

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
 Data File : VN052213.D
 Acq On : 8 Nov 2018 9:49
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 11:48:51 AM

Quant Time: Nov 08 10:10:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	365786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	610879	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	557310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	266954	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	219608	50.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.26%	
35) Dibromofluoromethane	7.59	113	196239	51.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.48%	
50) Toluene-d8	10.09	98	763335	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	
62) 4-Bromofluorobenzene	12.40	95	264856	55.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	154395	48.405	ug/l	96
3) Chloromethane	2.06	50	204789	47.568	ug/l	99
4) Vinyl Chloride	2.19	62	205502	49.838	ug/l	96
5) Bromomethane	2.57	94	145982	47.356	ug/l	93
6) Chloroethane	2.71	64	125874	47.743	ug/l	94
7) Trichlorofluoromethane	3.02	101	298290	49.801	ug/l	98
8) Diethyl Ether	3.41	74	103818	49.613	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	186980	52.240	ug/l	99
10) Methyl Iodide	3.96	142	236108	46.722	ug/l	98
11) Tert butyl alcohol	4.77	59	56311	298.643	ug/l #	91
12) 1,1-Dichloroethene	3.74	96	166505	49.412	ug/l	96
13) Acrolein	3.61	56	31444	176.576	ug/l	92
14) Allyl chloride	4.33	41	298617	53.096	ug/l	98
15) Acrylonitrile	4.99	53	329688	267.081	ug/l	99
16) Acetone	3.82	43	251749	256.181	ug/l	96
17) Carbon Disulfide	4.06	76	468053	48.675	ug/l	100
18) Methyl Acetate	4.32	43	158504	50.757	ug/l	97
19) Methyl tert-butyl Ether	5.04	73	486551	52.465	ug/l	100
20) Methylene Chloride	4.55	84	194837	47.717	ug/l	96
21) trans-1,2-Dichloroethene	5.05	96	186951	50.041	ug/l	96
22) Diisopropyl ether	5.95	45	642491	52.076	ug/l	100
23) Vinyl Acetate	5.90	43	2251631	276.101	ug/l	100
24) 1,1-Dichloroethane	5.85	63	355605	50.732	ug/l	98
25) 2-Butanone	6.83	43	407523	267.437	ug/l	100
26) 2,2-Dichloropropane	6.83	77	291185	53.080	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	217643	51.197	ug/l	99
28) Bromochloromethane	7.19	49	173999	52.466	ug/l	99
29) Tetrahydrofuran	7.21	42	256147	271.681	ug/l	99
30) Chloroform	7.37	83	366980	52.540	ug/l	97
31) Cyclohexane	7.66	56	332252	51.430	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	313558	50.959	ug/l	99
36) 1,1-Dichloropropene	7.79	75	277357	51.324	ug/l	99
37) Ethyl Acetate	6.92	43	185608	55.764	ug/l	96
38) Carbon Tetrachloride	7.77	117	281802	52.158	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
 Data File : VN052213.D
 Acq On : 8 Nov 2018 9:49
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 11:48:51 AM

Quant Time: Nov 08 10:10:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	345135	53.926	ug/l	99
40) Benzene	8.04	78	812507	51.145	ug/l	100
41) Methacrylonitrile	7.18	41	94975	50.854	ug/l	98
42) 1,2-Dichloroethane	8.12	62	262095	51.322	ug/l	100
43) Isopropyl Acetate	8.16	43	332483	53.922	ug/l #	90
44) Trichloroethene	8.83	130	217106	51.619	ug/l	99
45) 1,2-Dichloropropane	9.12	63	218900	52.030	ug/l	99
46) Dibromomethane	9.21	93	137889	51.535	ug/l	97
47) Bromodichloromethane	9.40	83	280005	53.660	ug/l	97
48) Methyl methacrylate	9.20	41	166574	56.130	ug/l	97
49) 1,4-Dioxane	9.20	88	30985	1233.772	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	912769	280.203	ug/l	100
52) Toluene	10.16	92	510627	53.303	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	286956	56.057	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	325997	54.422	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	186329	55.167	ug/l	97
56) Ethyl methacrylate	10.43	69	240746	54.684	ug/l	99
57) 1,3-Dichloropropane	10.71	76	314198	52.805	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	674520	284.694	ug/l	99
59) 2-Hexanone	10.75	43	658513	290.396	ug/l	98
60) Dibromochloromethane	10.90	129	212095	55.219	ug/l	100
61) 1,2-Dibromoethane	11.00	107	186969	54.533	ug/l	99
64) Tetrachloroethene	10.63	164	193301	53.537	ug/l	97
65) Chlorobenzene	11.43	112	586792	51.657	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	209150	54.826	ug/l	100
67) Ethyl Benzene	11.51	91	1003734	53.200	ug/l	99
68) m/p-Xylenes	11.62	106	777543	106.806	ug/l	98
69) o-Xylene	11.95	106	373873	52.956	ug/l	99
70) Styrene	11.96	104	608085	54.408	ug/l	100
71) Bromoform	12.13	173	129142	50.727	ug/l #	99
73) Isopropylbenzene	12.25	105	1006146	49.848	ug/l	99
74) N-amyl acetate	12.07	43	316669	52.870	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	226131	51.182	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	170260m	40.527	ug/l	
77) Bromobenzene	12.53	156	236980	49.235	ug/l	97
78) n-propylbenzene	12.59	91	1188381	51.517	ug/l	99
79) 2-Chlorotoluene	12.67	91	670552	49.571	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	827039	50.620	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	65001	55.401	ug/l	98
82) 4-Chlorotoluene	12.77	91	686228	50.473	ug/l	100
83) tert-Butylbenzene	12.99	119	724052	50.189	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	843965	51.893	ug/l	99
85) sec-Butylbenzene	13.17	105	1005941	51.567	ug/l	100
86) p-Isopropyltoluene	13.29	119	871828	53.098	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	446507	52.495	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	437358	51.443	ug/l	99
89) n-Butylbenzene	13.61	91	763702	53.716	ug/l	99
90) Hexachloroethane	13.87	117	150958	54.553	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	416101	52.127	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	33302	57.100	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
Data File : VN052213.D
Acq On : 8 Nov 2018 9:49
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM

Quant Time: Nov 08 10:10:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 05 22:32:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	192366	51.048	ug/l	98
94) Hexachlorobutadiene	15.01	225	99072	52.834	ug/l	98
95) Naphthalene	15.13	128	446254	54.589	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	171448	52.783	ug/l	97

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

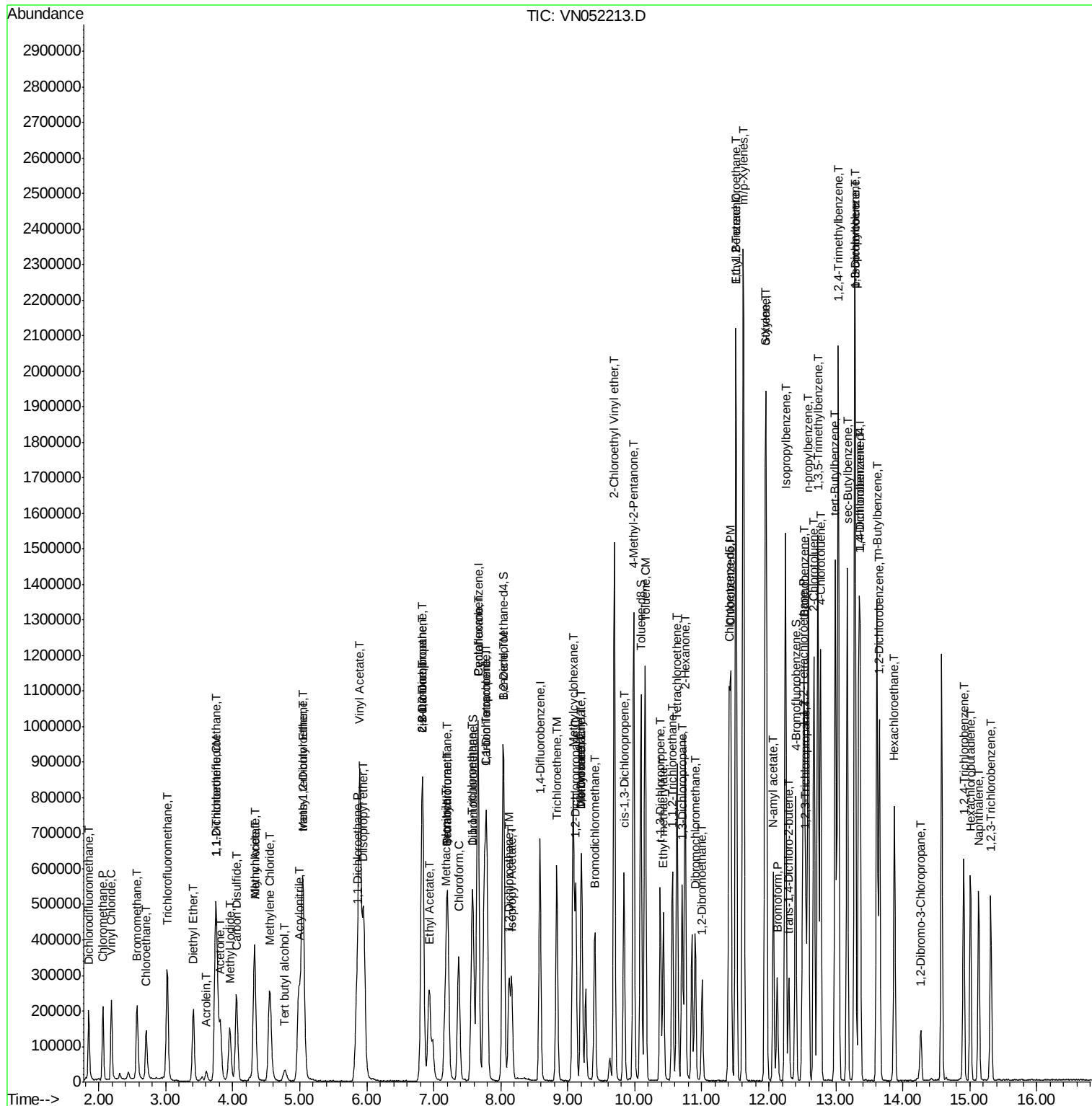
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN110818\
 Data File : VN052213.D
 Acq On : 8 Nov 2018 9:49
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

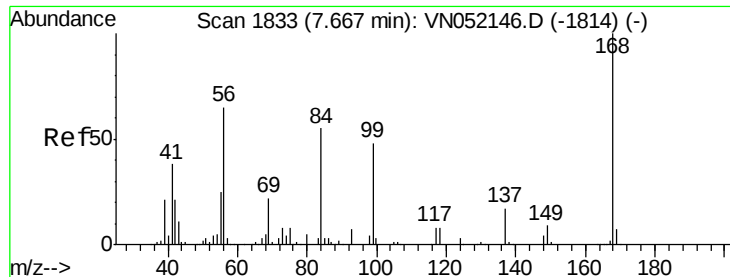
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 11:48:51 AM

Quant Time: Nov 08 10:10:28 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 365786

Ion Ratio Lower Upper

168 100

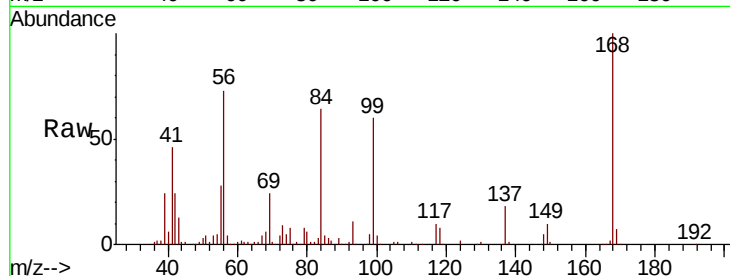
99 60.0 45.4 68.2

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

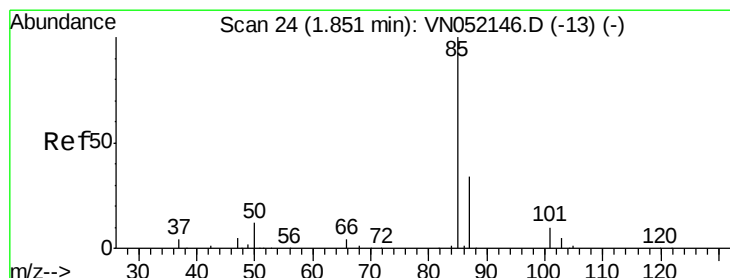
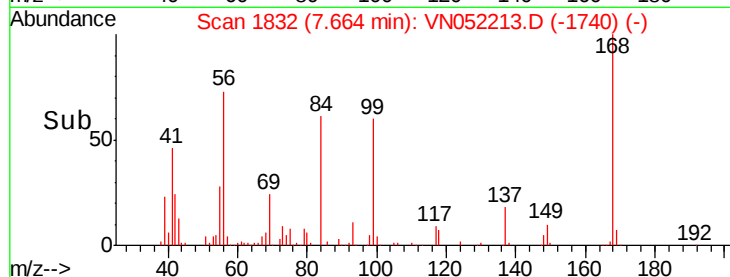
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 48.405 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052213.D

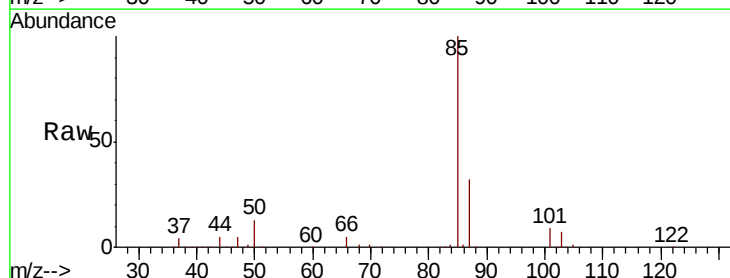
Acq: 8 Nov 2018 9:49

Tgt Ion: 85 Resp: 154395

Ion Ratio Lower Upper

85 100

87 31.8 17.0 51.0



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

120000

100000

80000

60000

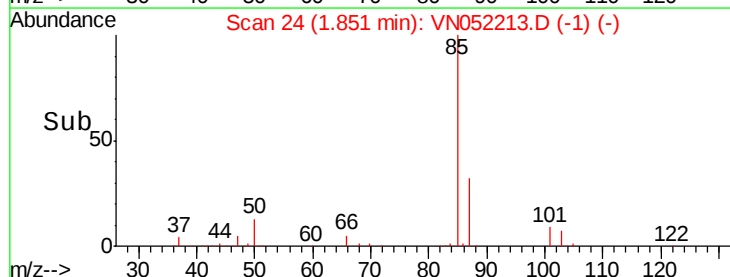
40000

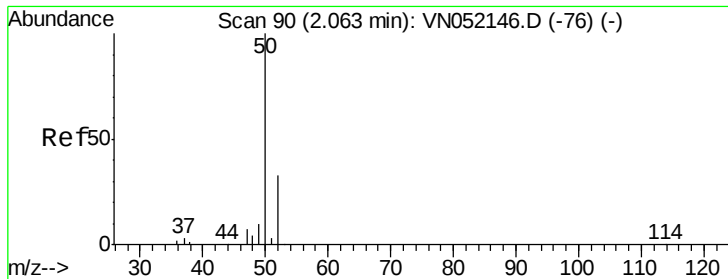
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 47.568 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 204789

