

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050535.D
 Acq On : 10 Aug 2018 23:13
 Operator : MD\SY
 Sample : VN0810WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/13/2018 11:05:56 AM

Quant Time: Aug 11 05:35:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	589086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	891545	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	799232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	402946	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	394881	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
35) Dibromofluoromethane	7.59	113	360620	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
50) Toluene-d8	10.09	98	1315347	48.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.80%	
62) 4-Bromofluorobenzene	12.40	95	427231	46.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	122726	18.77	ug/l	99
3) Chloromethane	2.06	50	155864	19.27	ug/l	98
4) Vinyl Chloride	2.18	62	163603	19.33	ug/l	97
5) Bromomethane	2.56	94	92167	22.55	ug/l	99
6) Chloroethane	2.70	64	101492	19.46	ug/l	97
7) Trichlorofluoromethane	3.01	101	220820	20.20	ug/l	99
8) Diethyl Ether	3.41	74	77174	19.25	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	135729	20.09	ug/l	99
10) Methyl Iodide	3.95	142	71036	23.87	ug/l	100
11) Tert butyl alcohol	4.80	59	48425	76.59	ug/l	99
12) 1,1-Dichloroethene	3.74	96	121753	19.12	ug/l	97
13) Acrolein	3.61	56	34801	54.79	ug/l	100
14) Allyl chloride	4.33	41	188432	18.42	ug/l	97
15) Acrylonitrile	4.99	53	240286	90.73	ug/l	99
16) Acetone	3.82	43	210228	89.33	ug/l	98
17) Carbon Disulfide	4.05	76	358759	17.32	ug/l	100
18) Methyl Acetate	4.33	43	128444	20.95	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	342152	18.93	ug/l	99
20) Methylene Chloride	4.55	84	147619	19.62	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	133714	19.40	ug/l	98
22) Diisopropyl ether	5.96	45	432737	20.71	ug/l	97
23) Vinyl Acetate	5.90	43	1406757	94.37	ug/l	99
24) 1,1-Dichloroethane	5.85	63	259414	20.24	ug/l	99
25) 2-Butanone	6.84	43	337232	86.47	ug/l	98
26) 2,2-Dichloropropane	6.83	77	160316	15.17	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	152990	20.03	ug/l	98
28) Bromochloromethane	7.20	49	128400	21.76	ug/l	99
29) Tetrahydrofuran	7.22	42	177135	84.85	ug/l	99
30) Chloroform	7.37	83	265146	20.69	ug/l	98
31) Cyclohexane	7.66	56	213740	18.55	ug/l	93
32) 1,1,1-Trichloroethane	7.57	97	222586	20.22	ug/l	100
36) 1,1-Dichloropropene	7.80	75	192629	19.66	ug/l	99
37) Ethyl Acetate	6.93	43	124421	17.64	ug/l	98
38) Carbon Tetrachloride	7.78	117	195460	19.13	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050535.D
 Acq On : 10 Aug 2018 23:13
 Operator : MD\SY
 Sample : VN0810WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/13/2018 11:05:56 AM

Quant Time: Aug 11 05:35:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	186163	17.41	ug/l	98
40) Benzene	8.05	78	592816	19.68	ug/l	100
41) Methacrylonitrile	7.18	41	61487	16.39	ug/l	89
42) 1,2-Dichloroethane	8.13	62	185702	19.42	ug/l	100
43) Isopropyl Acetate	8.17	43	225286	18.50	ug/l #	88
44) Trichloroethene	8.84	130	155362	19.20	ug/l	100
45) 1,2-Dichloropropane	9.12	63	158134	19.97	ug/l	100
46) Dibromomethane	9.21	93	92406	18.90	ug/l	97
47) Bromodichloromethane	9.40	83	197053	19.46	ug/l	100
48) Methyl methacrylate	9.20	41	104513	17.12	ug/l	98
49) 1,4-Dioxane	9.20	88	28265	300.43	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	770102	87.81	ug/l	99
52) Toluene	10.16	92	358571	19.82	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	181382	17.84	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	214313	18.89	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	136951	19.39	ug/l	99
56) Ethyl methacrylate	10.43	69	160618	17.23	ug/l	97
57) 1,3-Dichloropropane	10.71	76	225128	19.42	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	381514	86.87	ug/l	100
59) 2-Hexanone	10.75	43	495957	81.03	ug/l	99
60) Dibromochloromethane	10.90	129	147054	18.90	ug/l	99
61) 1,2-Dibromoethane	11.01	107	129331	18.58	ug/l	97
64) Tetrachloroethene	10.63	164	149038	19.96	ug/l	99
65) Chlorobenzene	11.44	112	387308	19.33	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	147880	20.28	ug/l	100
67) Ethyl Benzene	11.51	91	633815	19.57	ug/l	99
68) m/p-Xylenes	11.62	106	496531	40.27	ug/l	100
69) o-Xylene	11.95	106	234177	19.72	ug/l	99
70) Styrene	11.97	104	386581	20.01	ug/l	100
71) Bromoform	12.13	173	99513	18.67	ug/l #	100
73) Isopropylbenzene	12.25	105	624256	20.64	ug/l	100
74) N-amyl acetate	12.07	43	171777	17.52	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	170885	19.58	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	145027m	19.88	ug/l	
77) Bromobenzene	12.53	156	166130	20.50	ug/l	99
78) n-propylbenzene	12.59	91	702761	20.53	ug/l	99
79) 2-Chlorotoluene	12.68	91	436557	20.65	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	513824	20.93	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	34047	16.40	ug/l	97
82) 4-Chlorotoluene	12.77	91	441127	20.92	ug/l	99
83) tert-Butylbenzene	12.99	119	432148	20.17	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	525122	21.11	ug/l	100
85) sec-Butylbenzene	13.17	105	572176	20.04	ug/l	99
86) p-Isopropyltoluene	13.29	119	488977	19.99	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	287829	19.94	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	278105	19.30	ug/l	97
89) n-Butylbenzene	13.62	91	373028	17.91	ug/l	99
90) Hexachloroethane	13.88	117	83309	19.15	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	283651	19.61	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	24487	16.53	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
Data File : VN050535.D
Acq On : 10 Aug 2018 23:13
Operator : MD\SY
Sample : VN0810WBSD02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

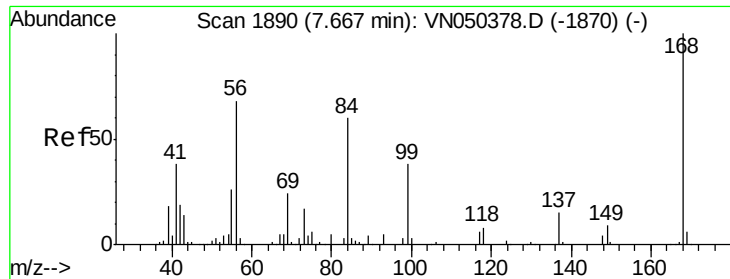
Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM

Quant Time: Aug 11 05:35:41 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	128518	17.44	ug/l	97
94) Hexachlorobutadiene	15.01	225	85466	20.25	ug/l	97
95) Naphthalene	15.14	128	264931	16.22	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	129164	17.34	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion:168 Resp: 589086

Ion Ratio Lower Upper

168 100

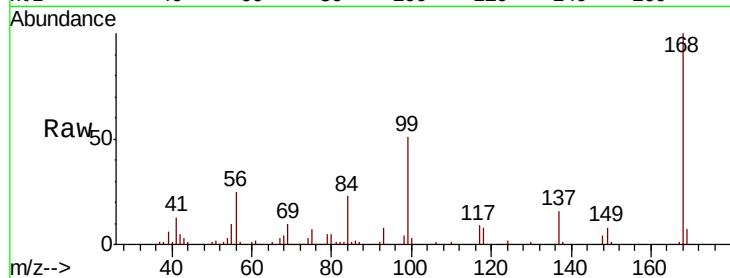
99 50.4 40.0 60.0

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

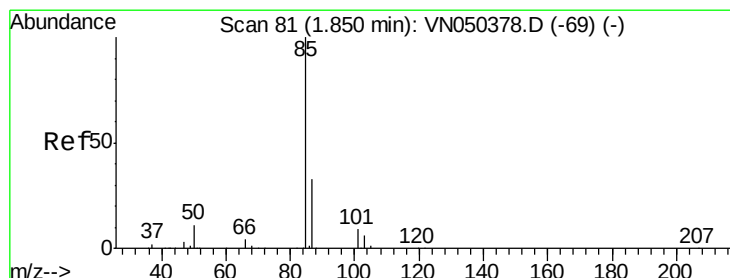
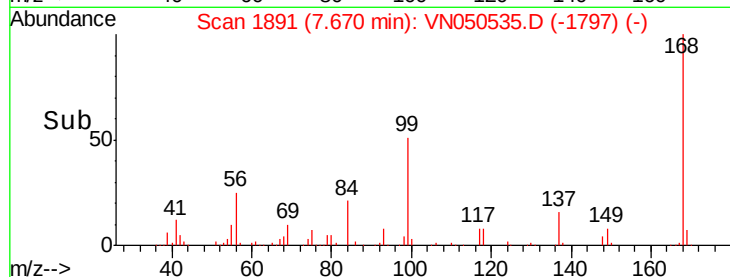
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.77 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN050535.D

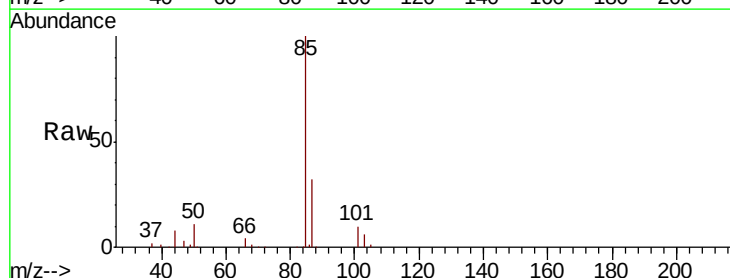
Acq: 10 Aug 2018 23:13

Tgt Ion: 85 Resp: 122726

Ion Ratio Lower Upper

85 100

87 31.6 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

100000

80000

60000

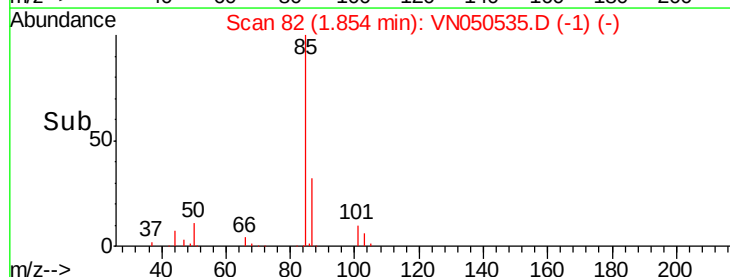
40000

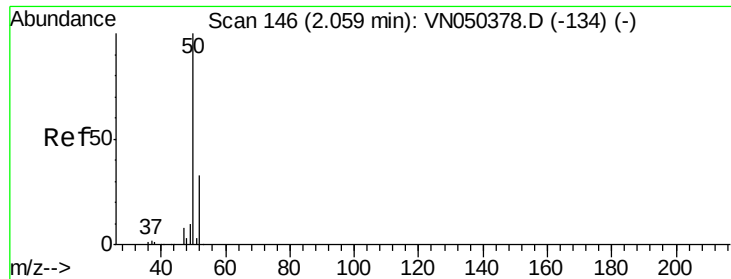
20000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 19.27 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion: 50 Resp: 155864

Ion Ratio Lower Upper

50 100

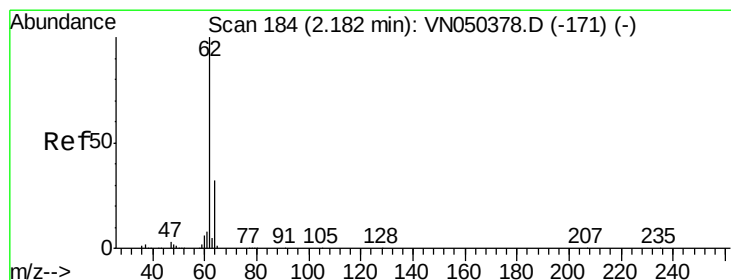
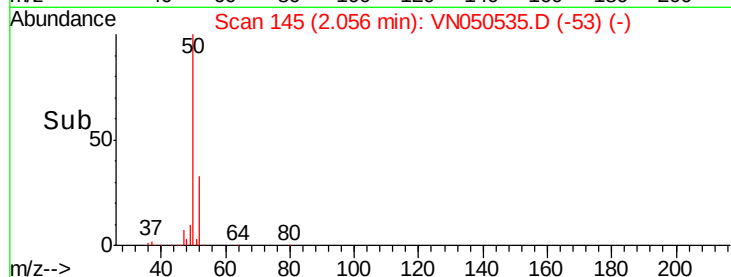
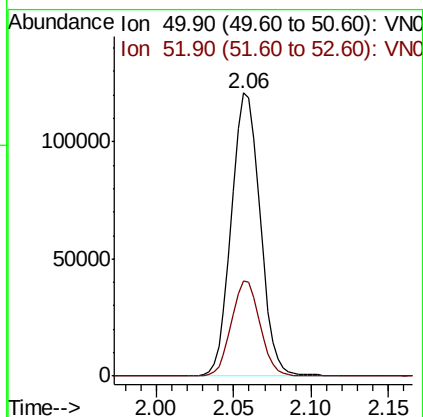
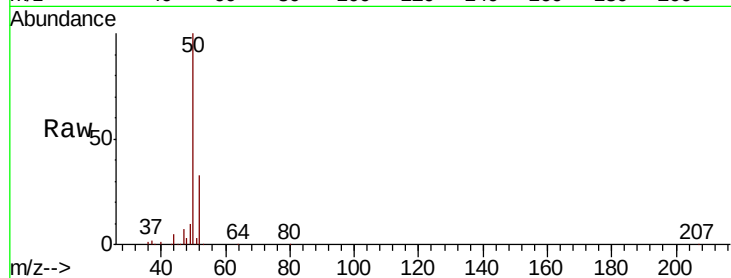
52 33.5 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM



#4

Vinyl Chloride

Concen: 19.33 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050535.D

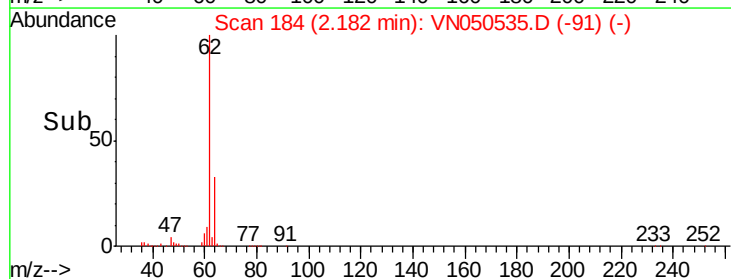
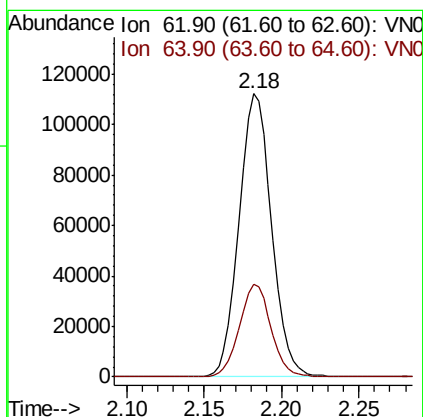
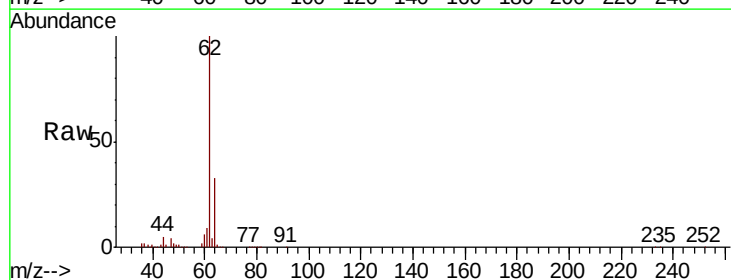
Acq: 10 Aug 2018 23:13

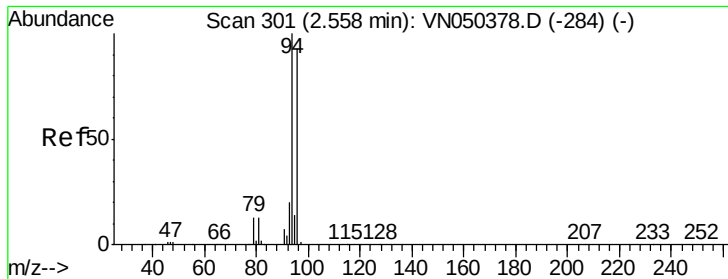
Tgt Ion: 62 Resp: 163603

Ion Ratio Lower Upper

62 100

64 32.5 24.7 37.1





#5

Bromomethane

Concen: 22.55 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion: 94 Resp: 92167

Ion Ratio Lower Upper

94 100

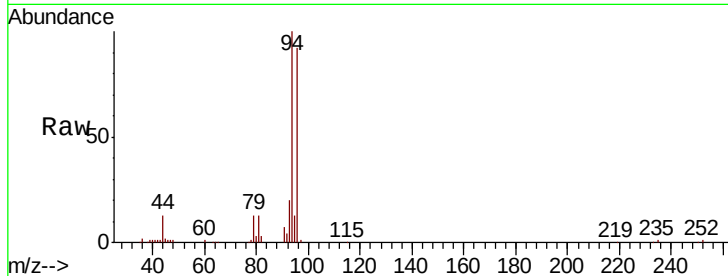
96 92.3 74.6 112.0

Manual Integrations

APPROVED

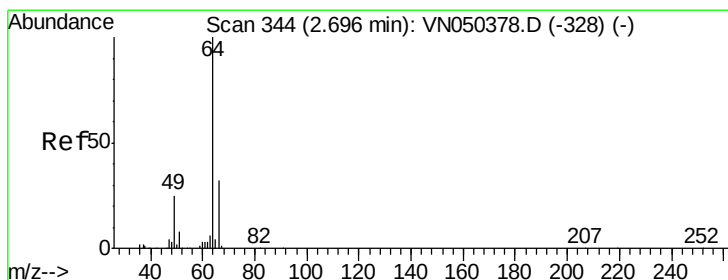
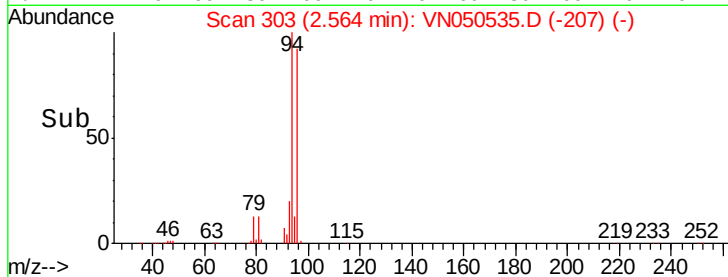
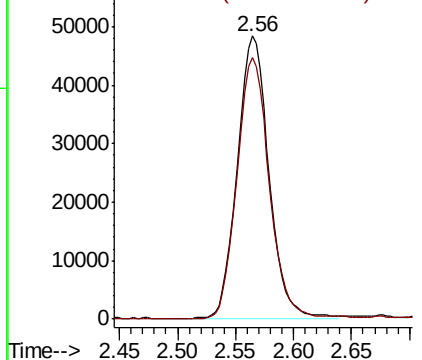
MMDadoda

8/13/2018 11:05:56 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.46 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050535.D

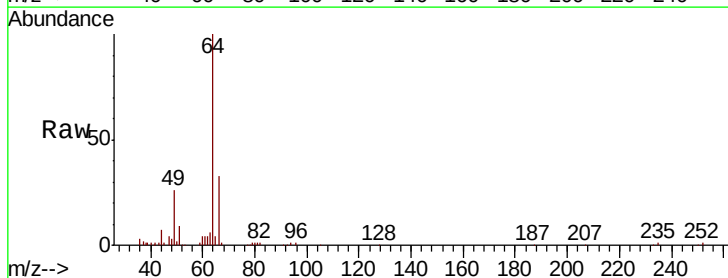
Acq: 10 Aug 2018 23:13

Tgt Ion: 64 Resp: 101492

Ion Ratio Lower Upper

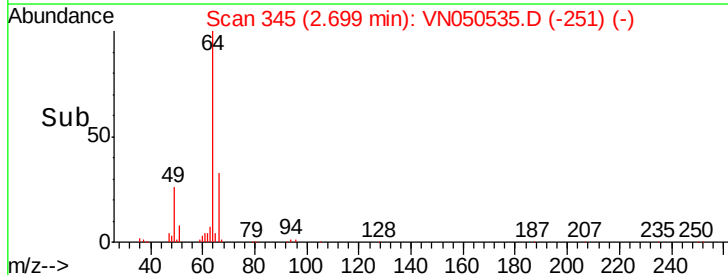
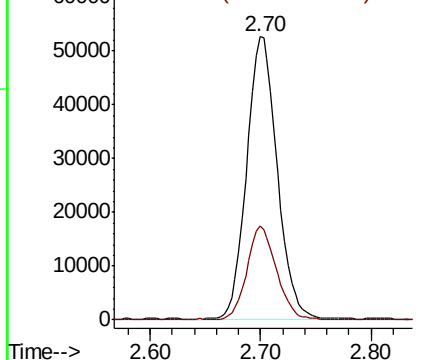
64 100

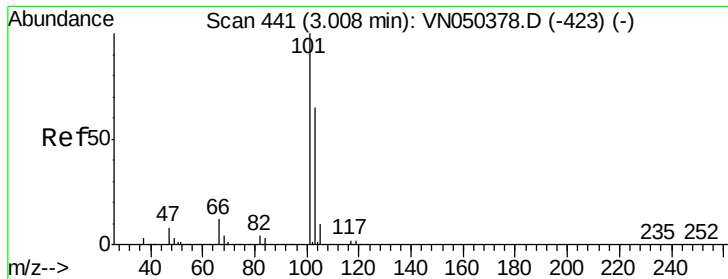
66 33.2 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

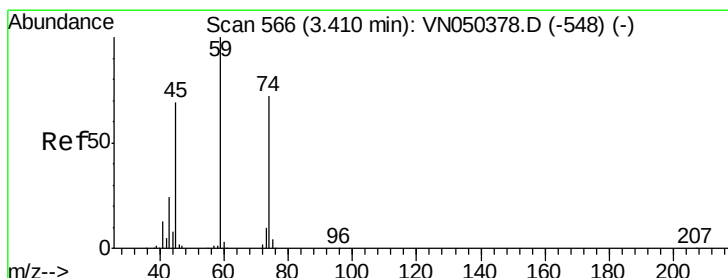
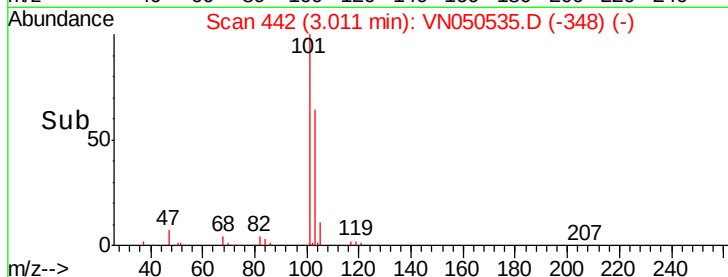
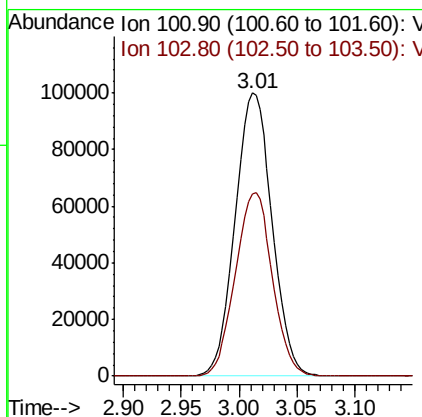
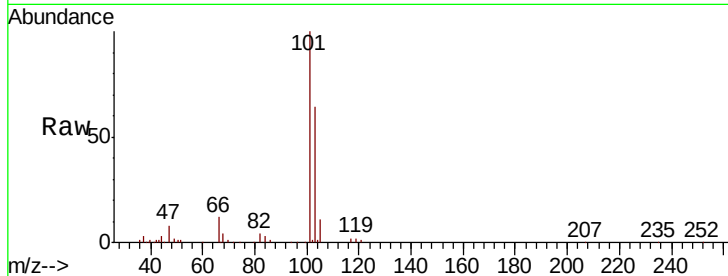
Trichlorofluoromethane
 Concen: 20.20 ug/l
 RT: 3.01 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		220820		
103	64.2	51.7	77.5		

Manual Integrations
 APPROVED

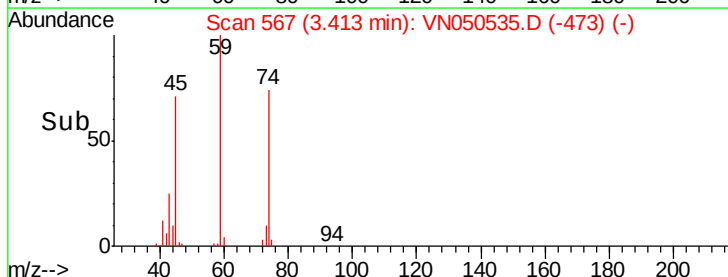
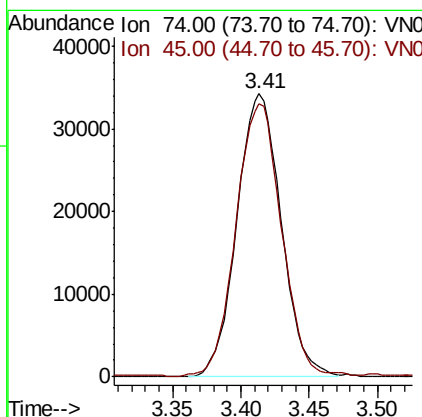
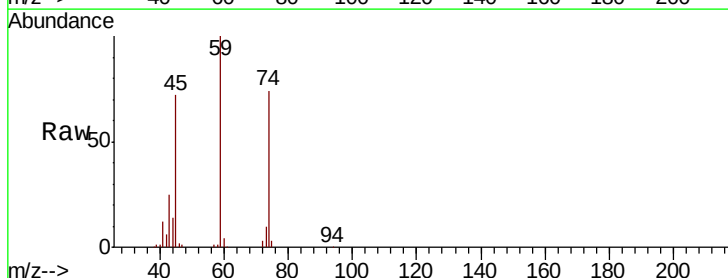
MMDadoda
 8/13/2018 11:05:56 AM

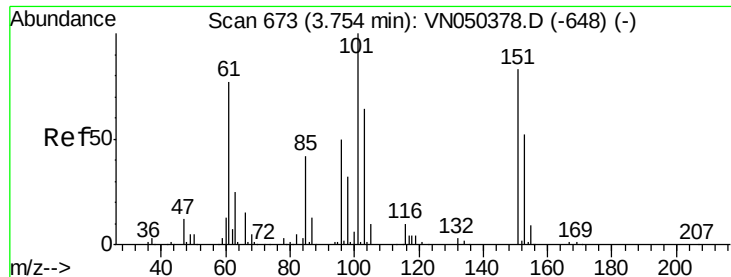


#8

Diethyl Ether
 Concen: 19.25 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		77174		
45	99.5	47.6	142.8		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.09 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

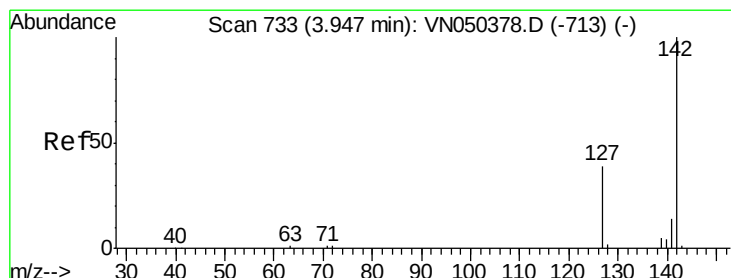
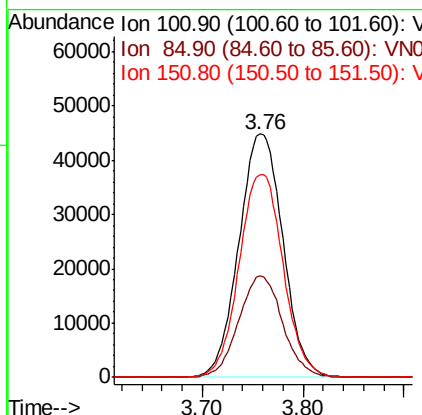
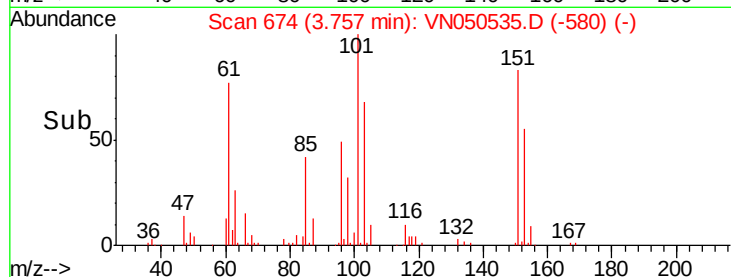
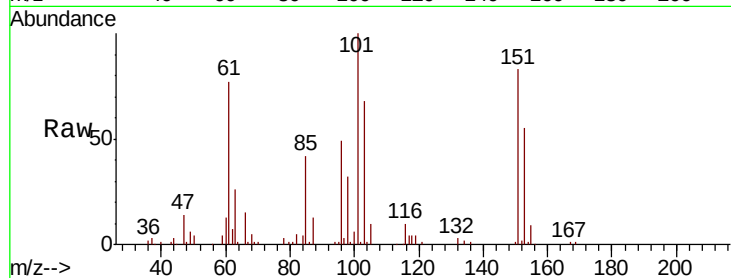
ClientSampleId :

VN0810WBSD02

Tot Ion:	101	Resp:	135729
Ion Ratio	Lower	Upper	
101	100		
85	41.5	34.2	51.2
151	83.6	66.3	99.5

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



#10

Methyl Iodide

Concen: 23.87 ug/l

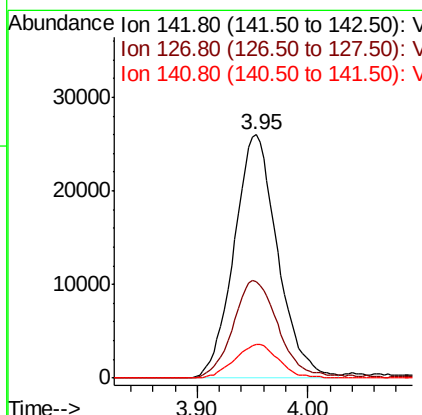
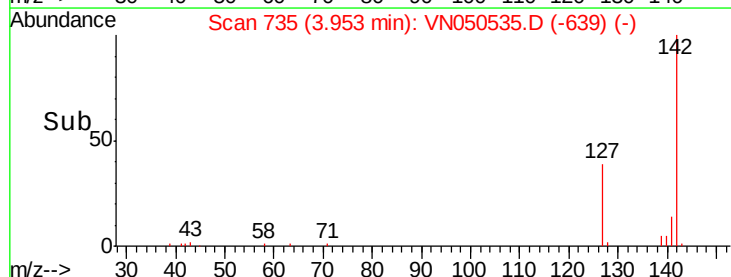
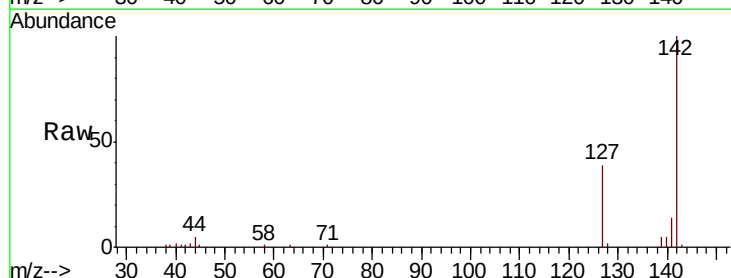
RT: 3.95 min Scan# 735

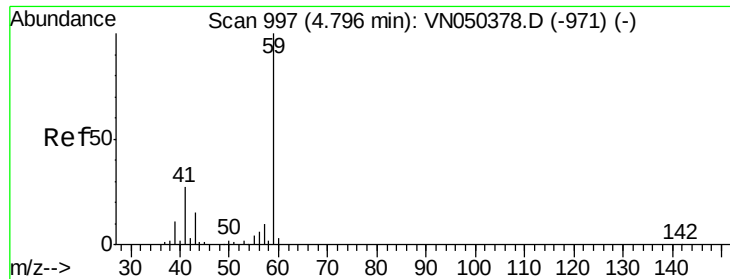
Delta R.T. 0.01 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Tgt Ion:	142	Resp:	71036
Ion Ratio	Lower	Upper	
142	100		
127	41.8	33.4	50.2
141	13.9	11.6	17.4





