

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101718\
 Data File : VN051900.D
 Acq On : 17 Oct 2018 9:46
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 3:29:15 PM

Quant Time: Oct 19 04:51:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 19 04:38:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	876480	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1291574	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1140306	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	501138	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	164028	20.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.38%	
35) Dibromofluoromethane	7.59	113	162731	19.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.64%	
50) Toluene-d8	10.09	98	586850	19.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.28%	
62) 4-Bromofluorobenzene	12.40	95	186221	18.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	104763	19.75	ug/l	98
3) Chloromethane	2.06	50	106332	20.52	ug/l	100
4) Vinyl Chloride	2.18	62	155342	19.85	ug/l	99
5) Bromomethane	2.57	94	138097	18.53	ug/l	100
6) Chloroethane	2.70	64	118446	20.85	ug/l	98
7) Trichlorofluoromethane	3.01	101	253449	21.01	ug/l	99
8) Diethyl Ether	3.41	74	73557	20.82	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	143582	20.75	ug/l	98
10) Methyl Iodide	3.95	142	162557	19.24	ug/l	99
11) Tert butyl alcohol	4.79	59	46878	109.26	ug/l #	85
12) 1,1-Dichloroethene	3.74	96	128988	20.45	ug/l	97
13) Acrolein	3.61	56	34792	97.73	ug/l	100
14) Allyl chloride	4.33	41	144494	21.82	ug/l	97
15) Acrylonitrile	4.99	53	183870	106.95	ug/l	97
16) Acetone	3.82	43	142214	98.84	ug/l	96
17) Carbon Disulfide	4.06	76	295386	18.78	ug/l	99
18) Methyl Acetate	4.33	43	90905	18.95	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	371969	20.46	ug/l	93
20) Methylene Chloride	4.55	84	149047	20.38	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	143611	19.81	ug/l	97
22) Diisopropyl ether	5.96	45	332791	20.90	ug/l	95
23) Vinyl Acetate	5.90	43	1142901	104.26	ug/l	100
24) 1,1-Dichloroethane	5.85	63	239947	20.81	ug/l	99
25) 2-Butanone	6.84	43	210849	102.54	ug/l	98
26) 2,2-Dichloropropane	6.83	77	228523	20.96	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	174384	20.70	ug/l	100
28) Bromochloromethane	7.20	49	96333	20.57	ug/l	98
29) Tetrahydrofuran	7.22	42	128741	102.50	ug/l	99
30) Chloroform	7.37	83	285914	20.73	ug/l	100
31) Cyclohexane	7.66	56	203452	16.23	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	261152	20.30	ug/l	99
36) 1,1-Dichloropropene	7.80	75	194989	19.45	ug/l	99
37) Ethyl Acetate	6.93	43	96980	22.04	ug/l	96
38) Carbon Tetrachloride	7.78	117	233119	19.75	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101718\
 Data File : VN051900.D
 Acq On : 17 Oct 2018 9:46
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 3:29:15 PM

Quant Time: Oct 19 04:51:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 19 04:38:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	245451	19.77	ug/l	98
40) Benzene	8.04	78	593967	20.28	ug/l	99
41) Methacrylonitrile	7.18	41	42825	18.82	ug/l #	67
42) 1,2-Dichloroethane	8.13	62	191558	20.42	ug/l	100
43) Isopropyl Acetate	8.17	43	185095	20.81	ug/l #	88
44) Trichloroethene	8.84	130	183904	20.01	ug/l	99
45) 1,2-Dichloropropane	9.12	63	137339	20.28	ug/l	98
46) Dibromomethane	9.21	93	104682	20.28	ug/l	99
47) Bromodichloromethane	9.40	83	212230	20.51	ug/l	99
48) Methyl methacrylate	9.20	41	81725	20.20	ug/l	96
49) 1,4-Dioxane	9.20	88	31282	406.99	ug/l	100
51) 4-Methyl-2-Pentanone	9.99	43	494207	105.90	ug/l	100
52) Toluene	10.16	92	397130	20.27	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	195889	19.98	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	222981	20.40	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	147918	20.61	ug/l	98
56) Ethyl methacrylate	10.43	69	161096	20.07	ug/l	98
57) 1,3-Dichloropropane	10.71	76	227371	20.80	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	341592	100.47	ug/l	97
59) 2-Hexanone	10.75	43	317061	101.33	ug/l	99
60) Dibromochloromethane	10.90	129	165559	19.65	ug/l	100
61) 1,2-Dibromoethane	11.01	107	150323	19.97	ug/l	98
64) Tetrachloroethene	10.63	164	189550	20.71	ug/l	98
65) Chlorobenzene	11.43	112	454482	19.94	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	171107	20.16	ug/l	99
67) Ethyl Benzene	11.51	91	755009	20.22	ug/l	99
68) m/p-Xylenes	11.62	106	604072	40.28	ug/l	97
69) o-Xylene	11.95	106	296660	20.30	ug/l	96
70) Styrene	11.97	104	448359	19.94	ug/l	99
71) Bromoform	12.13	173	100185	18.96	ug/l #	98
73) Isopropylbenzene	12.25	105	804453	20.74	ug/l	99
74) N-amyl acetate	12.07	43	135727	20.35	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	166718	21.26	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	131223m	20.71	ug/l	
77) Bromobenzene	12.53	156	194761	19.73	ug/l	94
78) n-propylbenzene	12.59	91	836274	20.71	ug/l	99
79) 2-Chlorotoluene	12.67	91	501620	20.41	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	647794	20.66	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	35383	21.02	ug/l	94
82) 4-Chlorotoluene	12.77	91	479628	20.32	ug/l	99
83) tert-Butylbenzene	12.99	119	604715	20.52	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	655444	21.26	ug/l	98
85) sec-Butylbenzene	13.17	105	776699	20.73	ug/l	99
86) p-Isopropyltoluene	13.29	119	681808	21.00	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	332816	20.00	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	319646	19.55	ug/l	98
89) n-Butylbenzene	13.62	91	491438	20.87	ug/l	100
90) Hexachloroethane	13.87	117	109932	20.24	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	327313	20.31	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	23395	22.27	ug/l	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101718\
Data File : VN051900.D
Acq On : 17 Oct 2018 9:46
Operator : MD\SY
Sample : VSTDICC020
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

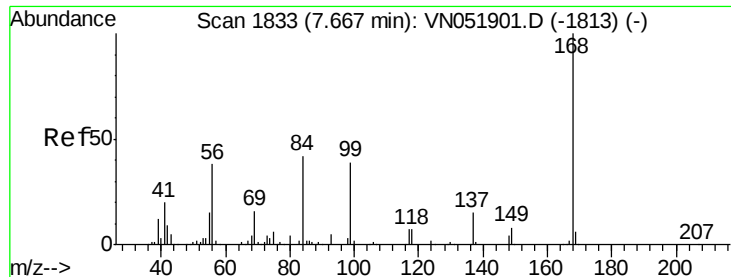
Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM

Quant Time: Oct 19 04:51:48 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 19 04:38:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	125222	17.94	ug/l	98
94) Hexachlorobutadiene	15.01	225	105713	20.72	ug/l	98
95) Naphthalene	15.13	128	242126	17.44	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	133489	19.29	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:168 Resp: 876480

Ion Ratio Lower Upper

168 100

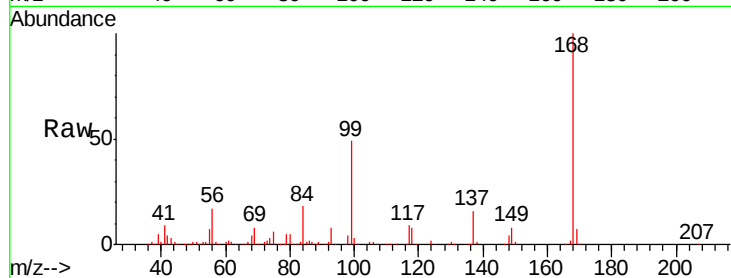
99 49.2 39.2 58.8

Manual Integrations

APPROVED

MMDadoda

10/19/2018 3:29:15 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

400000

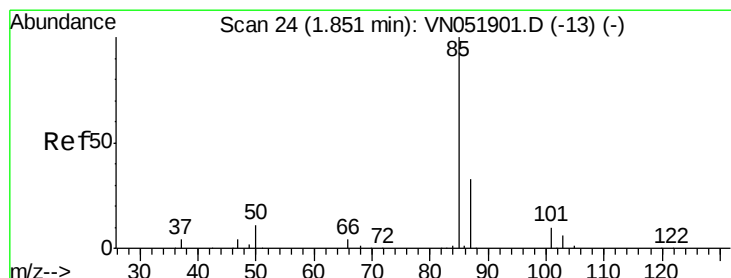
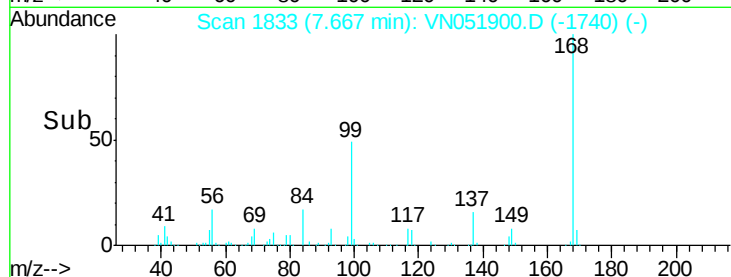
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.75 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN051900.D

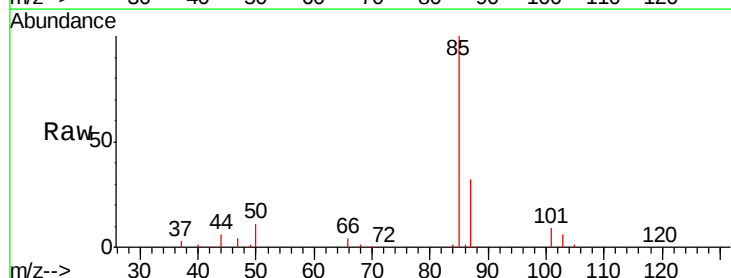
Acq: 17 Oct 2018 9:46

Tgt Ion: 85 Resp: 104763

Ion Ratio Lower Upper

85 100

87 31.9 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

80000

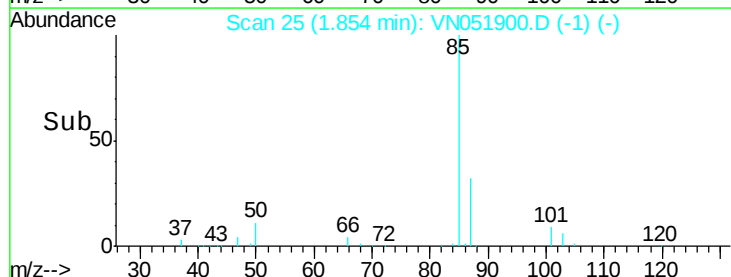
60000

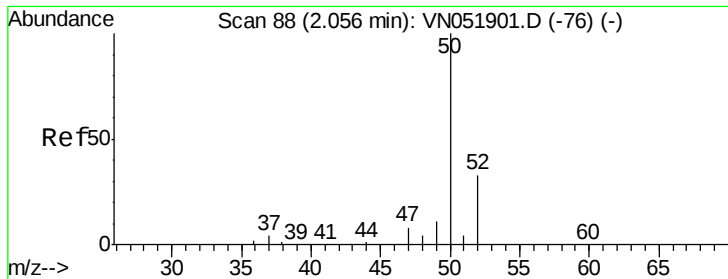
40000

20000

0

Time-->





#3

Chloromethane

Concen: 20.52 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 50 Resp: 106332

Ion Ratio Lower Upper

50 100

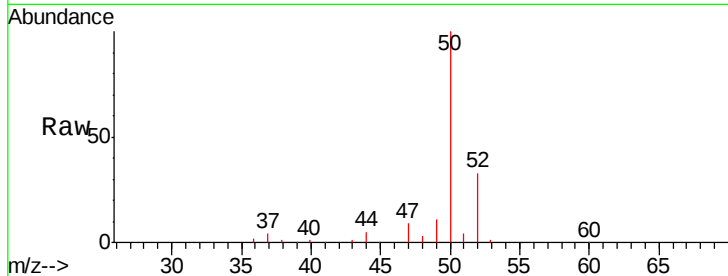
52 32.6 26.3 39.5

Manual Integrations

APPROVED

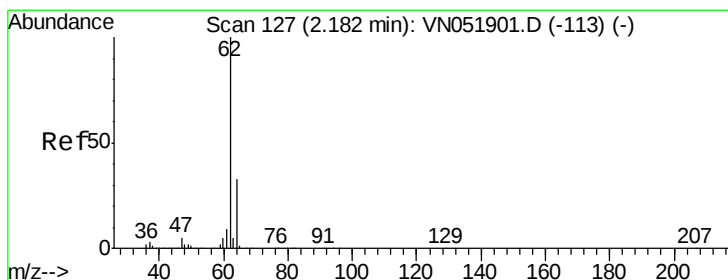
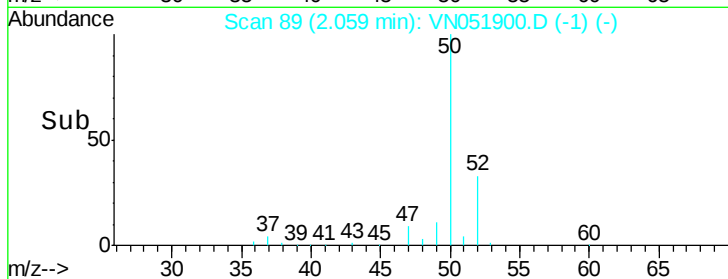
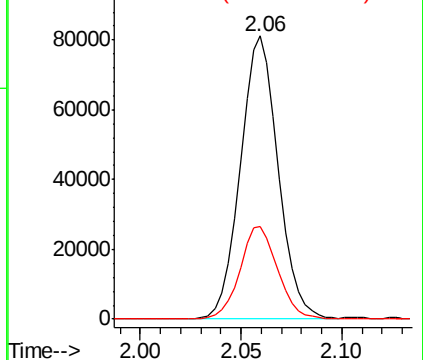
MMDadoda

10/19/2018 3:29:15 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 19.85 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051900.D

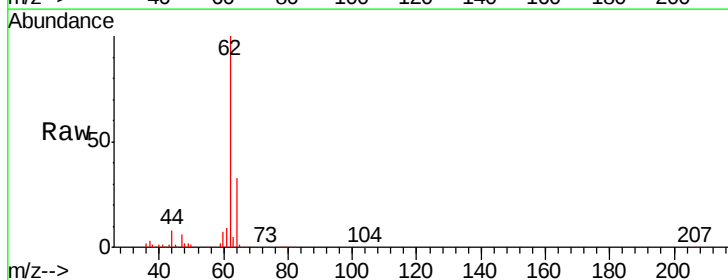
Acq: 17 Oct 2018 9:46

Tgt Ion: 62 Resp: 155342

Ion Ratio Lower Upper

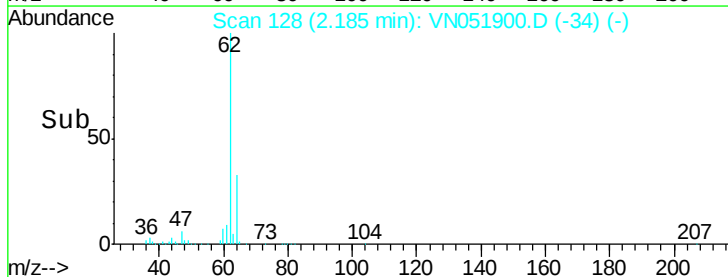
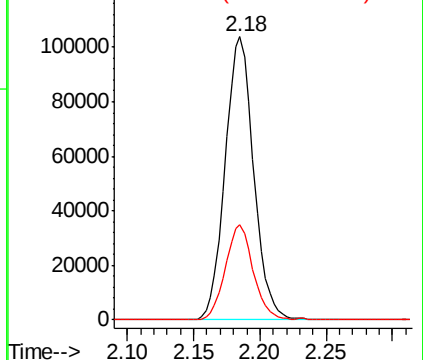
62 100

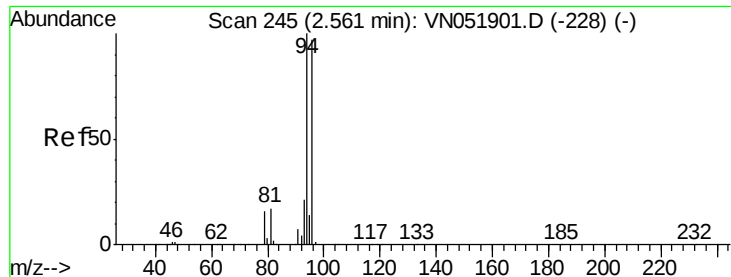
64 33.3 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 18.53 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.01 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 94 Resp: 138097

Ion Ratio Lower Upper

94 100

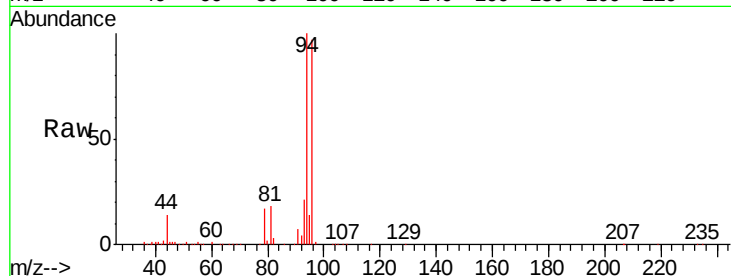
96 96.8 77.5 116.3

Manual Integrations

APPROVED

MMDadoda

10/19/2018 3:29:15 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

80000

60000

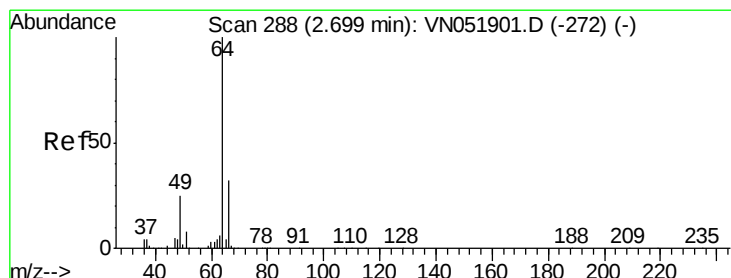
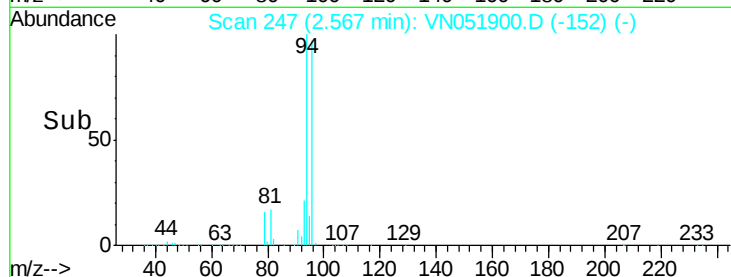
40000

20000

0

Time-->

2.45 2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 20.85 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051900.D

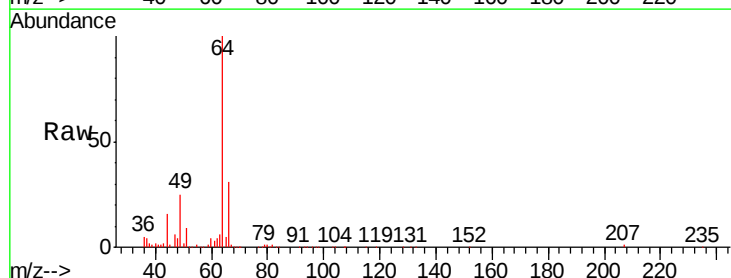
Acq: 17 Oct 2018 9:46

Tgt Ion: 64 Resp: 118446

Ion Ratio Lower Upper

64 100

66 31.4 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

60000

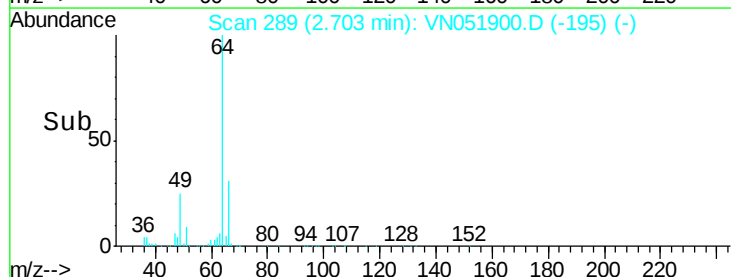
40000

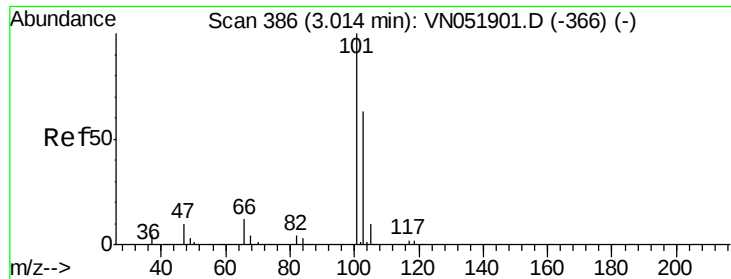
20000

0

Time-->

2.60 2.70 2.80





#7

Trichlorofluoromethane

Concen: 21.01 ug/l

RT: 3.01 min Scan# 386

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 101 Resp: 253449

Ion Ratio Lower Upper

101 100

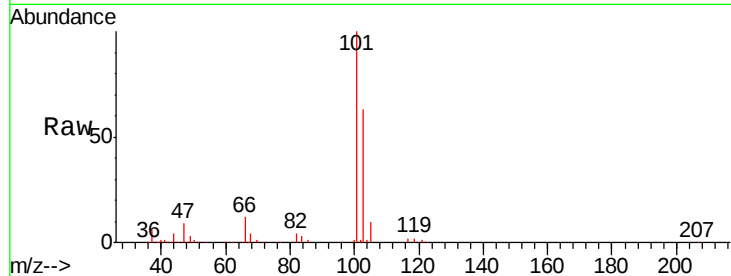
103 62.9 50.8 76.2

Manual Integrations

APPROVED

MMDadoda

10/19/2018 3:29:15 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.01

120000

100000

80000

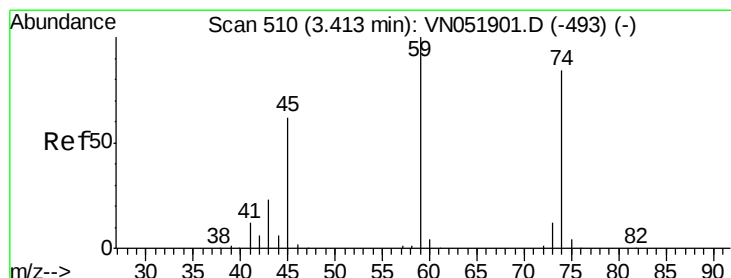
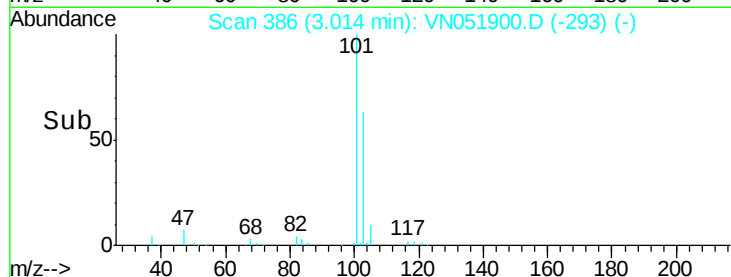
60000

40000

20000

0

Time--> 2.90 3.00 3.10



#8

Diethyl Ether

Concen: 20.82 ug/l

RT: 3.41 min Scan# 510

Delta R.T. -0.00 min

Lab File: VN051900.D

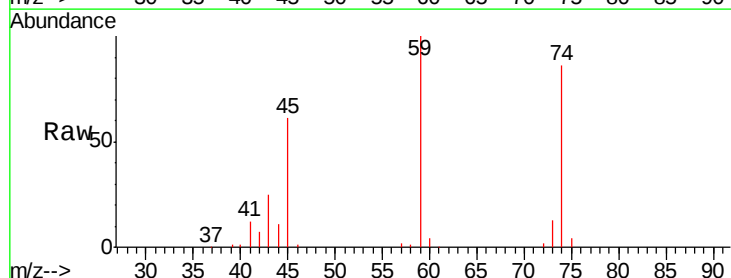
Acq: 17 Oct 2018 9:46

Tgt Ion: 74 Resp: 73557

Ion Ratio Lower Upper

74 100

45 73.8 36.8 110.3



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

40000

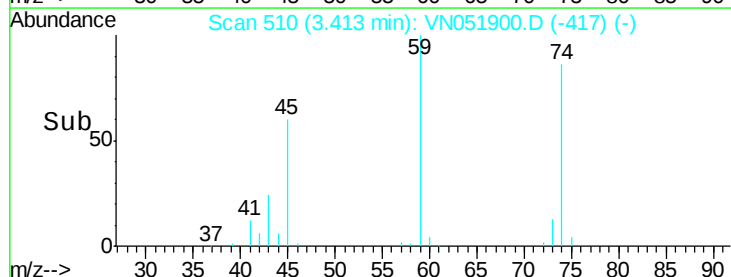
30000

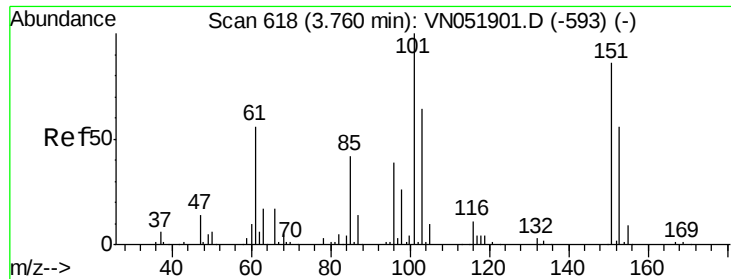
20000

10000

0

Time--> 3.35 3.40 3.45 3.50





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.75 ug/l

RT: 3.76 min Scan# 617

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

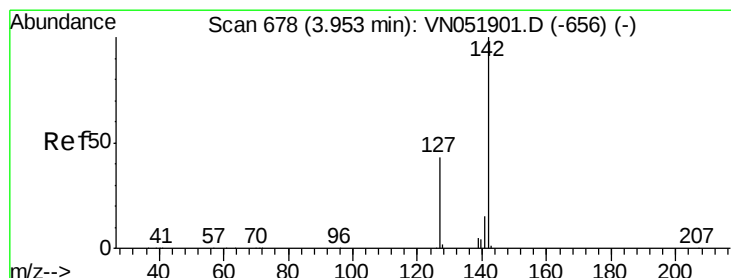
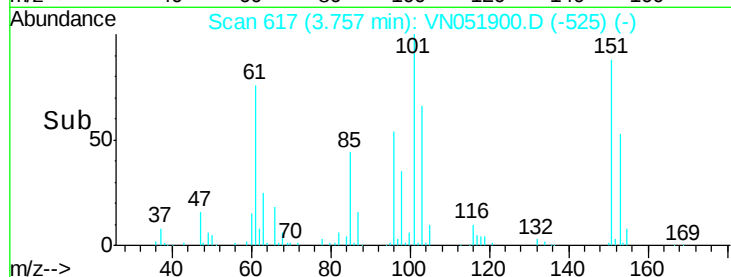
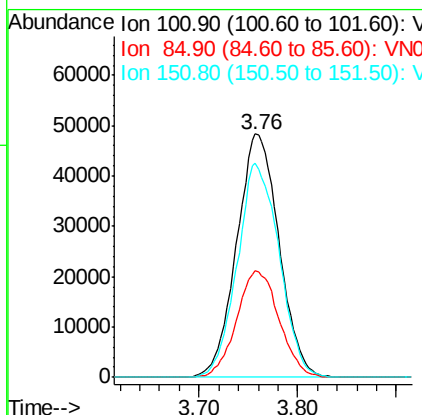
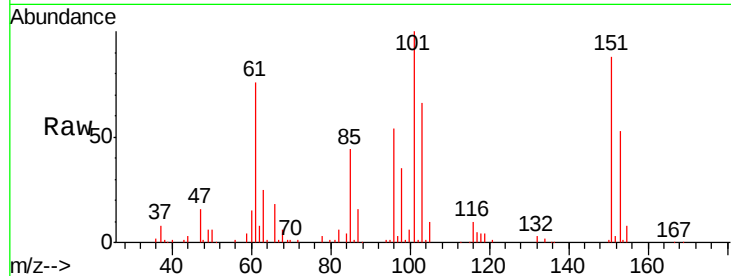
ClientSampleId :

VSTDIC020

Tgt Ion:	101	Resp:	143582
Ion Ratio	Lower	Upper	
101	100		
85	43.9	34.8	52.2
151	87.4	68.0	102.0

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



#10

Methyl Iodide

Concen: 19.24 ug/l

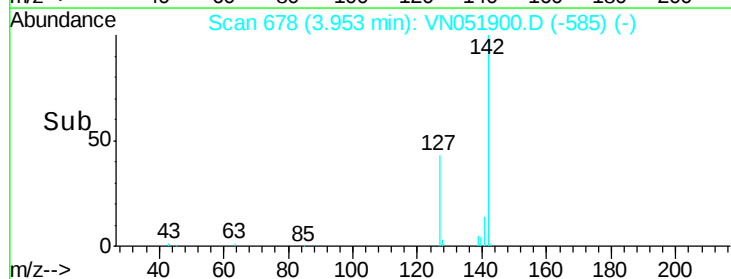
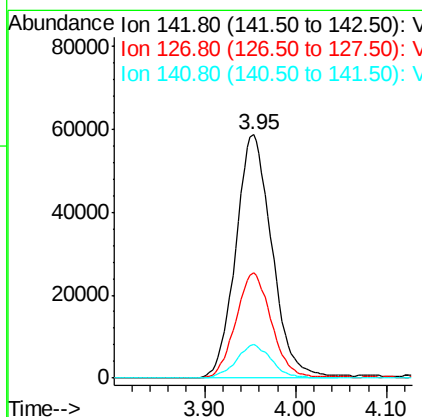
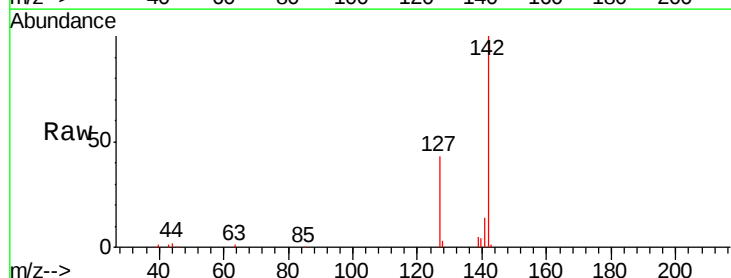
RT: 3.95 min Scan# 678

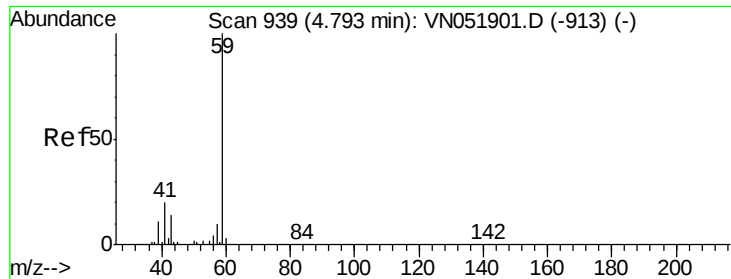
Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Tgt Ion:	142	Resp:	162557
Ion Ratio	Lower	Upper	
142	100		
127	42.7	34.3	51.5
141	13.4	11.1	16.7





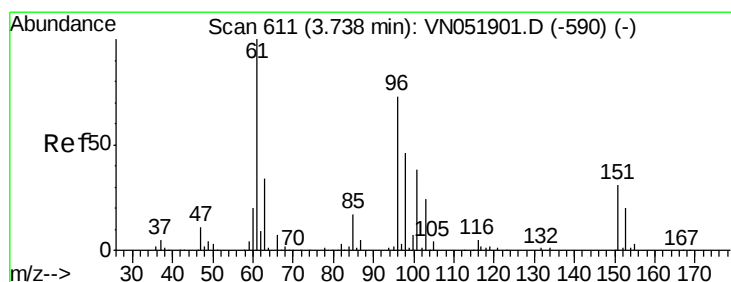
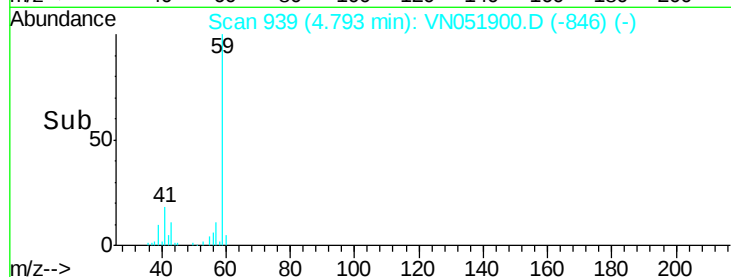
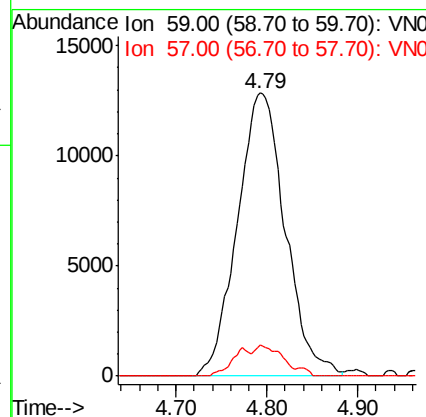
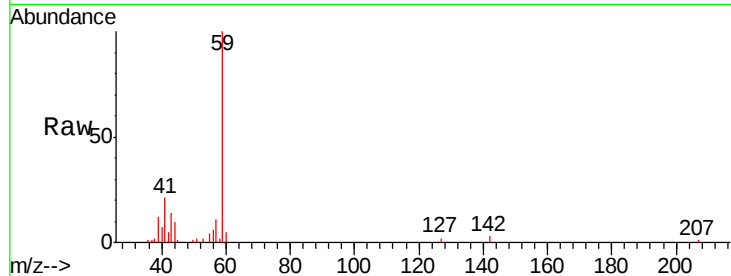
#11
Tert butyl alcohol
Concen: 109.26 ug/l
RT: 4.79 min Scan# 939
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 59 Resp: 46878
Ion Ratio Lower Upper
59 100
57 4.7 8.3 12.5#