Ion Ratio Lower Upper

50 100

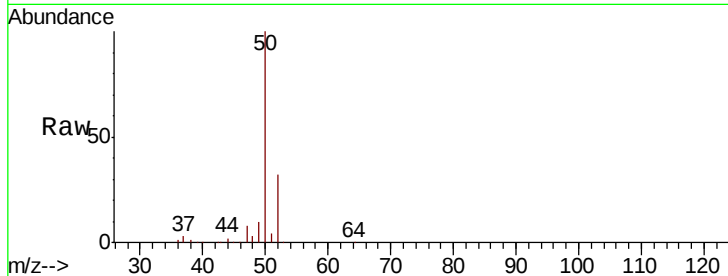
52 32.3 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



Abundance Ion 49.90 (49.60 to 50.60): VN052213.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN052213.D (-1) (-)

2.06

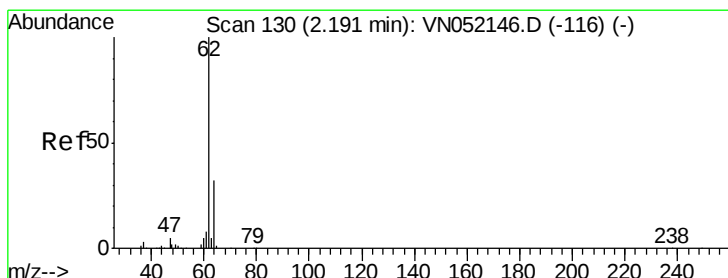
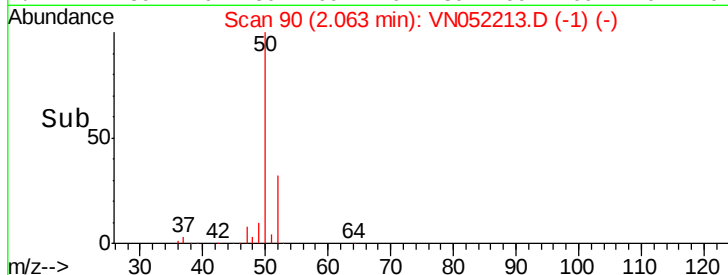
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 49.838 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN052213.D

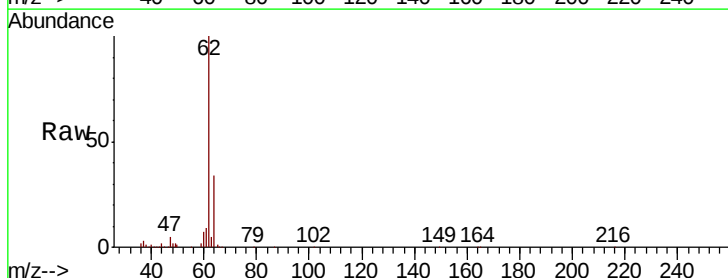
Acq: 8 Nov 2018 9:49

Tgt Ion: 62 Resp: 205502

Ion Ratio Lower Upper

62 100

64 34.2 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VN052213.D (-37) (-)

Ion 63.90 (63.60 to 64.60): VN052213.D (-37) (-)

2.19

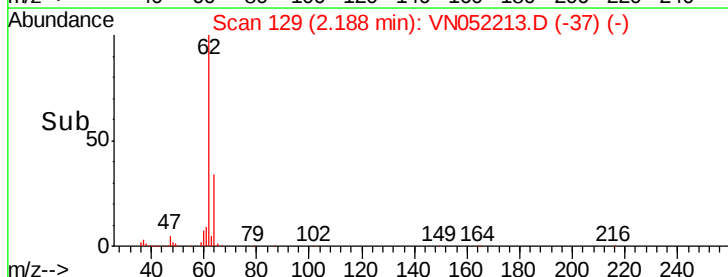
150000

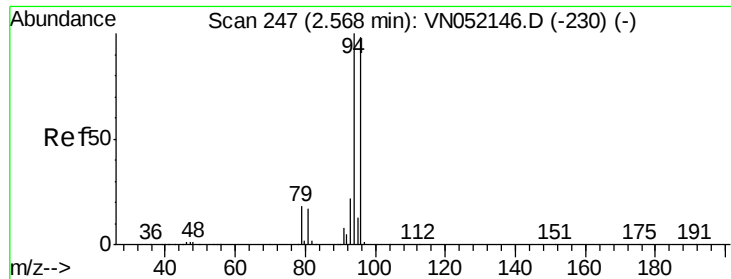
100000

50000

0

Time-->





#5

Bromomethane

Concen: 47.356 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 145982

Ion Ratio Lower Upper

94 100

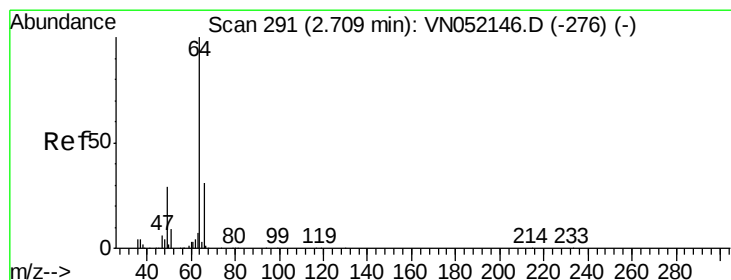
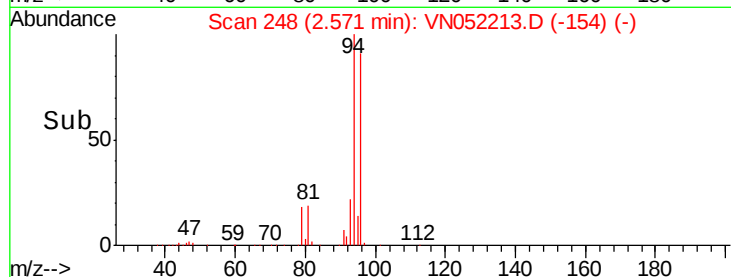
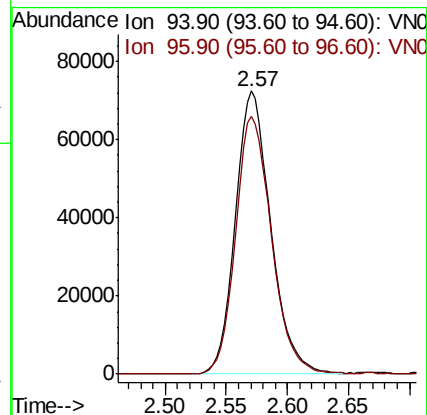
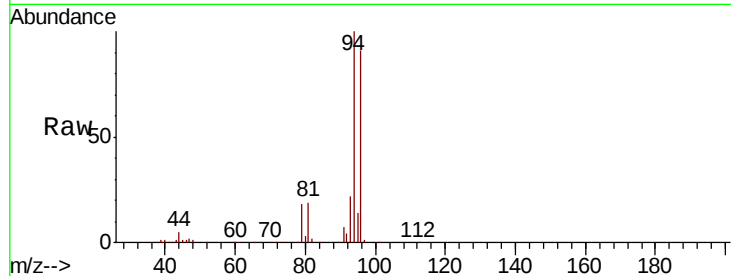
96 90.9 78.3 117.5

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



#6

Chloroethane

Concen: 47.743 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052213.D

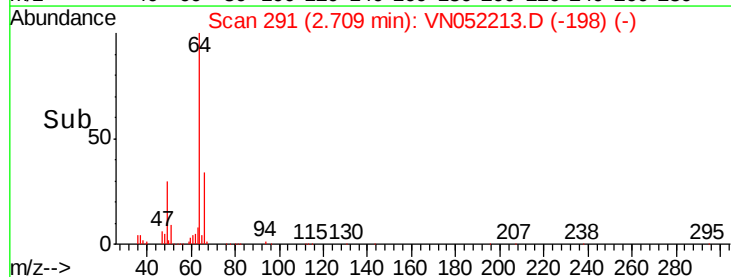
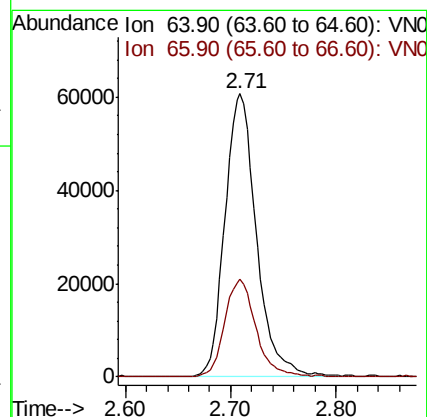
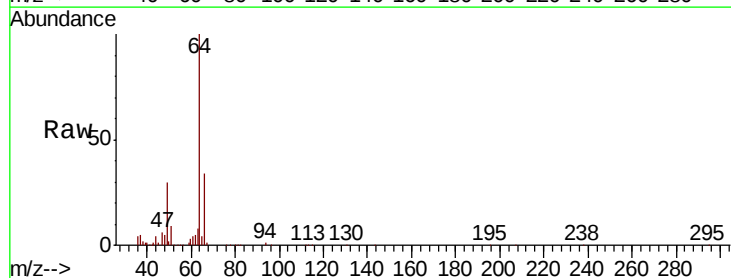
Acq: 8 Nov 2018 9:49

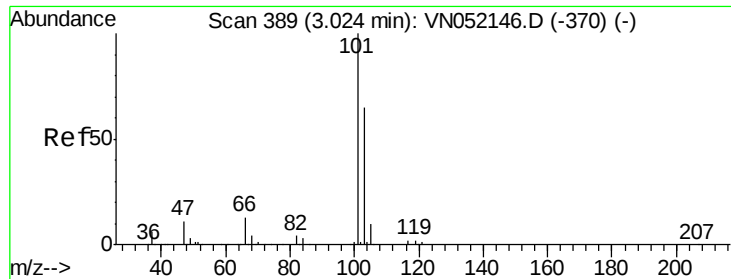
Tgt Ion: 64 Resp: 125874

Ion Ratio Lower Upper

64 100

66 34.4 24.7 37.1





#7

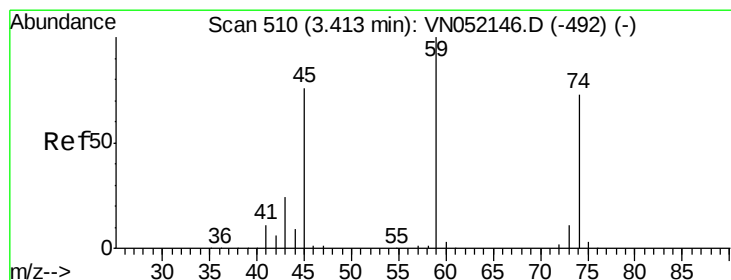
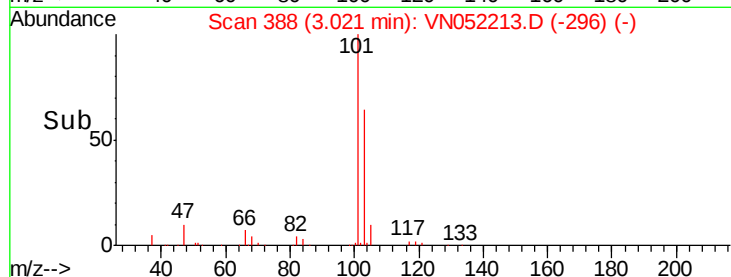
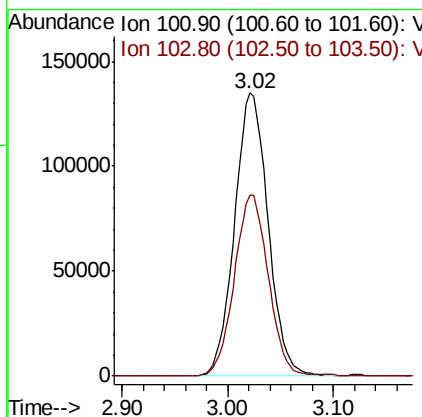
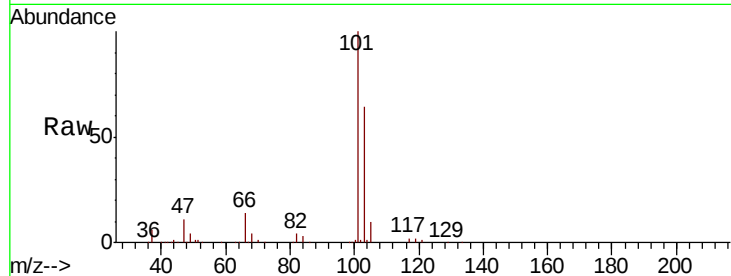
Trichlorofluoromethane
Concen: 49.801 ug/l
RT: 3.02 min Scan# 388
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	298290		
103	63.6	52.2	78.4	

Manual Integrations
APPROVED

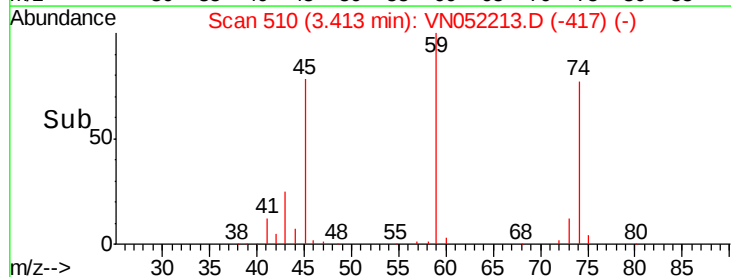
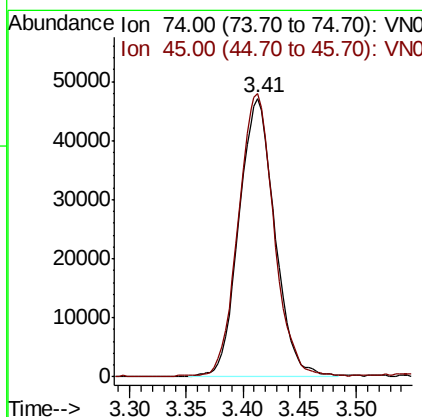
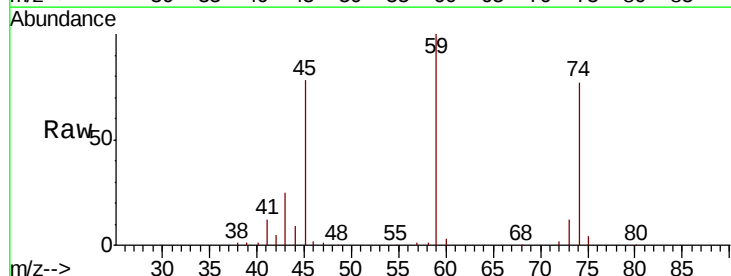
MMDadoda
11/9/2018 11:48:51 AM

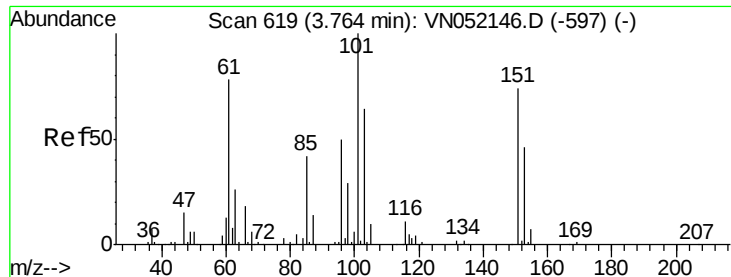


#8

Diethyl Ether
Concen: 49.613 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	103818		
45	101.9	49.1	147.3	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.240 ug/l

