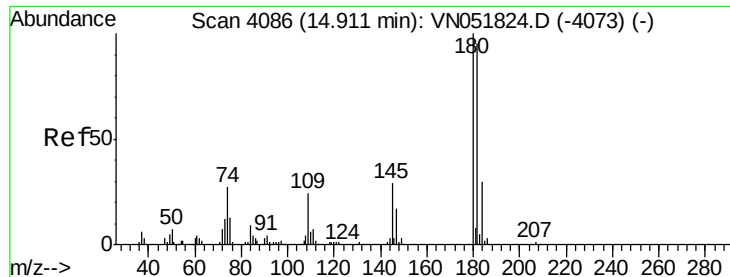
Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion:	75	Resp:	23205
Ion Ratio		Lower	Upper
75	100		
155	108.2	57.0	85.6#
157	131.1	87.4	131.0#





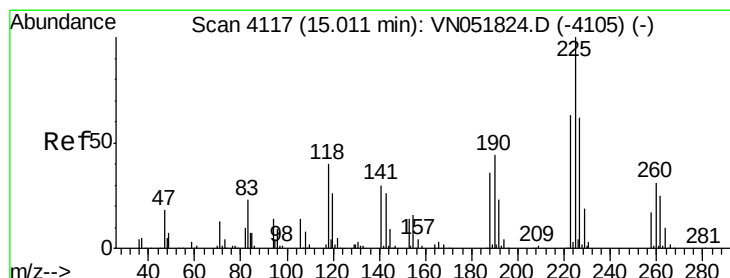
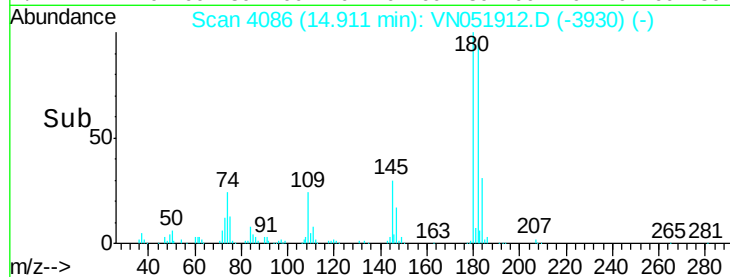
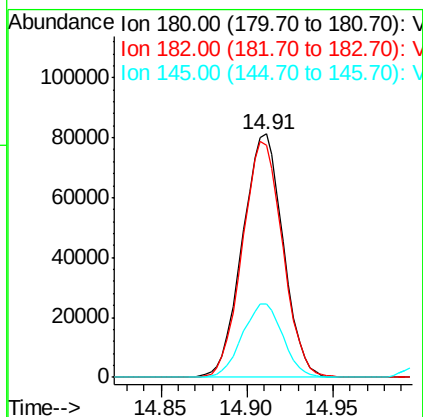
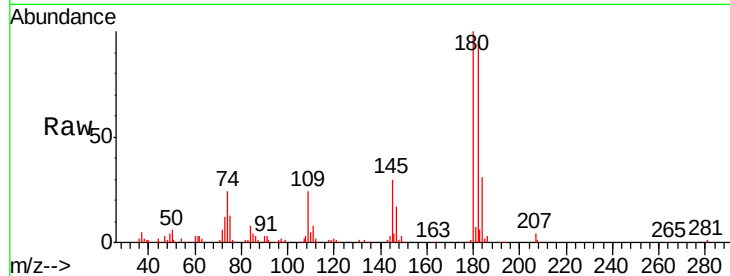
#89
 1,2,4-Trichlorobenzene
 Concen: 17.68 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBS01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.7	116.5
145	30.2	23.4	35.2

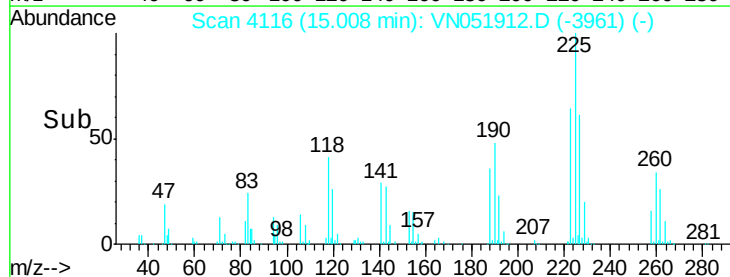
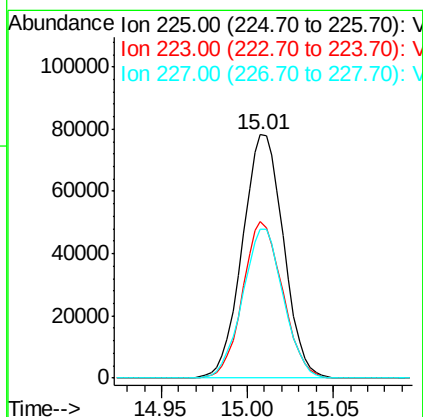
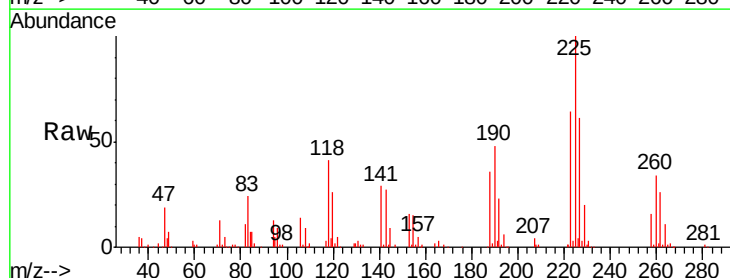
Manual Integrations
 APPROVED