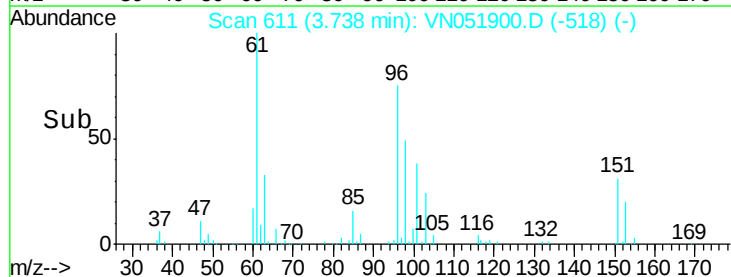
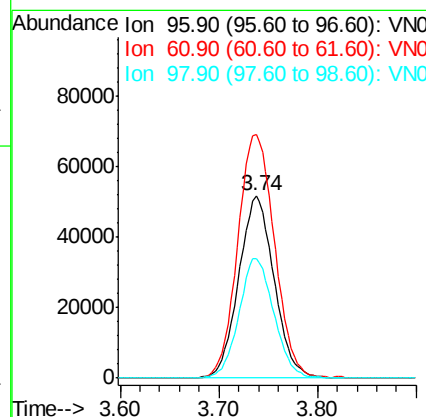
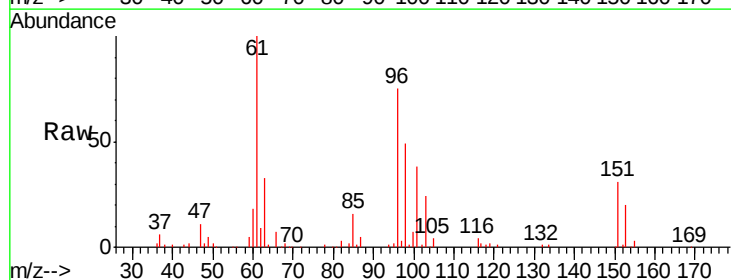
Manual Integrations
APPROVED

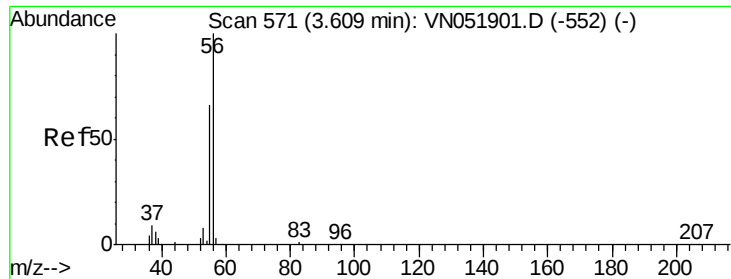
MMDadoda
10/19/2018 3:29:15 PM



#12
1,1-Dichloroethene
Concen: 20.45 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion: 96 Resp: 128988
Ion Ratio Lower Upper
96 100
61 133.3 109.8 164.6
98 65.5 50.9 76.3





#13

Acrolein

Concen: 97.73 ug/l

RT: 3.61 min Scan# 571

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 34792

Ion Ratio Lower Upper

56 100

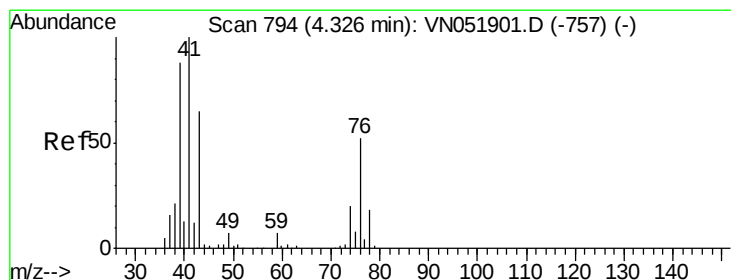
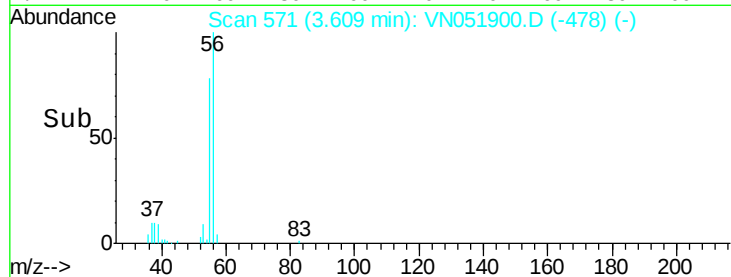
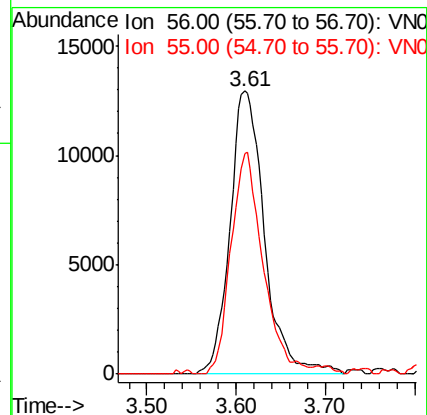
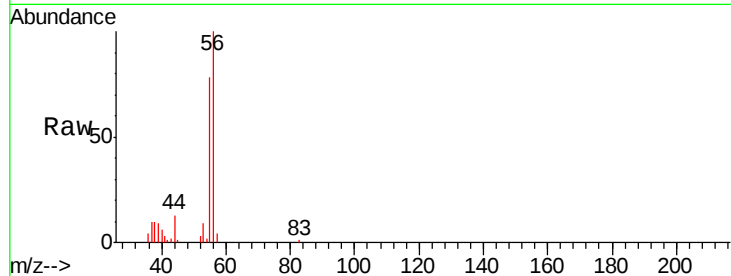
55 71.3 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

10/19/2018 3:29:15 PM



#14

Allyl chloride

Concen: 21.82 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

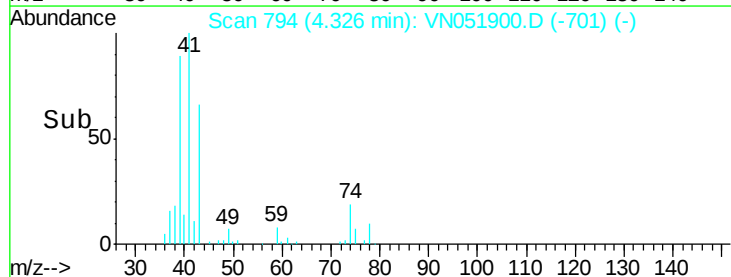
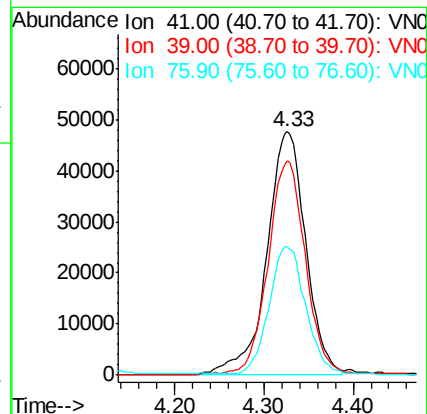
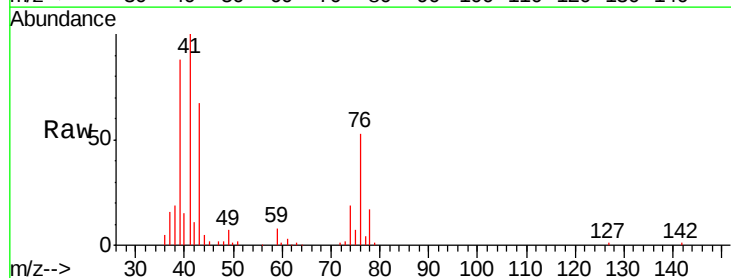
Tgt Ion: 41 Resp: 144494

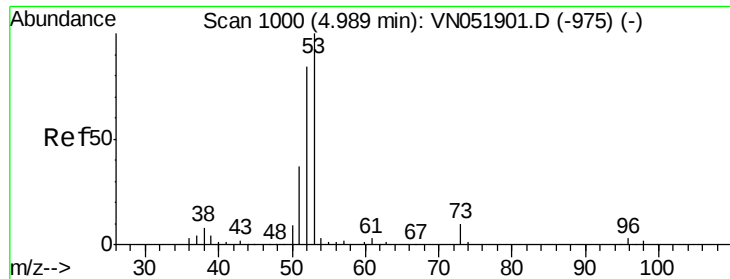
Ion Ratio Lower Upper

41 100

39 85.1 65.4 98.0

76 48.7 39.6 59.4





#15

Acrylonitrile

Concen: 106.95 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

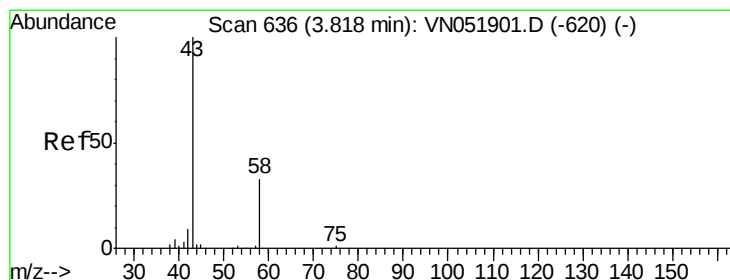
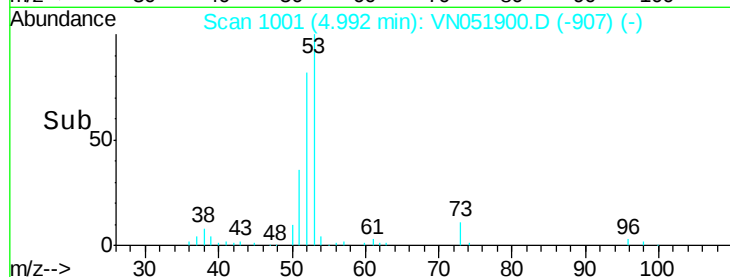
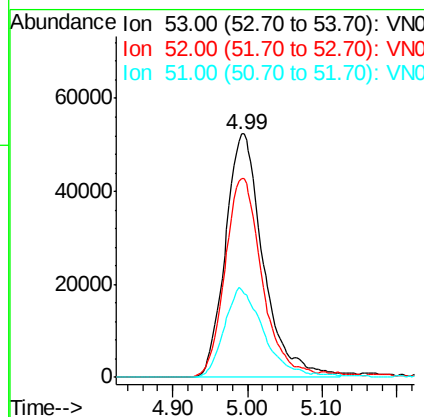
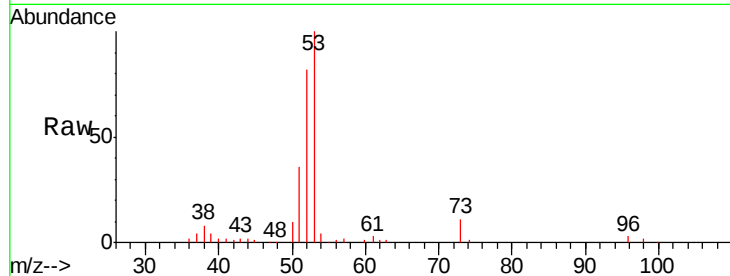
ClientSampleId :

VSTDIC020

Tgt Ion:	53	Resp:	183870
Ion	Ratio	Lower	Upper
53	100		
52	80.1	65.8	98.8
51	38.7	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



#16

Acetone

Concen: 98.84 ug/l

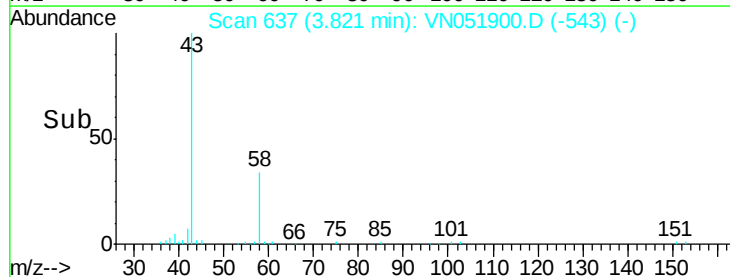
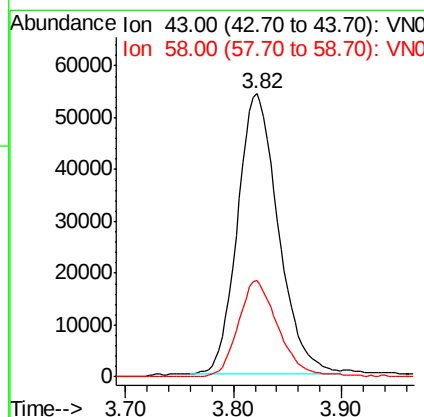
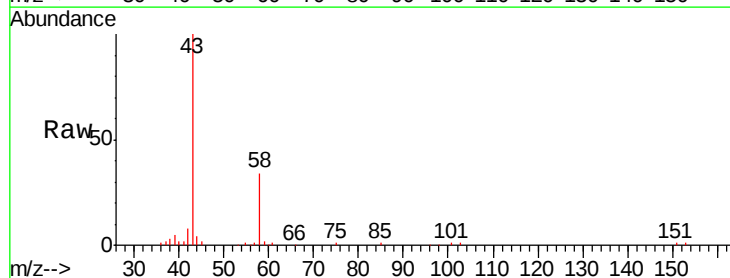
RT: 3.82 min Scan# 637

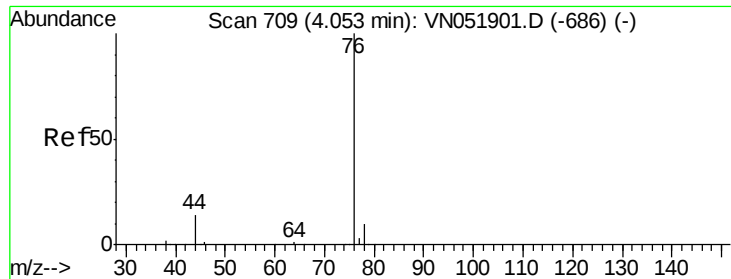
Delta R.T. 0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Tgt Ion:	43	Resp:	142214
Ion	Ratio	Lower	Upper
43	100		
58	34.6	25.9	38.9





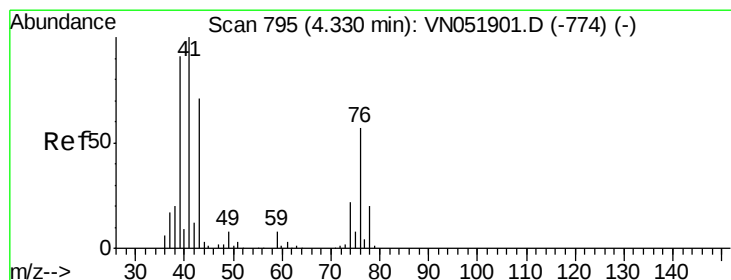
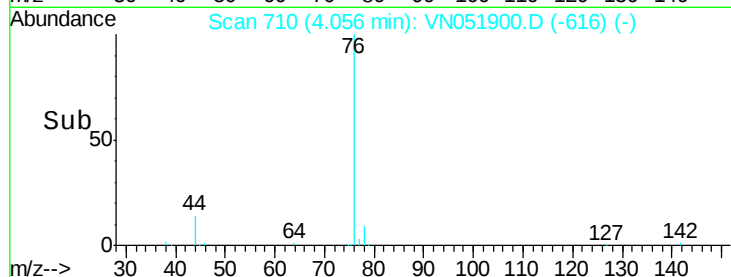
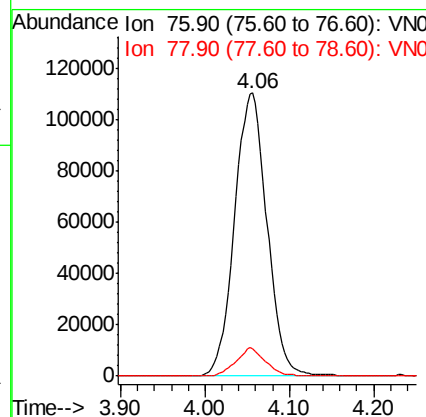
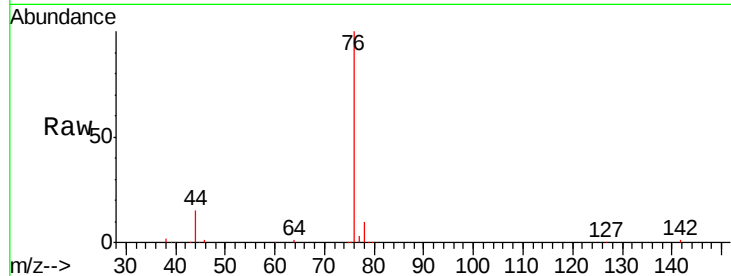
#17
Carbon Disulfide
Concen: 18.78 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 76 Resp: 295386
Ion Ratio Lower Upper
76 100
78 9.8 7.6 11.4

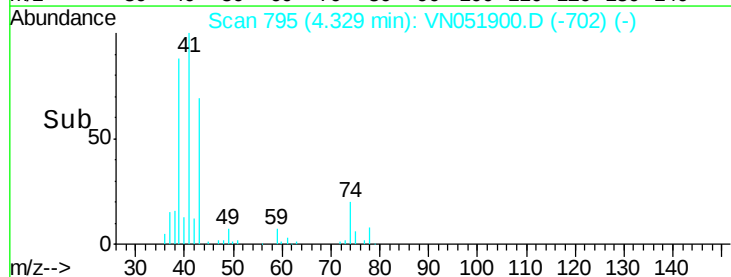
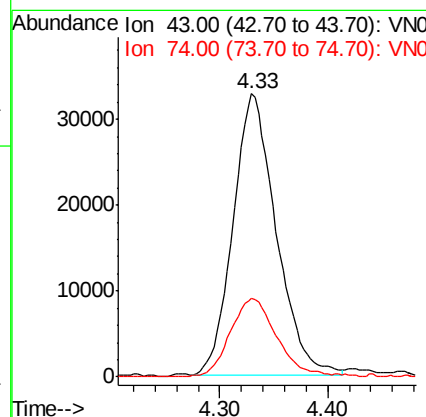
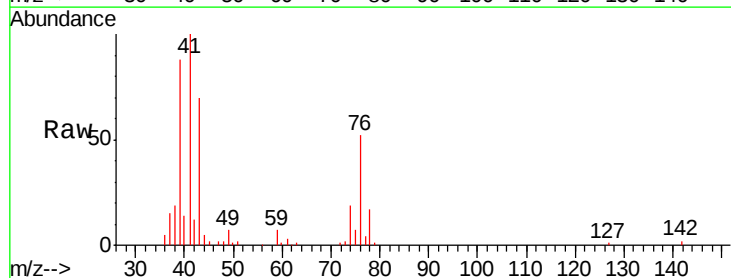
Manual Integrations
APPROVED

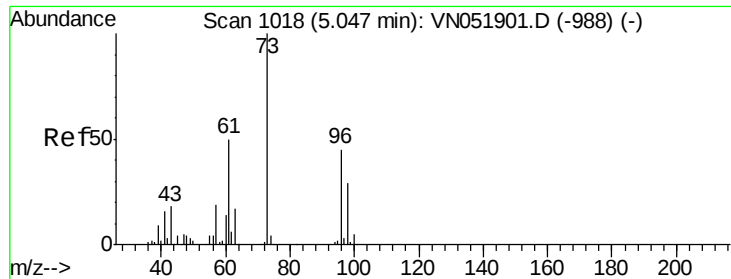
MMDadoda
10/19/2018 3:29:15 PM



#18
Methyl Acetate
Concen: 18.95 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion: 43 Resp: 90905
Ion Ratio Lower Upper
43 100
74 30.0 24.9 37.3





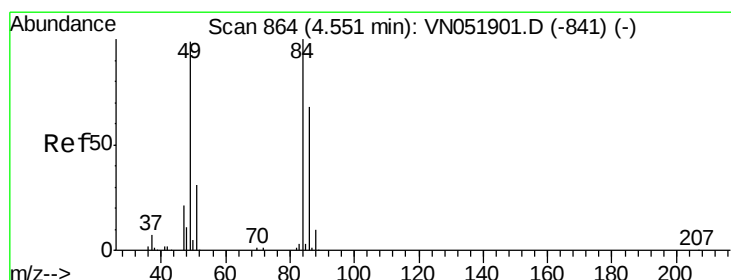
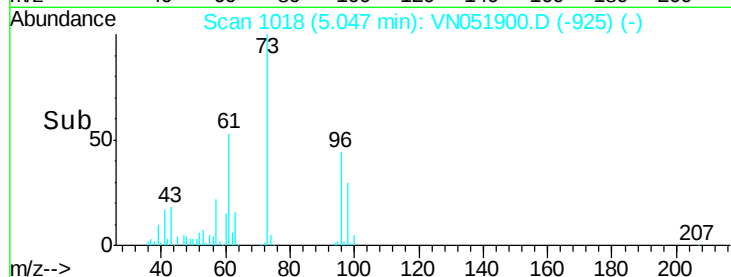
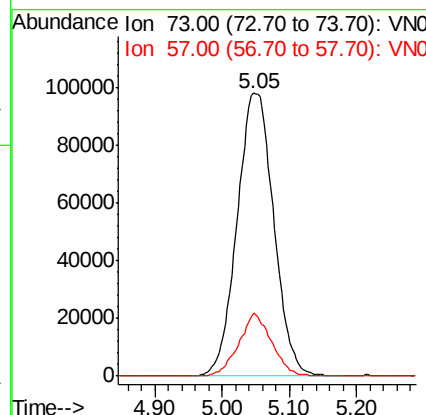
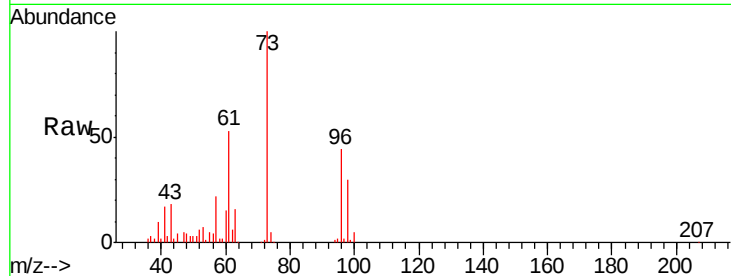
#19
Methyl tert-butyl Ether
Concen: 20.46 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 73 Resp: 371969
Ion Ratio Lower Upper
73 100
57 22.2 15.3 22.9

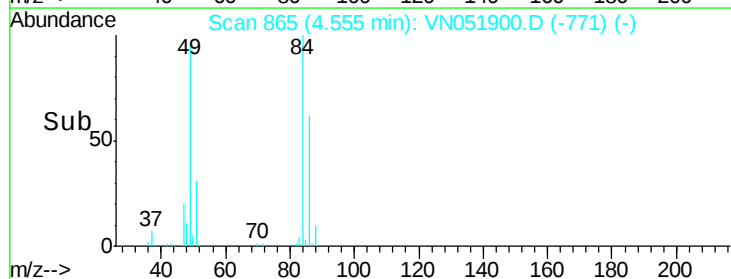
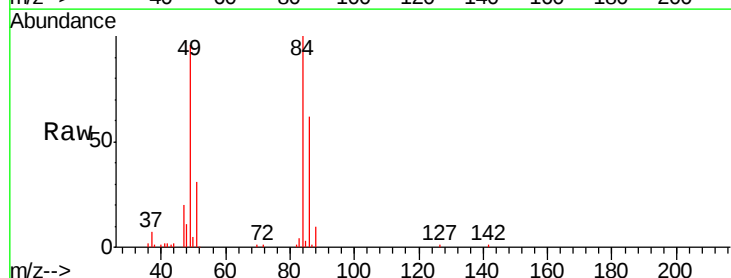
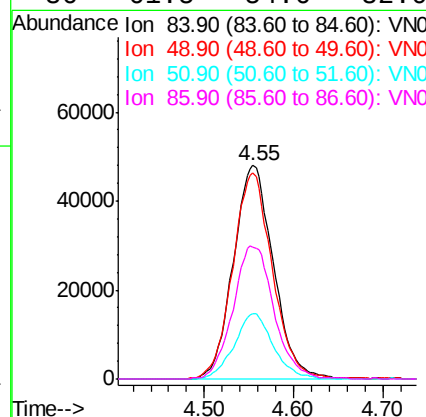
Manual Integrations
APPROVED

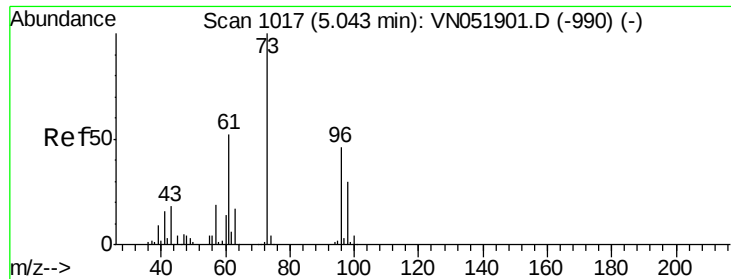
MMDadoda
10/19/2018 3:29:15 PM



#20
Methylene Chloride
Concen: 20.38 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion: 84 Resp: 149047
Ion Ratio Lower Upper
84 100
49 96.0 79.0 118.4
51 30.8 24.9 37.3
86 61.5 54.6 82.0





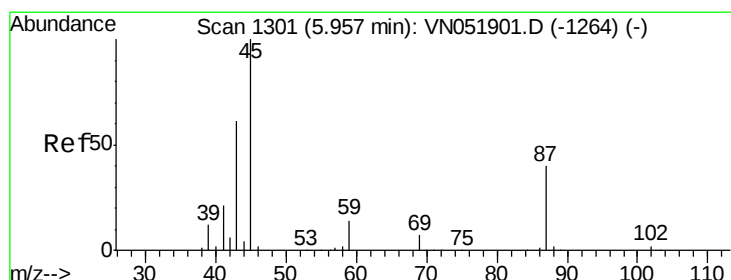
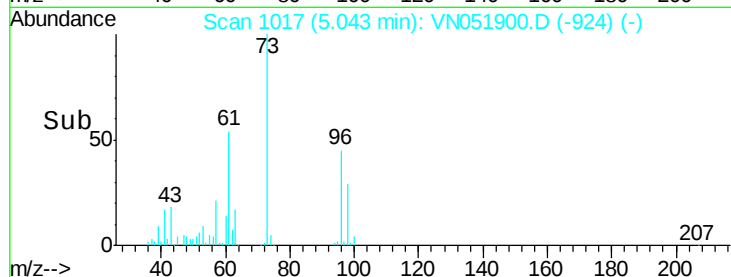
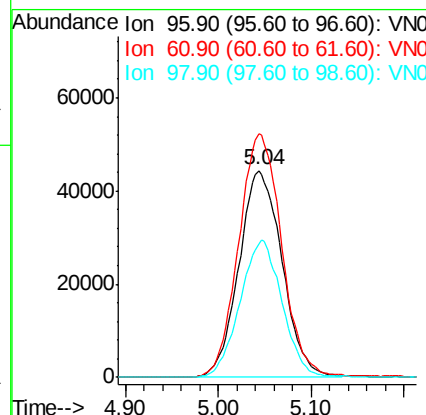
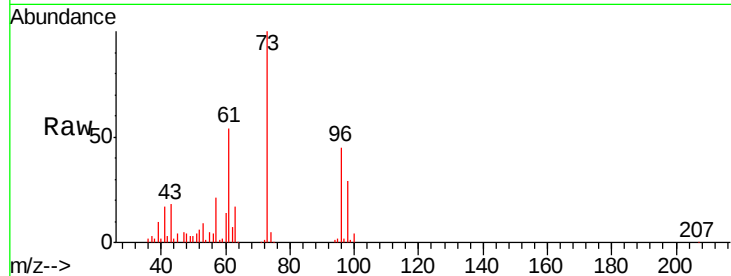
#21
trans-1,2-Dichloroethene
Concen: 19.81 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	143611		
61	117.9	89.8	134.6	
98	64.4	51.7	77.5	

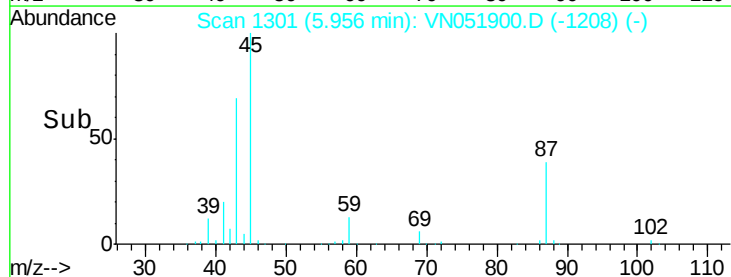
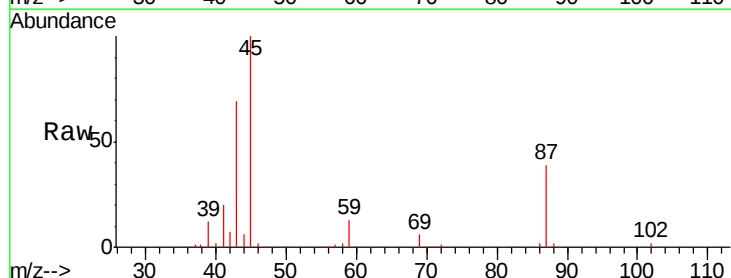
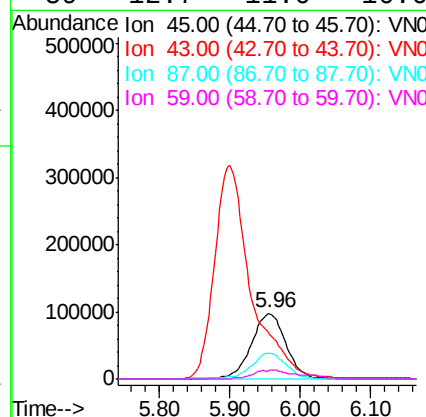
Manual Integrations
APPROVED

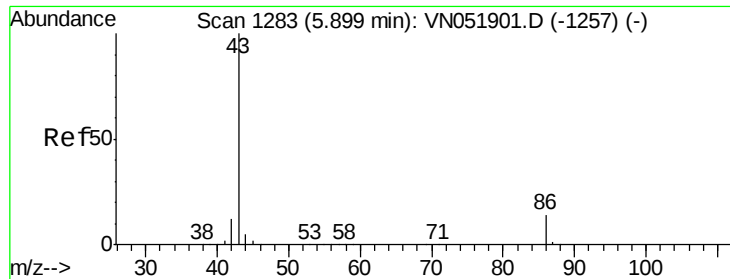
MMDadoda
10/19/2018 3:29:15 PM



#22
Diisopropyl ether
Concen: 20.90 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Resp	Lower	Upper
45	100	332791		
43	66.2	48.9	73.3	
87	38.9	32.6	48.8	
59	12.7	11.0	16.6	