RT: 3.76 min Scan# 618

Delta R.T. -0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

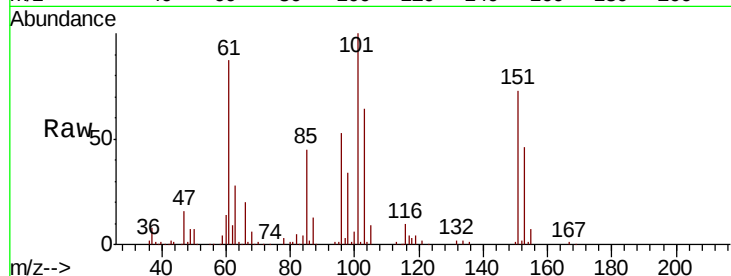
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	186980
Ion Ratio	Lower	Upper	
101	100		
85	44.7	36.1	54.1
151	73.6	59.7	89.5

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM

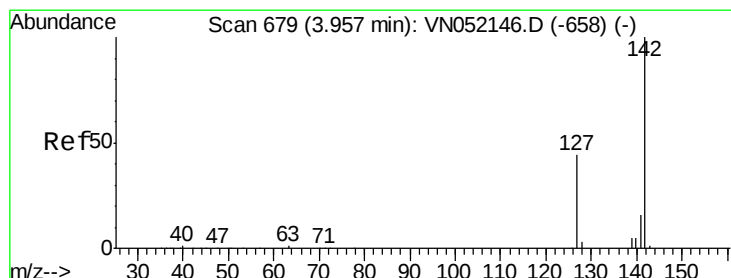
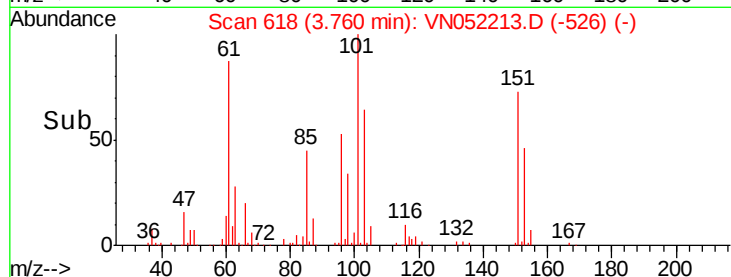
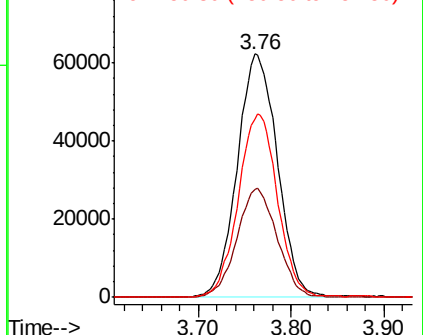


Abundance

Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 46.722 ug/l

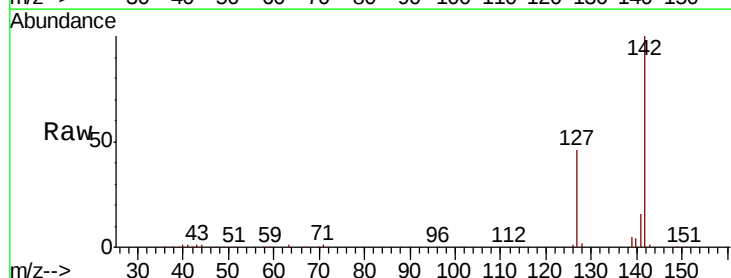
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Tgt Ion:	142	Resp:	236108
Ion Ratio	Lower	Upper	
142	100		
127	46.6	36.0	54.0
141	14.9	11.8	17.6

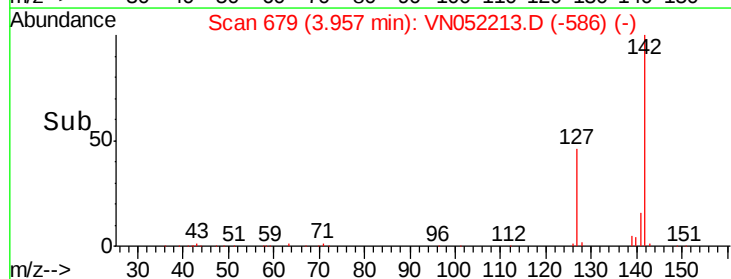
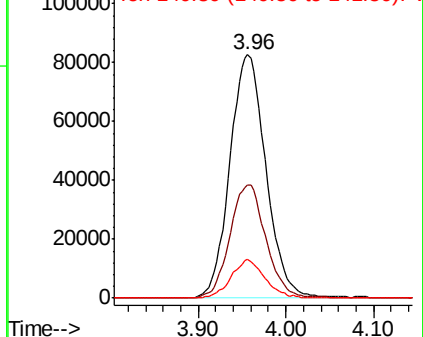


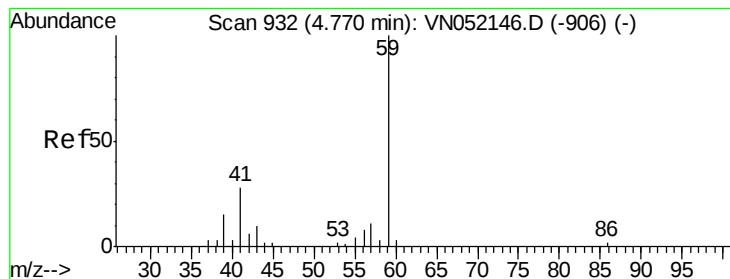
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

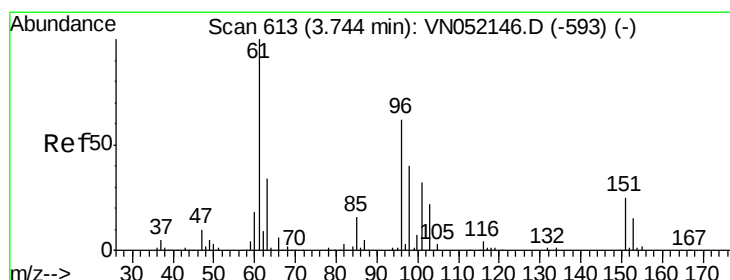
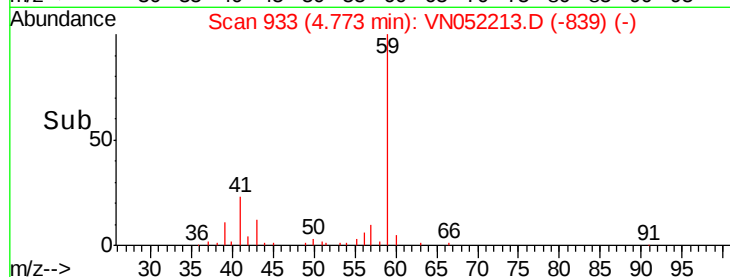
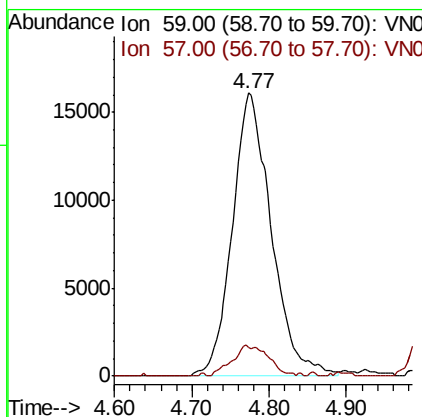
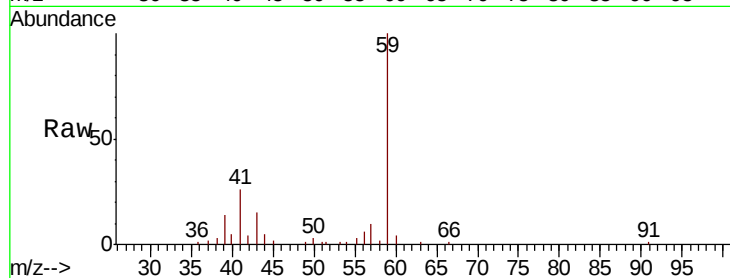
Tert butyl alcohol
 Concen: 298.643 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	5.7	8.5#

Manual Integrations
 APPROVED

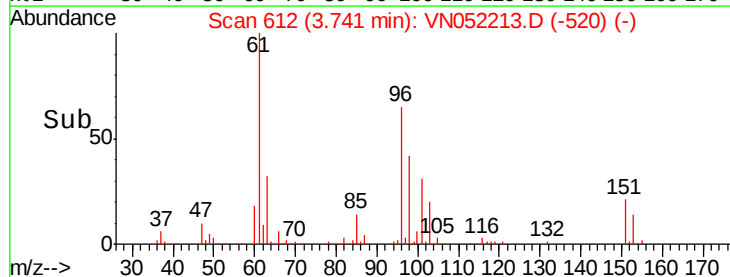
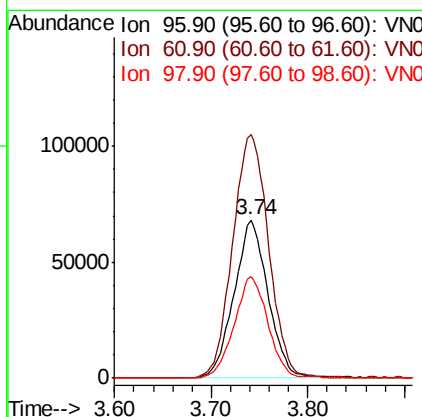
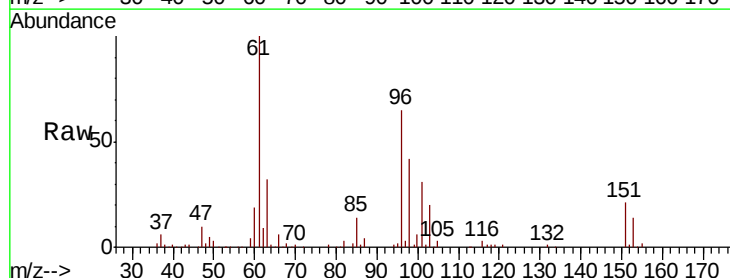
MMDadoda
 11/9/2018 11:48:51 AM

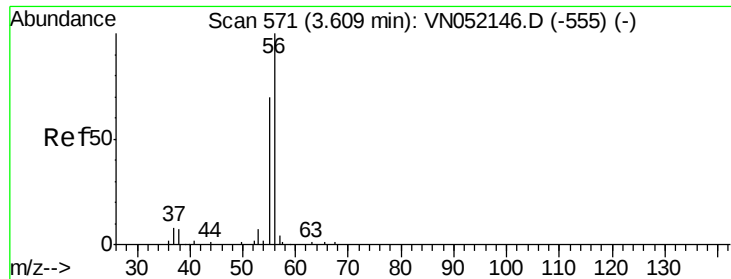


#12

1,1-Dichloroethene
 Concen: 49.412 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.7	128.4	192.6
98	64.2	50.9	76.3





#13

Acrolein

Concen: 176.576 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 56 Resp: 31444

Ion Ratio Lower Upper

56 100

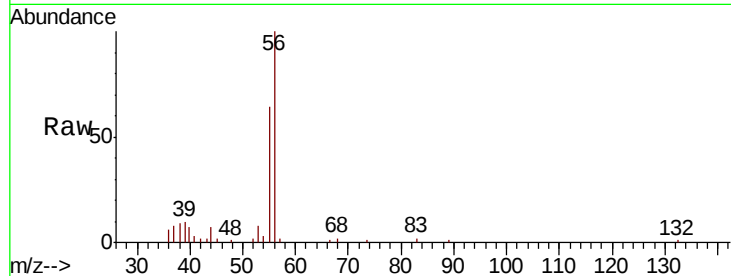
55 64.2 56.6 84.8

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



Abundance Ion 56.00 (55.70 to 56.70): VN052213.D (-478) (-)

Ion 55.00 (54.70 to 55.70): VN052213.D (-478) (-)

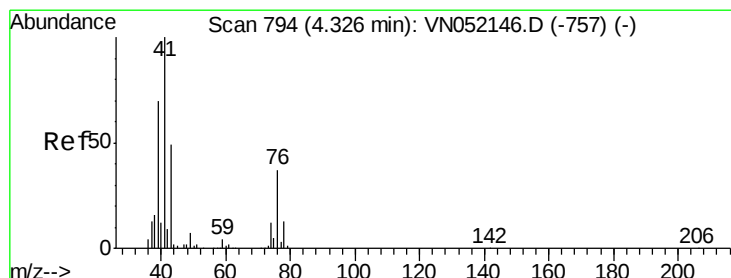
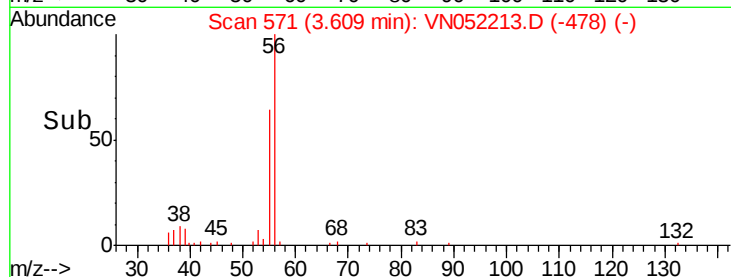
3.61

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 53.096 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

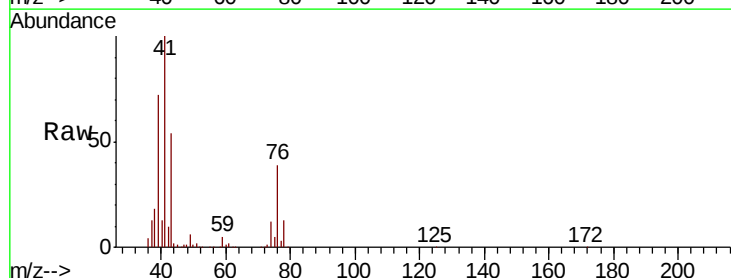
Tgt Ion: 41 Resp: 298617

Ion Ratio Lower Upper

41 100

39 71.2 55.3 82.9

76 35.0 27.8 41.8



Abundance Ion 41.00 (40.70 to 41.70): VN052213.D (-701) (-)

Ion 39.00 (38.70 to 39.70): VN052213.D (-701) (-)

Ion 75.90 (75.60 to 76.60): VN052213.D (-701) (-)