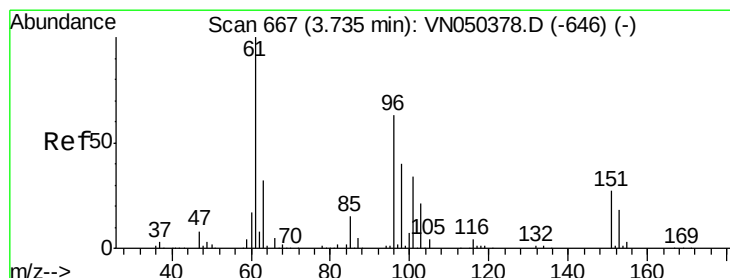
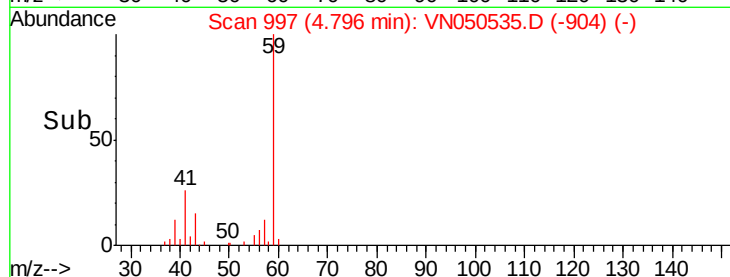
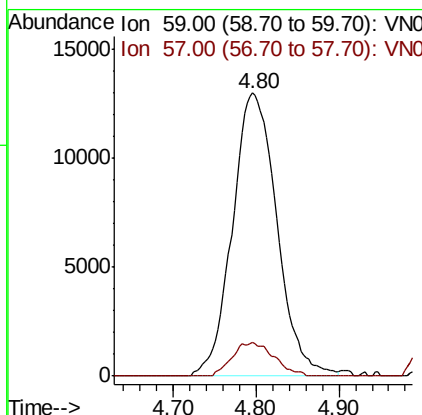
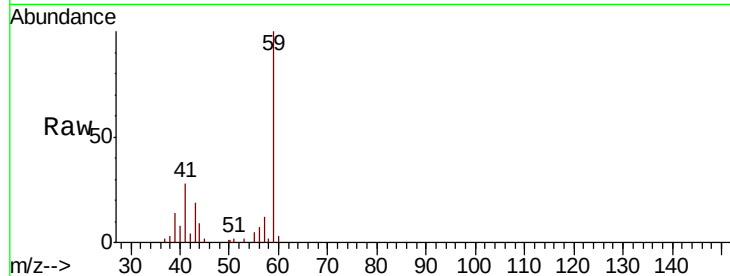
#11
Tert butyl alcohol
Concen: 76.59 ug/l
RT: 4.80 min Scan# 997
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	59	Resp	48425
Ion Ratio	100	Lower	Upper
57	11.2	8.5	12.7

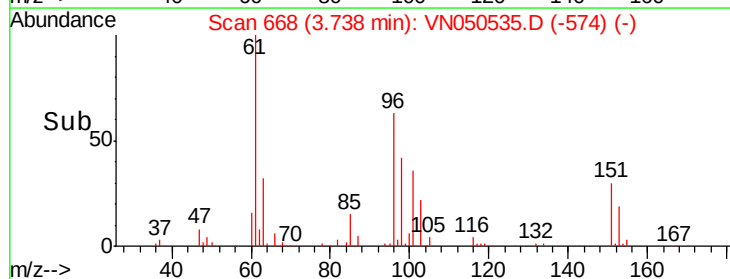
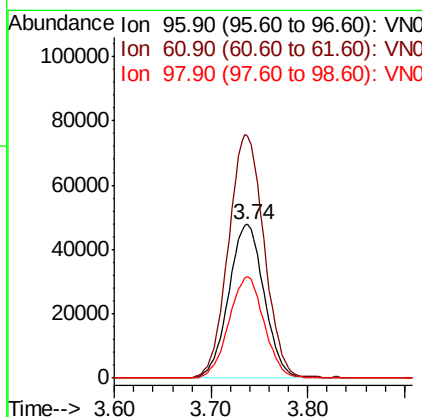
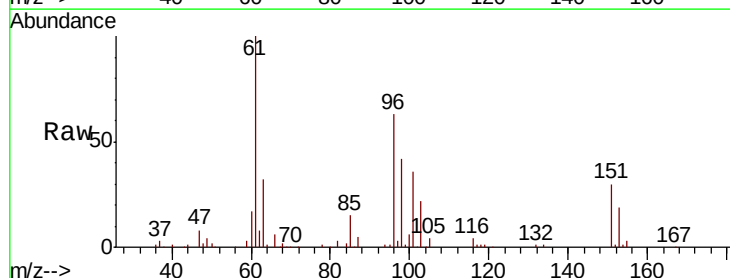
Manual Integrations
APPROVED

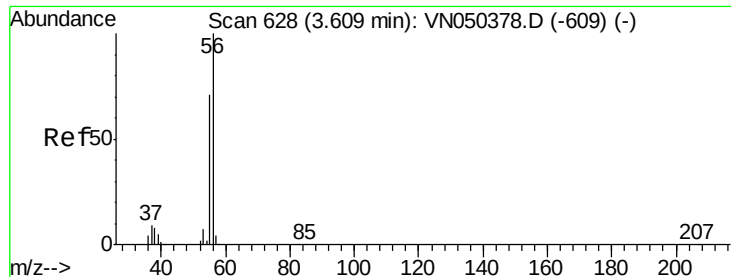
MMDadoda
8/13/2018 11:05:56 AM



#12
1,1-Dichloroethene
Concen: 19.12 ug/l
RT: 3.74 min Scan# 668
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	96	Resp	121753
Ion Ratio	100	Lower	Upper
61	157.8	124.4	186.6
98	66.1	48.3	72.5





#13

Acrolein

Concen: 54.79 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion: 56 Resp: 34801

Ion Ratio Lower Upper

56 100

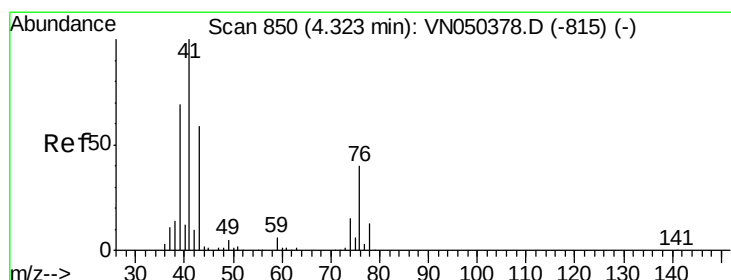
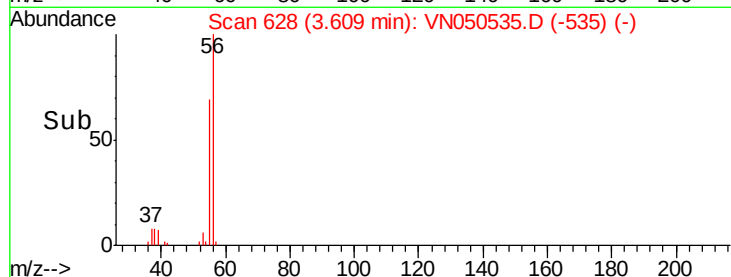
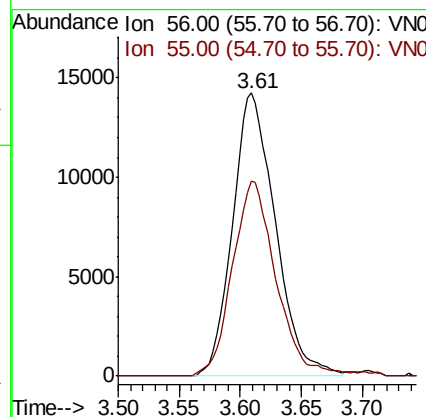
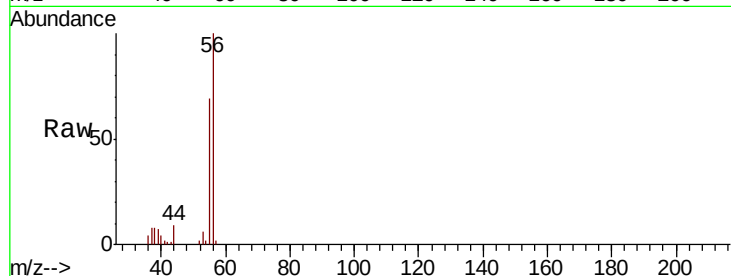
55 69.8 55.8 83.6

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM



#14

Allyl chloride

Concen: 18.42 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

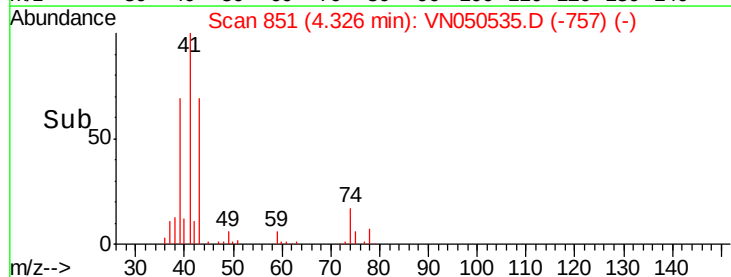
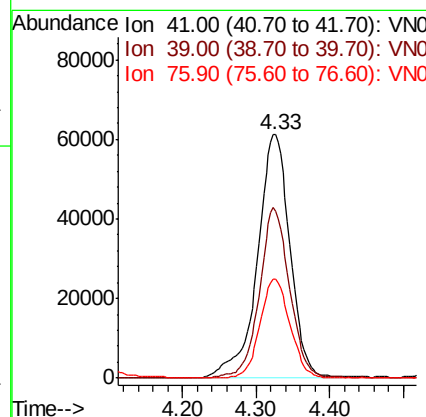
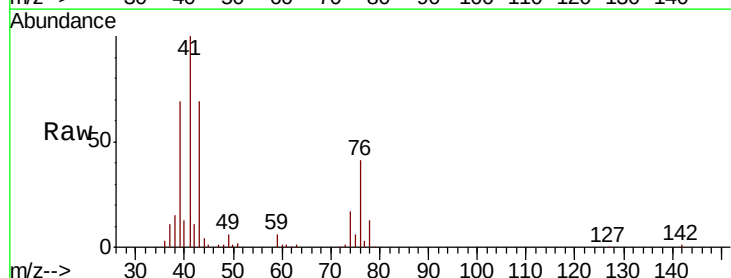
Tgt Ion: 41 Resp: 188432

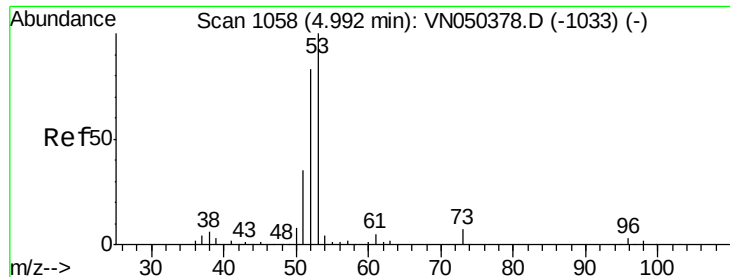
Ion Ratio Lower Upper

41 100

39 64.6 54.2 81.4

76 37.3 29.0 43.6





#15

Acrylonitrile

Concen: 90.73 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

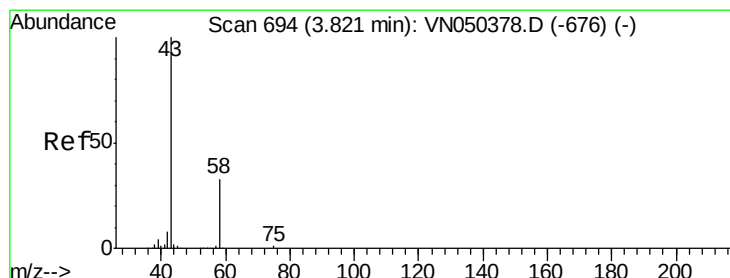
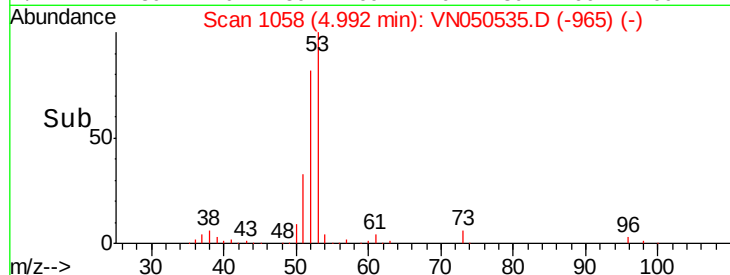
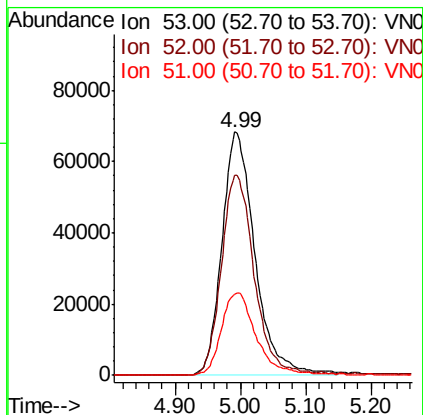
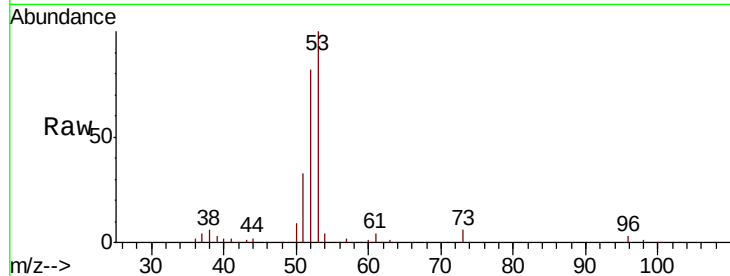
ClientSampleId :

VN0810WBSD02

Tot Ion:	53	Resp:	240286
Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.2	99.2
51	35.6	29.3	43.9

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



#16

Acetone

Concen: 89.33 ug/l

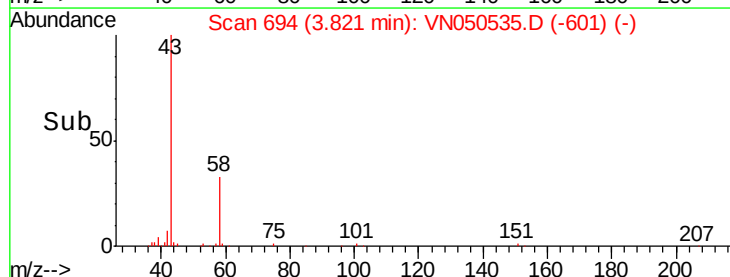
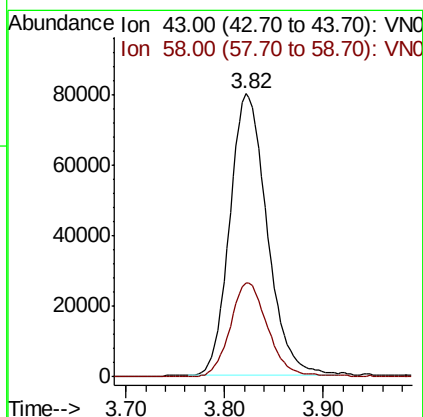
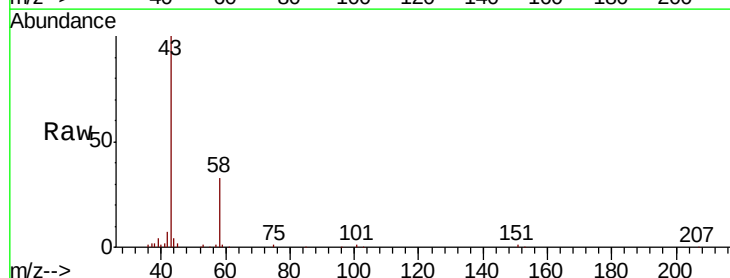
RT: 3.82 min Scan# 694

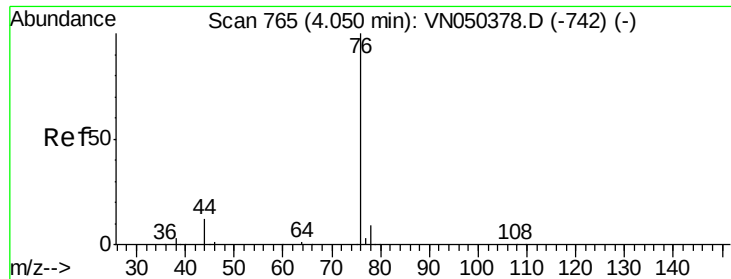
Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Tgt Ion:	43	Resp:	210228
Ion	Ratio	Lower	Upper
43	100		
58	33.4	25.8	38.8





#17

Carbon Disulfide

Concen: 17.32 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion: 76 Resp: 358759

Ion Ratio Lower Upper

76 100

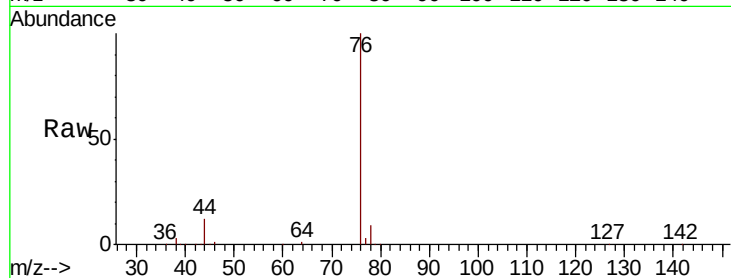
78 9.2 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

150000

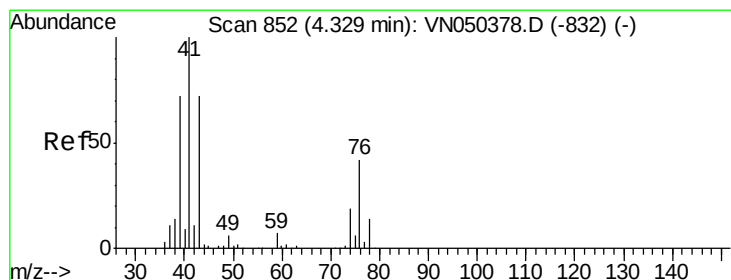
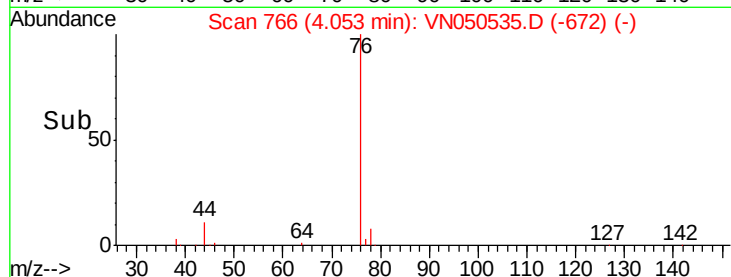
100000

50000

0

4.00 4.10 4.20

Time-->



#18

Methyl Acetate

Concen: 20.95 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050535.D

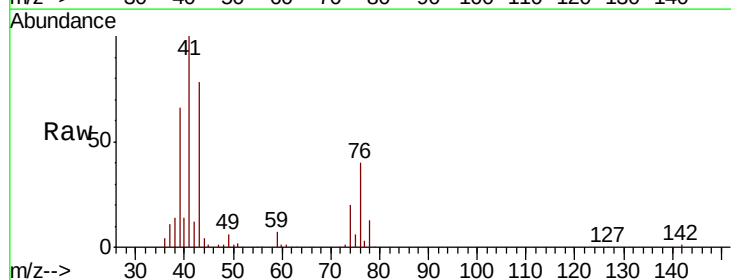
Acq: 10 Aug 2018 23:13

Tgt Ion: 43 Resp: 128444

Ion Ratio Lower Upper

43 100

74 24.5 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

50000

40000

30000

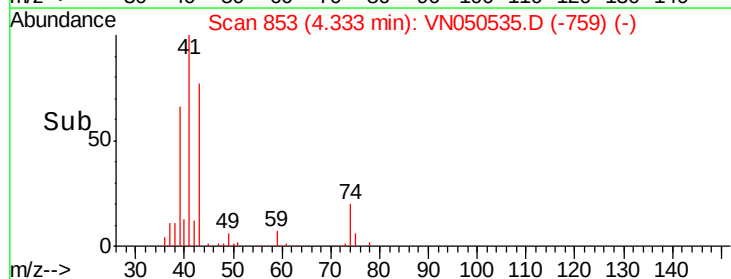
20000

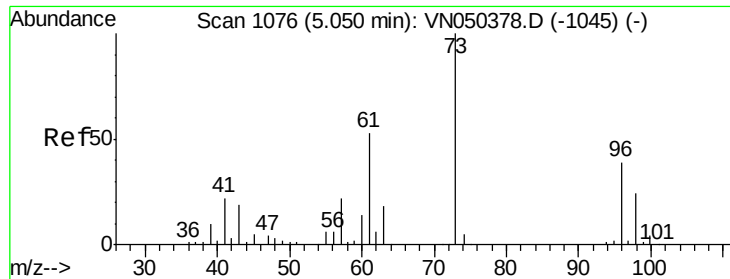
10000

0

4.20 4.30 4.40

Time-->





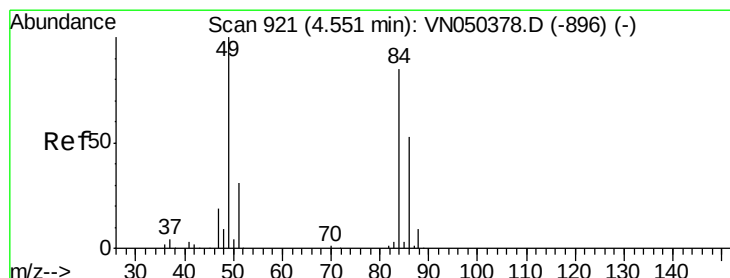
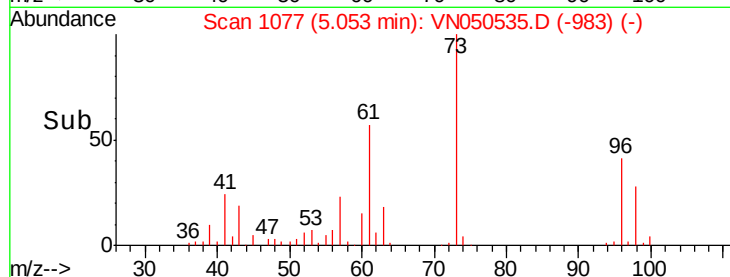
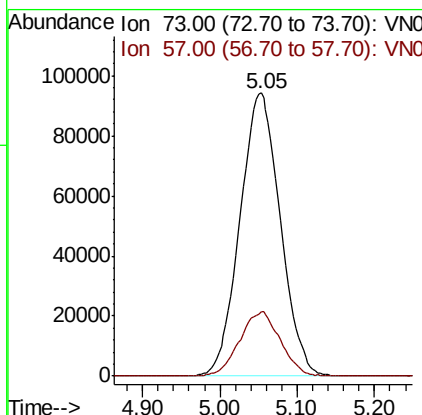
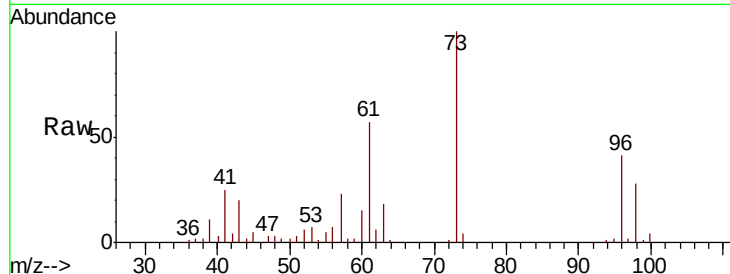
#19
Methyl tert-butyl Ether
Concen: 18.93 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleID :
VN0810WBSD02

Tot Ion: 73 Resp: 342152
Ion Ratio Lower Upper
73 100
57 22.8 18.0 27.0

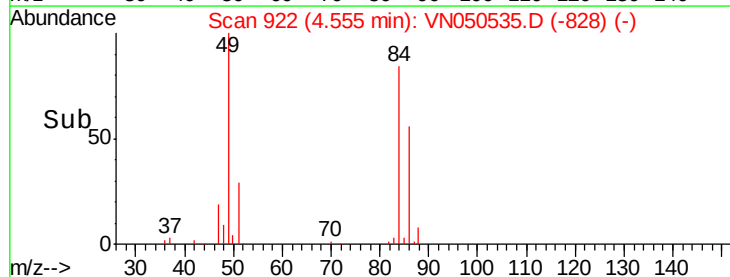
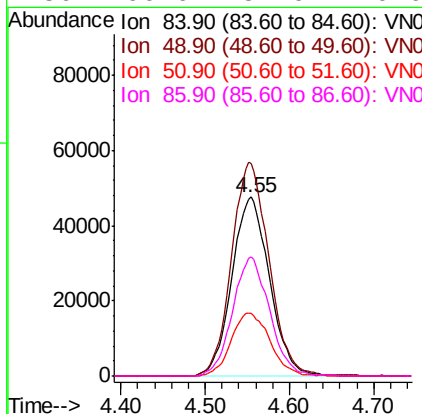
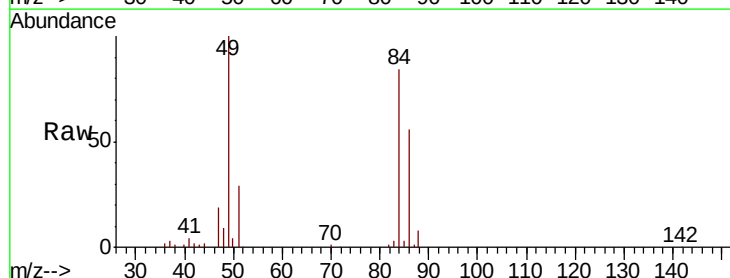
Manual Integrations
APPROVED

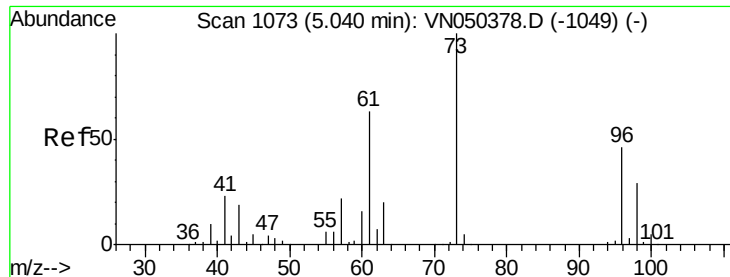
MMDadoda
8/13/2018 11:05:56 AM



#20
Methylene Chloride
Concen: 19.62 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion: 84 Resp: 147619
Ion Ratio Lower Upper
84 100
49 118.7 94.8 142.2
51 35.0 28.3 42.5
86 66.6 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 19.40 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion: 96 Resp: 133714

Ion Ratio Lower Upper

96 100

61 142.0 110.7 166.1

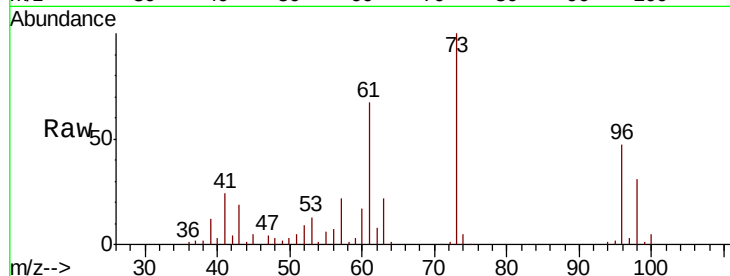
98 65.6 51.6 77.4

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM

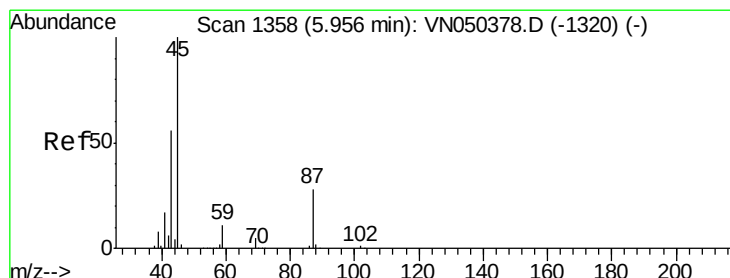
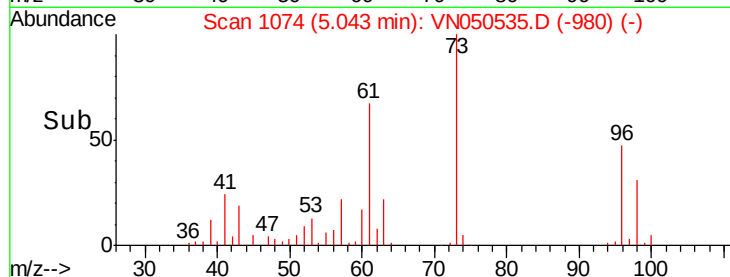
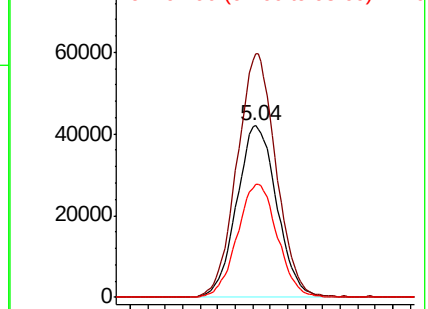


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 20.71 ug/l

RT: 5.96 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Tgt Ion: 45 Resp: 432737

Ion Ratio Lower Upper

45 100

43 60.5 45.7 68.5

87 28.2 22.7 34.1

59 12.1 9.5 14.3

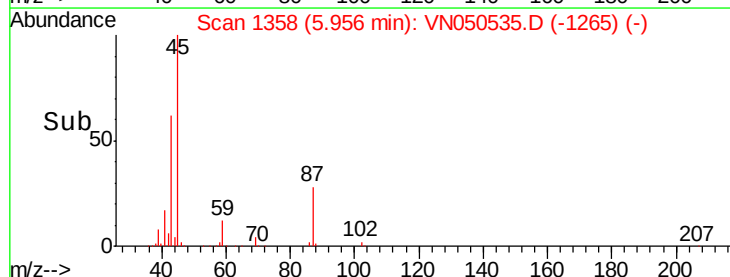
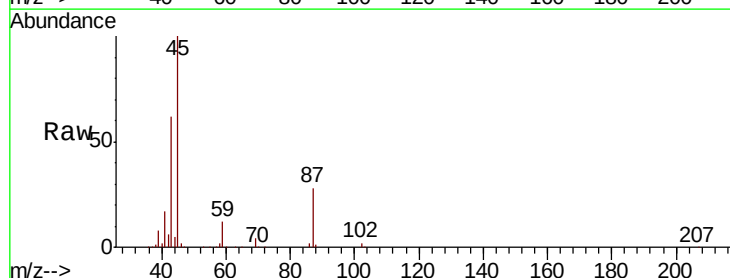
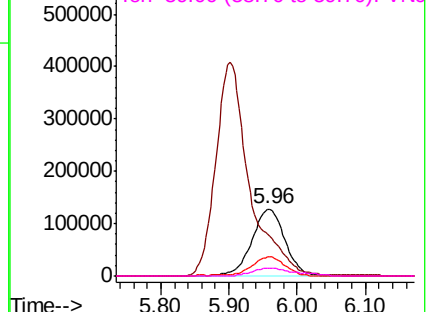
Abundance

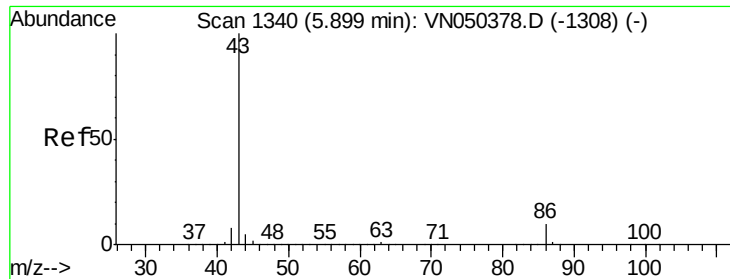
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 94.37 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion: 43 Resp: 1406757