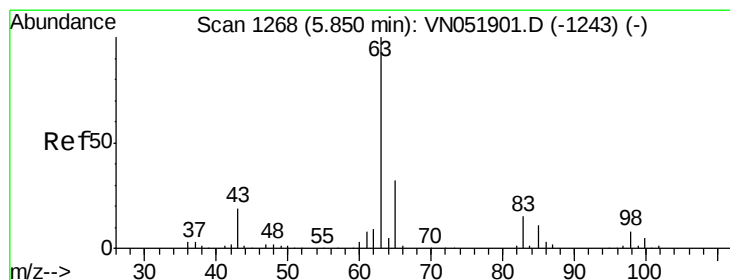
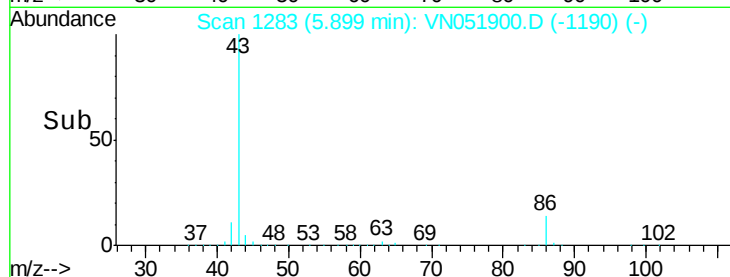
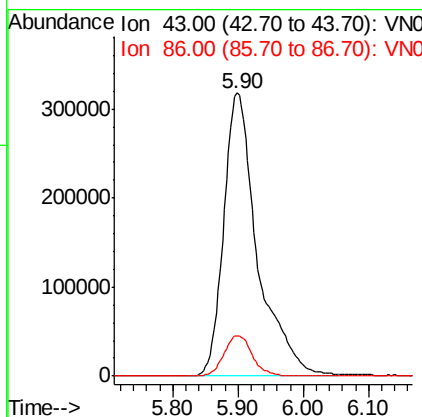
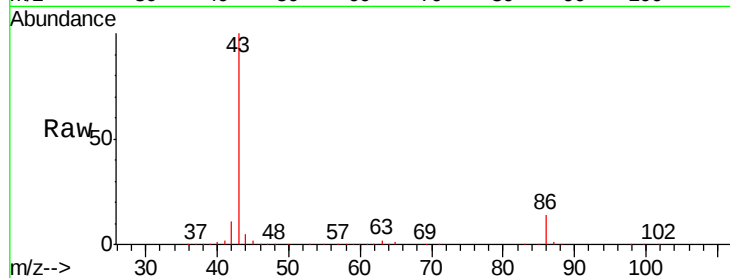
#23
 Vinyl Acetate
 Concen: 104.26 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion: 43 Resp: 1142901
 Ion Ratio Lower Upper
 43 100
 86 14.3 11.5 17.3

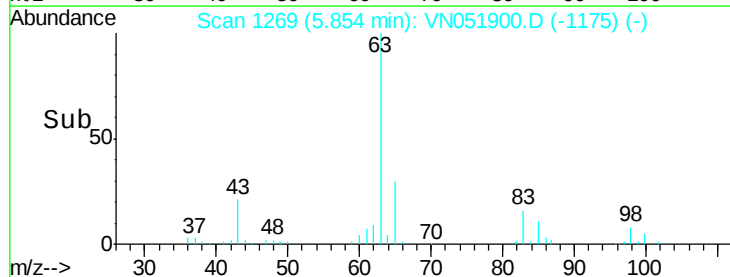
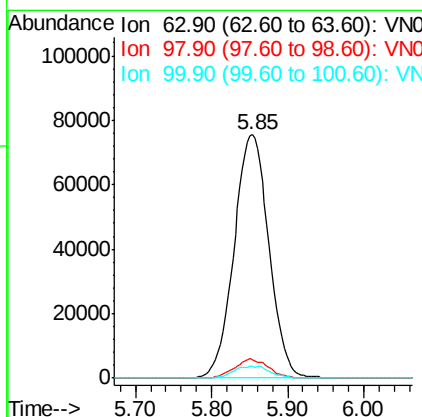
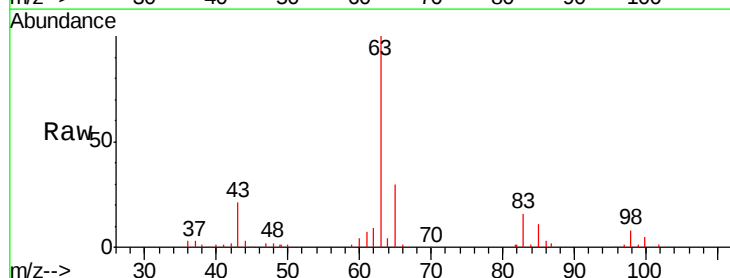
Manual Integrations
 APPROVED

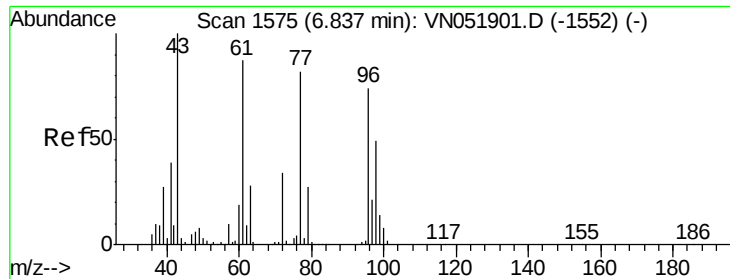
MMDadoda
 10/19/2018 3:29:15 PM



#24
 1,1-Dichloroethane
 Concen: 20.81 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Tgt Ion: 63 Resp: 239947
 Ion Ratio Lower Upper
 63 100
 98 7.6 4.0 12.0
 100 4.7 2.4 7.1





#25

2-Butanone

Concen: 102.54 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 210849

Ion Ratio Lower Upper

43 100

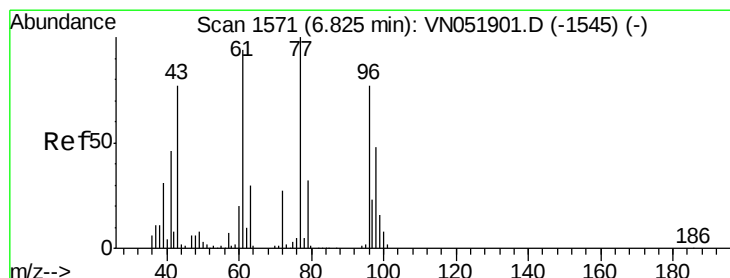
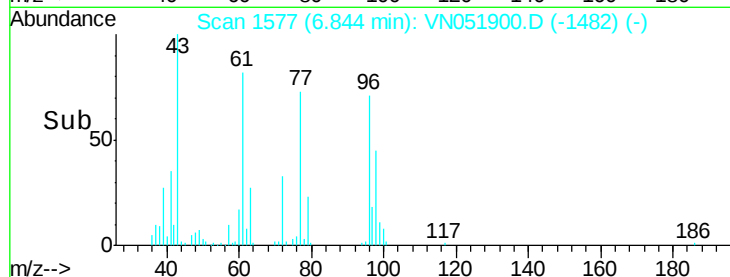
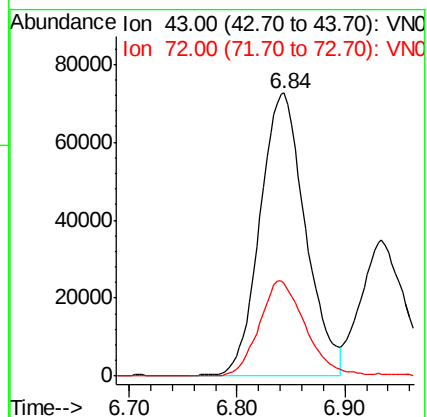
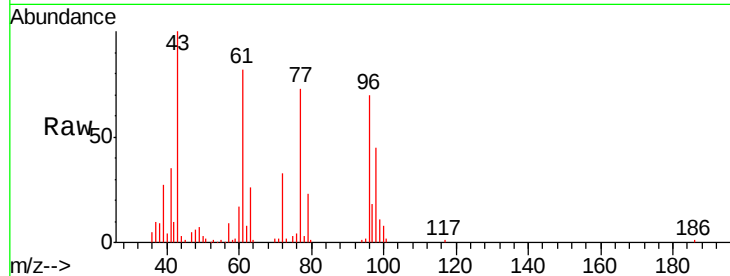
72 32.8 27.0 40.6

Manual Integrations

APPROVED

MMDadoda

10/19/2018 3:29:15 PM



#26

2,2-Dichloropropane

Concen: 20.96 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051900.D

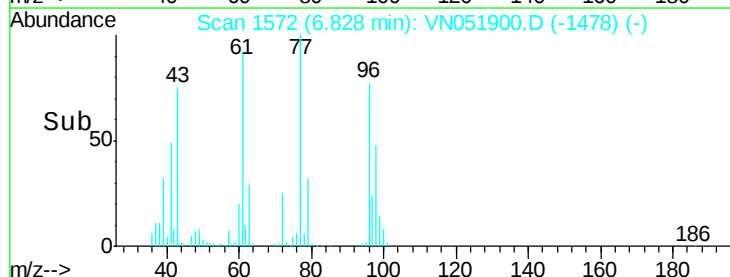
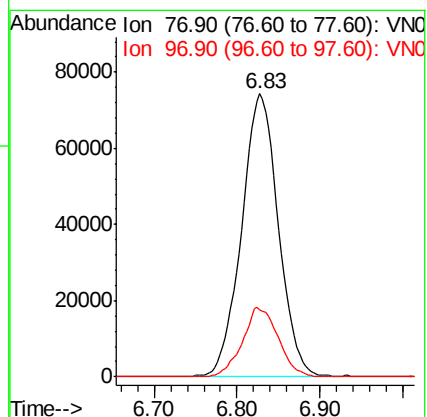
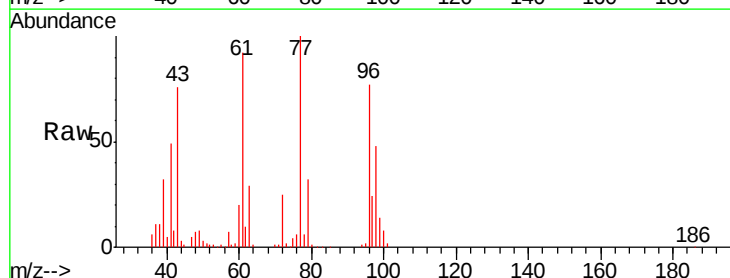
Acq: 17 Oct 2018 9:46

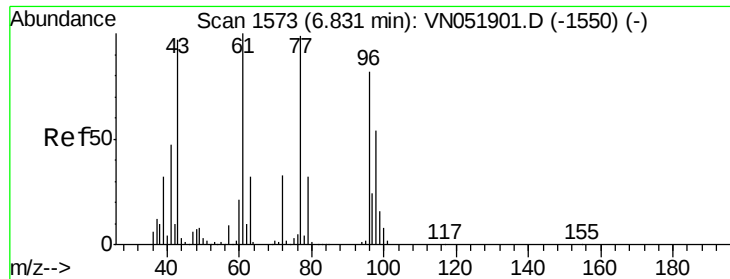
Tgt Ion: 77 Resp: 228523

Ion Ratio Lower Upper

77 100

97 24.0 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 20.70 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

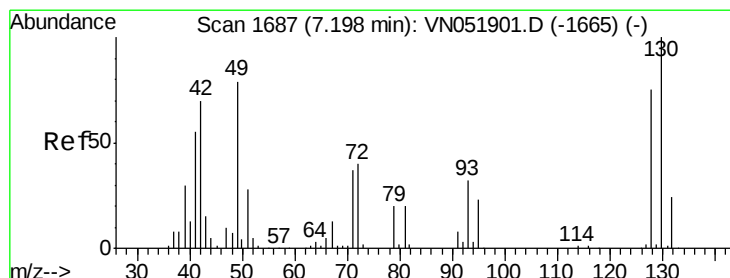
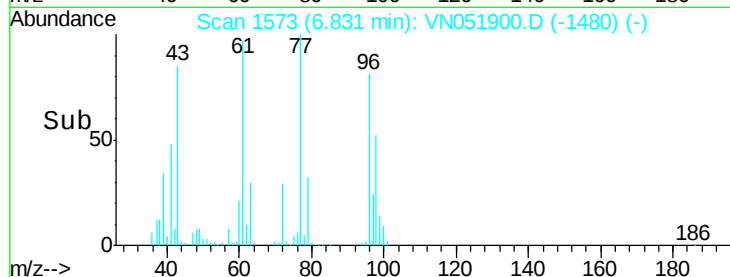
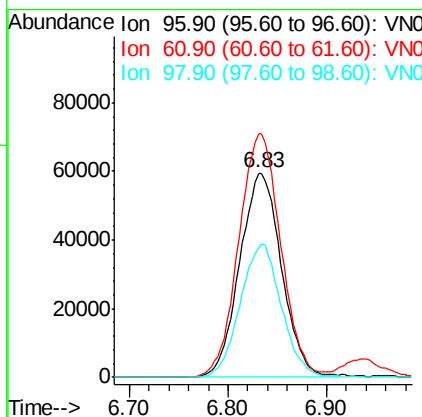
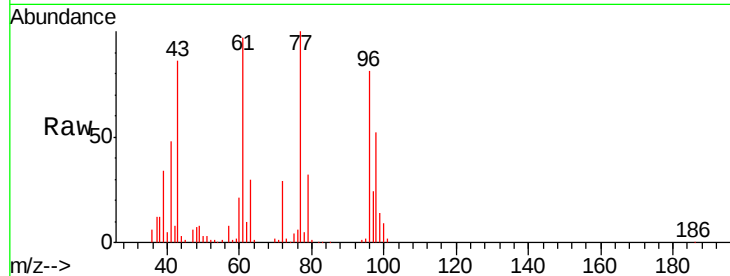
ClientSampleId :

VSTDIC020

Tgt Ion:	96	Resp:	174384
Ion	Ratio	Lower	Upper
96	100		
61	120.3	0.0	240.2
98	64.3	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



#28

Bromochloromethane

Concen: 20.57 ug/l

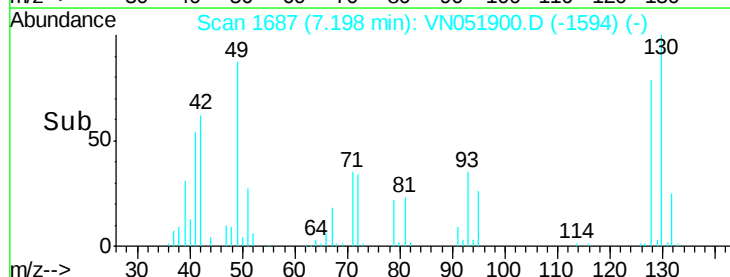
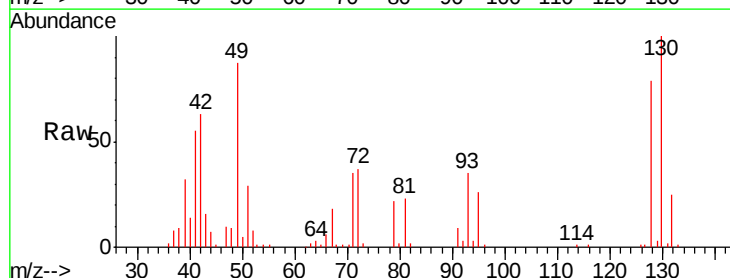
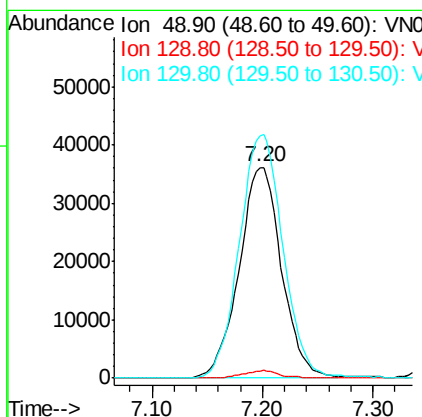
RT: 7.20 min Scan# 1687

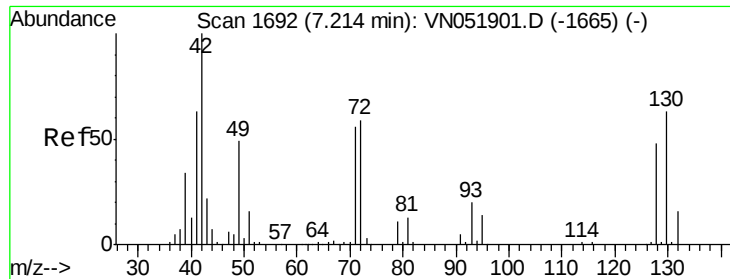
Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Tgt Ion:	49	Resp:	96333
Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	6.0
130	118.7	96.7	145.1





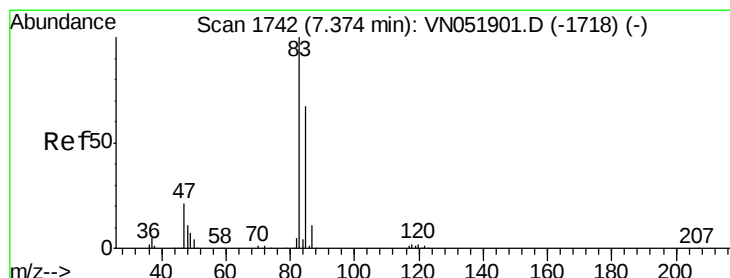
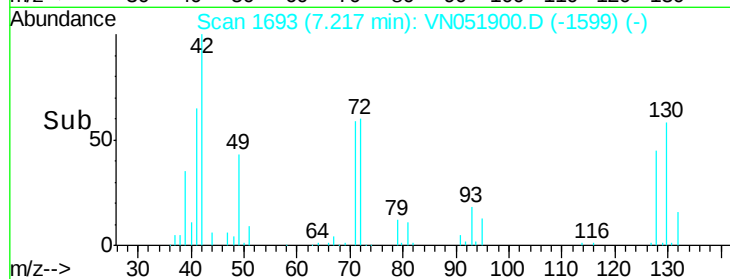
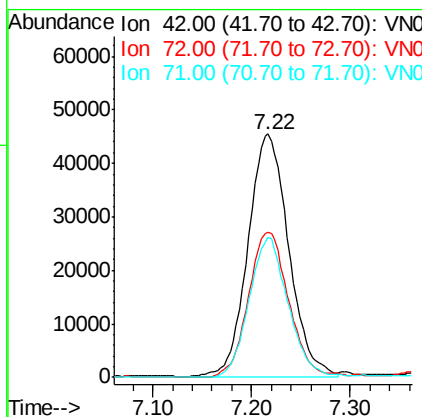
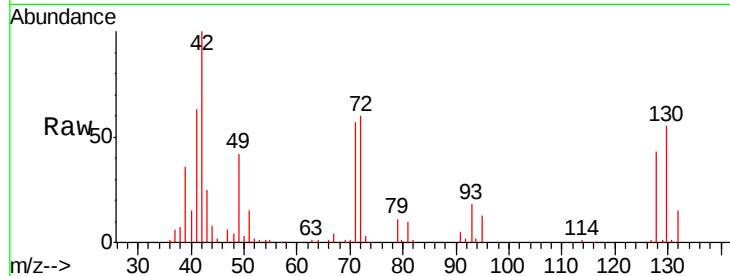
#29
Tetrahydrofuran
Concen: 102.50 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
42	100		
72	59.8	47.7	71.5
71	55.5	45.4	68.0

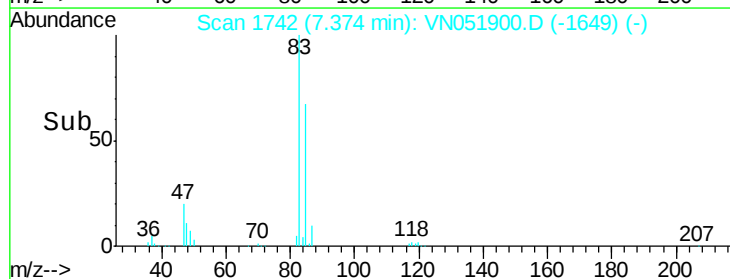
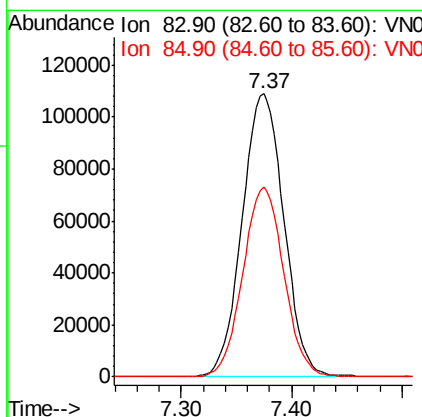
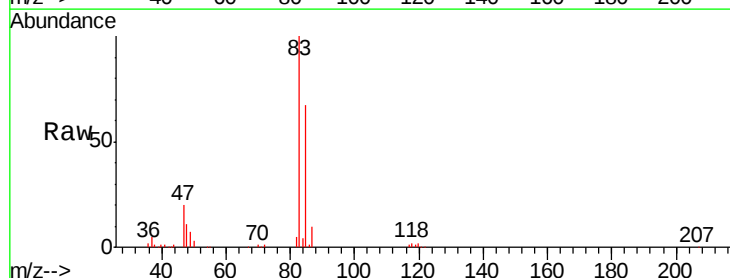
Manual Integrations
APPROVED

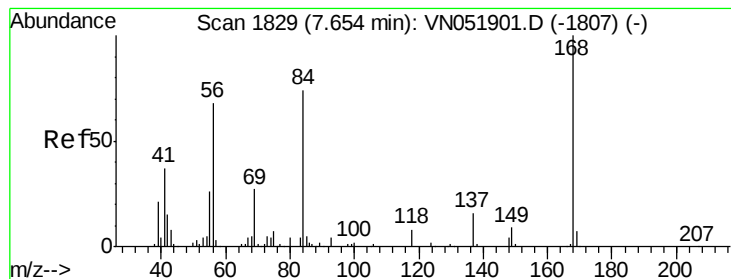
MMDadoda
10/19/2018 3:29:15 PM



#30
Chloroform
Concen: 20.73 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	53.4	80.2





#31

Cyclohexane

Concen: 16.23 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 203452
Ion Ratio Lower Upper

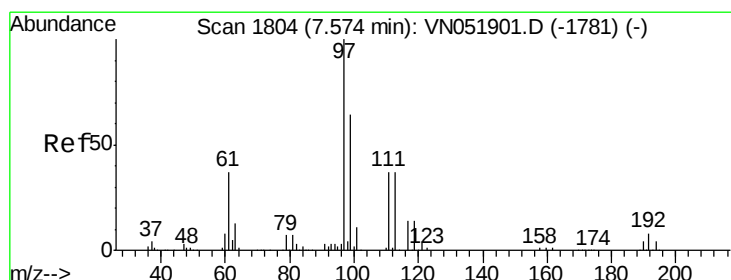
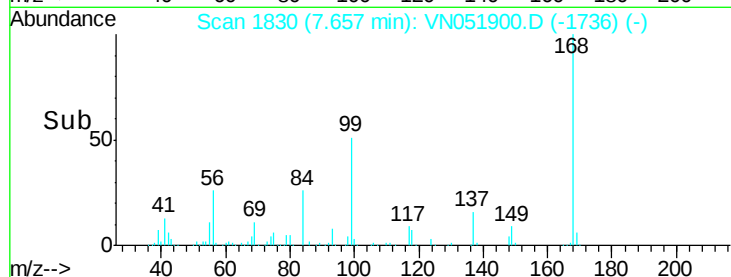
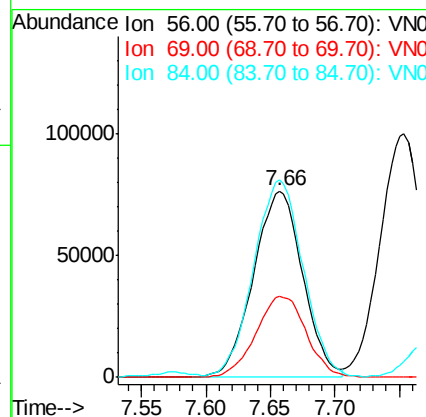
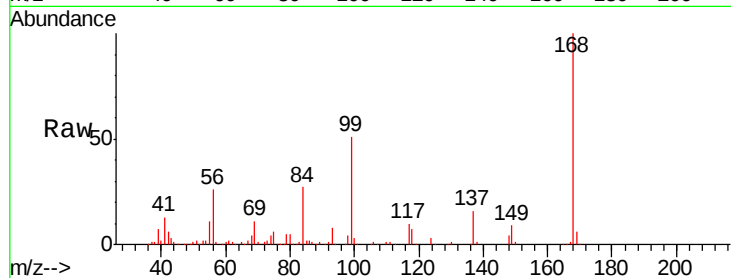
56 100

69 43.3 31.2 46.8

84 104.5 86.6 130.0

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



#32

1,1,1-Trichloroethane

Concen: 20.30 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN051900.D

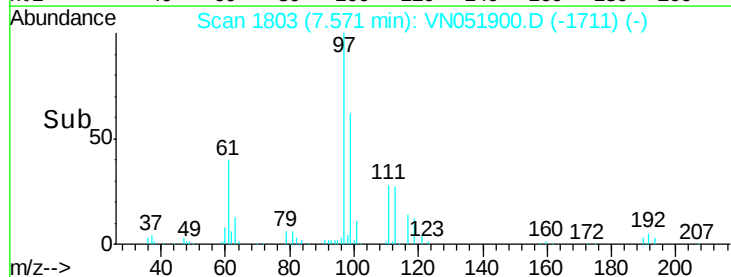
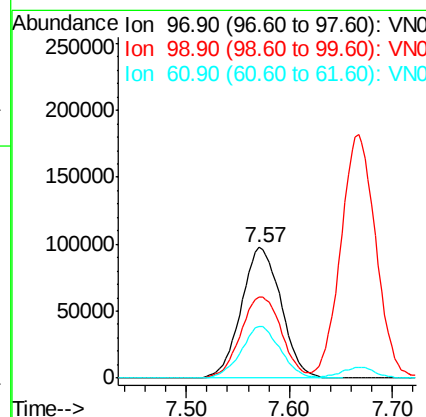
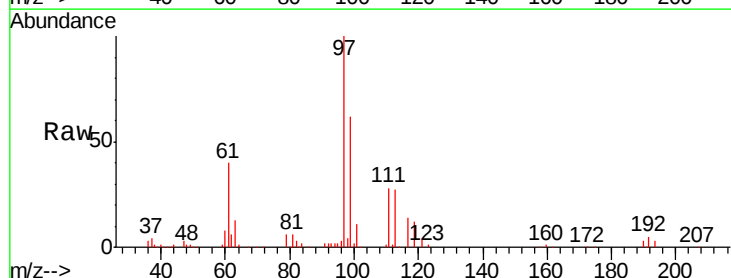
Acq: 17 Oct 2018 9:46

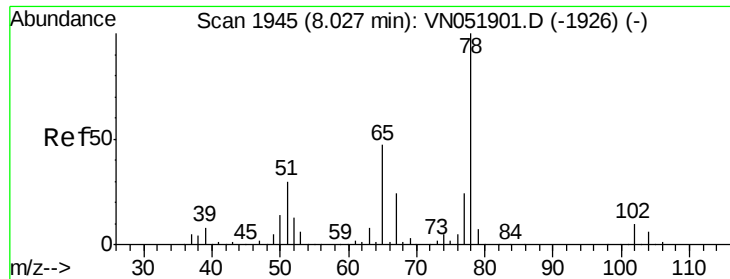
Tgt Ion: 97 Resp: 261152
Ion Ratio Lower Upper

97 100

99 63.9 51.3 76.9

61 38.9 29.8 44.6





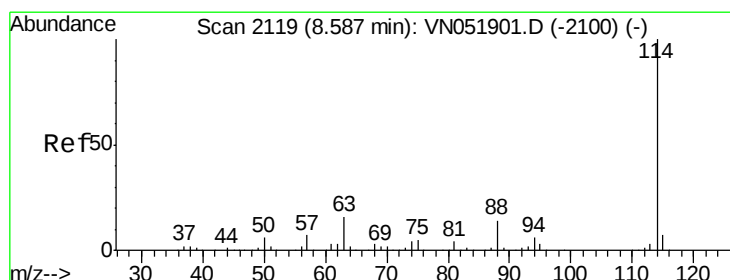
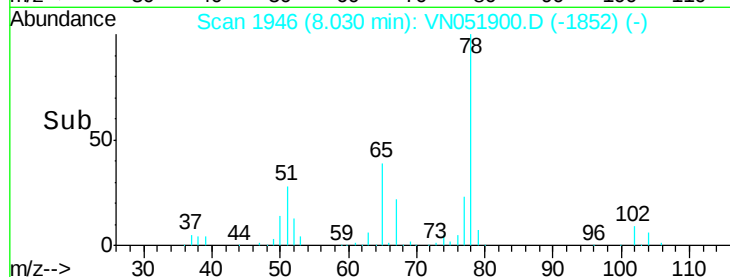
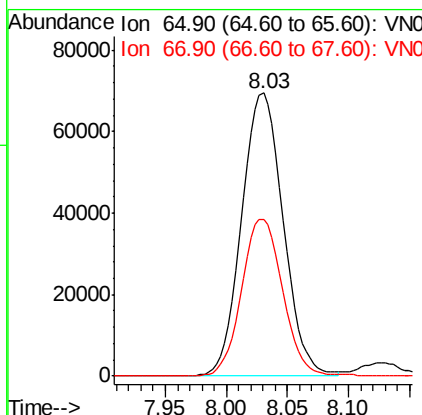
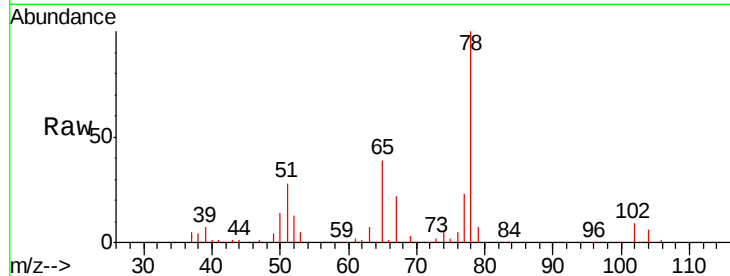
#33
 1,2-Dichloroethane-d4
 Concen: 20.30 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion: 65 Resp: 164028
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 104.0

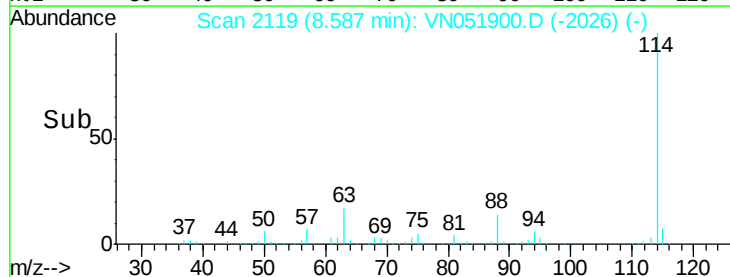
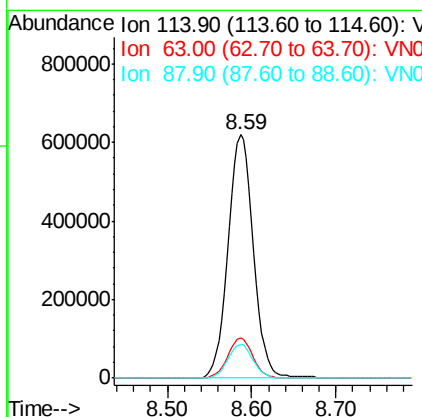
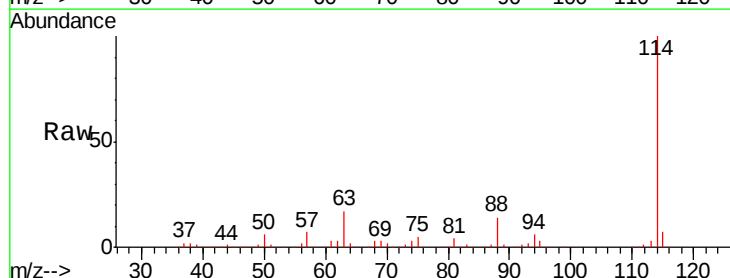
Manual Integrations
 APPROVED

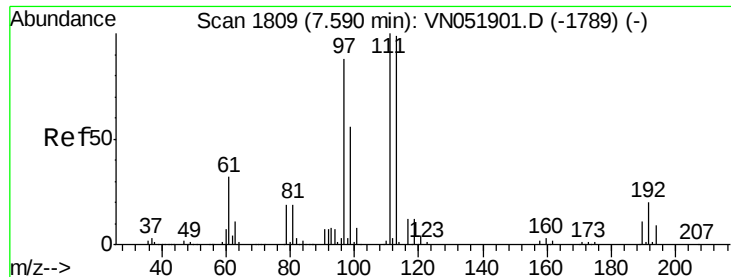
MMDadoda
 10/19/2018 3:29:15 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Tgt Ion: 114 Resp: 1291574
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 31.8
 88 13.9 0.0 28.0