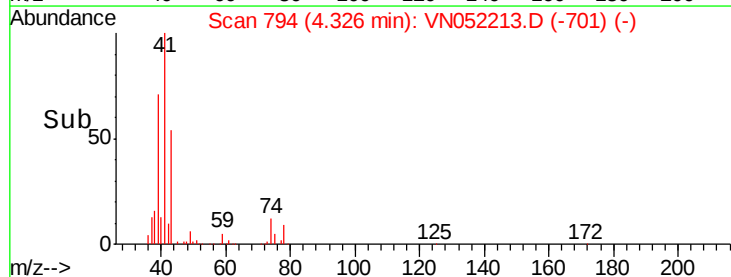
4.33

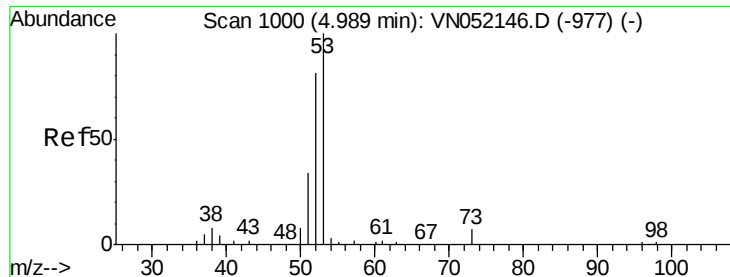
100000

50000

0

Time-->





#15

Acrylonitrile

Concen: 267.081 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

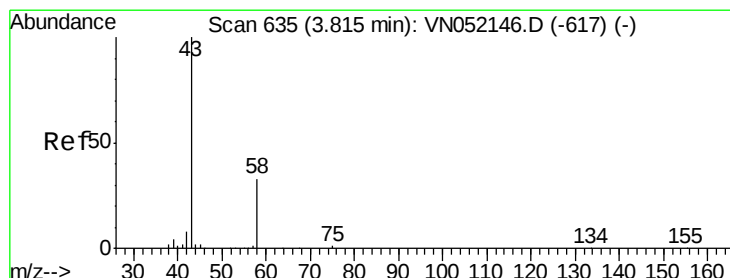
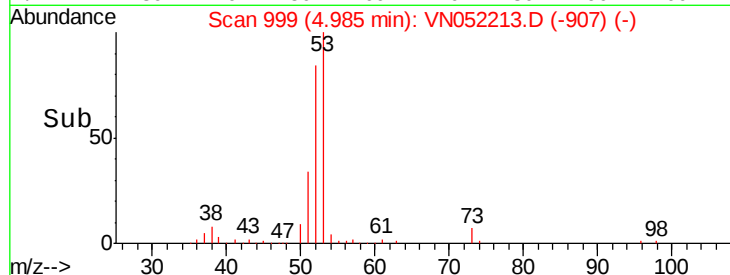
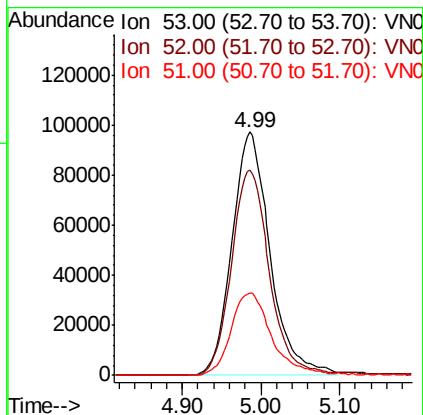
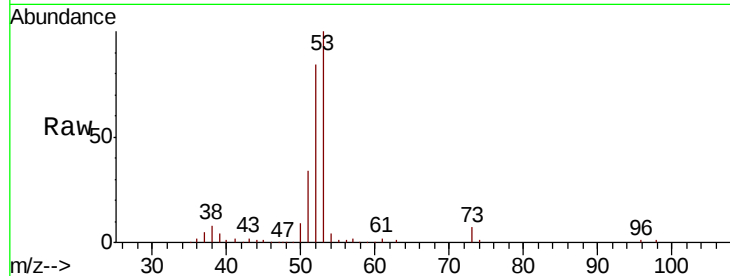
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	329688
Ion	Ratio	Lower	Upper
53	100		
52	83.8	66.5	99.7
51	36.0	29.2	43.8

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM



#16

Acetone

Concen: 256.181 ug/l

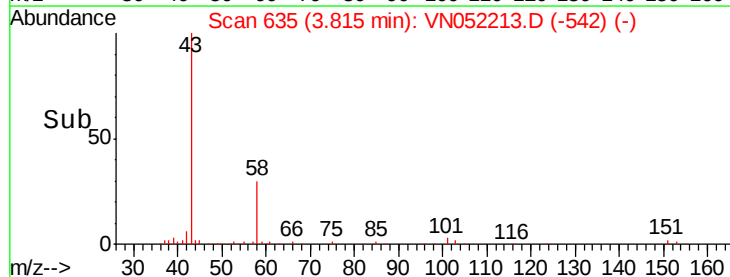
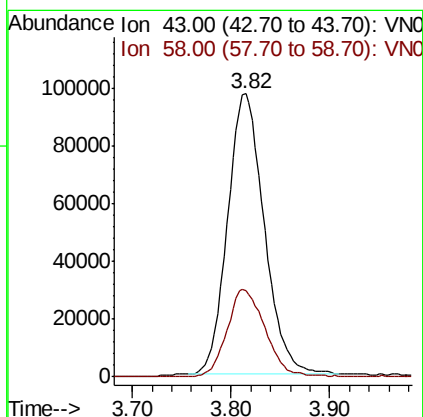
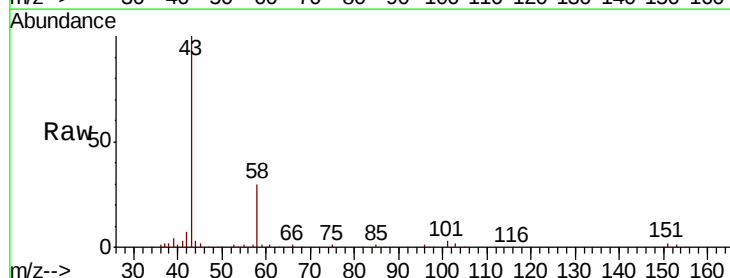
RT: 3.82 min Scan# 635

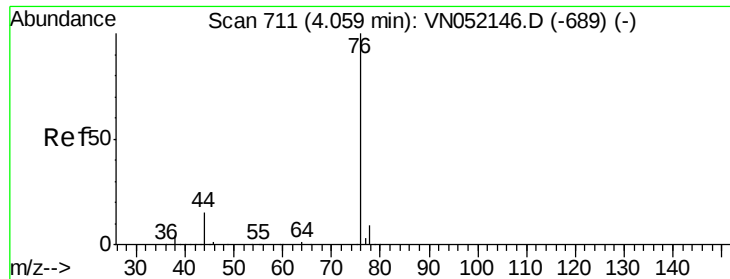
Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Tgt Ion:	43	Resp:	251749
Ion	Ratio	Lower	Upper
43	100		
58	30.4	26.2	39.2





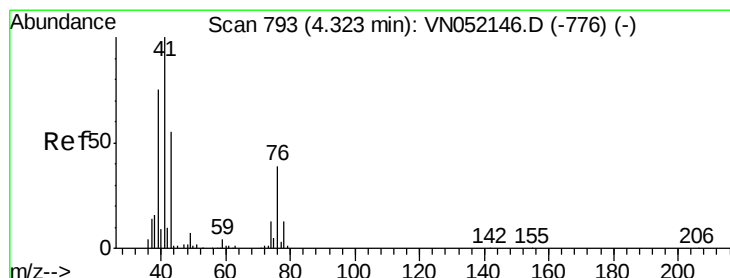
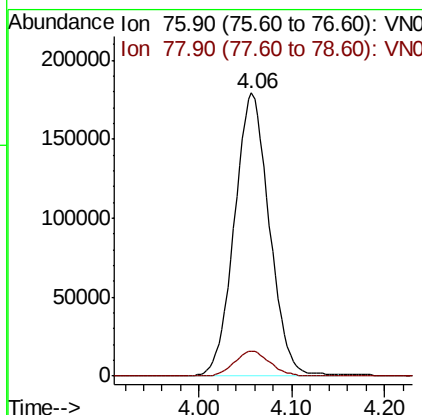
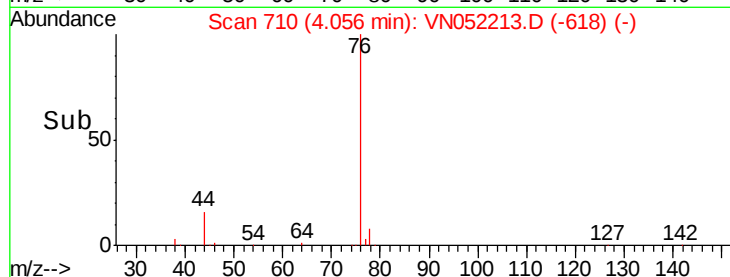
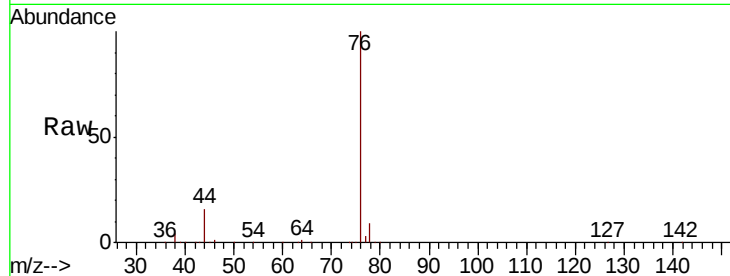
#17
Carbon Disulfide
Concen: 48.675 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.6

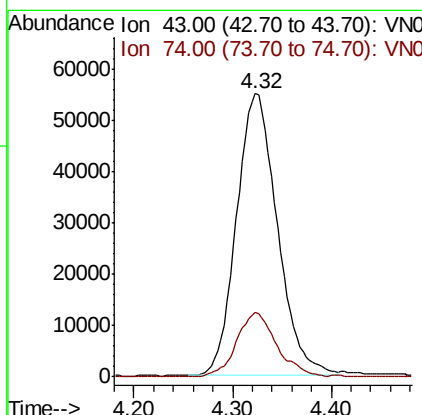
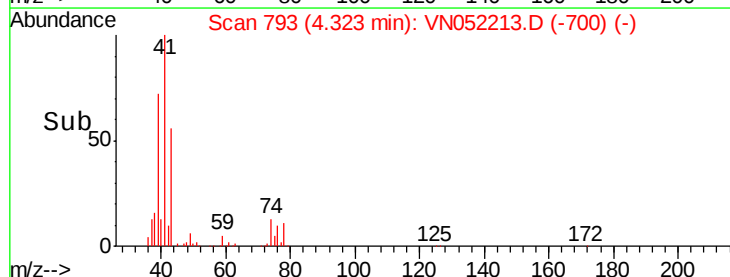
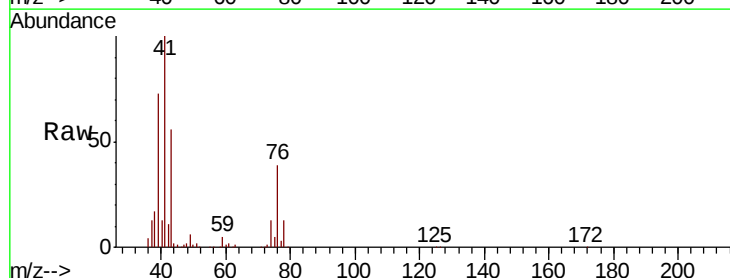
Manual Integrations
APPROVED

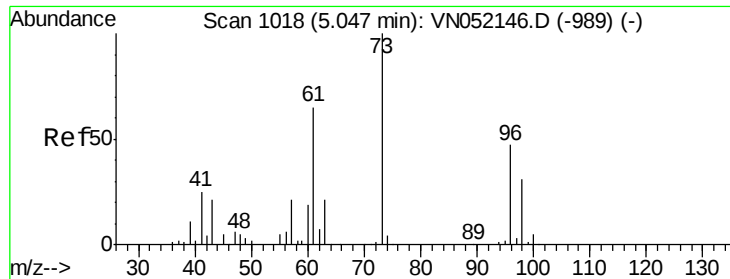
MMDadoda
11/9/2018 11:48:51 AM



#18
Methyl Acetate
Concen: 50.757 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.4	19.3	28.9





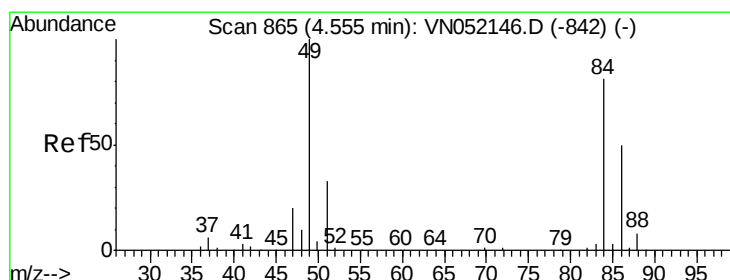
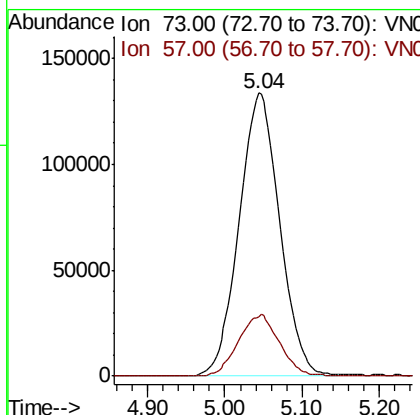
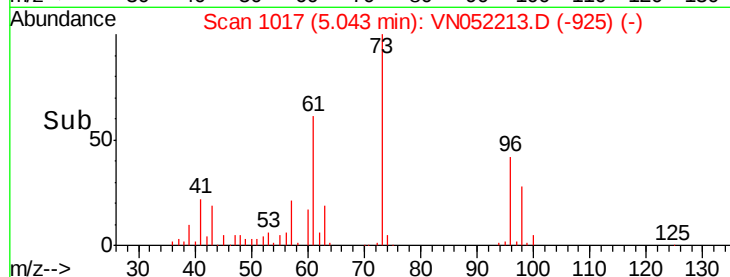
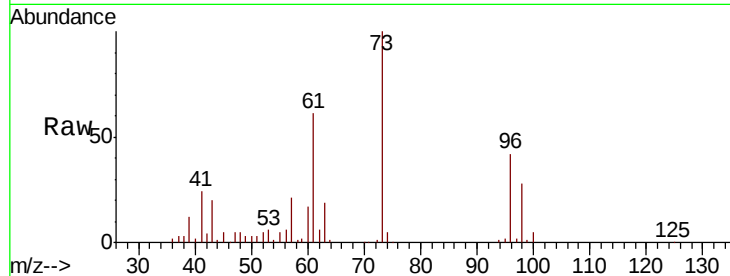
#19
Methvl tert-butvl Ether
Concen: 52.465 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 486551
Ion Ratio Lower Upper
73 100
57 21.2 16.8 25.2