Ion Ratio Lower Upper

43 100

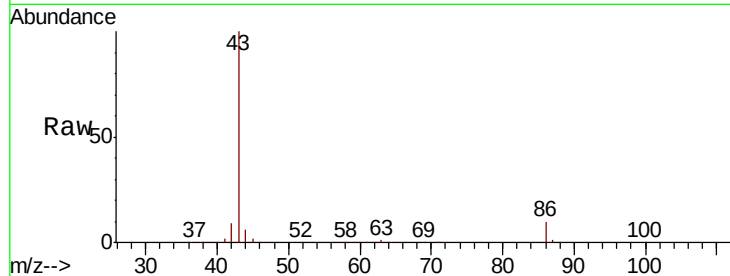
86 10.4 8.6 13.0

Manual Integrations

APPROVED

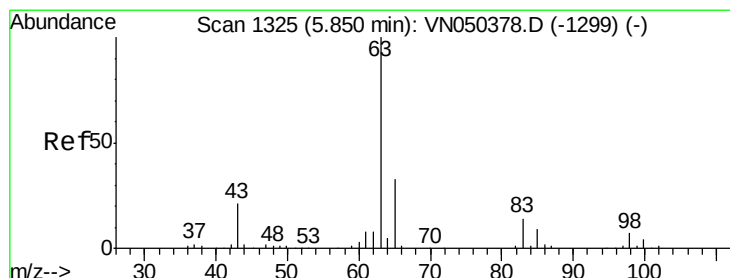
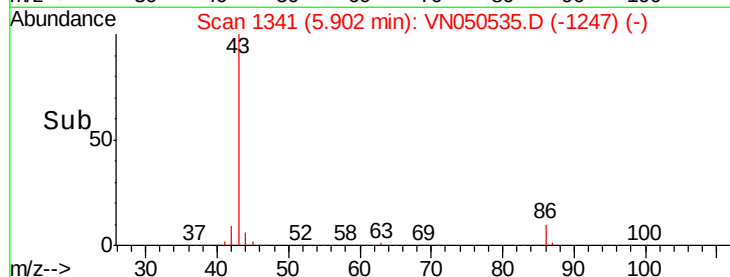
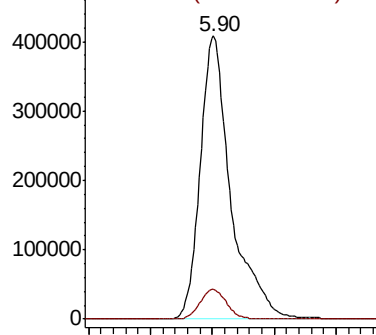
MMDadoda

8/13/2018 11:05:56 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.24 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

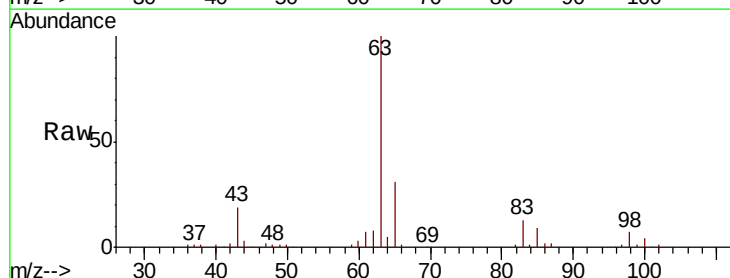
Tgt Ion: 63 Resp: 259414

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

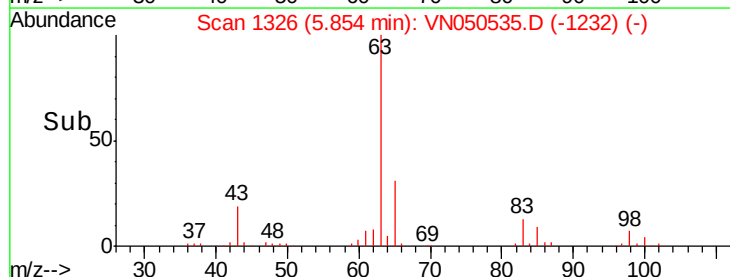
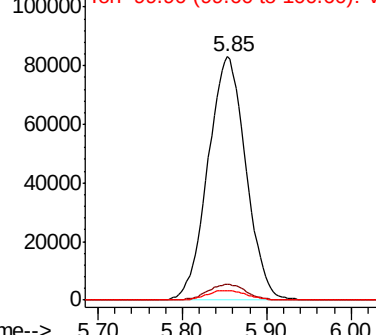
100 4.0 2.1 6.3

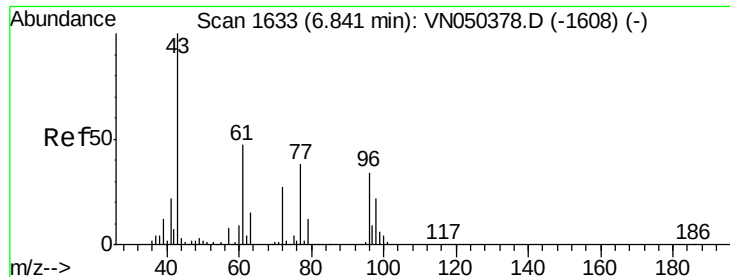


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





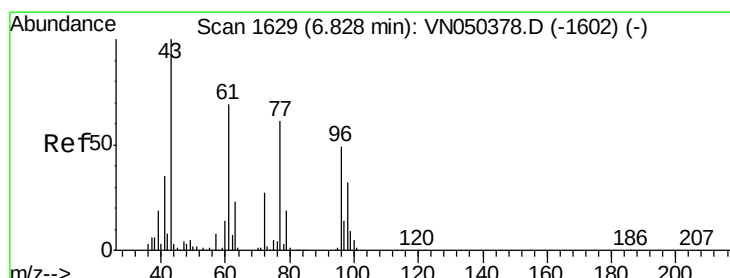
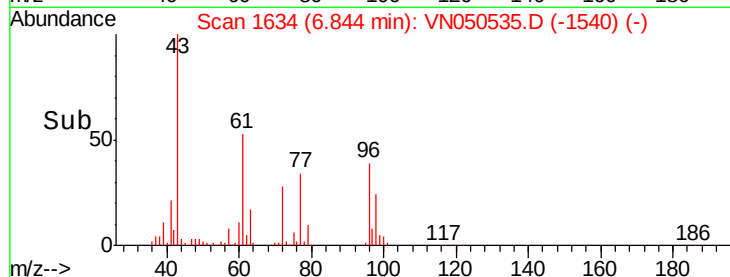
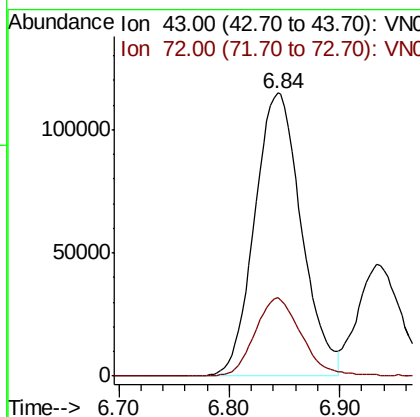
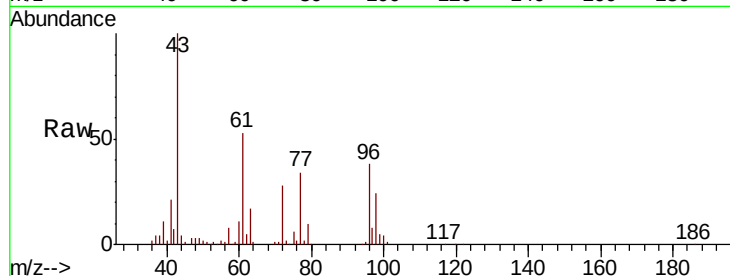
#25
2-Butanone
Concen: 86.47 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	43	Resp	337232
Ion Ratio	100	Lower	Upper
72	27.8	21.5	32.3

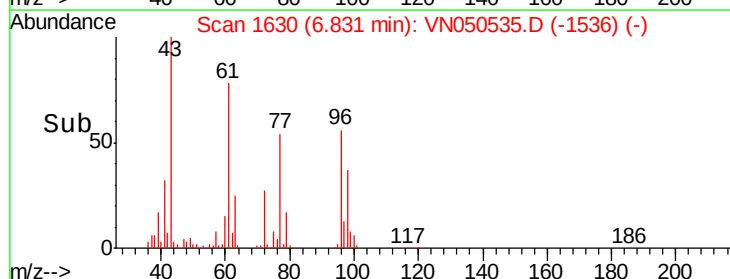
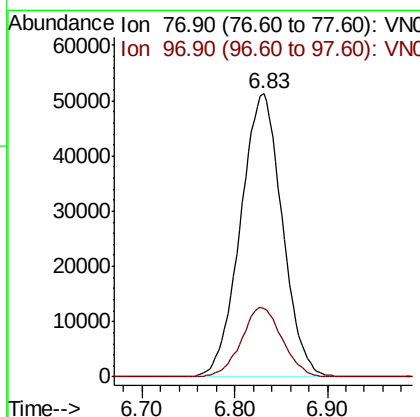
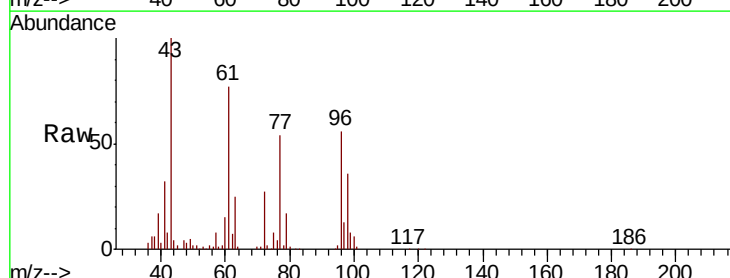
Manual Integrations
APPROVED

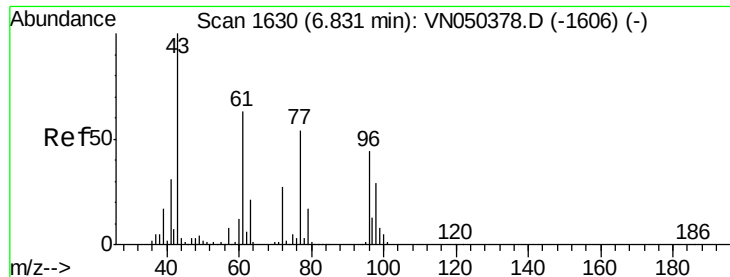
MMDadoda
8/13/2018 11:05:56 AM



#26
2,2-Dichloropropane
Concen: 15.17 ug/l
RT: 6.83 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	77	Resp	160316
Ion Ratio	100	Lower	Upper
97	24.1	11.8	35.3





#27

cis-1,2-Dichloroethene

Concen: 20.03 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN050535.D

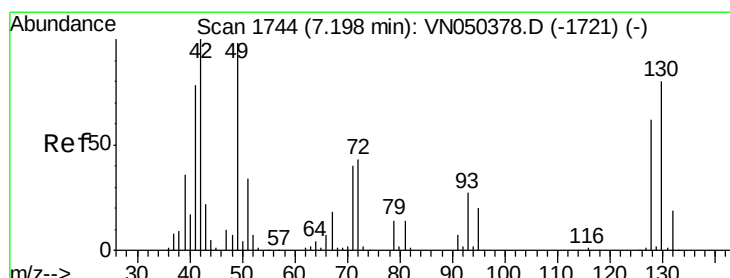
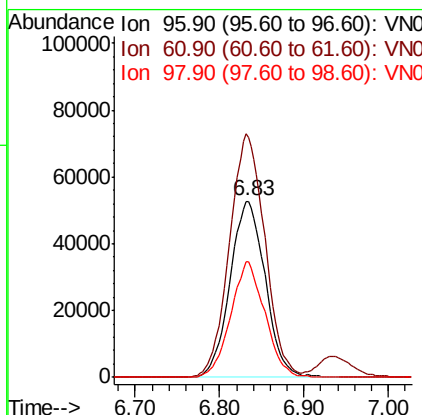
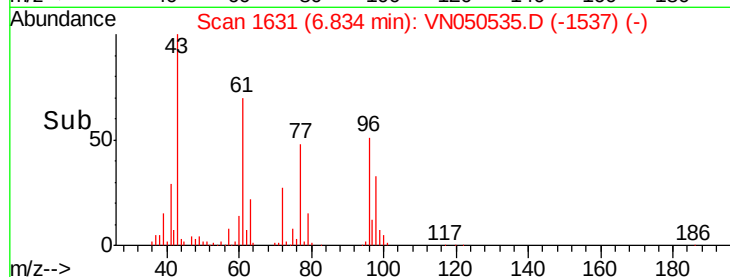
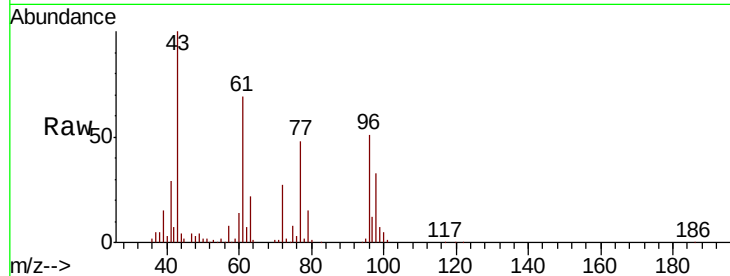
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	152990		
61	139.0	0.0	285.0	
98	63.9	0.0	129.2	

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



#28

Bromochloromethane

Concen: 21.76 ug/l

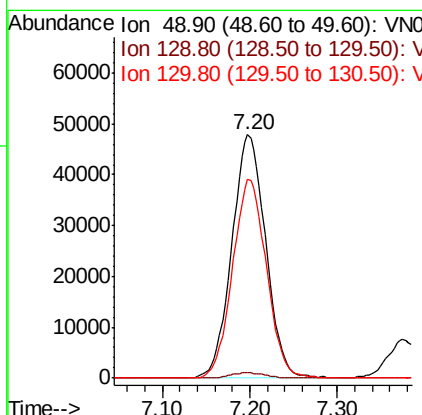
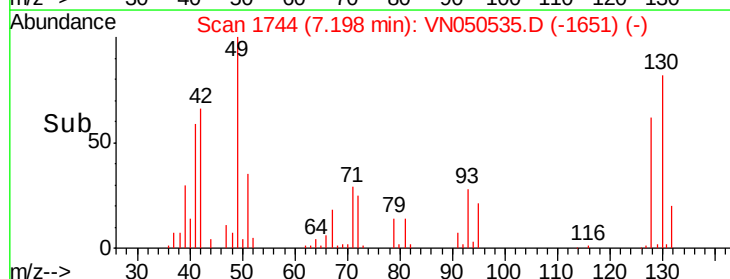
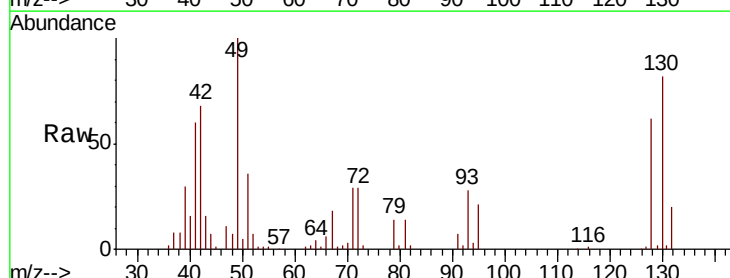
RT: 7.20 min Scan# 1744

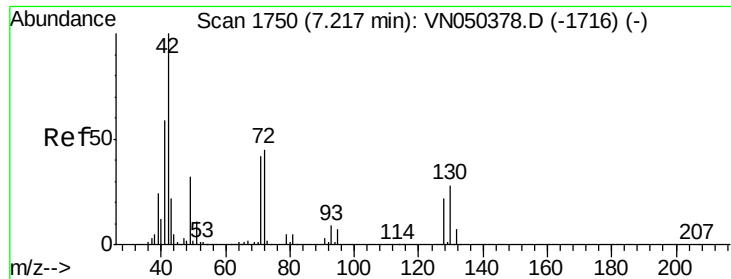
Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	128400		
129	2.2	0.0	4.0	
130	81.8	66.3	99.5	





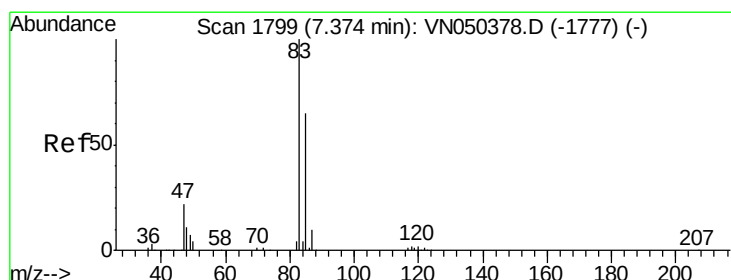
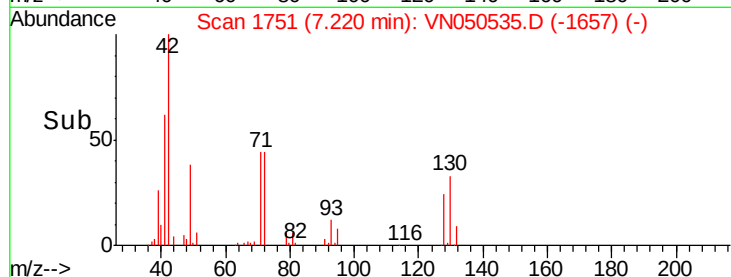
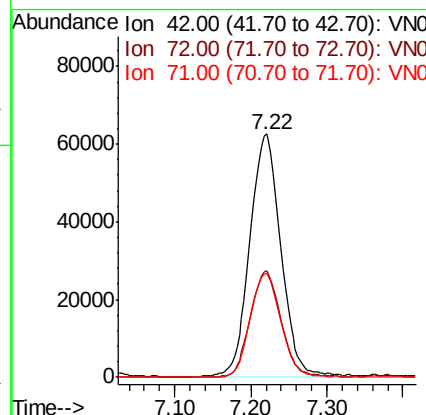
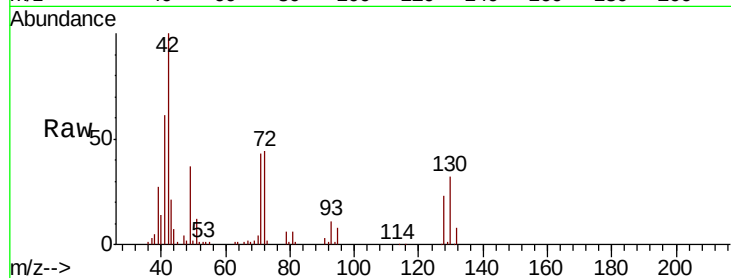
#29
Tetrahydrofuran
Concen: 84.85 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.9	53.9
71	42.3	33.7	50.5

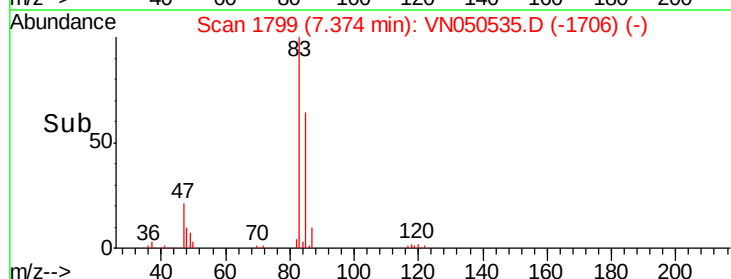
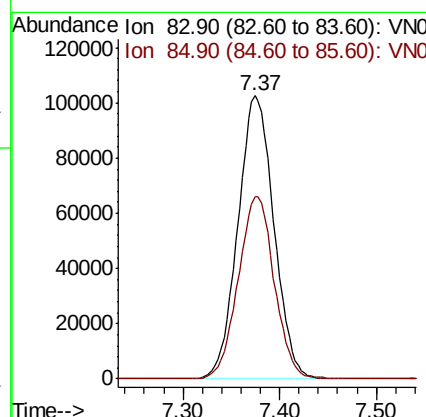
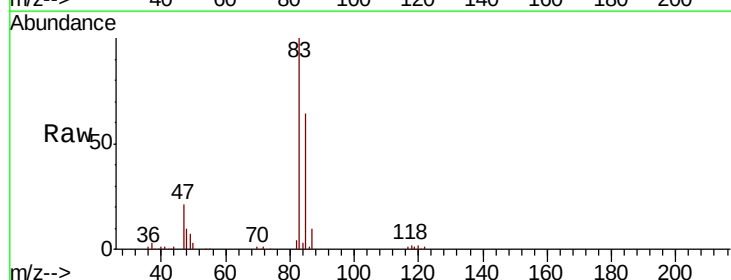
Manual Integrations
APPROVED

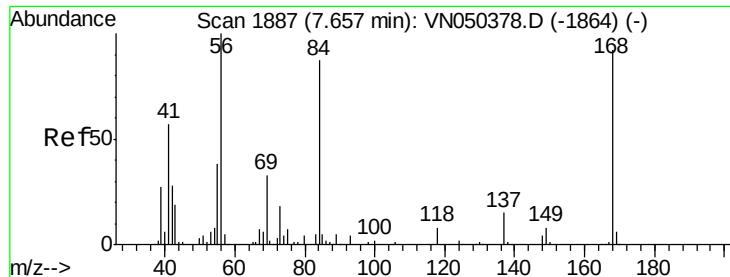
MMDadoda
8/13/2018 11:05:56 AM



#30
Chloroform
Concen: 20.69 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.5	78.7





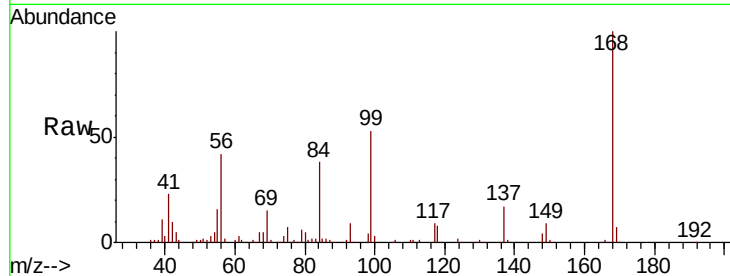
#31
Cyclohexane
Concen: 18.55 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.5	26.2	39.4
84	90.2	67.4	101.0

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM

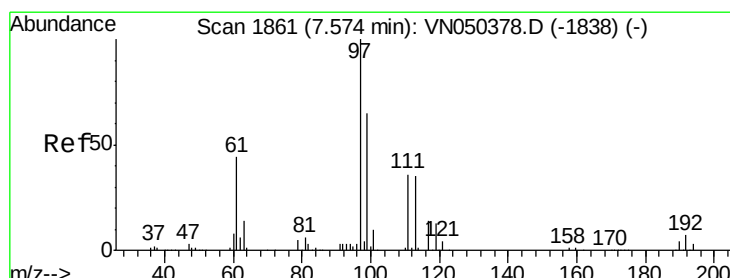
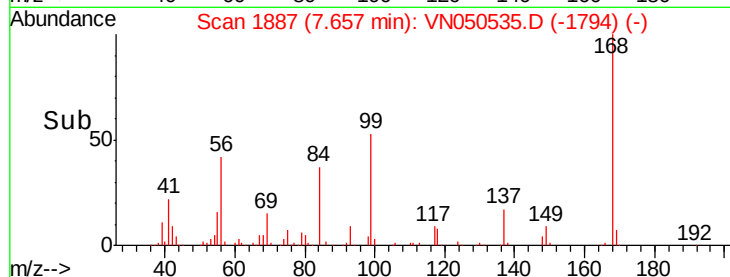
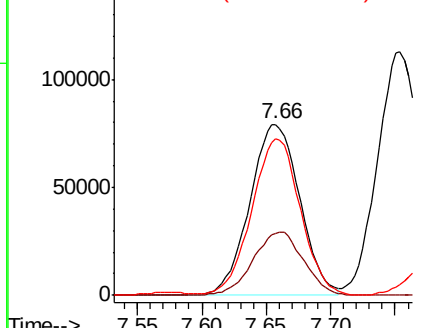


Abundance

Ion 56.00 (55.70 to 56.70): VN0

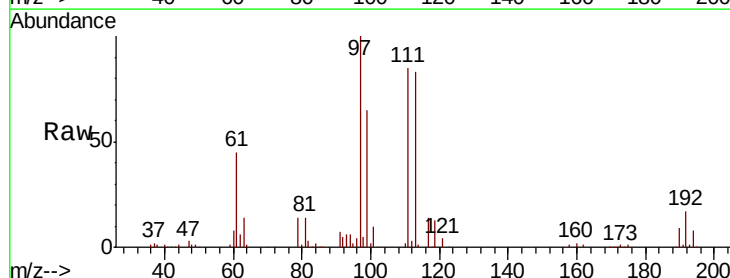
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32
1,1,1-Trichloroethane
Concen: 20.22 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.4	77.0
61	44.3	35.4	53.0

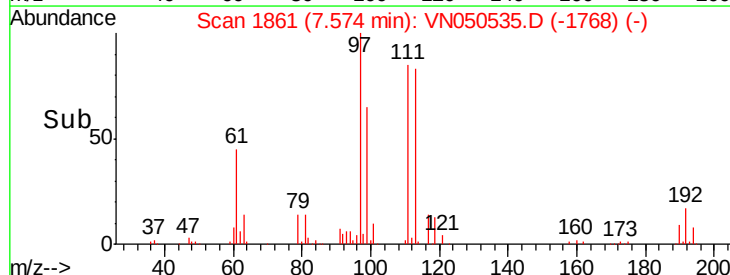
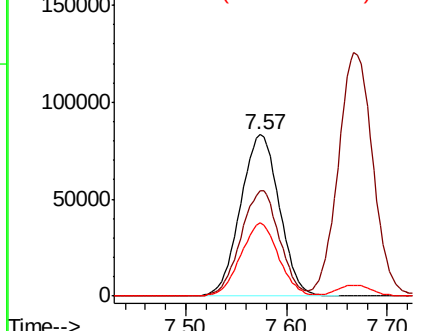


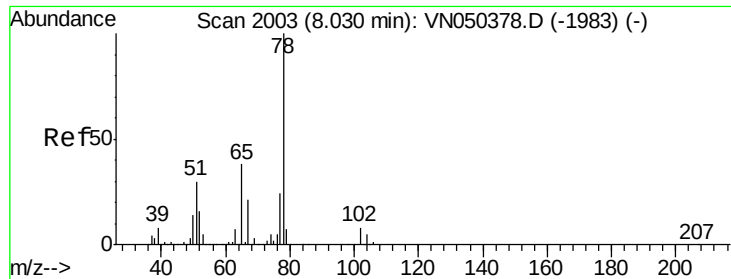
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





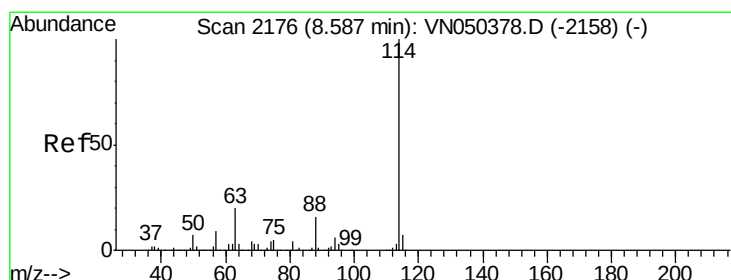
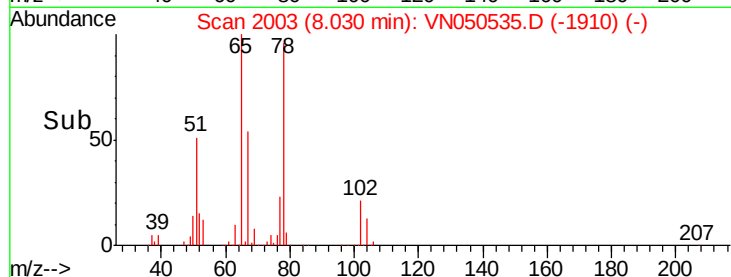
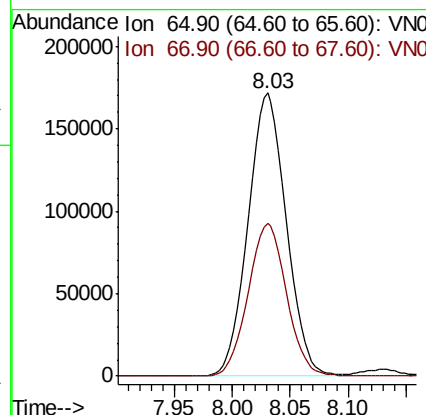
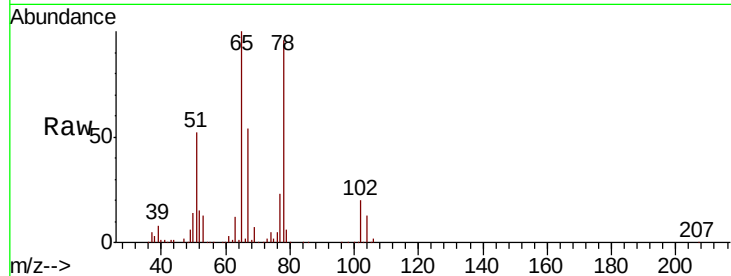
#33
 1,2-Dichloroethane-d4
 Concen: 50.17 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.2	0.0	108.4	

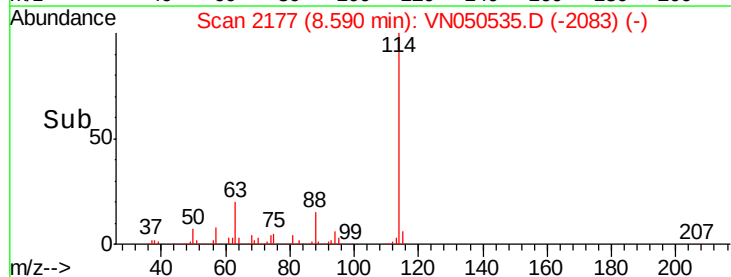
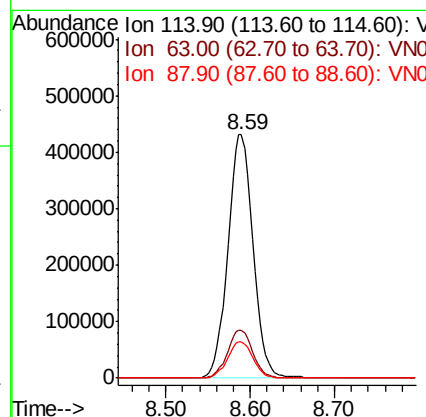
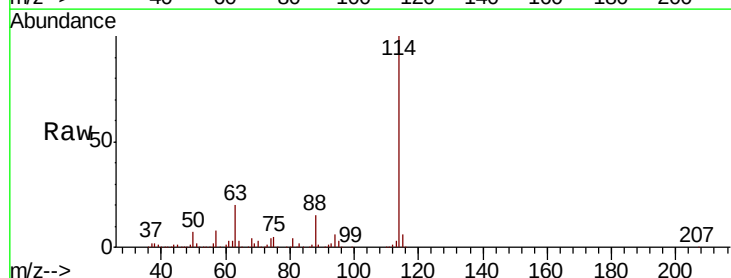
Manual Integrations
 APPROVED

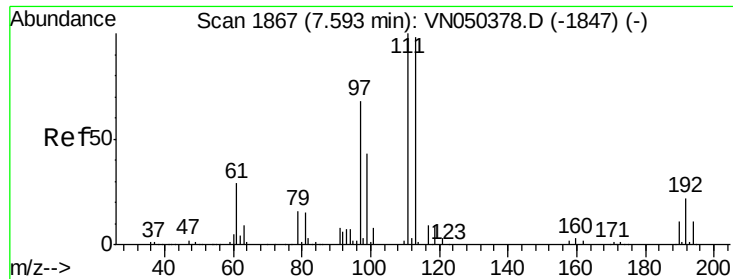
MMDadoda
 8/13/2018 11:05:56 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.8	0.0	40.0	
88	14.8	0.0	31.2	