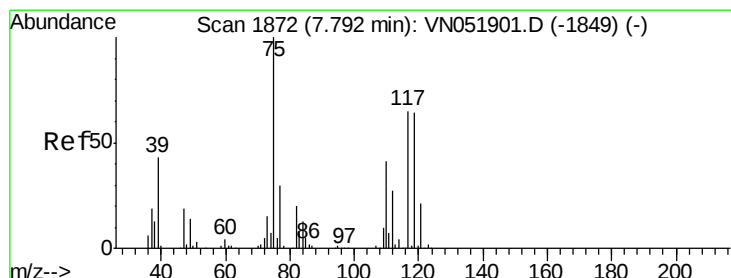
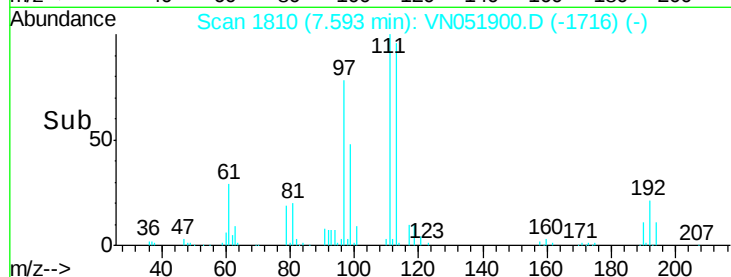
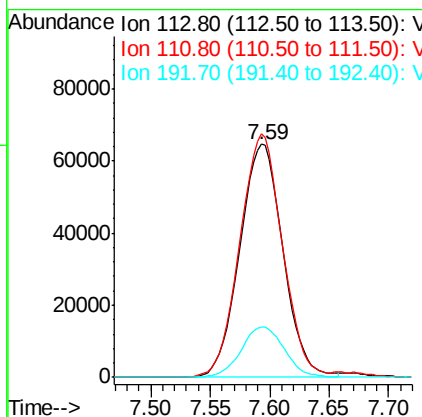
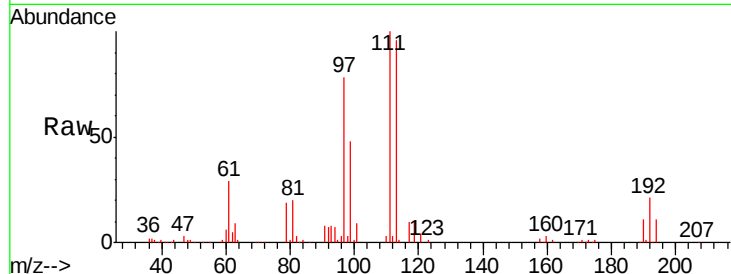
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	162731		
111	102.7	82.6	123.8	
192	21.5	17.3	25.9	

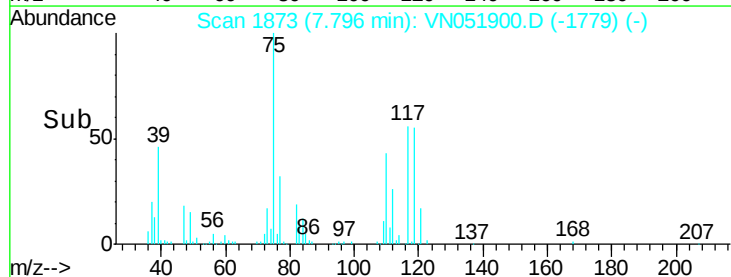
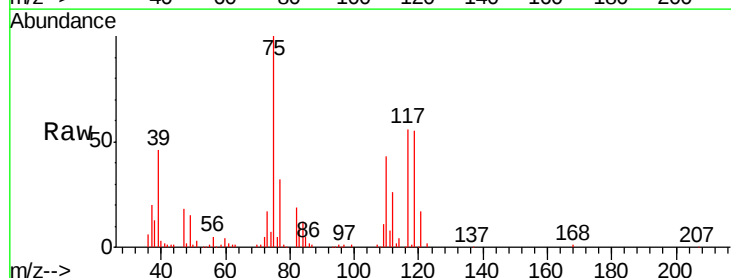
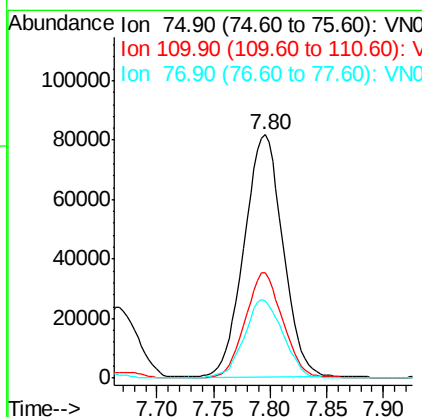
Manual Integrations
APPROVED

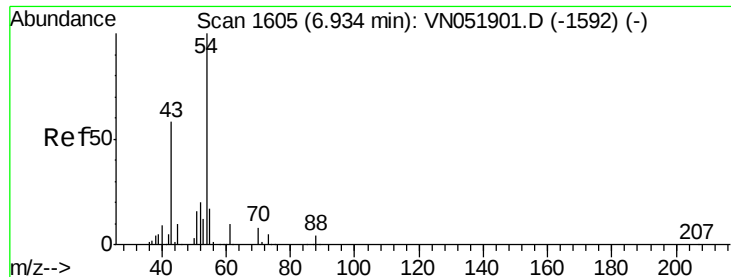
MMDadoda
10/19/2018 3:29:15 PM



#36
1,1-Dichloropropene
Concen: 19.45 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	194989		
110	42.0	21.0	63.0	
77	32.4	24.9	37.3	





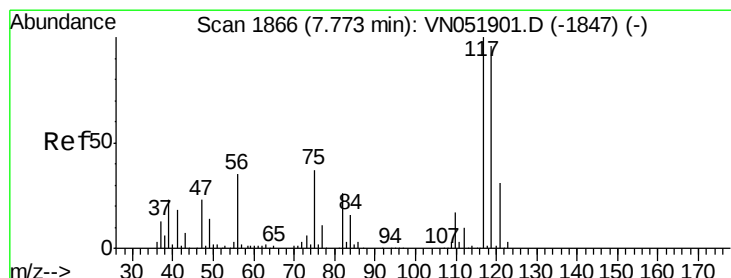
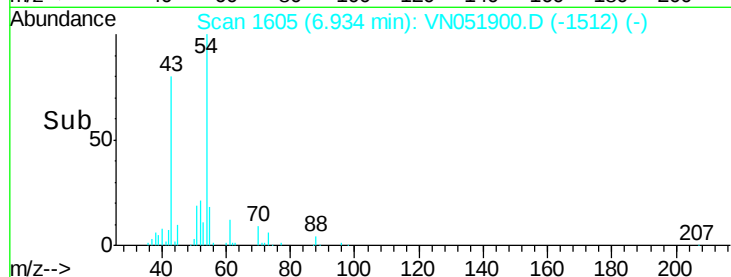
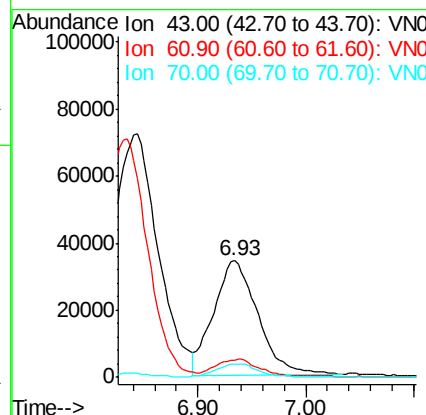
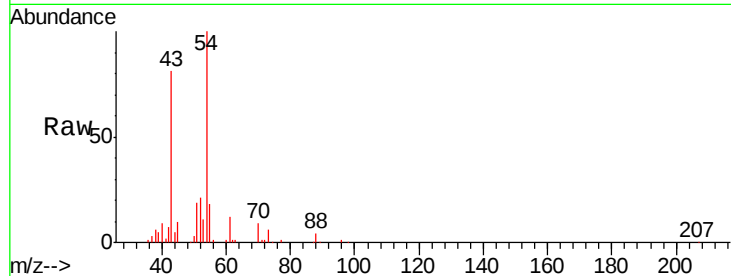
#37
Ethyl Acetate
Concen: 22.04 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
43	100		
61	14.1	13.0	19.6
70	11.8	10.4	15.6

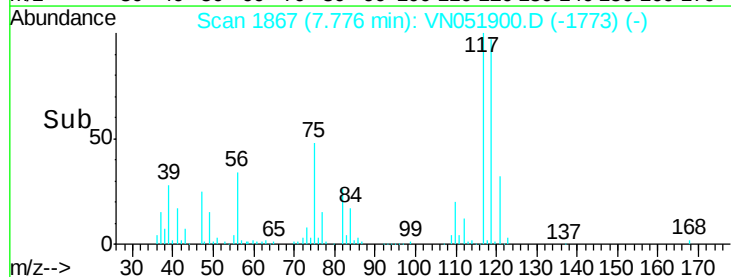
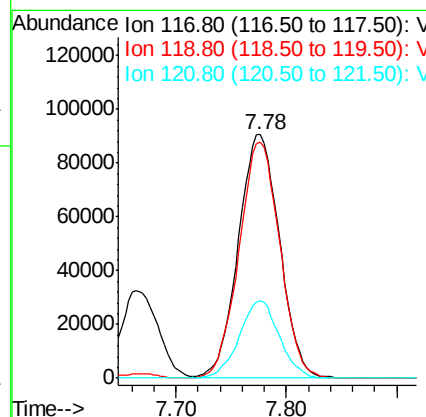
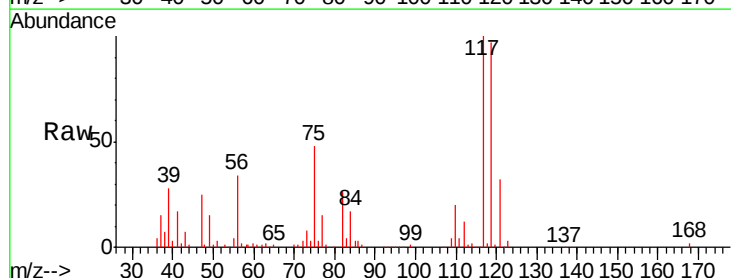
Manual Integrations
APPROVED

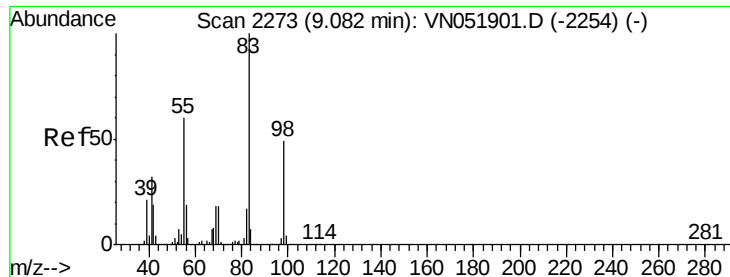
MMDadoda
10/19/2018 3:29:15 PM



#38
Carbon Tetrachloride
Concen: 19.75 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.0	77.0	115.6
121	31.6	25.1	37.7





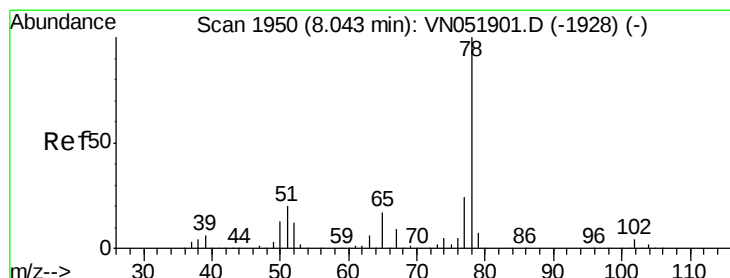
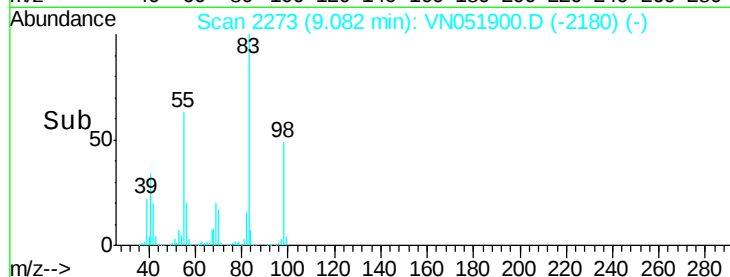
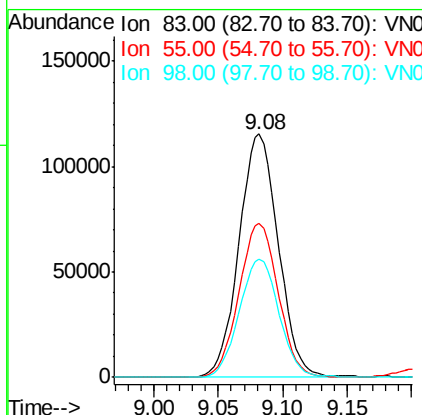
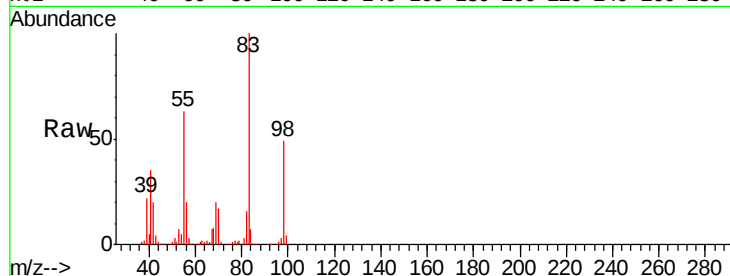
#39
Methylcyclohexane
Concen: 19.77 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
83	100		
55	63.2	47.8	71.8
98	48.7	39.0	58.4

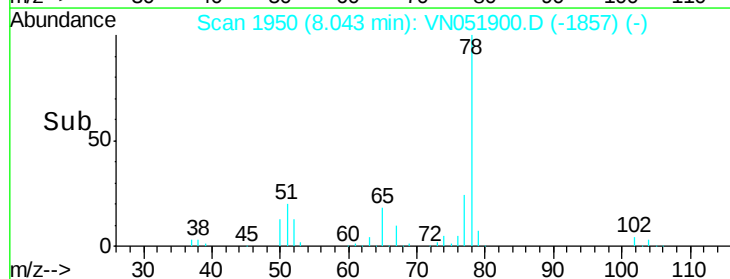
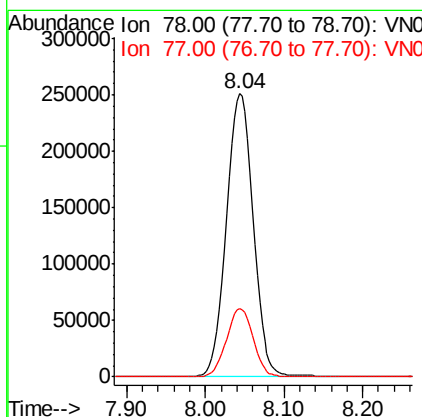
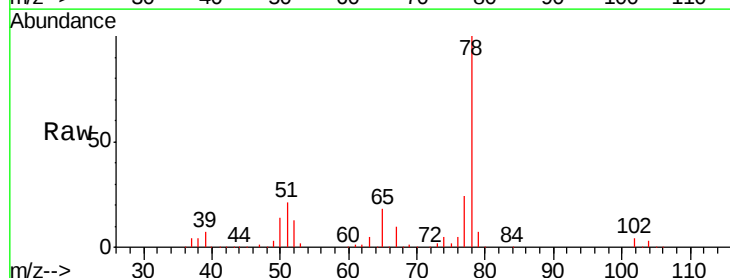
Manual Integrations
APPROVED

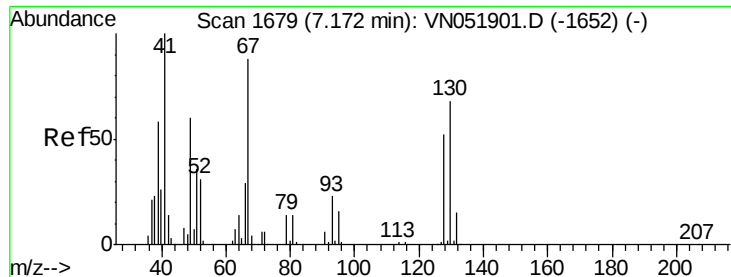
MMDadoda
10/19/2018 3:29:15 PM



#40
Benzene
Concen: 20.28 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.9	28.3





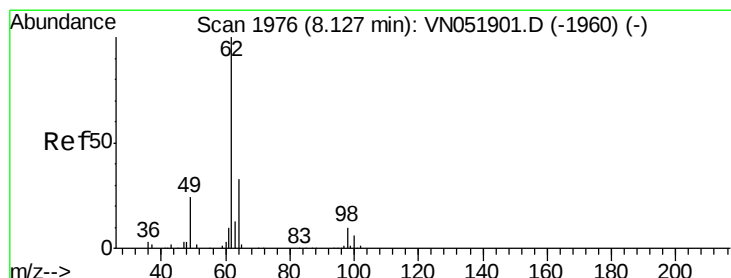
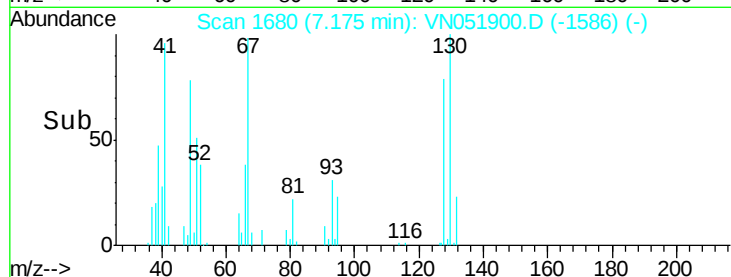
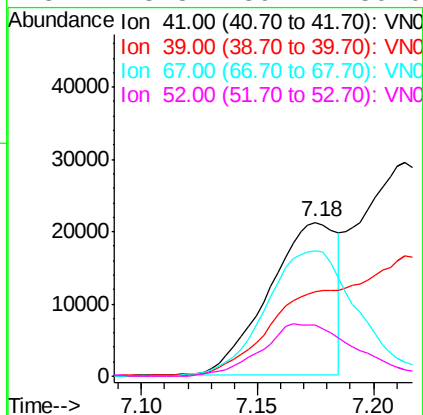
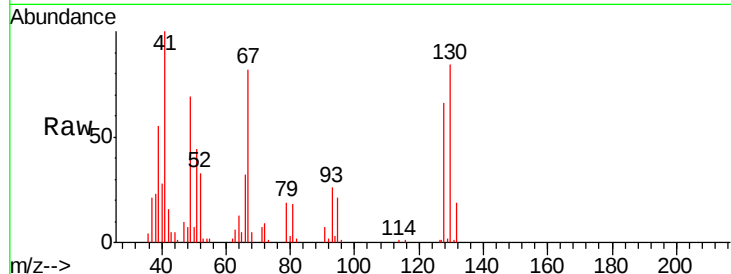
#41
Methacrylonitrile
Concen: 18.82 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
41	100		
39	0.0	56.1	84.1#
67	113.5	106.5	159.7
52	48.8	39.4	59.0

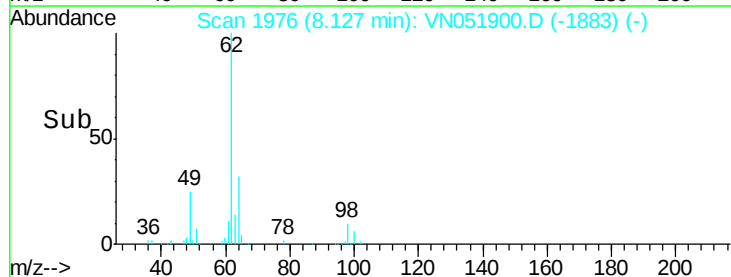
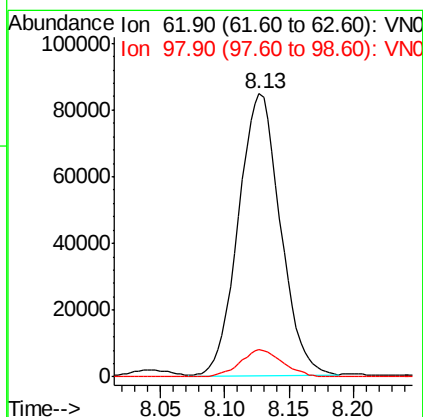
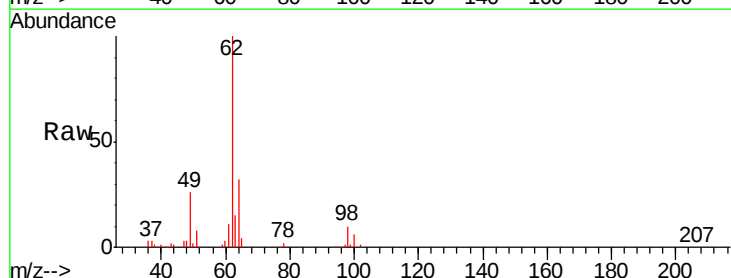
Manual Integrations
APPROVED

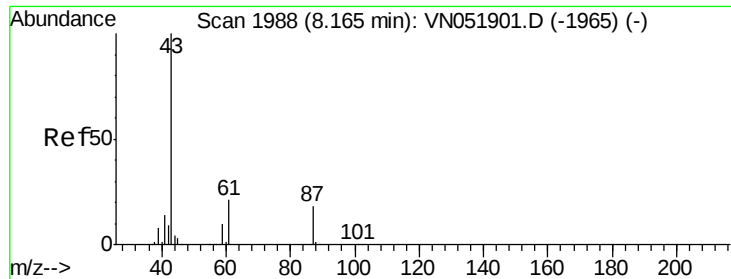
MMDadoda
10/19/2018 3:29:15 PM



#42
1,2-Dichloroethane
Concen: 20.42 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.6





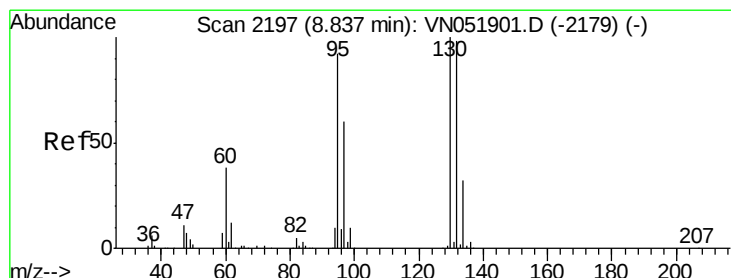
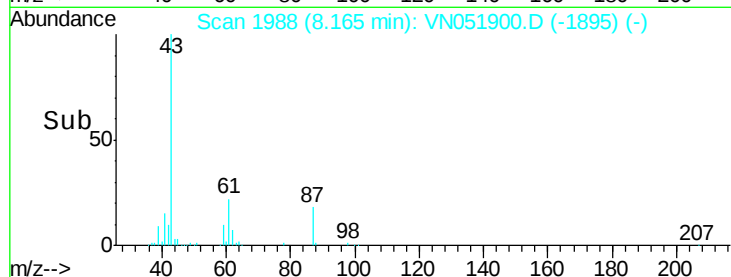
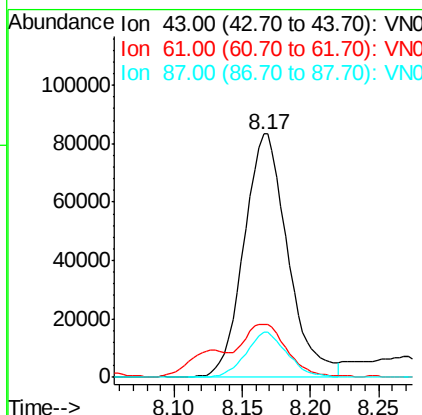
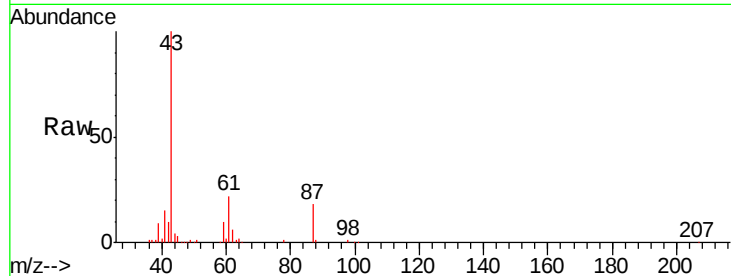
#43
Isopropyl Acetate
Concen: 20.81 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
43	100		
61	21.4	24.9	37.3#
87	17.5	14.6	22.0

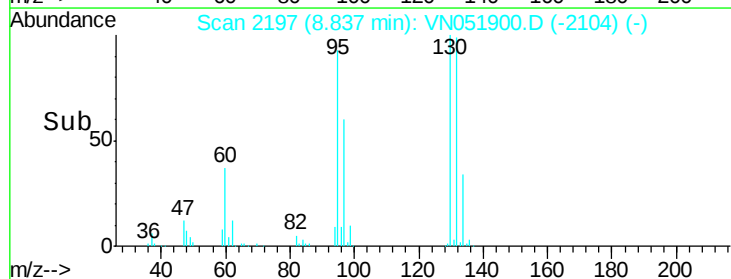
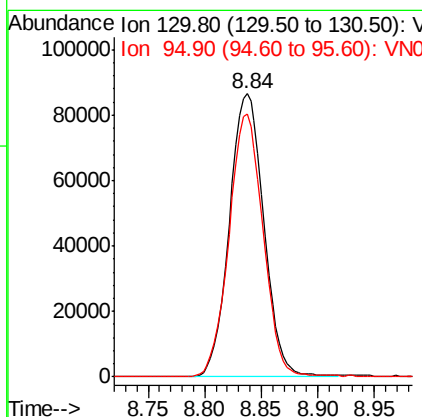
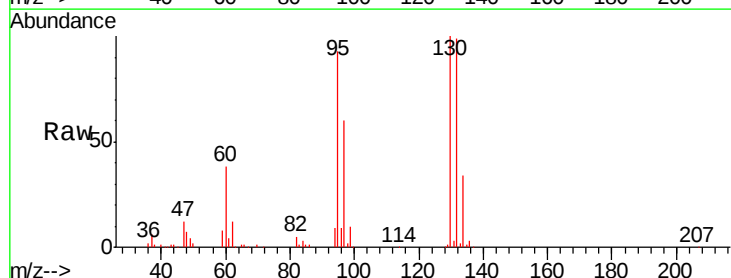
Manual Integrations
APPROVED

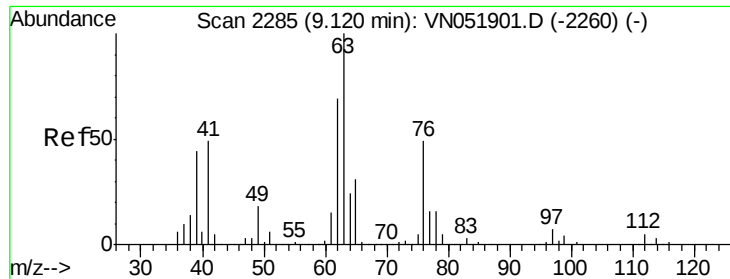
MMDadoda
10/19/2018 3:29:15 PM



#44
Trichloroethene
Concen: 20.01 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.8	0.0	183.2





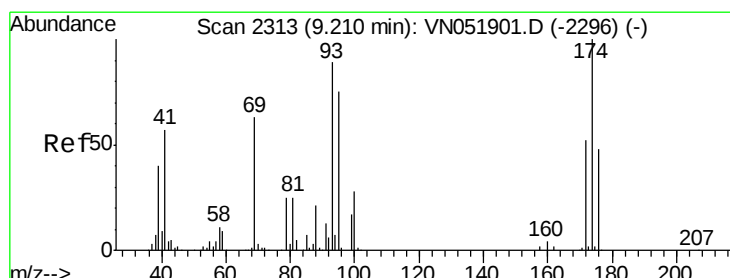
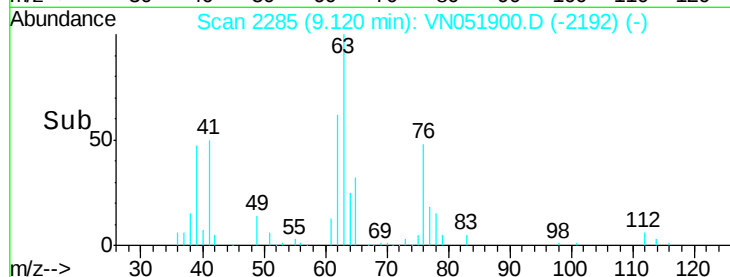
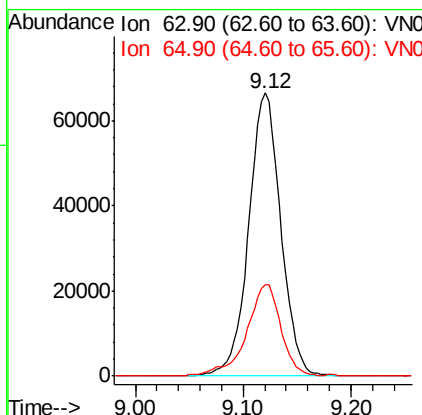
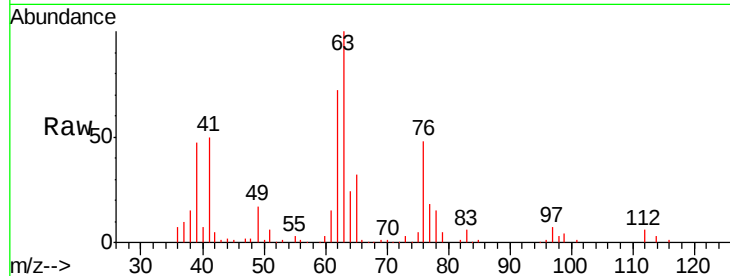
#45
 1,2-Dichloropropane
 Concen: 20.28 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion: 63 Resp: 137339
 Ion Ratio Lower Upper
 63 100
 65 32.1 24.9 37.3

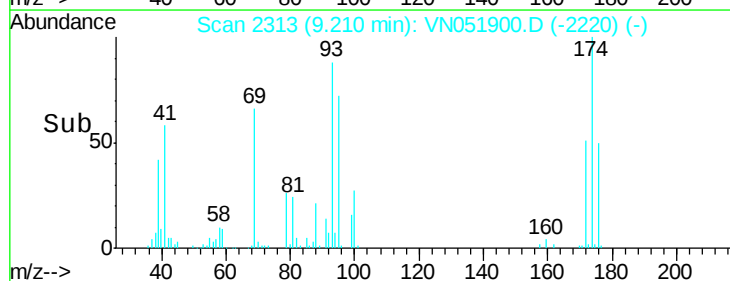
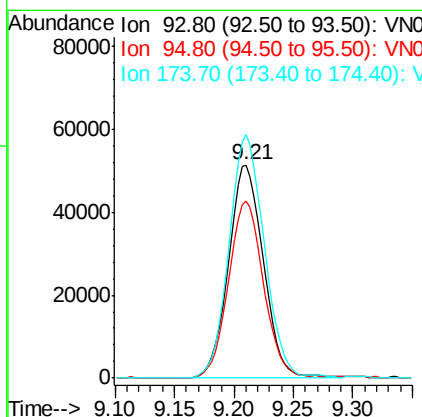
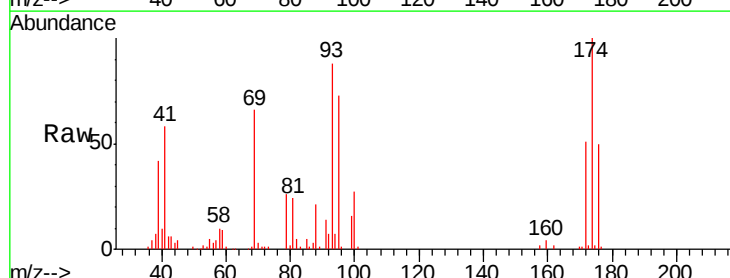
Manual Integrations
 APPROVED

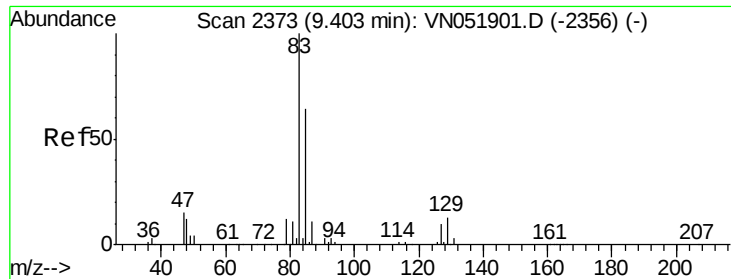
MMDadoda
 10/19/2018 3:29:15 PM



#46
 Dibromomethane
 Concen: 20.28 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Tgt Ion: 93 Resp: 104682
 Ion Ratio Lower Upper
 93 100
 95 83.3 67.8 101.6
 174 114.6 91.9 137.9