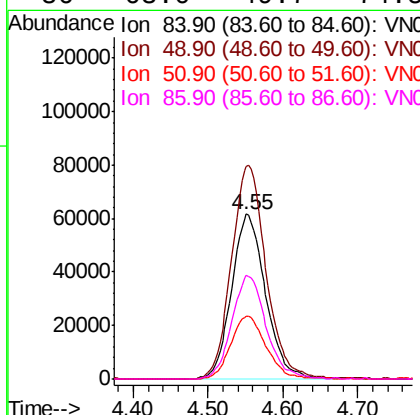
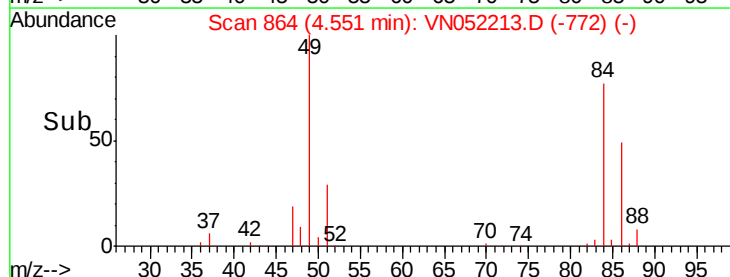
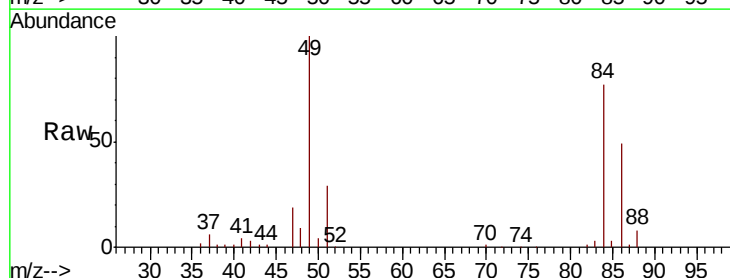
Manual Integrations
APPROVED

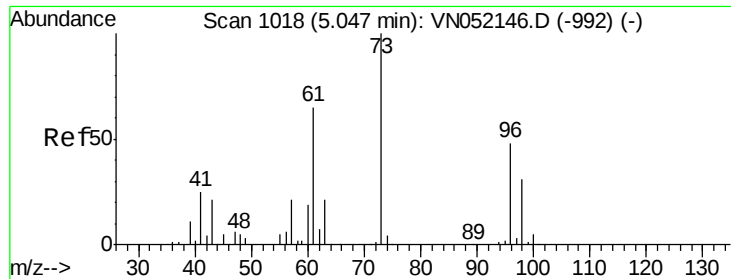
MMDadoda
11/9/2018 11:48:51 AM



#20
Methylene Chloride
Concen: 47.717 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion: 84 Resp: 194837
Ion Ratio Lower Upper
84 100
49 129.2 98.4 147.6
51 38.0 32.5 48.7
86 63.0 49.7 74.5





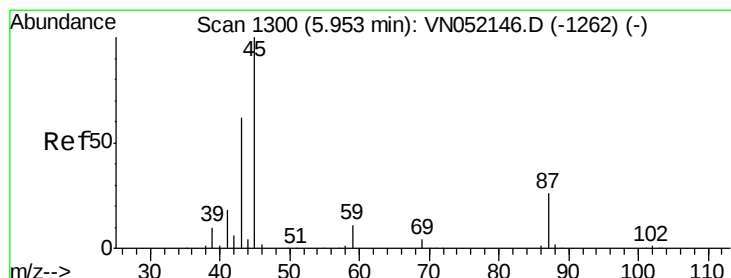
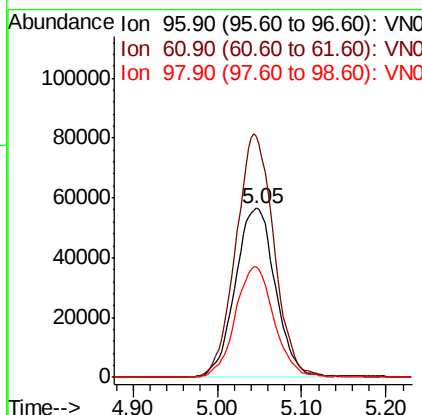
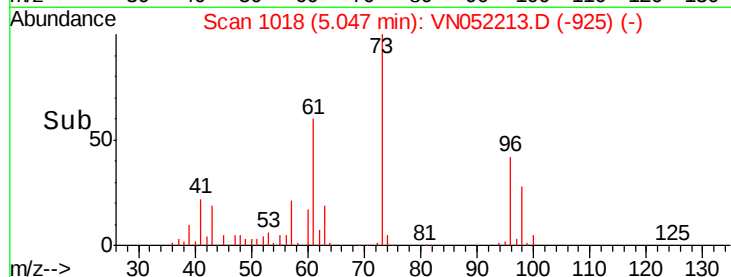
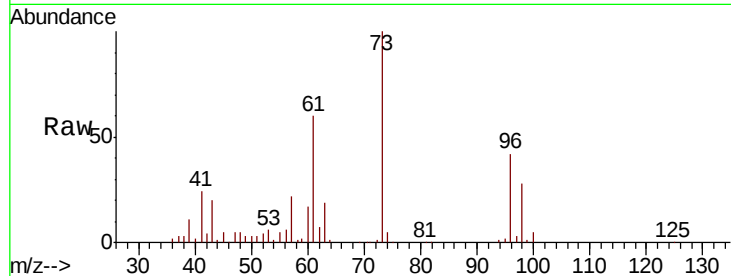
#21
trans-1,2-Dichloroethene
Concen: 50.041 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.0	109.6	164.4
98	65.5	52.0	78.0

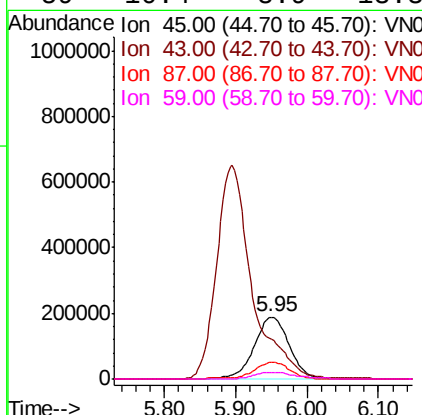
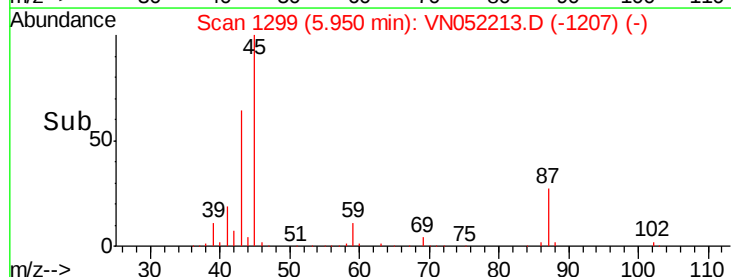
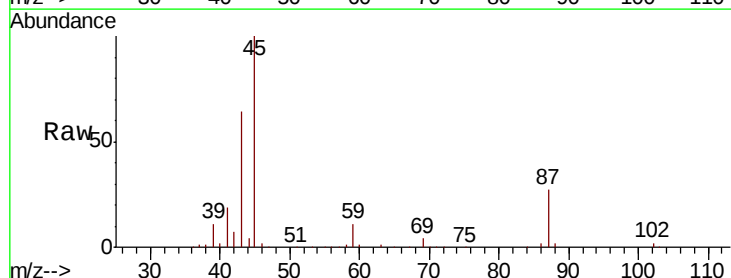
Manual Integrations
APPROVED

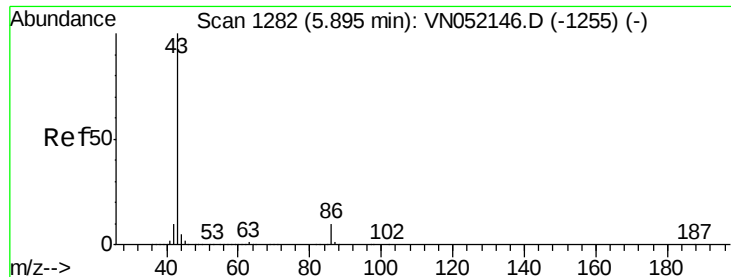
MMDadoda
11/9/2018 11:48:51 AM



#22
Diisopropyl ether
Concen: 52.076 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.3	49.8	74.6
87	26.7	21.1	31.7
59	10.4	8.9	13.3





#23

Vinyl Acetate

Concen: 276.101 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Tot Ion: 43 Resp: 2251631

Ion Ratio Lower Upper

43 100

86 9.8 7.9 11.9

Instrument :

MSVOA_N

ClientSampled :

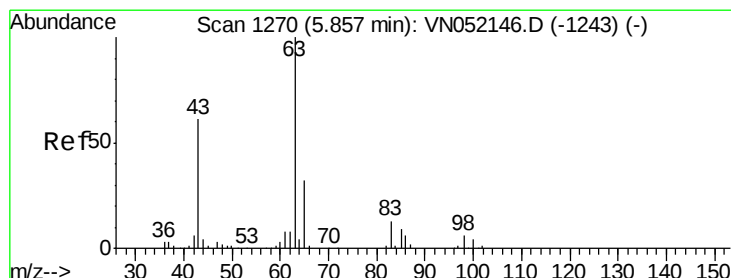
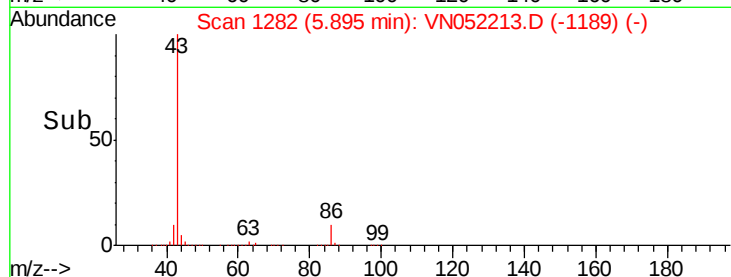
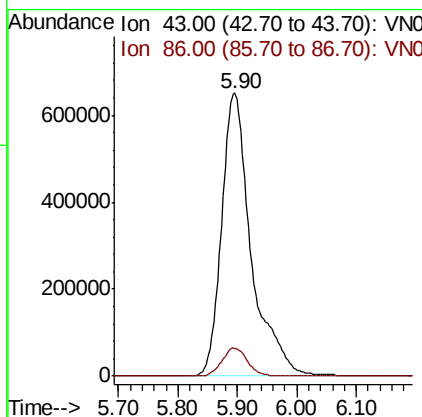
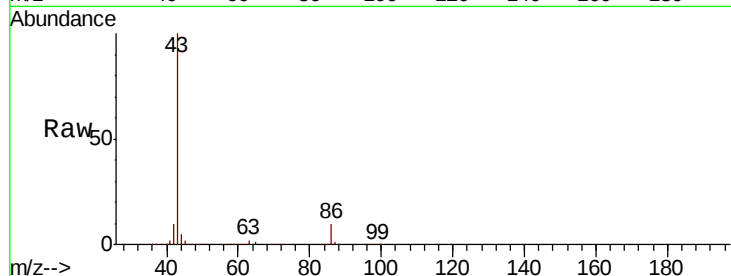
VSTDCCC050

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



#24

1,1-Dichloroethane

Concen: 50.732 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

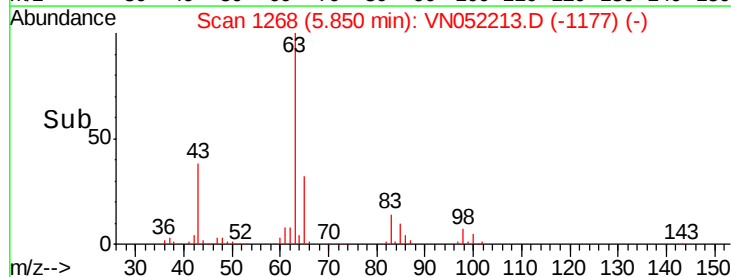
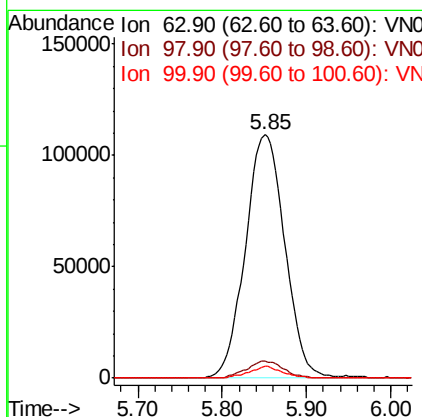
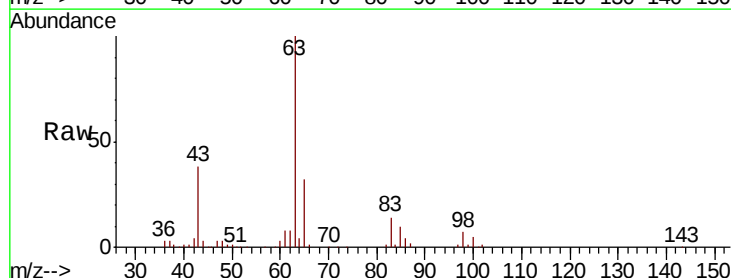
Tgt Ion: 63 Resp: 355605

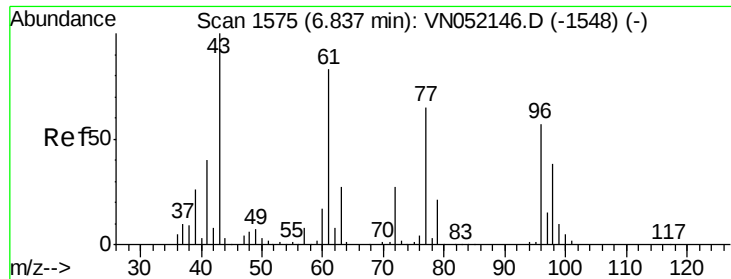
Ion Ratio Lower Upper

63 100

98 6.9 3.1 9.4

100 4.7 2.1 6.2





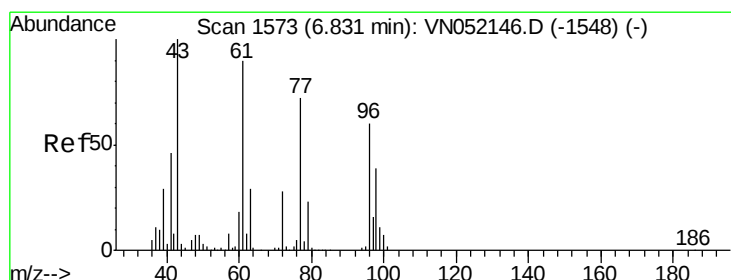
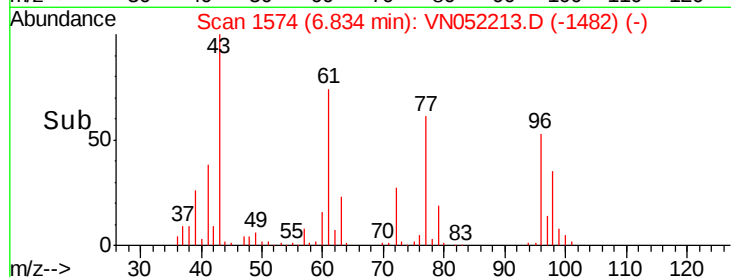
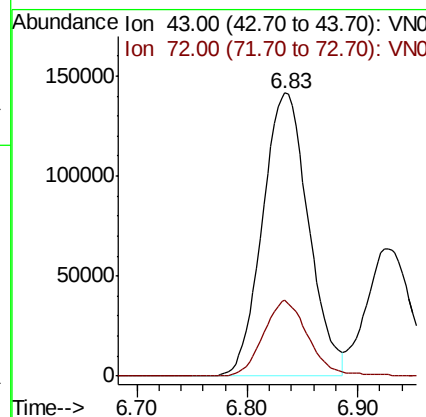
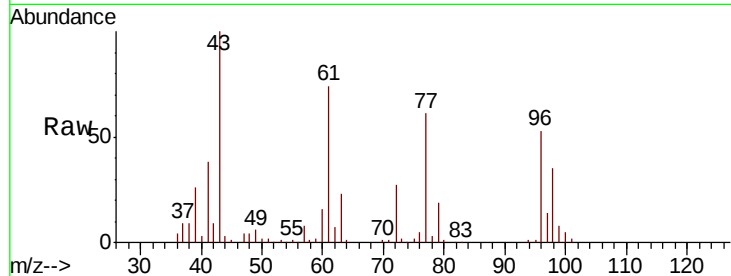
#25
2-Butanone
Concen: 267.437 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 407523
Ion Ratio Lower Upper
43 100
72 26.7 21.4 32.2