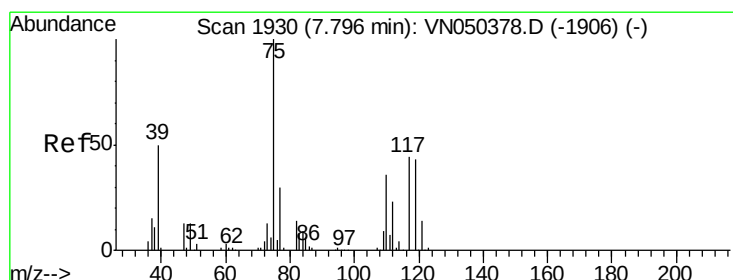
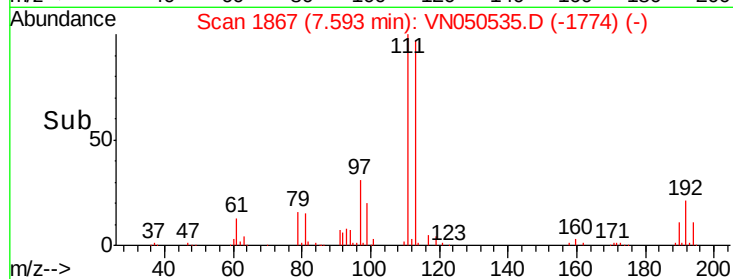
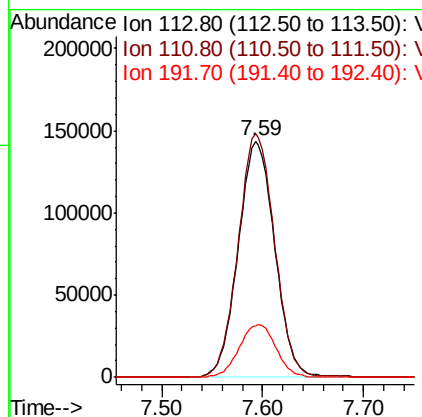
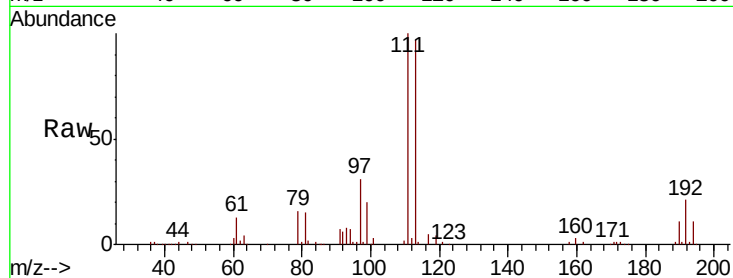
#35
 Dibromofluoromethane
 Concen: 50.41 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	360620		
111	102.7	80.7	121.1	
192	22.5	17.8	26.6	

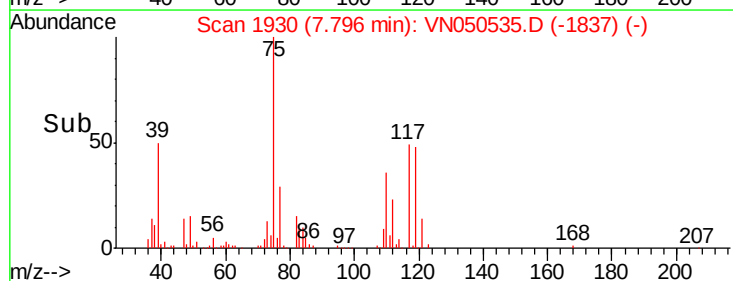
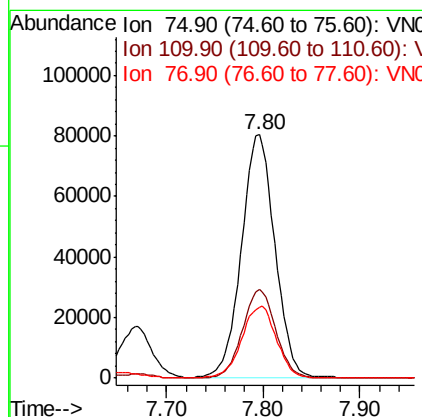
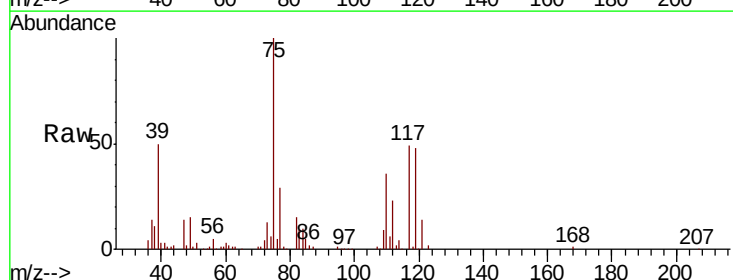
Manual Integrations
 APPROVED

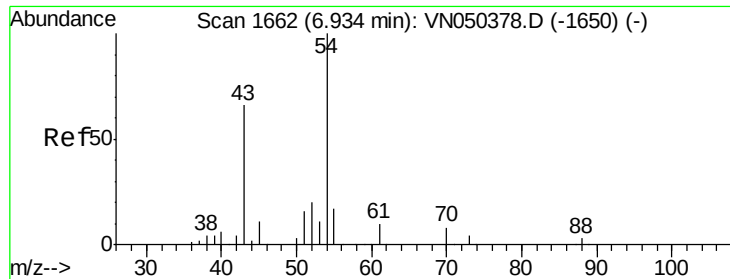
MMDadoda
 8/13/2018 11:05:56 AM



#36
 1,1-Dichloropropene
 Concen: 19.66 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	192629		
110	36.4	18.4	55.2	
77	30.8	25.3	37.9	





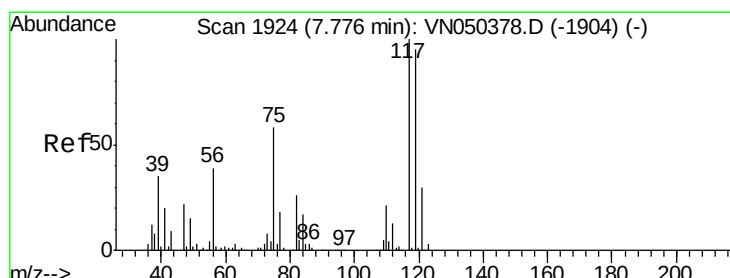
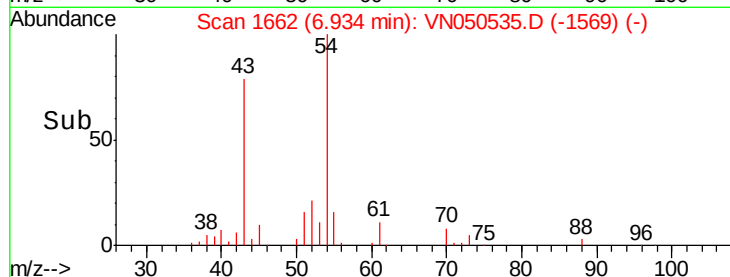
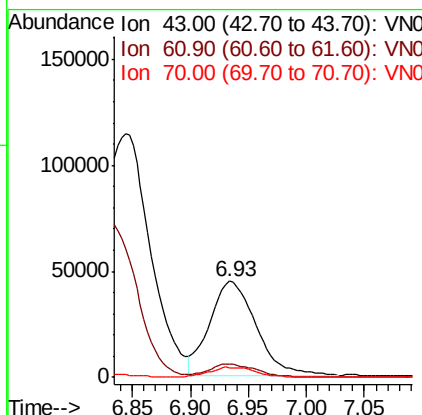
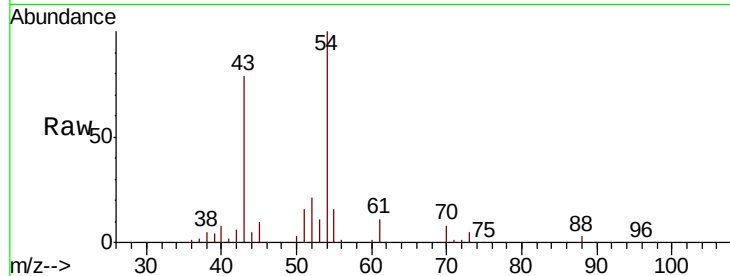
#37
Ethyl Acetate
Concen: 17.64 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.8	17.8
70	10.8	8.4	12.6

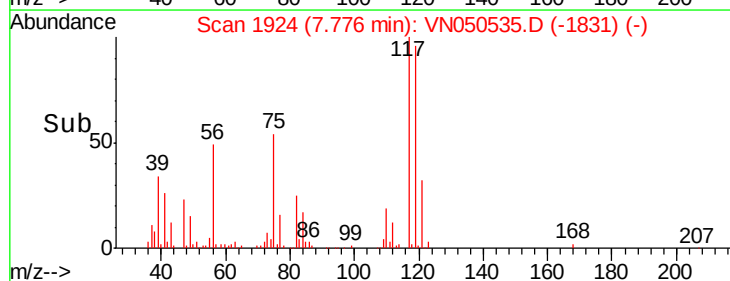
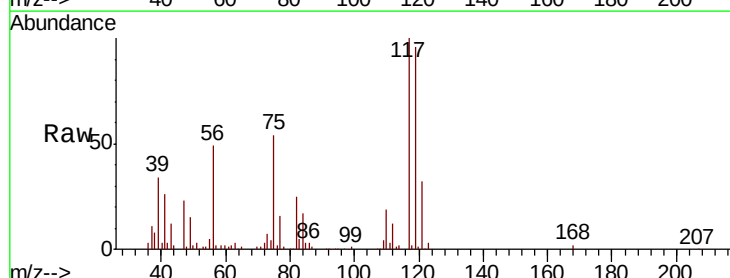
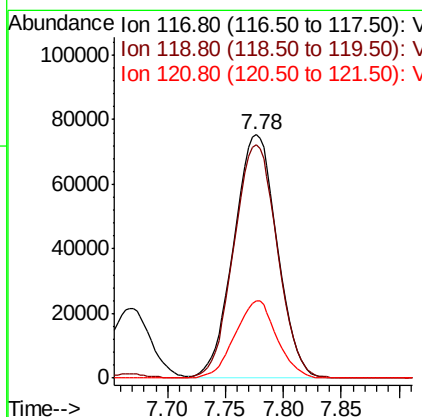
Manual Integrations
APPROVED

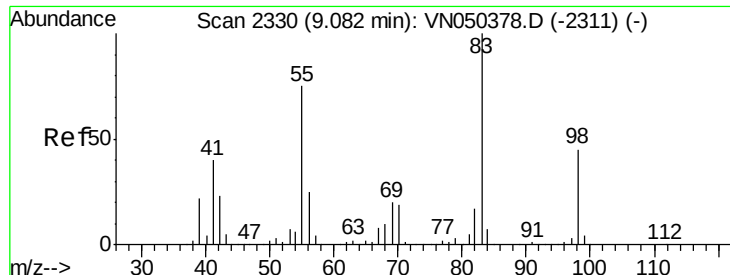
MMDadoda
8/13/2018 11:05:56 AM



#38
Carbon Tetrachloride
Concen: 19.13 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.4	116.0
121	31.6	23.9	35.9





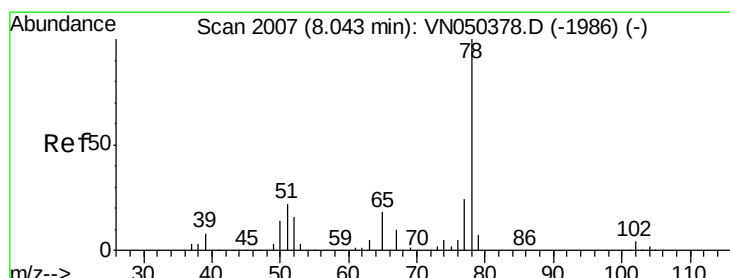
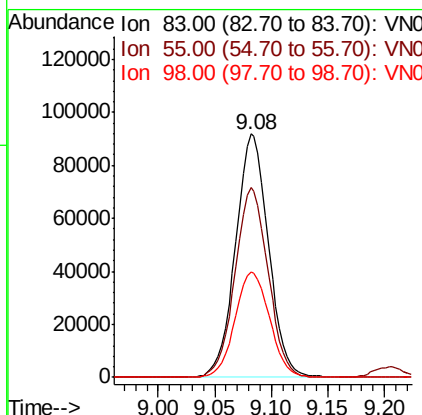
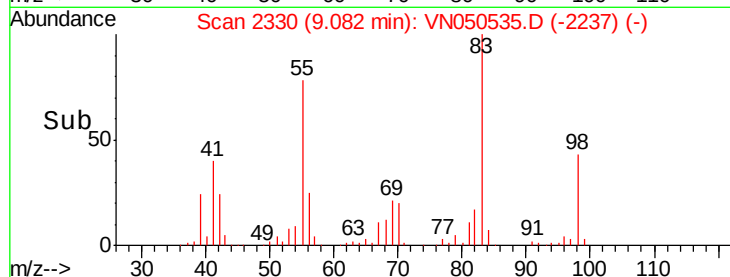
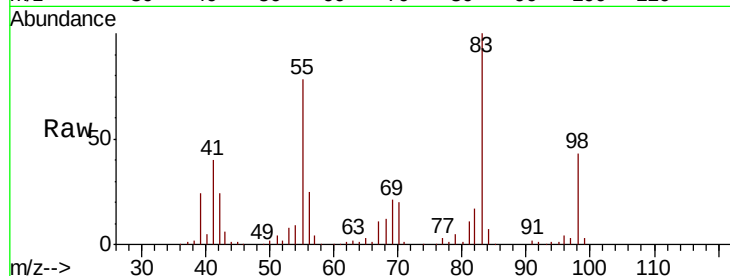
#39
Methylvlcyclohexane
Concen: 17.41 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.0	61.8	92.8
98	43.5	36.5	54.7

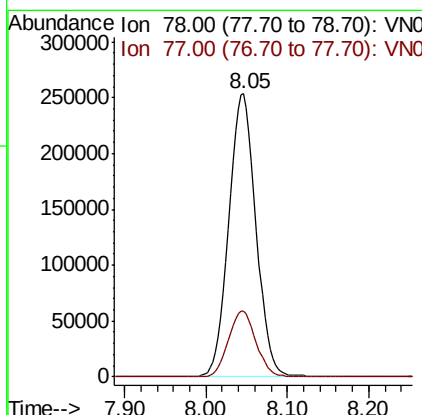
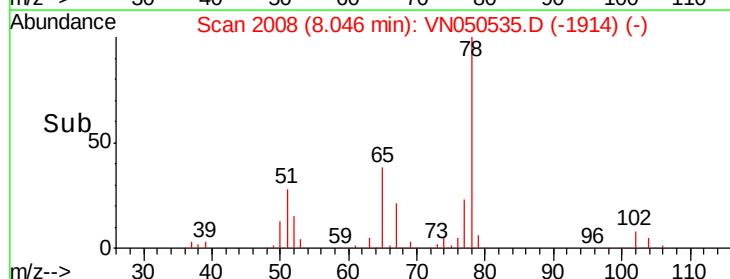
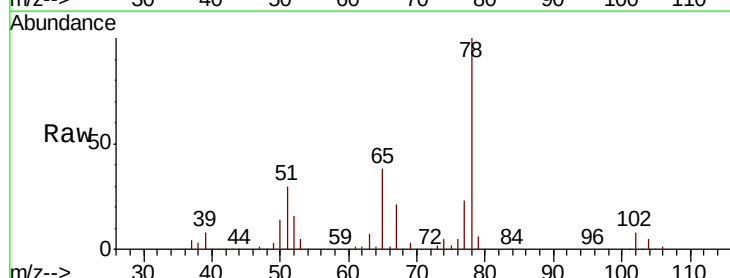
Manual Integrations
APPROVED

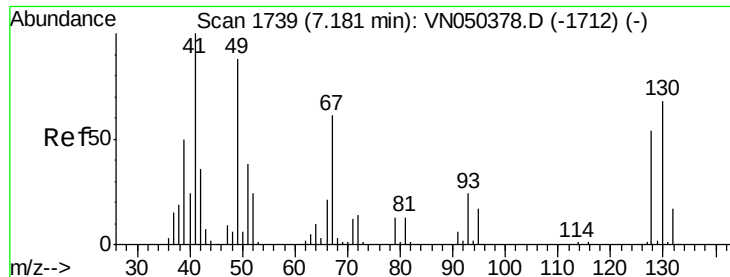
MMDadoda
8/13/2018 11:05:56 AM



#40
Benzene
Concen: 19.68 ug/l
RT: 8.05 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1





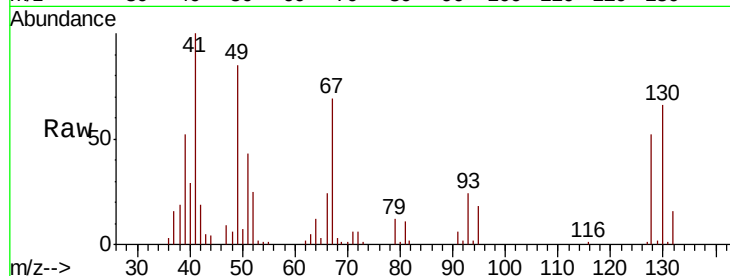
#41
Methacrylonitrile
Concen: 16.39 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
41	100		
39	72.4	55.8	83.6
67	89.7	84.3	126.5
52	35.6	34.2	51.2

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



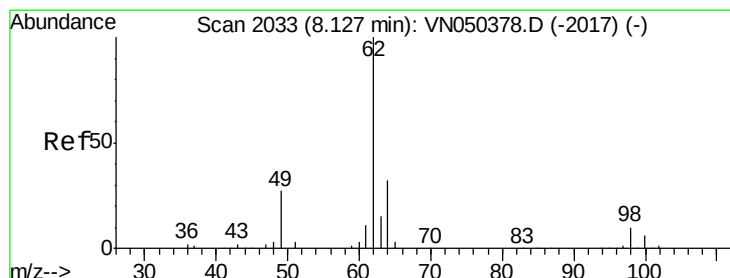
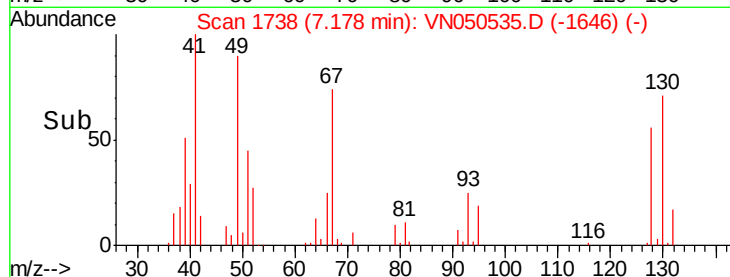
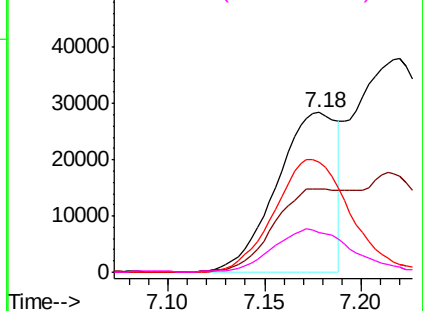
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

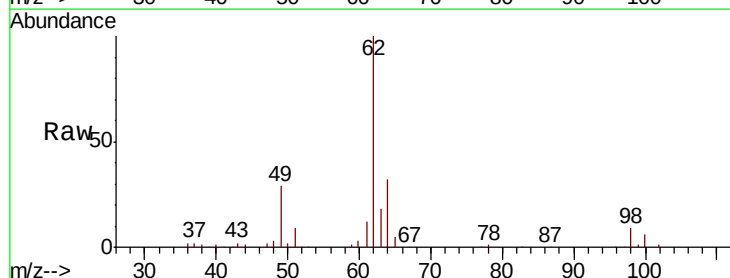
Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42
1,2-Dichloroethane
Concen: 19.42 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

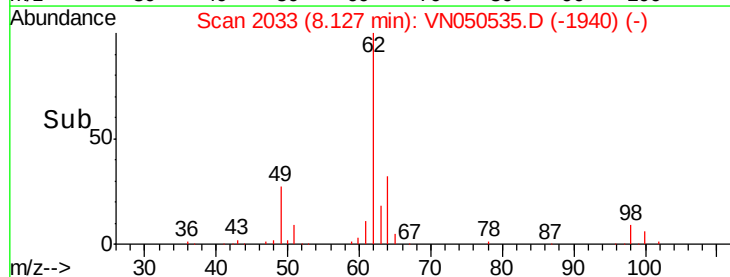
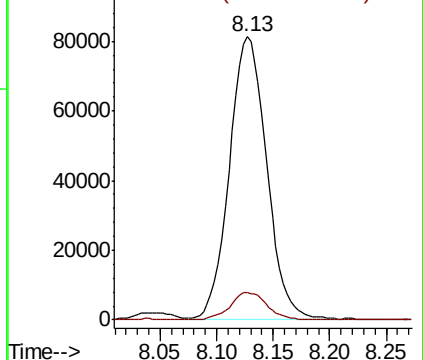
Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.8

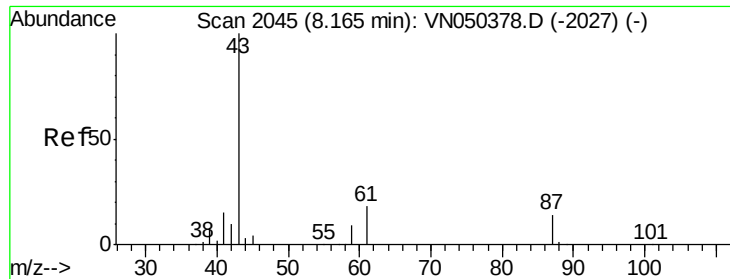


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 18.50 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion: 43 Resp: 225286

Ion Ratio Lower Upper

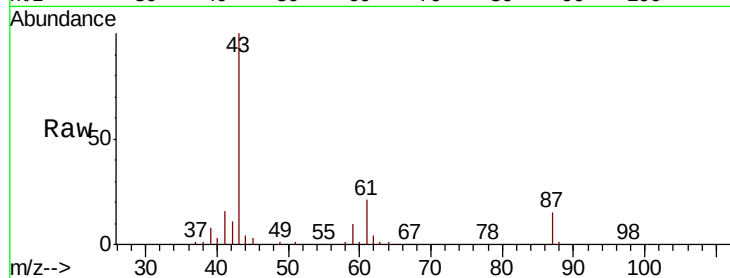
43 100

61 28.2 15.8 23.6#

87 13.3 10.3 15.5

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM

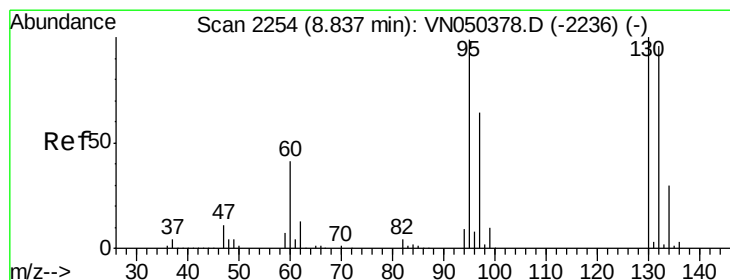
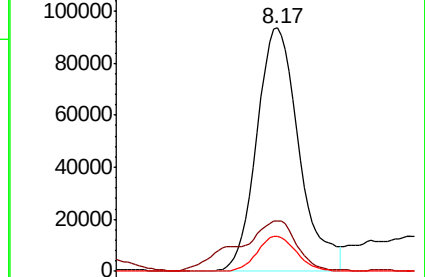
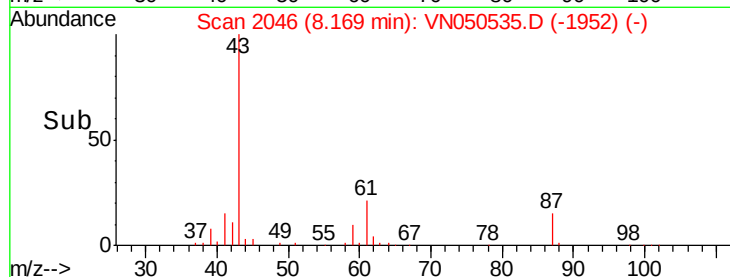


Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-2027) (-)

Ion 61.00 (60.70 to 61.70): VN050378.D (-2027) (-)

Ion 87.00 (86.70 to 87.70): VN050378.D (-2027) (-)

8.17



#44

Trichloroethene

Concen: 19.20 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN050535.D

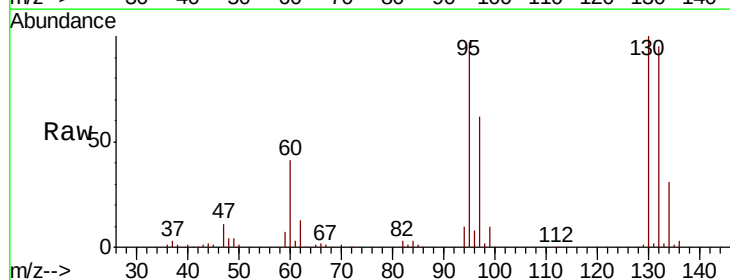
Acq: 10 Aug 2018 23:13

Tgt Ion:130 Resp: 155362

Ion Ratio Lower Upper

130 100

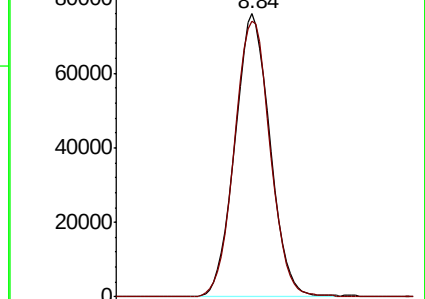
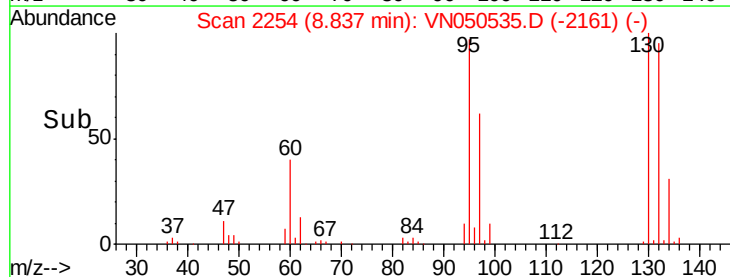
95 97.5 0.0 194.6

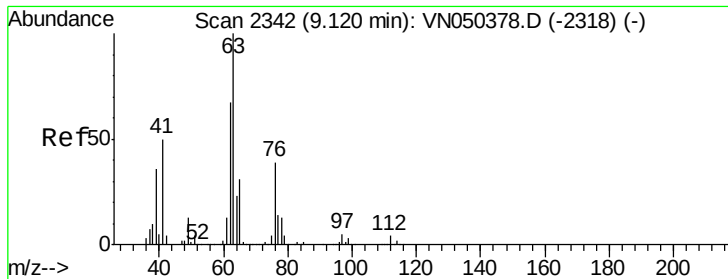


Abundance Ion 129.80 (129.50 to 130.50): VN050378.D (-2236) (-)

Ion 94.90 (94.60 to 95.60): VN050378.D (-2236) (-)

8.84





#45

1,2-Dichloropropane

Concen: 19.97 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampled :

VN0810WBSD02

Tot Ion: 63 Resp: 158134

Ion Ratio Lower Upper

63 100

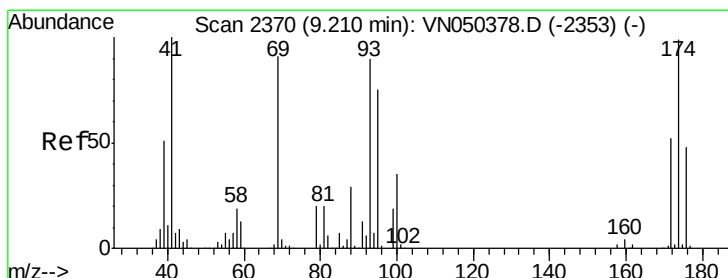
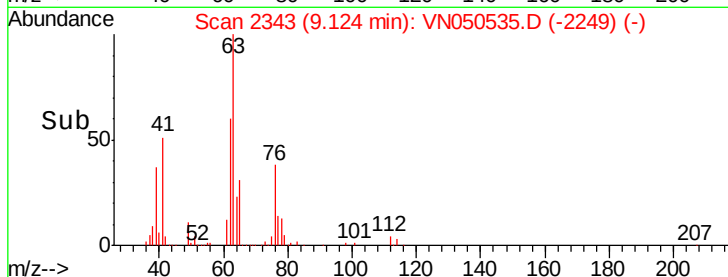
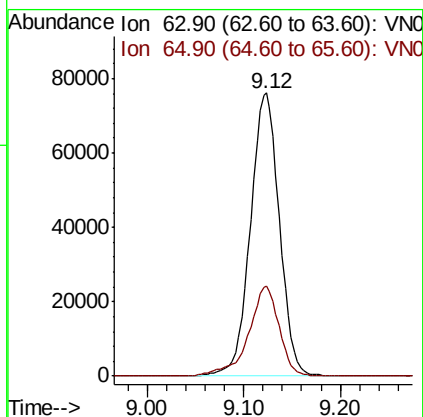
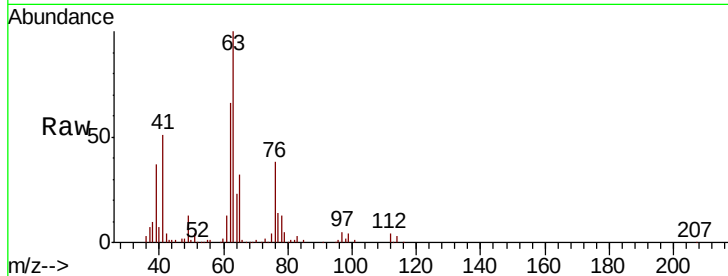
65 31.8 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM



#46

Dibromomethane

Concen: 18.90 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

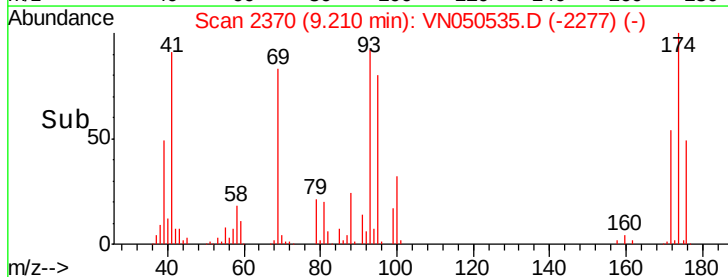
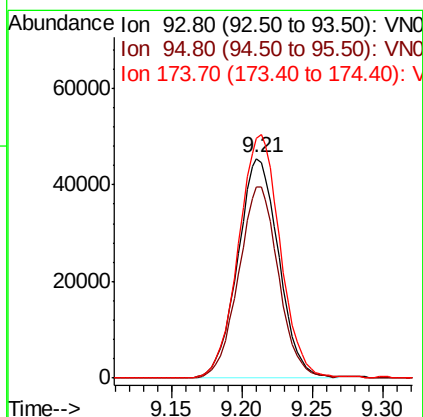
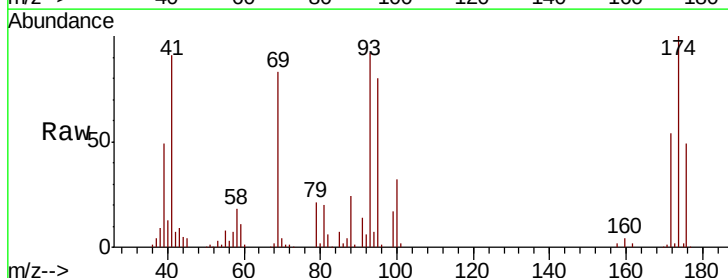
Tgt Ion: 93 Resp: 92406

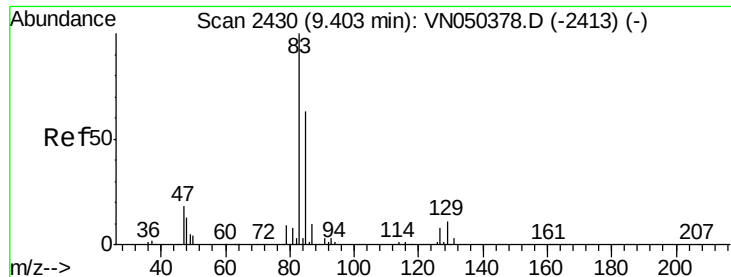
Ion Ratio Lower Upper

93 100

95 85.0 66.6 100.0

174 112.8 87.1 130.7





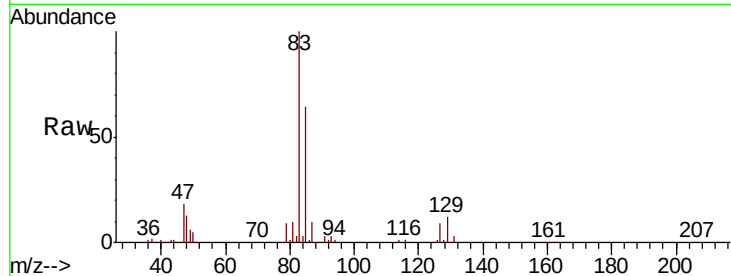
#47
Bromodichloromethane
Concen: 19.46 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

