

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050039.D
 Acq On : 25 Jul 2018 9:46
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:55 PM

Quant Time: Jul 26 15:13:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 12:20:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	143518	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	760108	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	686779	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	286406	28.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.30%
60) 4-Bromofluorobenzene	12.40	95	328766	31.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.10%
63) Toluene-d8	10.09	98	967265	28.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.73%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	1007373	90.23	ug/l	98
3) Chloromethane	2.06	50	1001838	93.86	ug/l	100
4) Vinyl Chloride	2.18	62	1063702	92.78	ug/l	97
5) Bromomethane	2.55	94	637453	92.74	ug/l	99
6) Chloroethane	2.69	64	611584	90.90	ug/l	99
7) Trichlorofluoromethane	3.00	101	1354601	88.94	ug/l	100
8) Diethyl Ether	3.41	74	478488	102.11	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	815154	87.70	ug/l	99
10) 1,1-Dichloroethene	3.73	96	750655	93.94	ug/l	95
11) Methyl Iodide	3.95	142	1189767	104.33	ug/l	99
12) Methyl Acetate	4.33	43	884528	96.71	ug/l	99
13) Acrolein	3.61	56	249905	517.44	ug/l	96
14) Acrylonitrile	4.99	53	1532990	527.51	ug/l	99
15) Acetone	3.82	58	382943	467.25	ug/l	100
16) Carbon Disulfide	4.05	76	2277116	94.00	ug/l	100
17) Allyl chloride	4.32	41	1243860	102.98	ug/l	99
18) Methylene Chloride	4.55	84	850957	92.99	ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	812707	95.37	ug/l	97
20) Diisopropyl ether	5.96	45	2569101	99.40	ug/l	98
21) 1,1-Dichloroethane	5.85	63	1508261	93.70	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	921561	99.64	ug/l	100
23) tert-Butyl Alcohol	4.80	59	348735	543.34	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	2194715	103.83	ug/l	100
25) Chloroform	7.37	83	1524291	92.58	ug/l	100
26) Cyclohexane	7.65	56	1310640	103.31	ug/l	# 99
29) 1,1-Dichloropropene	7.79	75	1177833	95.21	ug/l	100
30) 2-Butanone	6.84	43	1893242	518.35	ug/l	98
31) 2,2-Dichloropropane	6.83	77	1245120	92.21	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	1327455	92.89	ug/l	99
33) Carbon Tetrachloride	7.78	117	1188833	94.16	ug/l	100
34) Benzene	8.04	78	3499171	94.60	ug/l	# 91
35) Methacrylonitrile	7.18	41	431447	108.27	ug/l	97
36) 1,2-Dichloroethane	8.13	62	1112657	91.75	ug/l	99
37) Trichloroethene	8.84	130	908427	94.41	ug/l	99
38) Methylcyclohexane	9.08	83	1290920	104.08	ug/l	98
39) 1,2-Dichloropropane	9.12	63	916447	94.28	ug/l	100
40) Dibromomethane	9.21	93	564924	95.59	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050039.D
 Acq On : 25 Jul 2018 9:46
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:55 PM

Quant Time: Jul 26 15:13:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 12:20:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	1192439	95.30	ug/l	99
42) Vinyl Acetate	5.90	43	9209868	532.85	ug/l	100
43) Ethyl Acetate	6.93	43	802103	101.80	ug/l	93
44) Isopropyl Acetate	8.17	43	1446713	100.34	ug/l	100
45) 1,4-Dioxane	9.20	88	200695	2128.91	ug/l	98
46) Methyl methacrylate	9.20	41	742412	108.19	ug/l	99
47) n-amyl Acetate	12.07	43	1270744	123.73	ug/l	99
48) t-1,3-Dichloropropene	7.79	75	1177833	95.03	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	1414690	102.30	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	809113	95.32	ug/l	98
51) Ethyl methacrylate	10.43	69	1113260	117.72	ug/l	99
52) 1,3-Dichloropropane	10.71	76	1364545	97.87	ug/l	99
53) Dibromochloromethane	10.90	129	943319	99.40	ug/l	99
54) 1,2-Dibromoethane	11.01	107	829001	101.39	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	2544548	568.47	ug/l	100
56) Bromoform	12.13	173	686457	105.49	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	4147826	508.60	ug/l	99
59) 2-Hexanone	10.75	43	2891076	531.70	ug/l	99
61) Tetrachloroethene	10.63	164	857994	86.22	ug/l	96
62) Toluene	10.16	91	3804838	93.28	ug/l	100
64) Chlorobenzene	11.44	112	2347132	96.80	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	898852	93.78	ug/l	99
66) Ethyl Benzene	11.51	91	4184044	103.58	ug/l	99
67) m/p-Xylenes	11.62	106	3177671	198.01	ug/l	100
68) o-Xylene	11.95	106	1532058	103.94	ug/l	100
69) Styrene	11.97	104	2511446	104.08	ug/l	100
70) Isopropylbenzene	12.25	105	4086281	102.22	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	1058871	98.58	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	937056m	108.55	ug/l	
73) Bromobenzene	12.53	156	1048914	100.04	ug/l	98
74) n-propylbenzene	12.59	91	4741985	100.84	ug/l	100
75) 2-Chlorotoluene	12.68	91	2773089	98.56	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	3327959	98.89	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	329578	118.12	ug/l	97
78) 4-Chlorotoluene	12.78	91	2806087	100.81	ug/l	100
79) tert-butylbenzene	12.99	119	2858520	102.42	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	3384825	99.21	ug/l	100
81) sec-Butylbenzene	13.17	105	3852568	99.76	ug/l	100
82) p-Isopropyltoluene	13.29	119	3396574	103.33	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	1851717	100.74	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	1786660	102.80	ug/l	99
85) n-Butylbenzene	13.62	91	2858753	111.71	ug/l	99
86) Hexachloroethane	13.88	117	628077	96.93	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	1795740	97.61	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	170542	102.78	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	999920	125.13	ug/l	99
90) Hexachlorobutadiene	15.01	225	535620	89.56	ug/l	98
91) Naphthalene	15.14	128	2387775	151.91	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	978670	116.48	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
Data File : VN050039.D
Acq On : 25 Jul 2018 9:46
Operator : MD\SY
Sample : VSTDICC100
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:55 PM

Quant Time: Jul 26 15:13:52 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 12:20:10 2018
Response via : Initial Calibration

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

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

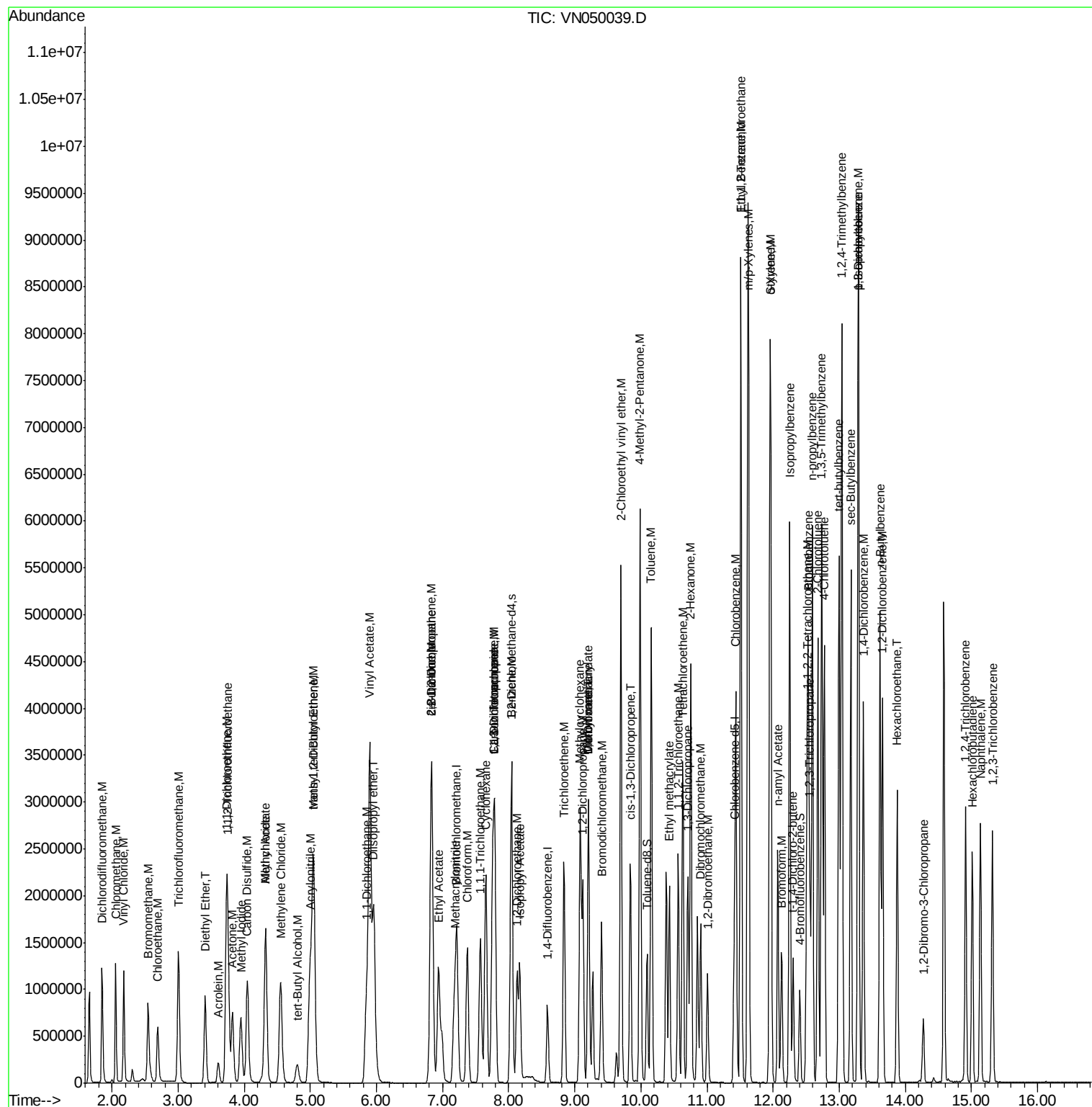
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN072518\
Data File : VN050039.D
Acq On : 25 Jul 2018 9:46
Operator : MD\SY
Sample : VSTDICC100
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

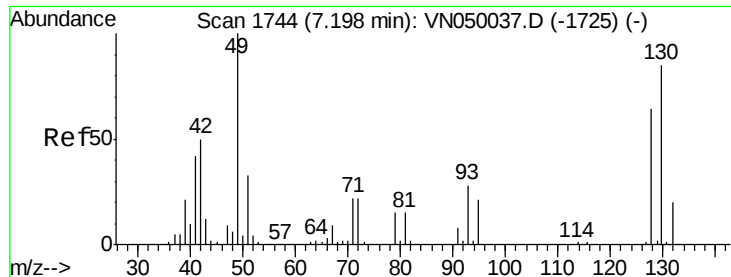
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:55 PM

Quant Time: Jul 26 15:13:52 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 12:20:10 2018
Response via : Initial Calibration





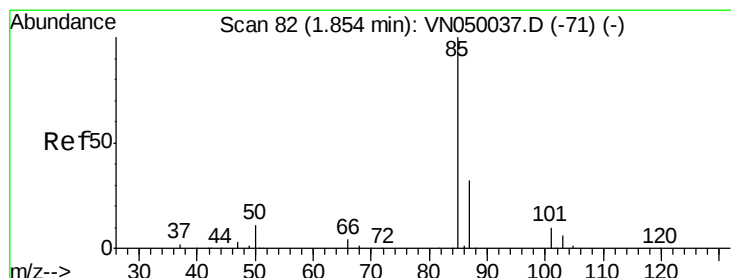
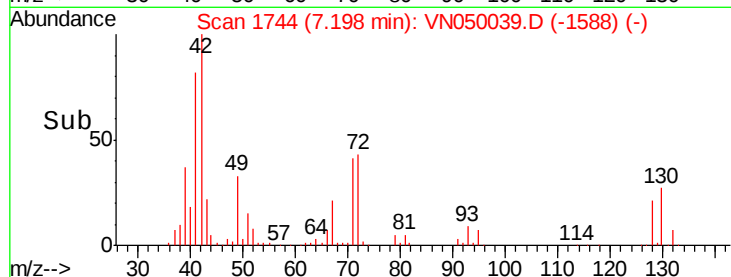
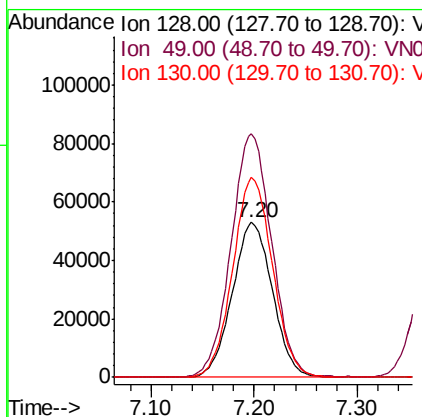
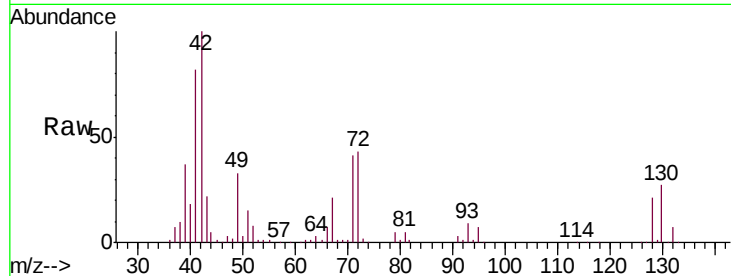
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.20 min Scan# 1744
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
128	100		
49	159.0	0.0	378.3
130	128.3	0.0	320.7

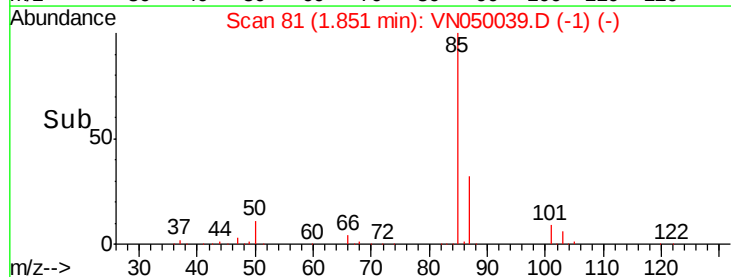
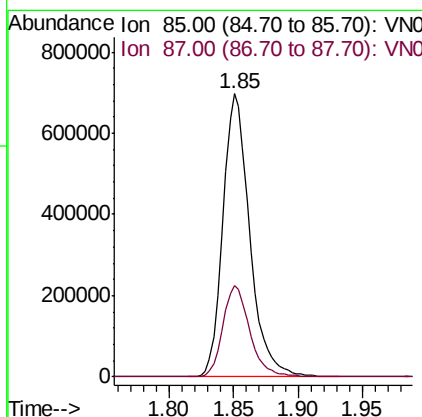
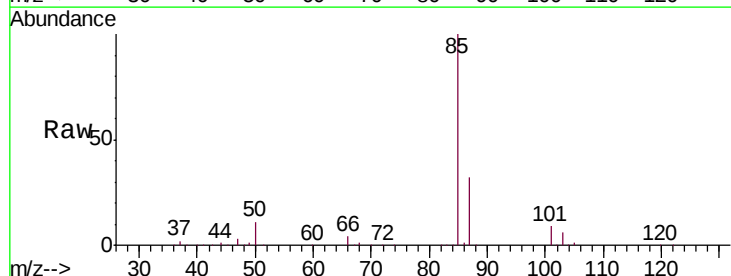
Manual Integrations
APPROVED

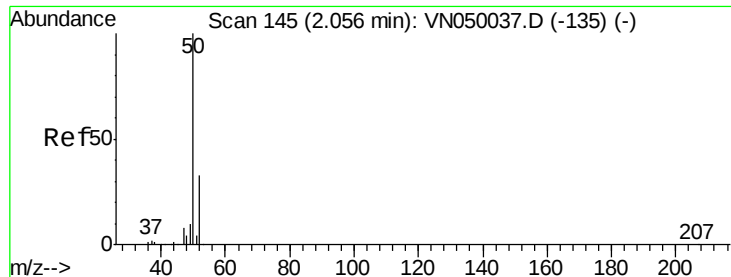
MMDadoda
7/26/2018 3:53:55 PM



#2
Dichlorodifluoromethane
Concen: 90.23 ug/l
RT: 1.85 min Scan# 81
Delta R.T. -0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.4	46.4





#3

Chloromethane

Concen: 93.86 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 1001838

Ion Ratio Lower Upper

50 100

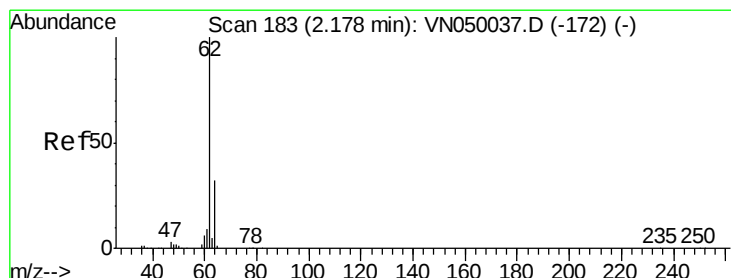
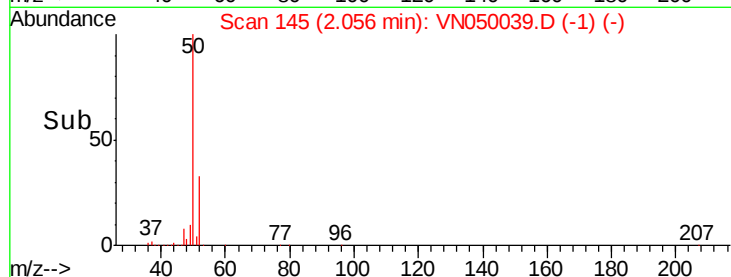
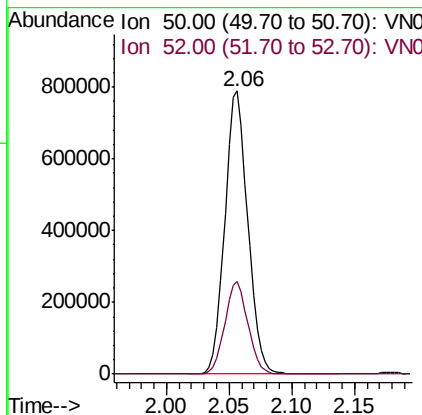
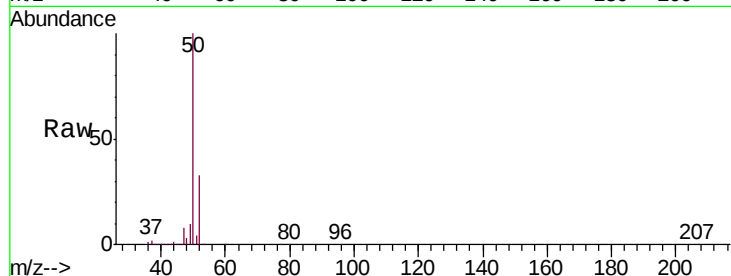
52 32.6 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#4

Vinyl Chloride

Concen: 92.78 ug/l

RT: 2.18 min Scan# 183

Delta R.T. 0.00 min

Lab File: VN050039.D

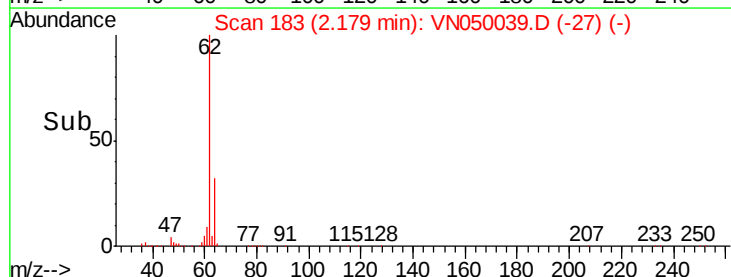
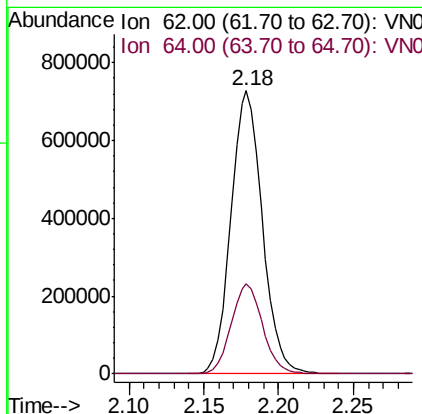
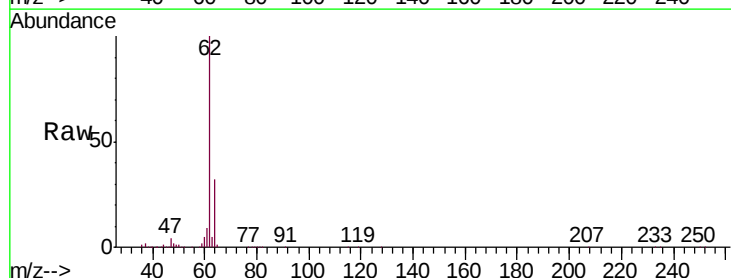
Acq: 25 Jul 2018 9:46

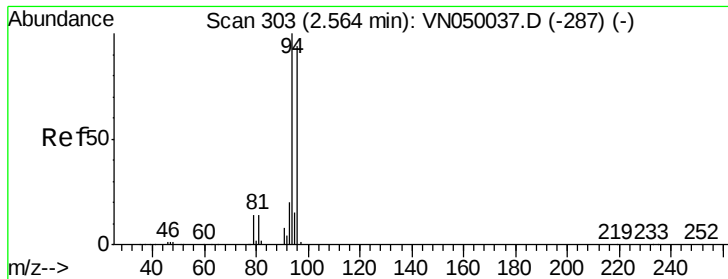
Tgt Ion: 62 Resp: 1063702

Ion Ratio Lower Upper

62 100

64 32.0 24.4 36.6





#5

Bromomethane

Concen: 92.74 ug/l

RT: 2.55 min Scan# 297

Delta R.T. -0.02 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 637453

Ion Ratio Lower Upper

94 100

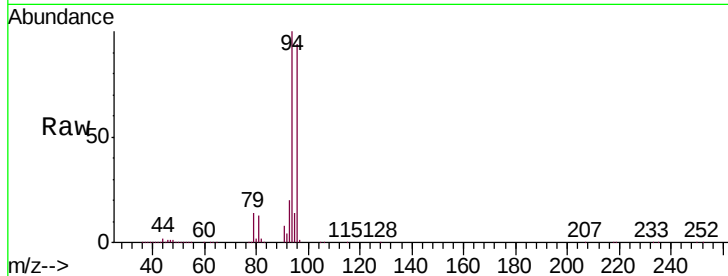
96 93.7 75.9 113.9

Manual Integrations

APPROVED

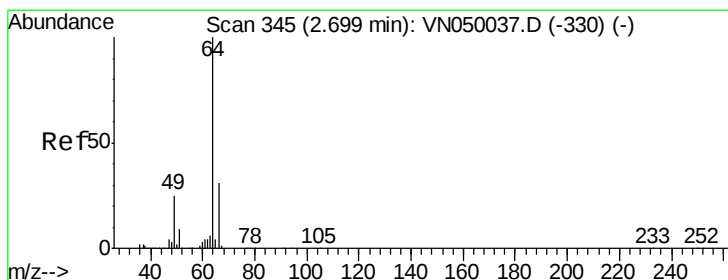
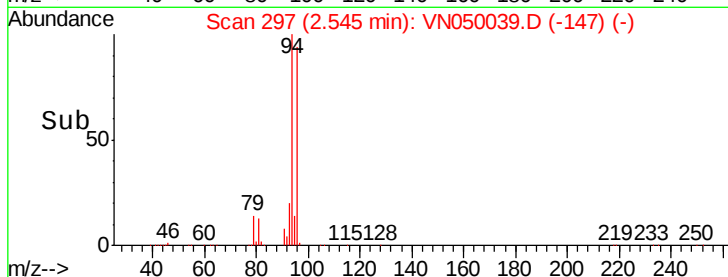
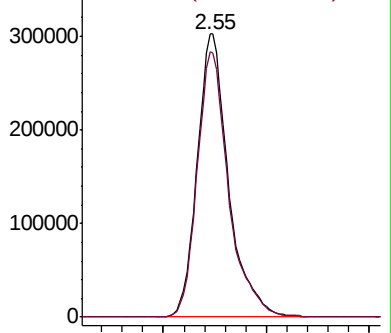
MMDadoda

7/26/2018 3:53:55 PM



Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO



#6

Chloroethane

Concen: 90.90 ug/l

RT: 2.69 min Scan# 342

Delta R.T. -0.01 min

Lab File: VN050039.D

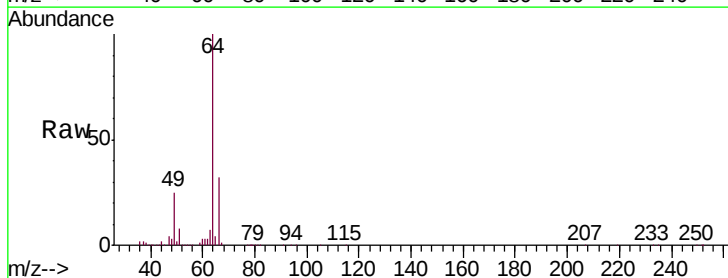
Acq: 25 Jul 2018 9:46

Tgt Ion: 64 Resp: 611584

Ion Ratio Lower Upper

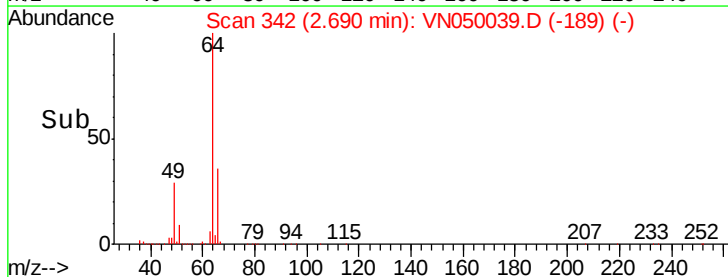
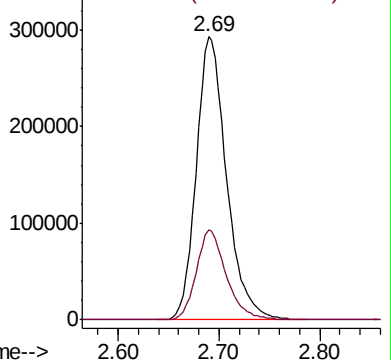
64 100

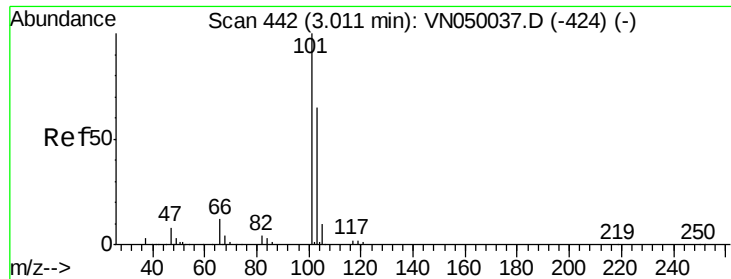
66 31.8 25.0 37.4



Abundance Ion 64.00 (63.70 to 64.70): VNO

Ion 66.00 (65.70 to 66.70): VNO





#7

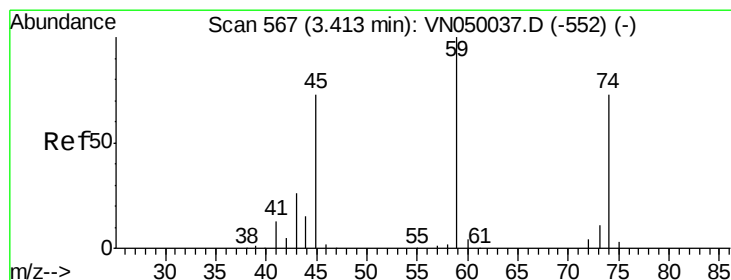
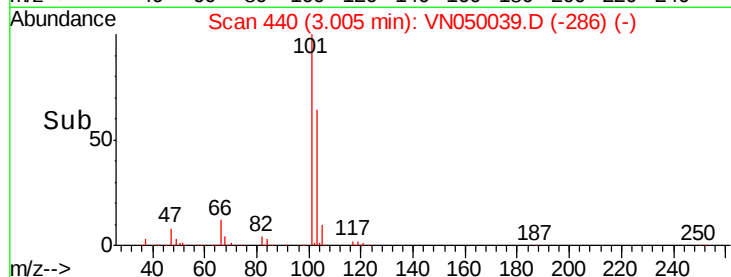
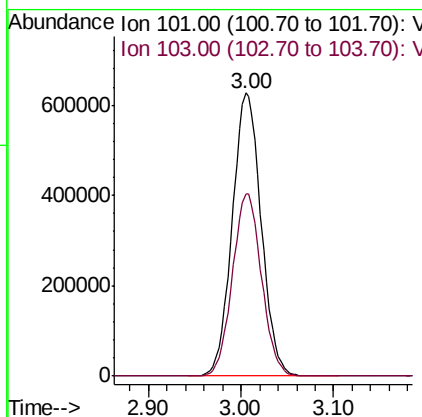
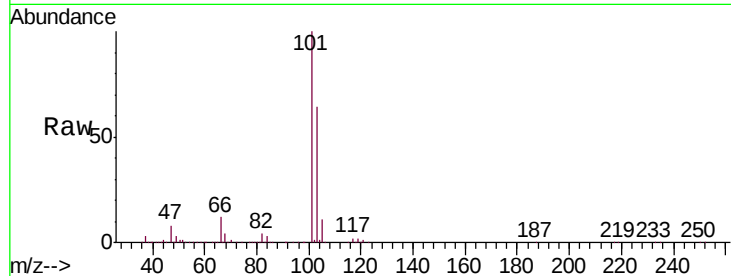
Trichlorofluoromethane
 Concen: 88.94 ug/l
 RT: 3.00 min Scan# 440
 Delta R.T. -0.01 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:101 Resp: 1354601
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.5 77.3

Manual Integrations
 APPROVED

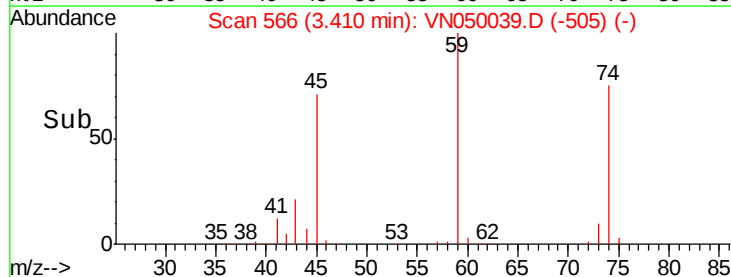
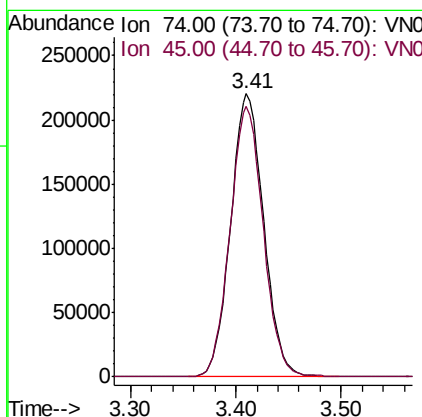
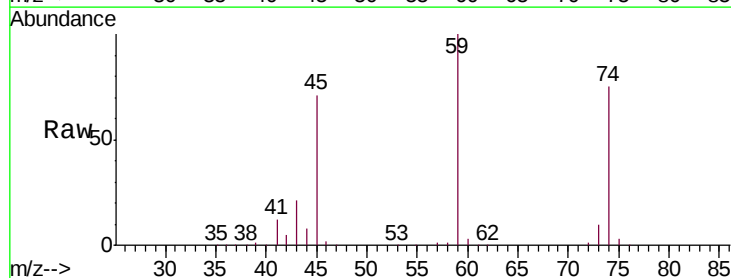
MMDadoda
 7/26/2018 3:53:55 PM

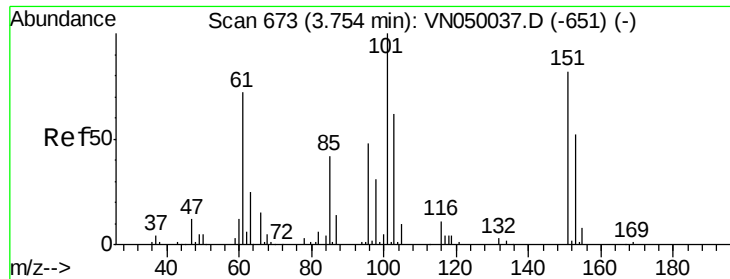


#8

Diethyl Ether
 Concen: 102.11 ug/l
 RT: 3.41 min Scan# 566
 Delta R.T. -0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion: 74 Resp: 478488
 Ion Ratio Lower Upper
 74 100
 45 95.8 18.7 167.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 87.70 ug/l