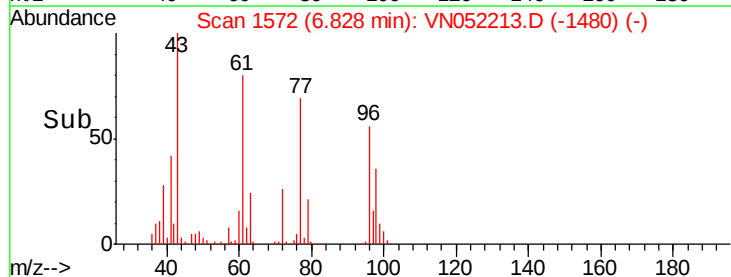
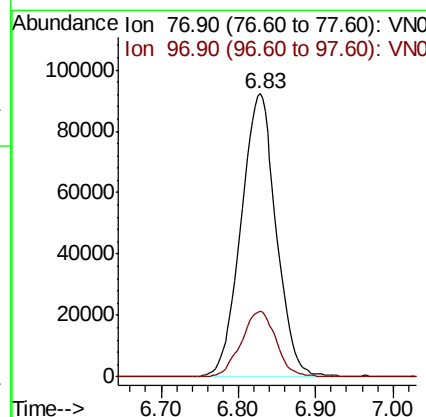
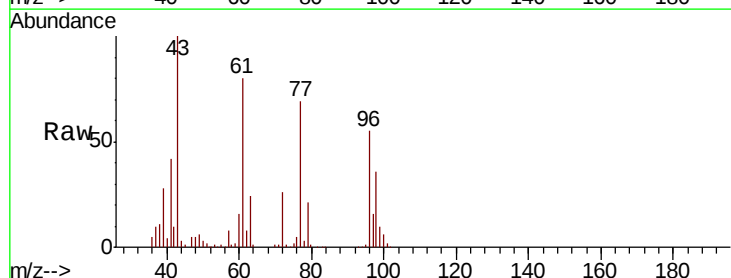
Manual Integrations
APPROVED

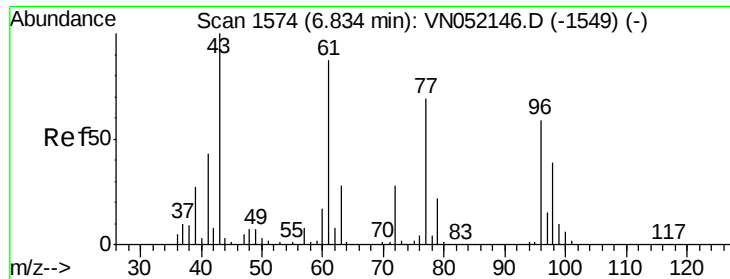
MMDadoda
11/9/2018 11:48:51 AM



#26
2,2-Dichloropropane
Concen: 53.080 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion: 77 Resp: 291185
Ion Ratio Lower Upper
77 100
97 23.2 11.4 34.1





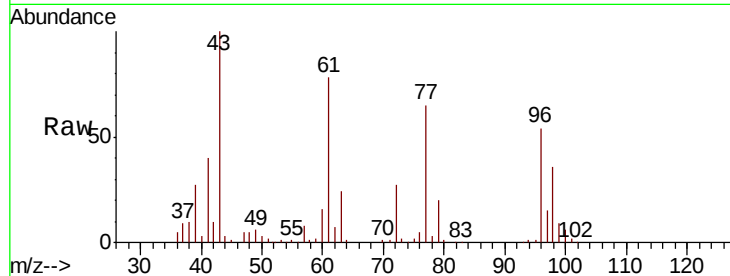
#27
 cis-1,2-Dichloroethene
 Concen: 51.197 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	217643		
61	144.0	0.0	291.8	
98	64.4	0.0	130.0	

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 11:48:51 AM

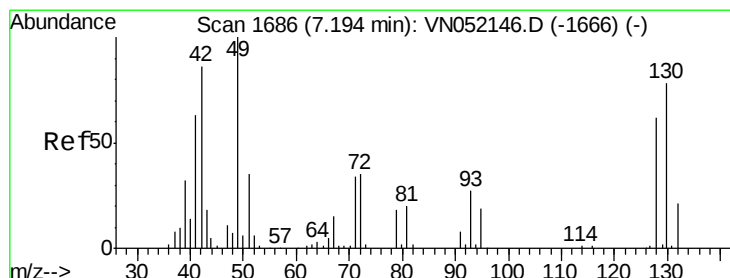
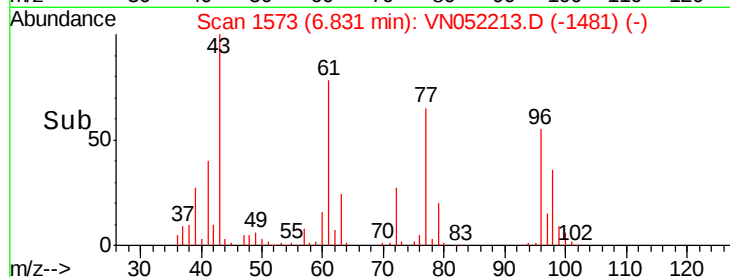
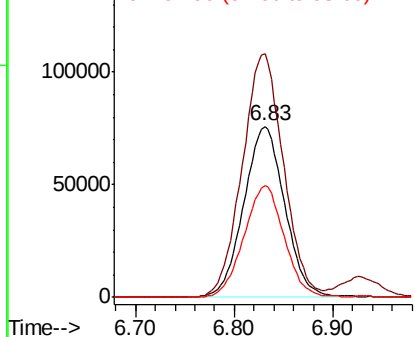


Abundance

Ion 95.90 (95.60 to 96.60): VN052213.D (-1481) (-)

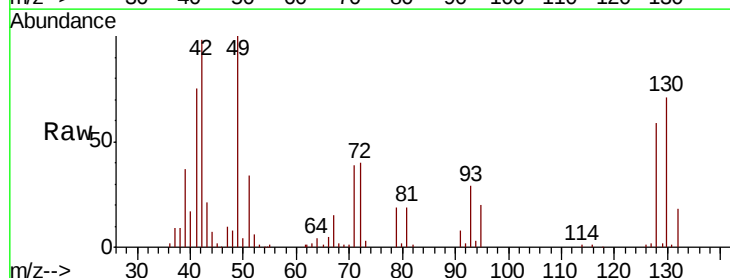
Ion 60.90 (60.60 to 61.60): VN052213.D (-1481) (-)

Ion 97.90 (97.60 to 98.60): VN052213.D (-1481) (-)



#28
 Bromochloromethane
 Concen: 52.466 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	173999		
129	2.2	0.0	4.4	
130	74.0	59.8	89.6	

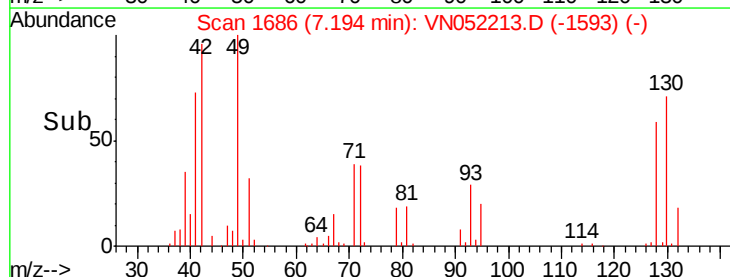
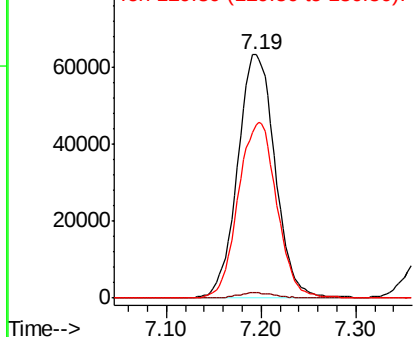


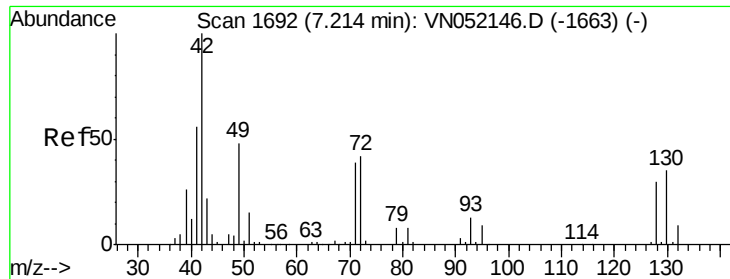
Abundance

Ion 48.90 (48.60 to 49.60): VN052213.D (-1593) (-)

Ion 128.80 (128.50 to 129.50): VN052213.D (-1593) (-)

Ion 129.80 (129.50 to 130.50): VN052213.D (-1593) (-)





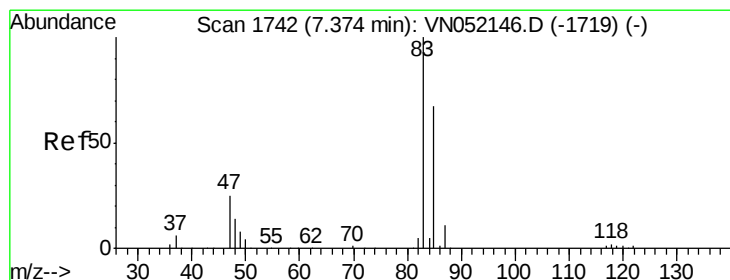
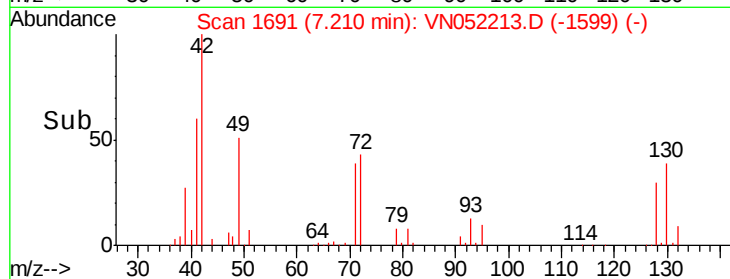
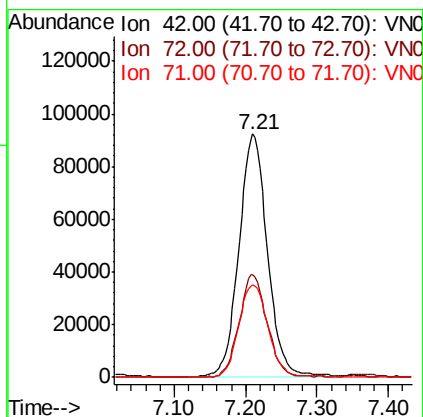
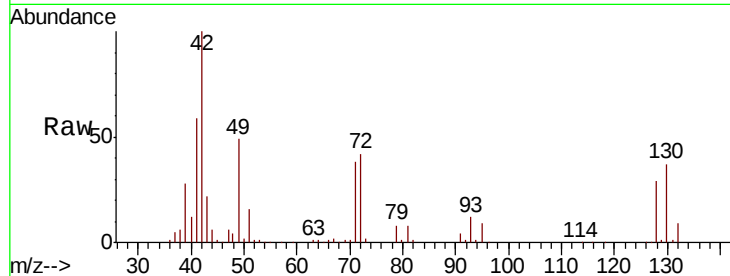
#29
Tetrahydrofuran
Concen: 271.681 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.4	32.3	48.5
71	39.4	31.0	46.6

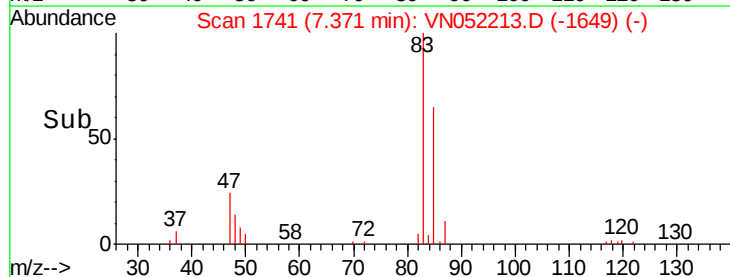
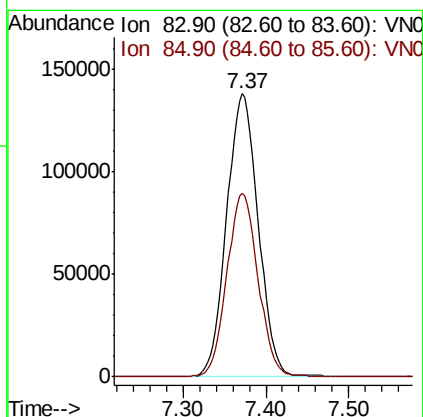
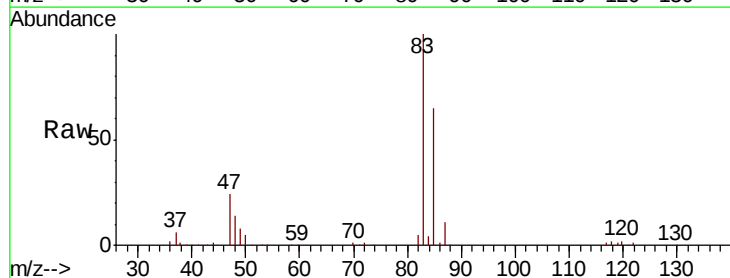
Manual Integrations
APPROVED

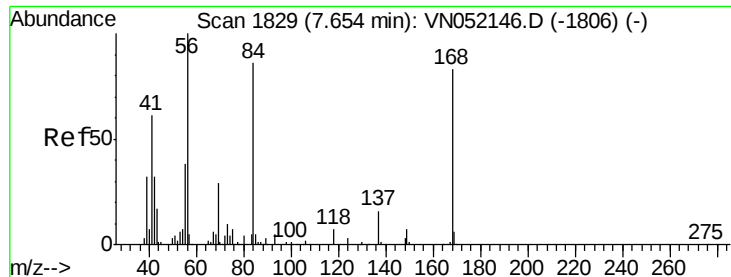
MMDadoda
11/9/2018 11:48:51 AM



#30
Chloroform
Concen: 52.540 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	53.7	80.5