#47

Bromodichloromethane

Concen: 20.51 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

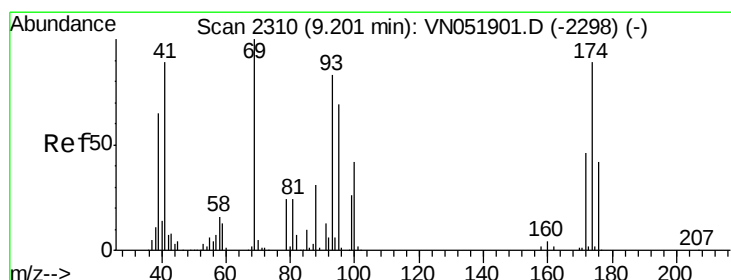
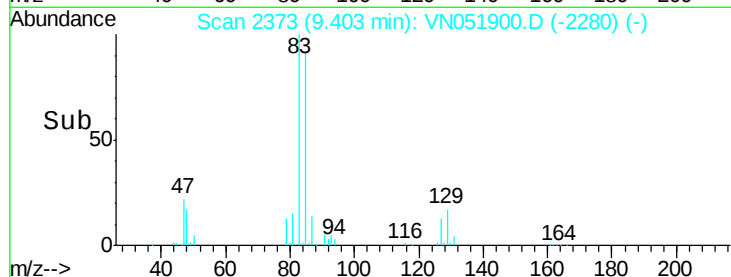
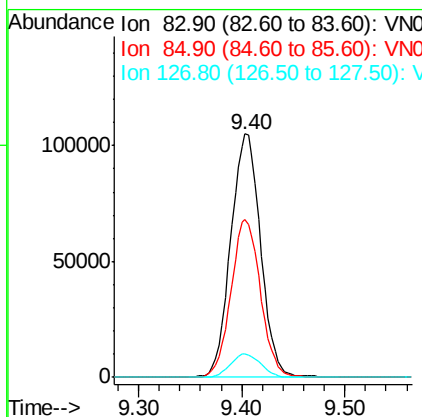
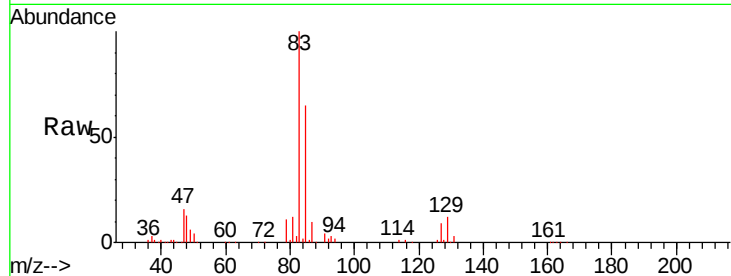
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	212230
Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.4	77.2
127	9.4	7.9	11.9

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



#48

Methyl methacrylate

Concen: 20.20 ug/l

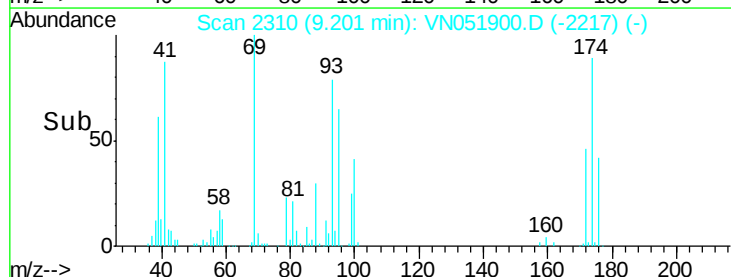
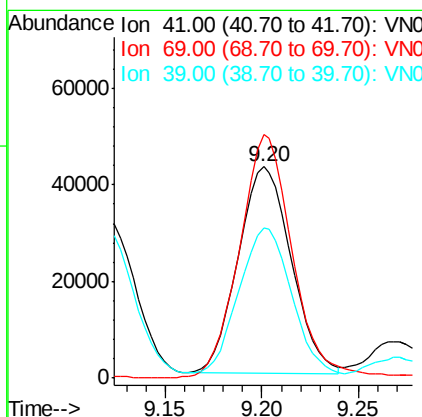
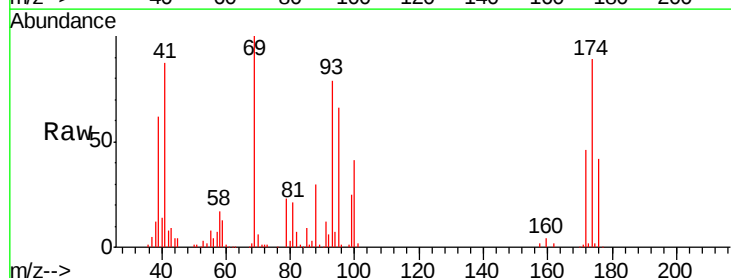
RT: 9.20 min Scan# 2310

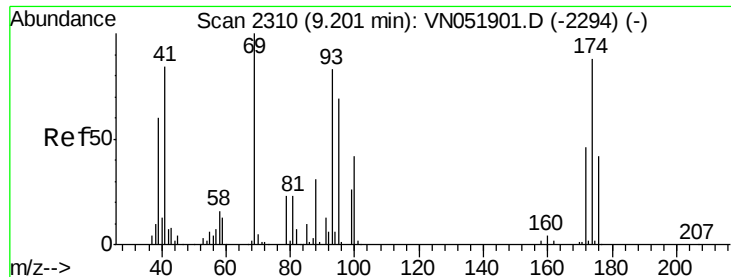
Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Tgt Ion:	41	Resp:	81725
Ion	Ratio	Lower	Upper
41	100		
69	118.2	90.2	135.2
39	73.4	59.7	89.5





#49

1,4-Dioxane

Concen: 406.99 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

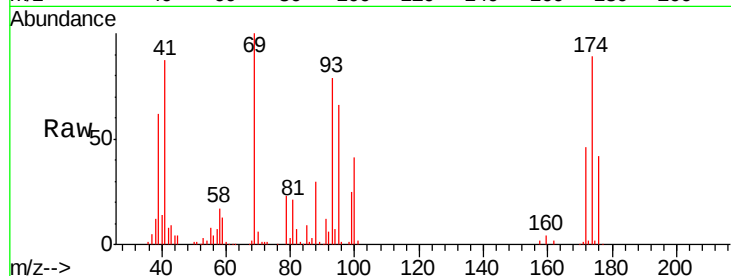
ClientSampleId :

VSTDIC020

Tgt Ion:	88	Resp:	31282
Ion Ratio	Lower	Upper	
88	100		
43	24.9	19.7	29.5
58	53.6	42.6	64.0

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM

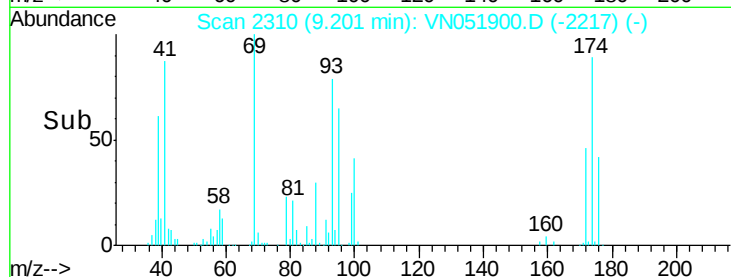


Abundance Ion 88.00 (87.70 to 88.70): VN051900.D (-2217) (-)

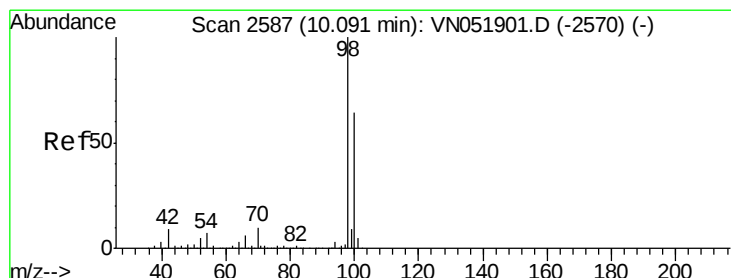
Ion 43.00 (42.70 to 43.70): VN051900.D (-2217) (-)

Ion 58.00 (57.70 to 58.70): VN051900.D (-2217) (-)

Time-->



Time-->



#50

Toluene-d8

Concen: 406.99 ug/l

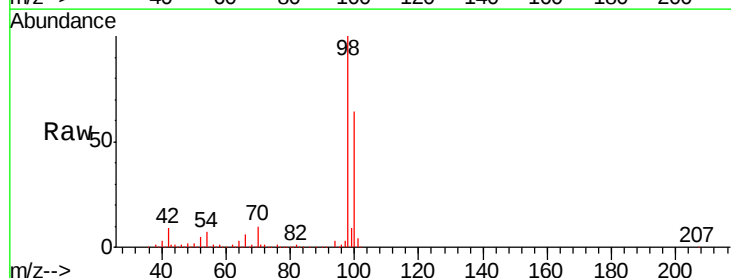
RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

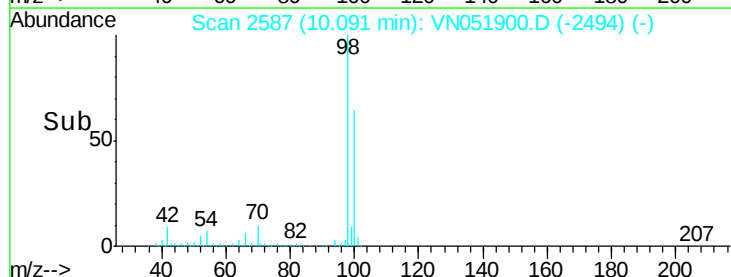
Tgt Ion:	98	Resp:	586850
Ion Ratio	Lower	Upper	
98	100		
100	63.4	51.0	76.4



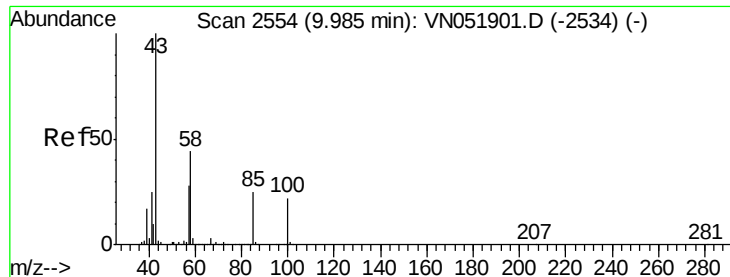
Abundance Ion 98.00 (97.70 to 98.70): VN051900.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN051900.D (-2494) (-)

Time-->



Time-->



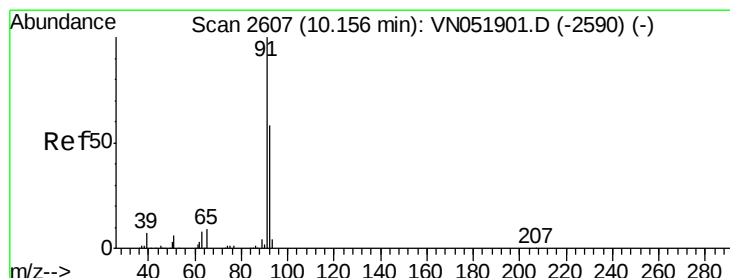
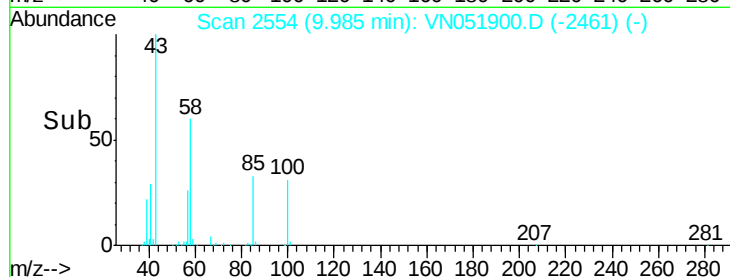
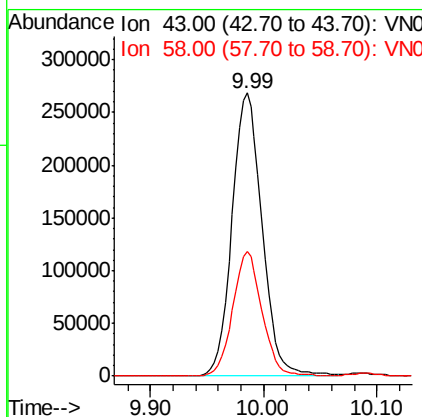
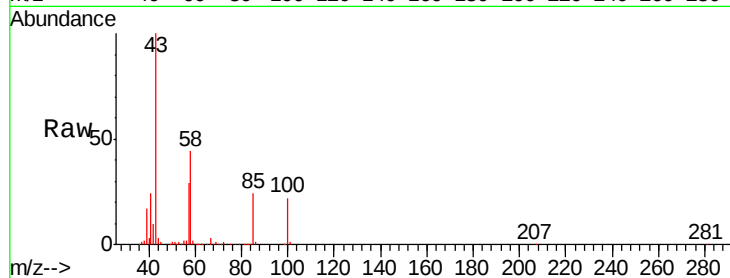
#51
4-Methyl-2-Pentanone
Concen: 105.90 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 494207
Ion Ratio Lower Upper
43 100
58 43.2 34.6 52.0

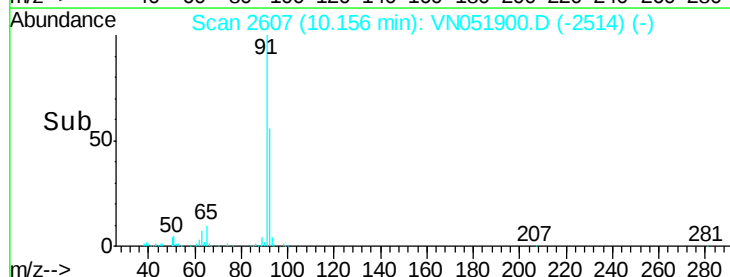
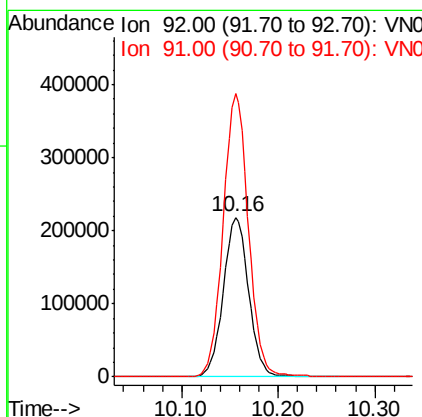
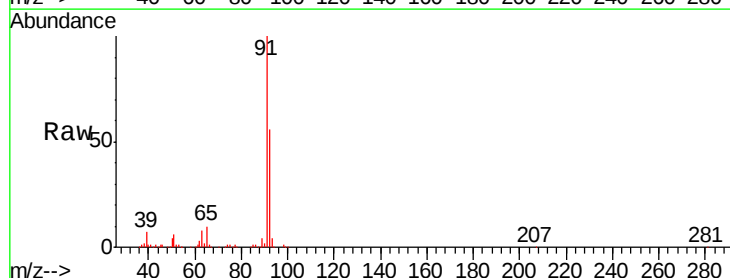
Manual Integrations
APPROVED

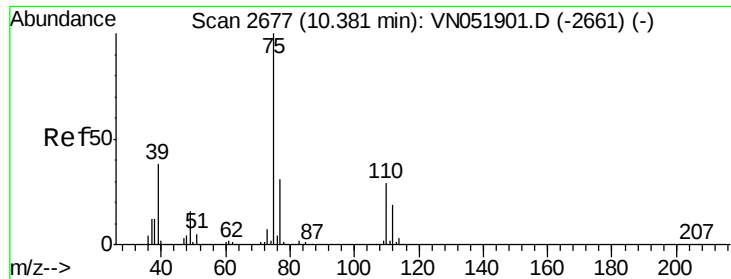
MMDadoda
10/19/2018 3:29:15 PM



#52
Toluene
Concen: 20.27 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion: 92 Resp: 397130
Ion Ratio Lower Upper
92 100
91 177.3 139.8 209.6





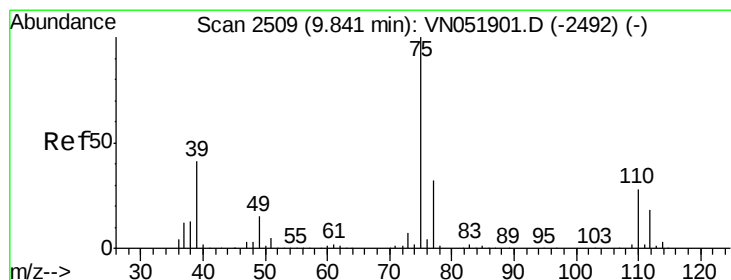
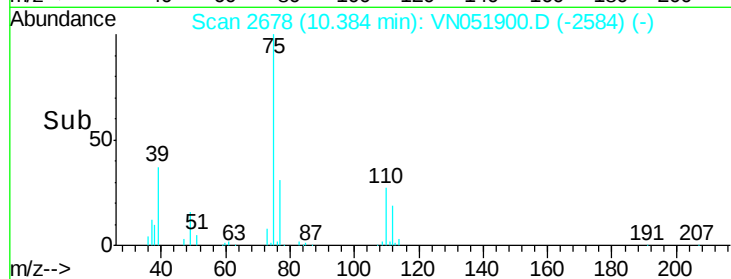
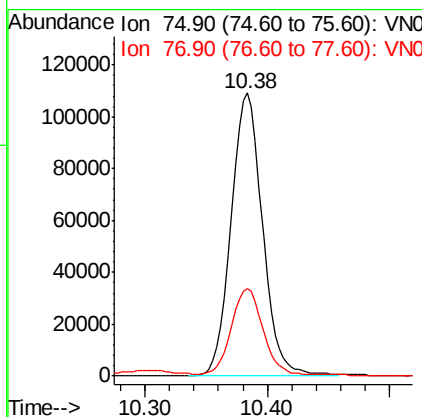
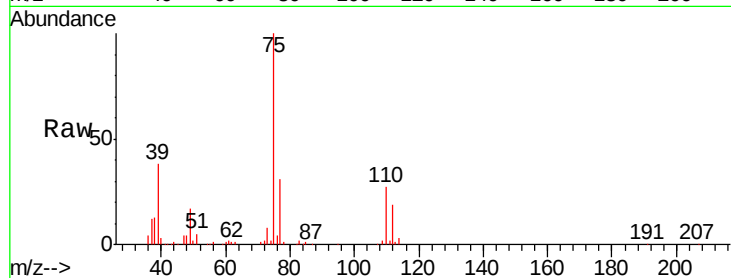
#53
t-1,3-Dichloropropene
Concen: 19.98 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 75 Resp: 195889
Ion Ratio Lower Upper
75 100
77 30.7 25.4 38.0

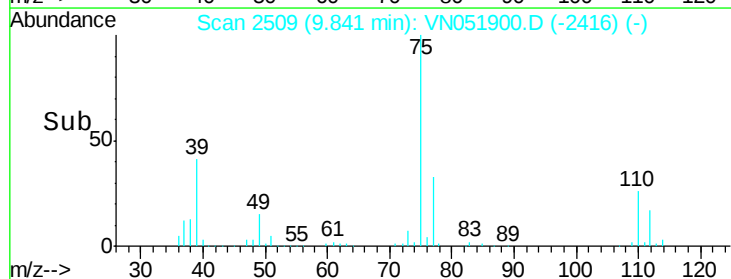
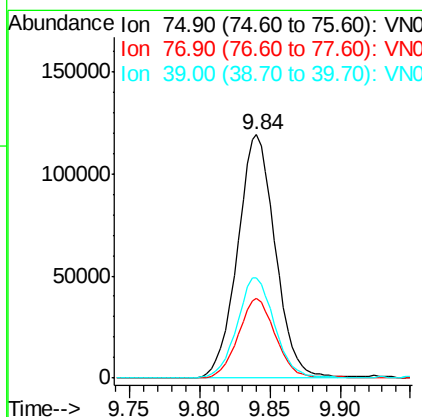
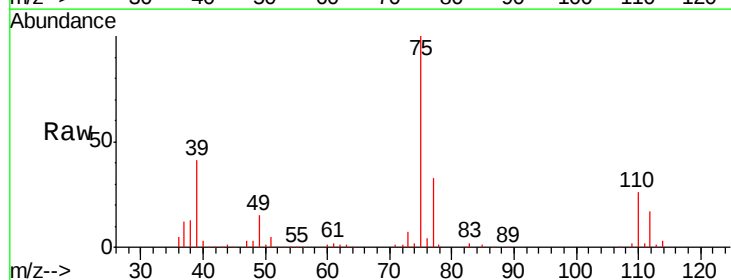
Manual Integrations
APPROVED

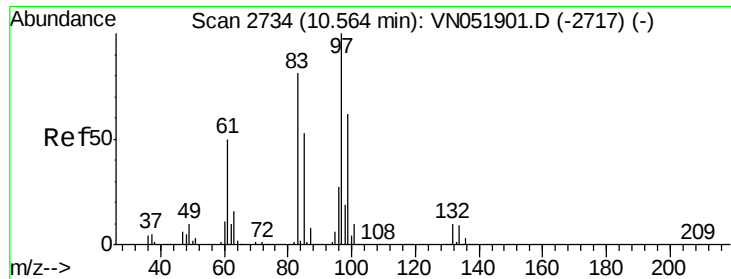
MMDadoda
10/19/2018 3:29:15 PM



#54
cis-1,3-Dichloropropene
Concen: 20.40 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion: 75 Resp: 222981
Ion Ratio Lower Upper
75 100
77 32.7 25.3 37.9
39 40.9 32.8 49.2





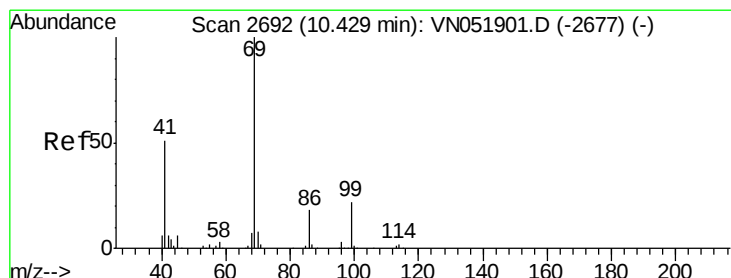
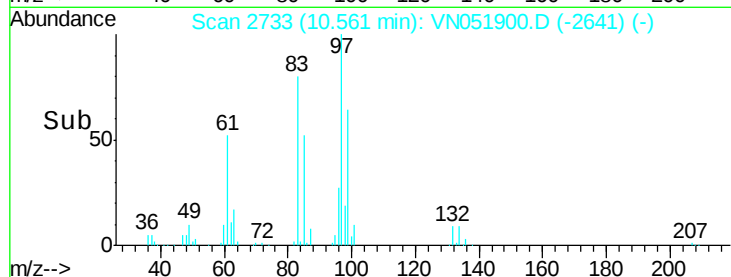
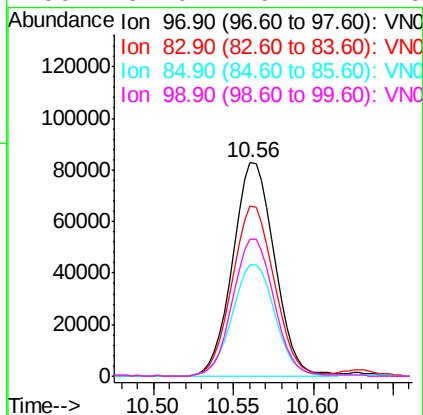
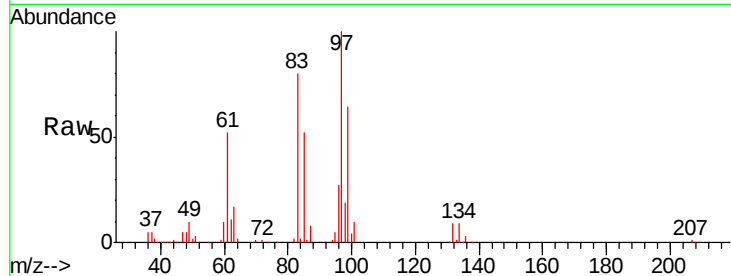
#55
 1,1,2-Trichloroethane
 Concen: 20.61 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
97	100		
83	79.5	64.6	96.8
85	51.8	42.3	63.5
99	64.0	49.7	74.5

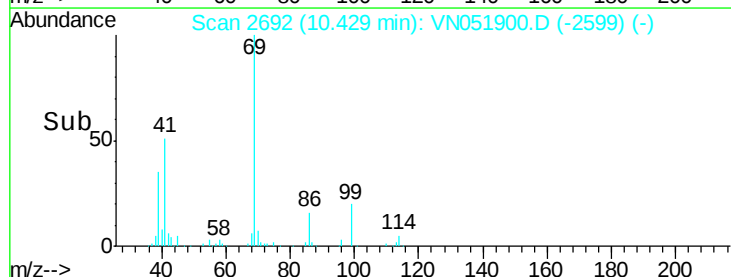
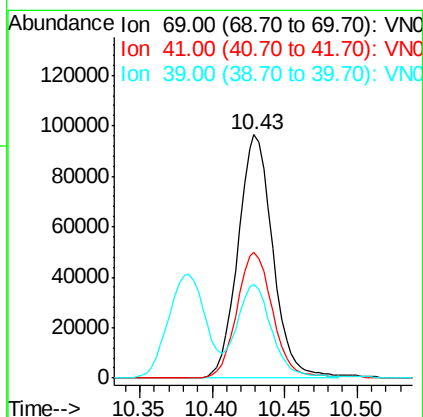
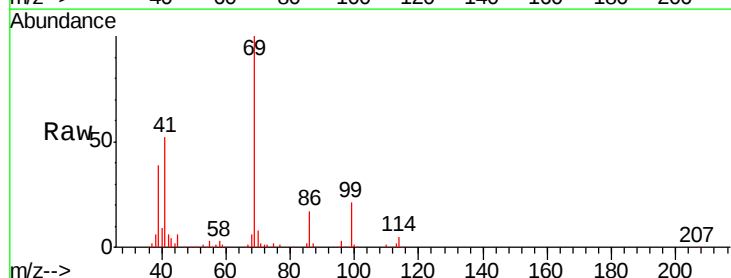
Manual Integrations
 APPROVED

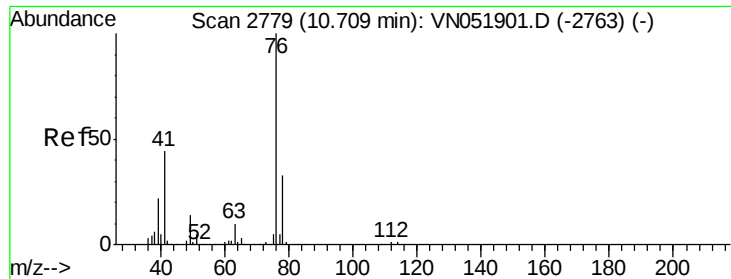
MMDadoda
 10/19/2018 3:29:15 PM



#56
 Ethyl methacrylate
 Concen: 20.07 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
69	100		
41	52.7	40.6	61.0
39	38.0	29.4	44.0





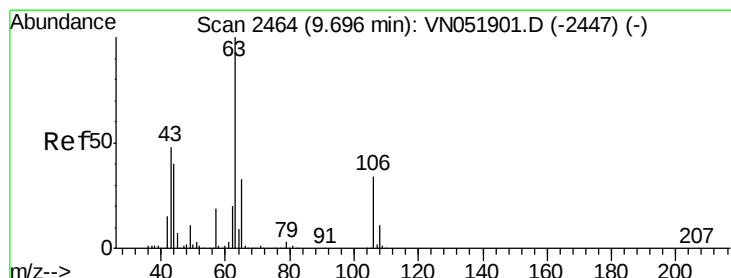
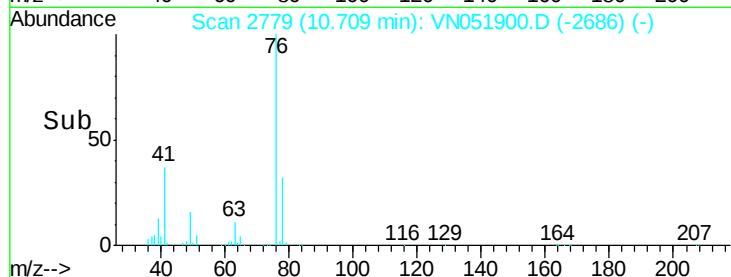
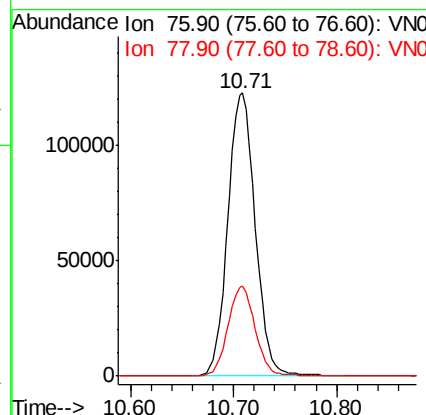
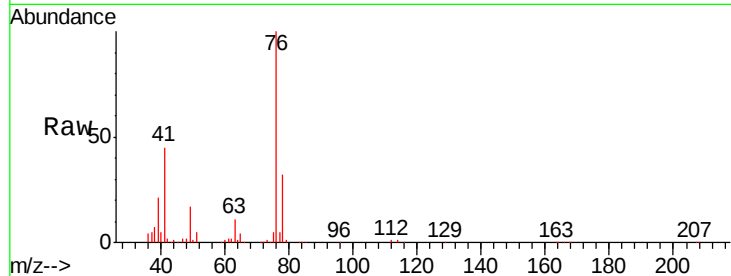
#57
 1,3-Dichloropropane
 Concen: 20.80 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
76	100		
78	31.6	25.8	38.6

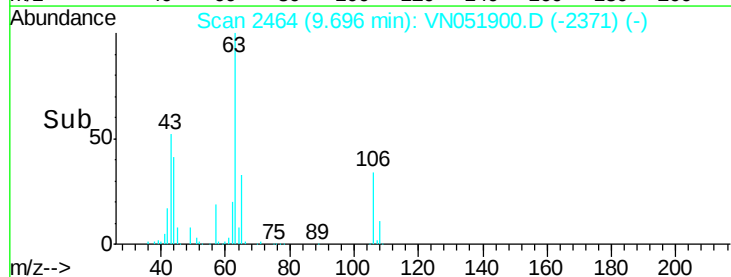
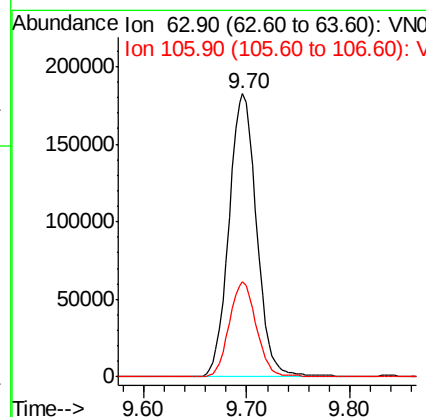
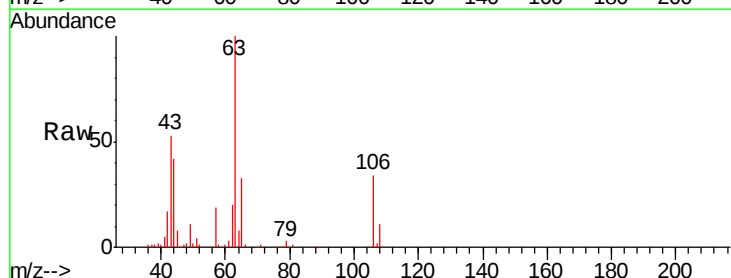
Manual Integrations
 APPROVED

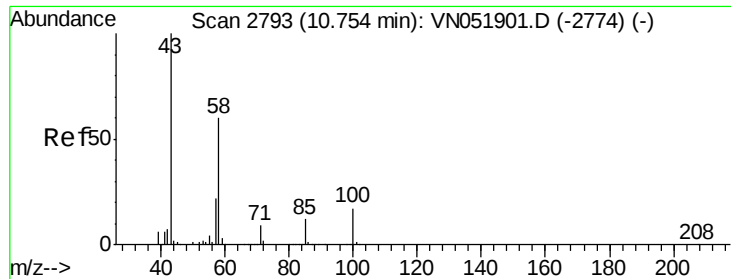
MMDadoda
 10/19/2018 3:29:15 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.47 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
63	100		
106	32.9	27.5	41.3





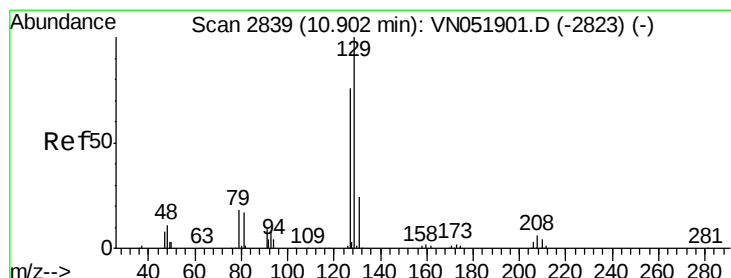
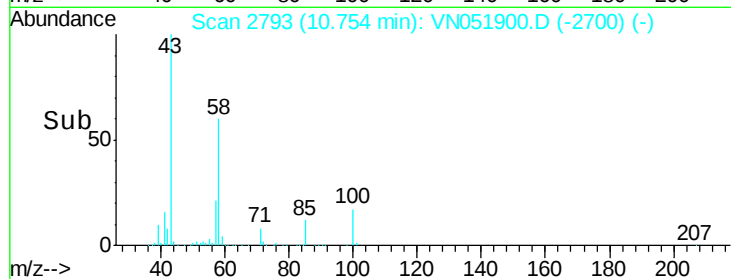
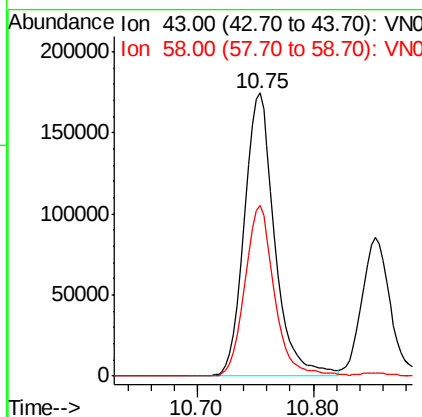
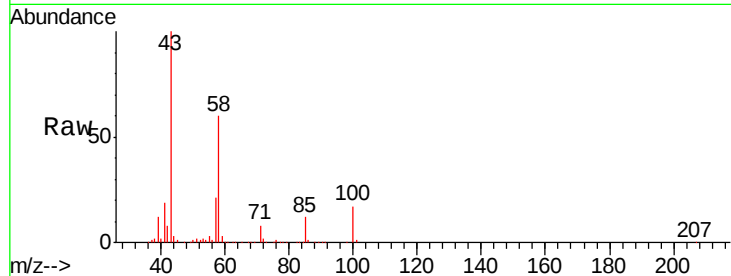
#59
2-Hexanone
Concen: 101.33 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 317061
Ion Ratio Lower Upper
43 100
58 58.9 29.8 89.5