RT: 3.75 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

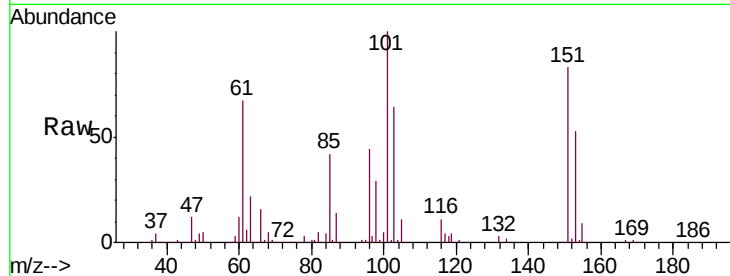
ClientSampleId :

VSTDIC100

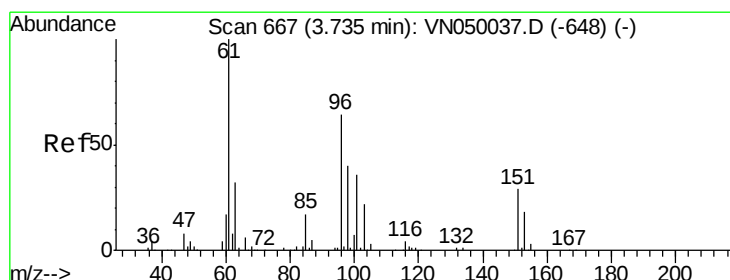
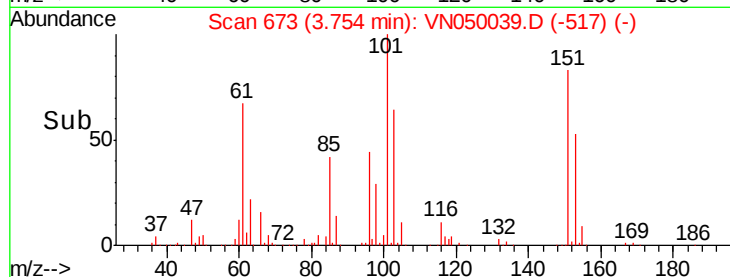
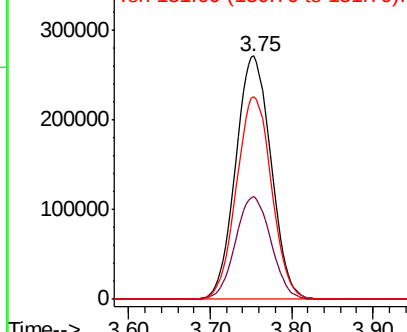
Tot Ion:	101	Resp:	815154
Ion Ratio	Lower	Upper	
101	100		
85	42.3	0.0	83.0
151	82.7	0.0	166.8

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:55 PM



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): V
Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 93.94 ug/l

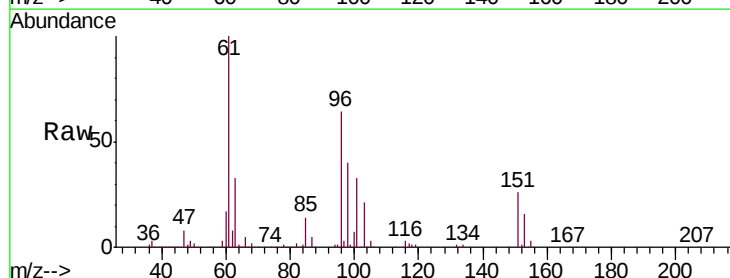
RT: 3.73 min Scan# 666

Delta R.T. -0.00 min

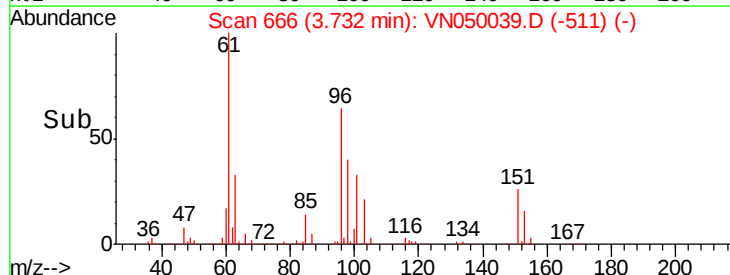
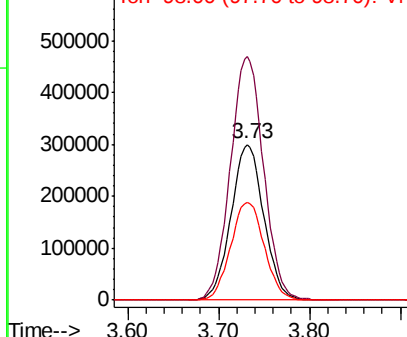
Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Tgt Ion:	96	Resp:	750655
Ion Ratio	Lower	Upper	
96	100		
61	156.4	130.6	195.8
98	63.0	53.5	80.3



Abundance Ion 96.00 (95.70 to 96.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 98.00 (97.70 to 98.70): V





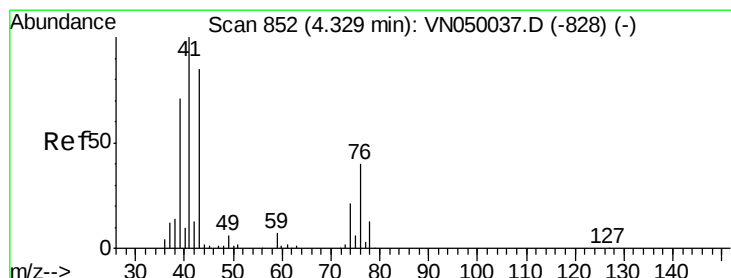
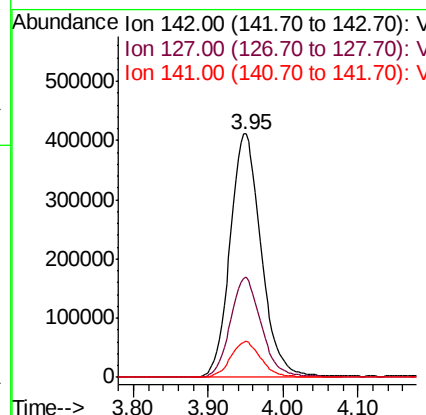
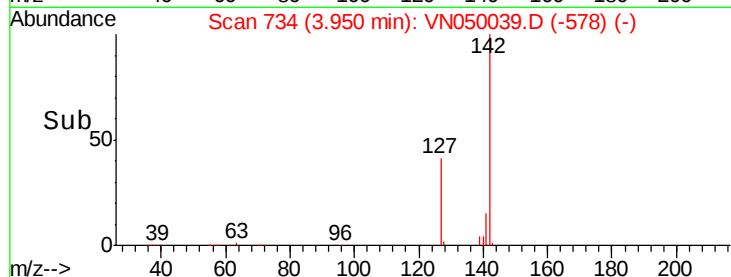
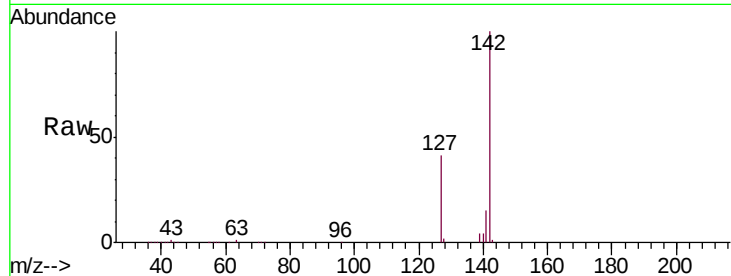
#11
Methvl Iodide
Concen: 104.33 ug/l
RT: 3.95 min Scan# 734
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
142	100		
127	41.0	20.2	60.5
141	14.7	6.9	20.6

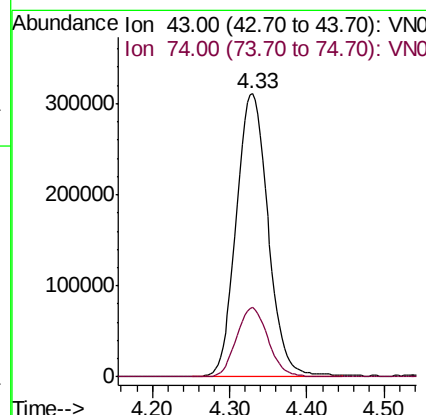
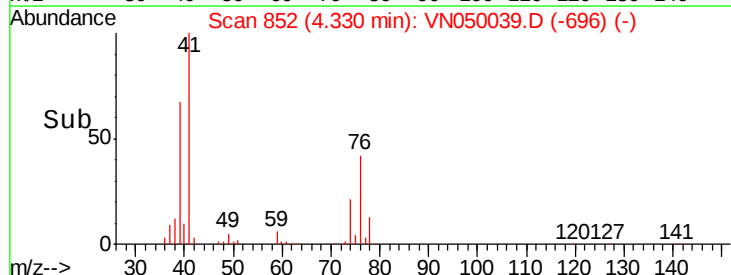
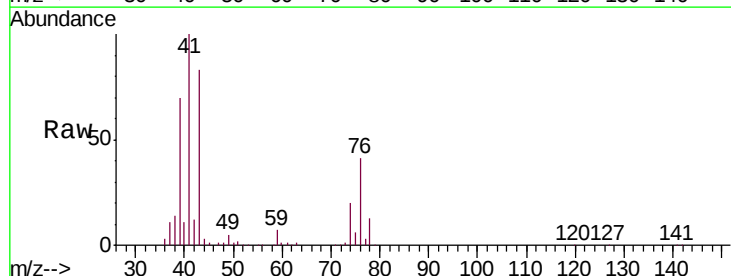
Manual Integrations
APPROVED

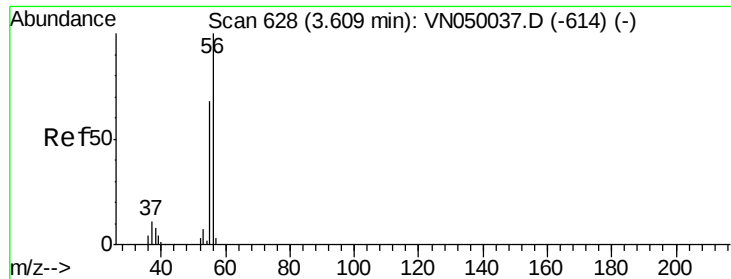
MMDadoda
7/26/2018 3:53:55 PM



#12
Methyl Acetate
Concen: 96.71 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.5	19.3	28.9





#13

Acrolein

Concen: 517.44 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 249905

Ion Ratio Lower Upper

56 100

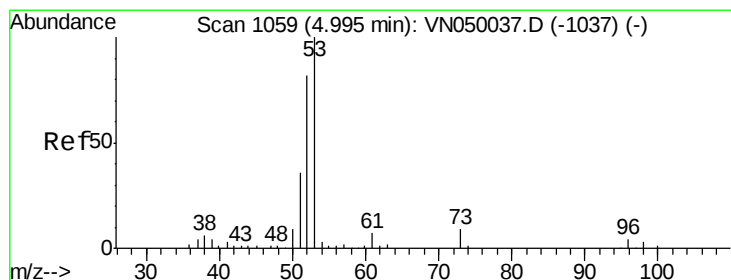
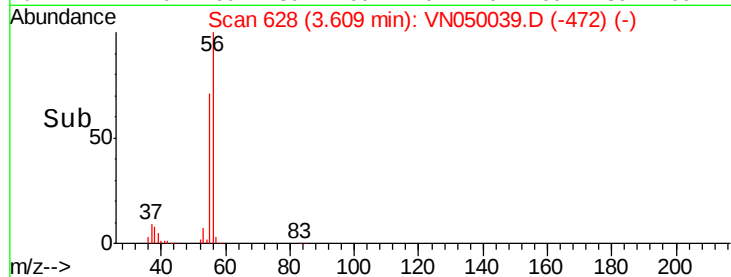
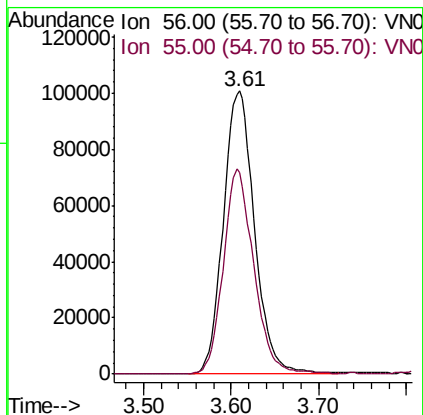
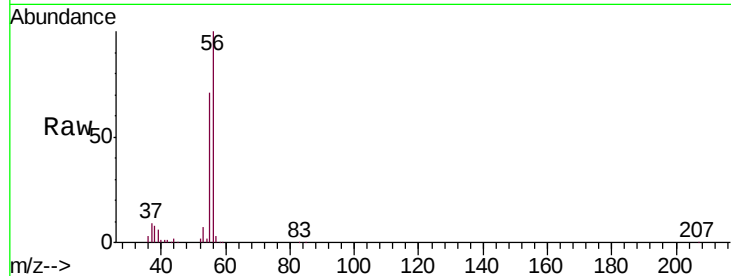
55 70.2 58.6 88.0

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#14

Acrylonitrile

Concen: 527.51 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

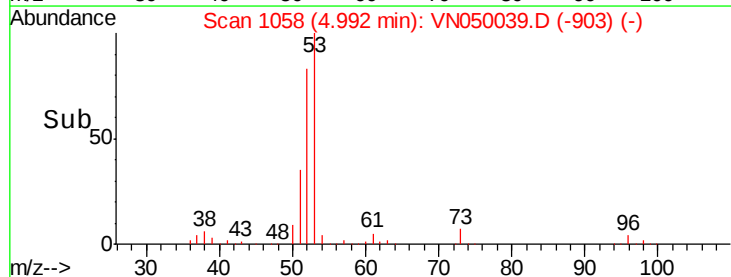
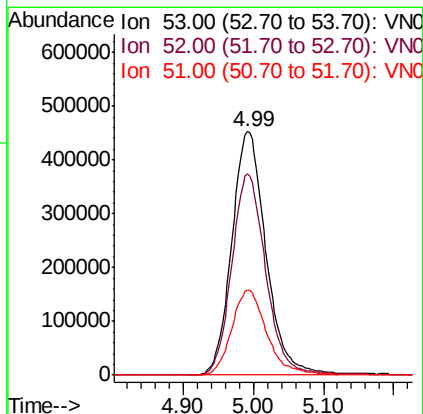
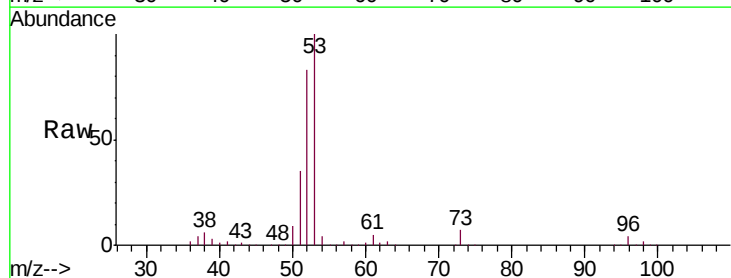
Tgt Ion: 53 Resp: 1532990

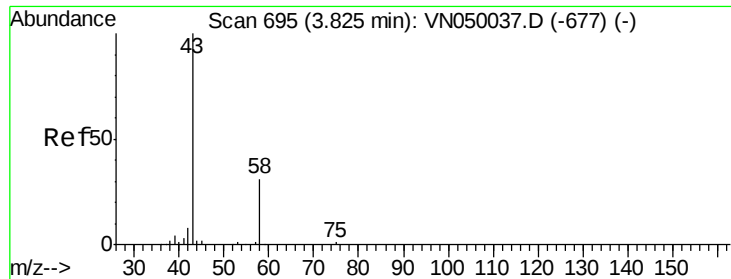
Ion Ratio Lower Upper

53 100

52 82.1 41.5 124.5

51 36.0 18.7 56.1





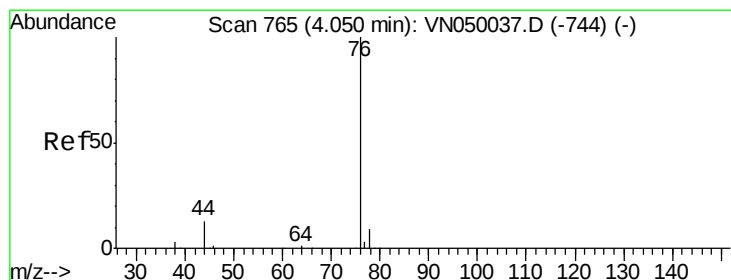
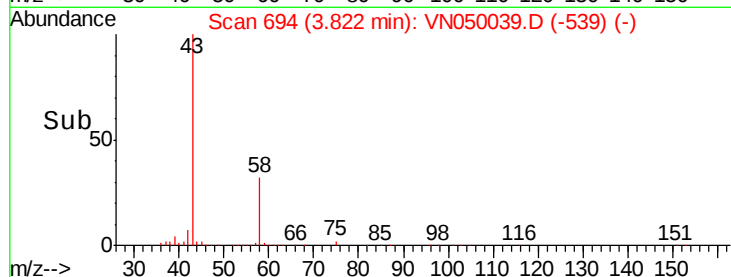
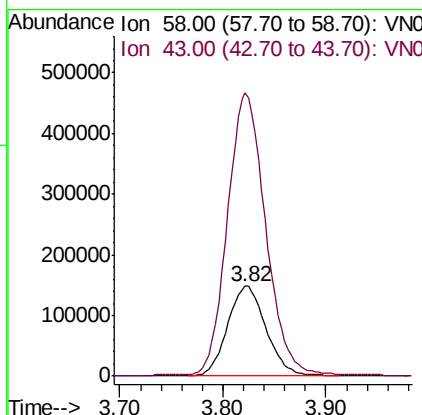
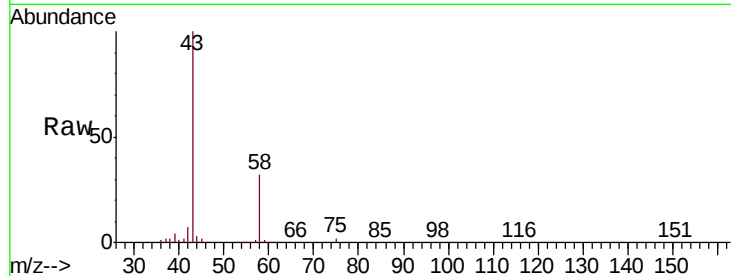
#15
Acetone
Concen: 467.25 ug/l
RT: 3.82 min Scan# 694
Delta R.T. -0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 58 Resp: 382943
Ion Ratio Lower Upper
58 100
43 314.0 252.0 378.0

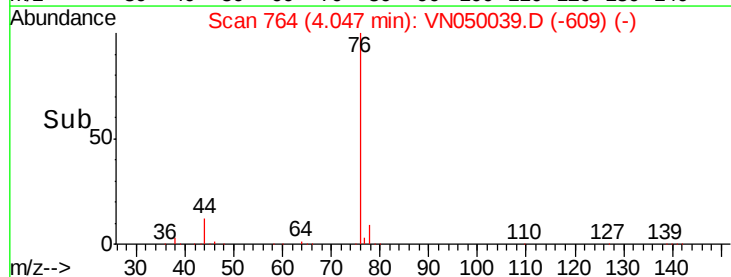
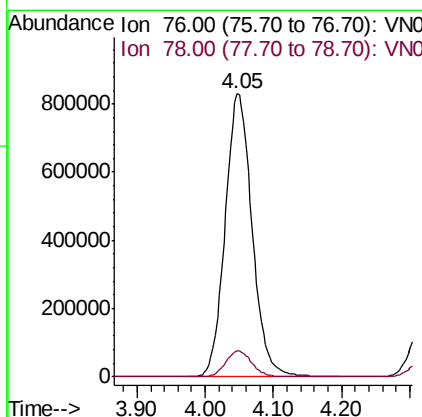
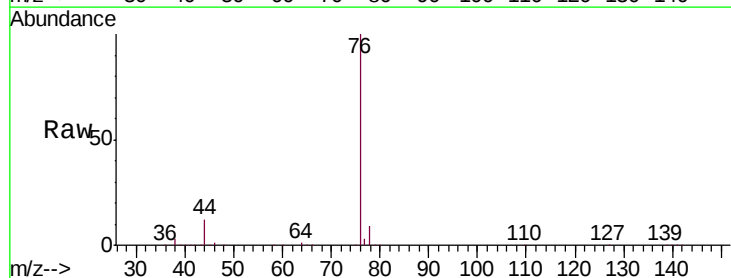
Manual Integrations
APPROVED

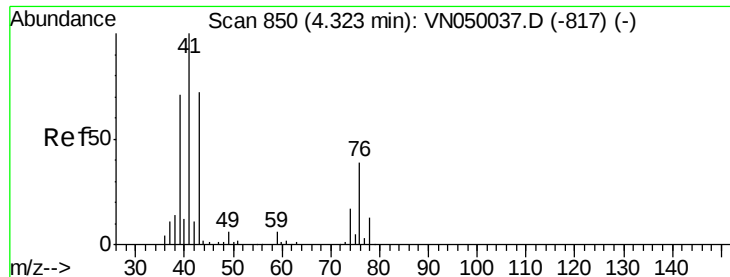
MMDadoda
7/26/2018 3:53:55 PM



#16
Carbon Disulfide
Concen: 94.00 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion: 76 Resp: 2277116
Ion Ratio Lower Upper
76 100
78 9.0 7.3 10.9





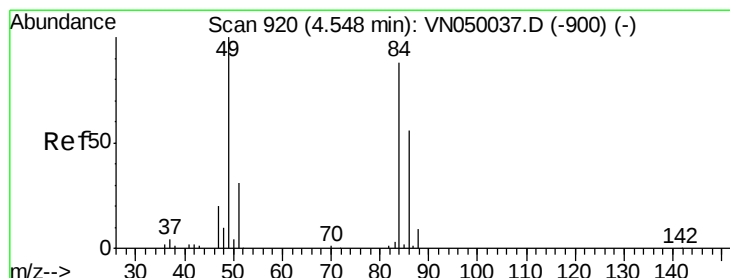
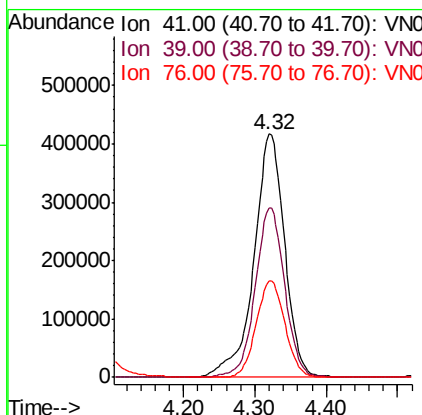
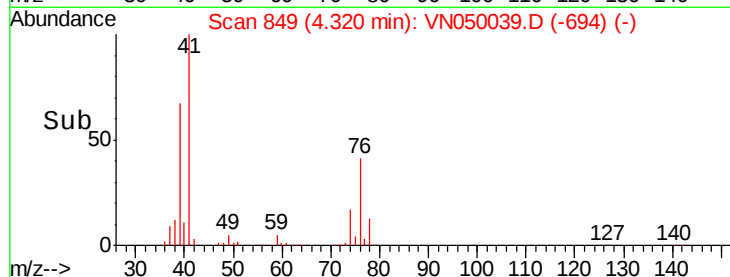
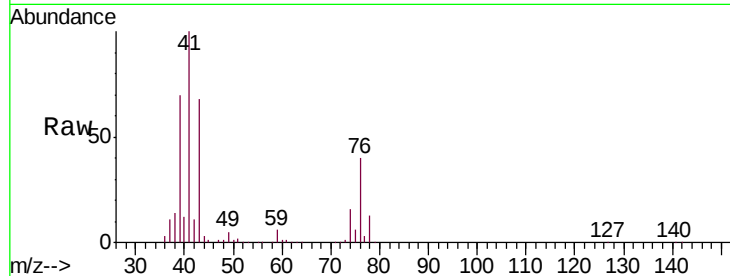
#17
Allvl chloride
Concen: 102.98 ug/l
RT: 4.32 min Scan# 849
Delta R.T. -0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 41 Resp: 1243860
Ion Ratio Lower Upper
41 100
39 69.6 35.4 106.3
76 39.5 19.7 59.1

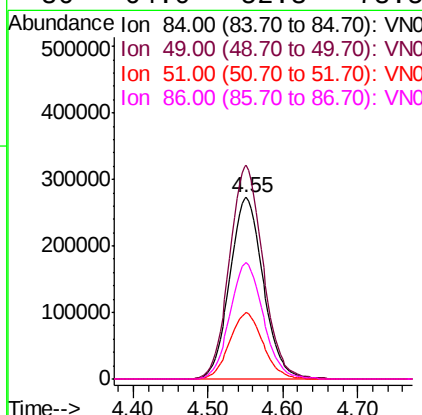
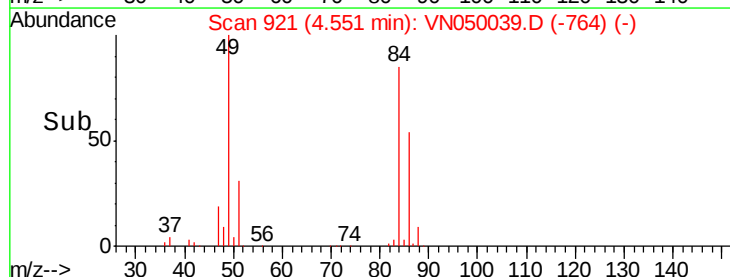
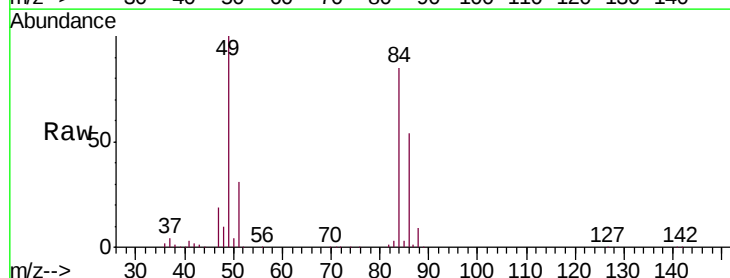
Manual Integrations
APPROVED

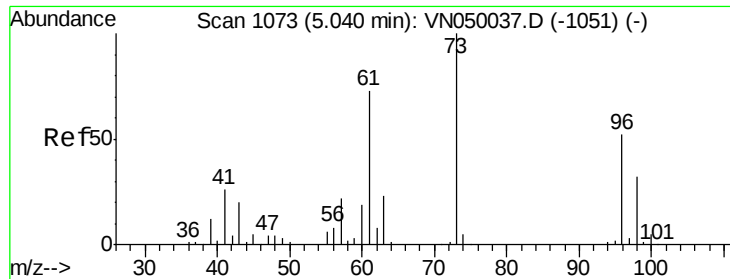
MMDadoda
7/26/2018 3:53:55 PM



#18
Methylene Chloride
Concen: 92.99 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion: 84 Resp: 850957
Ion Ratio Lower Upper
84 100
49 117.5 95.1 142.7
51 36.6 28.8 43.2
86 64.0 52.3 78.5





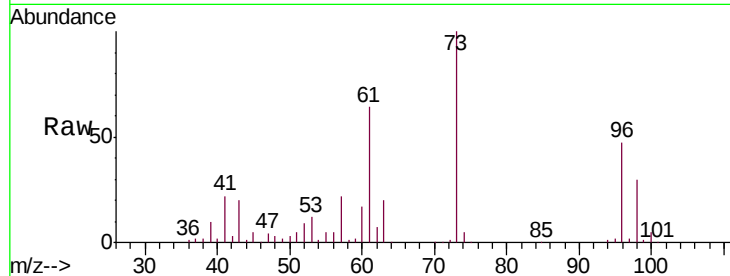
#19
trans-1,2-Dichloroethene
Concen: 95.37 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.8	112.1	168.1
98	63.1	51.3	76.9

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:55 PM

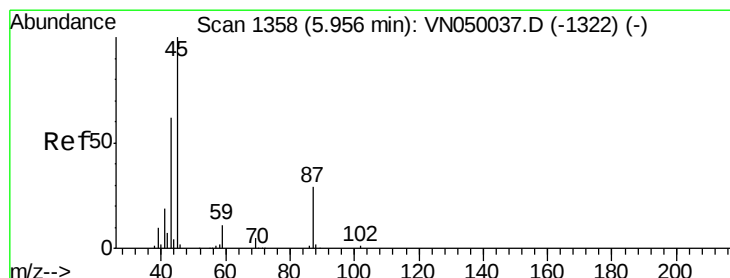
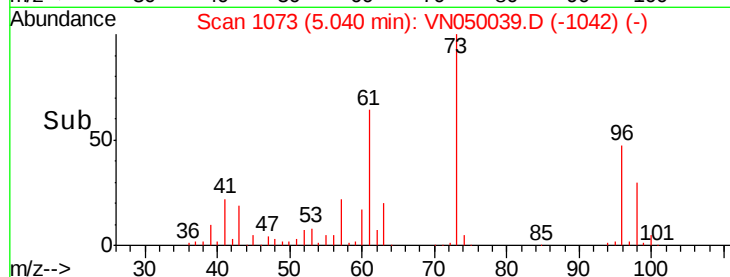
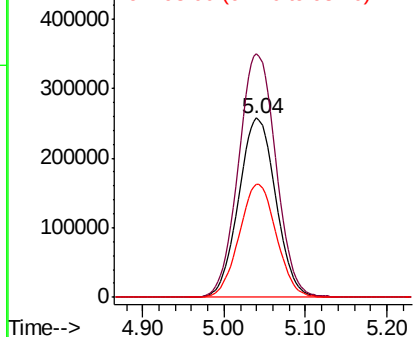


Abundance

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: 99.40 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.7	46.6	70.0
87	28.0	22.3	33.5
59	11.9	9.5	14.3

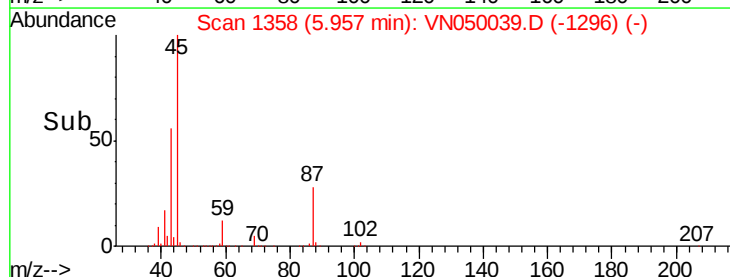
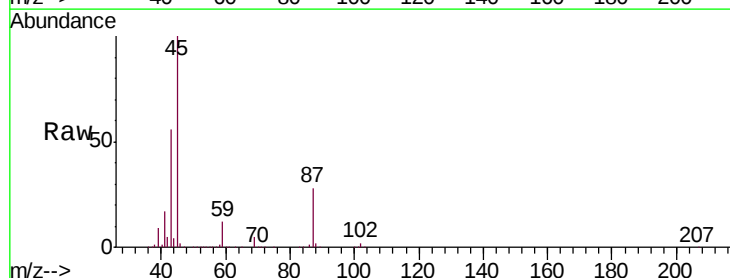
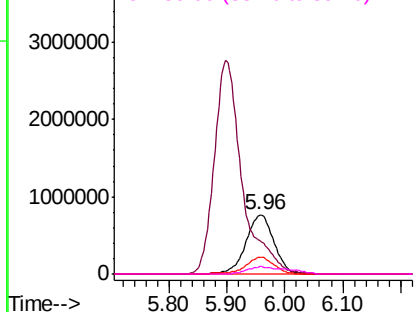
Abundance

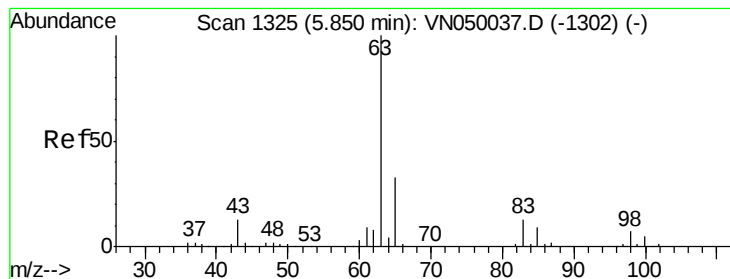
Ion 45.00 (44.70 to 45.70): VN0

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: 93.70 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 63 Resp: 1508261