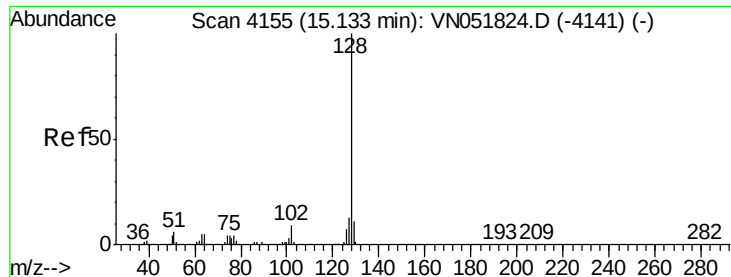
MMDadoda
 10/19/2018 4:37:54 PM



#90
 Hexachlorobutadiene
 Concen: 19.85 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN051912.D
 Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	0.0	117.0
227	60.8	0.0	127.0





#91

Naphthalene

Concen: 17.35 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Instrument :

MSVOA_N

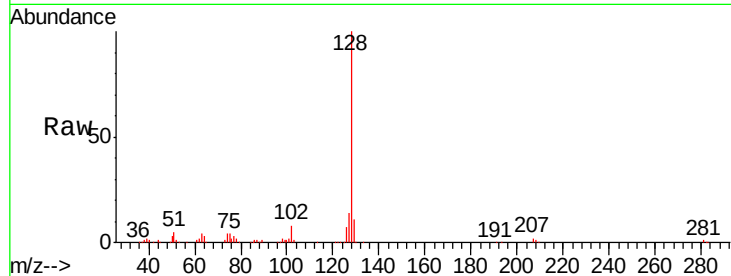
ClientSampleId :

VN1018WBS01

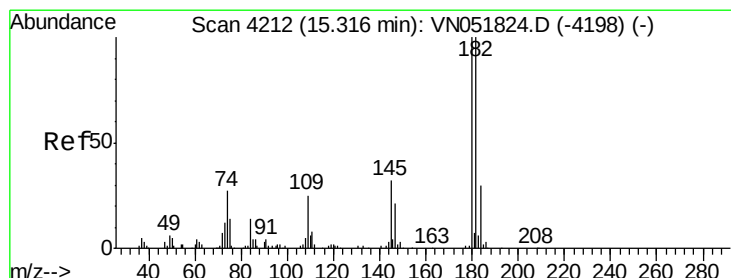
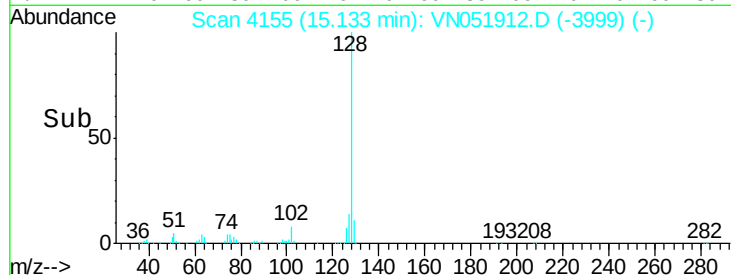
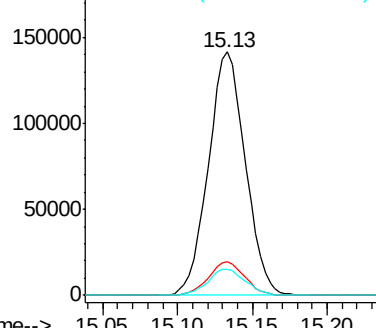
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	243959		
127	13.5	10.1	15.1	
129	11.1	8.4	12.6	

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:37:54 PM



Abundance Ion 128.00 (127.70 to 128.70): V



#92

1,2,3-Trichlorobenzene

Concen: 15.68 ug/l

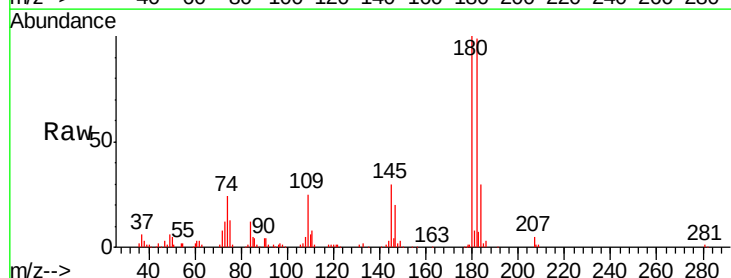
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051912.D

Acq: 18 Oct 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	144340		
182	97.4	0.0	198.0	
145	30.9	0.0	36.8	



Abundance Ion 180.00 (179.70 to 180.70): V