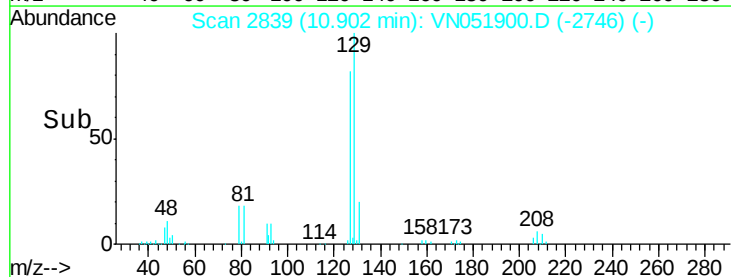
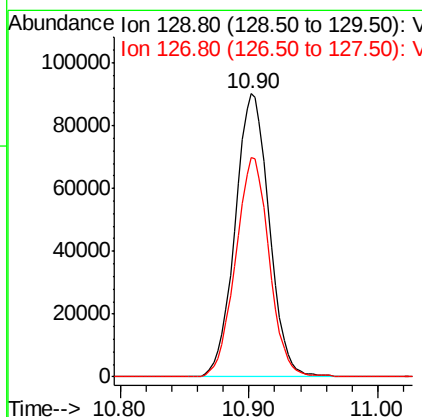
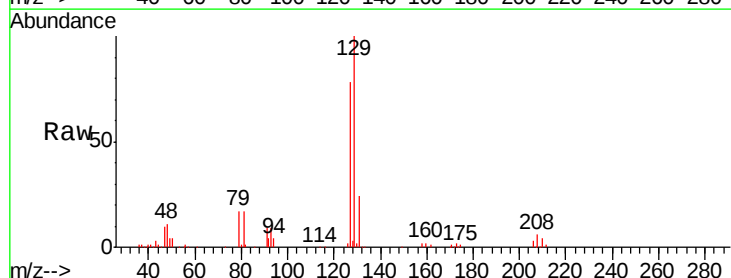
Manual Integrations
APPROVED

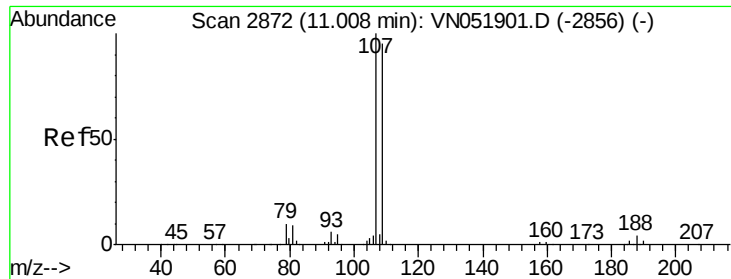
MMDadoda
10/19/2018 3:29:15 PM



#60
Dibromochloromethane
Concen: 19.65 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion: 129 Resp: 165559
Ion Ratio Lower Upper
129 100
127 76.5 38.3 114.8





#61

1,2-Dibromoethane

Concen: 19.97 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 107 Resp: 150323

Ion Ratio Lower Upper

107 100

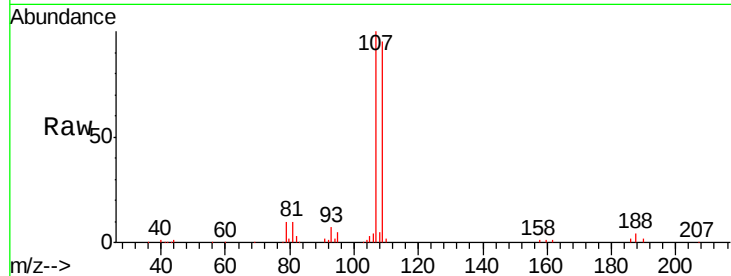
109 96.1 75.0 112.6

Manual Integrations

APPROVED

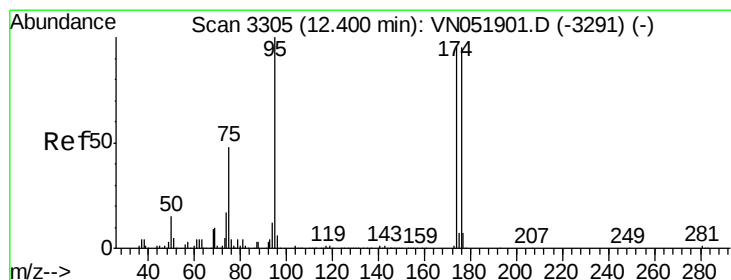
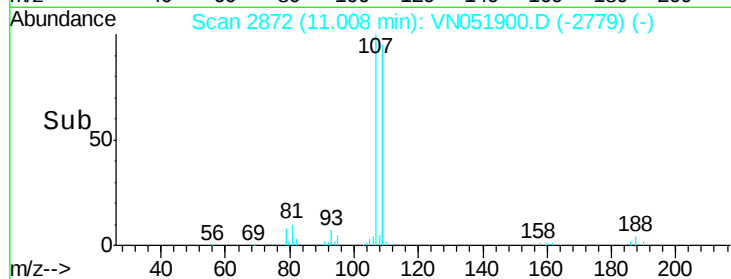
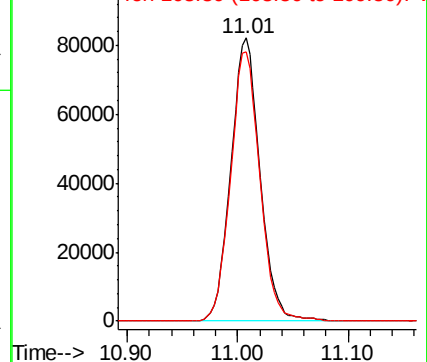
MMDadoda

10/19/2018 3:29:15 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 19.97 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

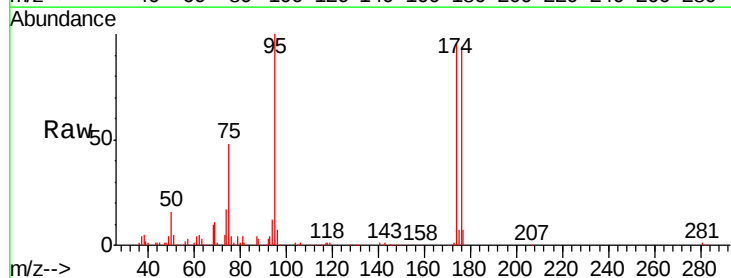
Tgt Ion: 95 Resp: 186221

Ion Ratio Lower Upper

95 100

174 96.9 0.0 195.0

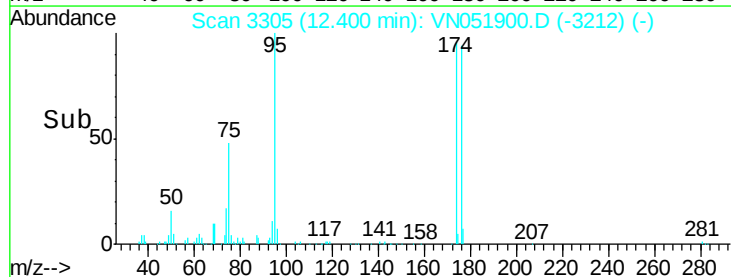
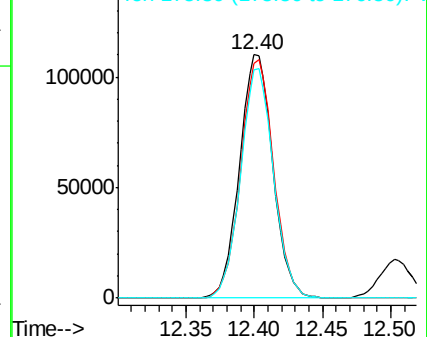
176 93.3 0.0 191.4

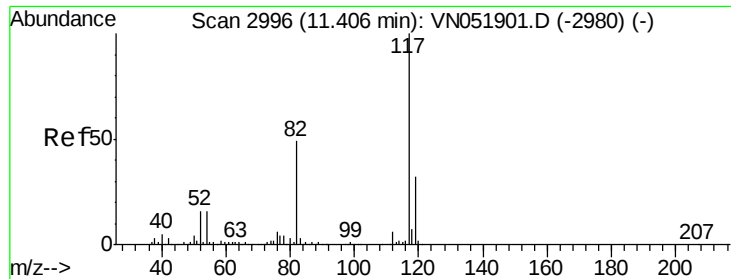


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





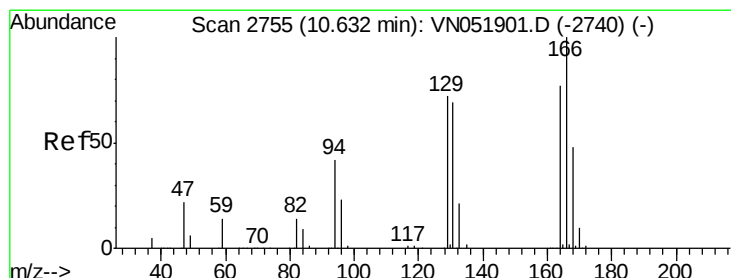
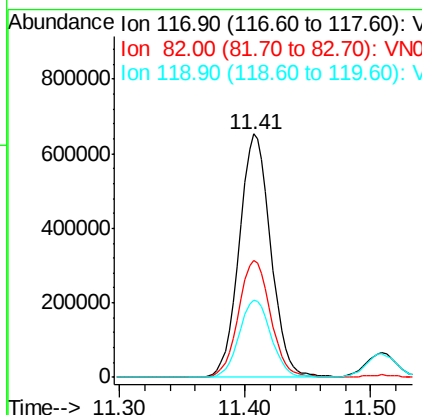
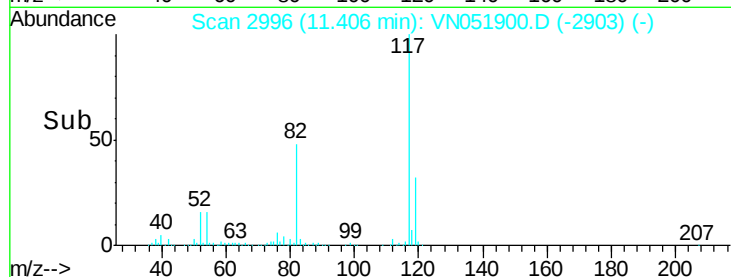
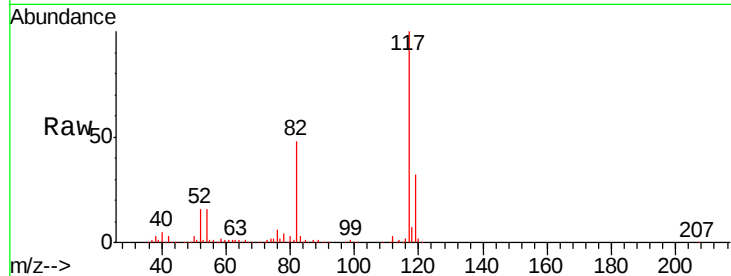
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion:117 Resp: 1140306
Ion Ratio Lower Upper
117 100
82 48.2 38.9 58.3
119 31.8 25.9 38.9

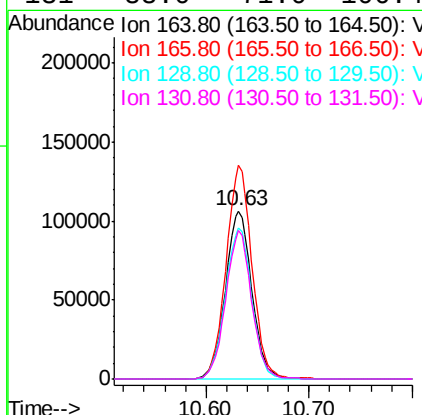
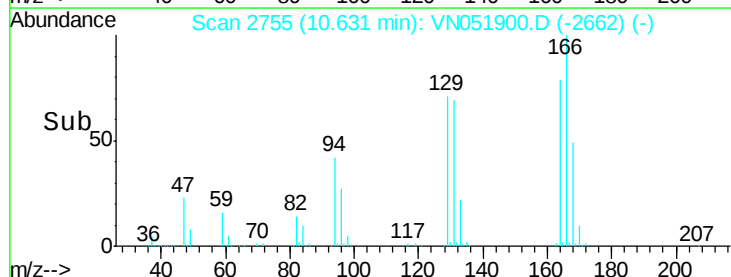
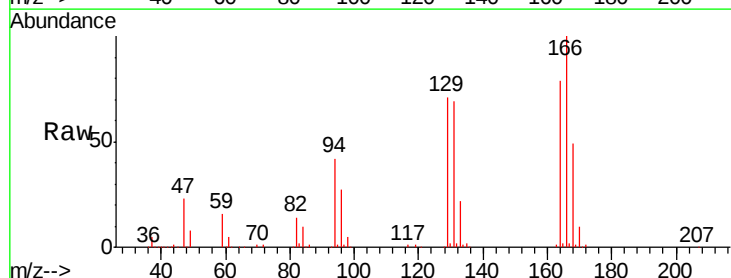
Manual Integrations
APPROVED

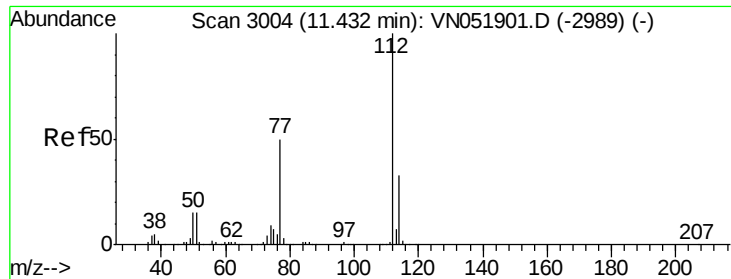
MMDadoda
10/19/2018 3:29:15 PM



#64
Tetrachloroethene
Concen: 20.71 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion:164 Resp: 189550
Ion Ratio Lower Upper
164 100
166 127.0 103.4 155.0
129 89.6 73.9 110.9
131 88.0 71.0 106.4





#65

Chlorobenzene

Concen: 19.94 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 454482

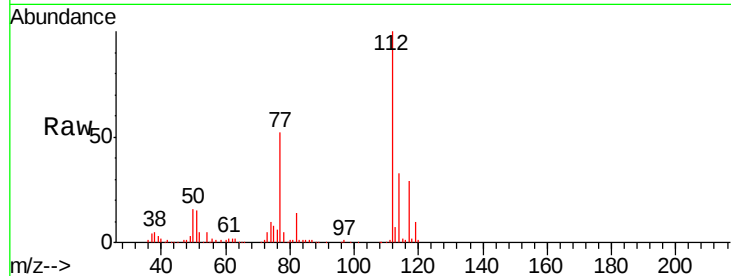
Ion Ratio Lower Upper

112 100

114 32.7 26.4 39.6

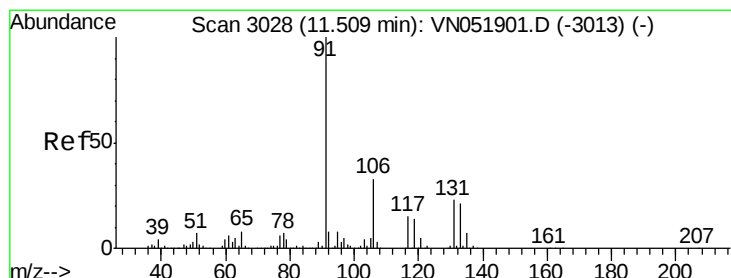
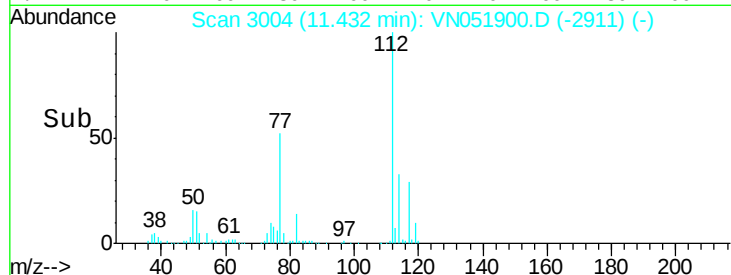
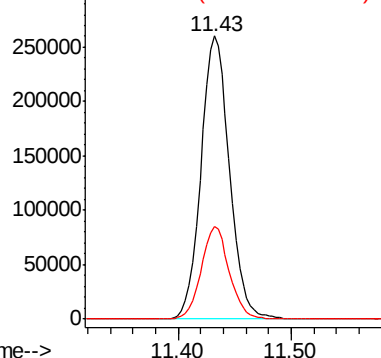
Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.16 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

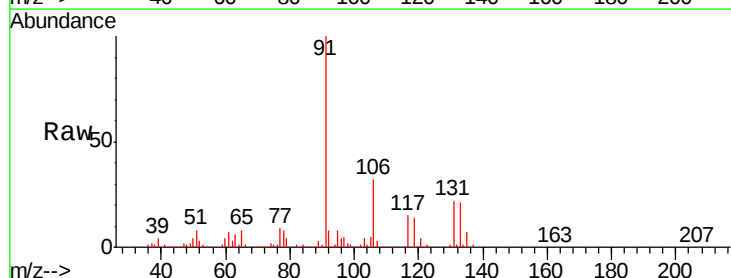
Tgt Ion:131 Resp: 171107

Ion Ratio Lower Upper

131 100

133 96.3 47.5 142.6

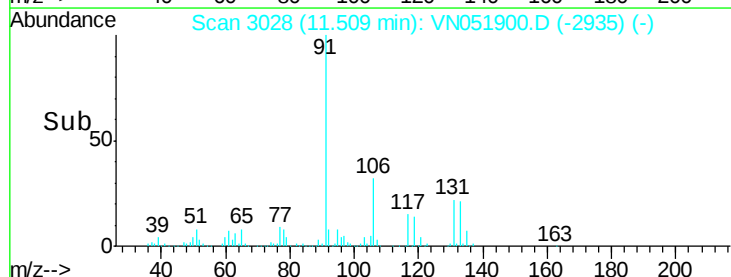
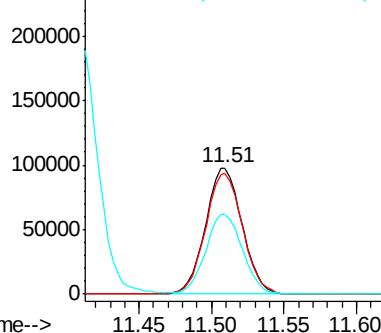
119 64.0 32.1 96.5

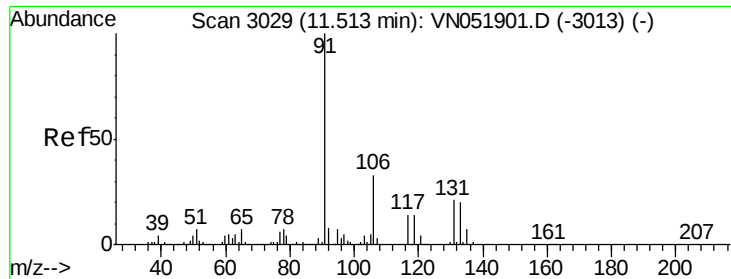


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





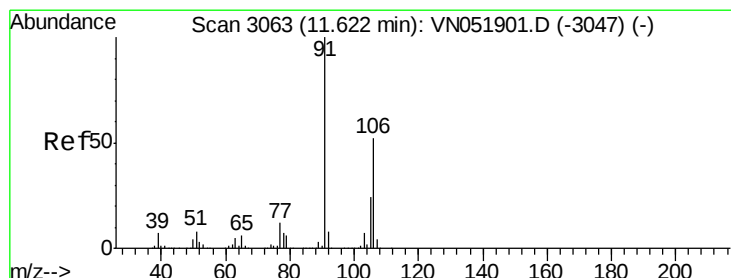
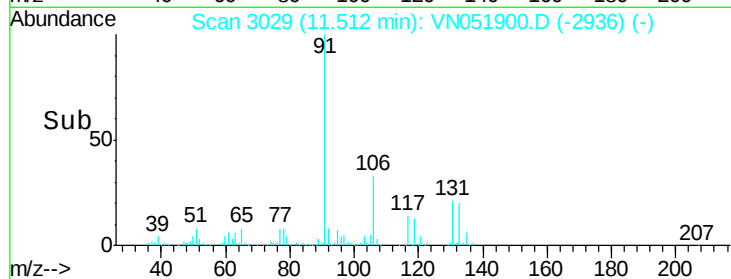
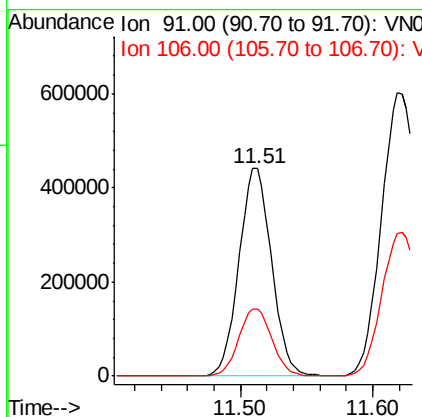
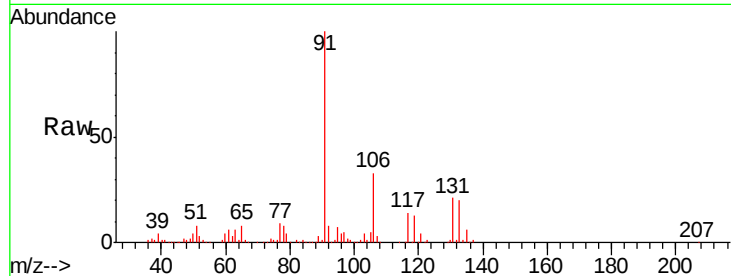
#67
Ethyl Benzene
Concen: 20.22 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 91 Resp: 755009
Ion Ratio Lower Upper
91 100
106 32.5 26.6 39.8

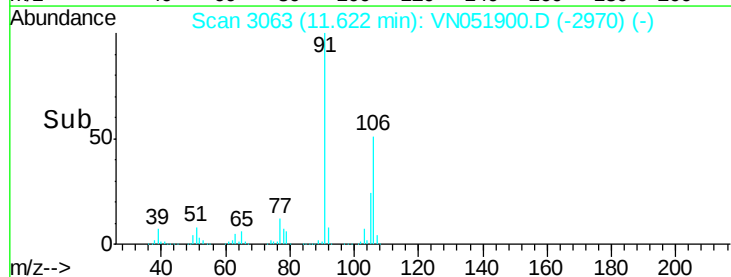
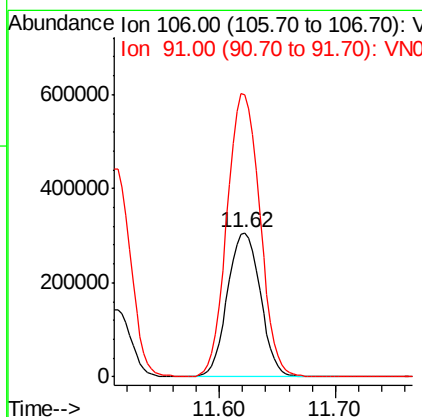
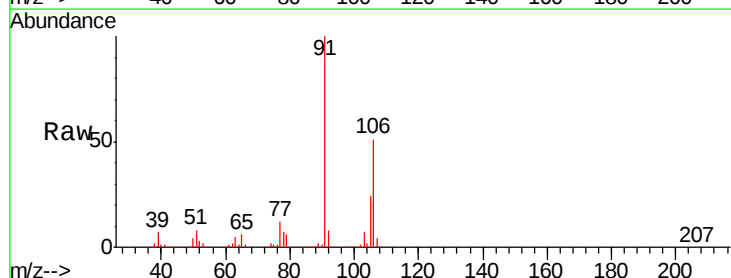
Manual Integrations
APPROVED

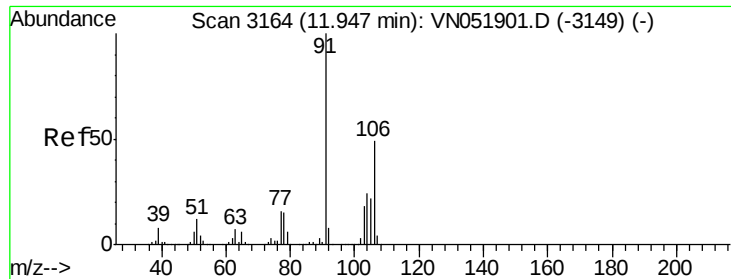
MMDadoda
10/19/2018 3:29:15 PM



#68
m/p-Xylenes
Concen: 40.28 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion: 106 Resp: 604072
Ion Ratio Lower Upper
106 100
91 196.4 153.6 230.4





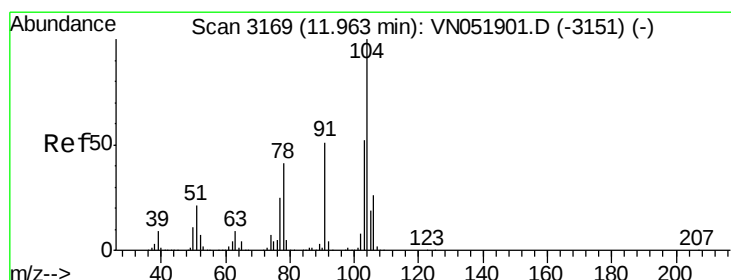
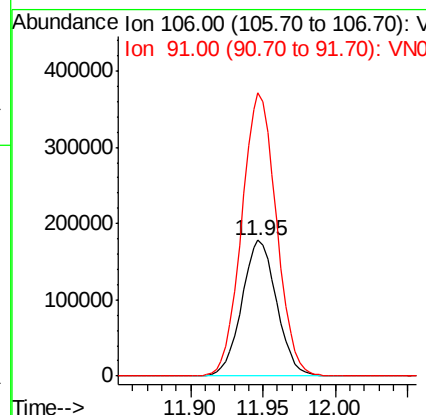
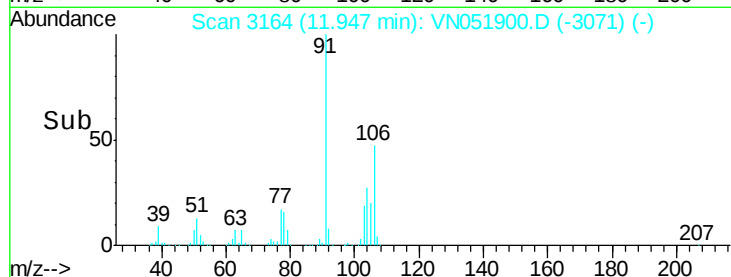
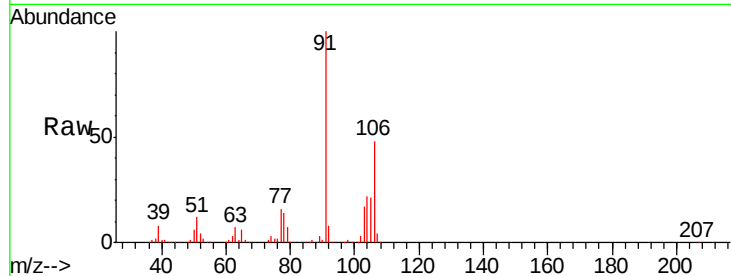
#69
o-Xylene
Concen: 20.30 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion:106 Resp: 296660
Ion Ratio Lower Upper
106 100
91 207.9 100.7 302.1

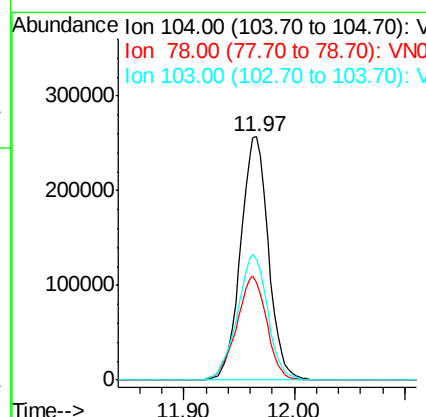
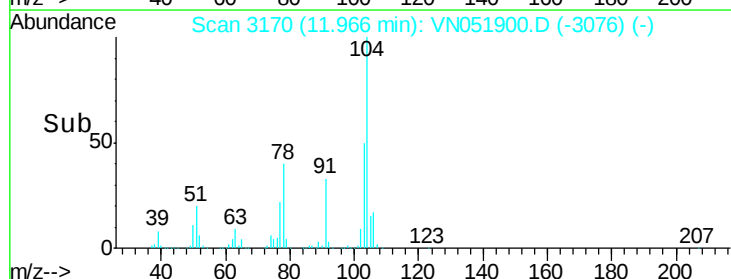
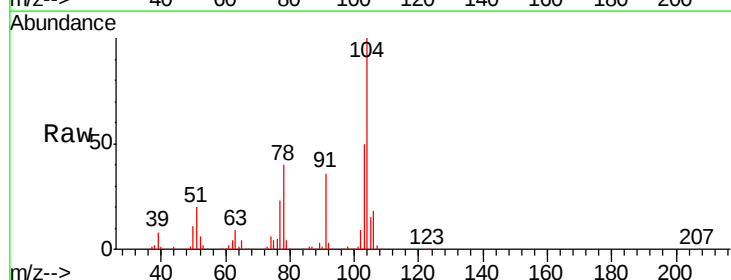
Manual Integrations
APPROVED

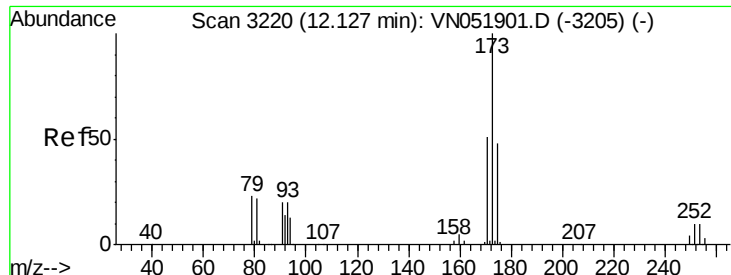
MMDadoda
10/19/2018 3:29:15 PM



#70
Styrene
Concen: 19.94 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion:104 Resp: 448359
Ion Ratio Lower Upper
104 100
78 46.4 36.6 55.0
103 56.3 44.6 67.0





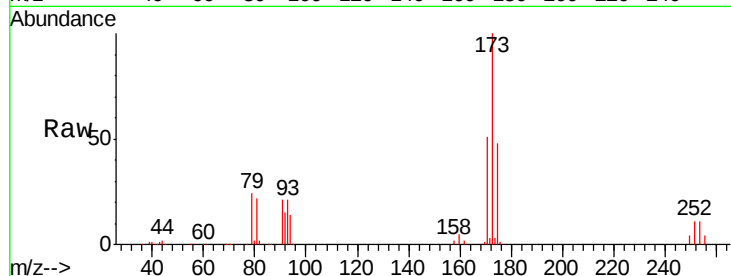
#71
Bromoform
Concen: 18.96 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

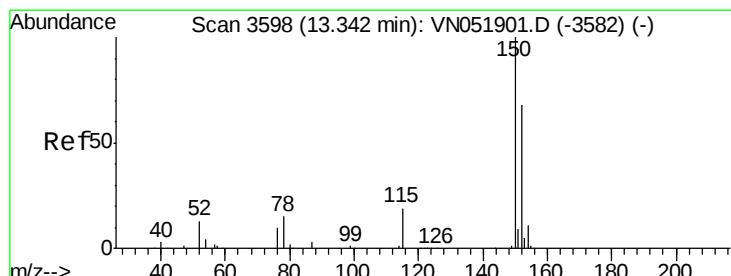
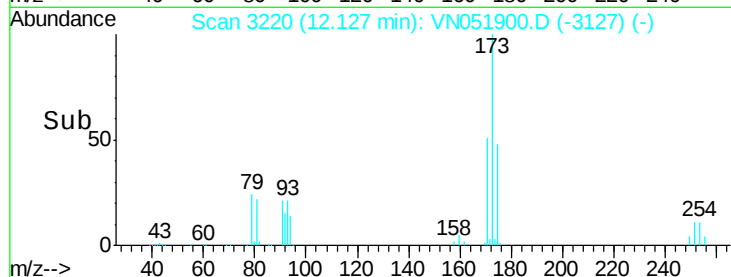
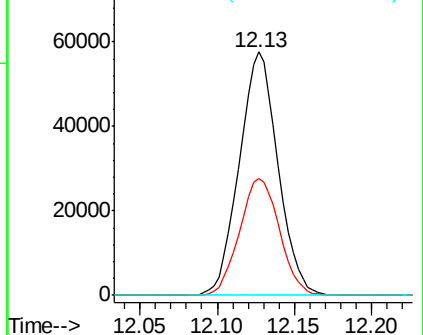
Tgt Ion	Ratio	Resp	Lower	Upper
173	100	100185		
175	49.5	24.0	72.0	
254	0.0	0.2	0.2	