Ion Ratio Lower Upper

63 100

98 6.6 3.5 10.6

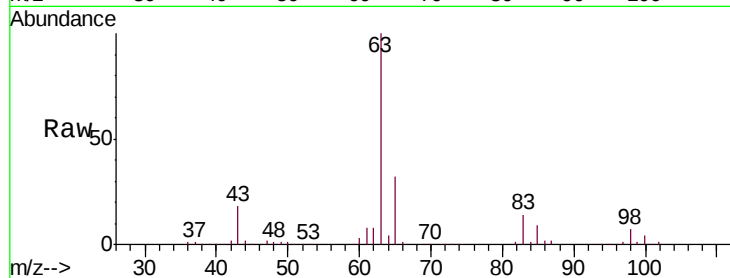
100 4.1 2.3 6.8

Manual Integrations

APPROVED

MMDadoda

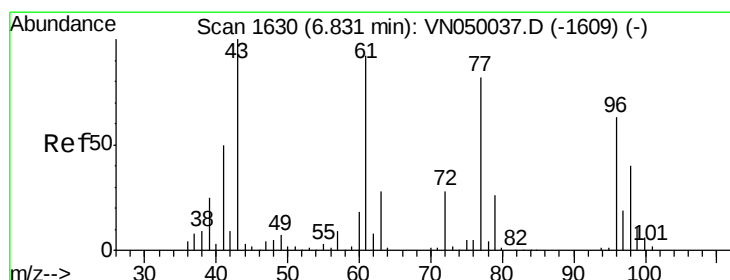
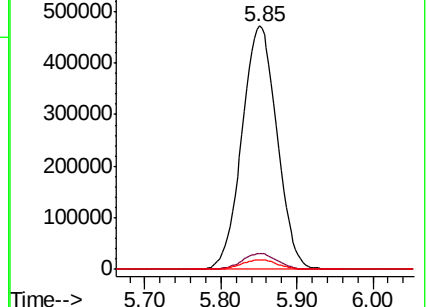
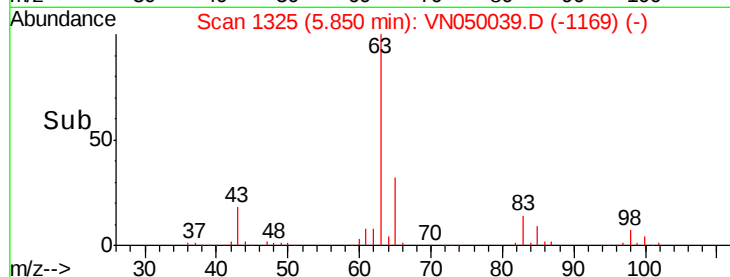
7/26/2018 3:53:55 PM



Abundance Ion 63.00 (62.70 to 63.70): VN050039.D (-1169) (-)

Ion 98.00 (97.70 to 98.70): VN050039.D (-1169) (-)

Ion 100.00 (99.70 to 100.70): VN050039.D (-1169) (-)



#22

cis-1,2-Dichloroethene

Concen: 99.64 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

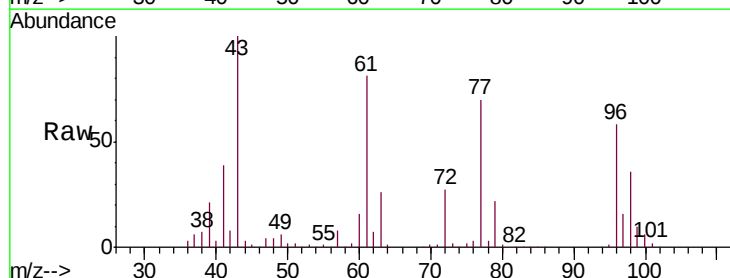
Tgt Ion: 96 Resp: 921561

Ion Ratio Lower Upper

96 100

61 142.6 114.2 171.2

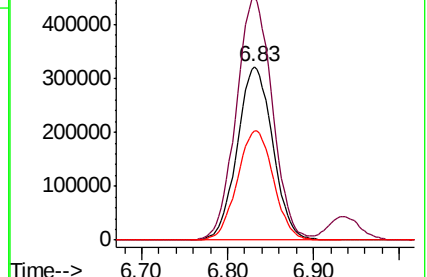
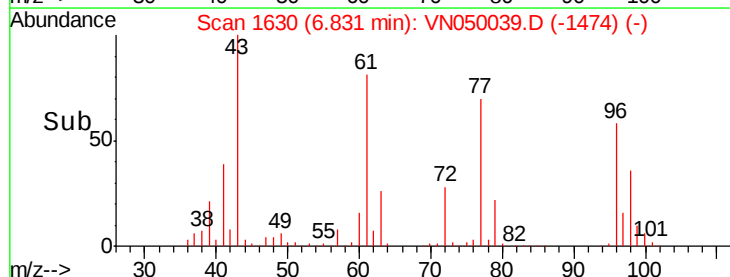
98 64.4 51.7 77.5

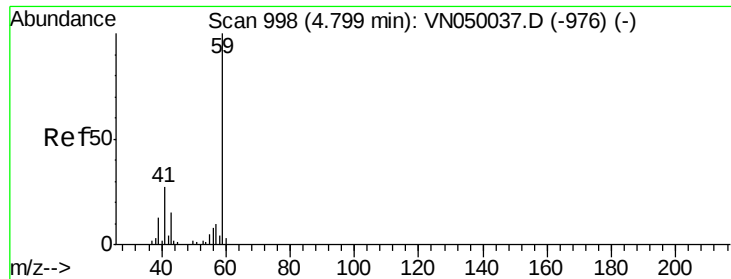


Abundance Ion 96.00 (95.70 to 96.70): VN050039.D (-1474) (-)

Ion 61.00 (60.70 to 61.70): VN050039.D (-1474) (-)

Ion 98.00 (97.70 to 98.70): VN050039.D (-1474) (-)





#23

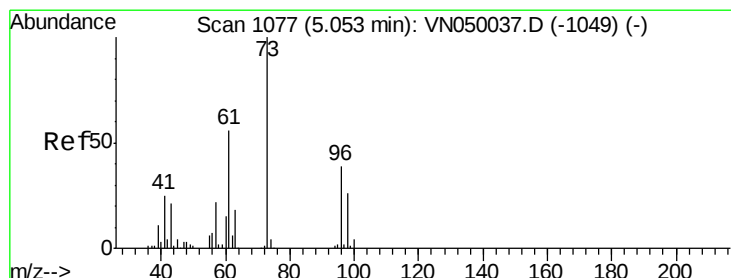
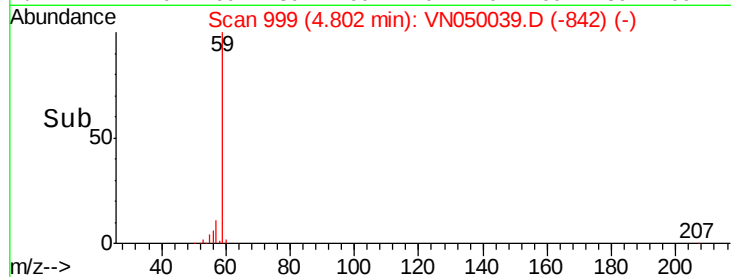
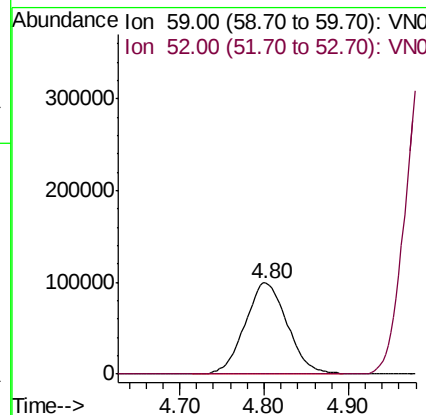
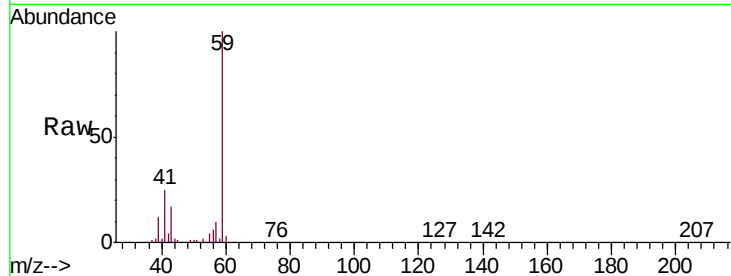
tert-Butyl Alcohol
 Concen: 543.34 ug/l
 RT: 4.80 min Scan# 999
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.1	0.1#

Manual Integrations
 APPROVED

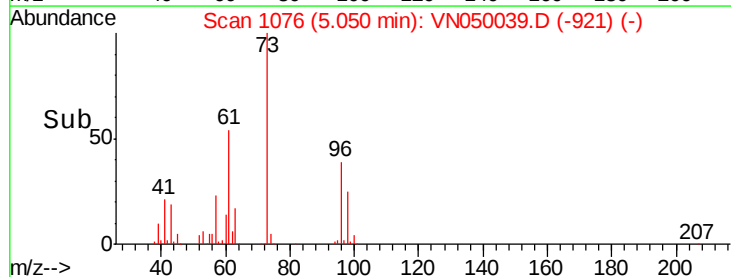
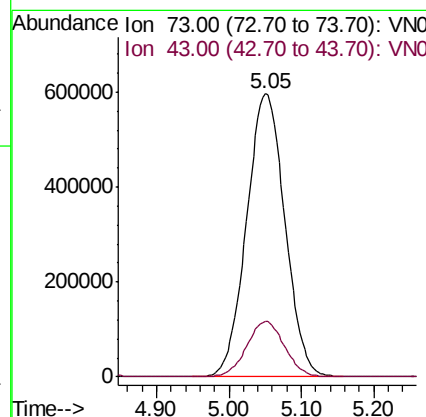
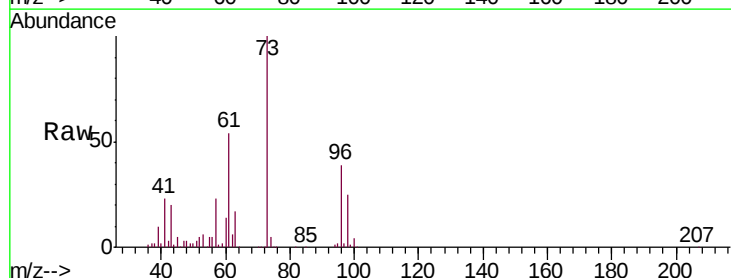
MMDadoda
 7/26/2018 3:53:55 PM

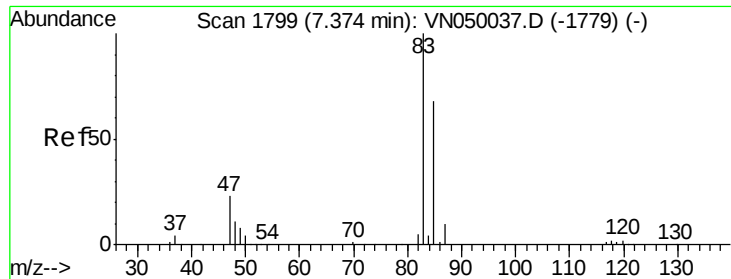


#24

Methyl tert-Butyl Ether
 Concen: 103.83 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.3	15.5	23.3





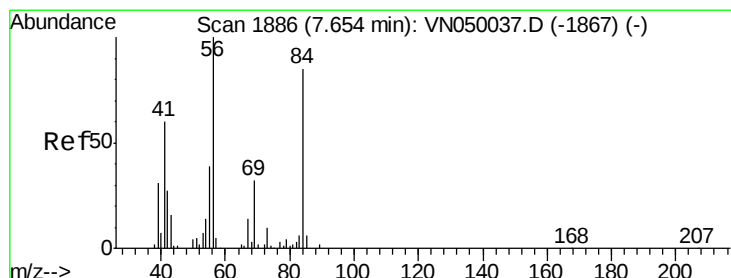
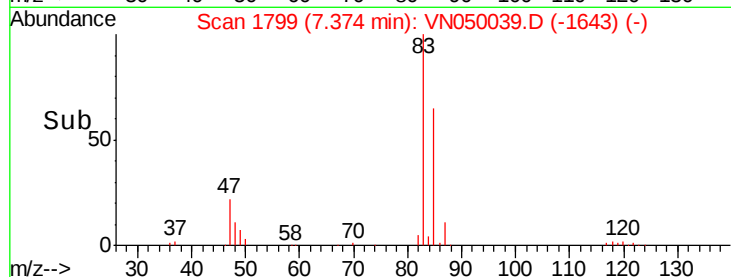
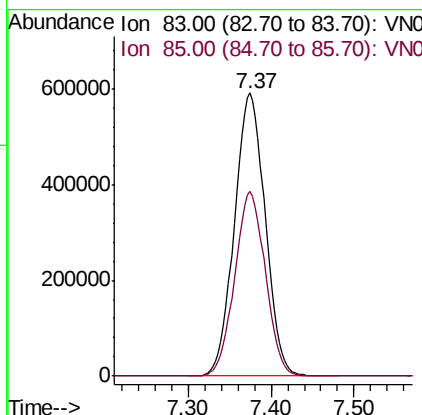
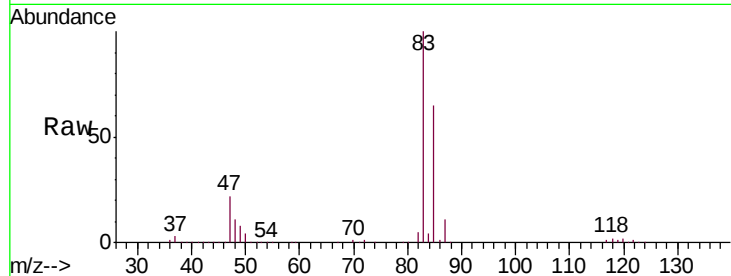
#25
Chloroform
Concen: 92.58 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 83 Resp: 1524291
Ion Ratio Lower Upper
83 100
85 65.3 52.1 78.1

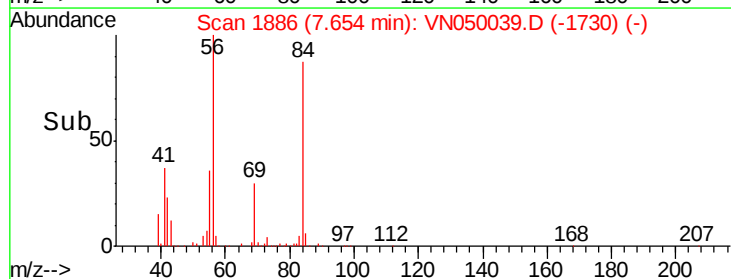
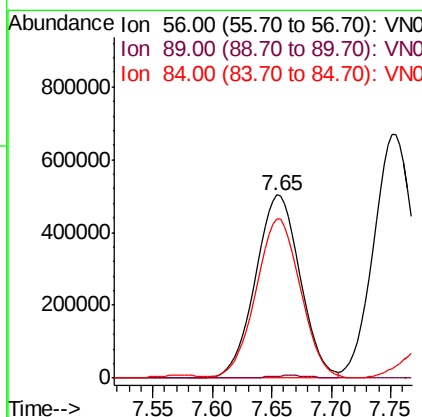
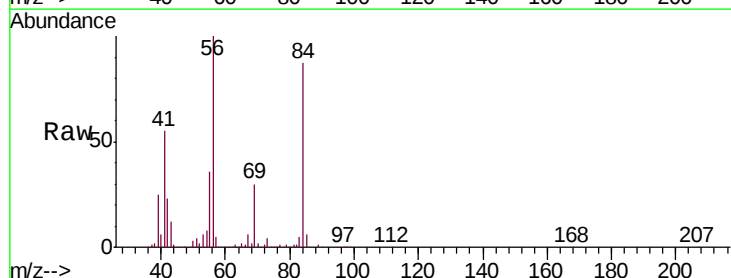
Manual Integrations
APPROVED

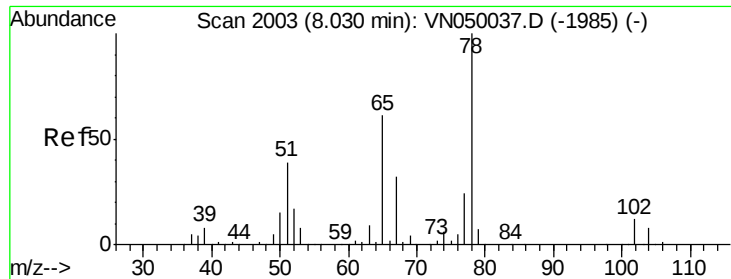
MMDadoda
7/26/2018 3:53:55 PM



#26
Cyclohexane
Concen: 103.31 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion: 56 Resp: 1310640
Ion Ratio Lower Upper
56 100
89 1.4 3.0 4.4#
84 87.0 69.8 104.8





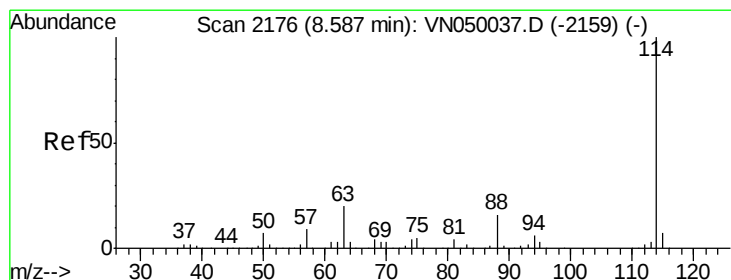
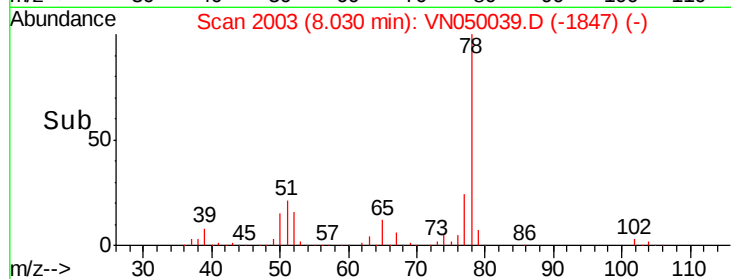
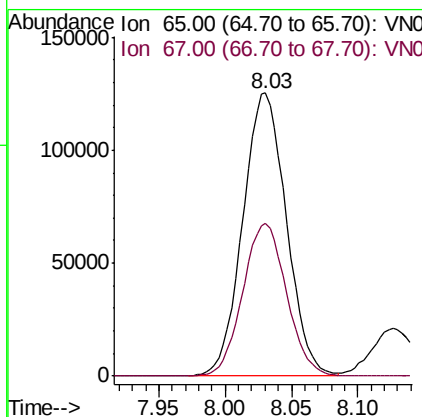
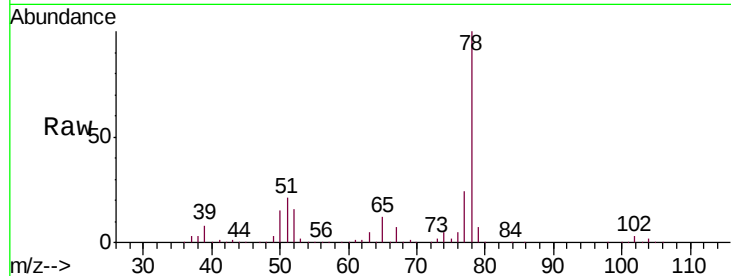
#27
 1,2-Dichloroethane-d4
 Concen: 28.89 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 65 Resp: 286406
 Ion Ratio Lower Upper
 65 100
 67 54.2 42.7 64.1

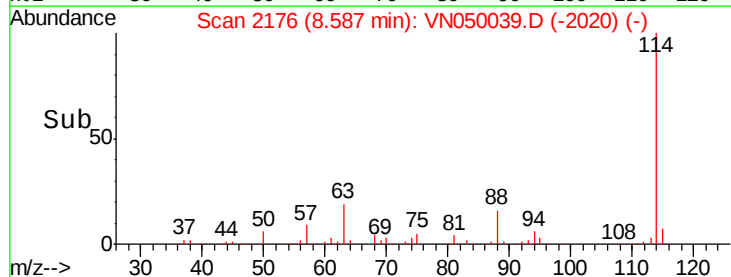
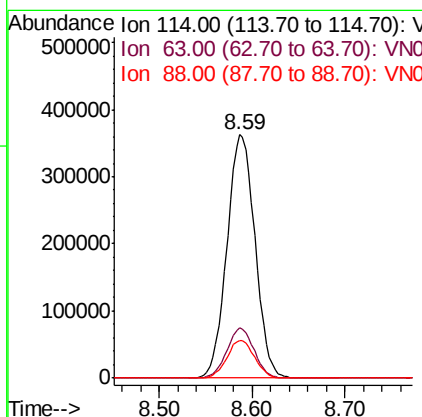
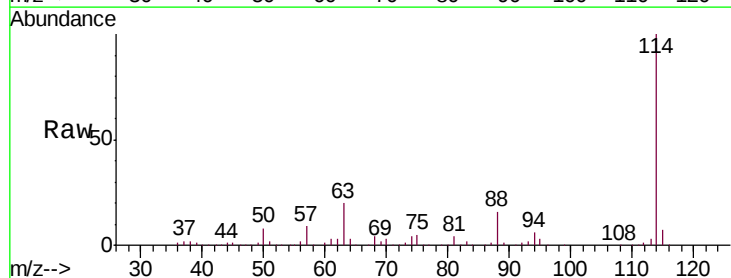
Manual Integrations
 APPROVED

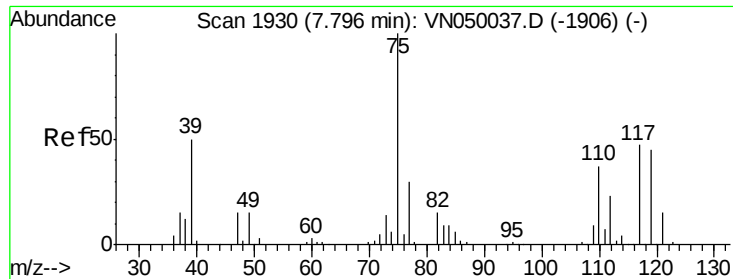
MMDadoda
 7/26/2018 3:53:55 PM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion: 114 Resp: 760108
 Ion Ratio Lower Upper
 114 100
 63 20.0 16.2 24.2
 88 15.3 12.3 18.5





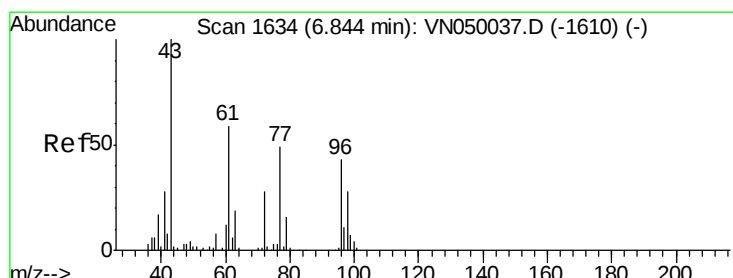
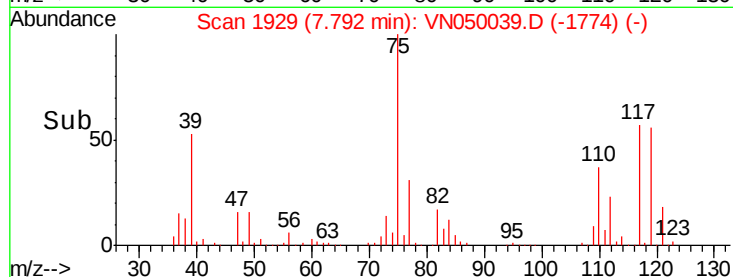
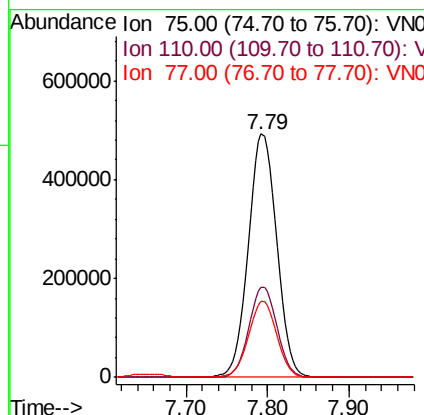
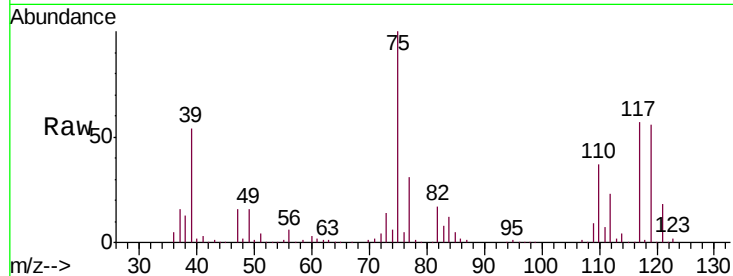
#29
 1,1-Dichloropropene
 Concen: 95.21 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 75 Resp: 1177833
 Ion Ratio Lower Upper
 75 100
 110 36.5 0.0 73.2
 77 30.9 0.0 62.0

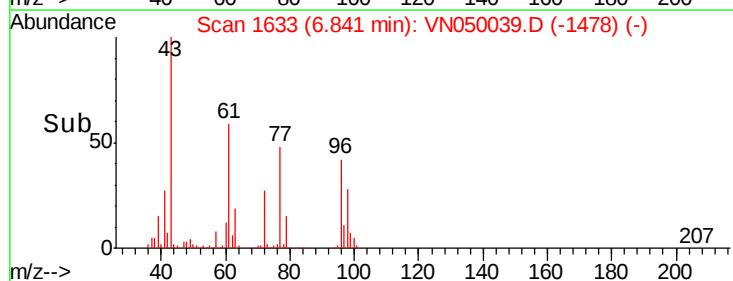
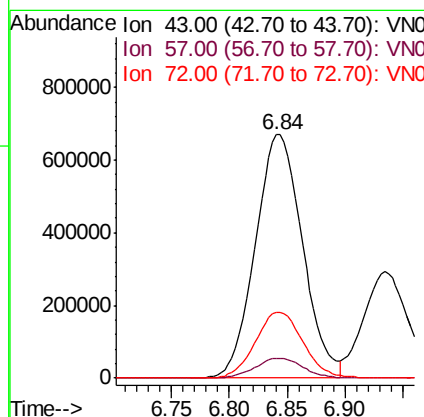
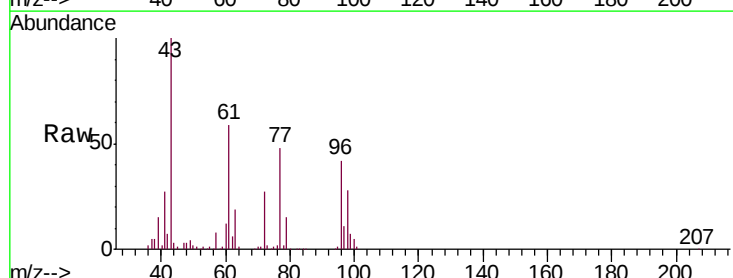
Manual Integrations
 APPROVED

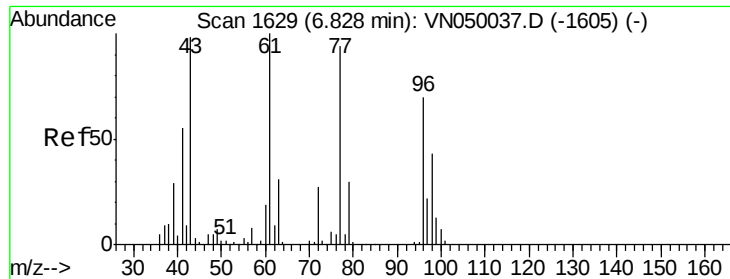
MMDadoda
 7/26/2018 3:53:55 PM



#30
 2-Butanone
 Concen: 518.35 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. -0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion: 43 Resp: 1893242
 Ion Ratio Lower Upper
 43 100
 57 8.3 6.8 10.2
 72 27.7 21.4 32.0





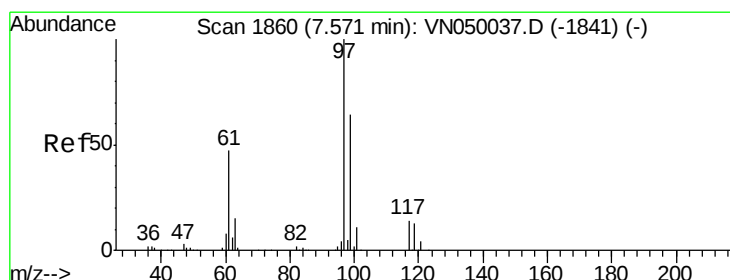
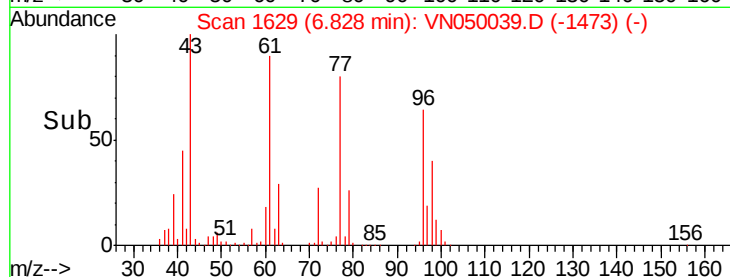
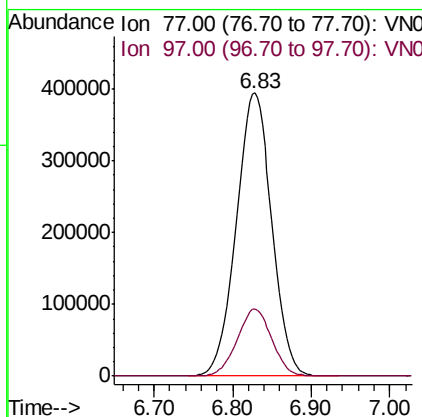
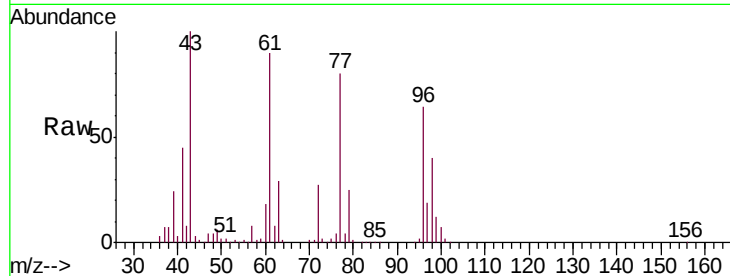
#31
 2,2-Dichloropropane
 Concen: 92.21 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 77 Resp: 1245120
 Ion Ratio Lower Upper
 77 100
 97 23.4 18.9 28.3

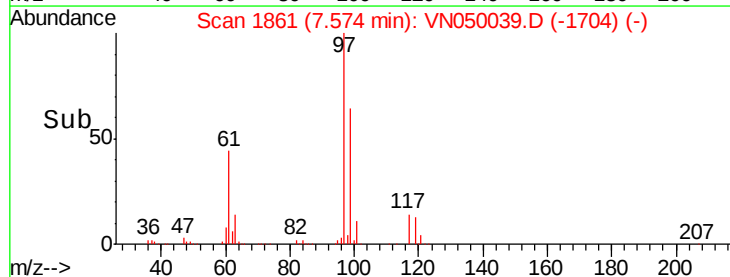
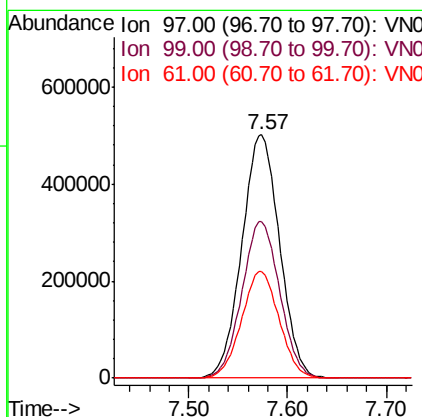
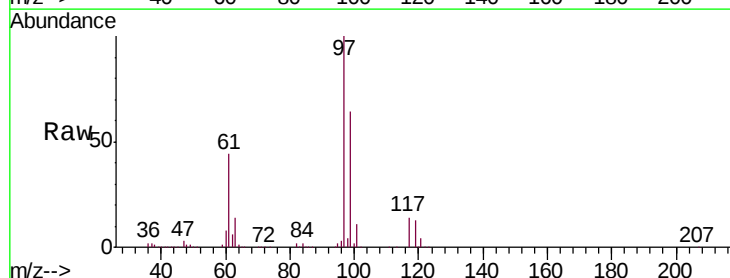
Manual Integrations
 APPROVED