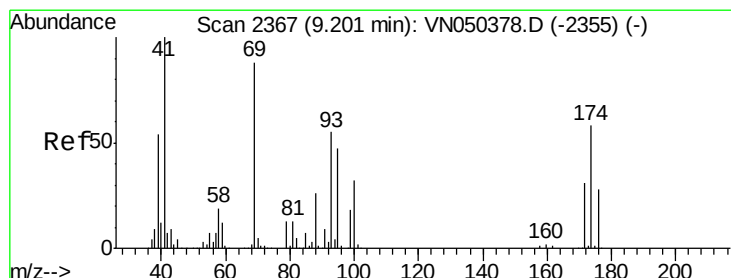
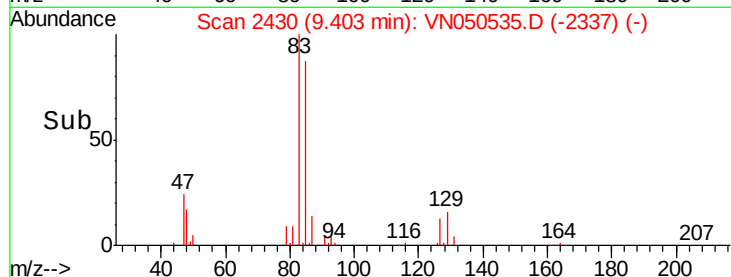
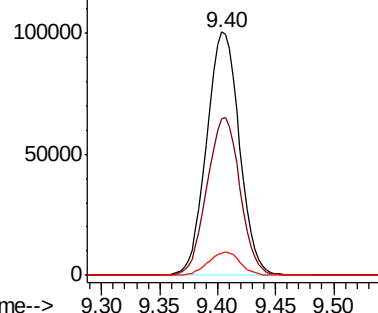
Tot Ion	Ratio	Resp	Lower	Upper
83	100	197053		
85	64.2		51.1	76.7
127	9.2		7.0	10.4

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM

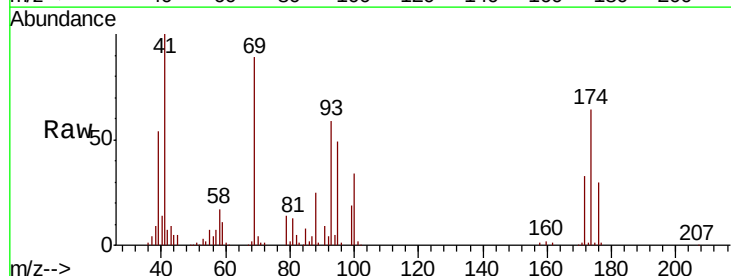


Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V

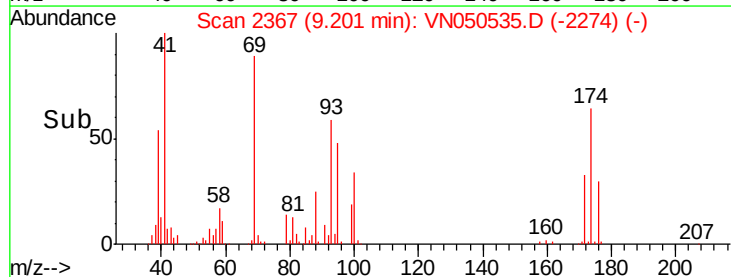
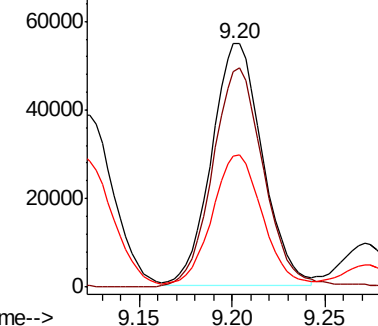


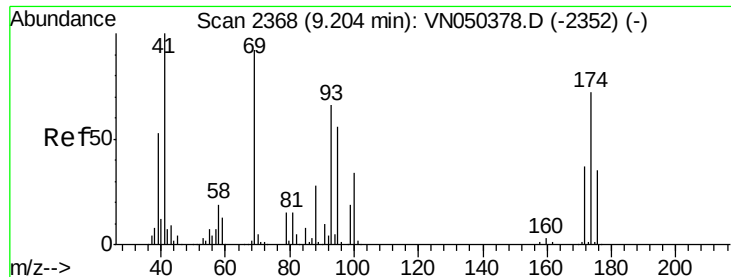
#48
Methyl methacrylate
Concen: 17.12 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	104513		
69	90.8		70.6	105.8
39	53.8		43.9	65.9



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





#49

1,4-Dioxane

Concen: 300.43 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

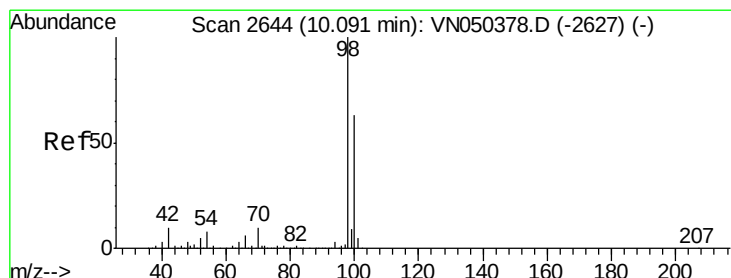
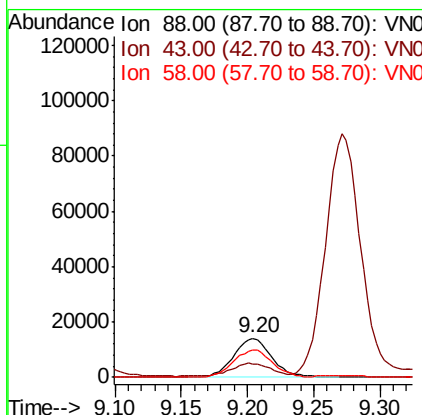
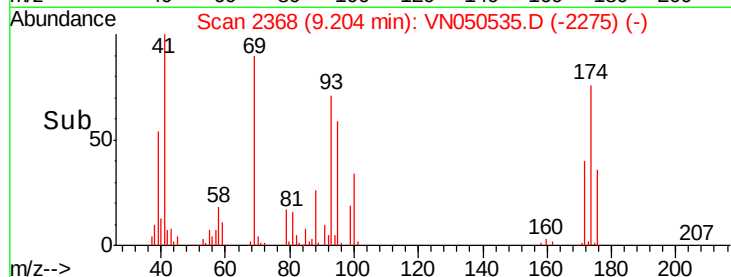
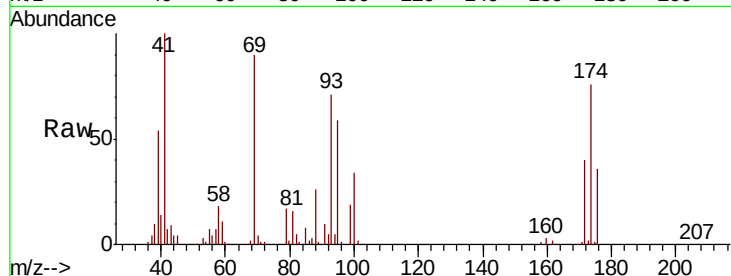
ClientSampleId :

VN0810WBSD02

Tot Ion:	88	Resp:	28265
Ion	Ratio	Lower	Upper
88	100		
43	34.5	26.9	40.3
58	71.8	57.3	85.9

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



#50

Toluene-d8

Concen: 48.90 ug/l

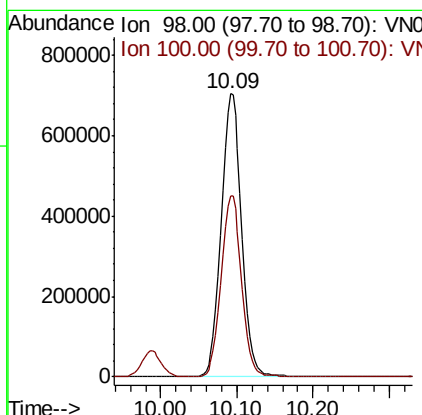
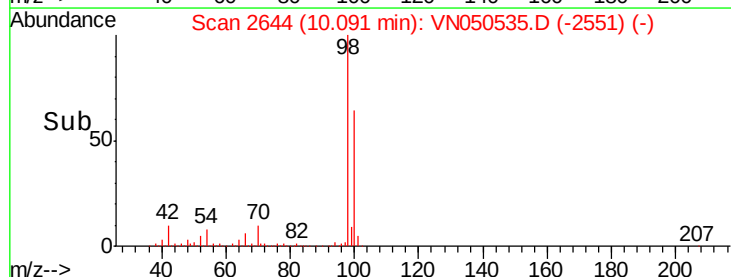
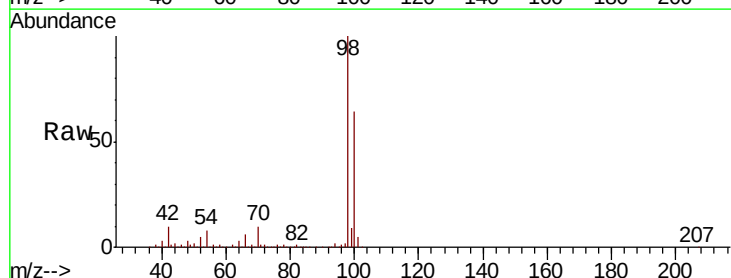
RT: 10.09 min Scan# 2644

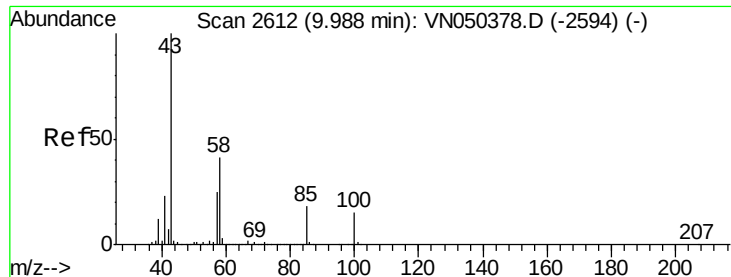
Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Tgt Ion:	98	Resp:	1315347
Ion	Ratio	Lower	Upper
98	100		
100	64.2	50.7	76.1





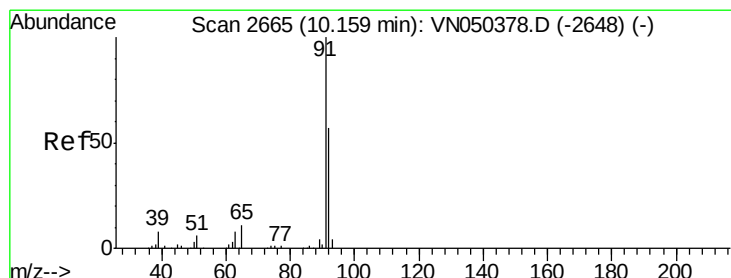
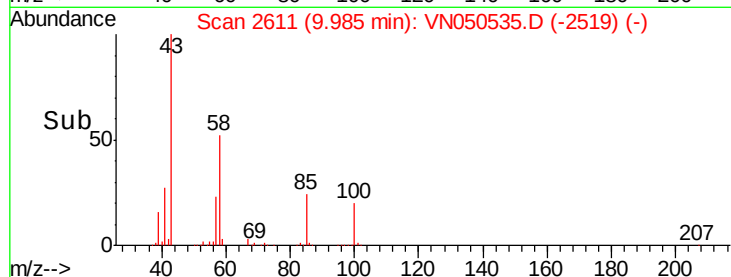
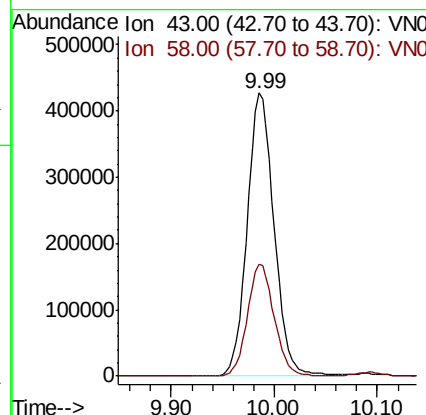
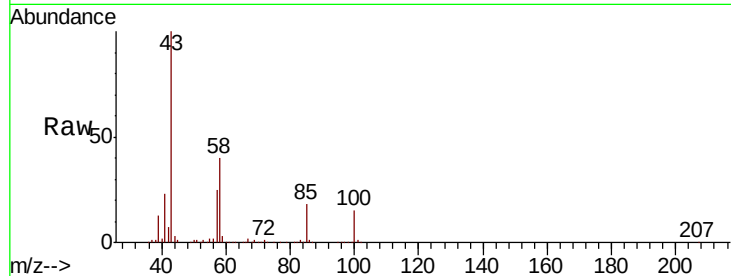
#51
4-Methyl-2-Pentanone
Concen: 87.81 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.9	47.9

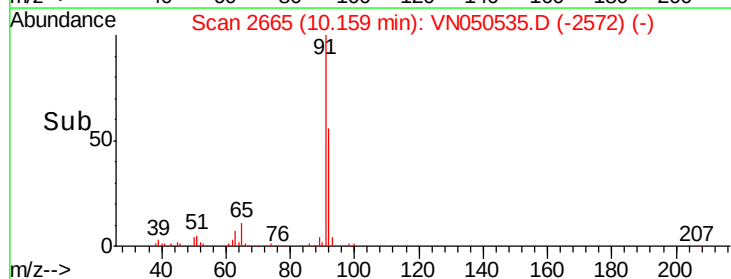
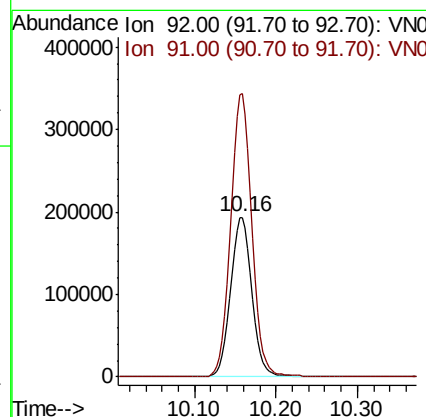
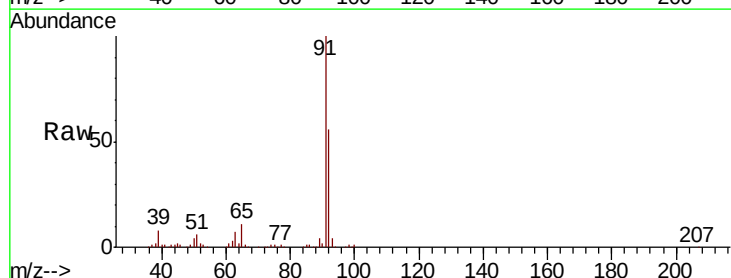
Manual Integrations
APPROVED

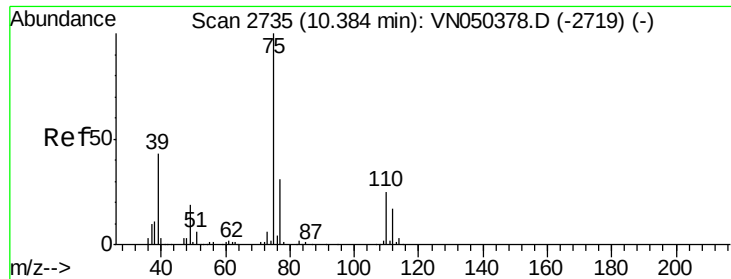
MMDadoda
8/13/2018 11:05:56 AM



#52
Toluene
Concen: 19.82 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
92	100		
91	176.2	140.3	210.5





#53

t-1,3-Dichloropropene

Concen: 17.84 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampled :

VN0810WBSD02

Tot Ion: 75 Resp: 181382

Ion Ratio Lower Upper

75 100

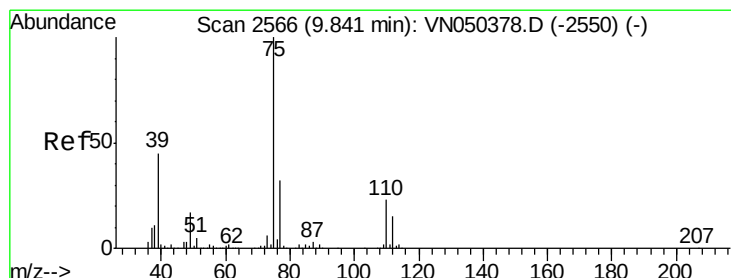
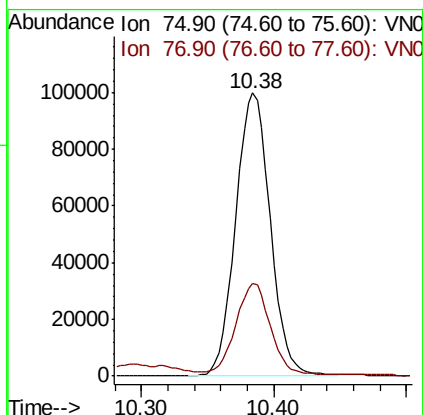
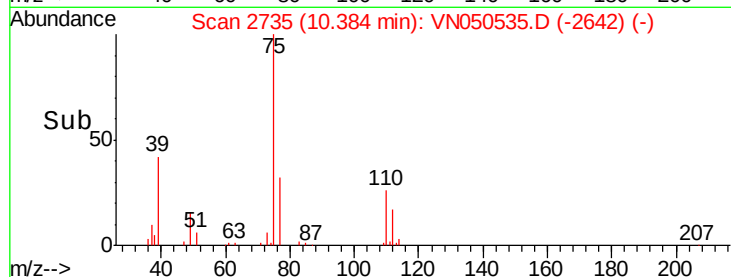
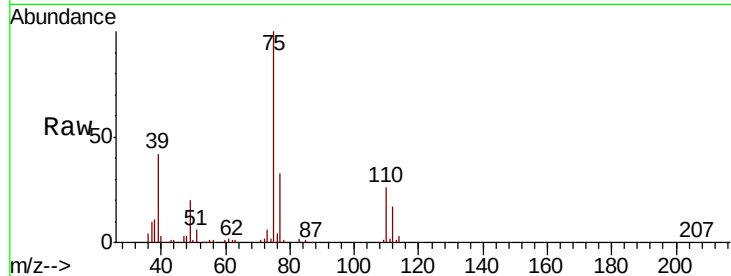
77 31.8 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM



#54

cis-1,3-Dichloropropene

Concen: 18.89 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

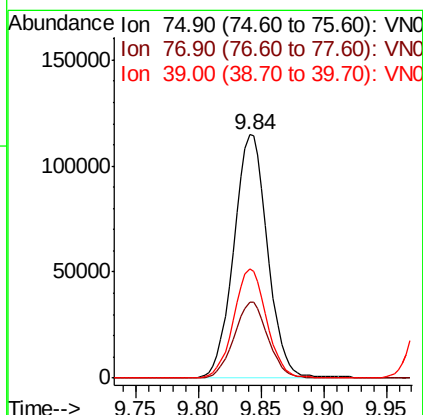
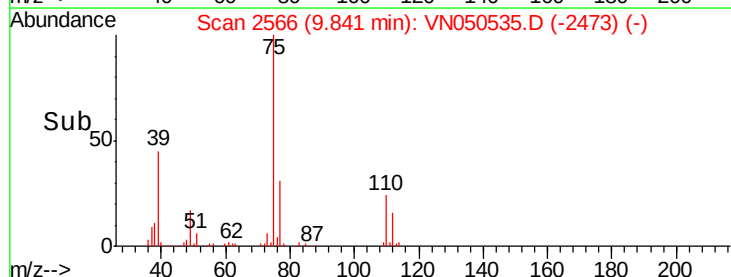
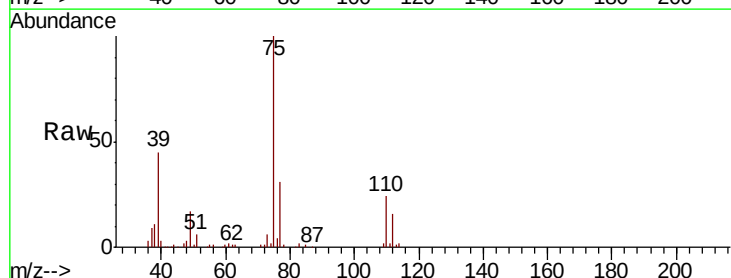
Tgt Ion: 75 Resp: 214313

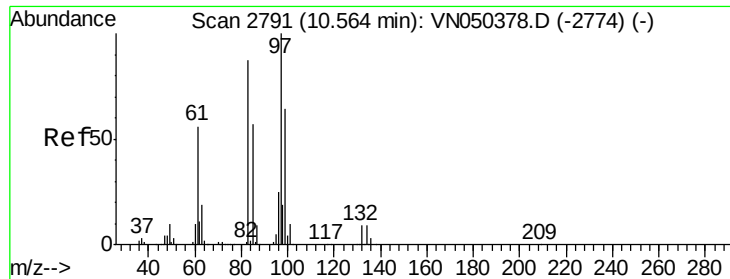
Ion Ratio Lower Upper

75 100

77 31.0 25.5 38.3

39 45.0 36.6 55.0





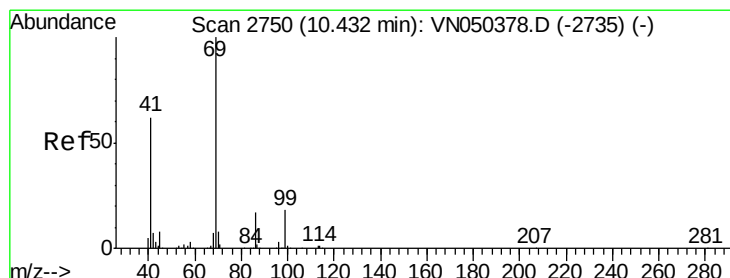
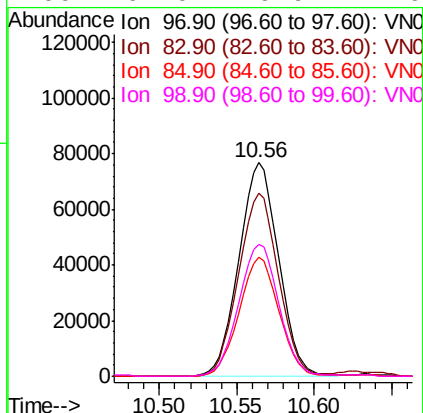
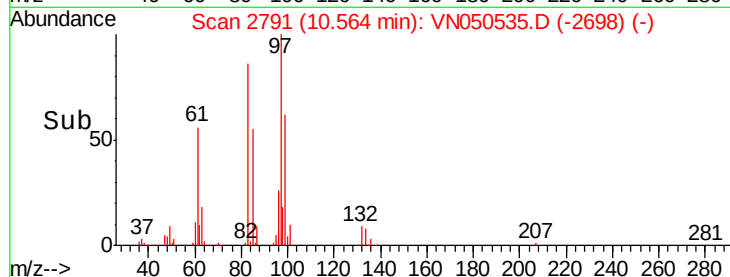
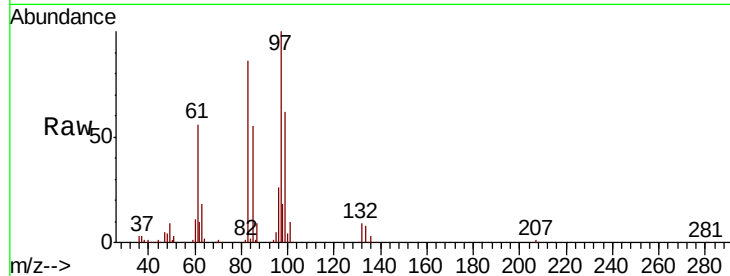
#55
 1,1,2-Trichloroethane
 Concen: 19.39 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		136951		
83	85.8	69.2	103.8		
85	55.5	44.0	66.0		
99	62.0	49.9	74.9		

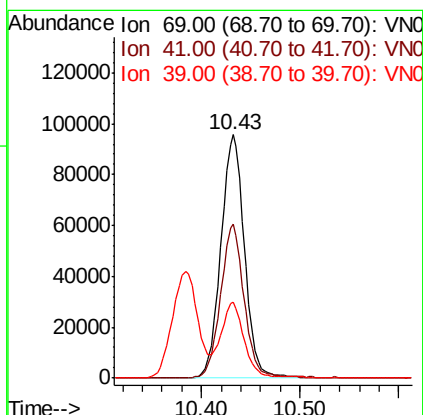
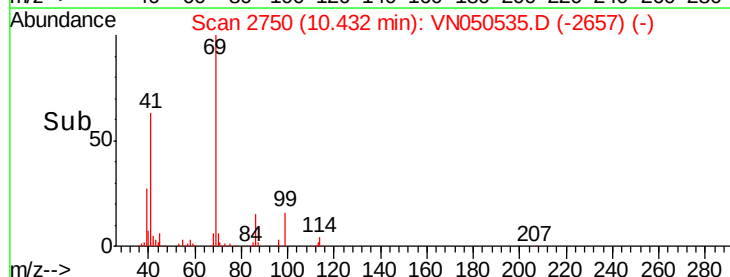
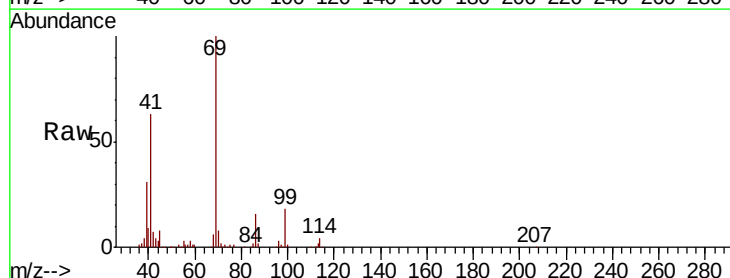
Manual Integrations
 APPROVED

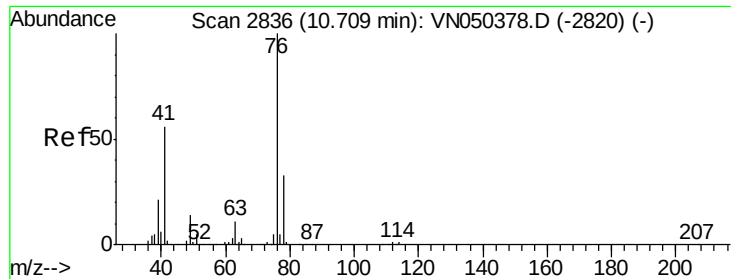
MMDadoda
 8/13/2018 11:05:56 AM



#56
 Ethyl methacrylate
 Concen: 17.23 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		160618		
41	62.2	51.0	76.4		
39	30.8	26.6	40.0		





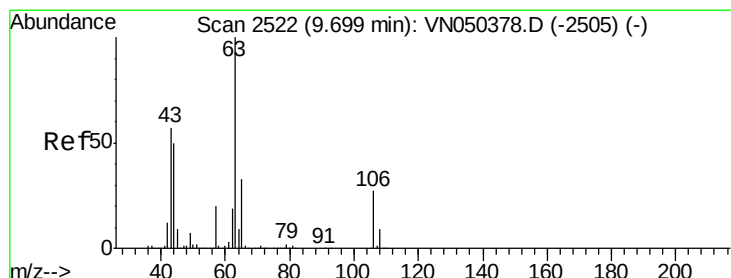
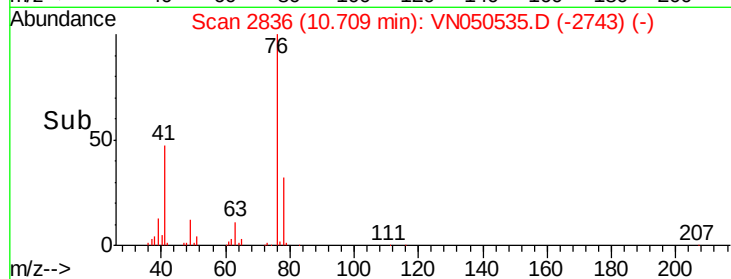
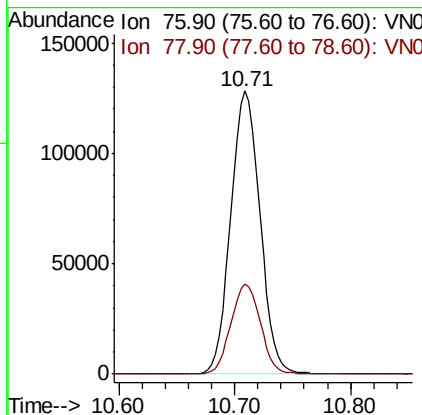
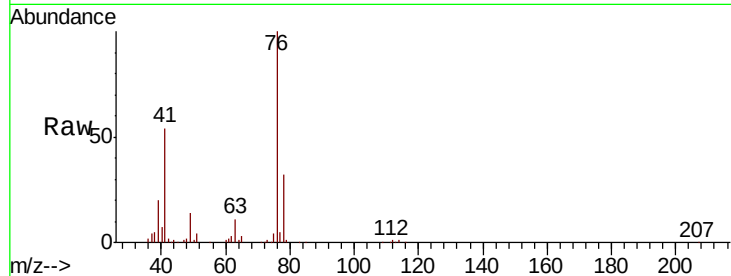
#57
 1,3-Dichloropropane
 Concen: 19.42 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.7	38.5

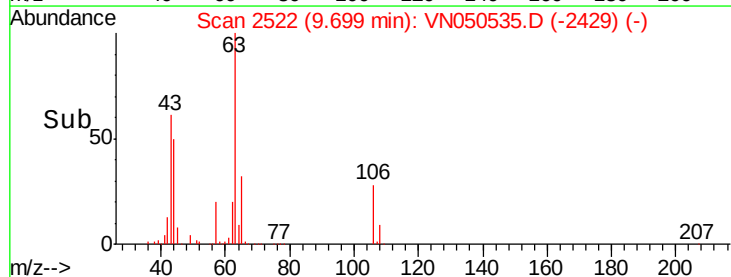
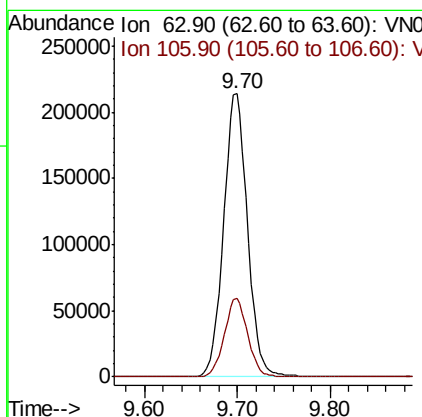
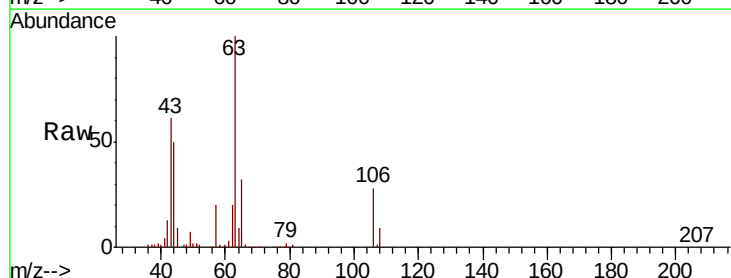
Manual Integrations
 APPROVED

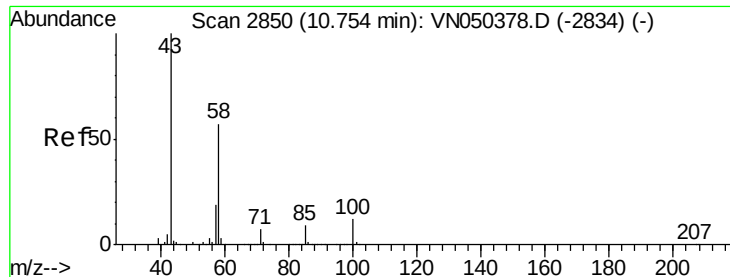
MMDadoda
 8/13/2018 11:05:56 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 86.87 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.7	32.5





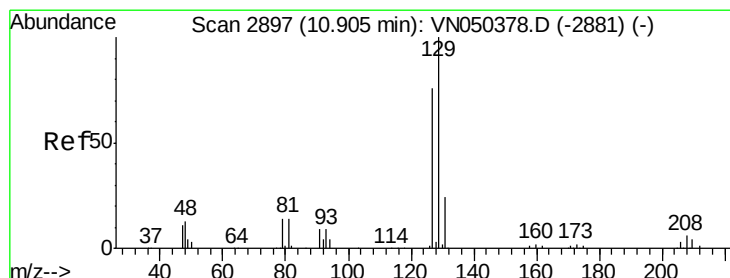
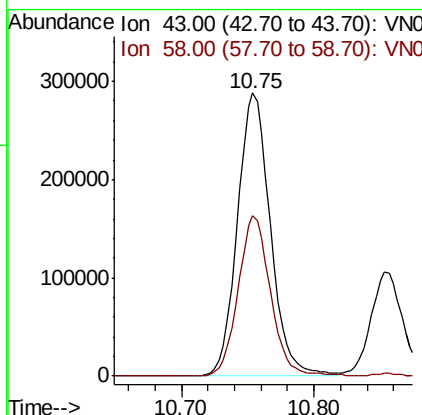
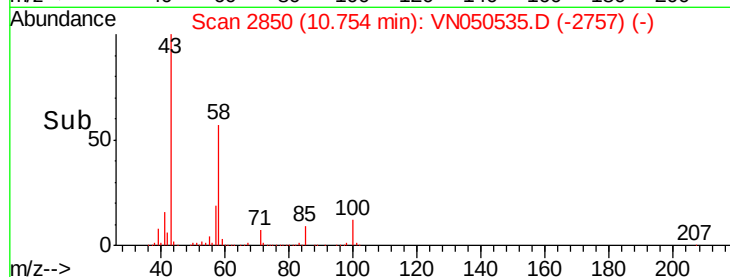
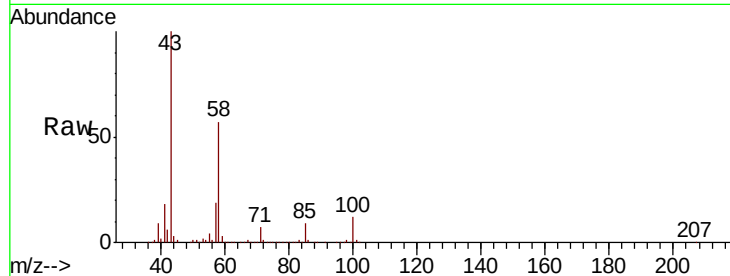
#59
2-Hexanone
Concen: 81.03 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.9	27.6	82.7