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM

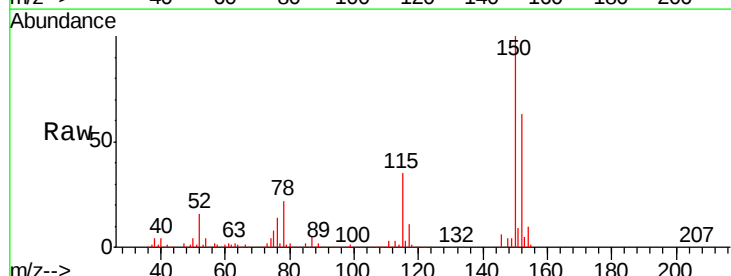


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

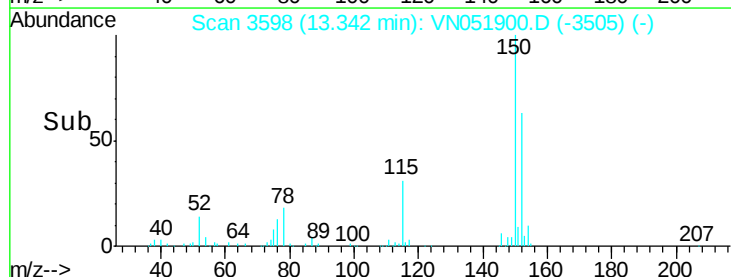
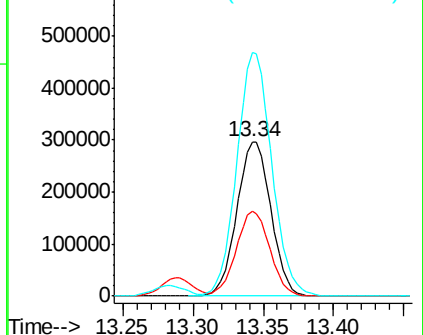


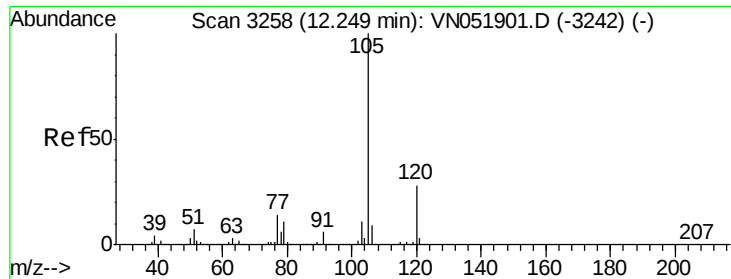
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	501138		
115	54.6	26.7	80.1	
150	162.3	0.0	346.4	



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.74 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 105 Resp: 804453

Ion Ratio Lower Upper

105 100

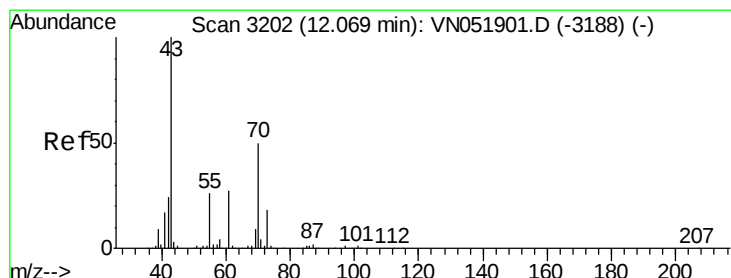
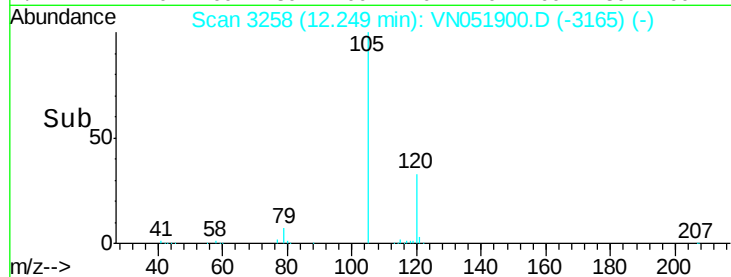
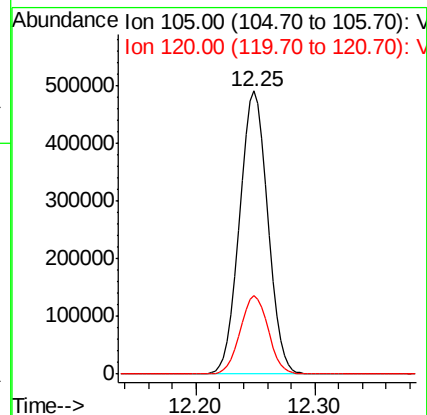
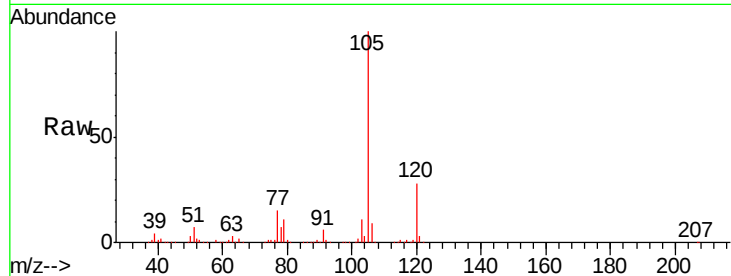
120 27.5 14.0 41.9

Manual Integrations

APPROVED

MMDadoda

10/19/2018 3:29:15 PM



#74

N-ethyl acetate

Concen: 20.35 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Tgt Ion: 43 Resp: 135727

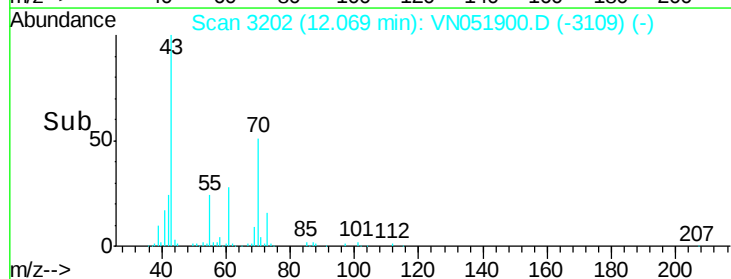
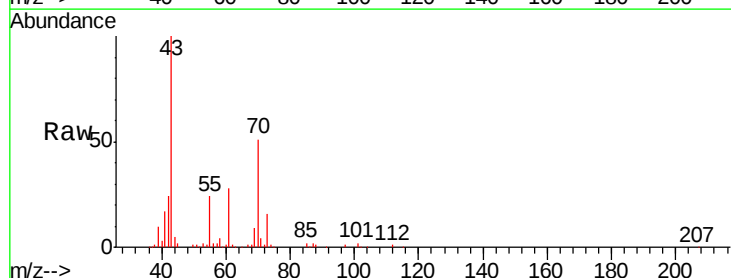
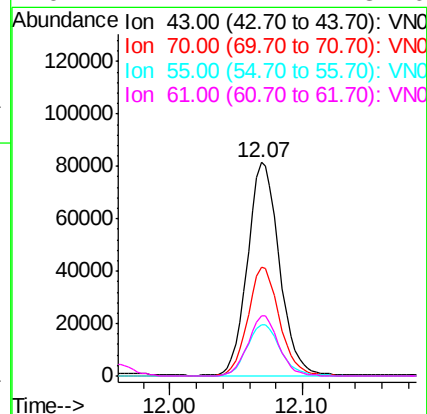
Ion Ratio Lower Upper

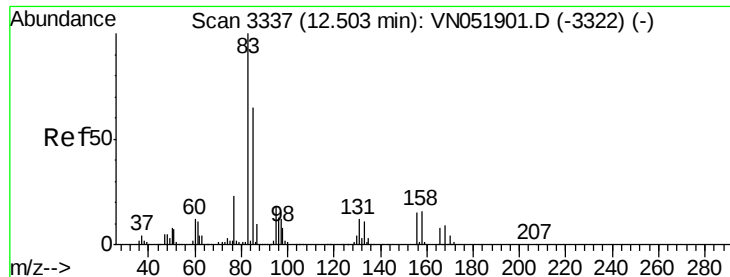
43 100

70 50.9 40.1 60.1

55 25.5 21.0 31.4

61 27.2 21.4 32.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.26 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 166718
Ion Ratio Lower Upper

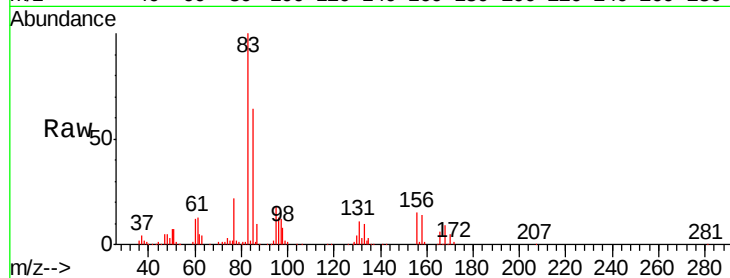
83 100

131 11.6 6.2 18.6

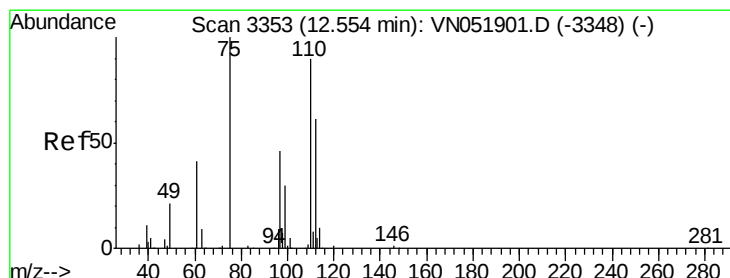
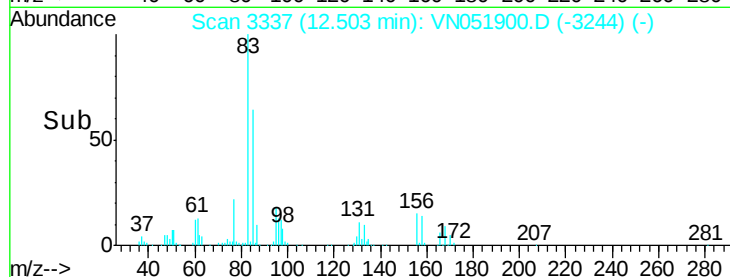
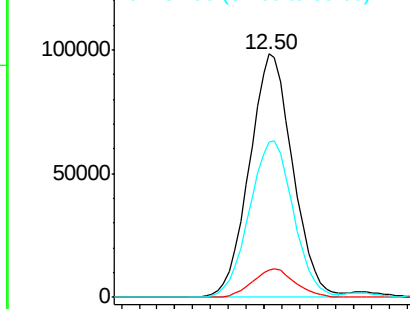
85 65.2 32.6 97.7

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 130.80 (130.50 to 131.50): VNC
Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 20.71 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

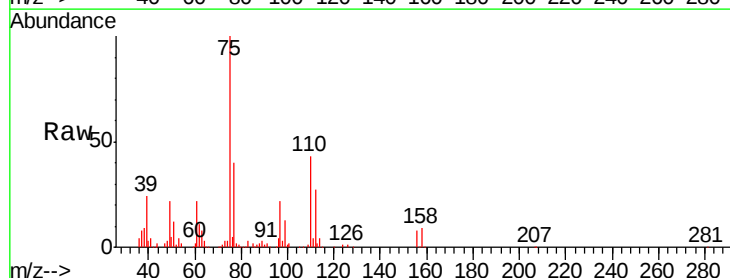
Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

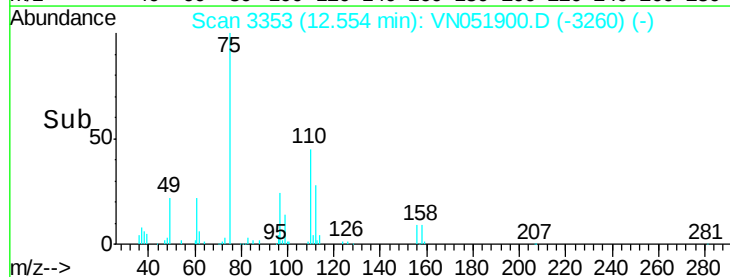
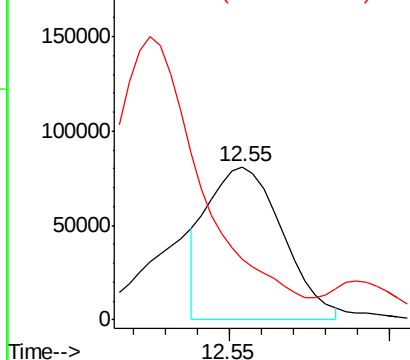
Tgt Ion: 75 Resp: 131223
Ion Ratio Lower Upper

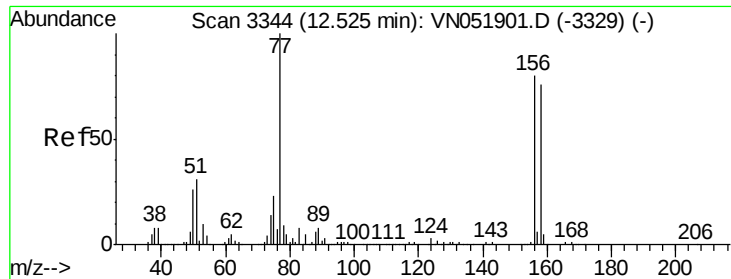
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNC
Ion 77.00 (76.70 to 77.70): VNC





#77

Bromobenzene

Concen: 19.73 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

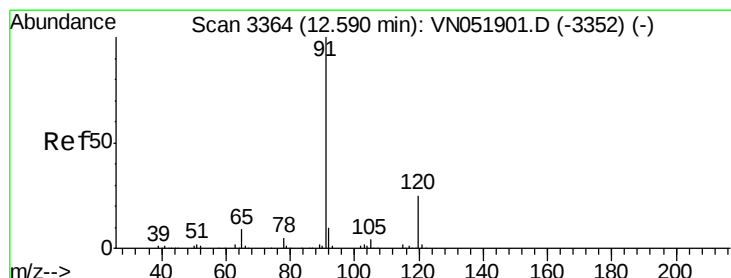
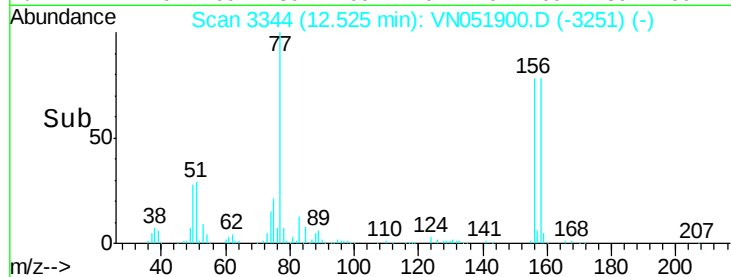
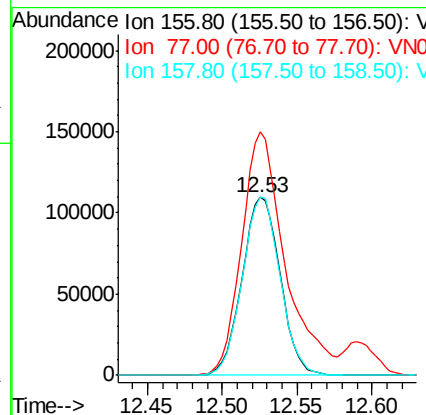
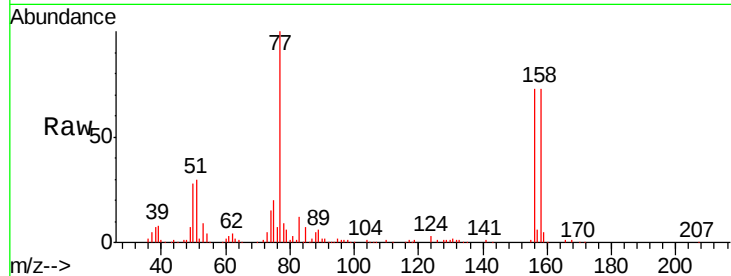
ClientSampleId :

VSTDIC020

Tgt Ion	Ratio	Lower	Upper
156	100		
77	156.6	73.0	219.0
158	99.2	48.4	145.0

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



#78

n-propylbenzene

Concen: 20.71 ug/l

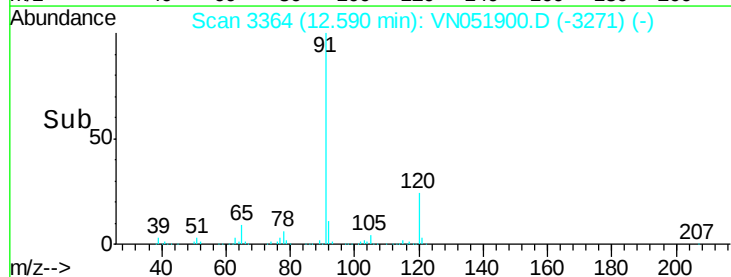
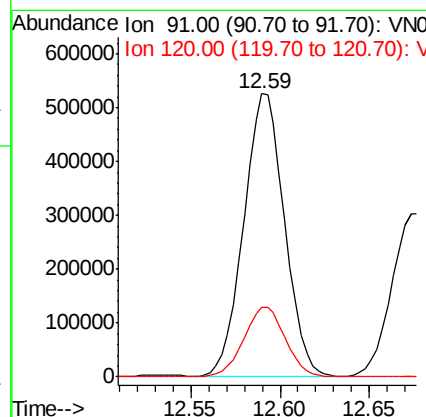
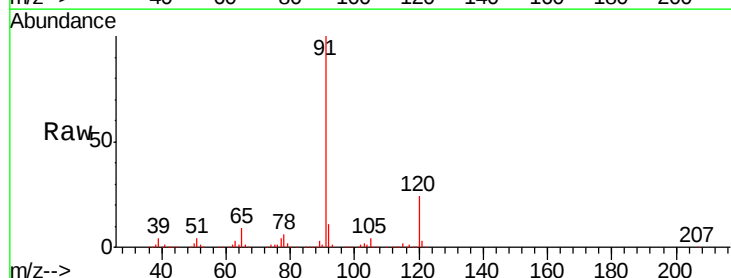
RT: 12.59 min Scan# 3364

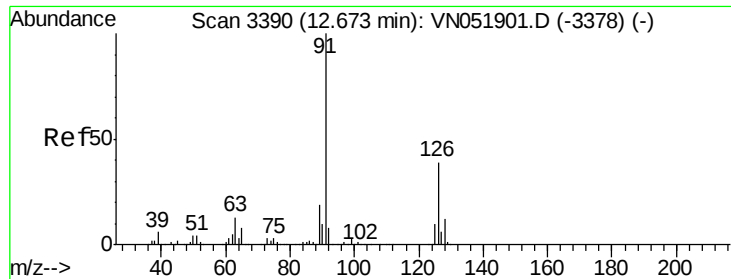
Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
91	100		
120	25.1	12.9	38.7





#79

2-Chlorotoluene

Concen: 20.41 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 501620

Ion Ratio Lower Upper

91 100

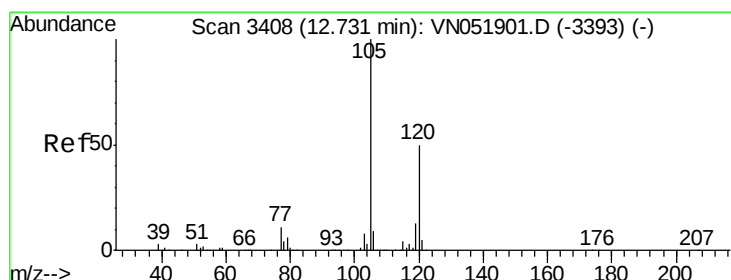
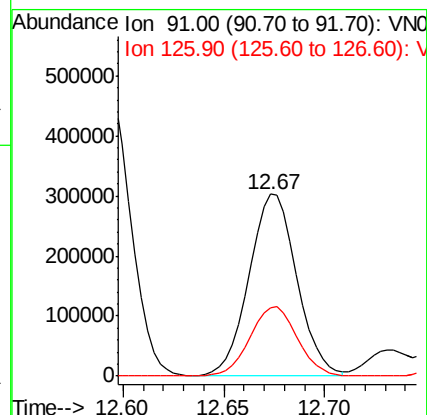
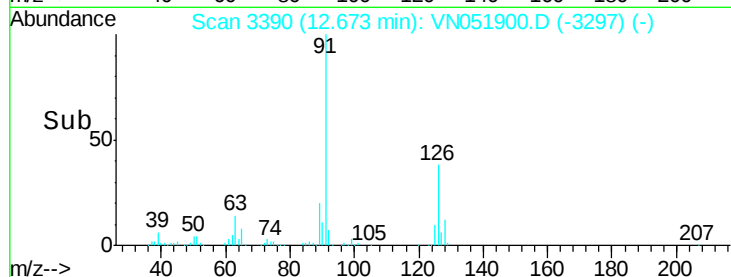
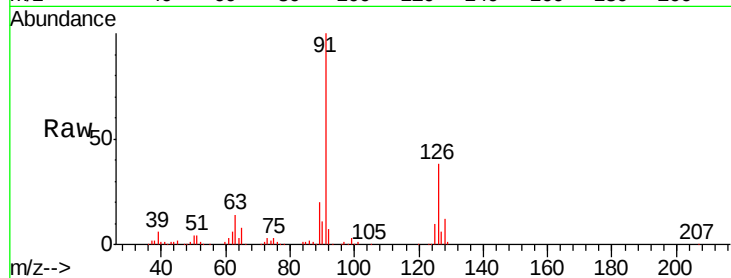
126 38.1 19.6 58.7

Manual Integrations

APPROVED

MMDadoda

10/19/2018 3:29:15 PM



#80

1,3,5-Trimethylbenzene

Concen: 20.66 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051900.D

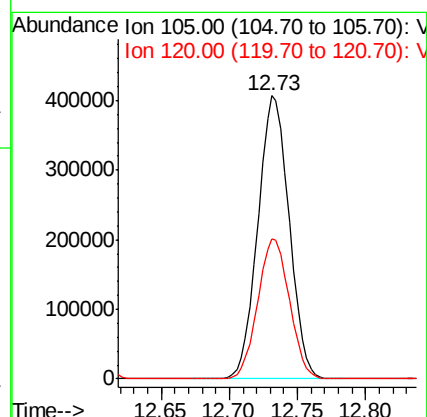
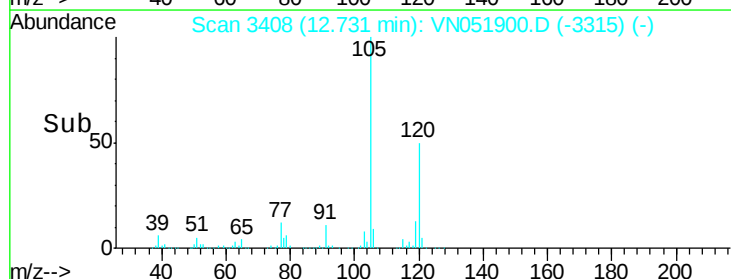
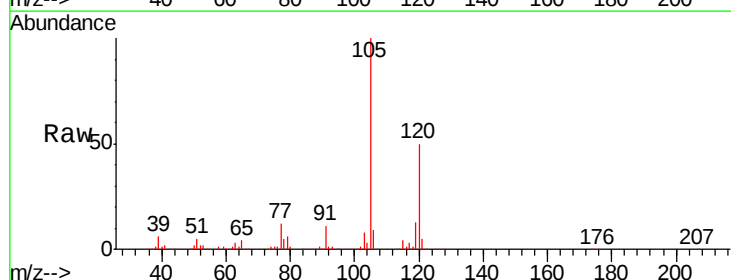
Acq: 17 Oct 2018 9:46

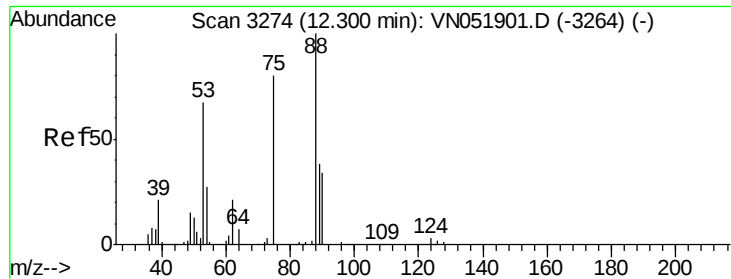
Tgt Ion: 105 Resp: 647794

Ion Ratio Lower Upper

105 100

120 50.1 25.3 75.9





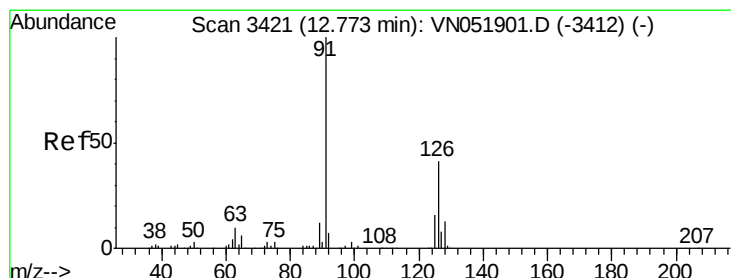
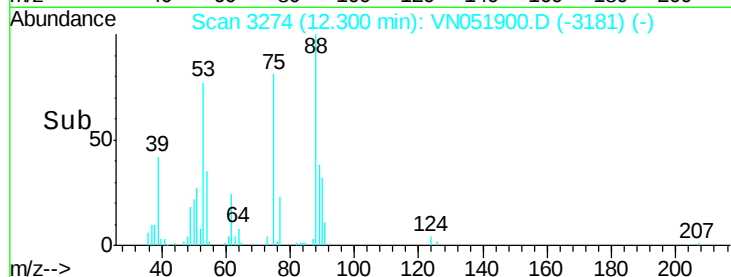
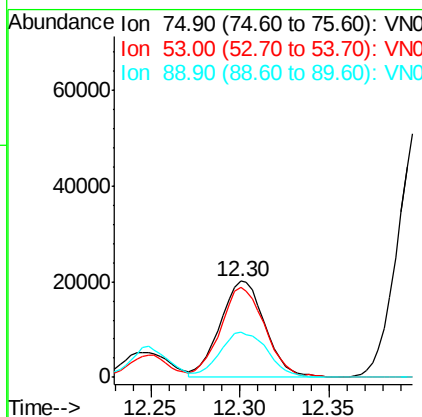
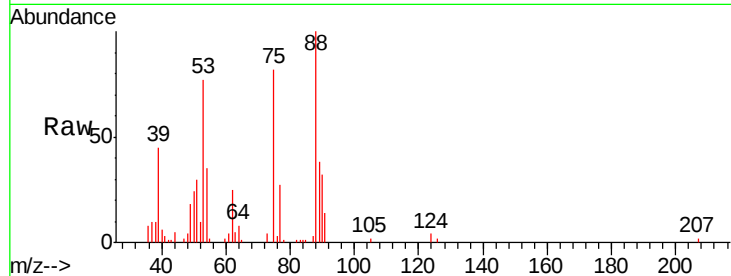
#81
trans-1,4-Dichloro-2-butene
Concen: 21.02 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
75	100		
53	93.5	68.5	102.7
89	48.9	39.0	58.6

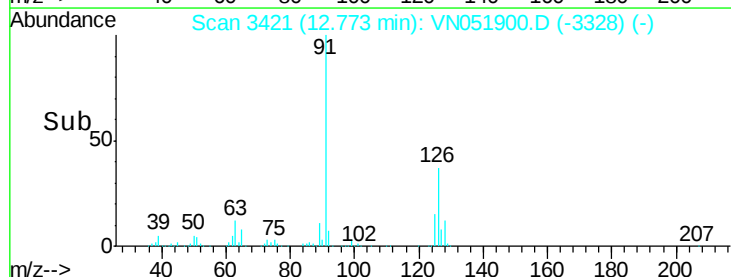
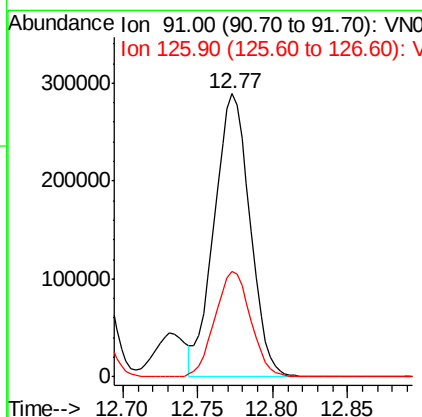
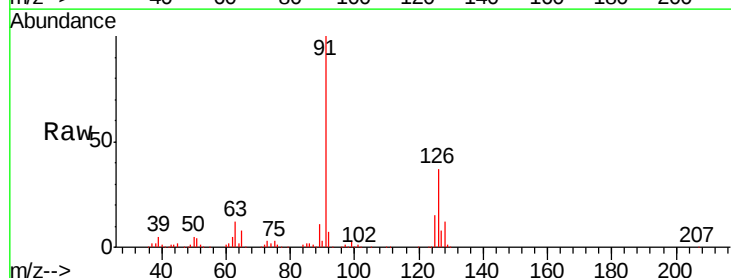
Manual Integrations
APPROVED

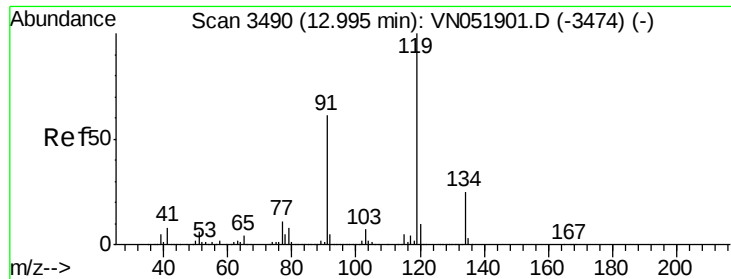
MMDadoda
10/19/2018 3:29:15 PM



#82
4-Chlorotoluene
Concen: 20.32 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.5	18.9	56.7





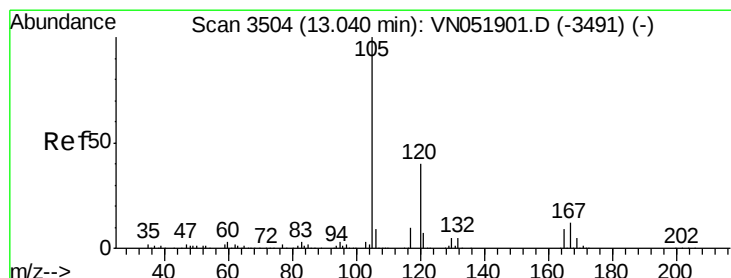
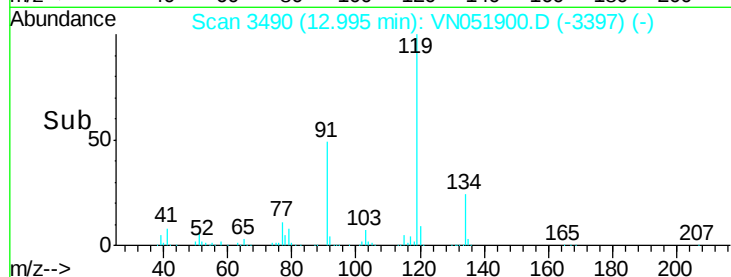
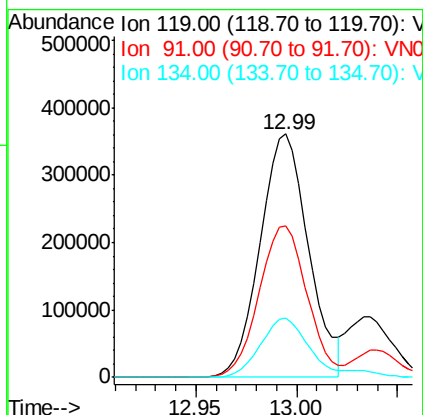
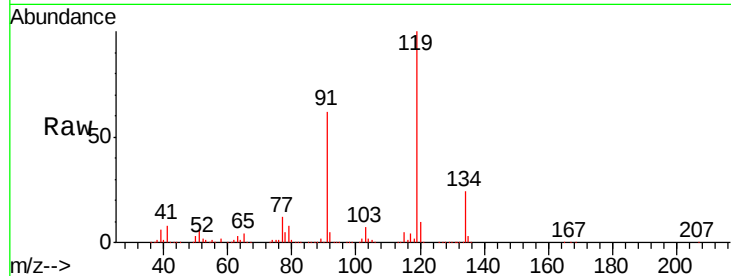
#83
 tert-Butylbenzene
 Concen: 20.52 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	604715		
91	61.5	30.3	90.9	
134	26.0	13.4	40.1	