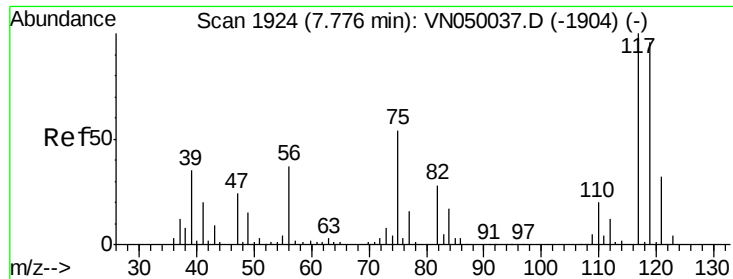
MMDadoda
 7/26/2018 3:53:55 PM



#32
 1,1,1-Trichloroethane
 Concen: 92.89 ug/l
 RT: 7.57 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion: 97 Resp: 1327455
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.2 76.8
 61 43.7 35.3 52.9





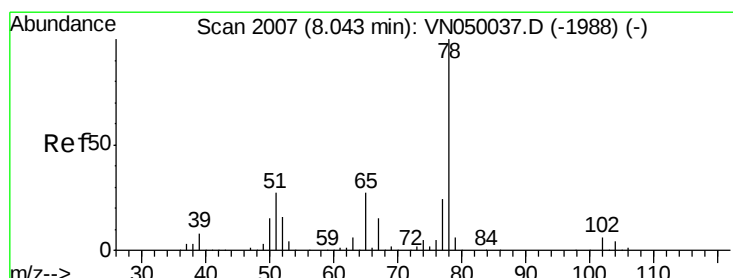
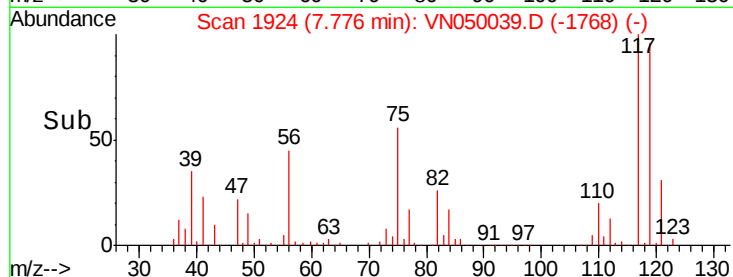
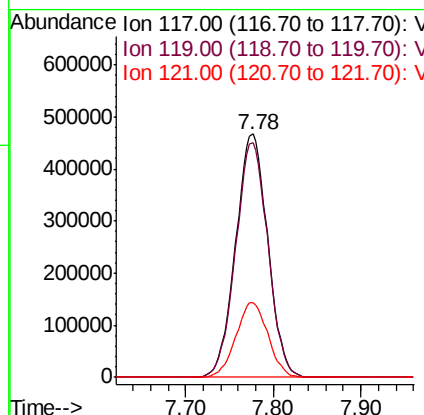
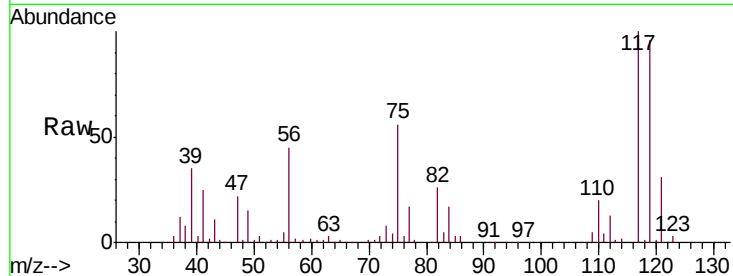
#33
Carbon Tetrachloride
Concen: 94.16 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:117 Resp: 1188833
Ion Ratio Lower Upper
117 100
119 96.2 76.9 115.3
121 30.7 24.4 36.6

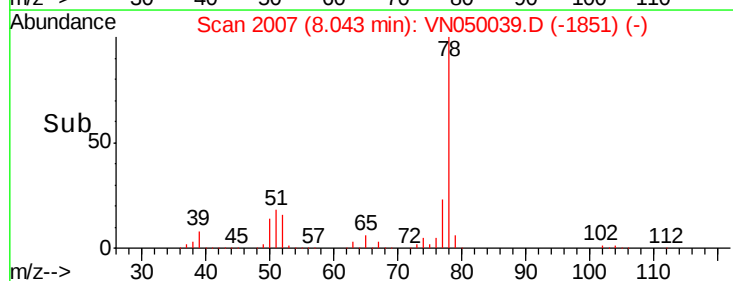
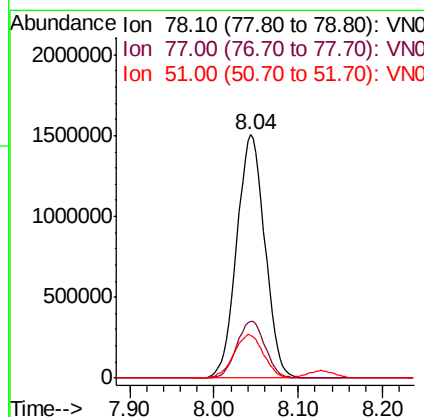
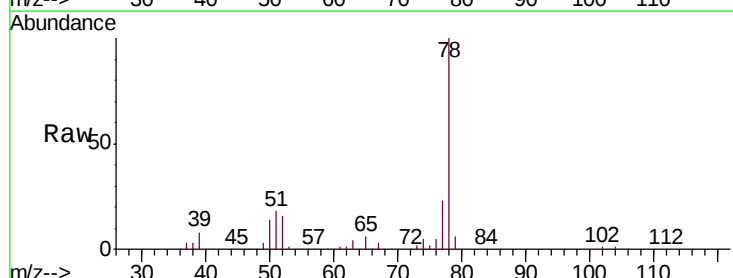
Manual Integrations
APPROVED

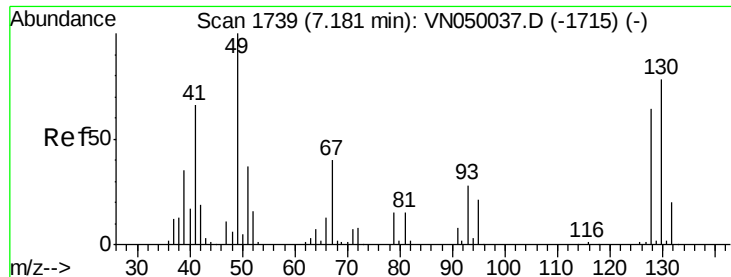
MMDadoda
7/26/2018 3:53:55 PM



#34
Benzene
Concen: 94.60 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion: 78 Resp: 3499171
Ion Ratio Lower Upper
78 100
77 23.4 19.1 28.7
51 17.7 21.0 31.4#





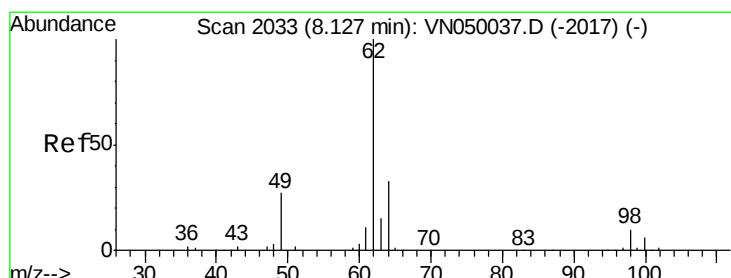
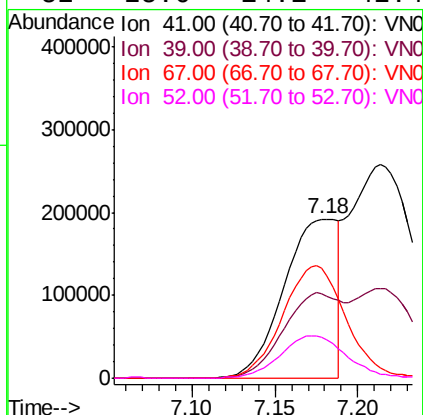
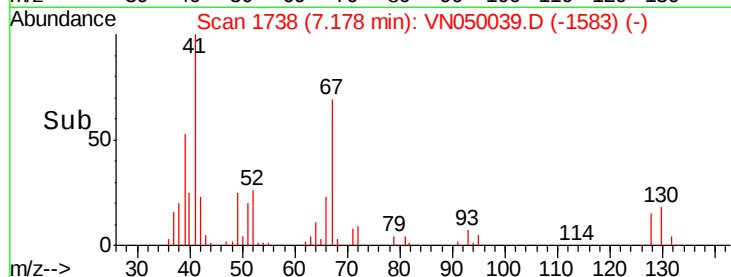
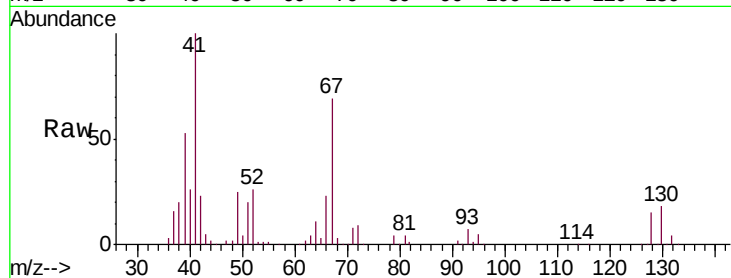
#35
Methacrylonitrile
Concen: 108.27 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.2	27.6	82.7
67	68.8	35.1	105.5
52	25.6	14.1	42.4

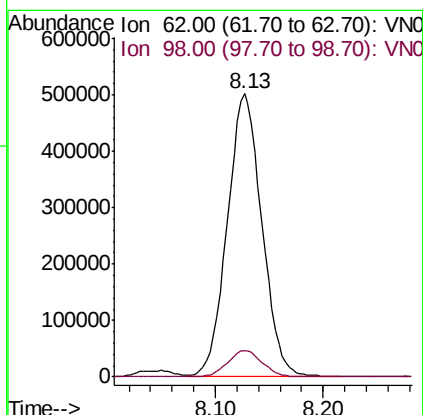
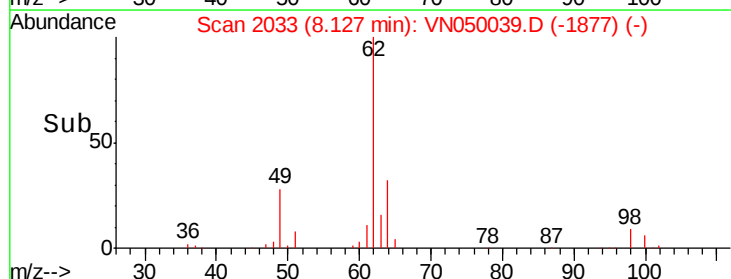
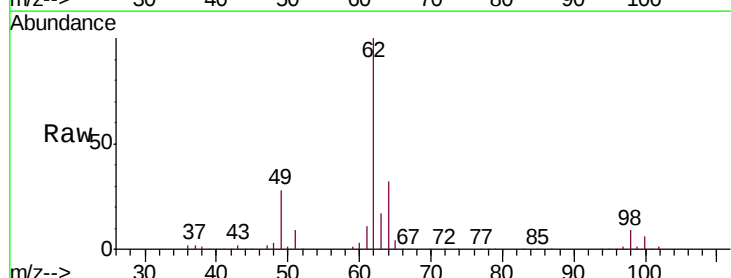
Manual Integrations
APPROVED

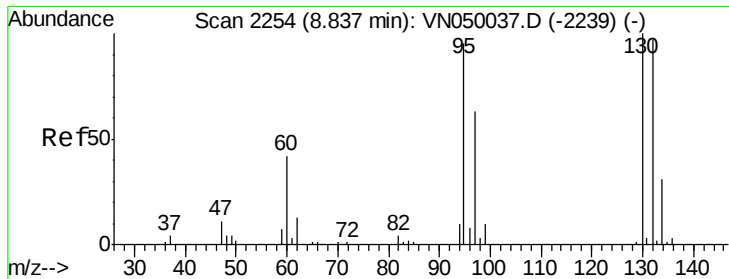
MMDadoda
7/26/2018 3:53:55 PM



#36
1,2-Dichloroethane
Concen: 91.75 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.8	11.6





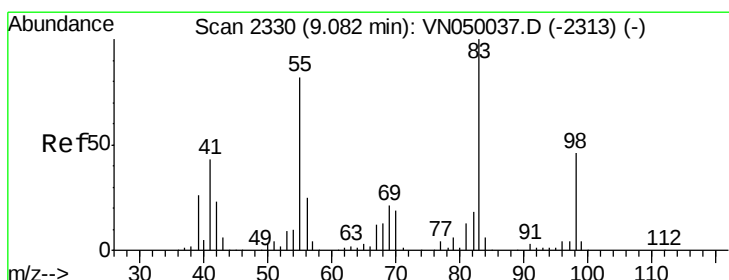
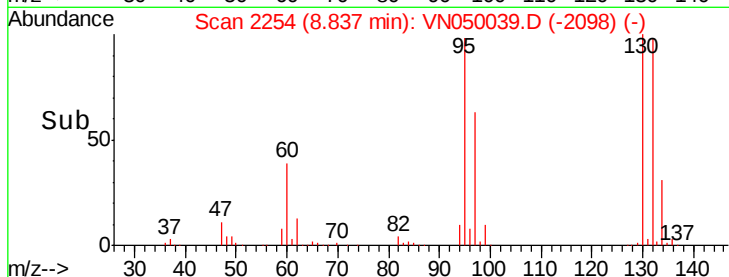
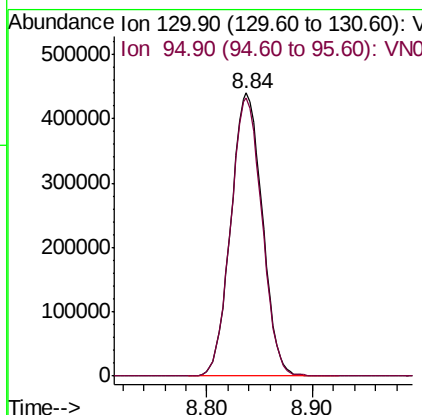
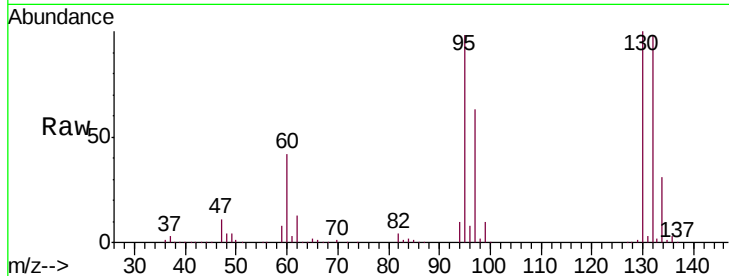
#37
 Trichloroethene
 Concen: 94.41 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:130 Resp: 908427
 Ion Ratio Lower Upper
 130 100
 95 98.4 79.7 119.5

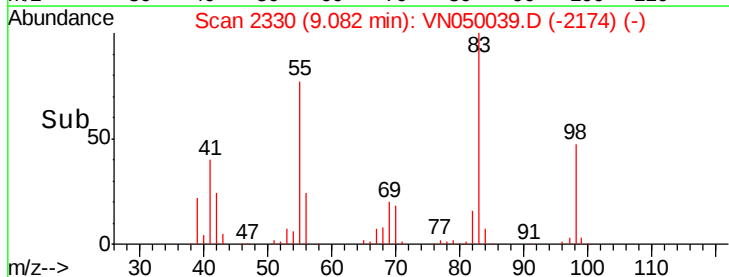
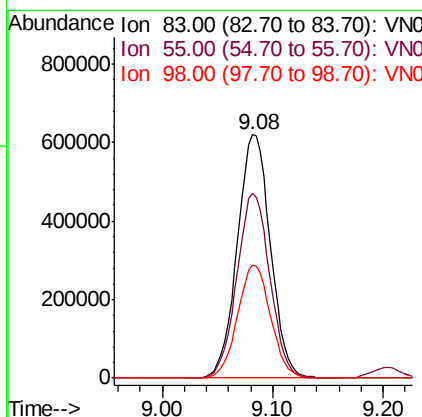
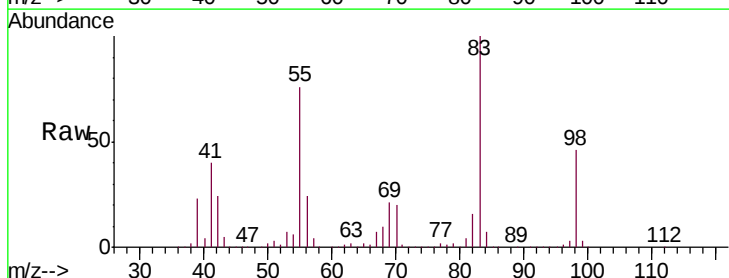
Manual Integrations
 APPROVED

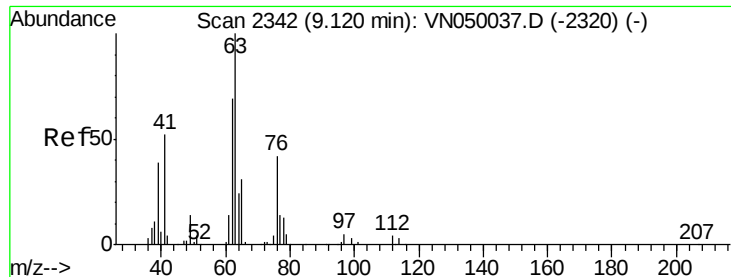
MMDadoda
 7/26/2018 3:53:55 PM



#38
 Methylcyclohexane
 Concen: 104.08 ug/l
 RT: 9.08 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion: 83 Resp: 1290920
 Ion Ratio Lower Upper
 83 100
 55 75.6 39.3 117.8
 98 46.4 23.0 69.0





#39

1,2-Dichloropropane

Concen: 94.28 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 63 Resp: 916447

Ion Ratio Lower Upper

63 100

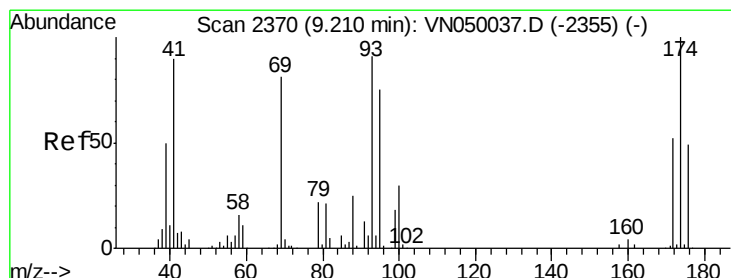
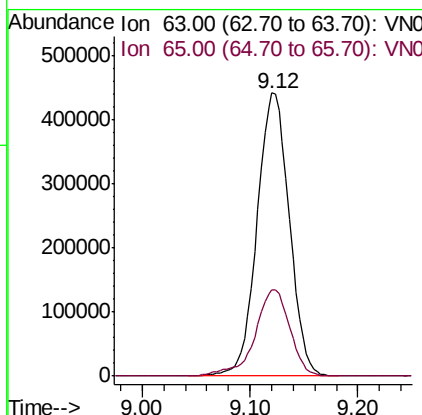
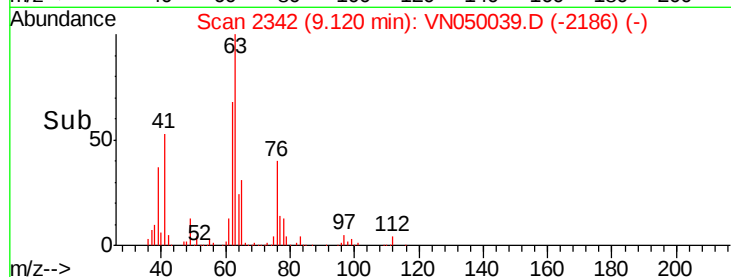
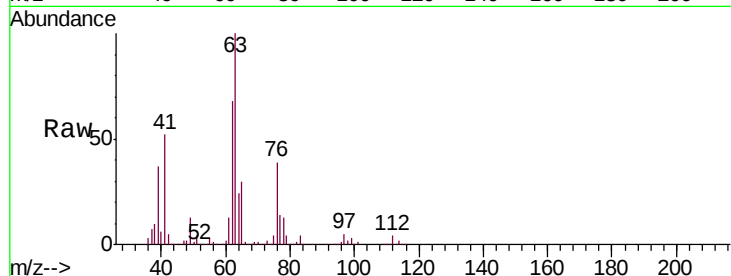
65 30.4 24.2 36.2

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#40

Dibromomethane

Concen: 95.59 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

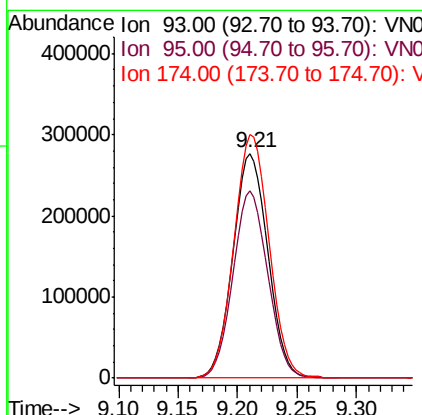
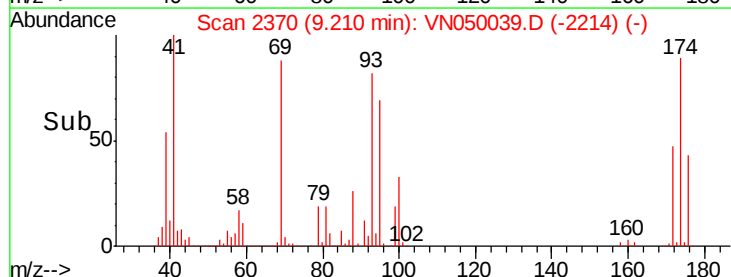
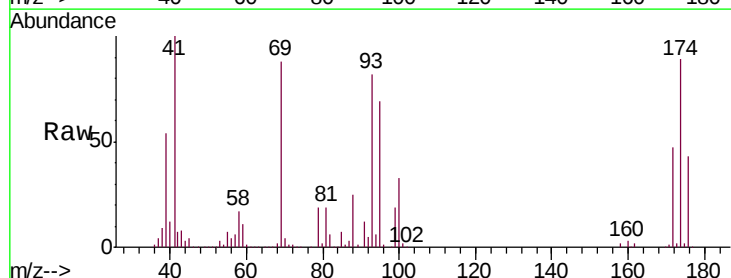
Tgt Ion: 93 Resp: 564924

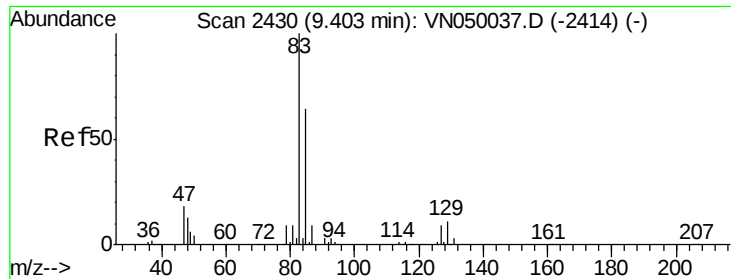
Ion Ratio Lower Upper

93 100

95 82.7 0.0 165.6

174 109.5 0.0 223.2





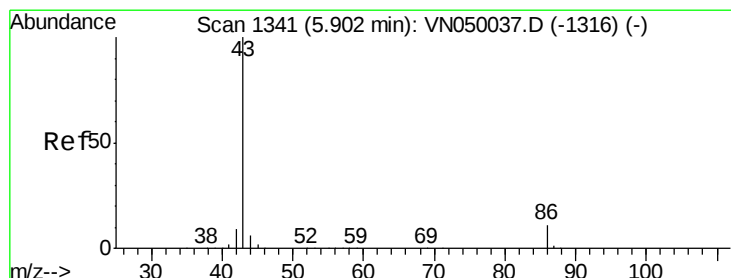
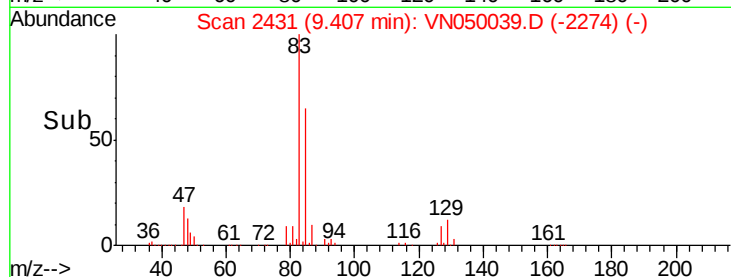
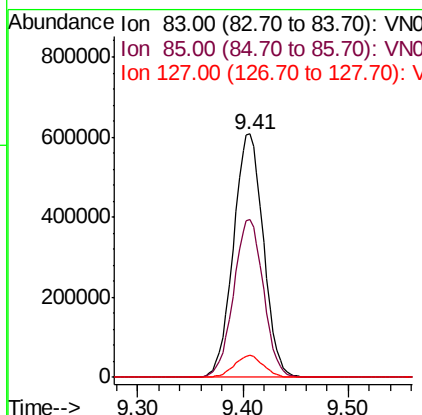
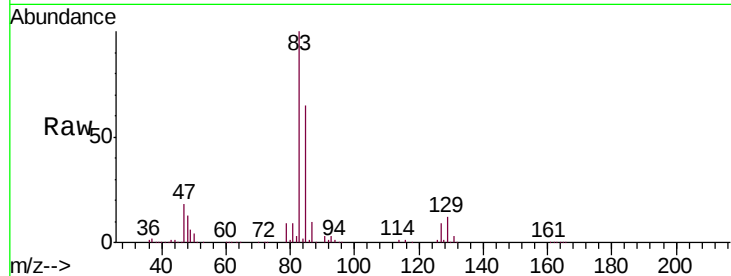
#41
Bromodichloromethane
Concen: 95.30 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	83	Resp	1192439
Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.6	78.8
127	8.9	7.0	10.4

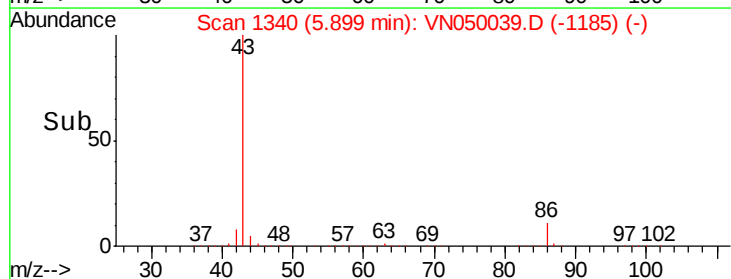
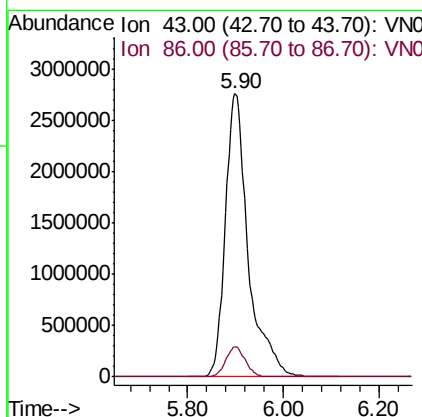
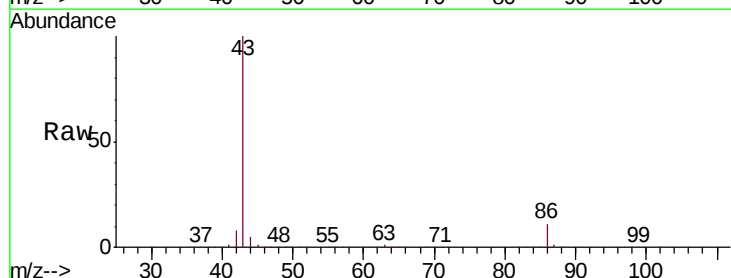
Manual Integrations
APPROVED

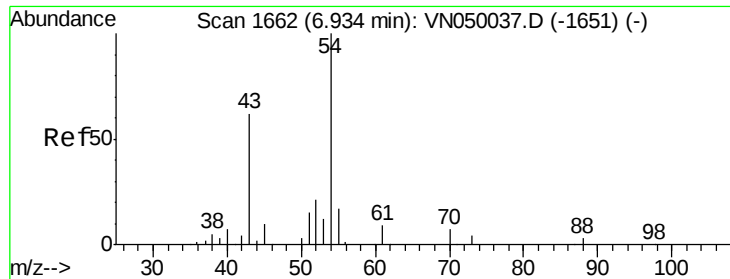
MMDadoda
7/26/2018 3:53:55 PM



#42
Vinyl Acetate
Concen: 532.85 ug/l
RT: 5.90 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	43	Resp	9209868
Ion	Ratio	Lower	Upper
43	100		
86	9.2	7.3	10.9





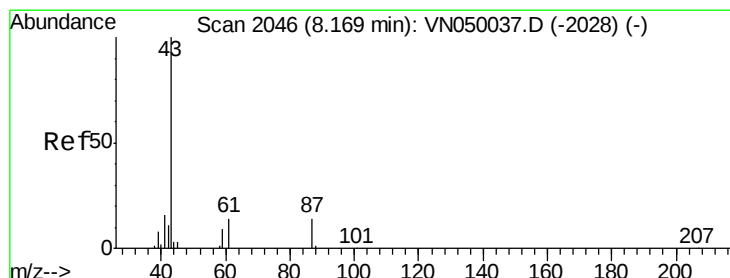
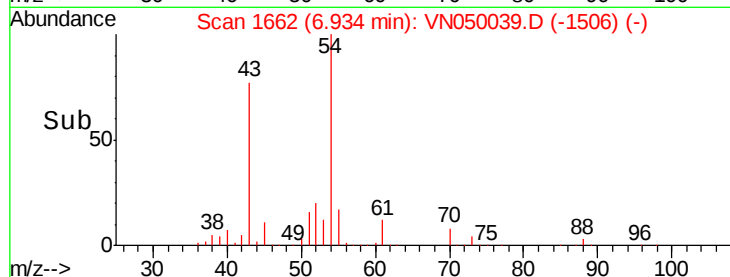
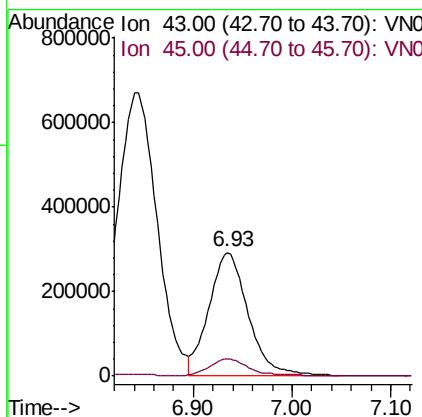
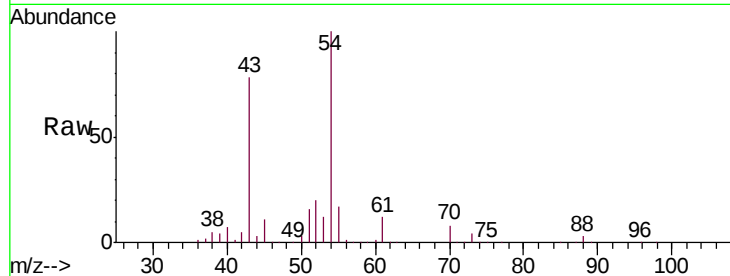
#43
Ethyl Acetate
Concen: 101.80 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 802103
Ion Ratio Lower Upper
43 100
45 13.3 13.0 19.6

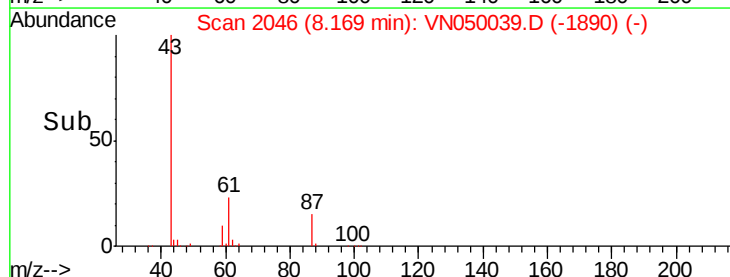
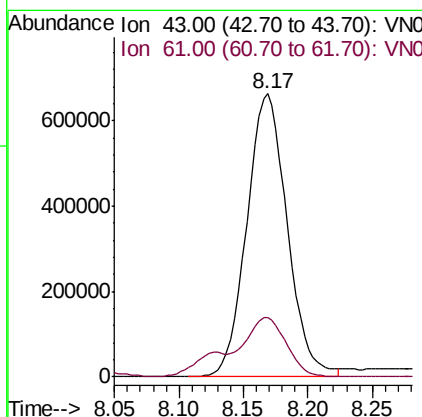
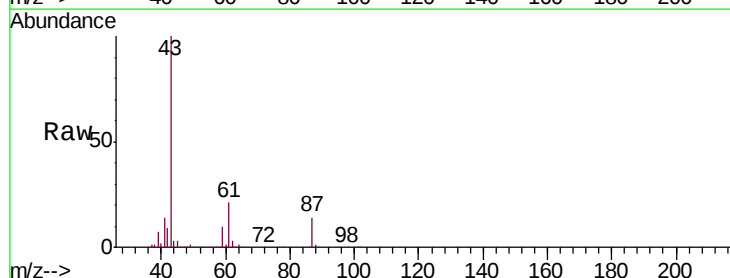
Manual Integrations
APPROVED