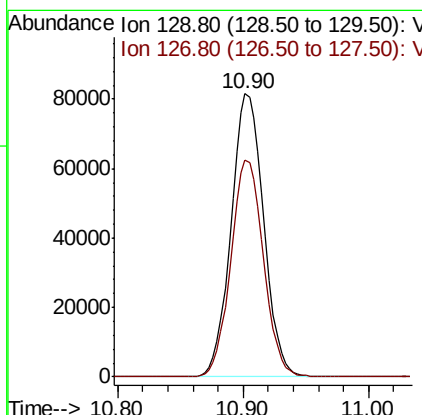
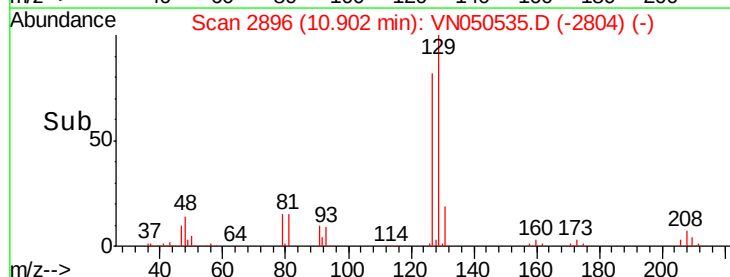
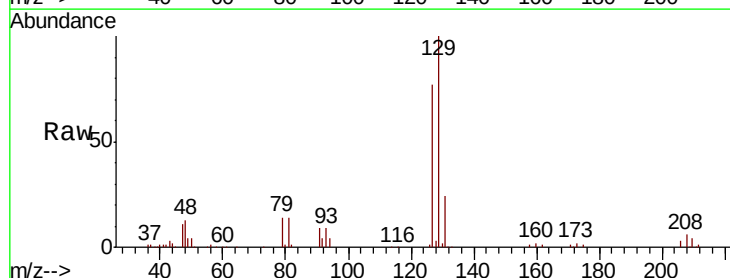
Manual Integrations
APPROVED

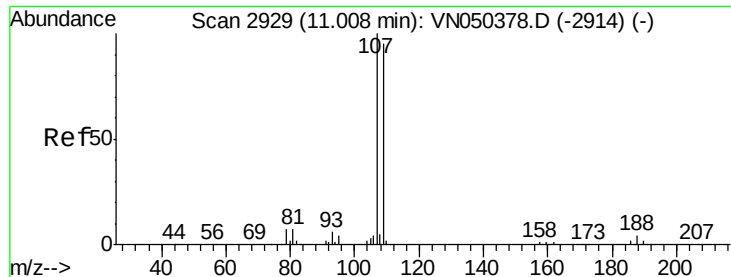
MMDadoda
8/13/2018 11:05:56 AM



#60
Dibromochloromethane
Concen: 18.90 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.6	38.0	113.9





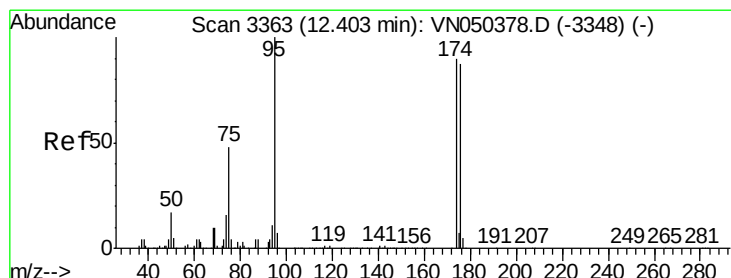
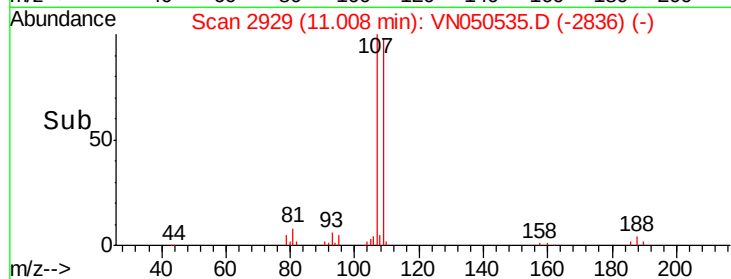
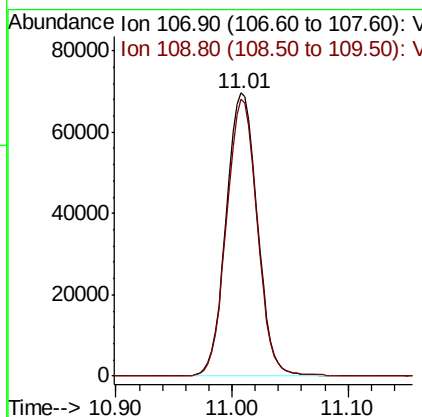
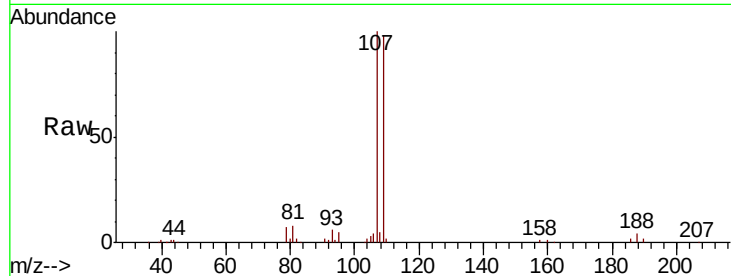
#61
 1,2-Dibromoethane
 Concen: 18.58 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.1	74.6	112.0

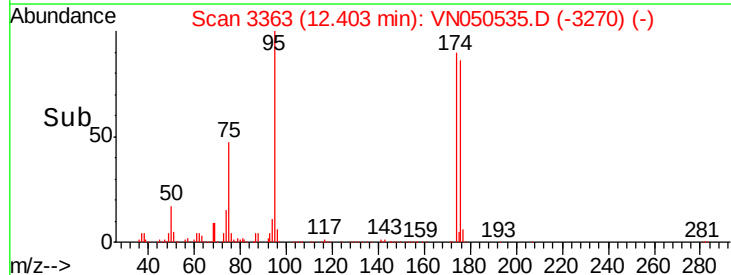
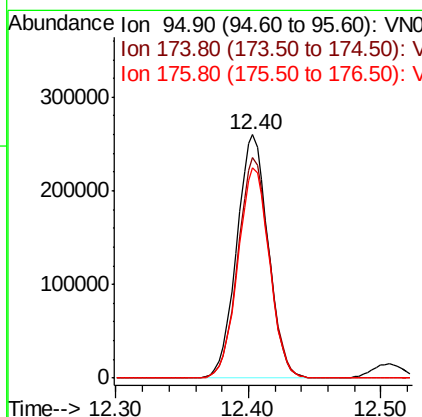
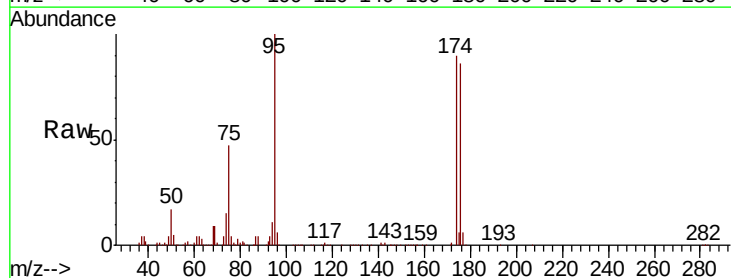
Manual Integrations
 APPROVED

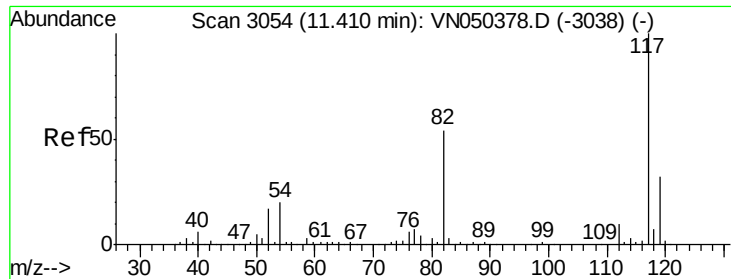
MMDadoda
 8/13/2018 11:05:56 AM



#62
 4-Bromofluorobenzene
 Concen: 46.61 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.4	0.0	178.2
176	86.6	0.0	173.4





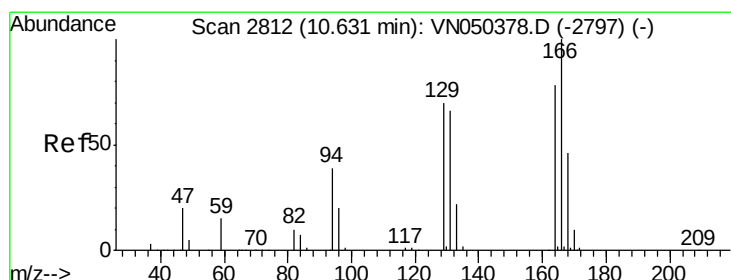
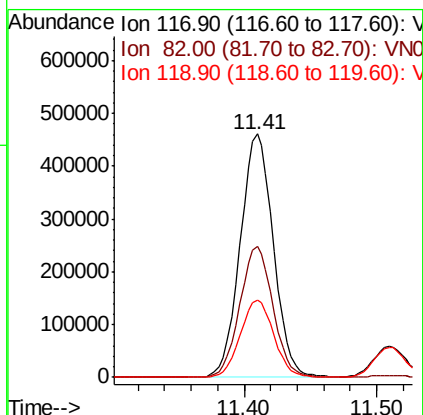
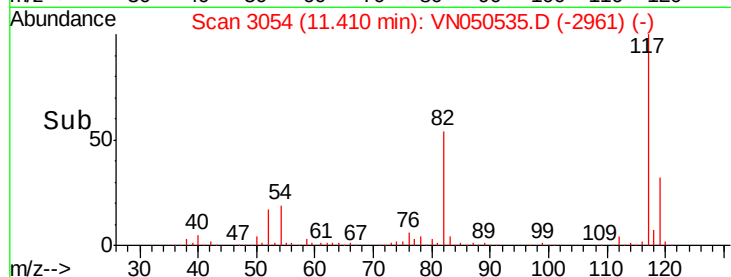
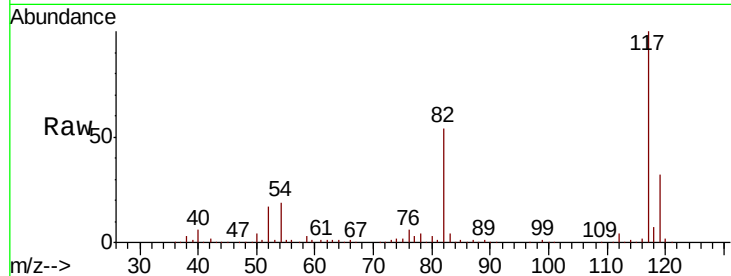
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.7	65.5
119	31.9	26.1	39.1

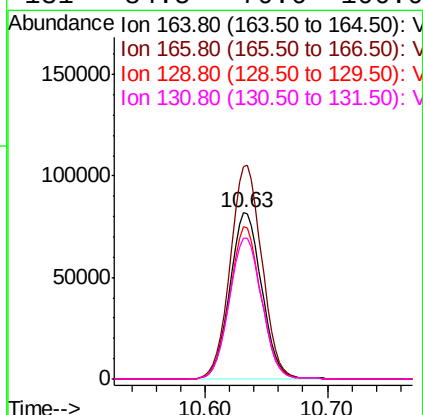
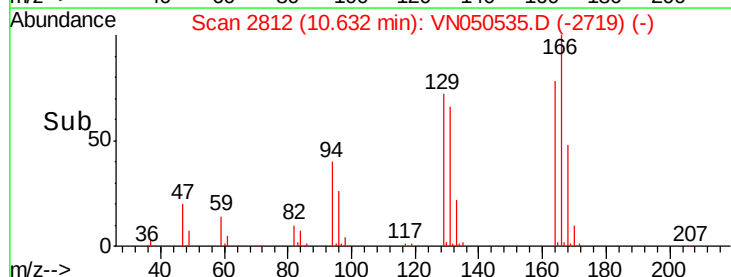
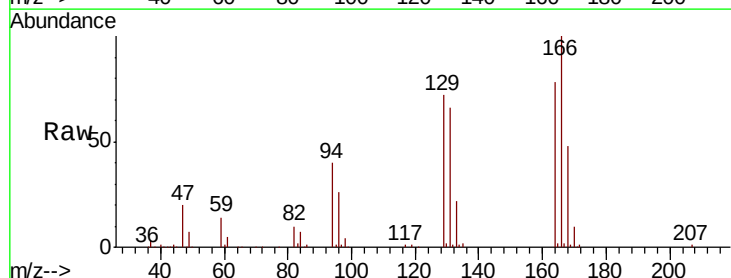
Manual Integrations
APPROVED

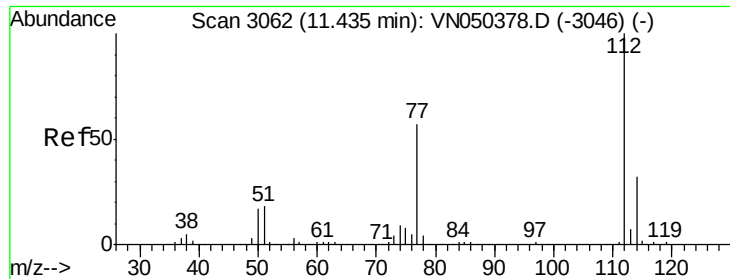
MMDadoda
8/13/2018 11:05:56 AM



#64
Tetrachloroethene
Concen: 19.96 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.8	102.1	153.1
129	91.4	73.2	109.8
131	84.5	70.6	106.0





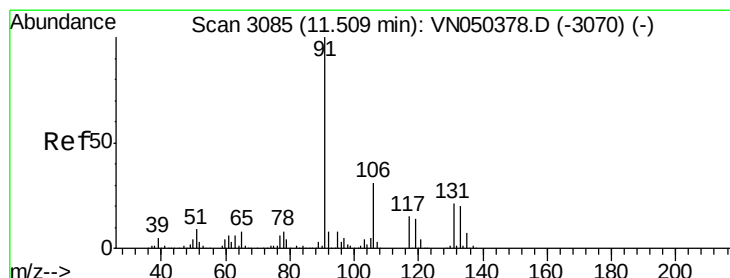
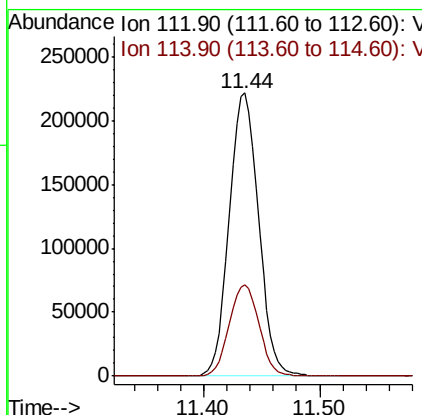
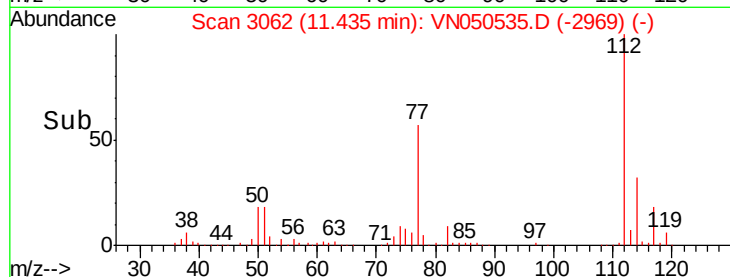
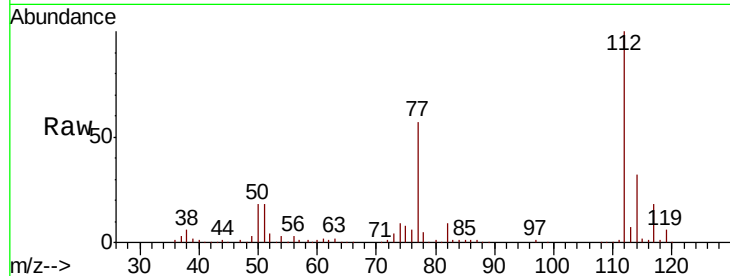
#65
Chlorobenzene
Concen: 19.33 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampled :
VN0810WBSD02

Tot Ion:112 Resp: 387308
Ion Ratio Lower Upper
112 100
114 32.3 25.6 38.4

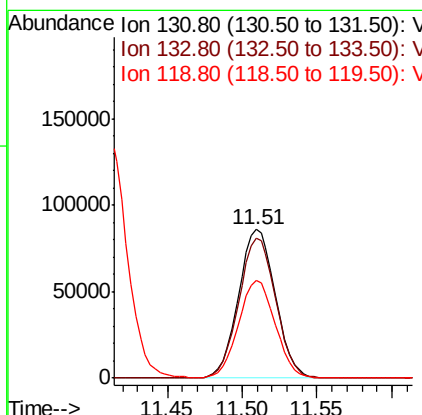
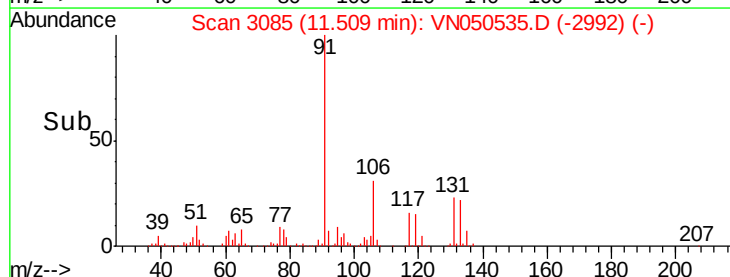
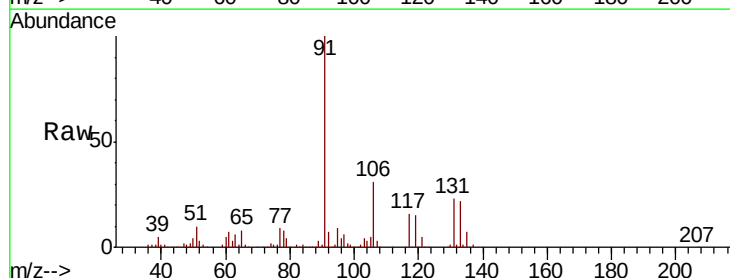
Manual Integrations
APPROVED

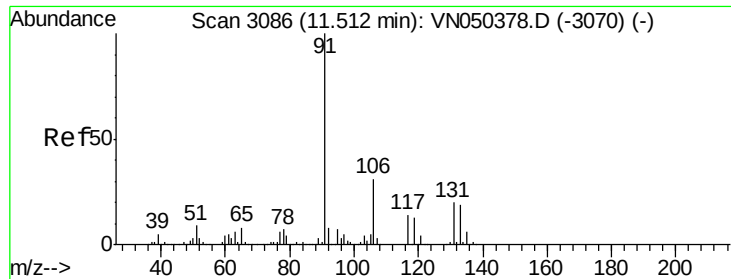
MMDadoda
8/13/2018 11:05:56 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.28 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion:131 Resp: 147880
Ion Ratio Lower Upper
131 100
133 94.2 47.3 141.9
119 65.4 32.9 98.7





#67

Ethyl Benzene

Concen: 19.57 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion: 91 Resp: 633815

Ion Ratio Lower Upper

91 100

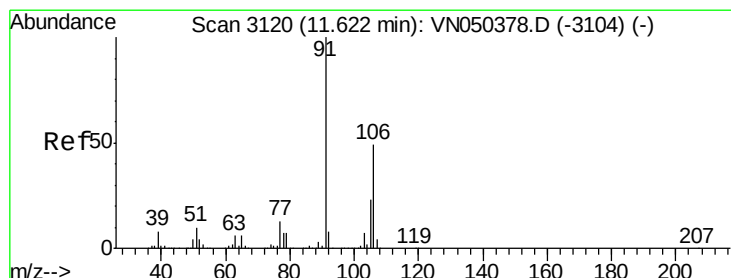
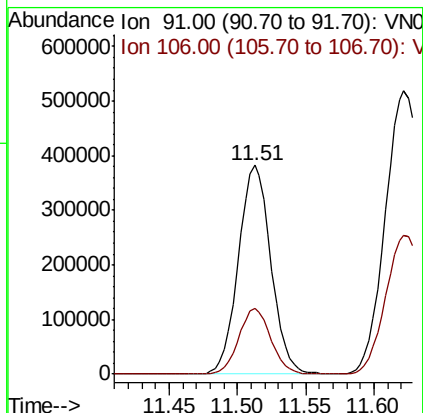
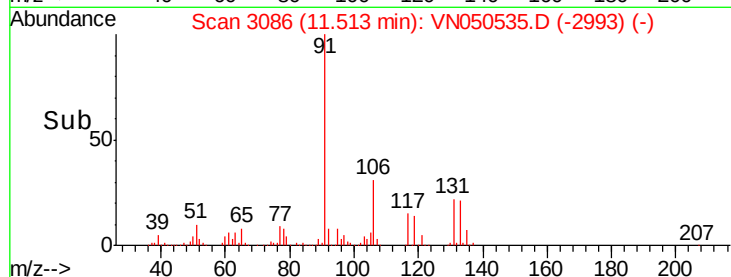
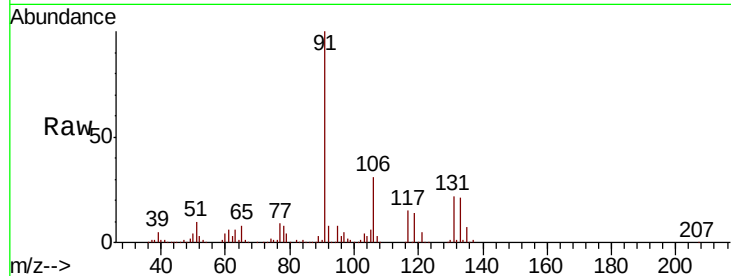
106 31.5 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM



#68

m/p-Xylenes

Concen: 40.27 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050535.D

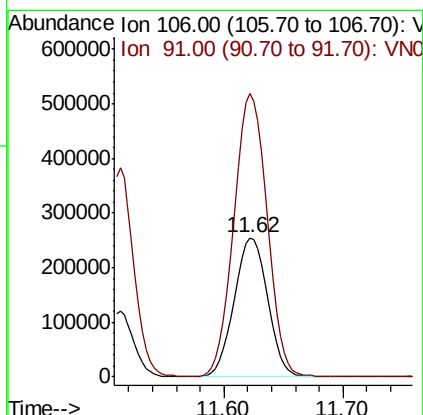
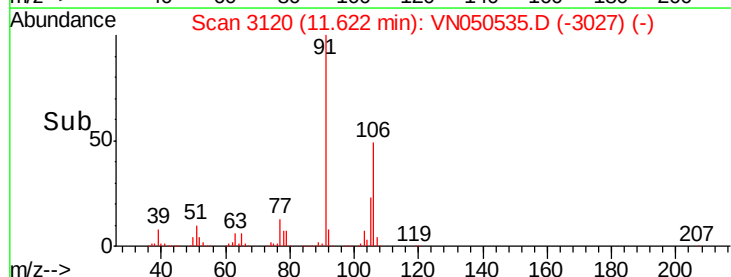
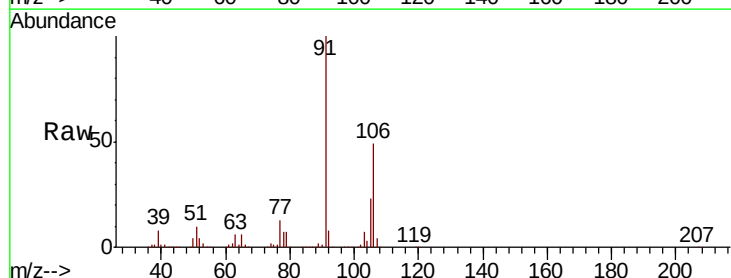
Acq: 10 Aug 2018 23:13

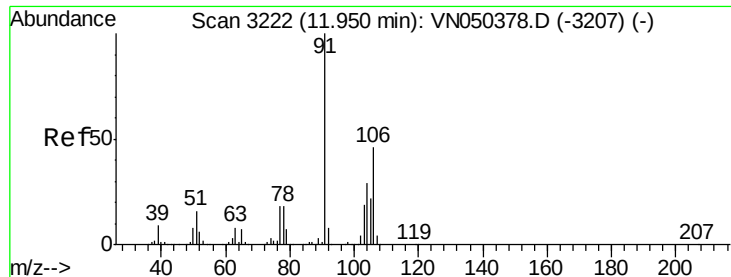
Tgt Ion: 106 Resp: 496531

Ion Ratio Lower Upper

106 100

91 202.9 162.2 243.2





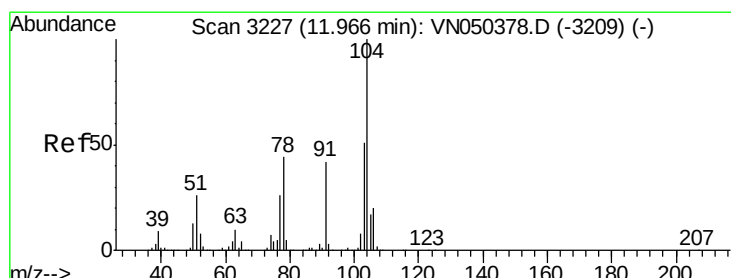
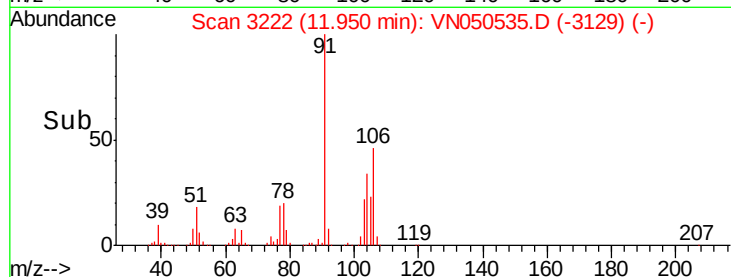
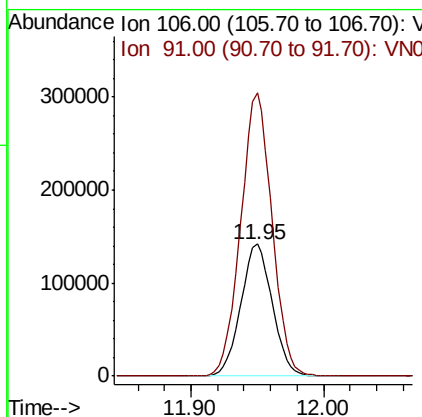
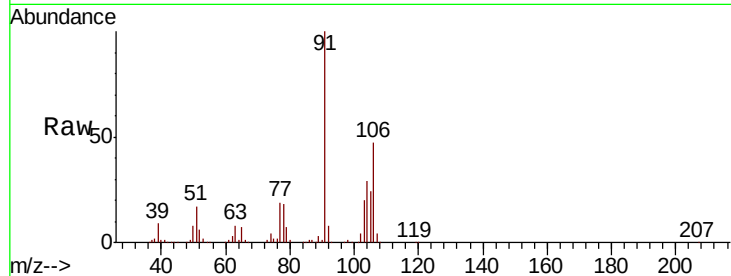
#69
o-Xylene
Concen: 19.72 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampled :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.2	107.7	323.1

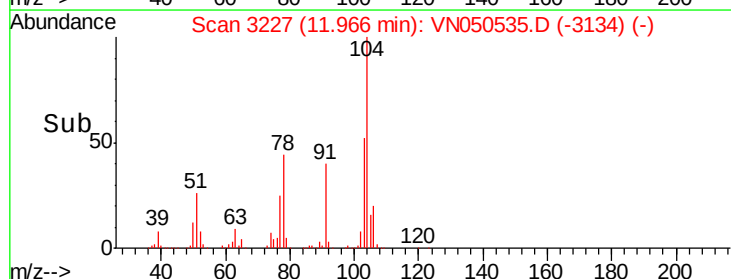
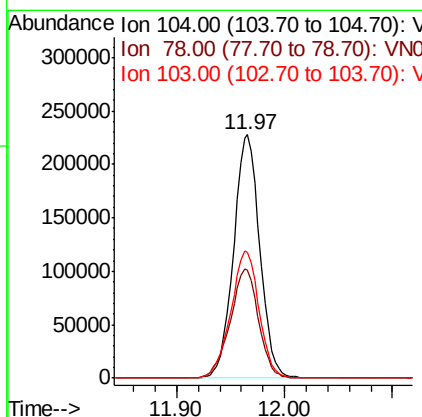
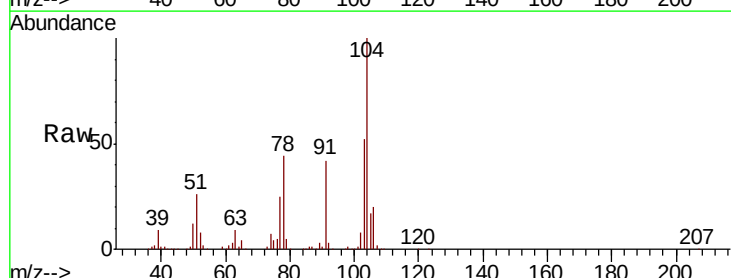
Manual Integrations
APPROVED

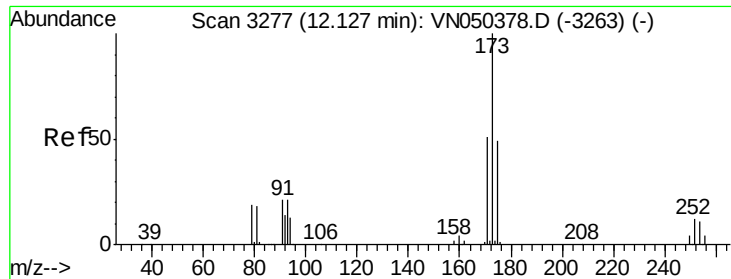
MMDadoda
8/13/2018 11:05:56 AM



#70
Styrene
Concen: 20.01 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.6	39.3	58.9
103	56.5	45.0	67.6





#71

Bromoform

Concen: 18.67 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

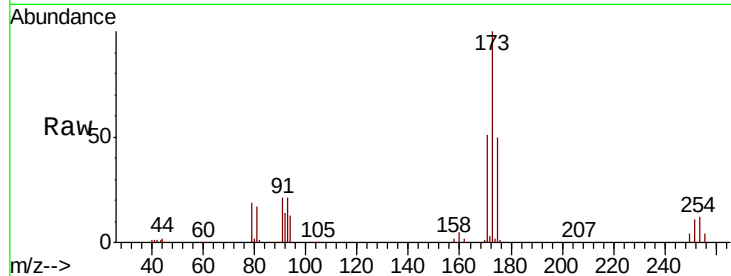
ClientSampled :

VN0810WBSD02

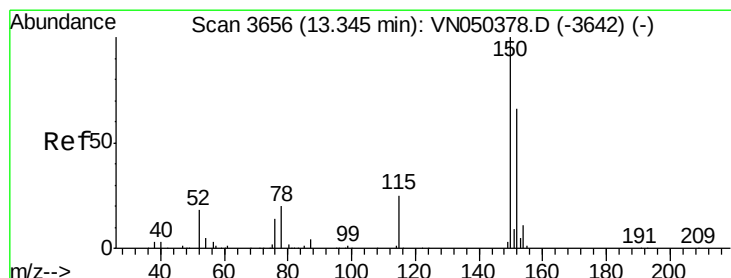
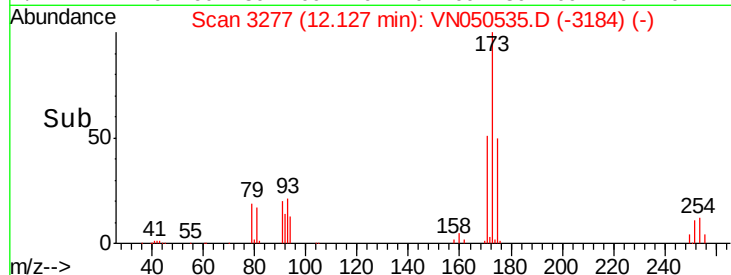
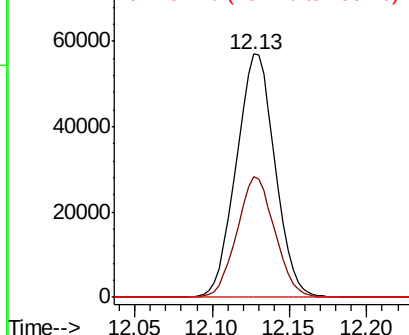
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.1	72.2
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