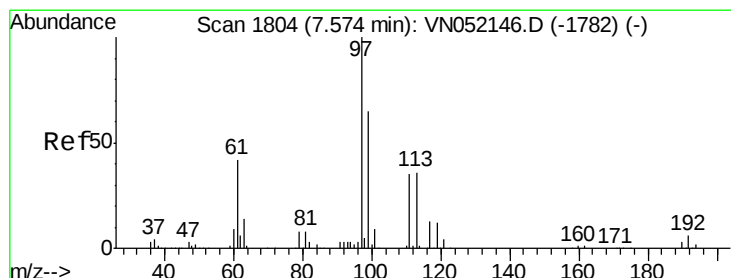
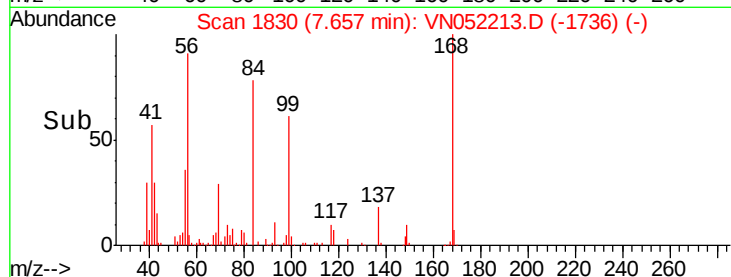
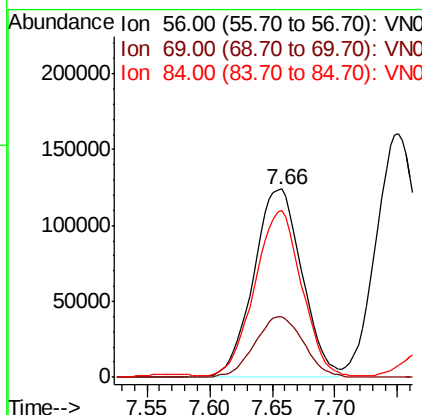
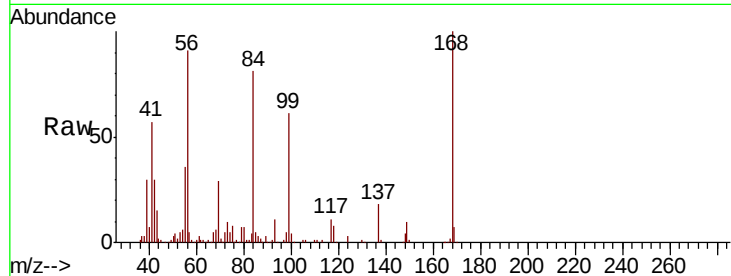
#31
Cyclohexane
Concen: 51.430 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.0	23.5	35.3
84	87.7	68.7	103.1

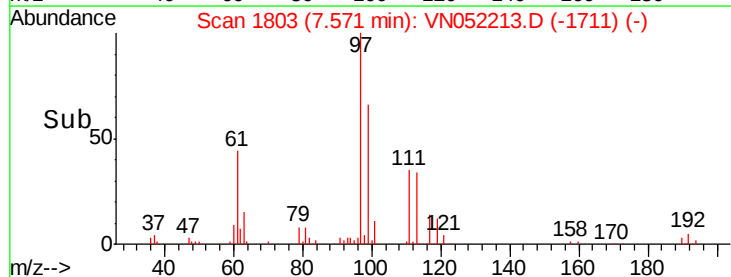
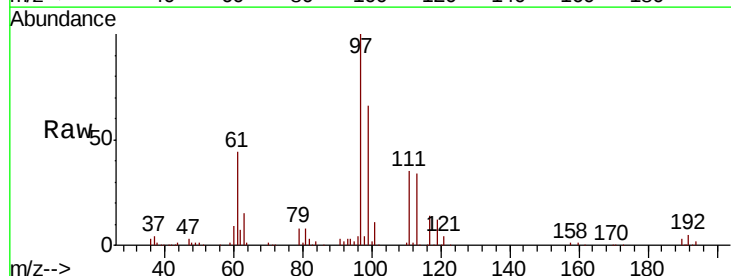
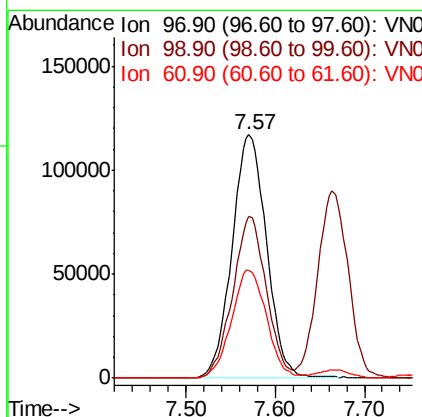
Manual Integrations
APPROVED

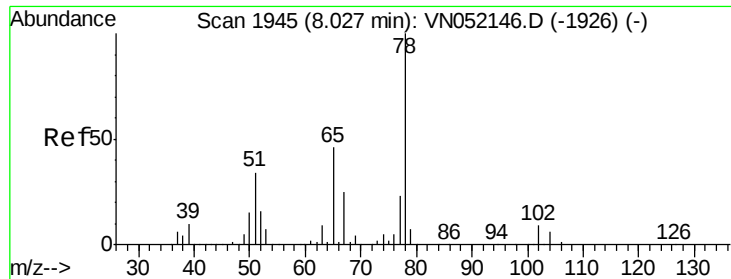
MMDadoda
11/9/2018 11:48:51 AM



#32
1,1,1-Trichloroethane
Concen: 50.959 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.6	77.4
61	44.9	35.1	52.7





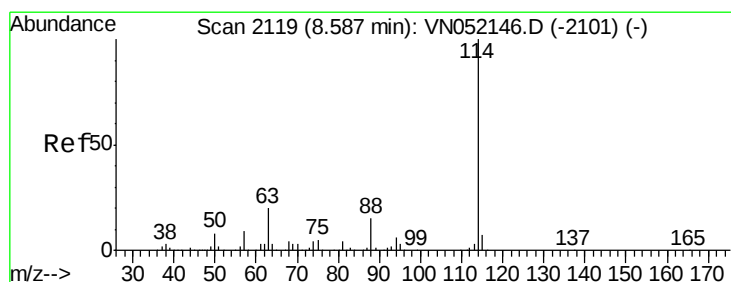
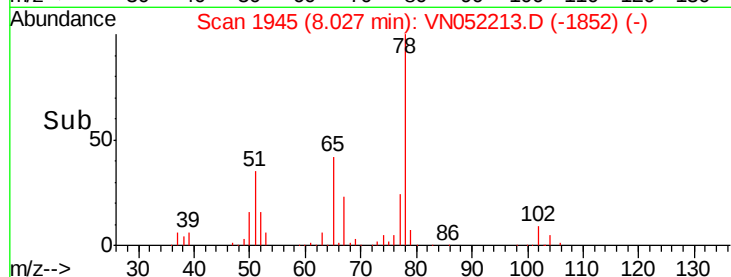
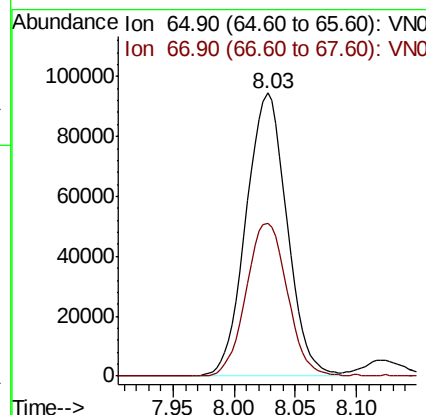
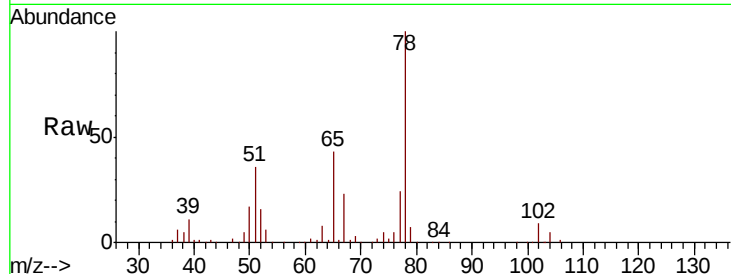
#33
 1,2-Dichloroethane-d4
 Concen: 50.959 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	219608		
67	54.2	0.0	107.6	

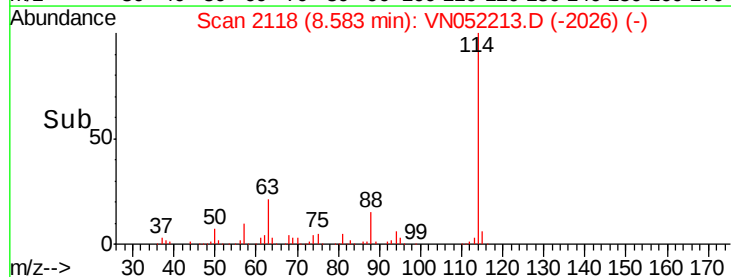
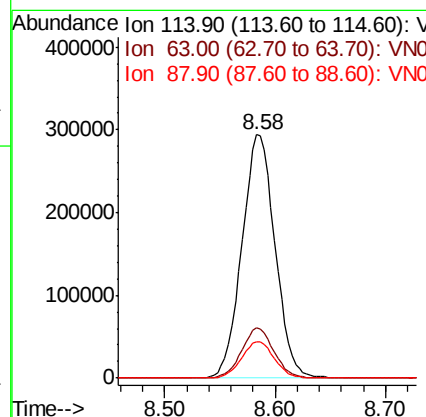
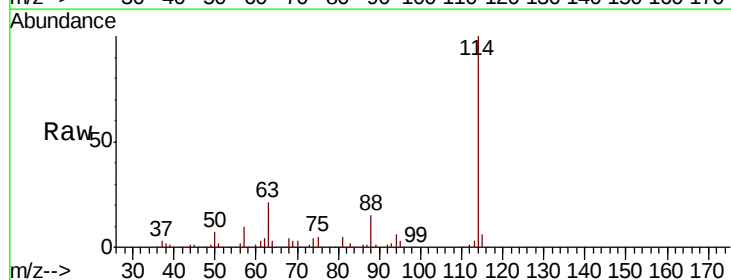
Manual Integrations
 APPROVED

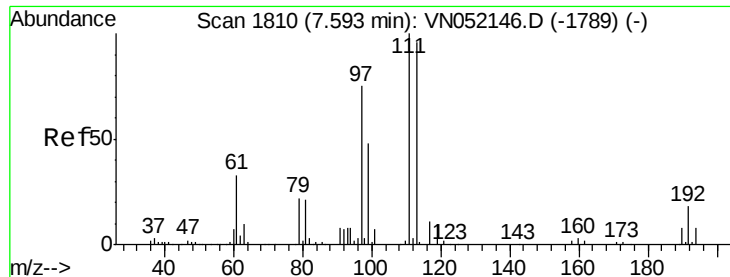
MMDadoda
 11/9/2018 11:48:51 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	610879		
63	20.9	0.0	40.0	
88	14.8	0.0	31.0	





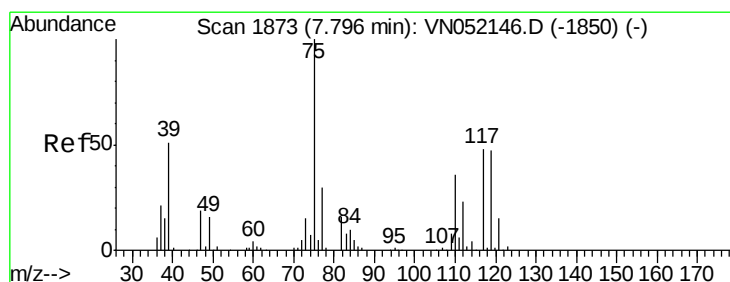
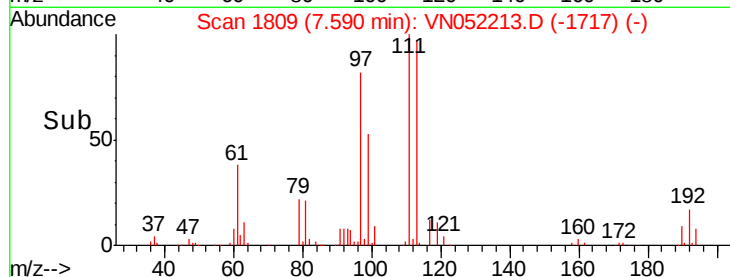
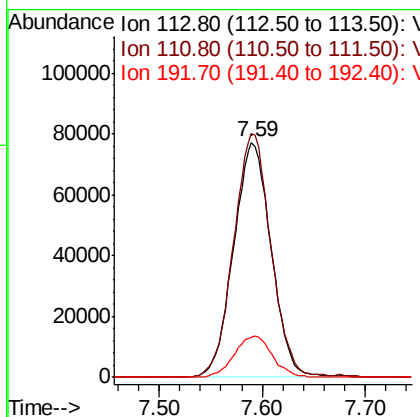
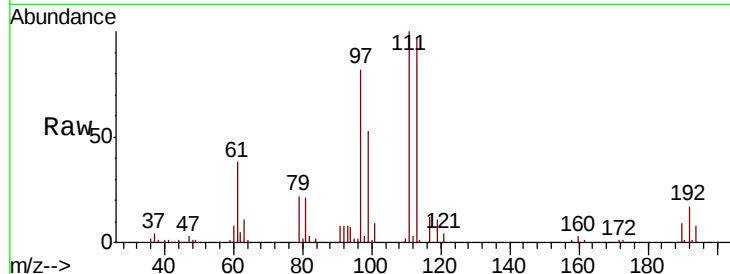
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	196239		
111	103.2	81.7	122.5	
192	17.8	14.2	21.4	

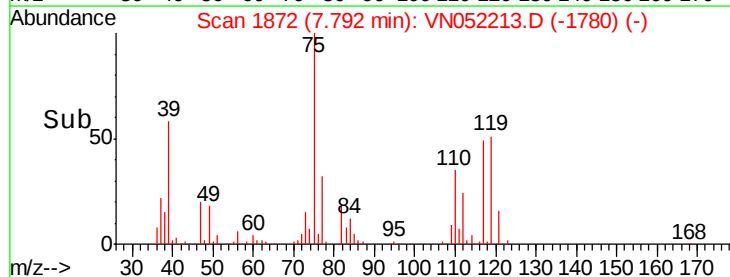
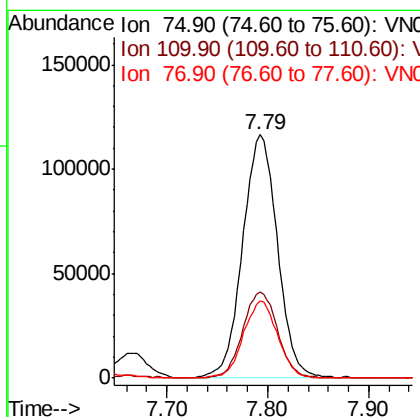
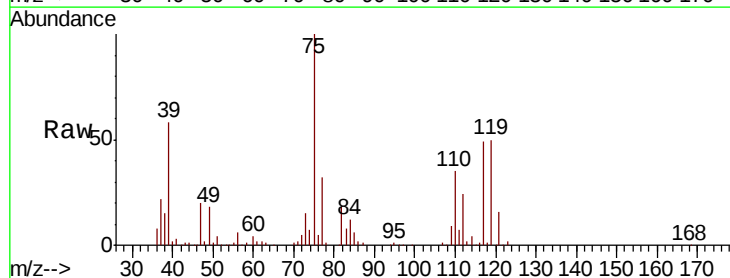
Manual Integrations
APPROVED