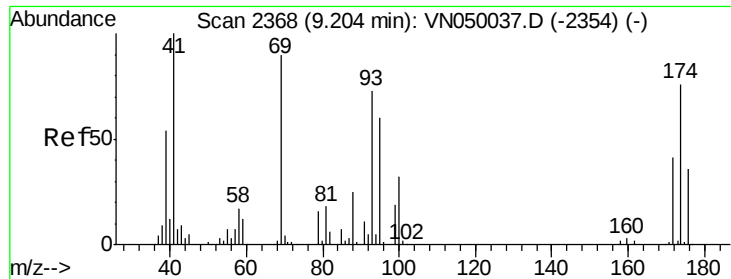
MMDadoda
7/26/2018 3:53:55 PM



#44
Isopropyl Acetate
Concen: 100.34 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion: 43 Resp: 1446713
Ion Ratio Lower Upper
43 100
61 20.4 16.4 24.6





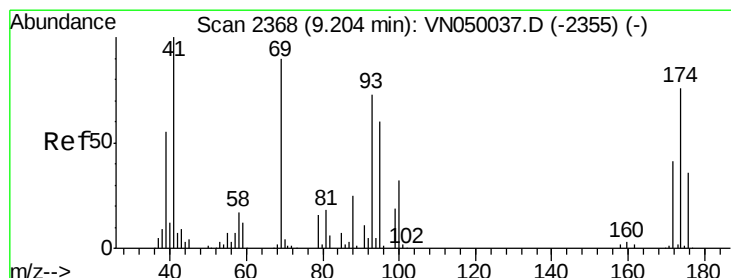
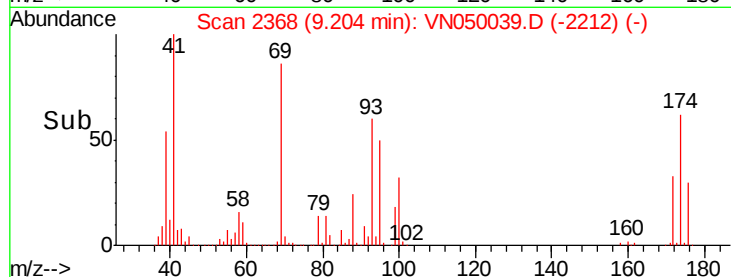
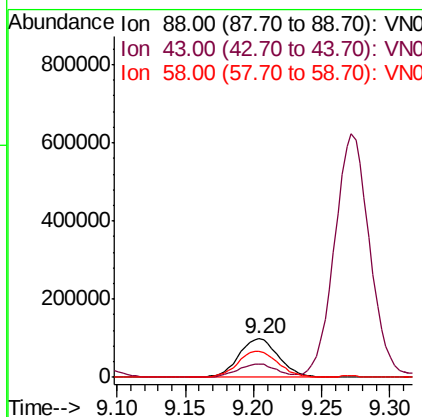
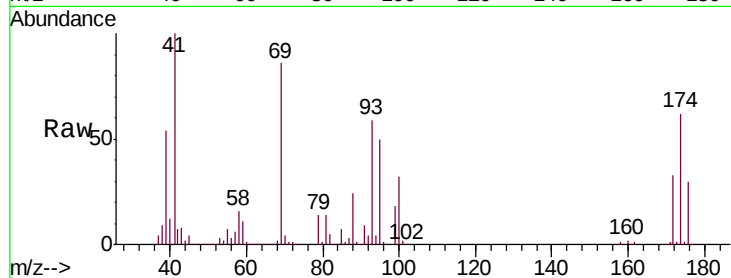
#45
 1,4-Dioxane
 Concen: 2128.91 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.3	26.9	40.3
58	69.1	53.6	80.4

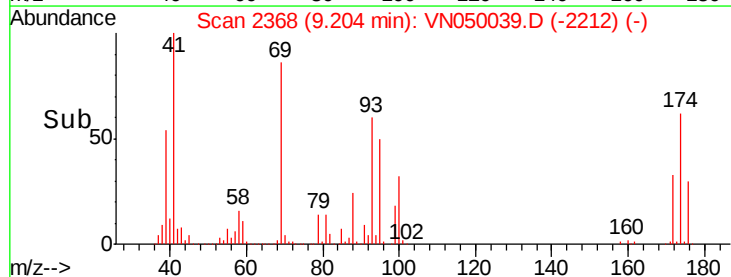
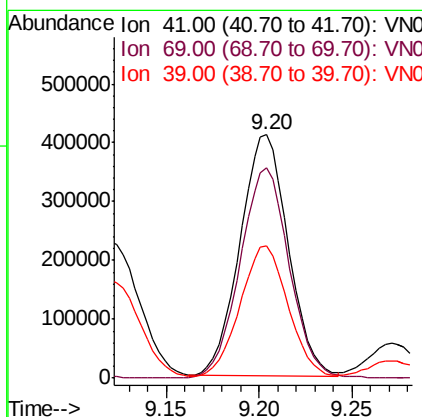
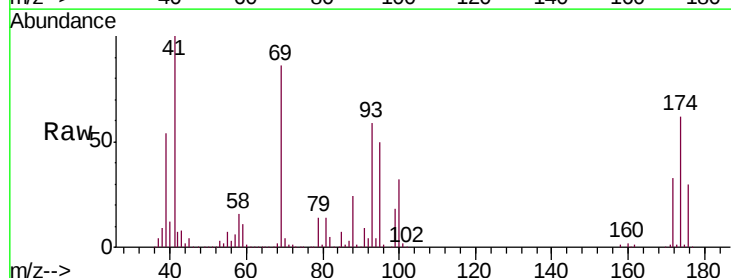
Manual Integrations
 APPROVED

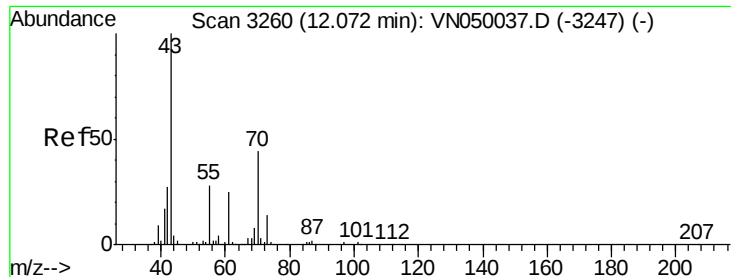
MMDadoda
 7/26/2018 3:53:55 PM



#46
 Methyl methacrylate
 Concen: 108.19 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
41	100		
69	86.8	44.0	132.1
39	53.8	27.0	80.8





#47

n-amyl Acetate

Concen: 123.73 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1270744

Ion Ratio Lower Upper

43 100

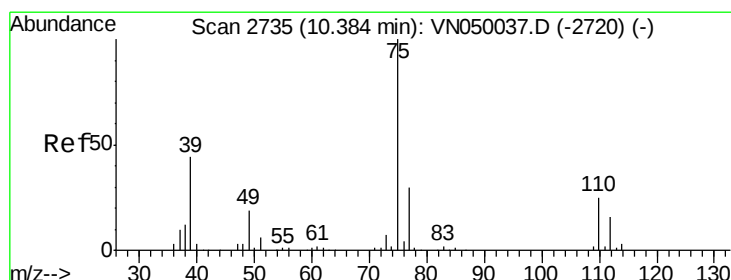
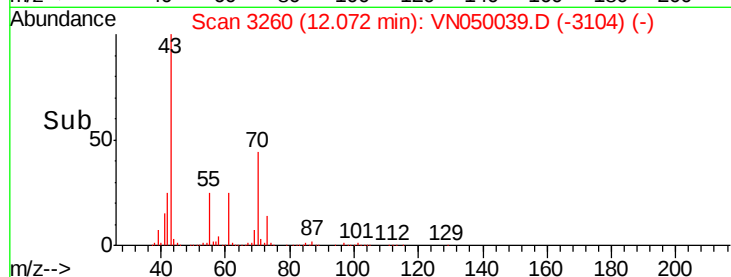
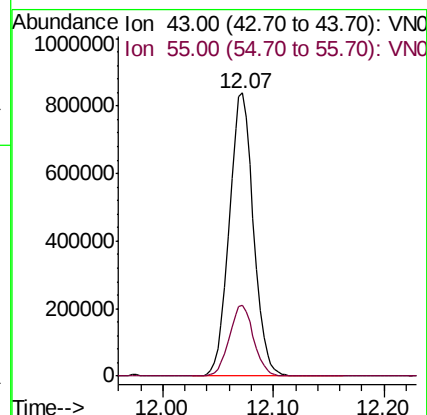
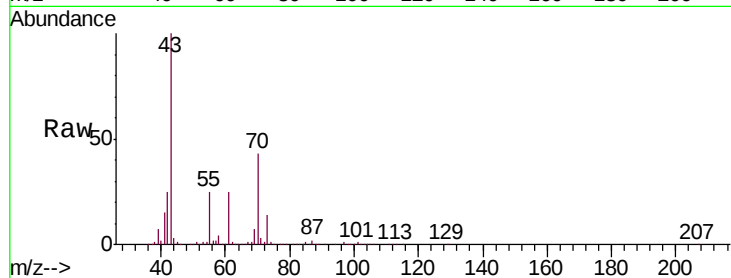
55 25.5 21.0 31.4

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#48

t-1,3-Dichloropropene

Concen: 95.03 ug/l

RT: 7.79 min Scan# 1929

Delta R.T. -0.00 min

Lab File: VN050039.D

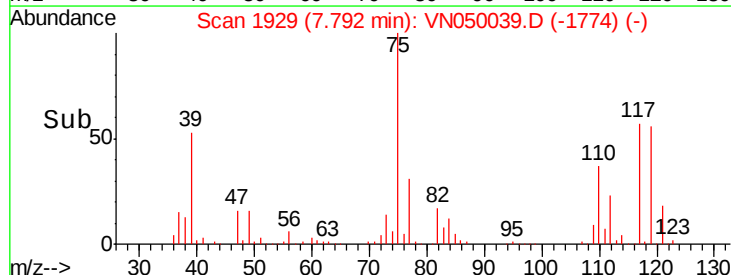
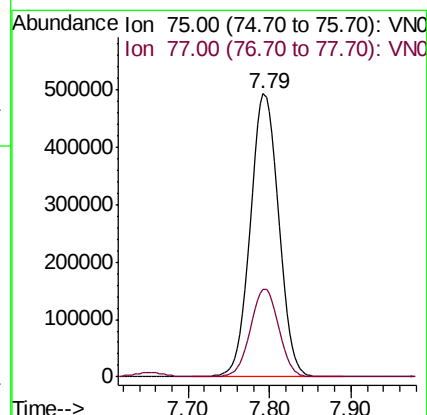
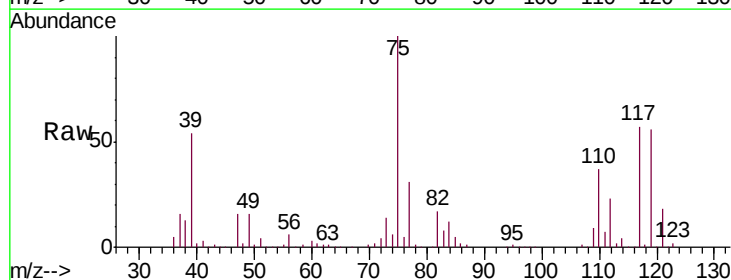
Acq: 25 Jul 2018 9:46

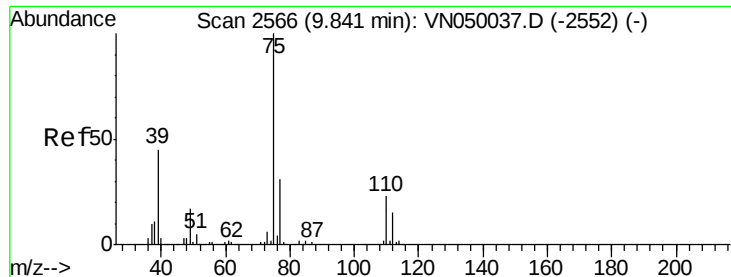
Tgt Ion: 75 Resp: 1177833

Ion Ratio Lower Upper

75 100

77 31.0 24.6 37.0





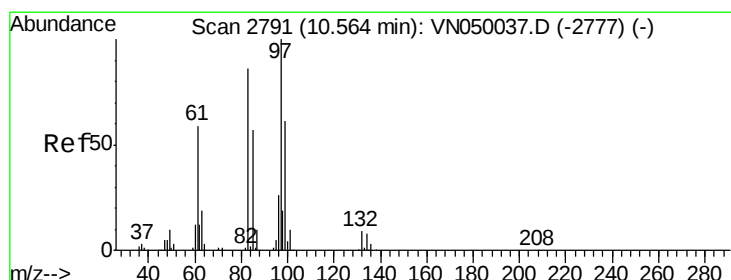
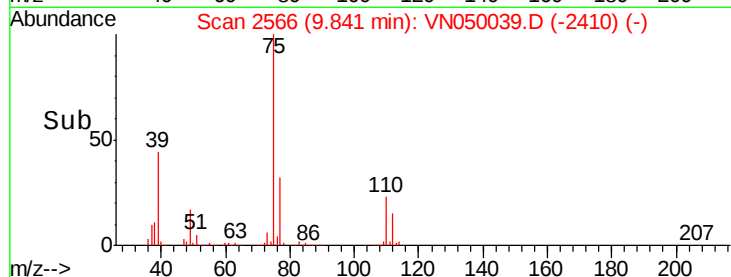
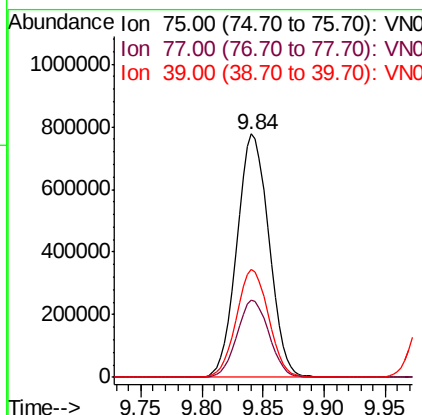
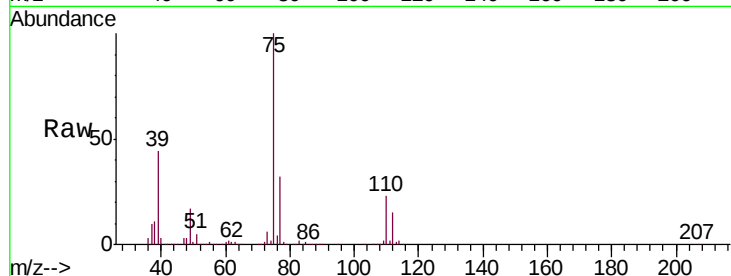
#49
 cis-1,3-Dichloropropene
 Concen: 102.30 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 75 Resp: 1414690
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.7 38.5
 39 44.2 36.3 54.5

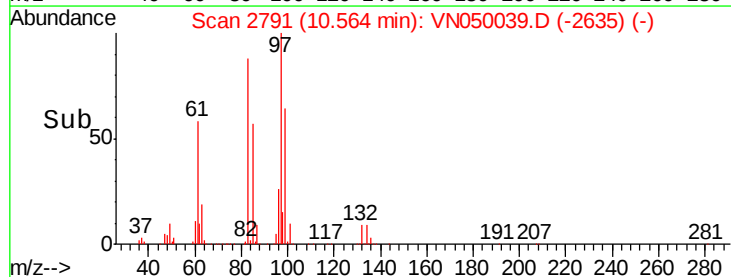
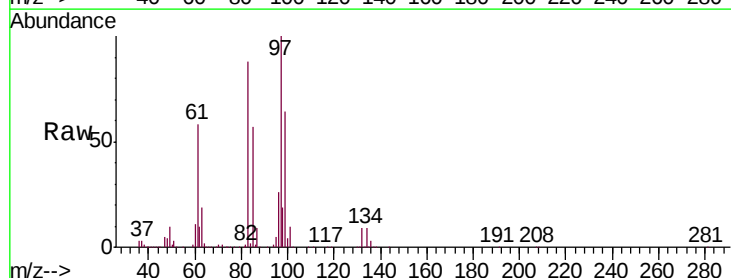
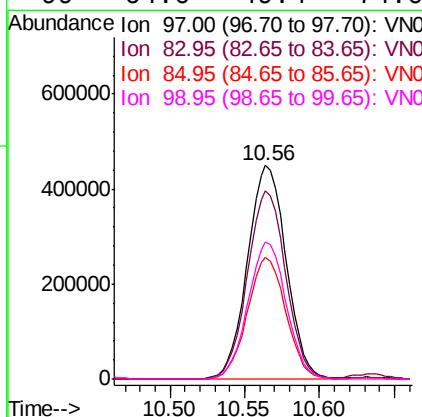
Manual Integrations
 APPROVED

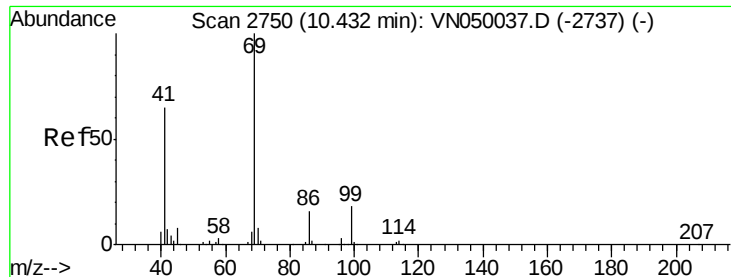
MMDadoda
 7/26/2018 3:53:55 PM



#50
 1,1,2-Trichloroethane
 Concen: 95.32 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion: 97 Resp: 809113
 Ion Ratio Lower Upper
 97 100
 83 88.1 68.1 102.1
 85 57.0 45.4 68.2
 99 64.0 49.4 74.0





#51

Ethyl methacrylate

Concen: 117.72 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 69 Resp: 1113260

Ion Ratio Lower Upper

69 100

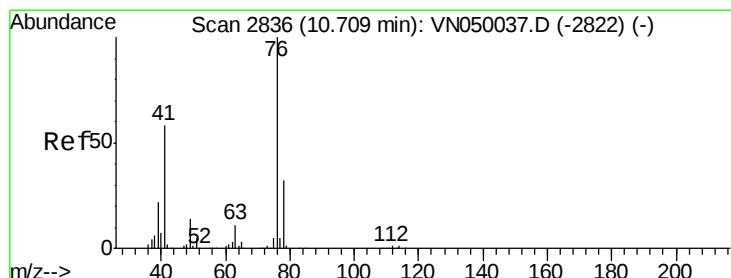
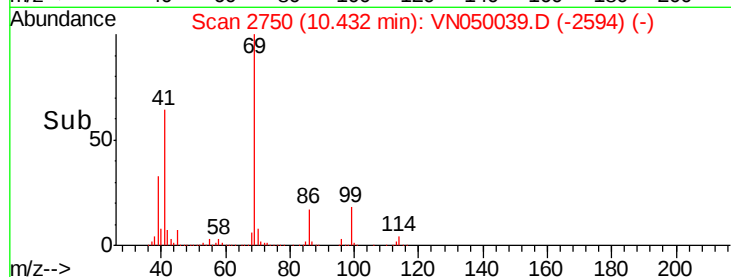
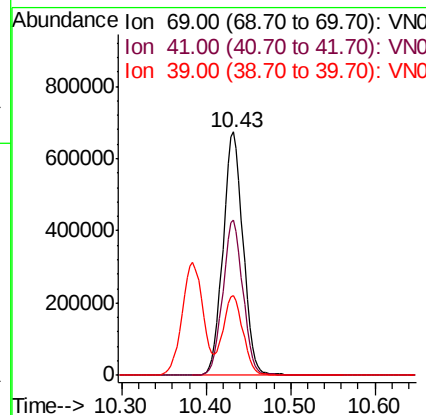
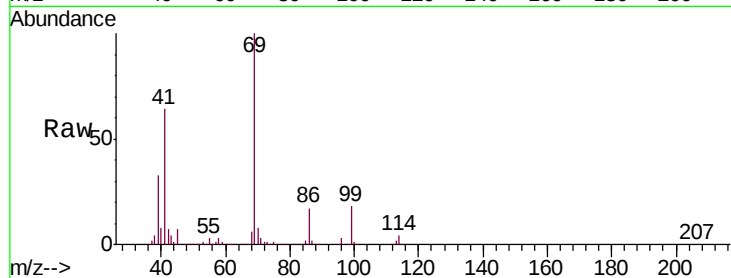
41 63.7 31.9 95.9

39 32.7 16.7 50.1

Manual Integrations
APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#52

1,3-Dichloropropane

Concen: 97.87 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050039.D

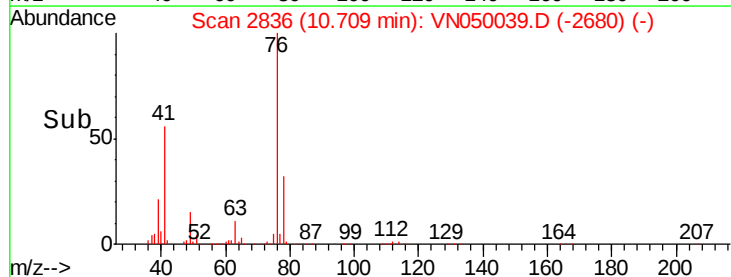
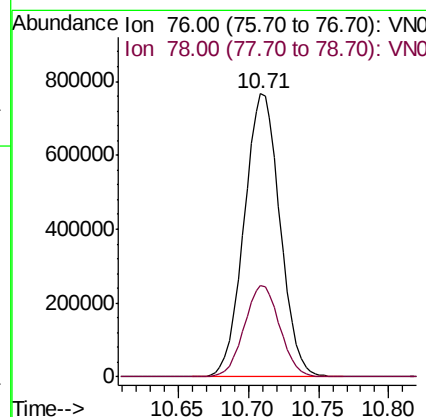
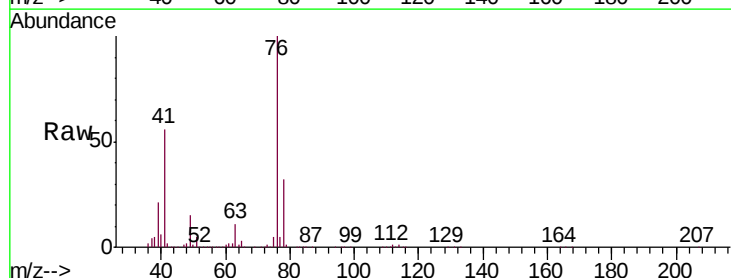
Acq: 25 Jul 2018 9:46

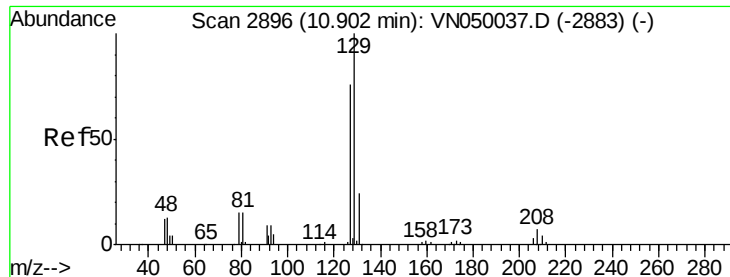
Tgt Ion: 76 Resp: 1364545

Ion Ratio Lower Upper

76 100

78 32.1 0.0 65.6





#53

Dibromochloromethane

Concen: 99.40 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:129 Resp: 943319

Ion Ratio Lower Upper

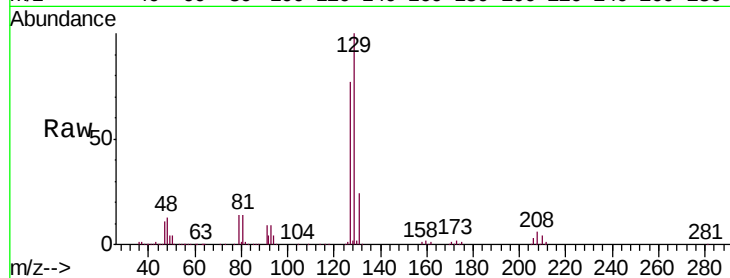
129 100

127 76.8 38.1 114.5

Manual Integrations
APPROVED

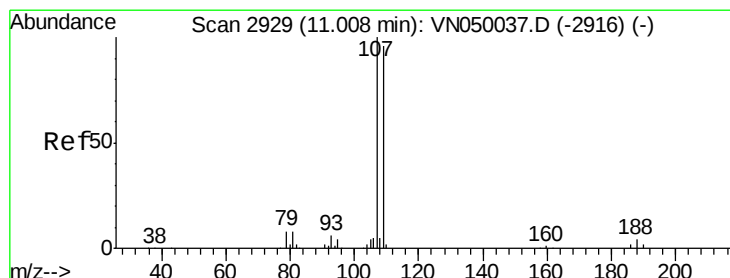
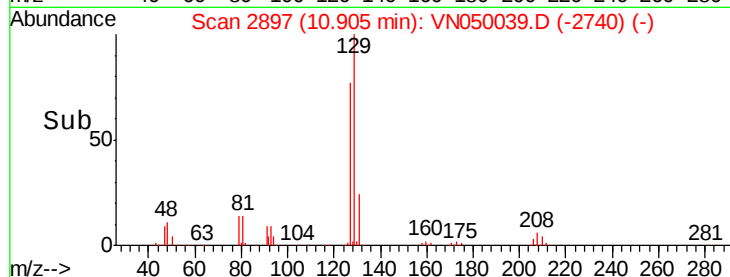
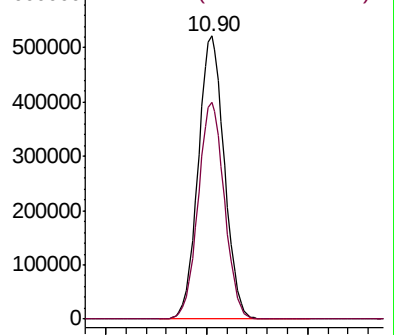
MMDadoda

7/26/2018 3:53:55 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 101.39 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050039.D

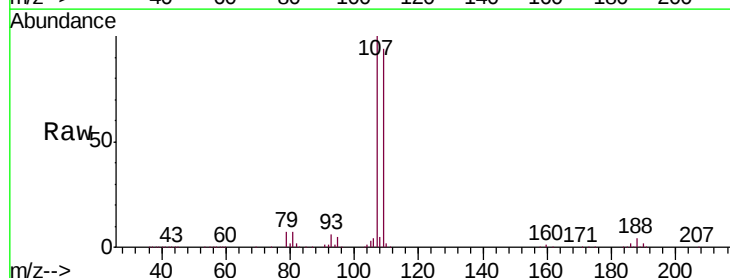
Acq: 25 Jul 2018 9:46

Tgt Ion:107 Resp: 829001

Ion Ratio Lower Upper

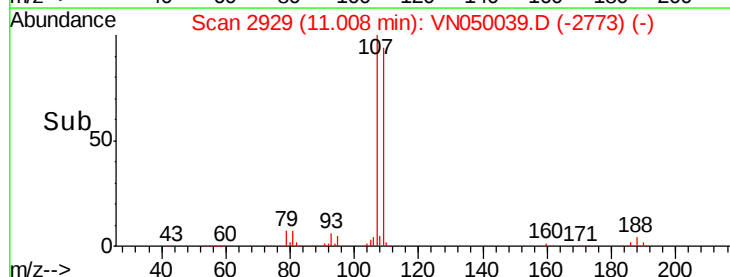
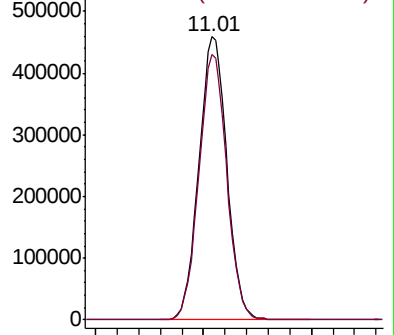
107 100

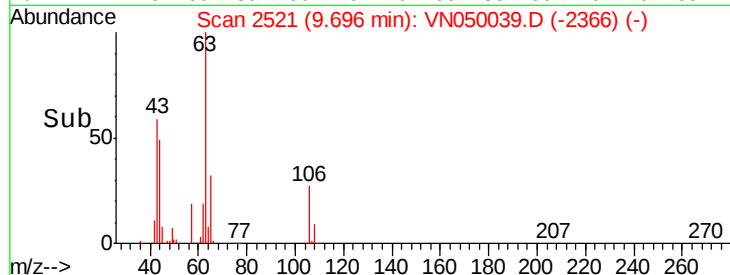
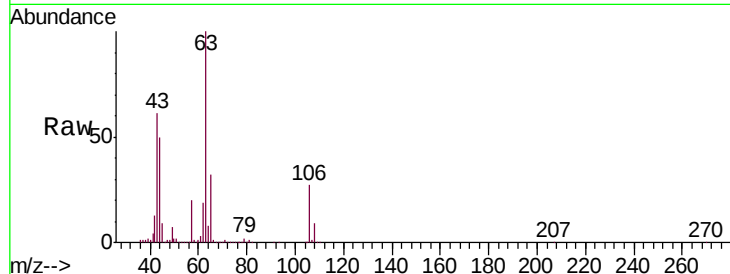
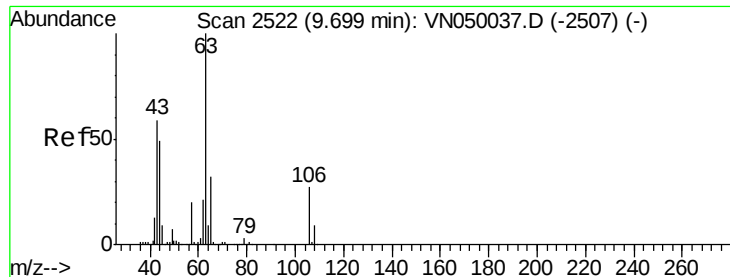
109 93.4 76.2 114.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





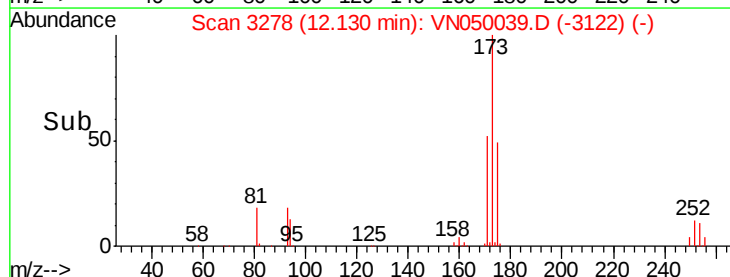
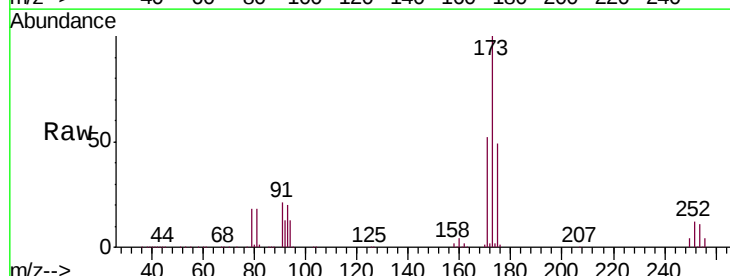
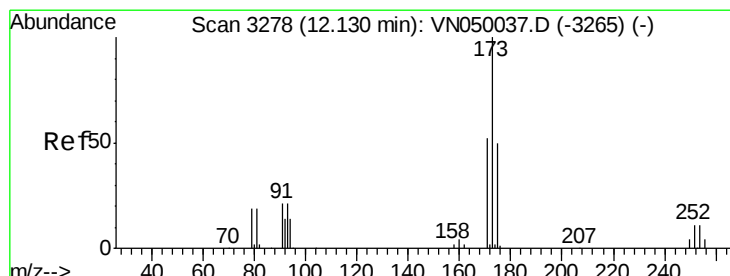
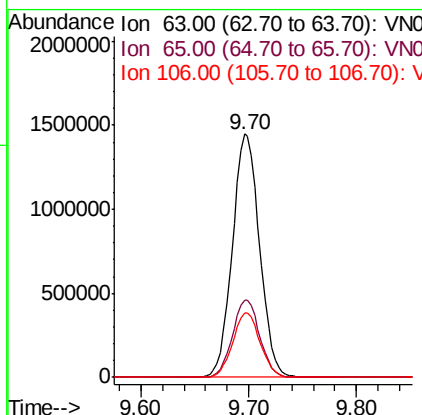
#55
2-Chloroethyl vinyl ether
Concen: 568.47 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tot Ion:	63	Resp:	2544548
Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.5	38.3
106	26.8	21.8	32.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