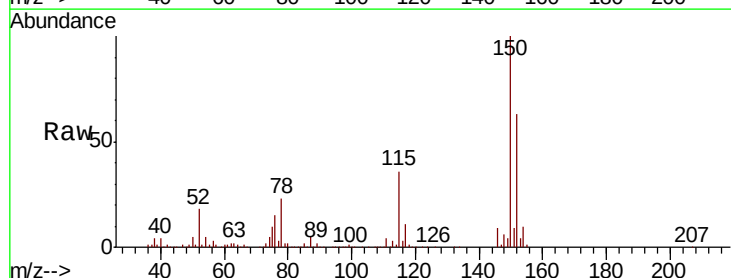
RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

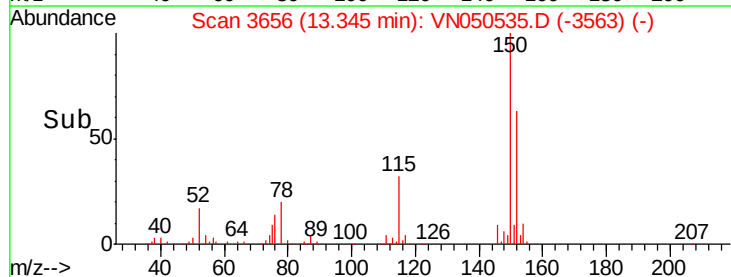
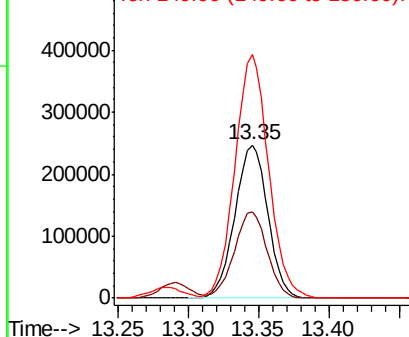
Lab File: VN050535.D

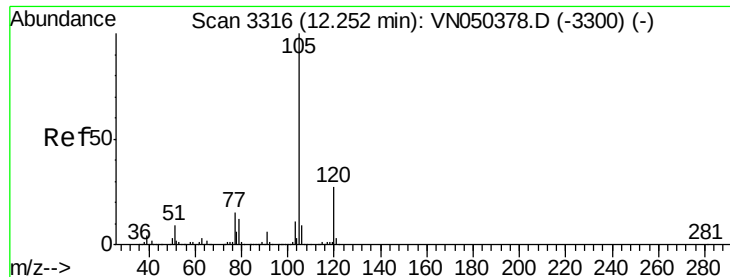
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	27.8	83.3
150	163.1	0.0	348.6



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





#73

Isopropylbenzene

Concen: 20.64 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion:105 Resp: 624256

Ion Ratio Lower Upper

105 100

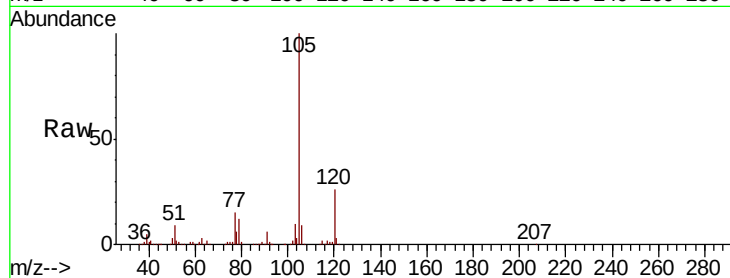
120 26.5 13.3 39.8

Manual Integrations

APPROVED

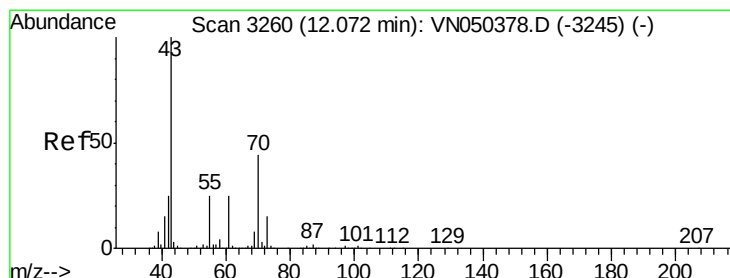
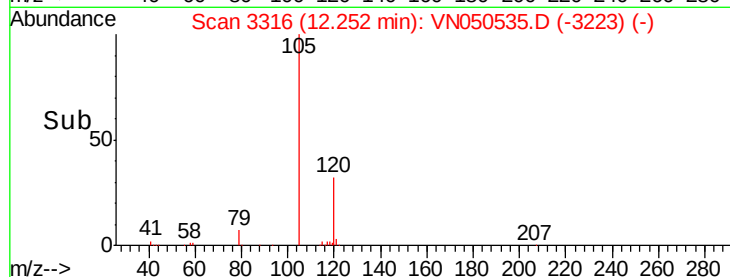
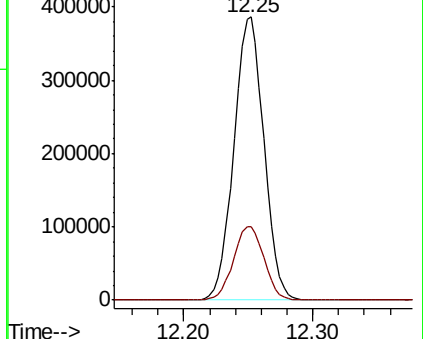
MMDadoda

8/13/2018 11:05:56 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.52 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Tgt Ion: 43 Resp: 171777

Ion Ratio Lower Upper

43 100

70 43.7 34.4 51.6

55 27.1 20.8 31.2

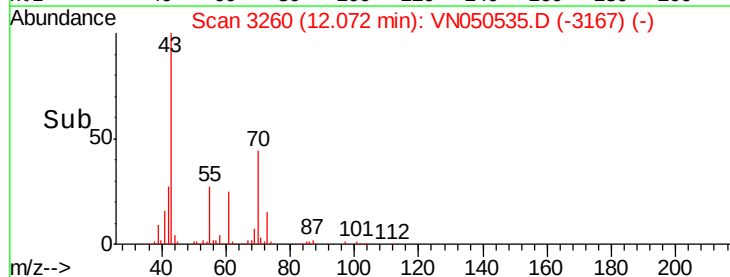
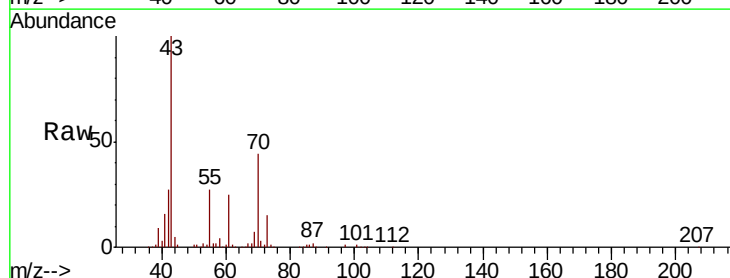
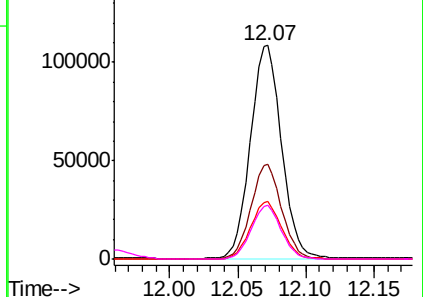
61 24.1 19.7 29.5

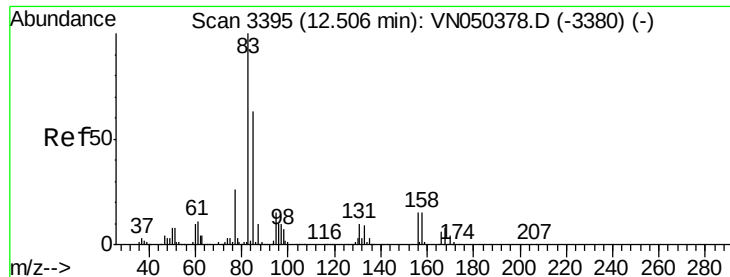
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.58 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

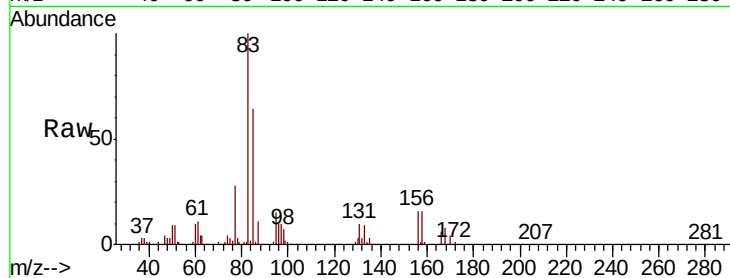
ClientSampled :

VN0810WBSD02

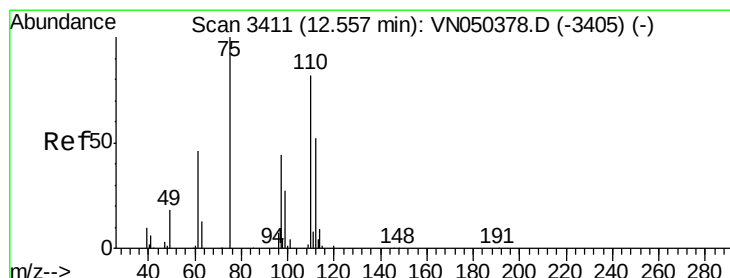
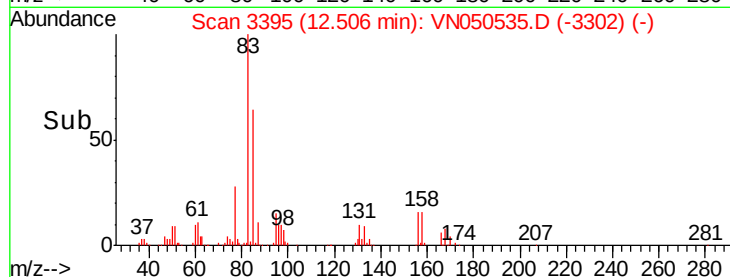
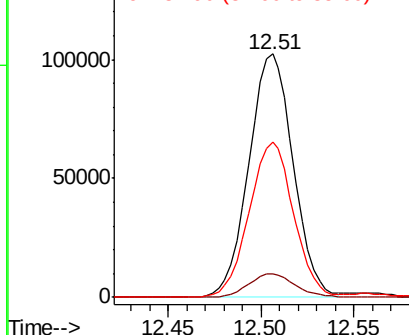
Tot Ion:	83	Resp:	170885
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.1	15.3
85	64.0	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 19.88 ug/l m

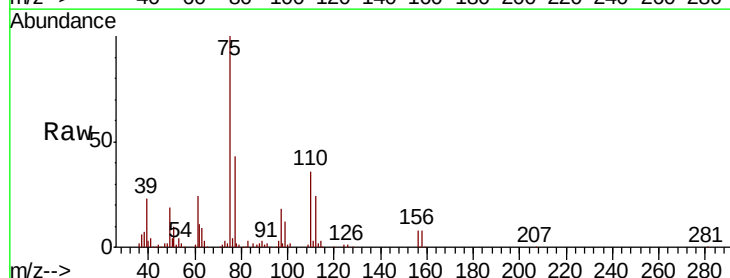
RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

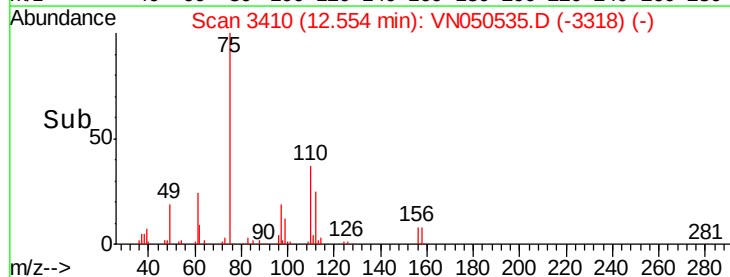
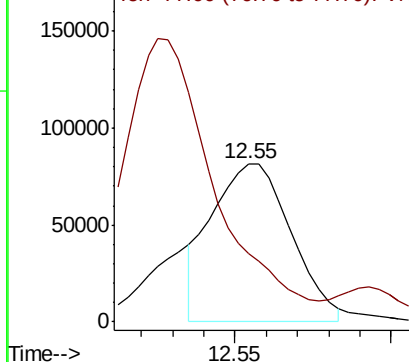
Lab File: VN050535.D

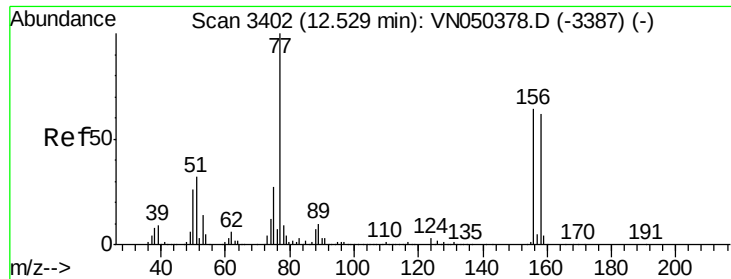
Acq: 10 Aug 2018 23:13

Tgt Ion:	75	Resp:	145027
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 20.50 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

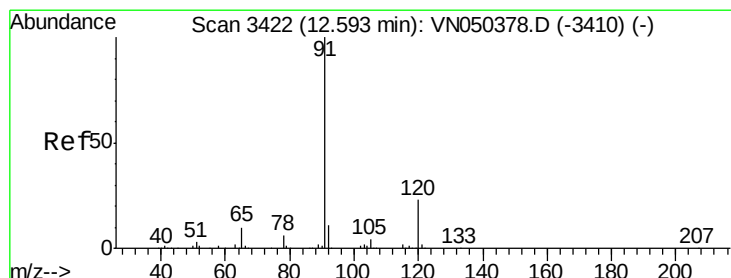
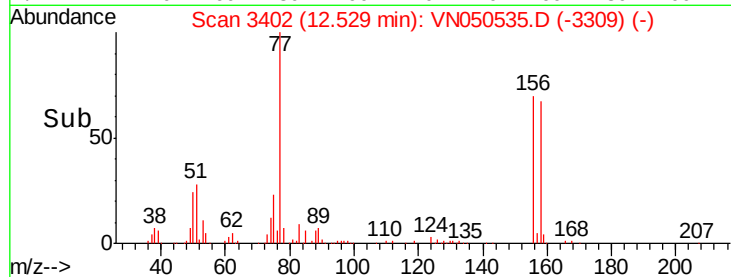
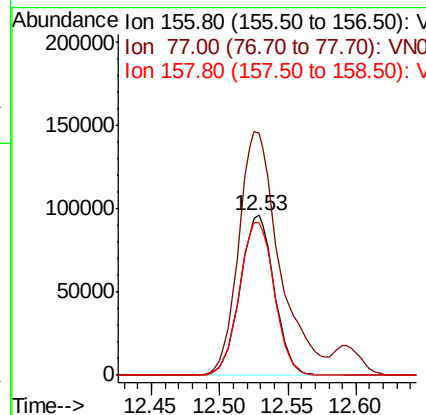
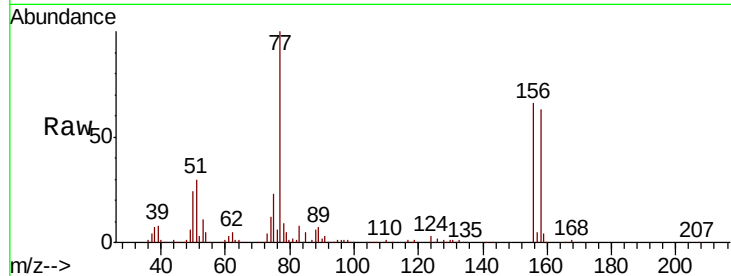
ClientSampleId :

VN0810WBSD02

Tot Ion:	156	Resp:	166130
Ion Ratio	Lower	Upper	
156	100		
77	182.1	91.7	275.1
158	97.9	48.9	146.6

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



#78

n-propylbenzene

Concen: 20.53 ug/l

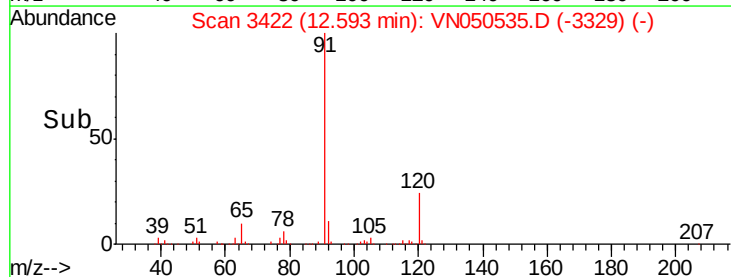
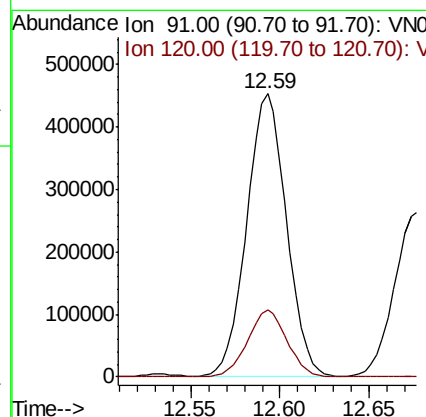
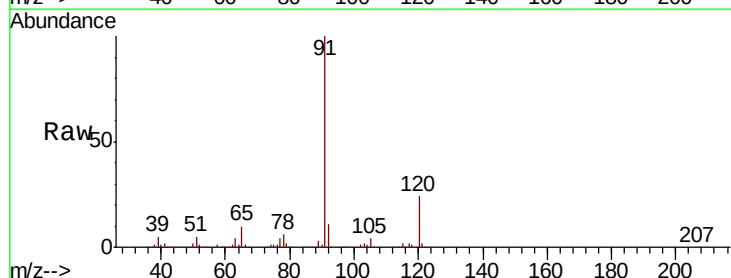
RT: 12.59 min Scan# 3422

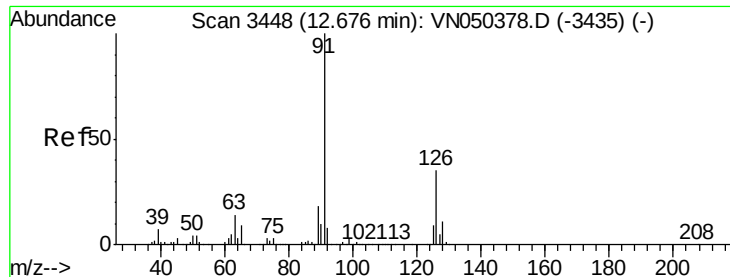
Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Tgt Ion:	91	Resp:	702761
Ion Ratio	Lower	Upper	
91	100		
120	23.5	11.6	34.7





#79

2-Chlorotoluene

Concen: 20.65 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampled :

VN0810WBSD02

Tot Ion: 91 Resp: 436557

Ion Ratio Lower Upper

91 100

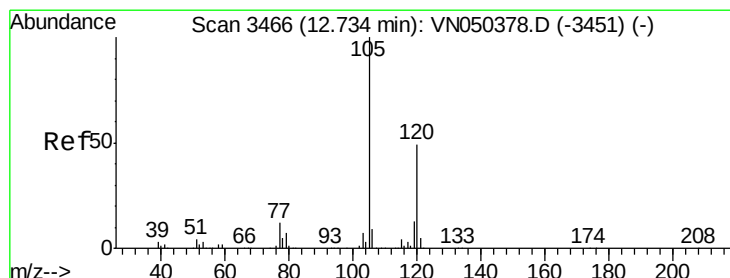
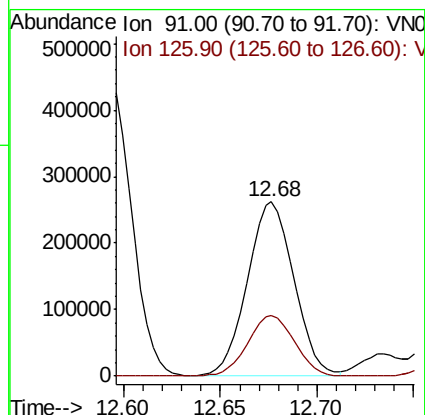
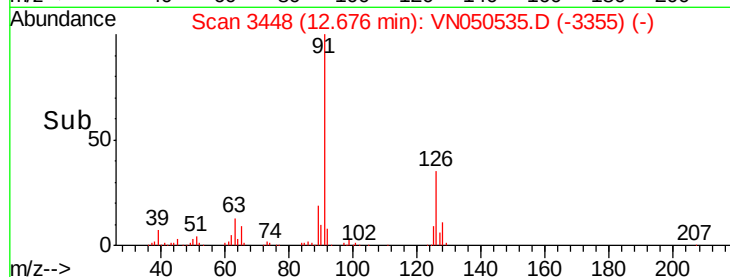
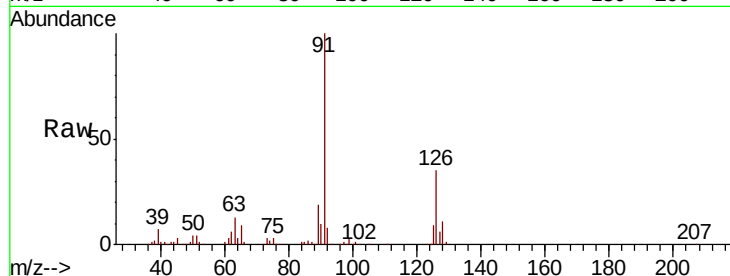
126 35.3 17.6 52.8

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM



#80

1,3,5-Trimethylbenzene

Concen: 20.93 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050535.D

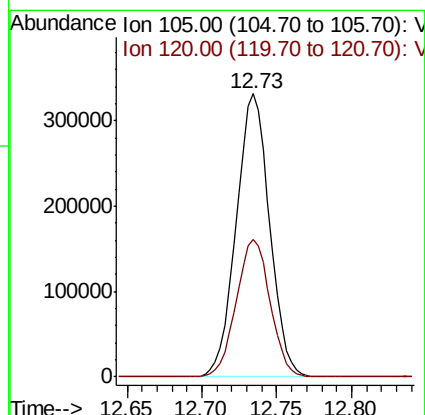
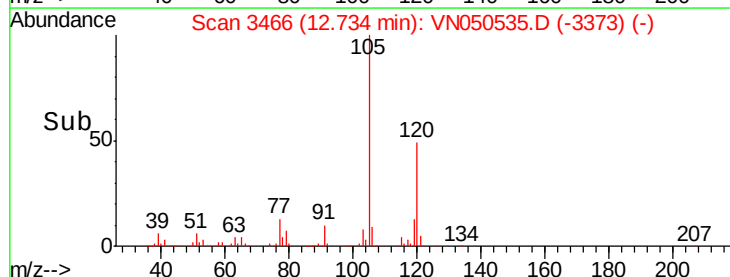
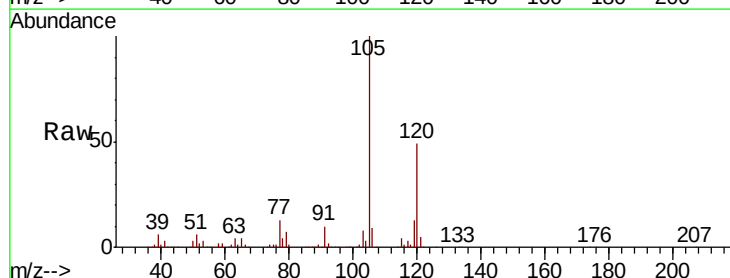
Acq: 10 Aug 2018 23:13

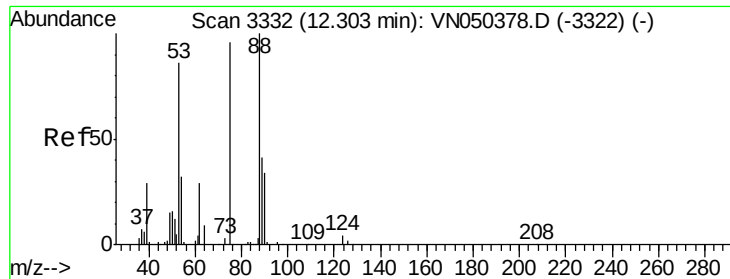
Tgt Ion: 105 Resp: 513824

Ion Ratio Lower Upper

105 100

120 49.4 24.4 73.2





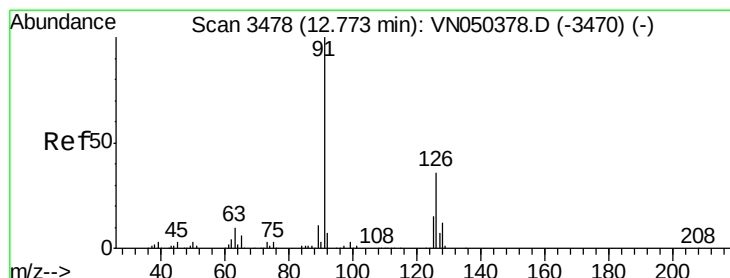
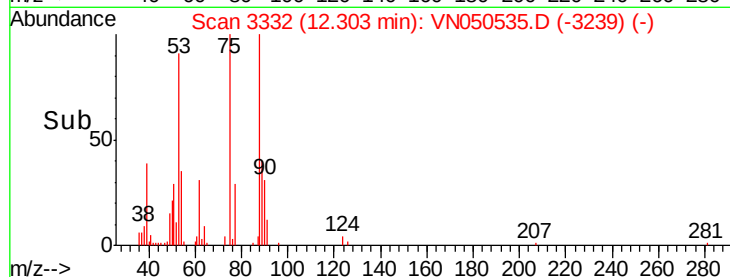
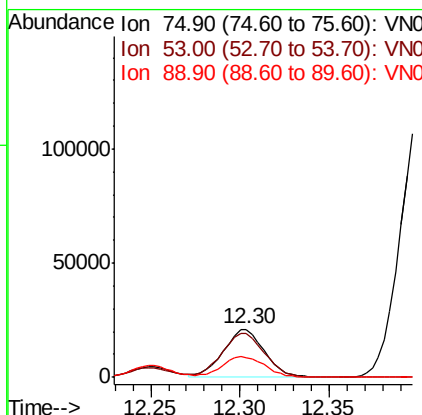
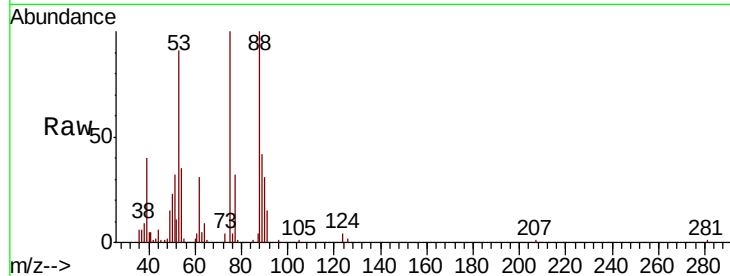
#81
trans-1,4-Dichloro-2-butene
Concen: 16.40 ug/l
RT: 12.30 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	95.6	73.5	110.3
89	44.9	36.0	54.0

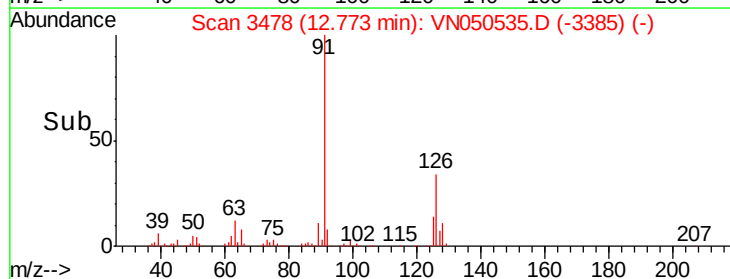
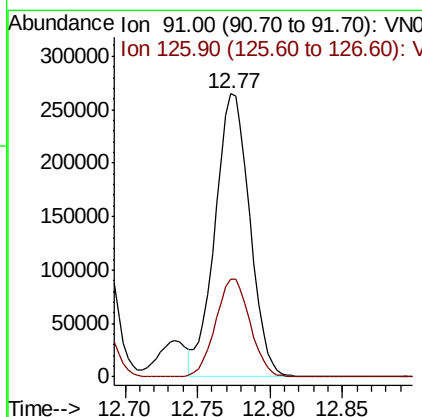
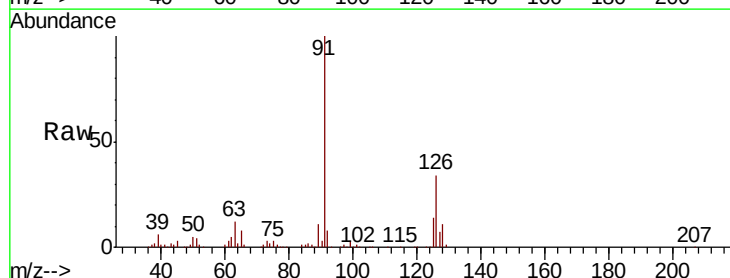
Manual Integrations
APPROVED

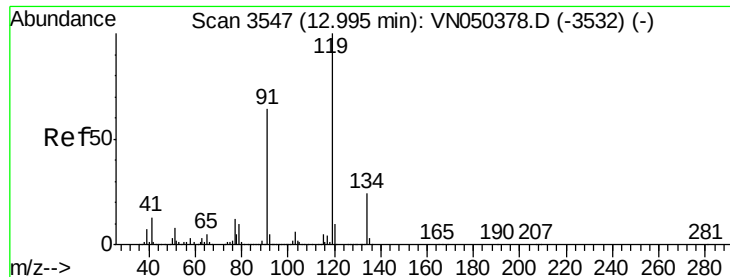
MMDadoda
8/13/2018 11:05:56 AM



#82
4-Chlorotoluene
Concen: 20.92 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.0	51.0





#83

tert-Butylbenzene

Concen: 20.17 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

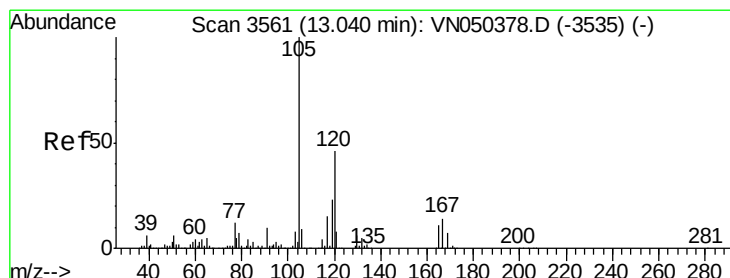
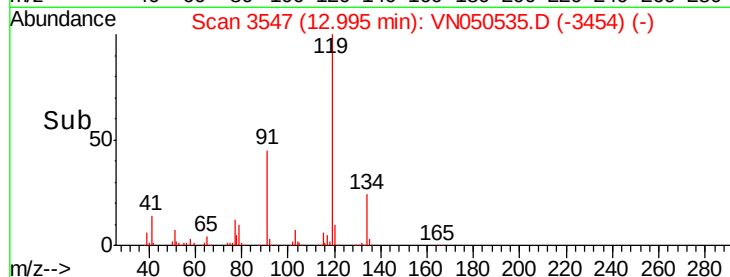
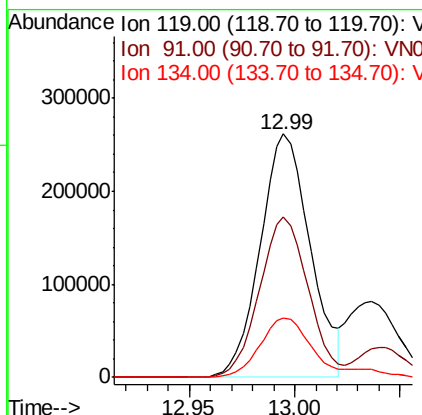
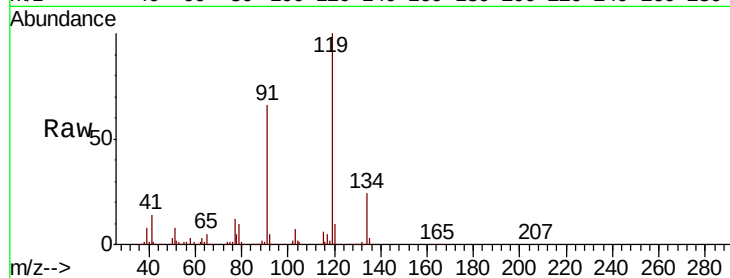
ClientSampled :