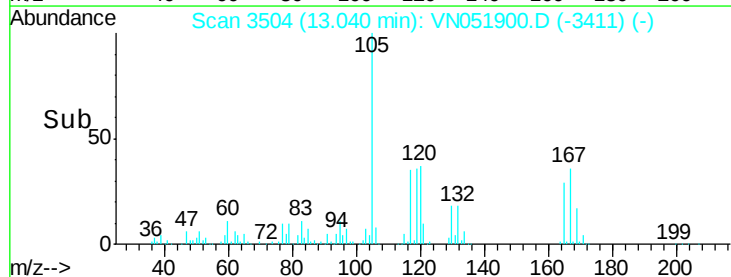
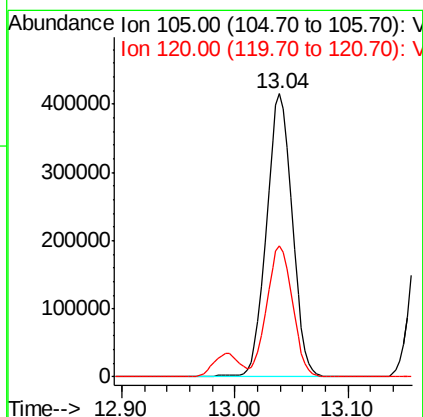
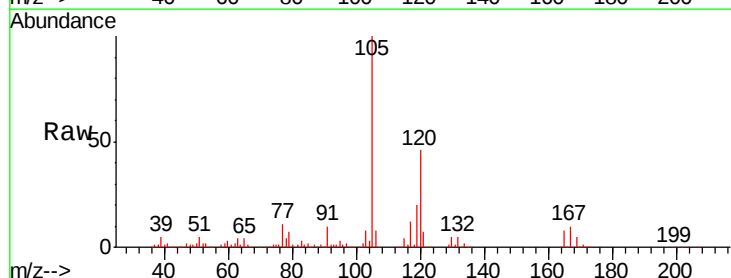
Manual Integrations
 APPROVED

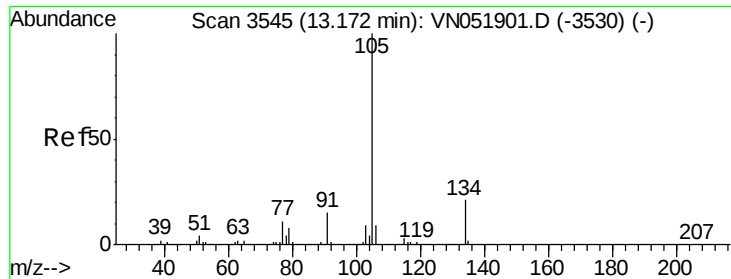
MMDadoda
 10/19/2018 3:29:15 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.26 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	655444		
120	46.5	23.8	71.4	





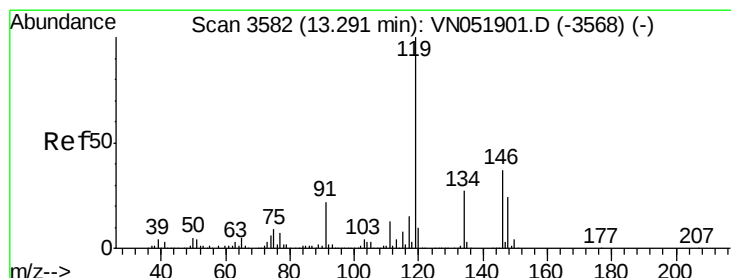
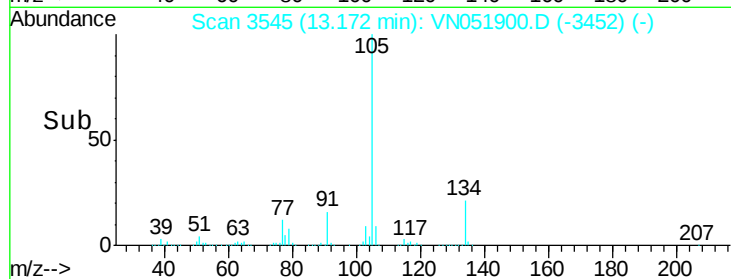
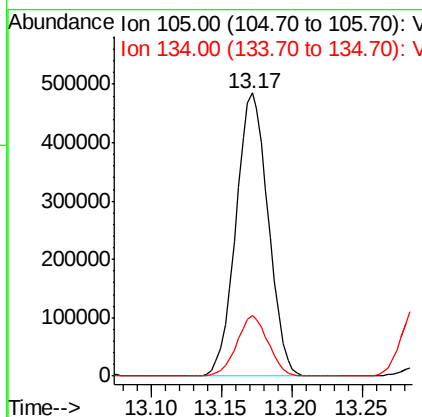
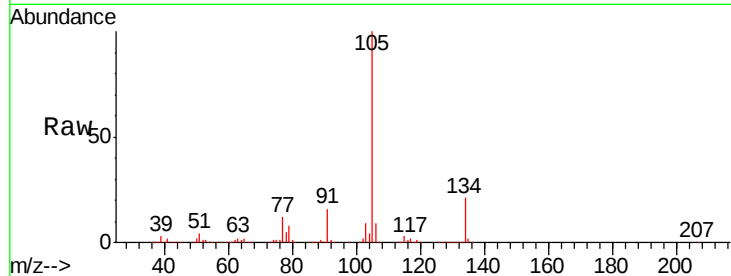
#85
 sec-Butylbenzene
 Concen: 20.73 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.8	32.3

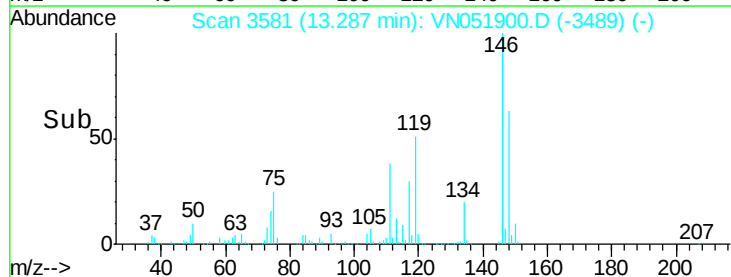
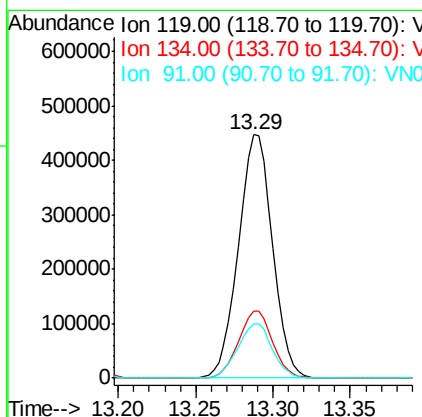
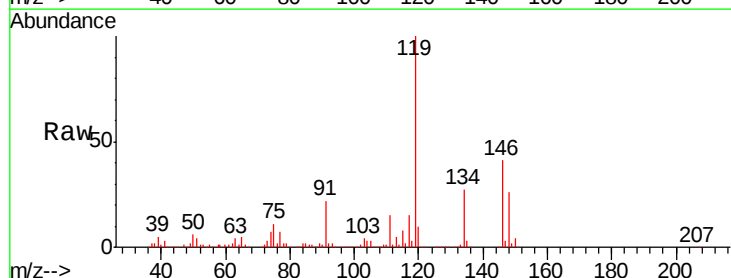
Manual Integrations
 APPROVED

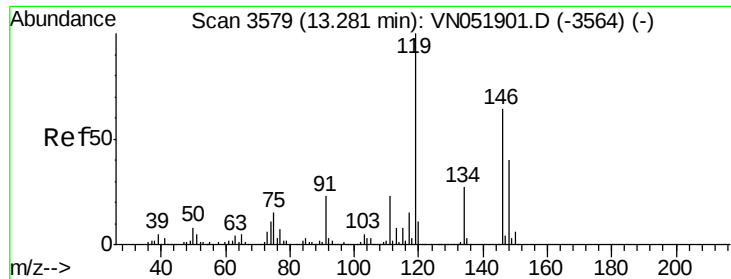
MMDadoda
 10/19/2018 3:29:15 PM



#86
 p-Isopropyltoluene
 Concen: 21.00 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.5	13.8	41.3
91	22.6	10.9	32.9





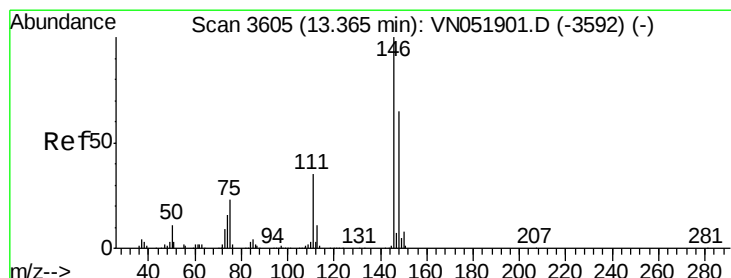
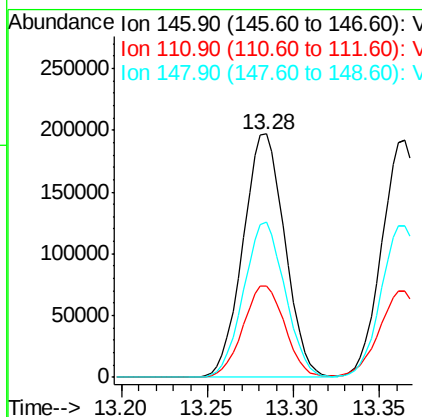
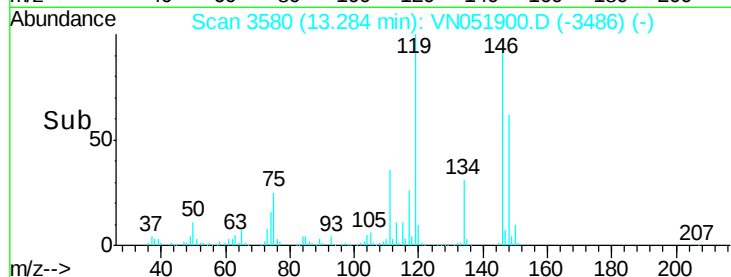
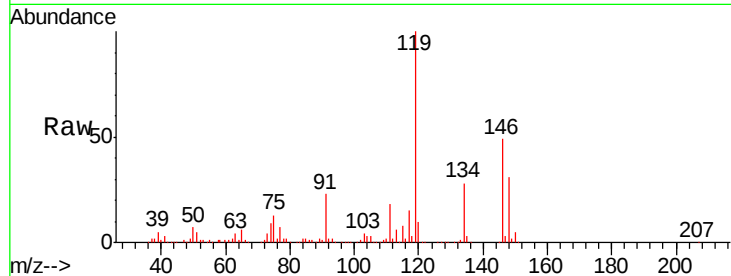
#87
 1,3-Dichlorobenzene
 Concen: 20.00 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.3	54.8
148	63.1	31.9	95.7

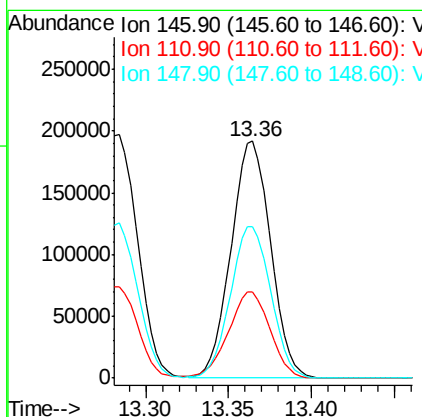
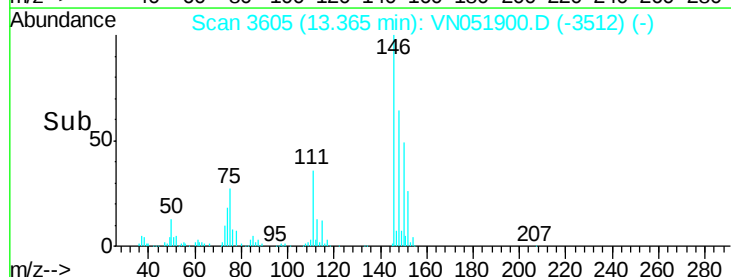
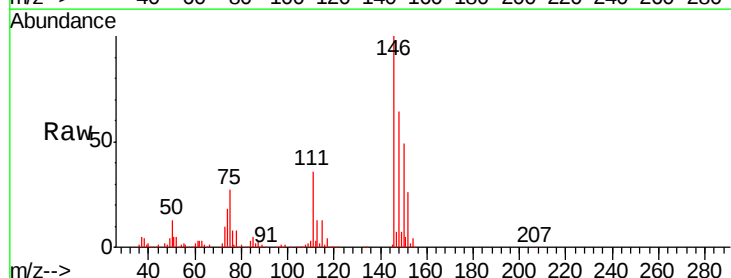
Manual Integrations
 APPROVED

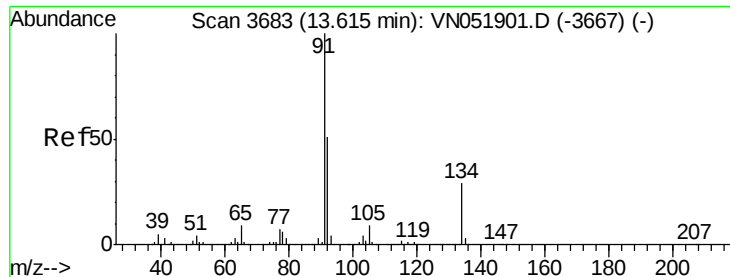
MMDadoda
 10/19/2018 3:29:15 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.55 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	17.9	53.7
148	65.3	32.8	98.3





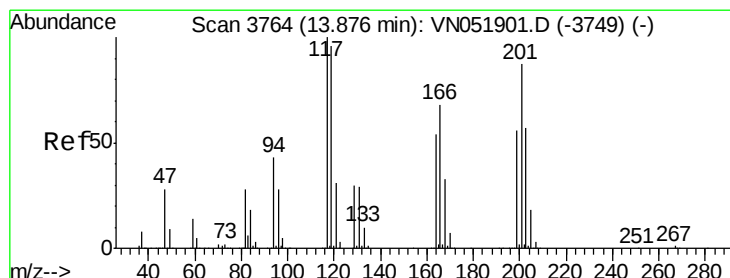
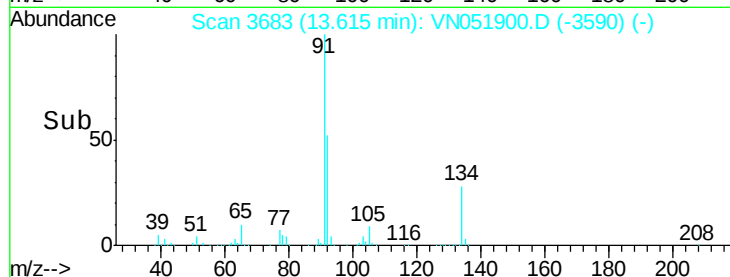
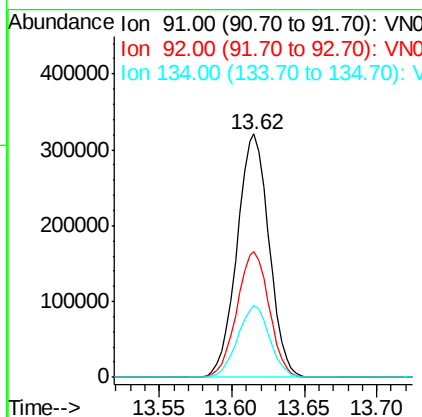
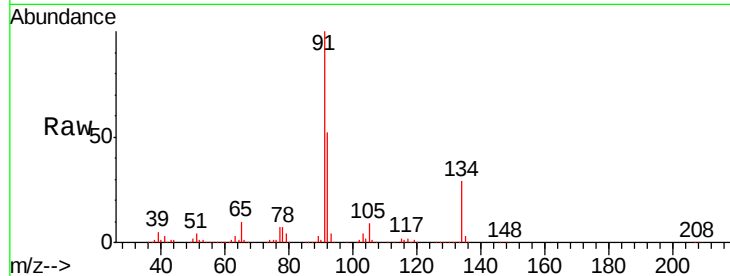
#89
n-Butylbenzene
Concen: 20.87 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.2	25.9	77.7
134	29.2	14.6	43.8

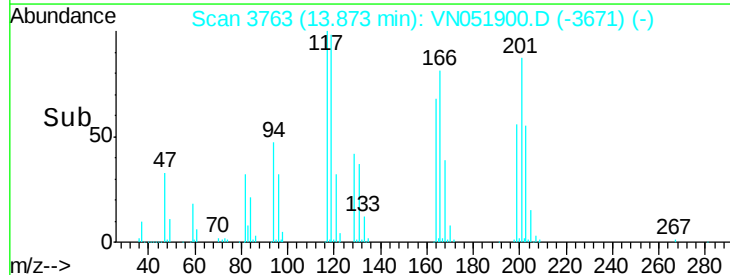
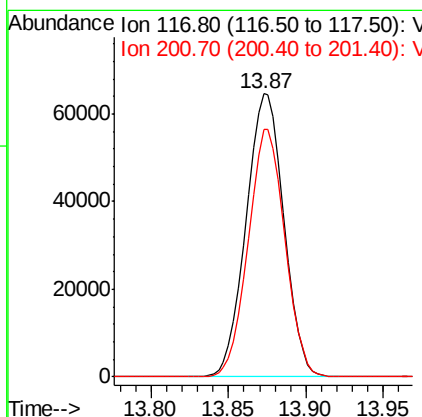
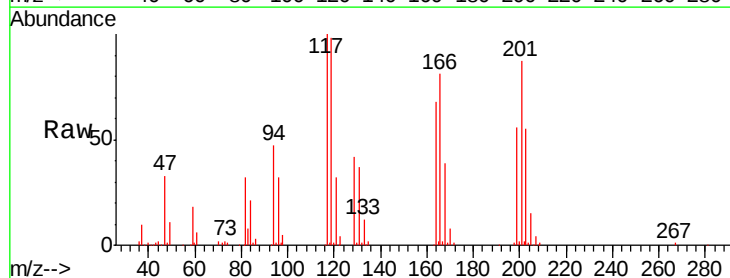
Manual Integrations
APPROVED

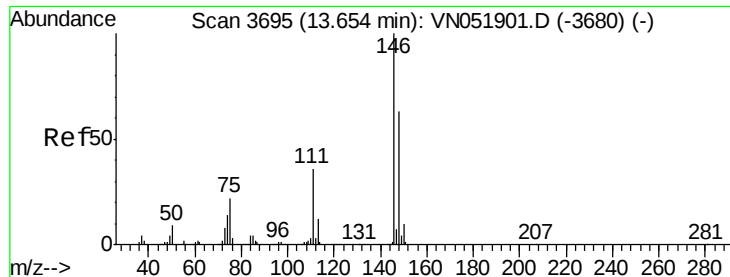
MMDadoda
10/19/2018 3:29:15 PM



#90
Hexachloroethane
Concen: 20.24 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN051900.D
Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.9	43.8	131.3





#91

1,2-Dichlorobenzene

Concen: 20.31 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

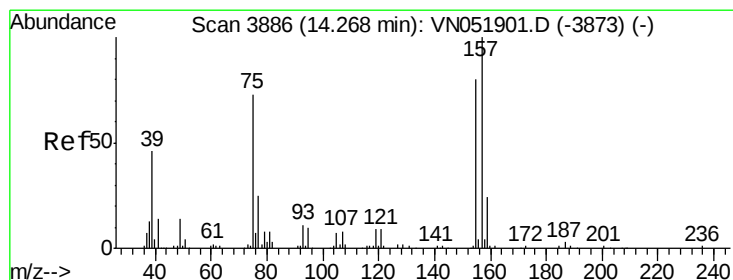
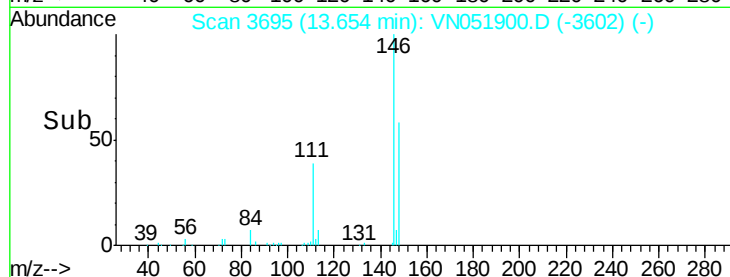
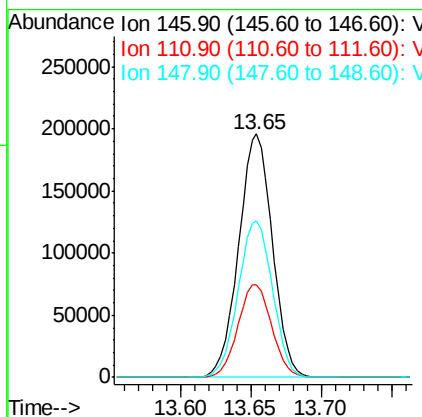
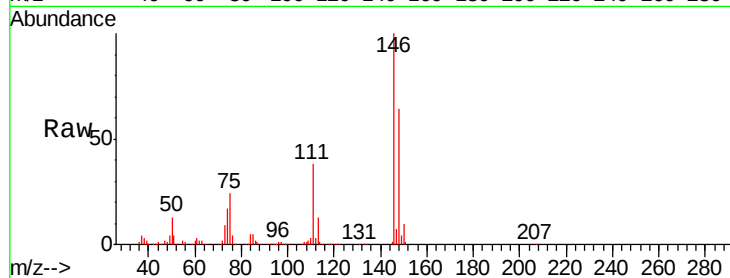
ClientSampleId :

VSTDIC020

Tgt Ion:	146	Resp:	327313
Ion Ratio	Lower	Upper	
146	100		
111	38.3	18.6	55.6
148	65.8	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.27 ug/l

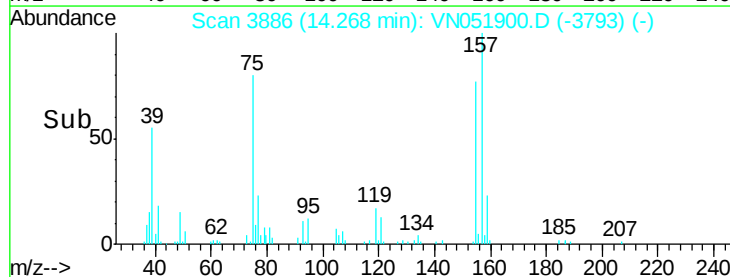
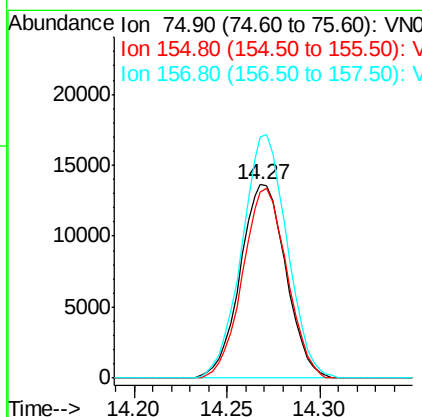
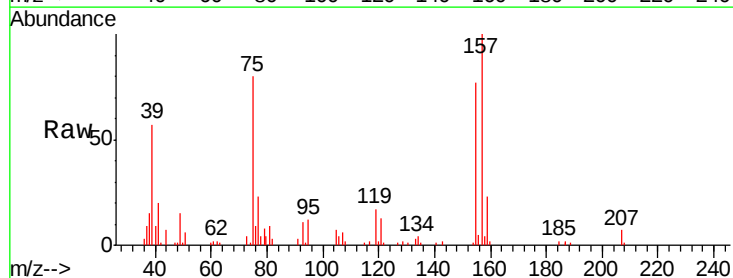
RT: 14.27 min Scan# 3886

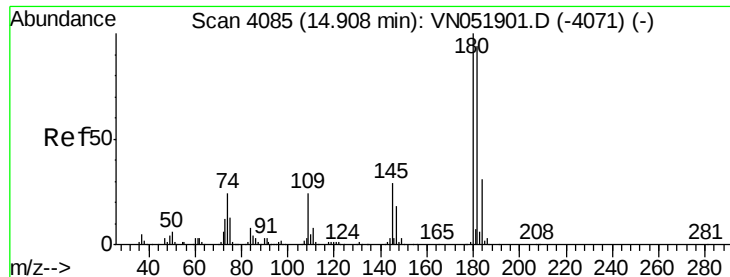
Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Tgt Ion:	75	Resp:	23395
Ion Ratio	Lower	Upper	
75	100		
155	95.1	53.4	160.2
157	125.0	69.3	207.9





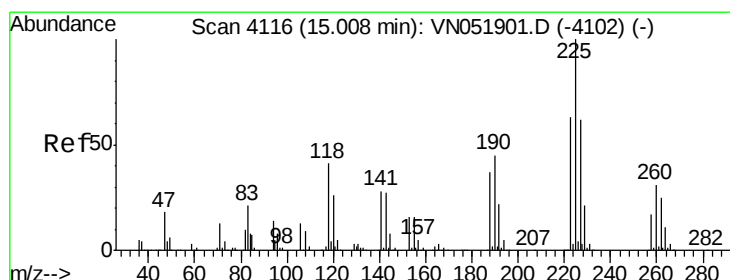
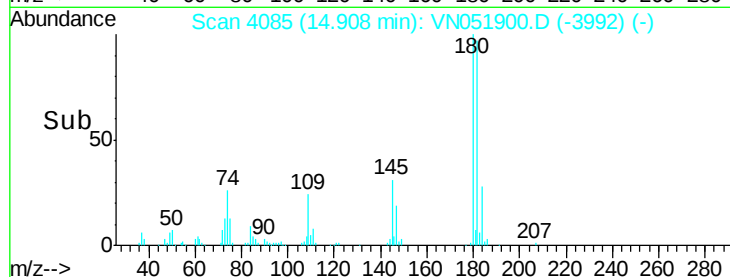
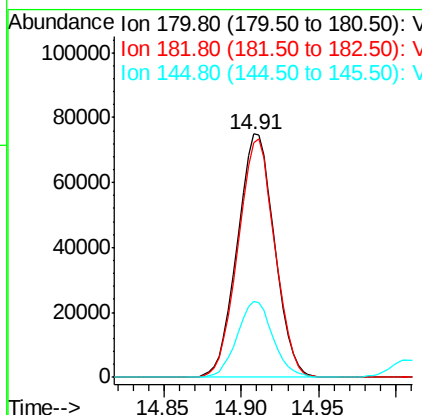
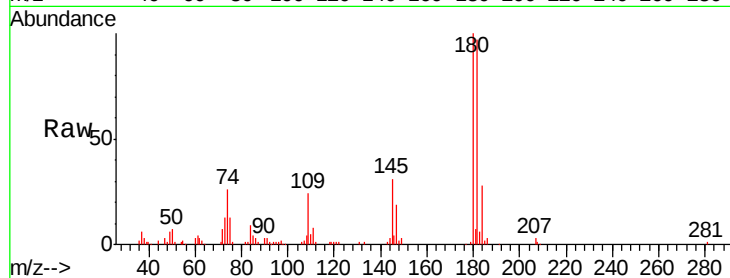
#93
 1,2,4-Trichlorobenzene
 Concen: 17.94 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	125222		
182	96.7	47.3	141.9	
145	30.0	14.5	43.5	

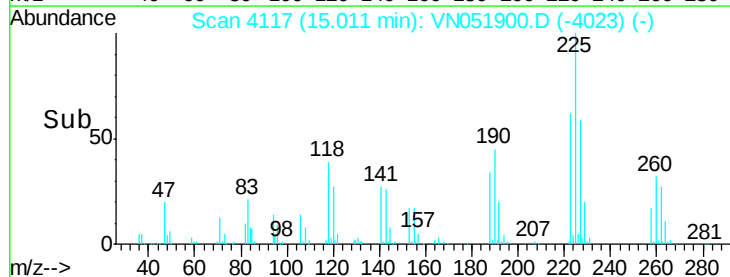
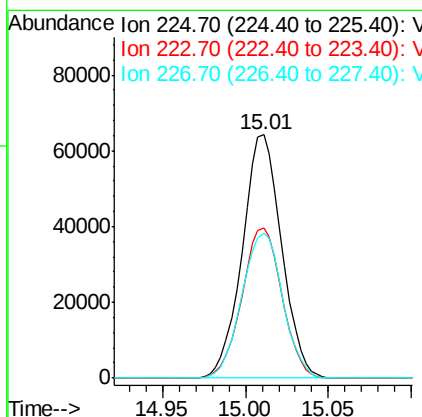
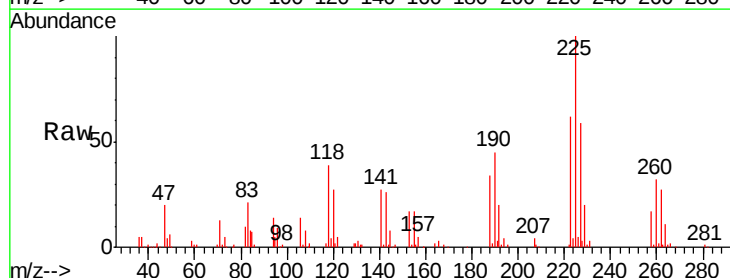
Manual Integrations
 APPROVED

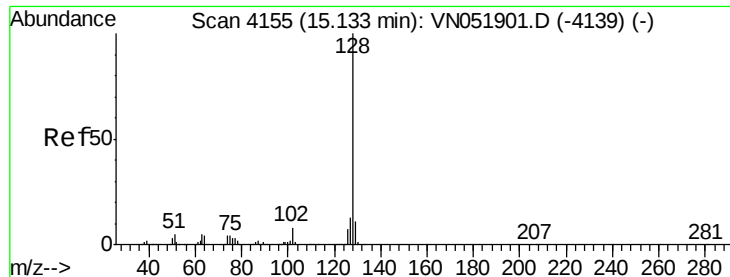
MMDadoda
 10/19/2018 3:29:15 PM



#94
 Hexachlorobutadiene
 Concen: 20.72 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051900.D
 Acq: 17 Oct 2018 9:46

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	105713		
223	62.9	32.0	96.2	
227	62.0	31.9	95.9	





#95

Naphthalene

Concen: 17.44 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Instrument :

MSVOA_N

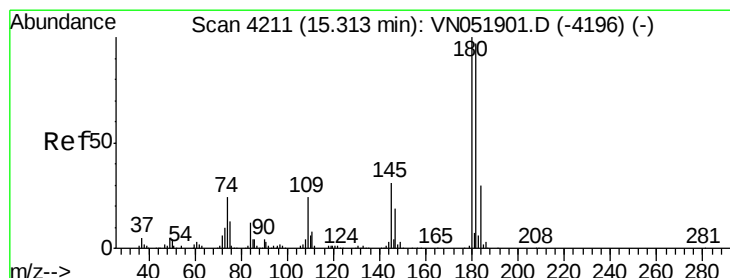
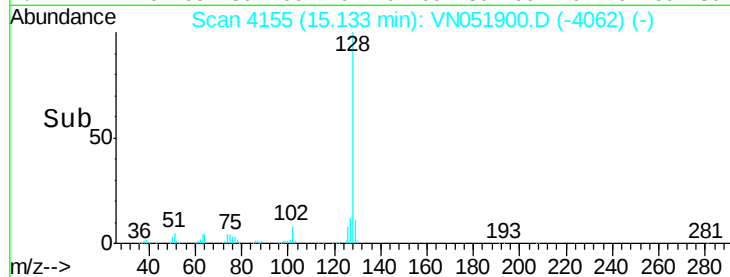
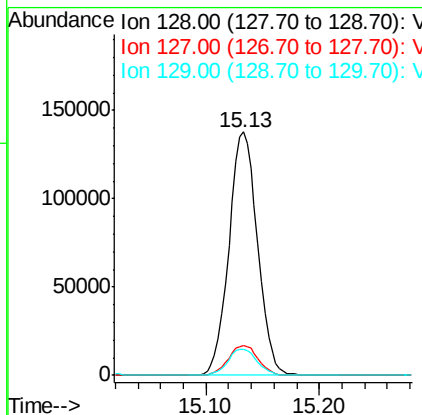
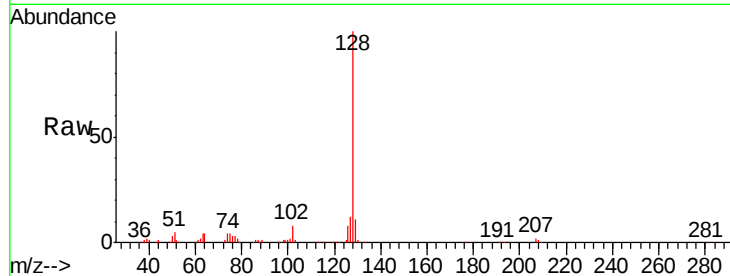
ClientSampleId :

VSTDIC020

Tgt Ion:	128	Resp:	242126
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.2	15.2
129	11.0	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:15 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.29 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN051900.D

Acq: 17 Oct 2018 9:46

Tgt Ion:	180	Resp:	133489
Ion Ratio	Lower	Upper	
180	100		
182	96.3	47.9	143.8
145	31.1	15.2	45.6