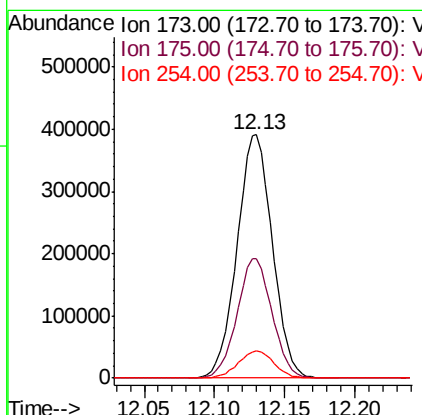
Manual Integrations
APPROVED

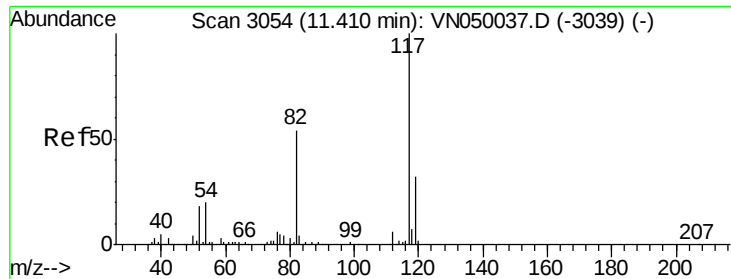
MMDadoda
7/26/2018 3:53:55 PM



#56
Bromoform
Concen: 105.49 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion:	173	Resp:	686457
Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.6	57.8
254	11.2	8.8	13.2





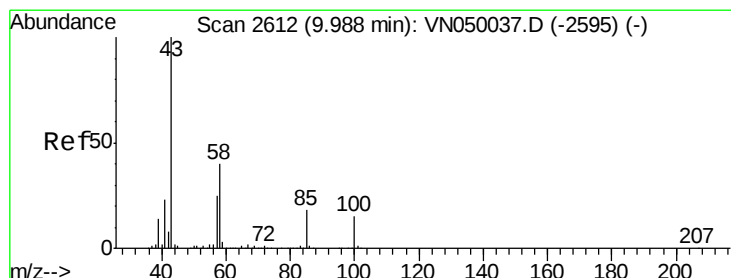
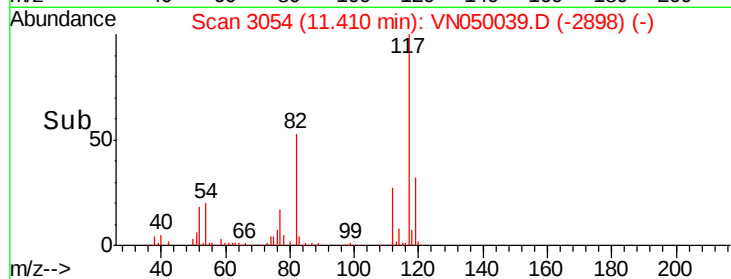
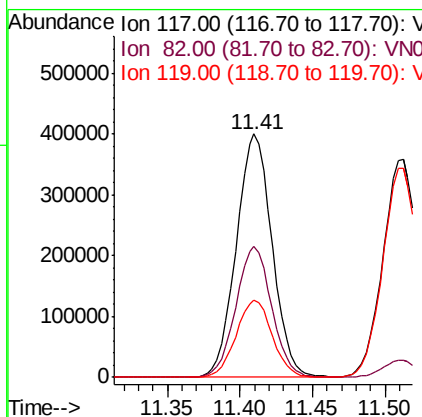
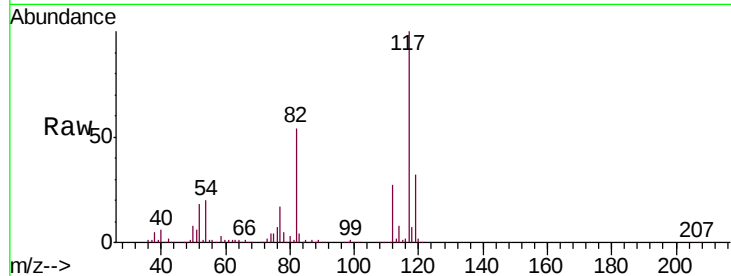
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	42.4	63.6
119	32.1	25.4	38.0

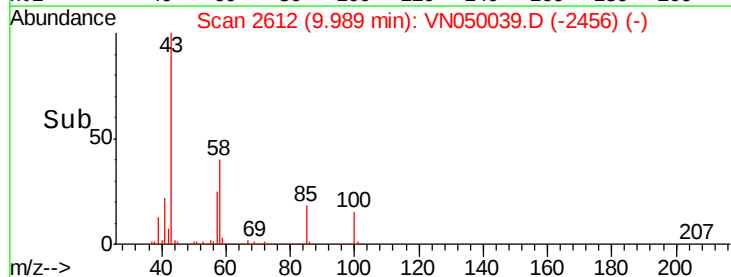
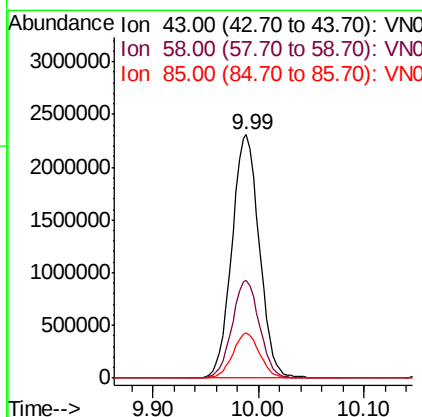
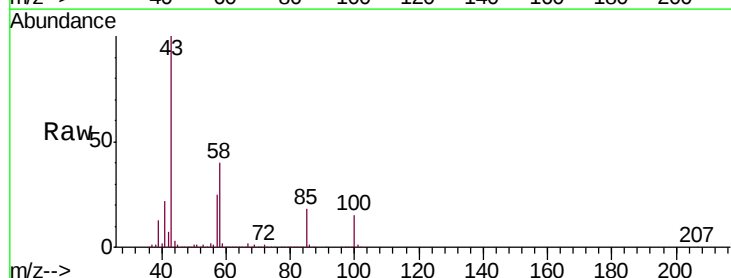
Manual Integrations
APPROVED

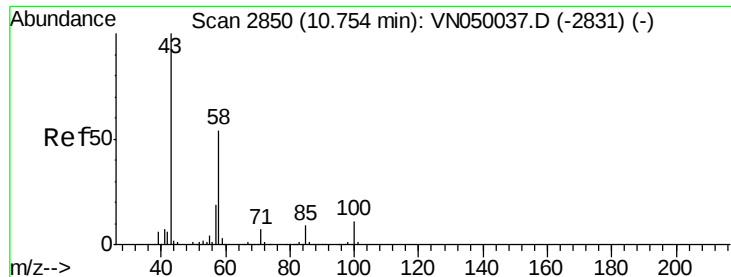
MMDadoda
7/26/2018 3:53:55 PM



#58
4-Methyl-2-Pentanone
Concen: 508.60 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.0	31.2	46.8
85	18.3	14.4	21.6





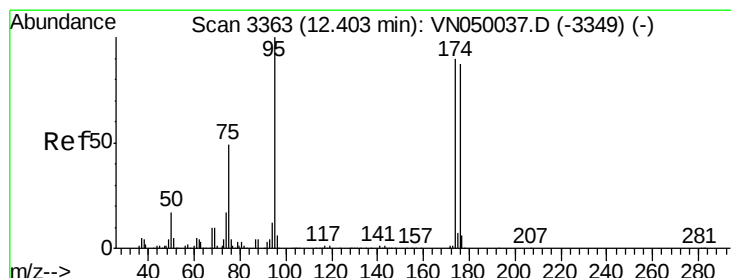
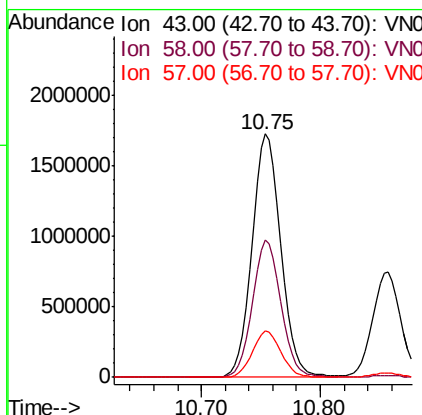
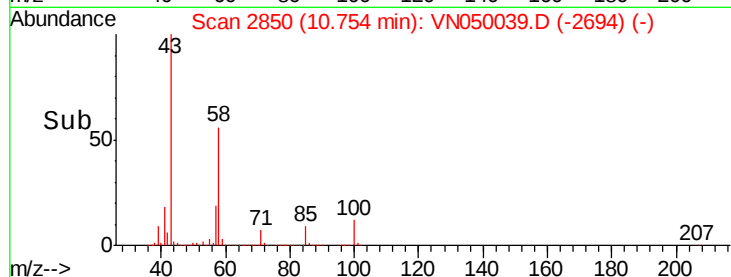
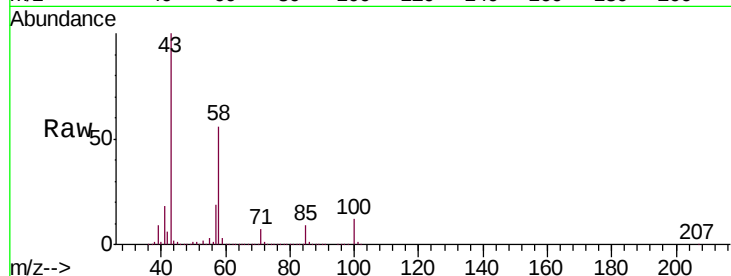
#59
2-Hexanone
Concen: 531.70 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.9	43.8	65.8
57	19.0	15.1	22.7

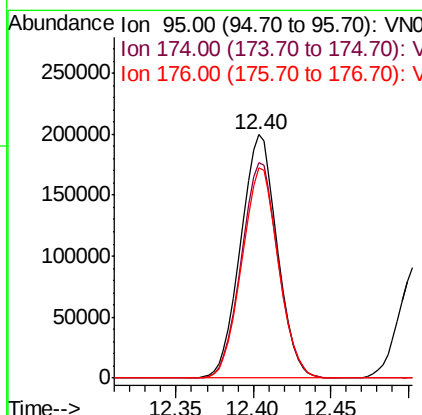
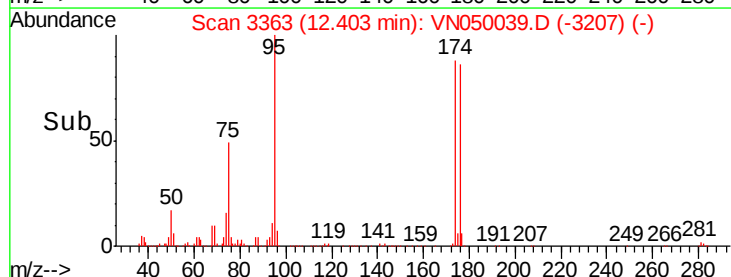
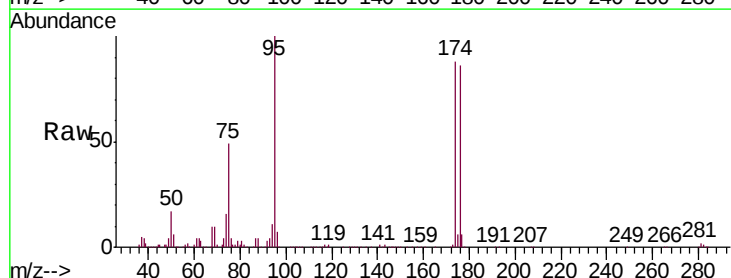
Manual Integrations
APPROVED

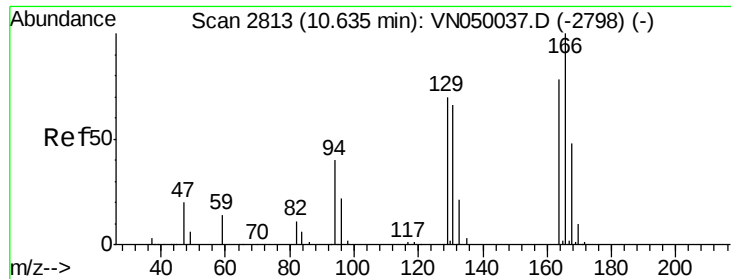
MMDadoda
7/26/2018 3:53:55 PM



#60
4-Bromofluorobenzene
Concen: 31.53 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.2	72.3	108.5
176	86.6	70.0	105.0





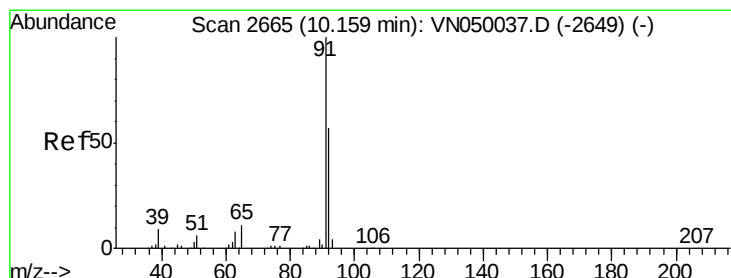
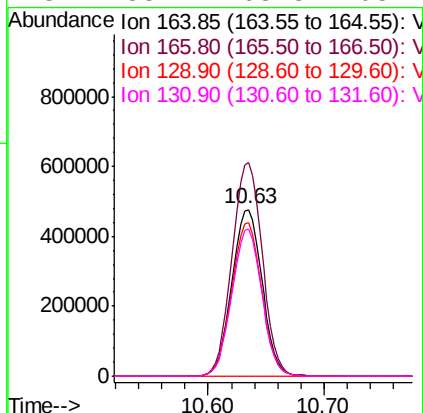
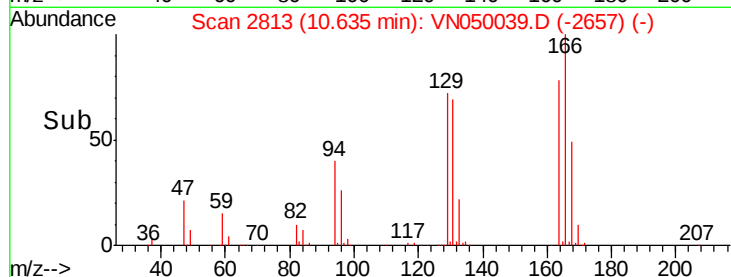
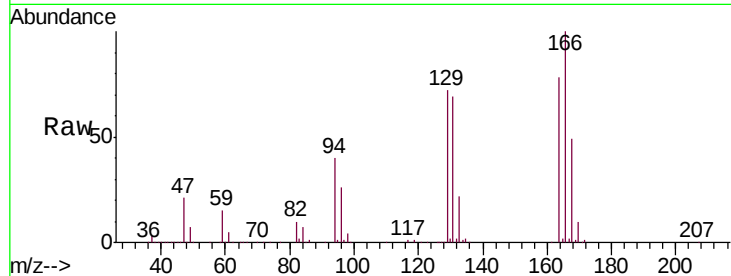
#61
Tetrachloroethene
Concen: 86.22 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
164	100		
166	128.1	100.0	150.0
129	91.8	69.3	103.9
131	88.4	68.8	103.2

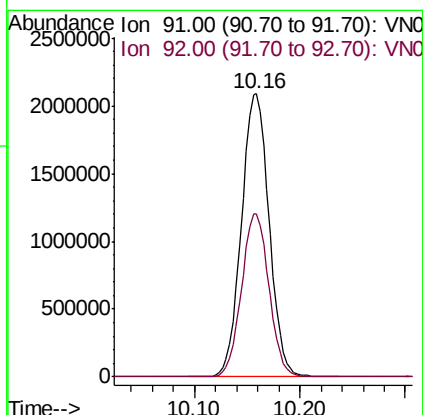
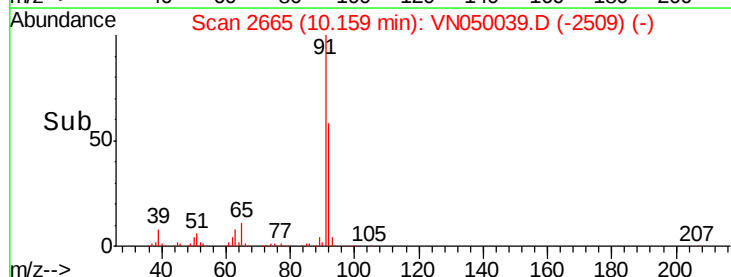
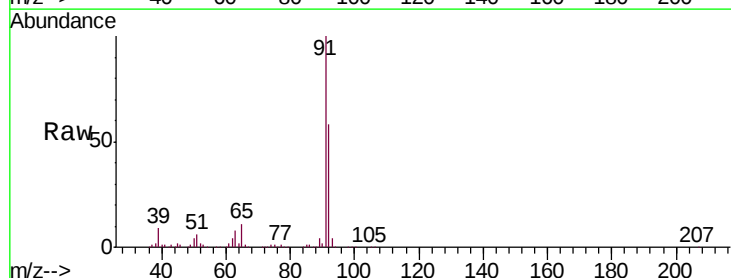
Manual Integrations
APPROVED

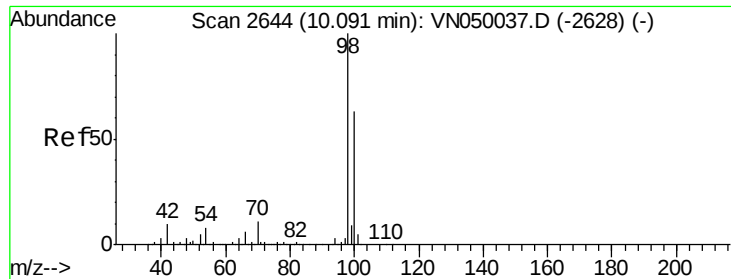
MMDadoda
7/26/2018 3:53:55 PM



#62
Toluene
Concen: 93.28 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.4	45.7	68.5





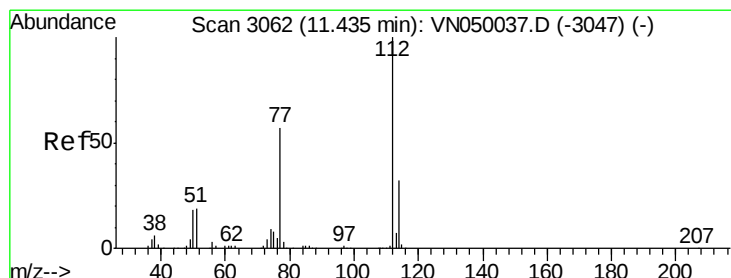
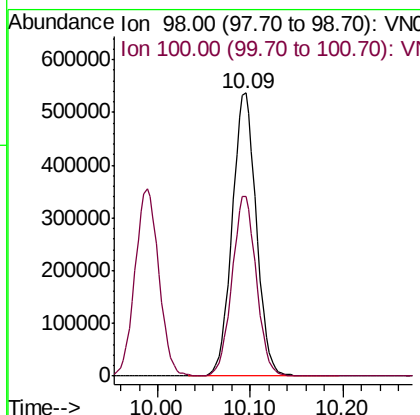
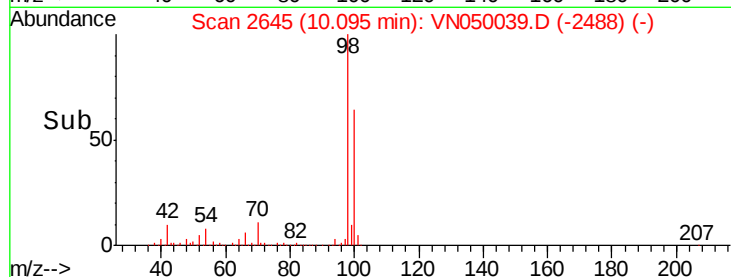
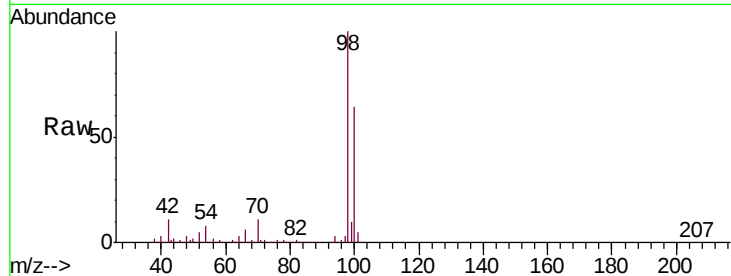
#63
Toluene-d8
Concen: 28.72 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 98 Resp: 967265
Ion Ratio Lower Upper
98 100
100 64.0 51.2 76.8

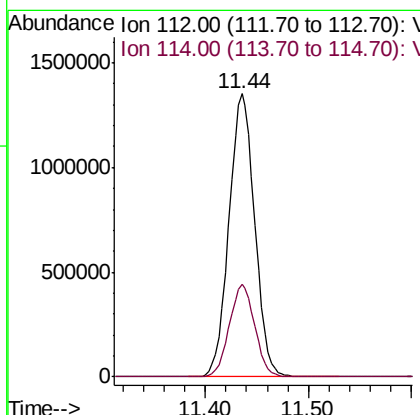
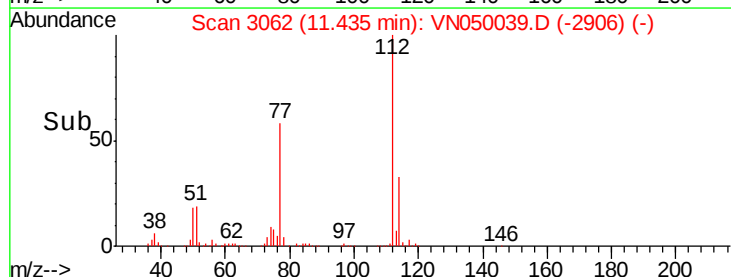
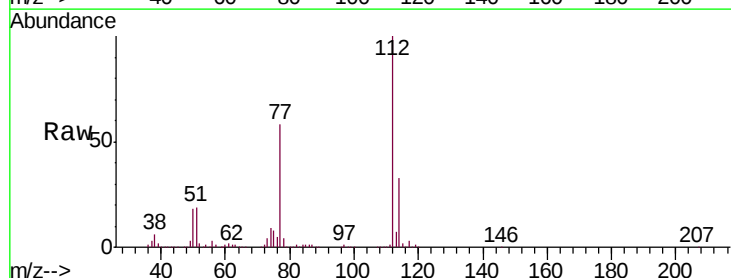
Manual Integrations
APPROVED

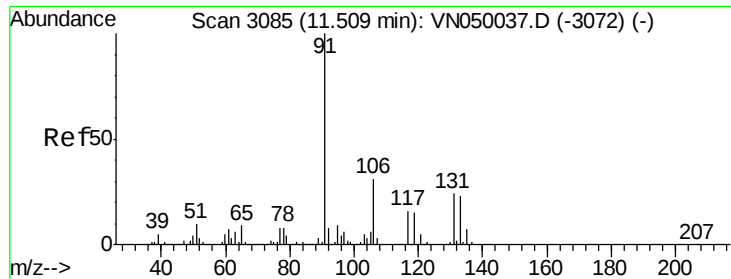
MMDadoda
7/26/2018 3:53:55 PM



#64
Chlorobenzene
Concen: 96.80 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion: 112 Resp: 2347132
Ion Ratio Lower Upper
112 100
114 32.6 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 93.78 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

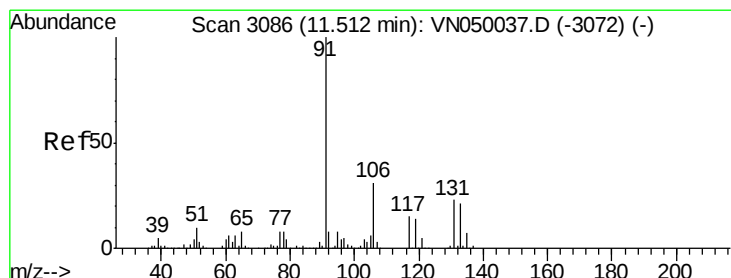
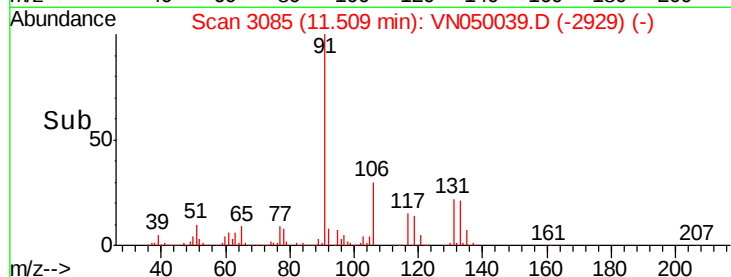
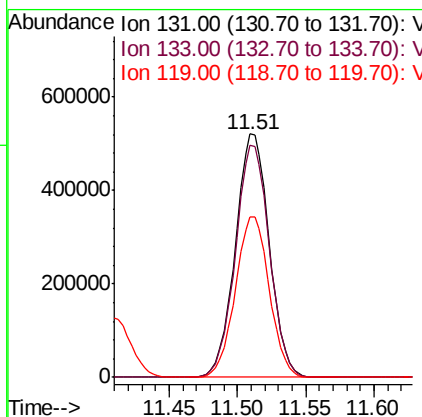
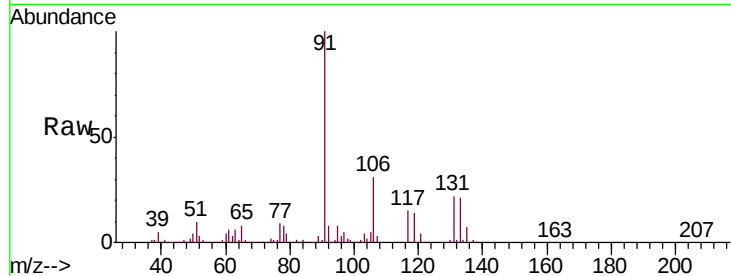
ClientSampleId :

VSTDIC100

Tot Ion:	131	Resp:	898852
Ion Ratio	Lower	Upper	
131	100		
133	95.7	0.0	190.0
119	66.1	0.0	131.6

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:55 PM



#66

Ethyl Benzene

Concen: 103.58 ug/l

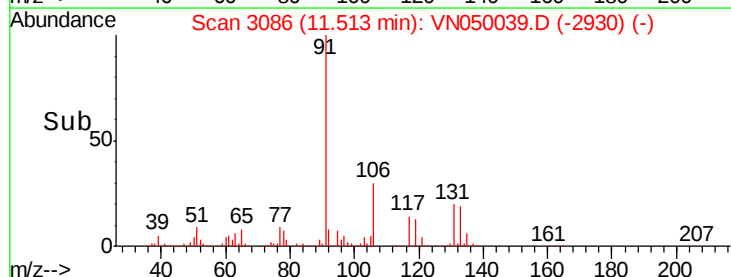
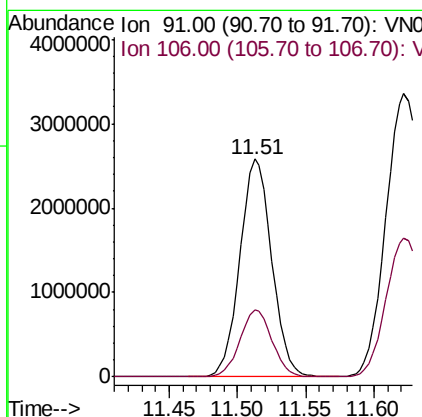
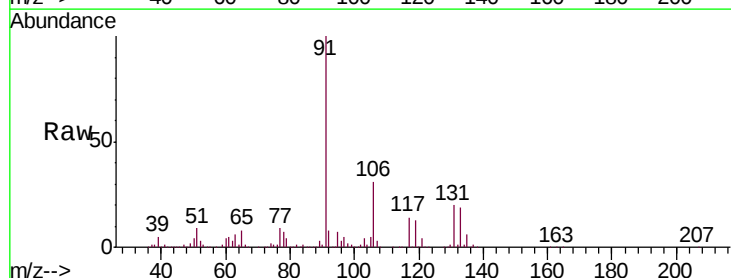
RT: 11.51 min Scan# 3086

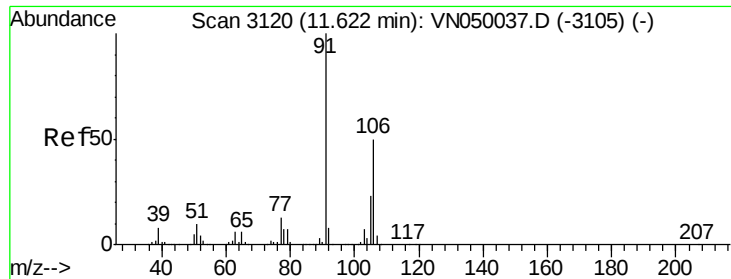
Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Tgt Ion:	91	Resp:	4184044
Ion Ratio	Lower	Upper	
91	100		
106	30.9	25.1	37.7





#67

m/p-Xylenes

Concen: 198.01 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:106 Resp: 3177671

Ion Ratio Lower Upper

106 100

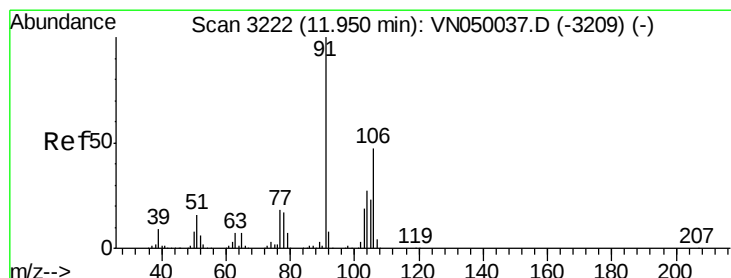
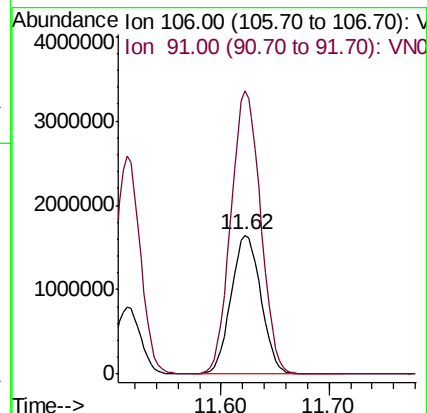
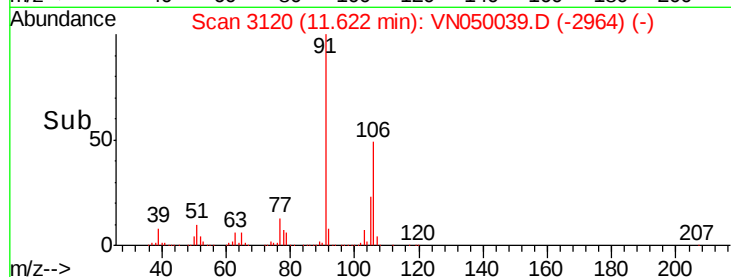
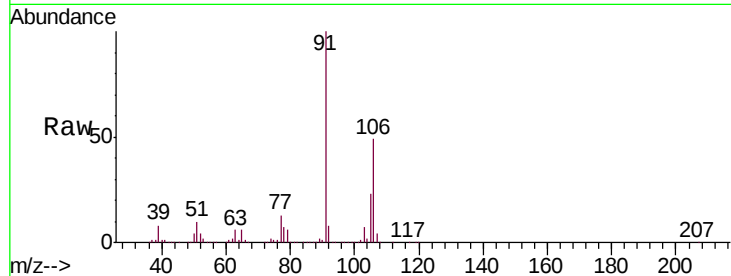
91 202.7 162.5 243.7