VN0810WBSD02

Tot Ion:	119	Resp:	432148
Ion Ratio	Lower	Upper	
119	100		
91	64.1	32.1	96.3
134	24.6	13.2	39.5

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



#84

1,2,4-Trimethylbenzene

Concen: 21.11 ug/l

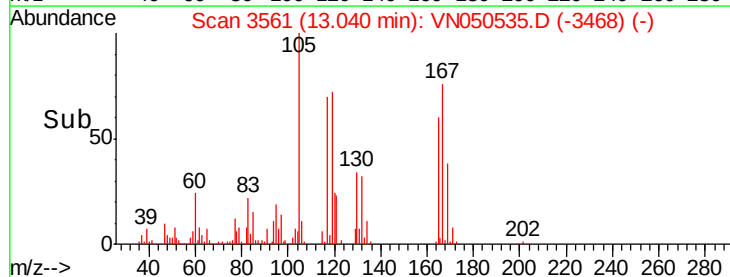
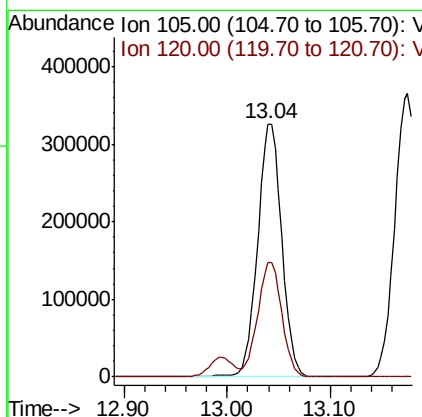
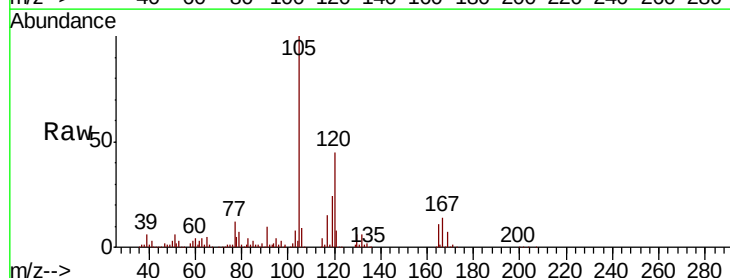
RT: 13.04 min Scan# 3561

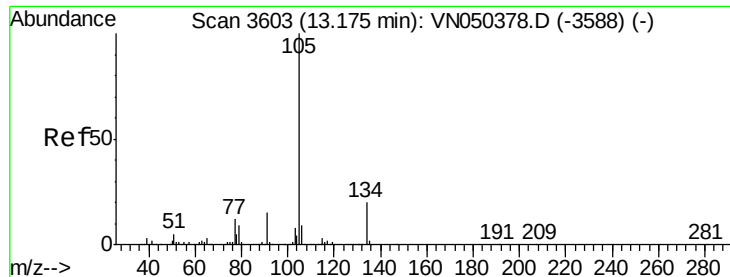
Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Tgt Ion:	105	Resp:	525122
Ion Ratio	Lower	Upper	
105	100		
120	45.7	22.9	68.7





#85

sec-Butylbenzene

Concen: 20.04 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

Instrument :

MSVOA_N

ClientSampleId :

VN0810WBSD02

Tot Ion:105 Resp: 572176

Ion Ratio Lower Upper

105 100

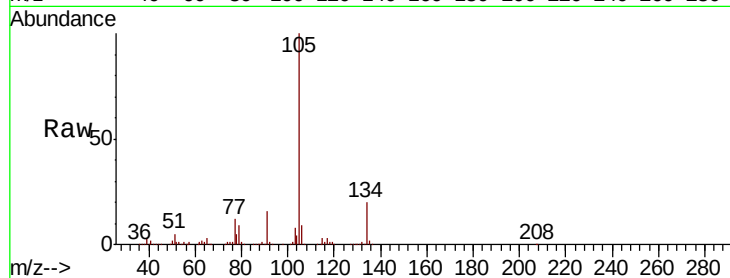
134 20.3 10.1 30.1

Manual Integrations

APPROVED

MMDadoda

8/13/2018 11:05:56 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

400000

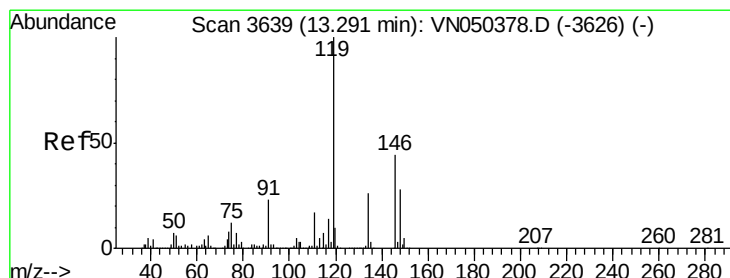
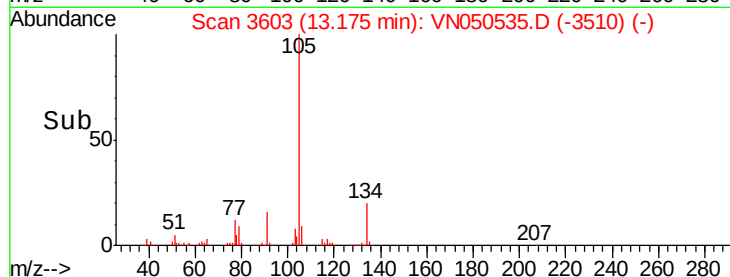
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.99 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050535.D

Acq: 10 Aug 2018 23:13

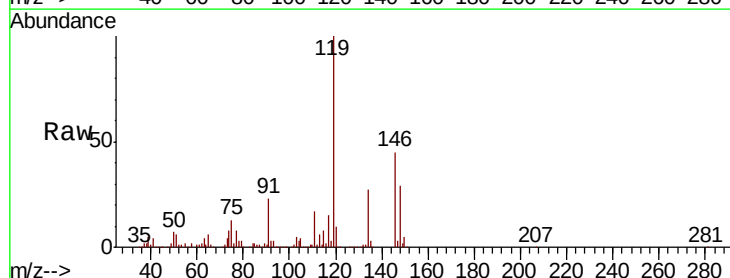
Tgt Ion:119 Resp: 488977

Ion Ratio Lower Upper

119 100

134 27.1 13.3 39.8

91 22.7 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

400000

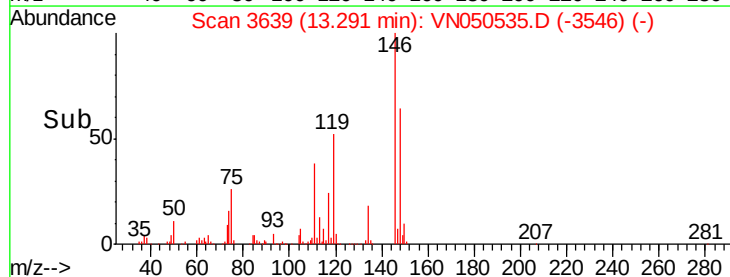
300000

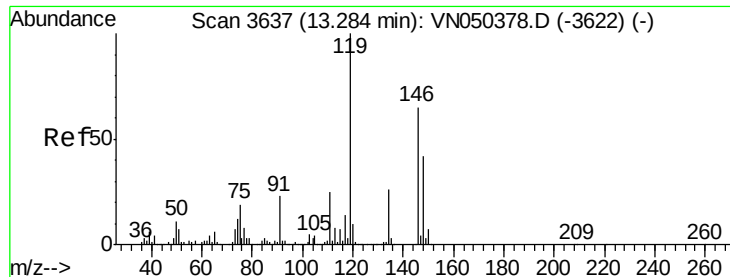
200000

100000

0

Time-->





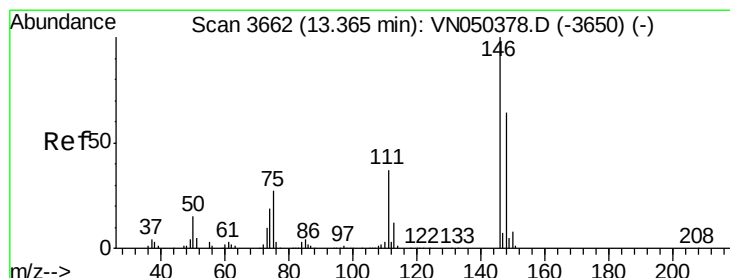
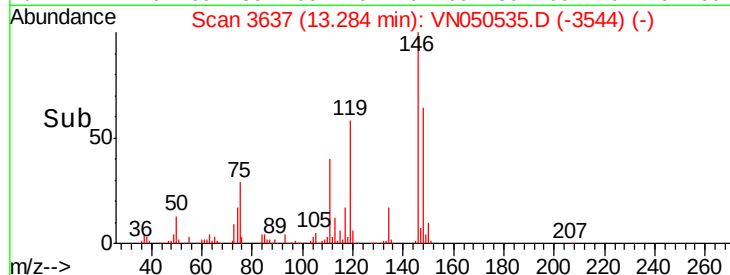
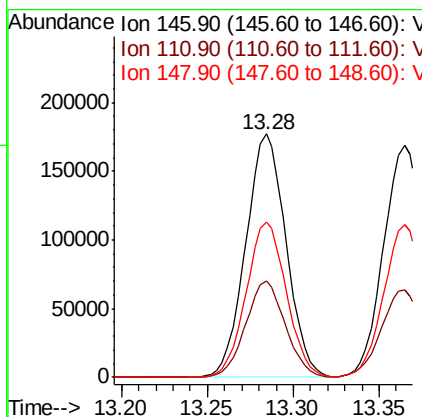
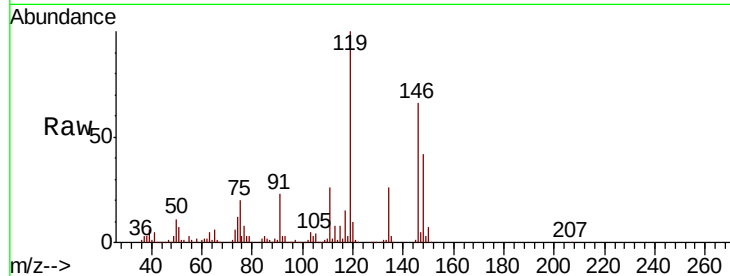
#87
 1,3-Dichlorobenzene
 Concen: 19.94 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	287829		
111	39.0	18.8	56.4	
148	63.6	31.9	95.9	

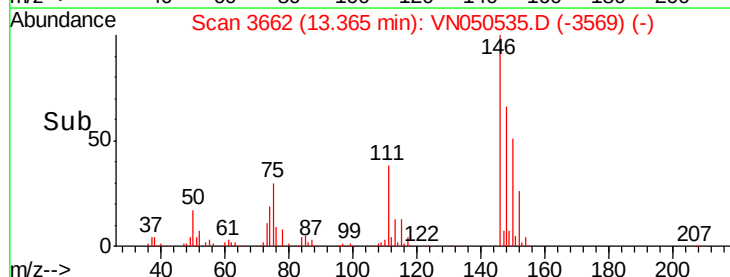
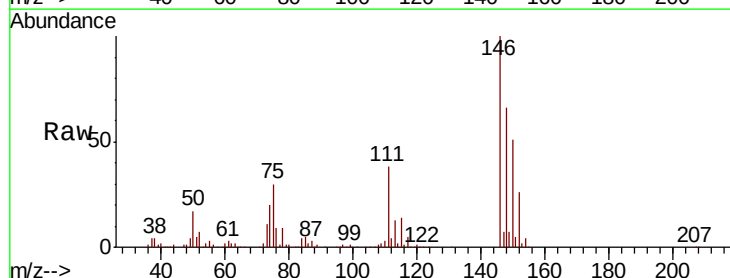
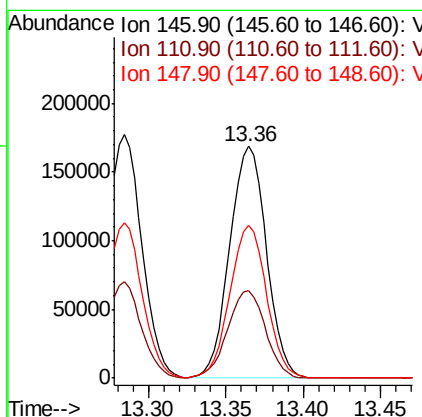
Manual Integrations
 APPROVED

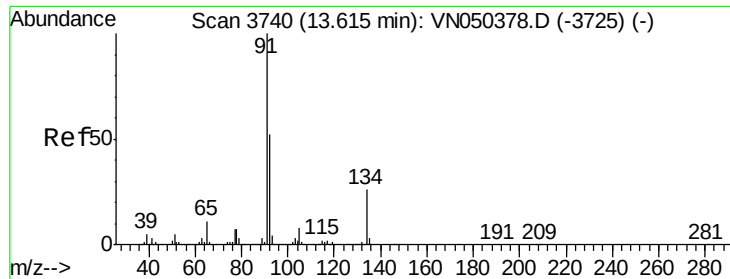
MMDadoda
 8/13/2018 11:05:56 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.30 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	278105		
111	39.1	18.3	54.9	
148	65.5	31.9	95.9	





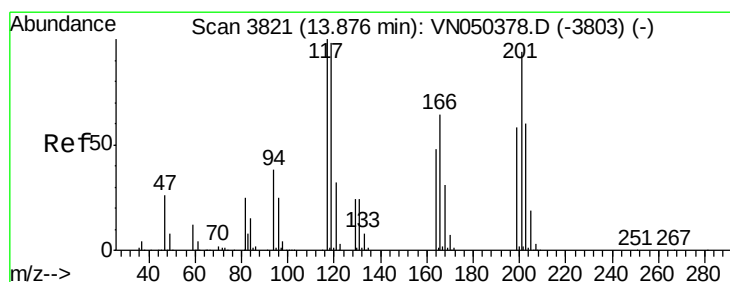
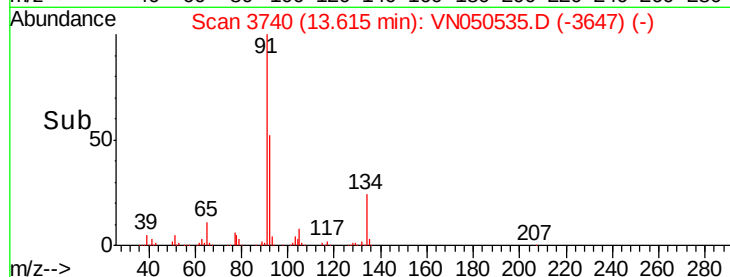
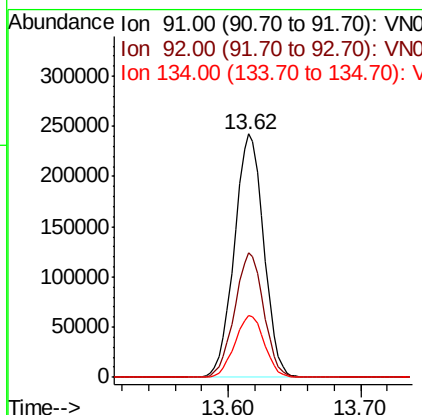
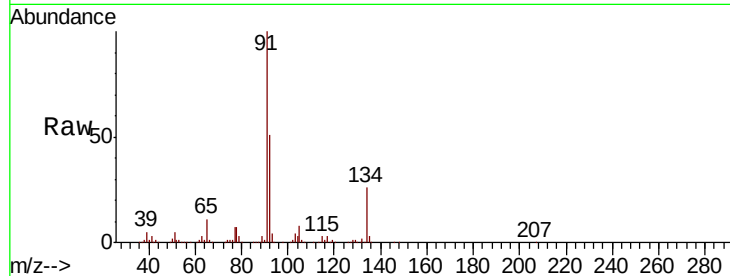
#89
n-Butylbenzene
Concen: 17.91 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.6	25.8	77.4
134	25.6	12.8	38.4

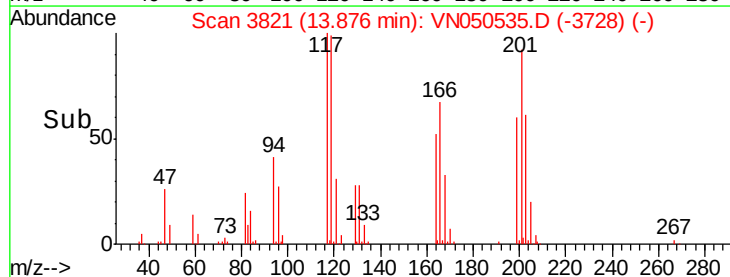
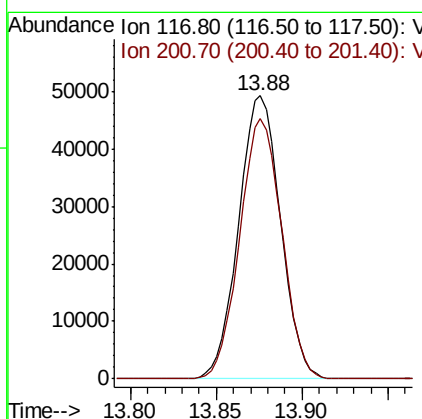
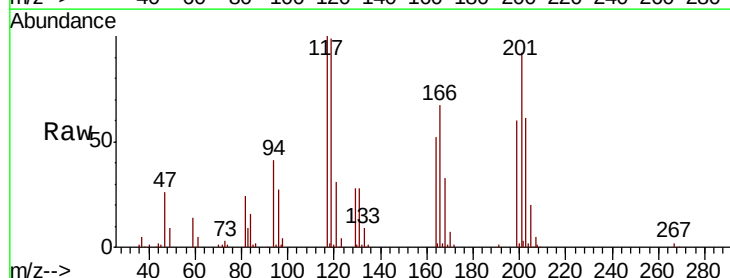
Manual Integrations
APPROVED

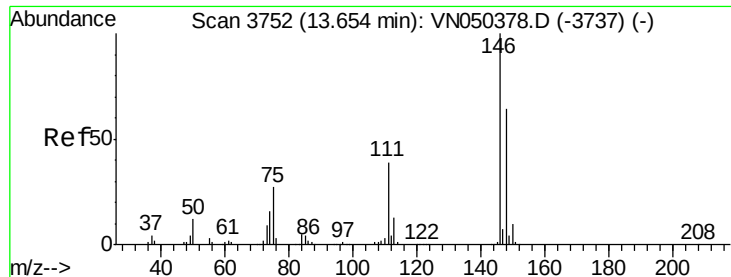
MMDadoda
8/13/2018 11:05:56 AM



#90
Hexachloroethane
Concen: 19.15 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.9	45.6	136.8





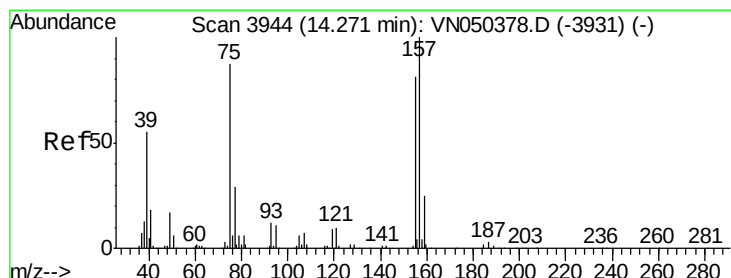
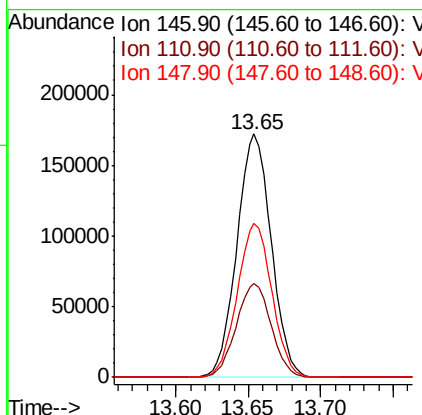
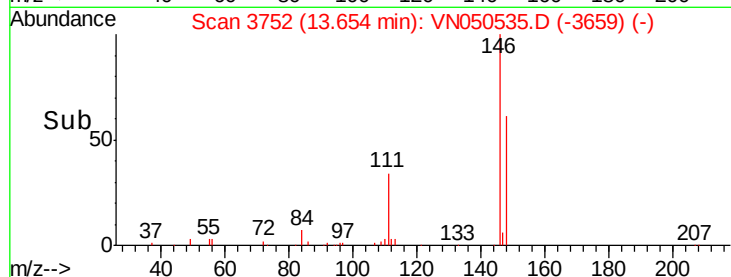
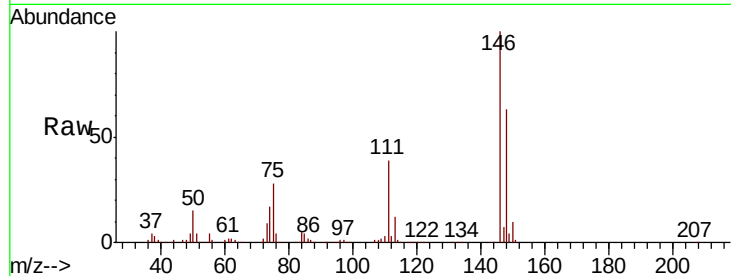
#91
 1,2-Dichlorobenzene
 Concen: 19.61 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0810WBSD02

Tot Ion:	146	Resp:	283651
Ion Ratio	Lower	Upper	
146	100		
111	39.2	19.6	58.7
148	63.5	32.1	96.3

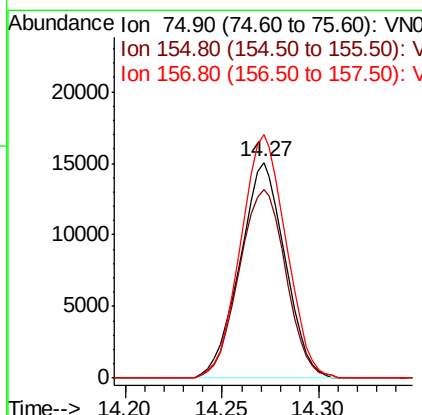
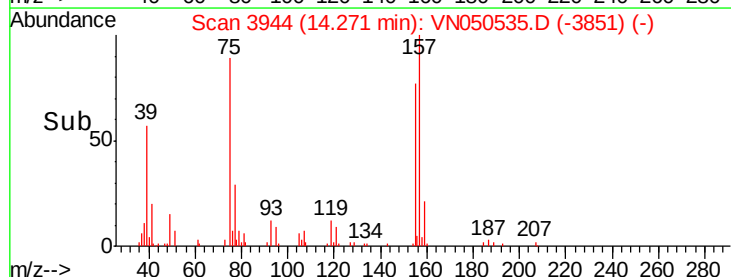
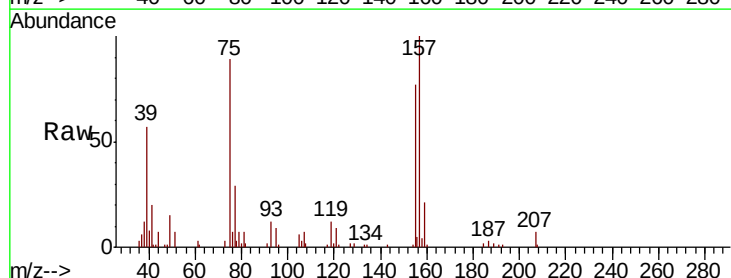
Manual Integrations
 APPROVED

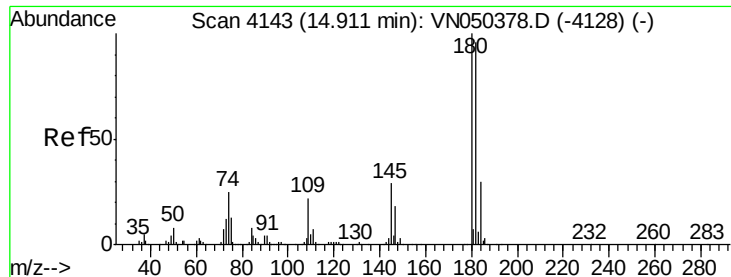
MMDadoda
 8/13/2018 11:05:56 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.53 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Tgt Ion:	75	Resp:	24487
Ion Ratio	Lower	Upper	
75	100		
155	90.6	44.8	134.4
157	114.0	57.2	171.6





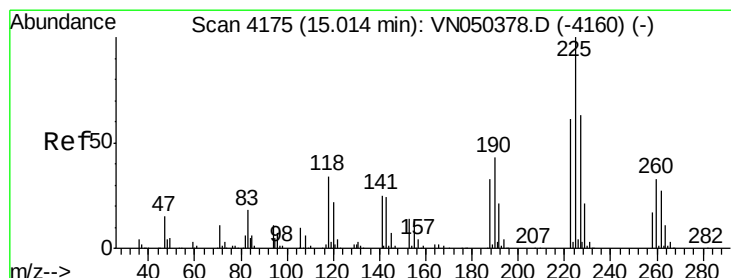
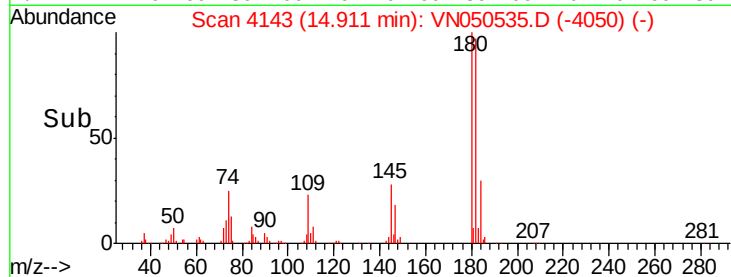
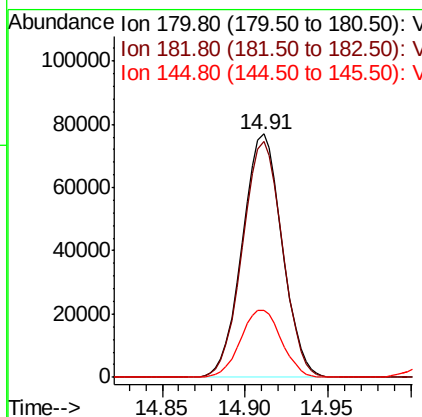
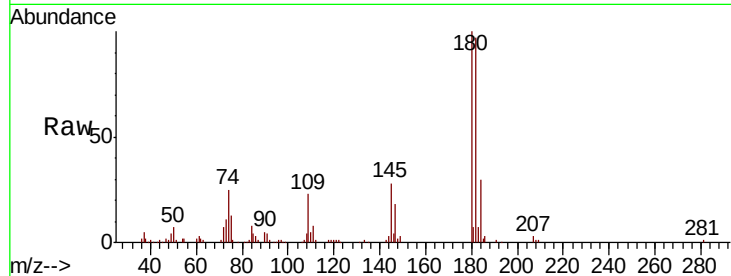
#93
 1,2,4-Trichlorobenzene
 Concen: 17.44 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0810WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.2	46.7	140.1	
145	28.3	13.8	41.4	

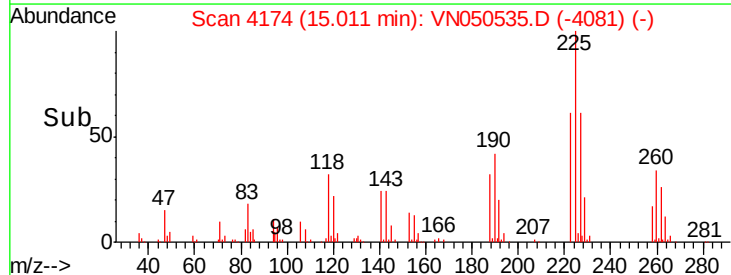
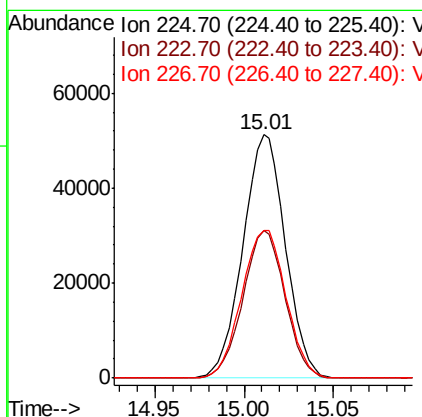
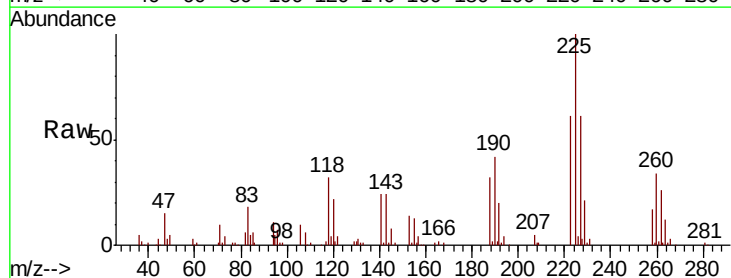
Manual Integrations
 APPROVED

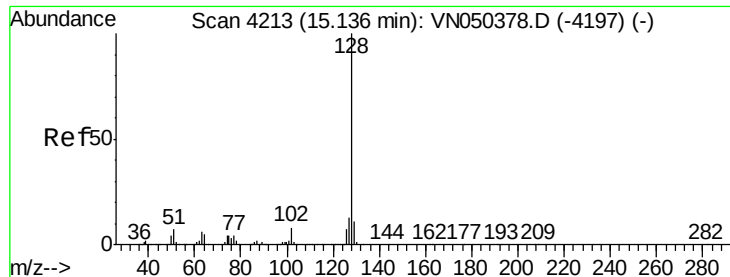
MMDadoda
 8/13/2018 11:05:56 AM



#94
 Hexachlorobutadiene
 Concen: 20.25 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050535.D
 Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	59.8	31.4	94.2	
227	63.2	32.1	96.5	





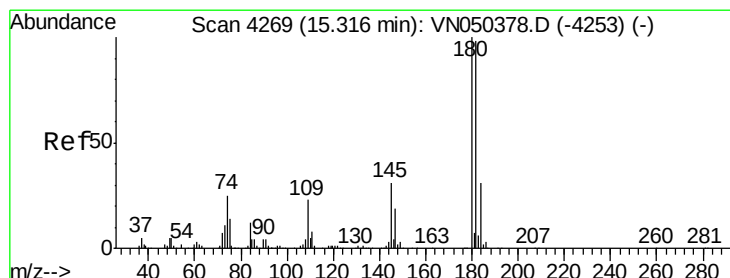
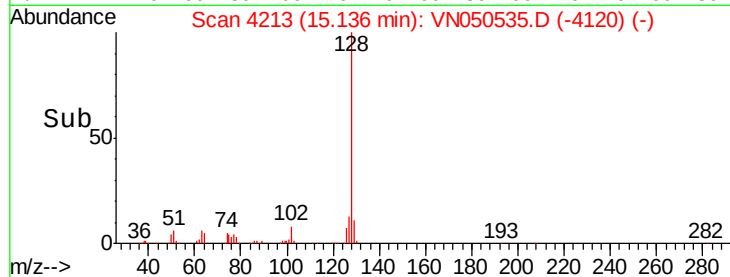
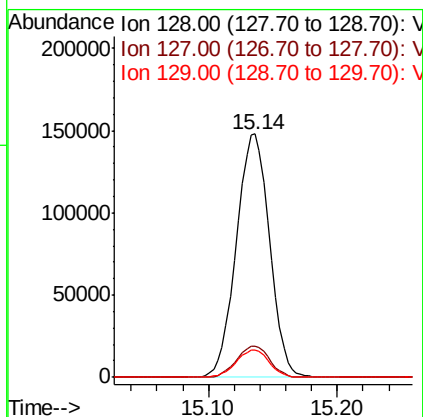
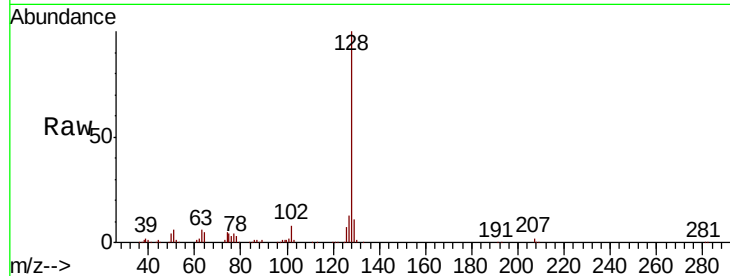
#95
Naphthalene
Concen: 16.22 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
128	100	264931		
127	13.0		10.4	15.6
129	11.2		8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/13/2018 11:05:56 AM



#96
1,2,3-Trichlorobenzene
Concen: 17.34 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050535.D
Acq: 10 Aug 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	129164		
182	94.2		48.1	144.4
145	29.6		15.3	45.9