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#68

o-Xylene

Concen: 103.94 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN050039.D

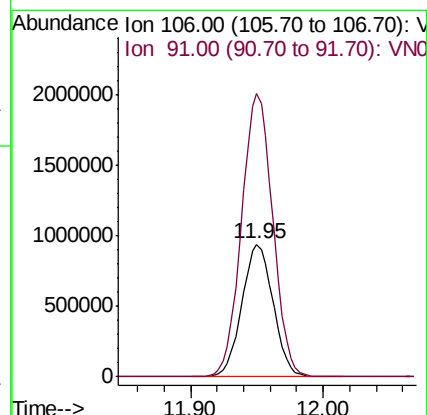
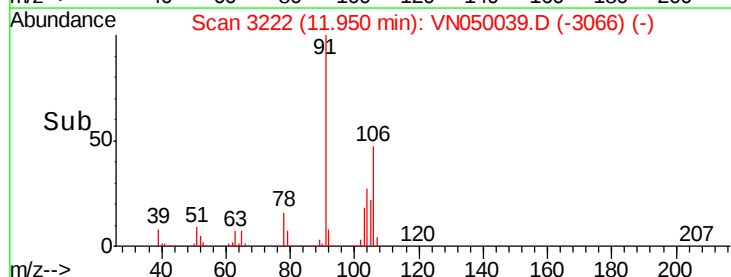
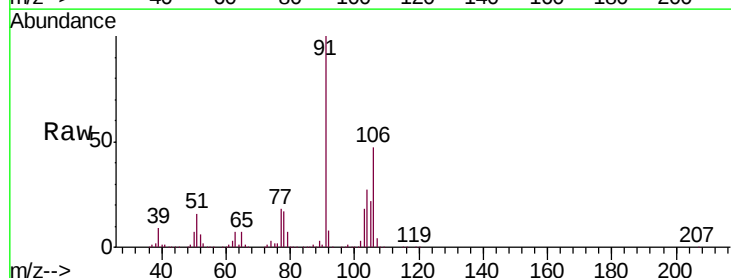
Acq: 25 Jul 2018 9:46

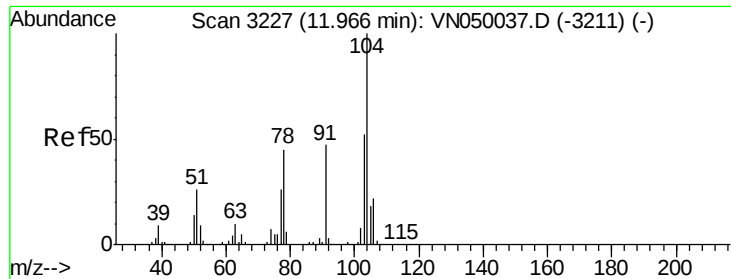
Tgt Ion:106 Resp: 1532058

Ion Ratio Lower Upper

106 100

91 214.0 106.8 320.4





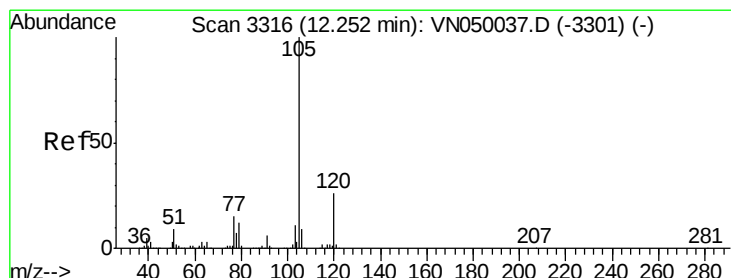
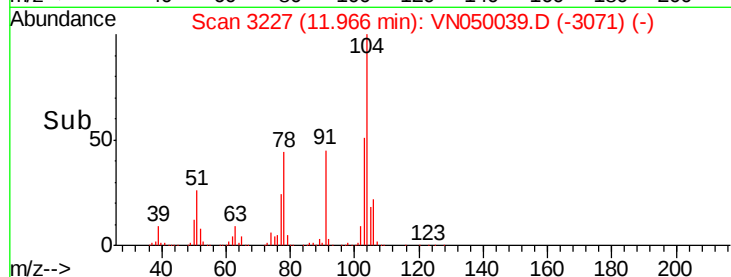
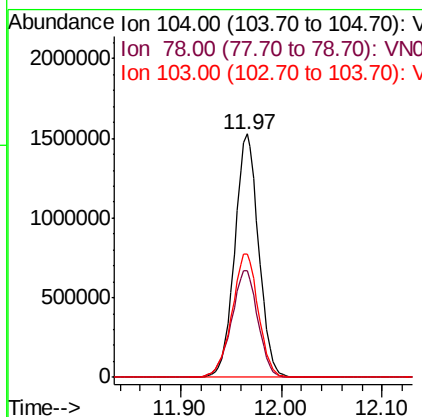
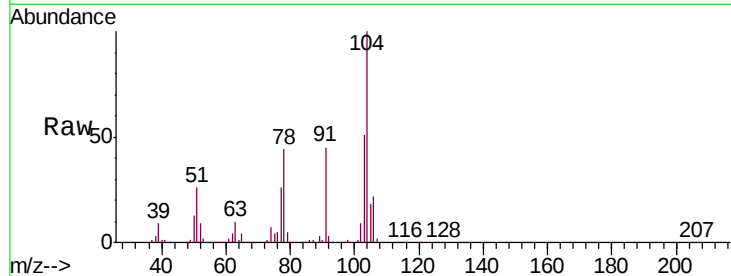
#69
Stvrene
Concen: 104.08 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.7	39.3	58.9
103	55.8	44.5	66.7

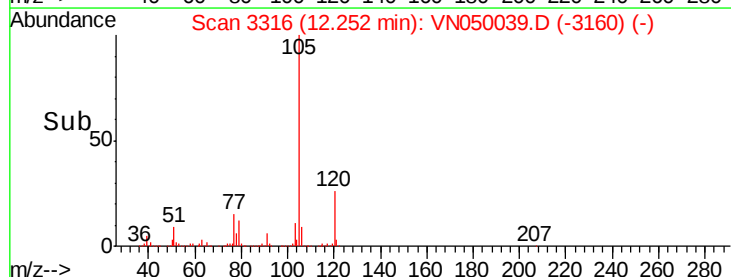
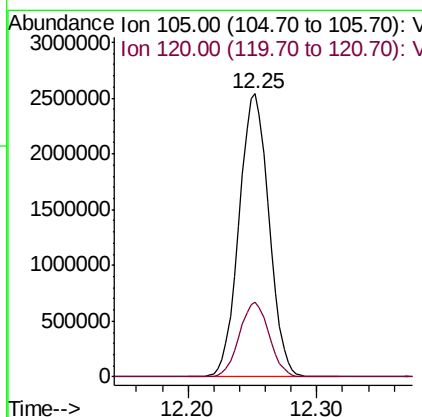
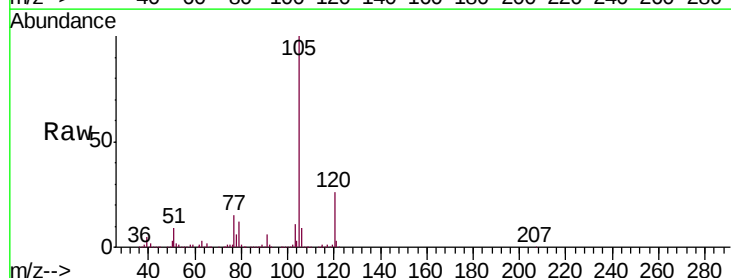
Manual Integrations
APPROVED

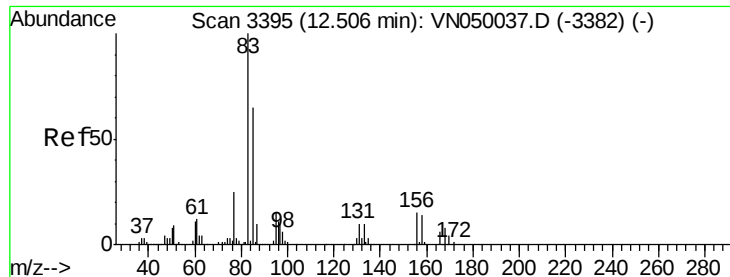
MMDadoda
7/26/2018 3:53:55 PM



#70
Isopropylbenzene
Concen: 102.22 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.3	18.9	35.1





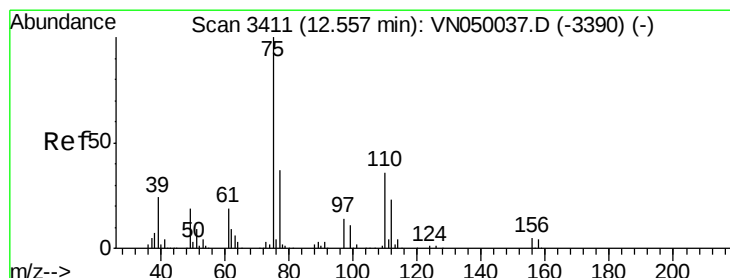
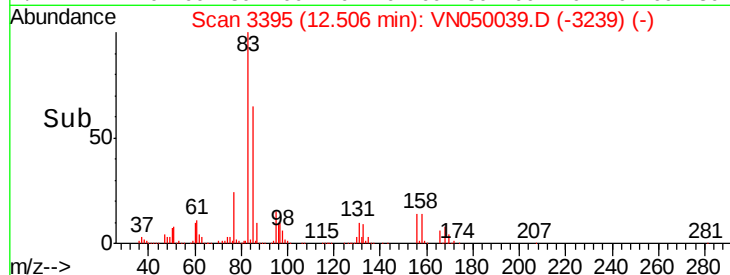
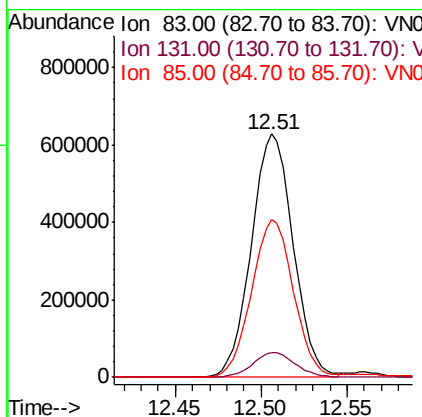
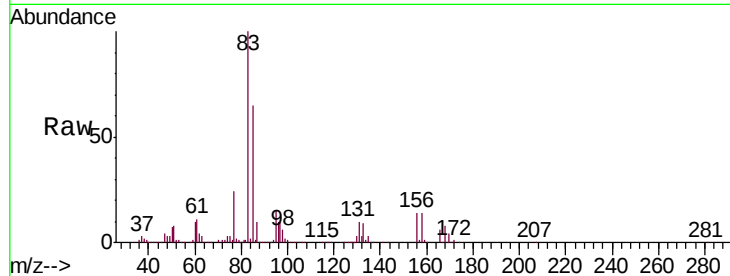
#71
 1,1,2,2-Tetrachloroethane
 Concen: 98.58 ug/l
 RT: 12.51 min Scan# 3395
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	83	Resp	1058871
Ion Ratio	100	Lower	Upper
83	100		
131	10.4	5.2	15.6
85	64.8	31.7	95.1

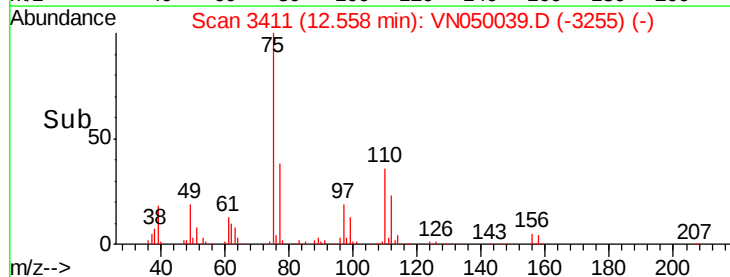
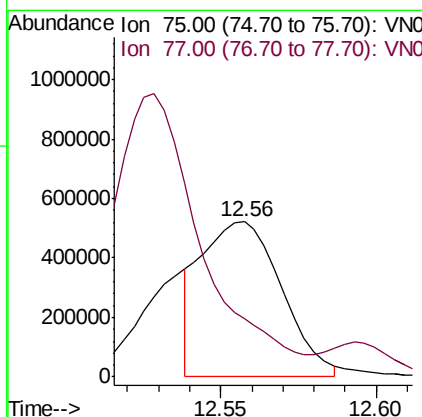
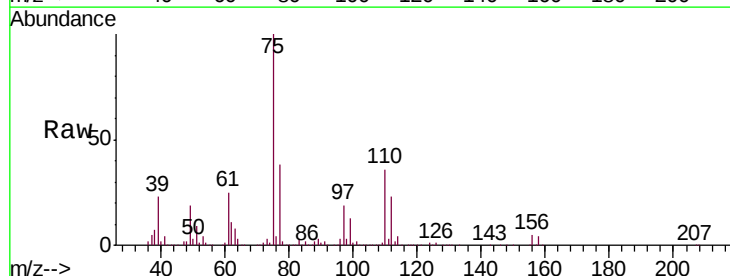
Manual Integrations
 APPROVED

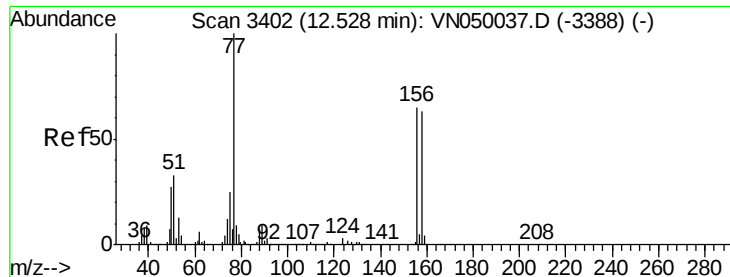
MMDadoda
 7/26/2018 3:53:55 PM



#72
 1,2,3-Trichloropropane
 Concen: 108.55 ug/l m
 RT: 12.56 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion	75	Resp	937056
Ion Ratio	100	Lower	Upper
75	100		
77	205.8	0.0	454.4





#73

Bromobenzene

Concen: 100.04 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:156 Resp: 1048914

Ion Ratio Lower Upper

156 100

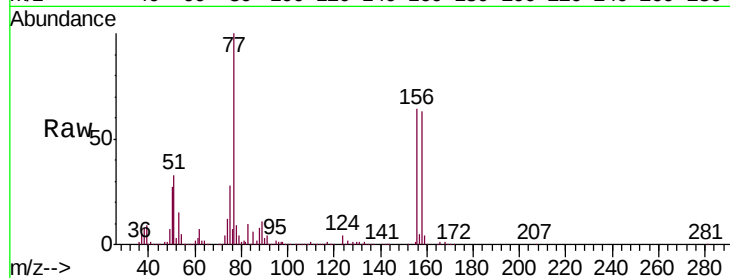
77 183.8 0.0 359.8

158 97.2 0.0 192.8

Manual Integrations
APPROVED

MMDadoda

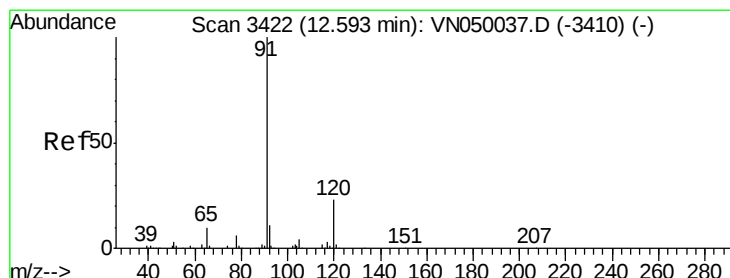
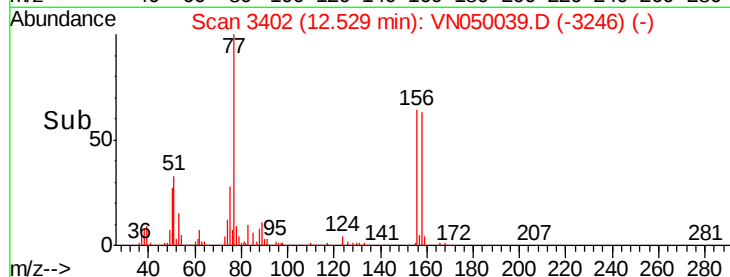
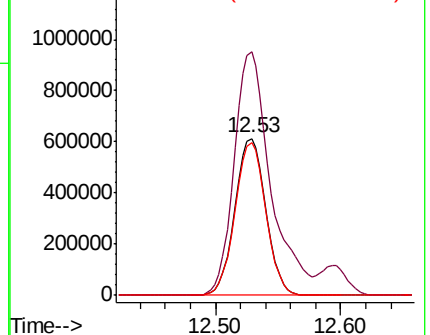
7/26/2018 3:53:55 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 100.84 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050039.D

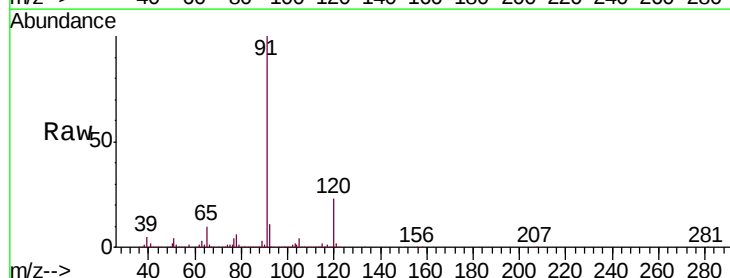
Acq: 25 Jul 2018 9:46

Tgt Ion: 91 Resp: 4741985

Ion Ratio Lower Upper

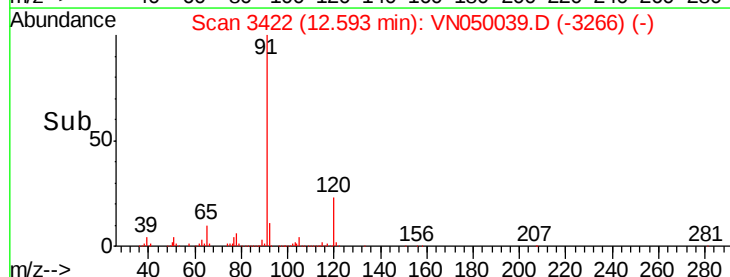
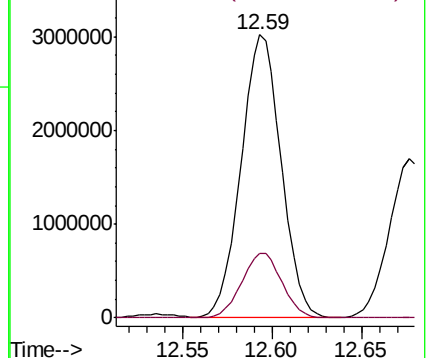
91 100

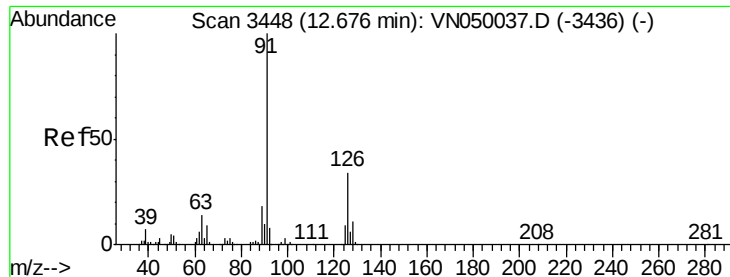
120 23.0 0.0 46.4



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 98.56 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 2773089

Ion Ratio Lower Upper

91 100

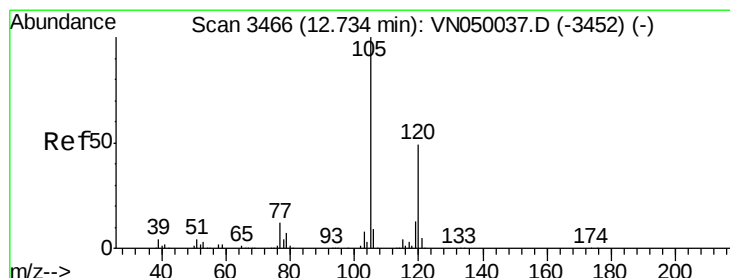
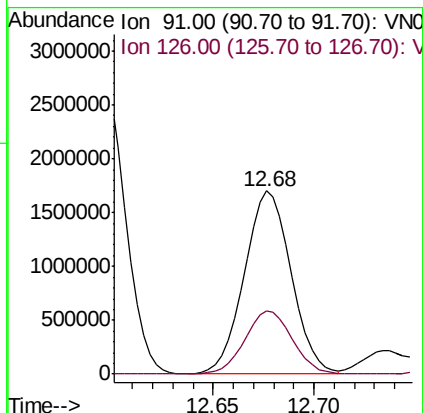
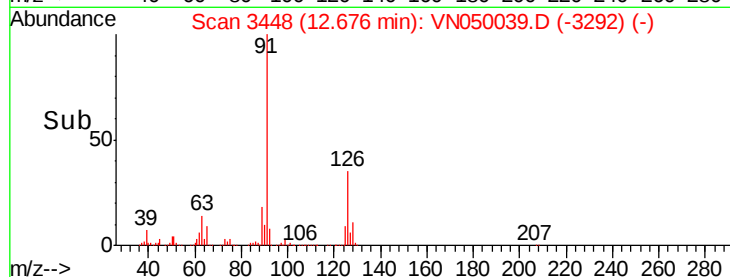
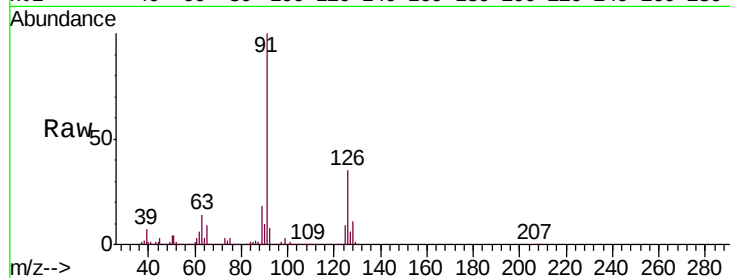
126 34.8 0.0 68.6

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#76

1,3,5-Trimethylbenzene

Concen: 98.89 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050039.D

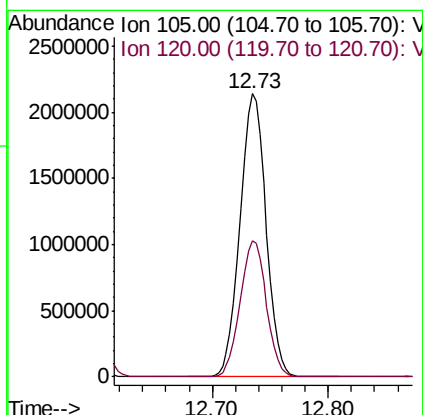
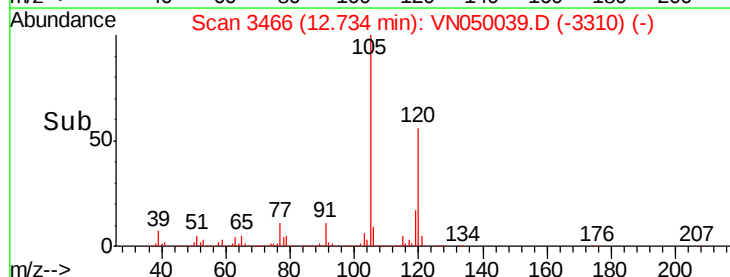
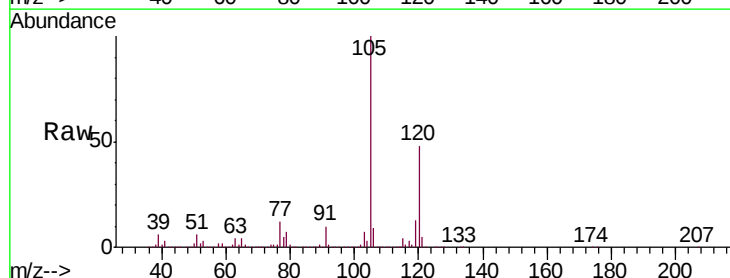
Acq: 25 Jul 2018 9:46

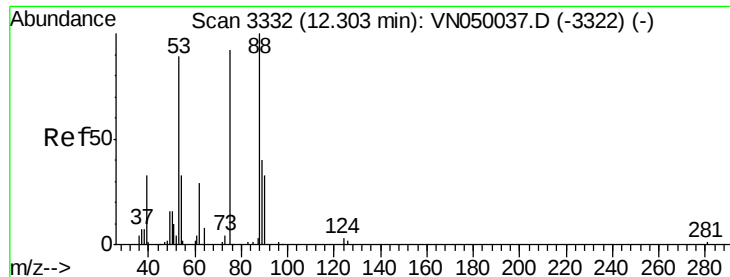
Tgt Ion: 105 Resp: 3327959

Ion Ratio Lower Upper

105 100

120 48.4 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 118.12 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 329578

Ion Ratio Lower Upper

75 100

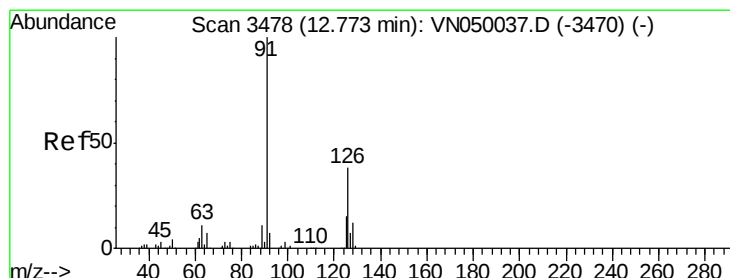
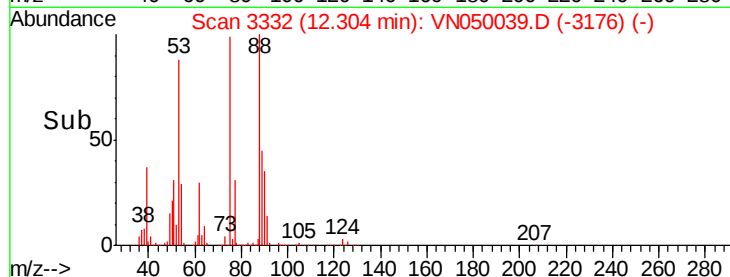
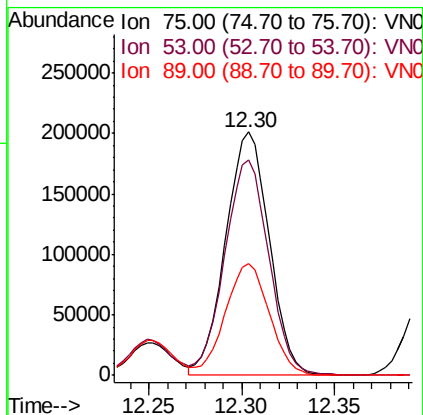
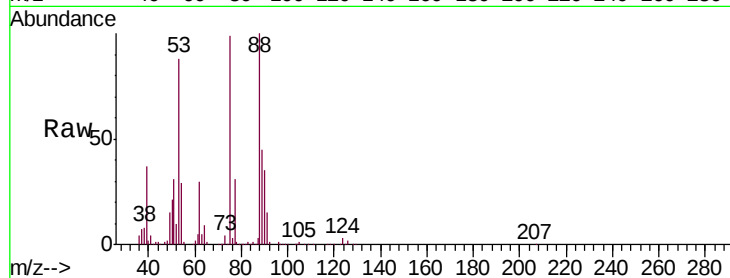
53 88.2 44.6 134.0

89 45.7 20.7 62.1

Manual Integrations
APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#78

4-Chlorotoluene

Concen: 100.81 ug/l

RT: 12.78 min Scan# 3479

Delta R.T. 0.00 min

Lab File: VN050039.D

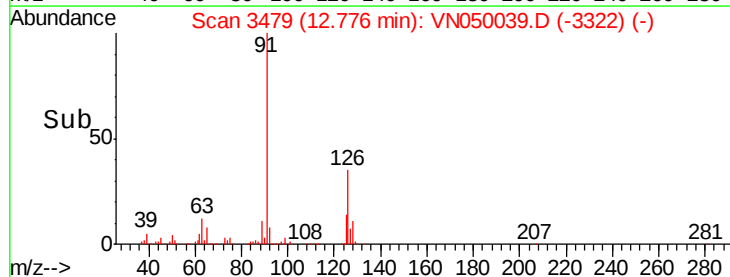
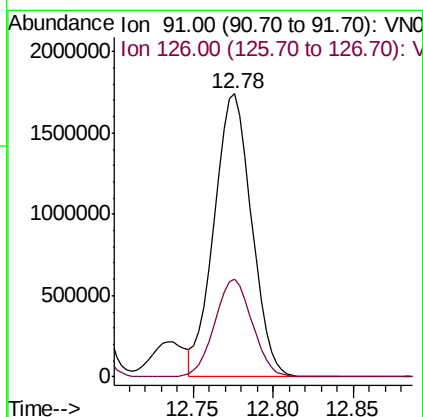
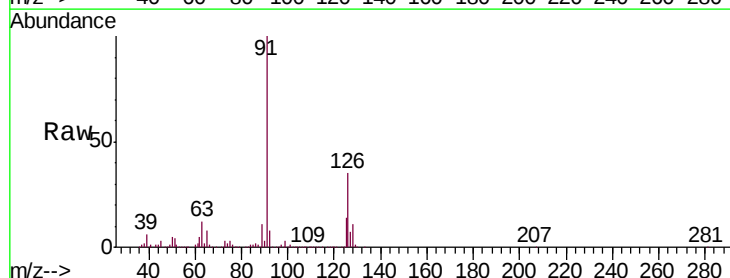
Acq: 25 Jul 2018 9:46

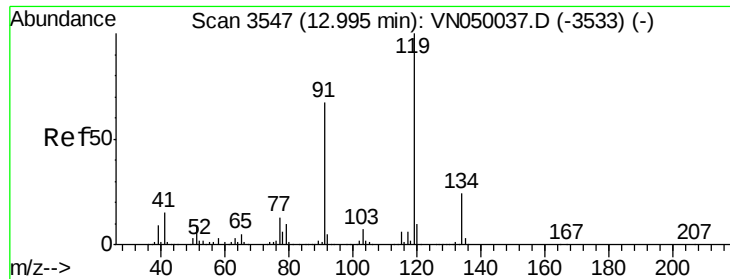
Tgt Ion: 91 Resp: 2806087

Ion Ratio Lower Upper

91 100

126 34.5 0.0 68.4





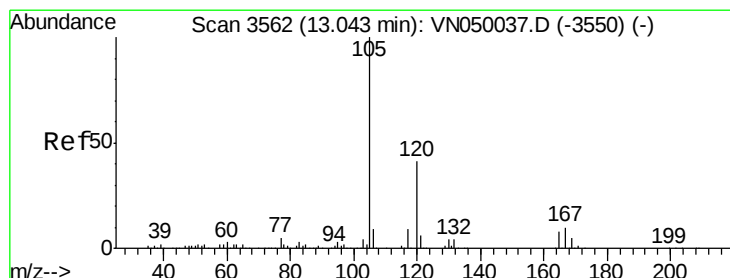
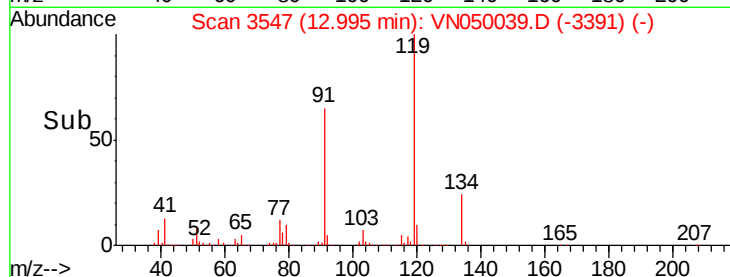
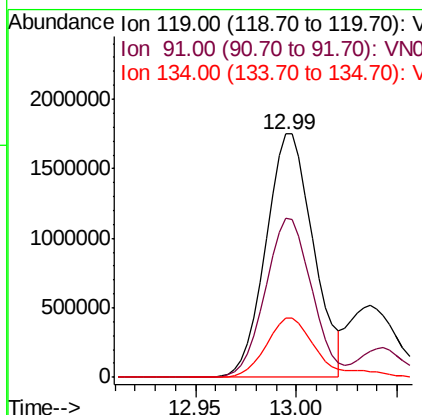
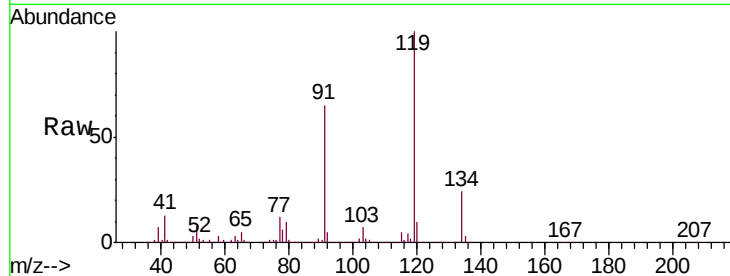
#79
tert-butylbenzene
Concen: 102.42 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.0	0.0	126.8
134	24.5	0.0	47.4

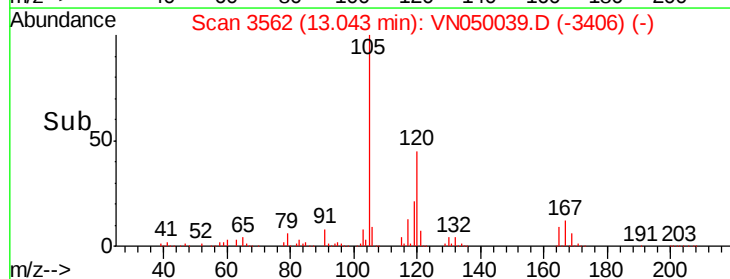
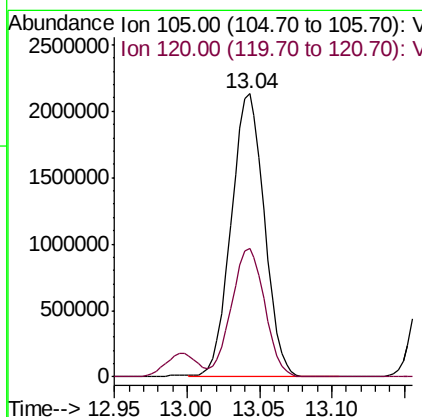
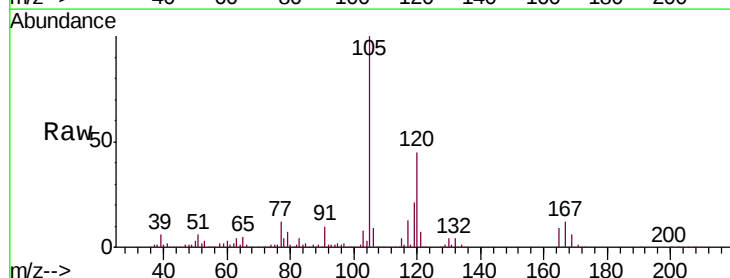
Manual Integrations
APPROVED

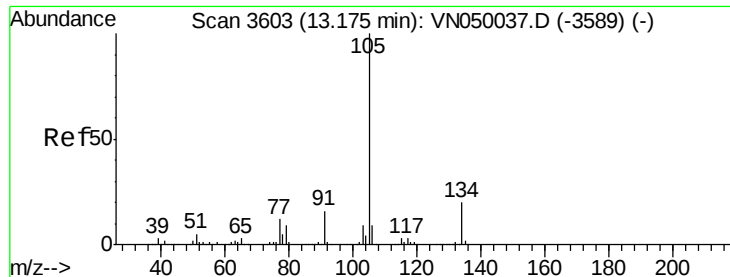
MMDadoda
7/26/2018 3:53:55 PM



#80
1,2,4-Trimethylbenzene
Concen: 99.21 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	0.0	90.6





#81

sec-Butylbenzene

Concen: 99.76 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 3852568

Ion Ratio Lower Upper

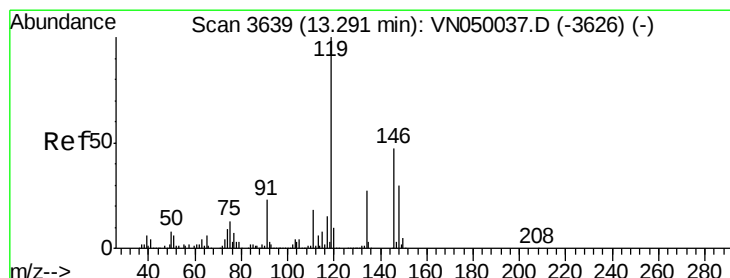
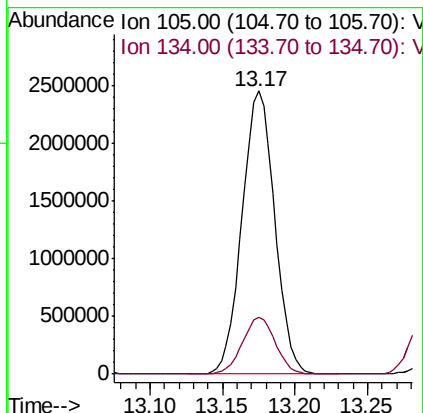
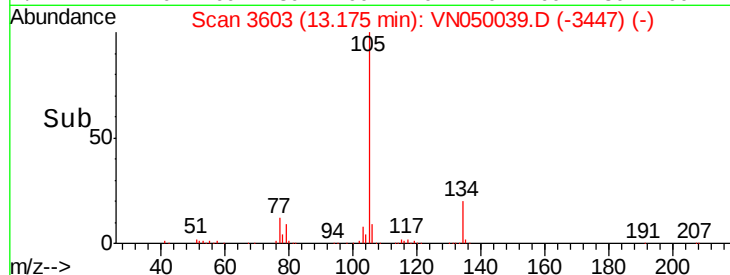
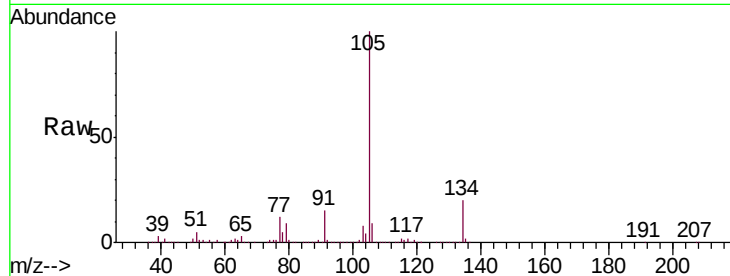
105 100

134 20.2 0.0 40.6

Manual Integrations
APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#82

p-Isopropyltoluene

Concen: 103.33 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

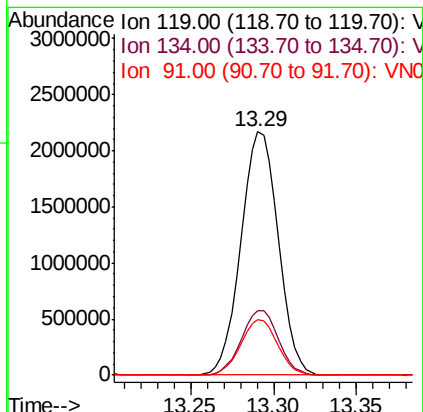
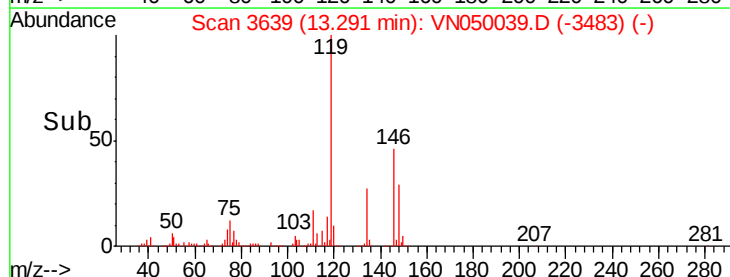
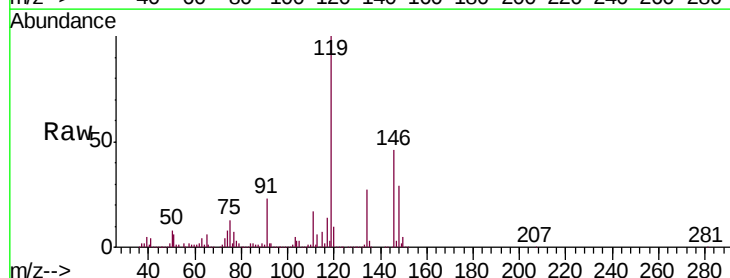
Tgt Ion:119 Resp: 3396574

Ion Ratio Lower Upper

119 100

134 26.6 0.0 52.2

91 22.5 0.0 45.6





#83

1,3-Dichlorobenzene

Concen: 100.74 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 1851717

Ion Ratio Lower Upper

146 100

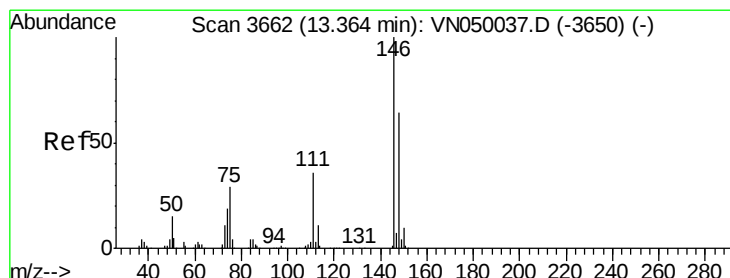
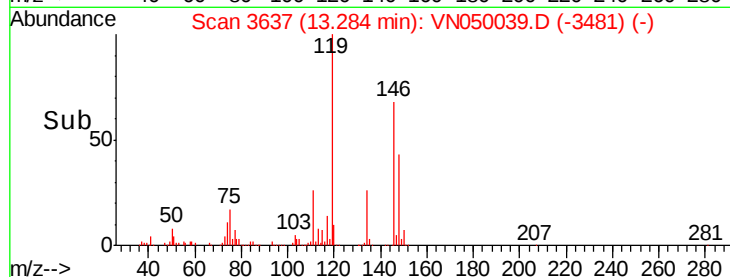
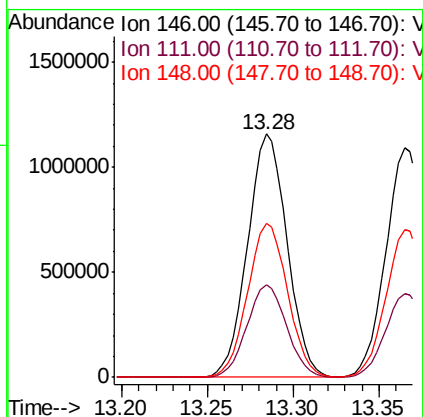
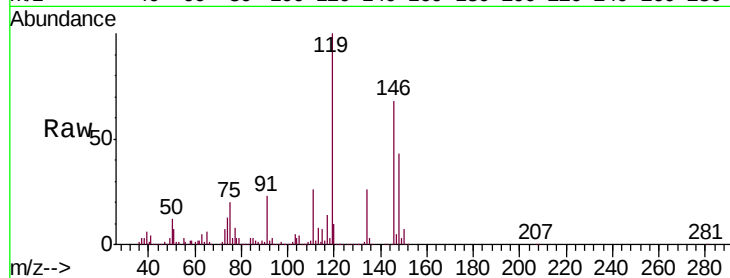
111 38.1 19.1 57.1

148 63.7 31.9 95.9

Manual Integrations
APPROVED

MMDadoda

7/26/2018 3:53:55 PM



#84

1,4-Dichlorobenzene

Concen: 102.80 ug/l

RT: 13.36 min Scan# 3662

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

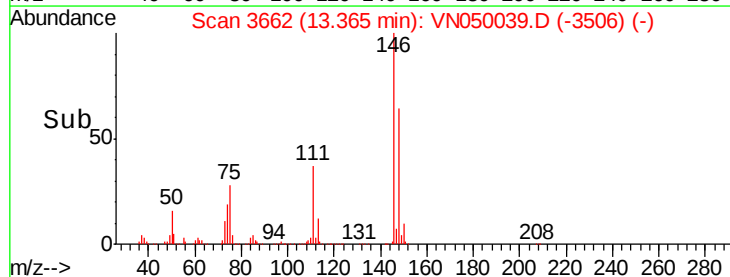
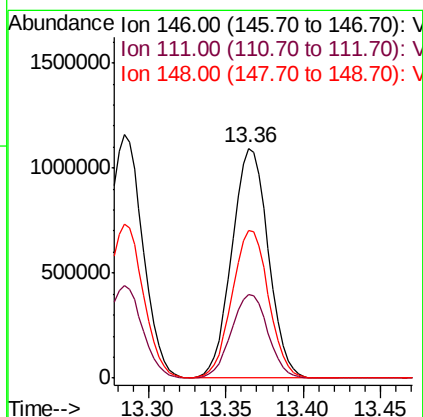
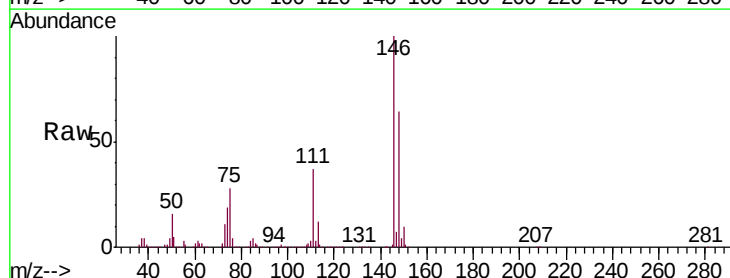
Tgt Ion:146 Resp: 1786660

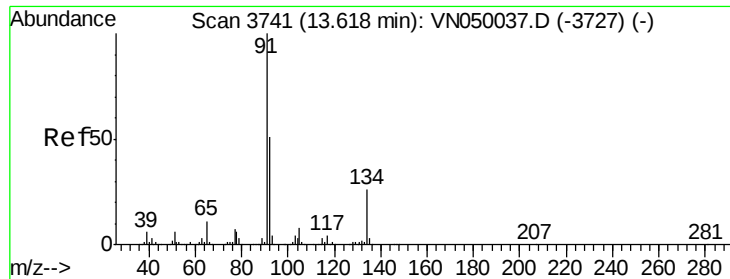
Ion Ratio Lower Upper

146 100

111 36.7 17.9 53.8

148 64.5 32.4 97.0





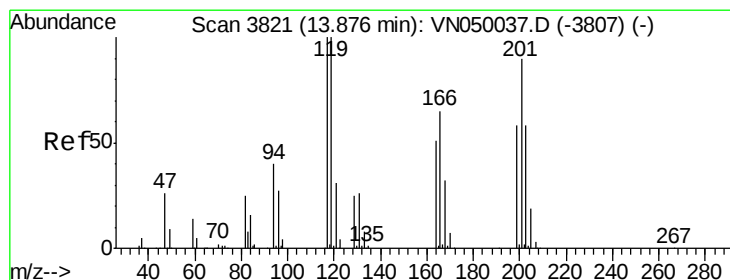
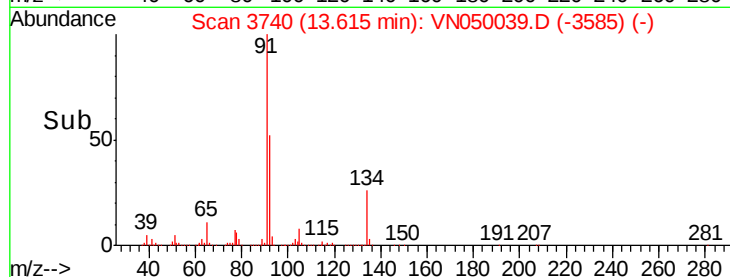
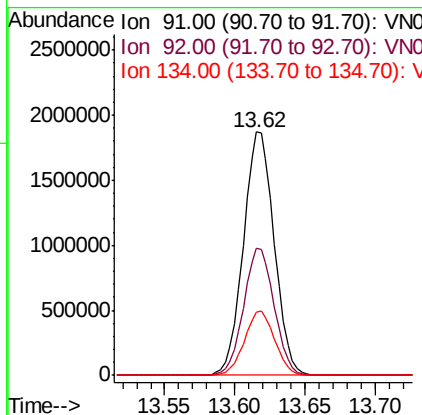
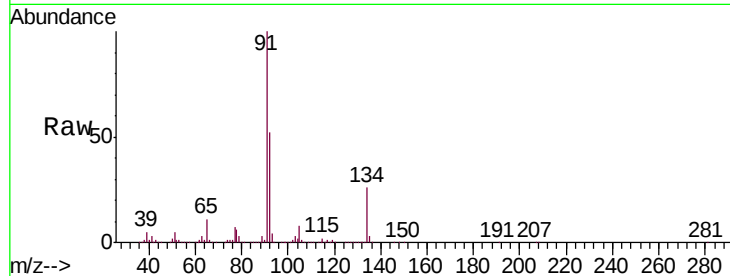
#85
n-Butylbenzene
Concen: 111.71 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.8	0.0	102.8
134	25.9	0.0	51.0

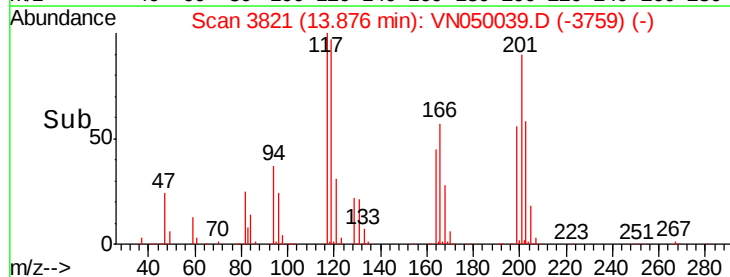
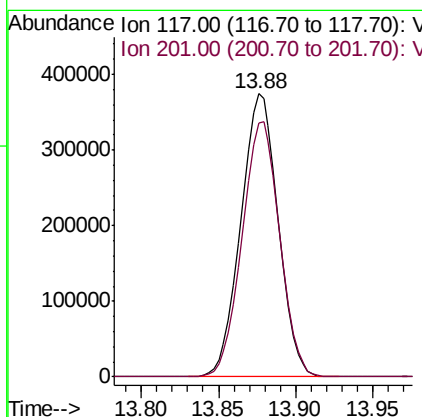
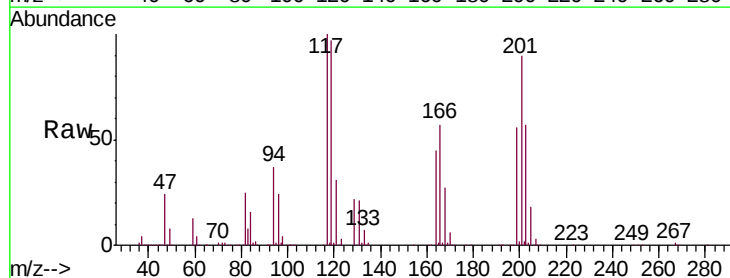
Manual Integrations
APPROVED

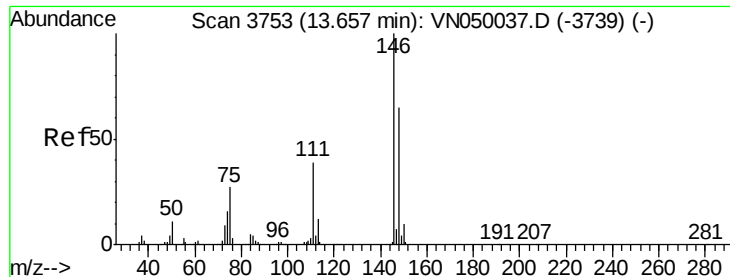
MMDadoda
7/26/2018 3:53:55 PM



#86
Hexachloroethane
Concen: 96.93 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050039.D
Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.7	46.6	139.7





#87

1,2-Dichlorobenzene

Concen: 97.61 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:146 Resp: 1795740

Ion Ratio Lower Upper

146 100

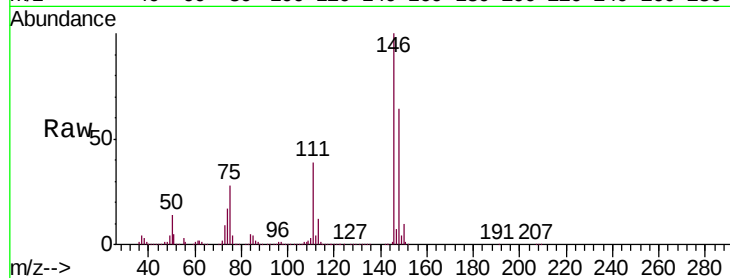
111 39.3 19.8 59.3

148 64.1 31.8 95.3

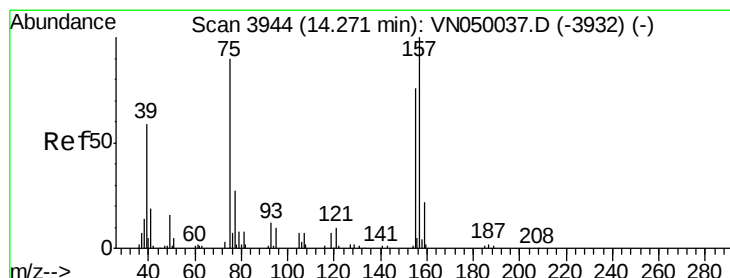
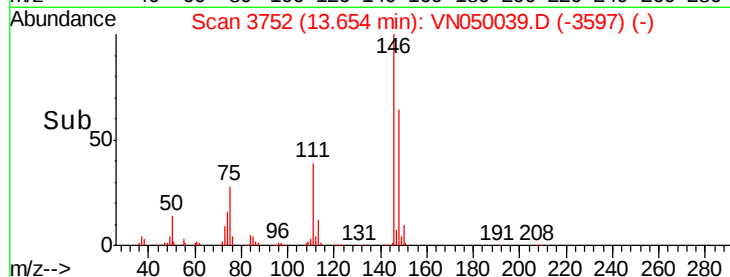
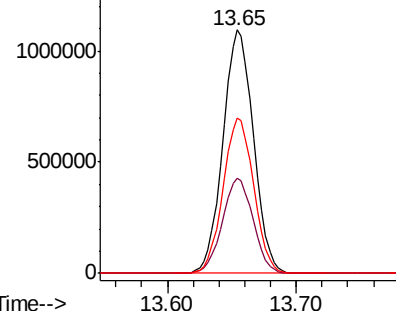
Manual Integrations
APPROVED

MMDadoda

7/26/2018 3:53:55 PM



Abundance Ion 146.00 (145.70 to 146.70): V
1500000
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 102.78 ug/l

RT: 14.27 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

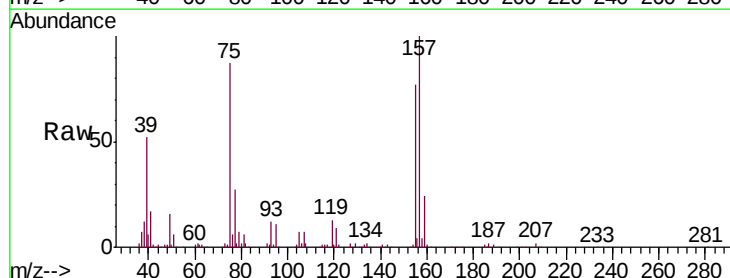
Tgt Ion: 75 Resp: 170542

Ion Ratio Lower Upper

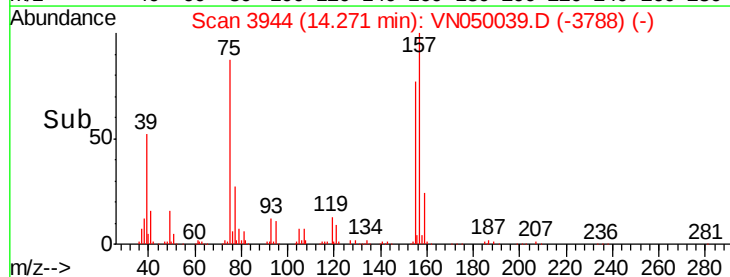
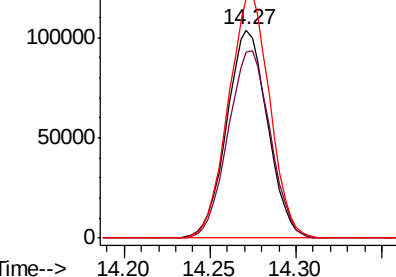
75 100

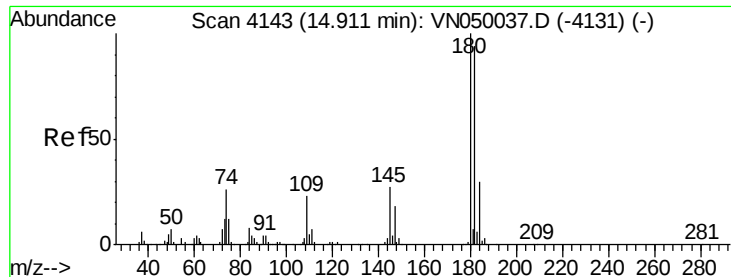
155 92.8 73.0 109.6

157 118.2 94.9 142.3



Abundance Ion 75.00 (74.70 to 75.70): VN
150000
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





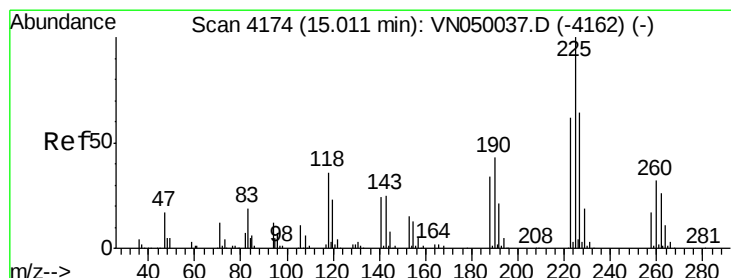
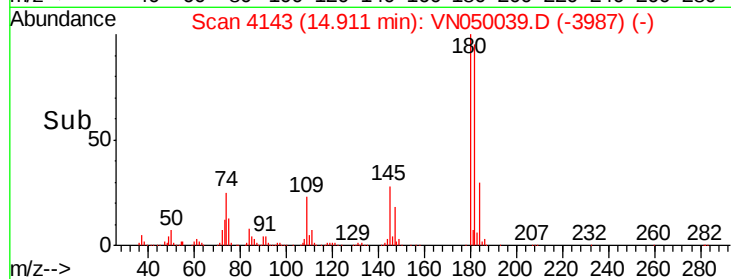
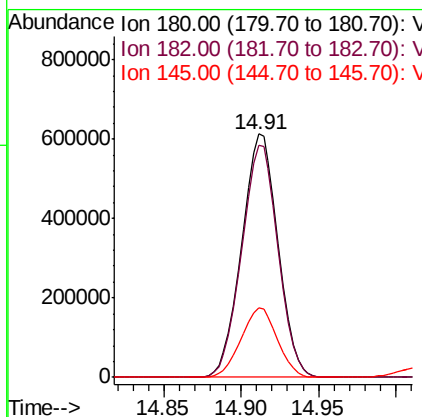
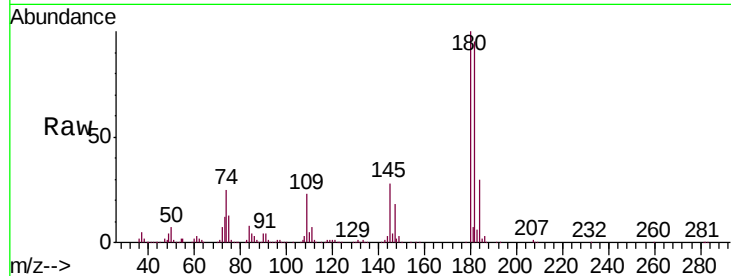
#89
 1,2,4-Trichlorobenzene
 Concen: 125.13 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	999920		
182	95.6	76.7	115.1	
145	28.4	23.4	35.0	

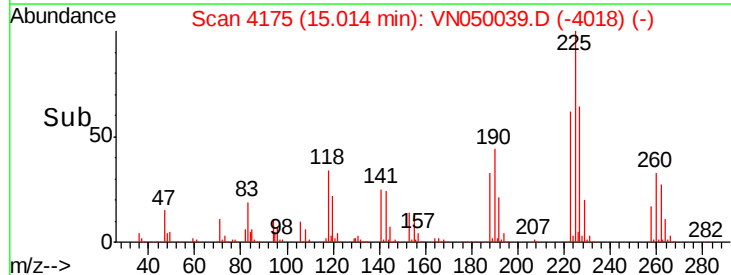
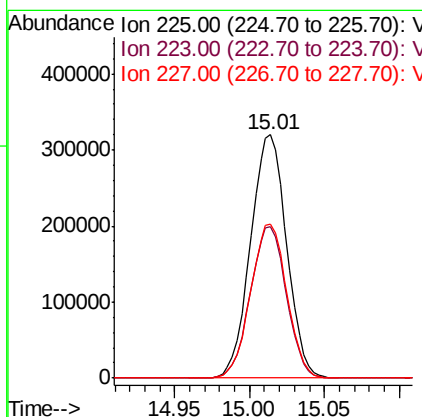
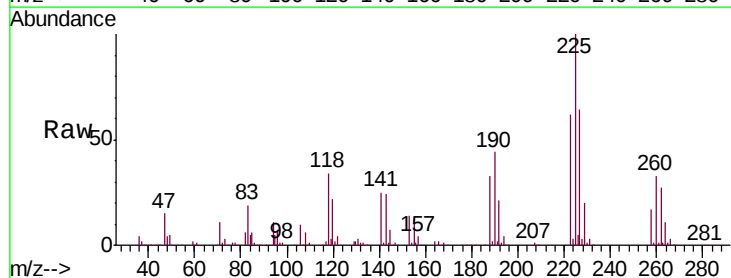
Manual Integrations
 APPROVED

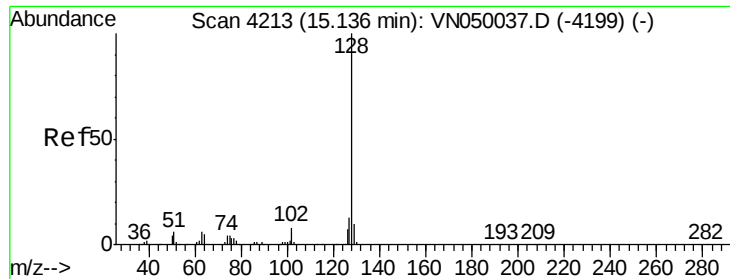
MMDadoda
 7/26/2018 3:53:55 PM



#90
 Hexachlorobutadiene
 Concen: 89.56 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050039.D
 Acq: 25 Jul 2018 9:46

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	535620		
223	62.2	0.0	124.4	
227	63.6	0.0	133.0	





#91

Naphthalene

Concen: 151.91 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:128 Resp: 2387775

Ion Ratio Lower Upper

128 100

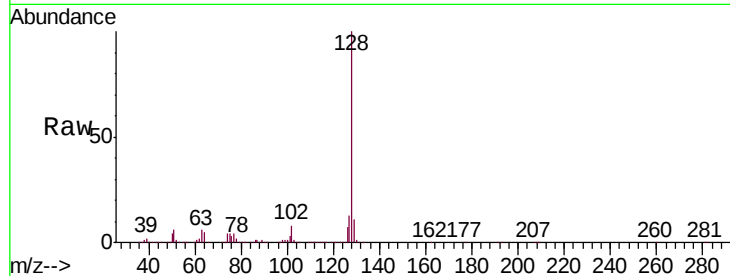
127 13.1 10.2 15.4

129 10.8 9.0 13.4

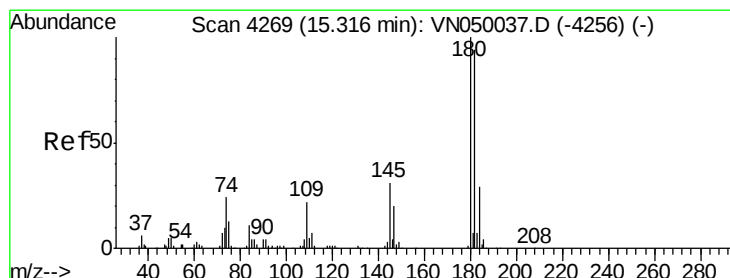
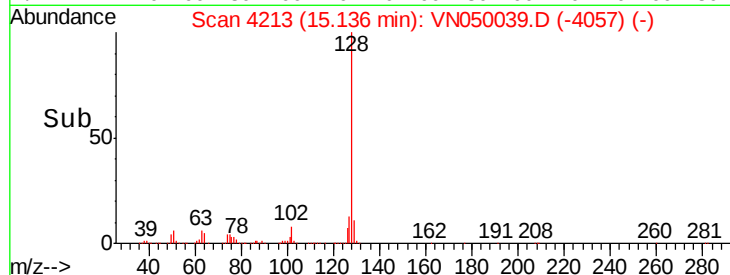
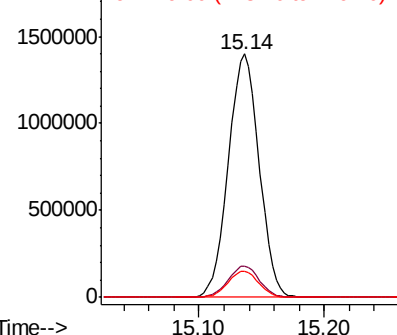
Manual Integrations
APPROVED

MMDadoda

7/26/2018 3:53:55 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 116.48 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050039.D

Acq: 25 Jul 2018 9:46

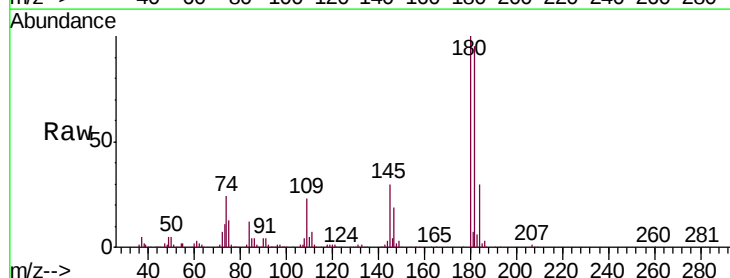
Tgt Ion:180 Resp: 978670

Ion Ratio Lower Upper

180 100

182 95.4 0.0 188.8

145 30.5 0.0 60.8



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