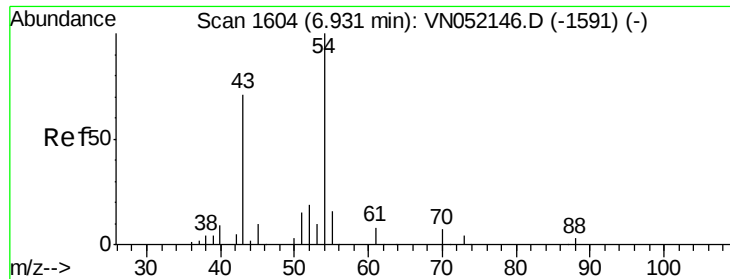
MMDadoda
11/9/2018 11:48:51 AM



#36
1,1-Dichloropropene
Concen: 51.324 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	277357		
110	35.7	17.8	53.5	
77	31.6	24.0	36.0	





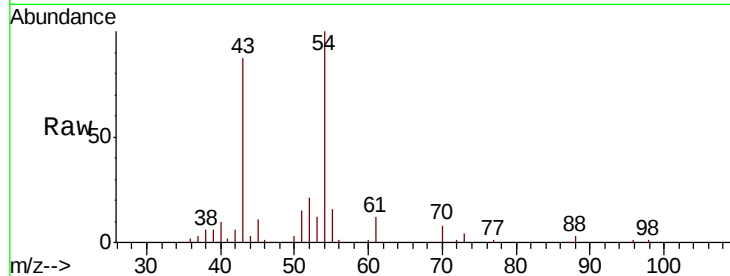
#37
Ethyl Acetate
Concen: 55.764 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.01 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

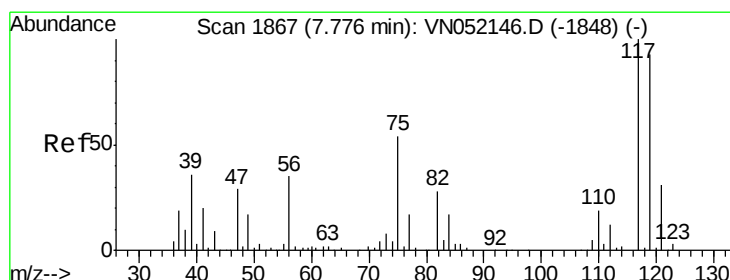
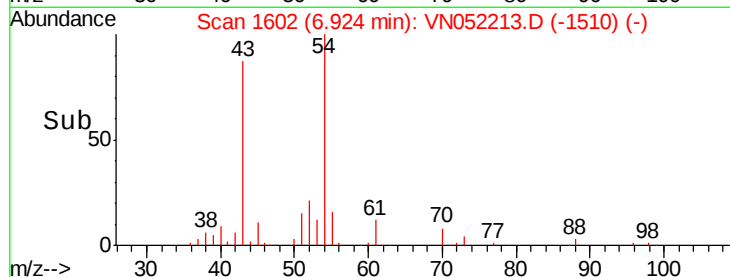
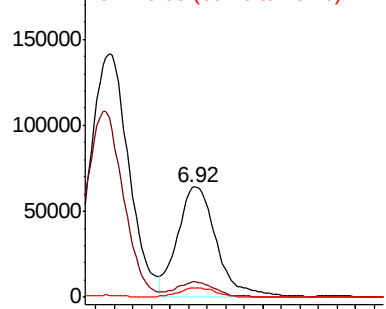
Tot Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.4	14.2
70	8.6	7.6	11.4

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM

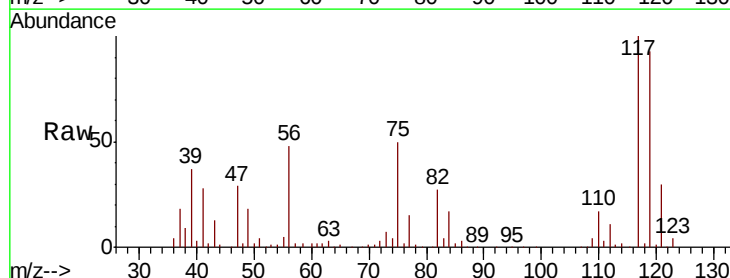


Abundance Ion 43.00 (42.70 to 43.70): VN052146.D (-1591) (-)

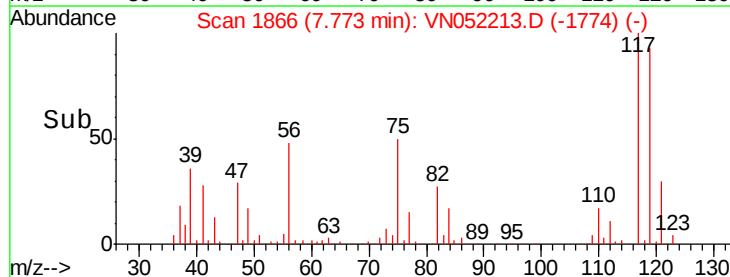
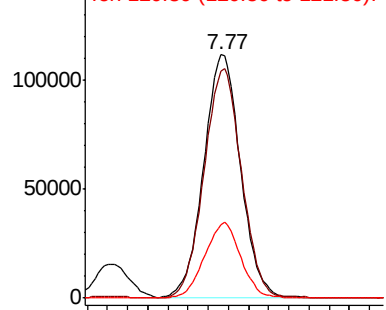


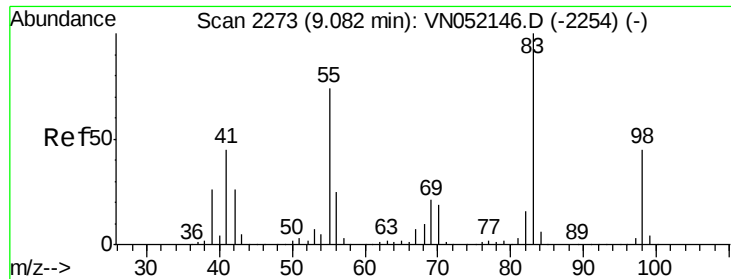
#38
Carbon Tetrachloride
Concen: 52.158 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.4	74.7	112.1
121	30.4	24.5	36.7



Abundance Ion 116.80 (116.50 to 117.50): VN052146.D (-1848) (-)





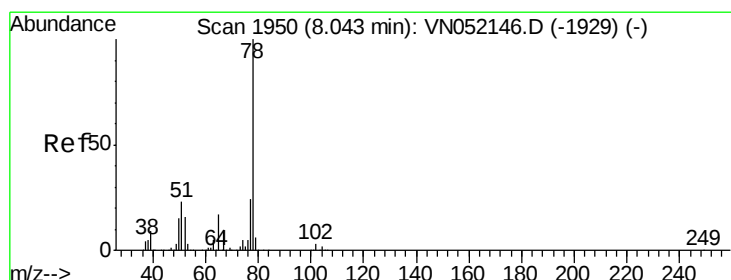
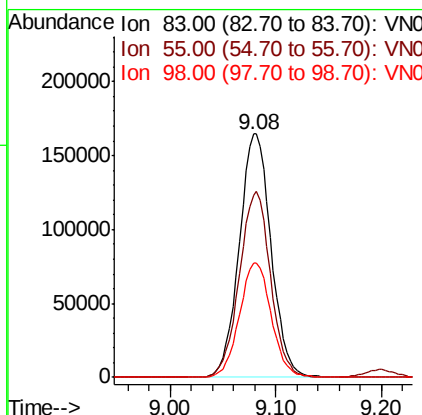
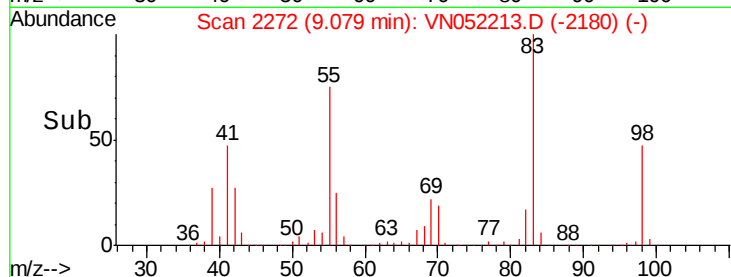
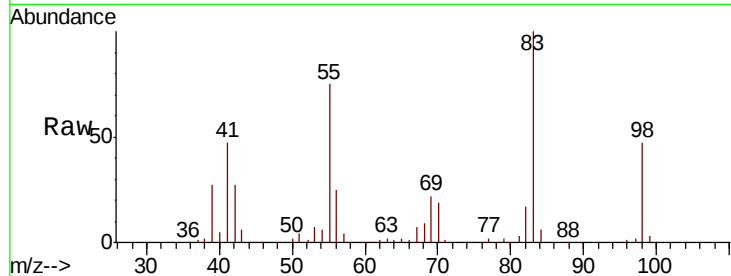
#39
Methvlcvclohexane
Concen: 53.926 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.0	59.4	89.2
98	46.7	36.3	54.5

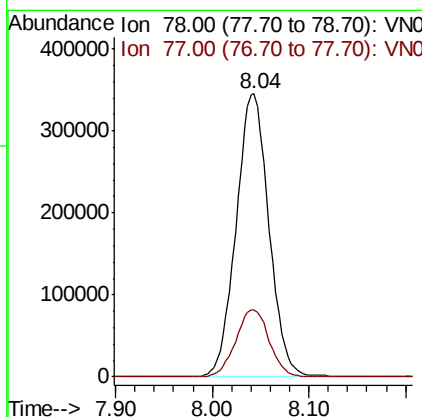
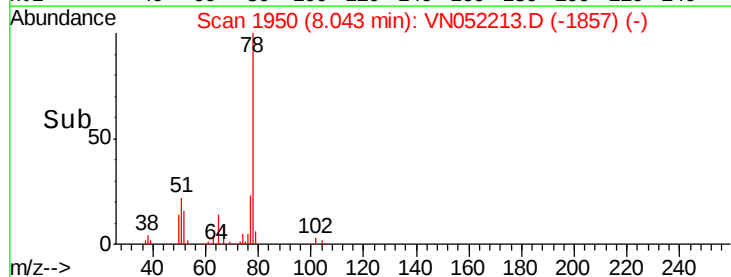
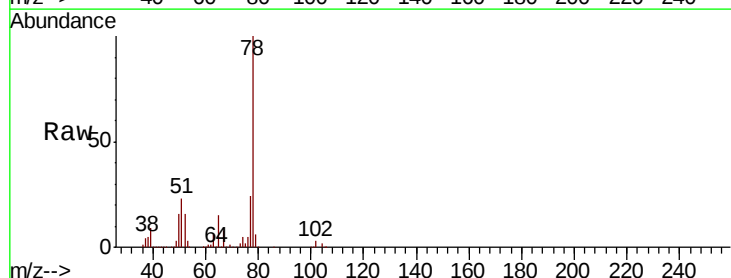
Manual Integrations
APPROVED

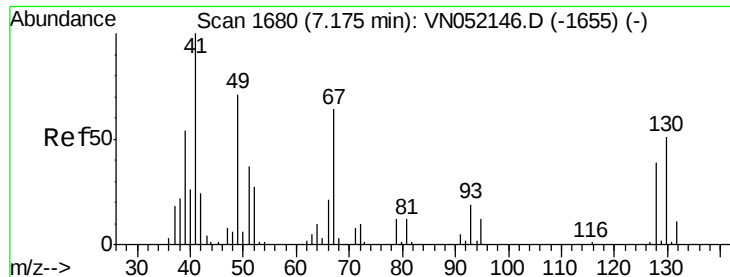
MMDadoda
11/9/2018 11:48:51 AM



#40
Benzene
Concen: 51.145 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.1	28.7





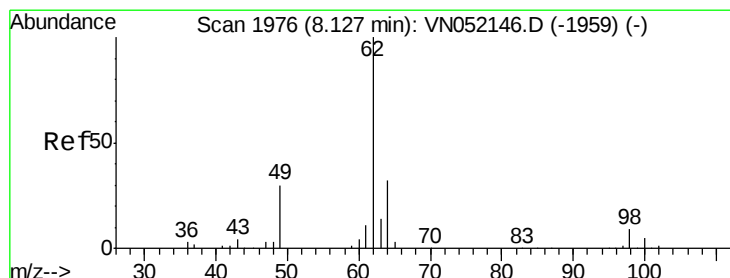
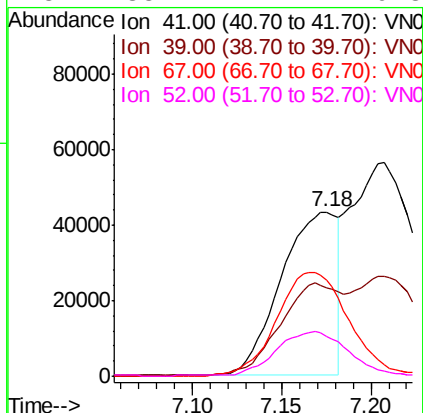
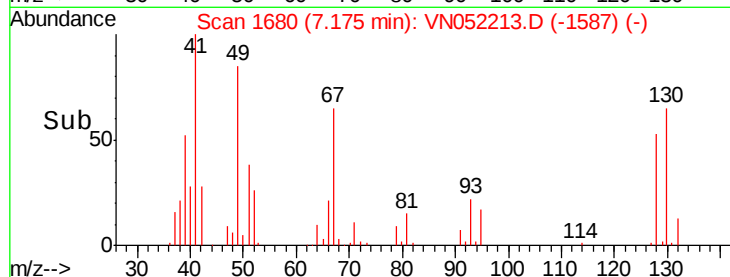
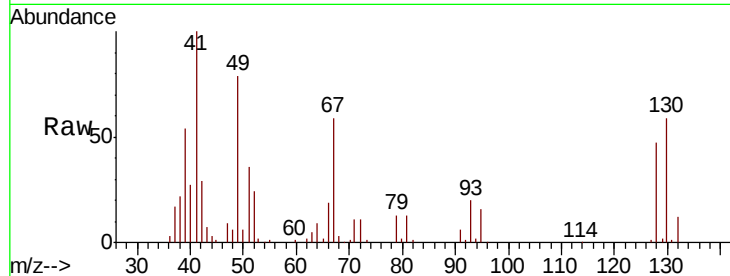
#41
Methacrylonitrile
Concen: 50.854 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	41	Resp	94975
Ion	Ratio	Lower	Upper
41	100		
39	60.2	49.6	74.4
67	81.4	65.4	98.2
52	35.7	27.2	40.8

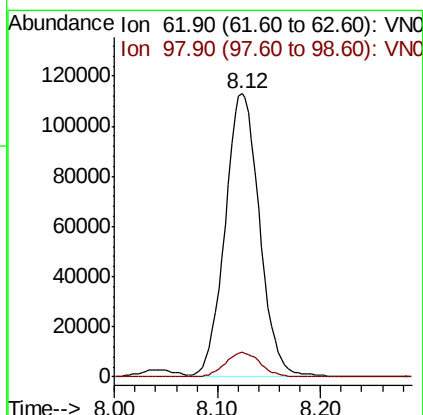
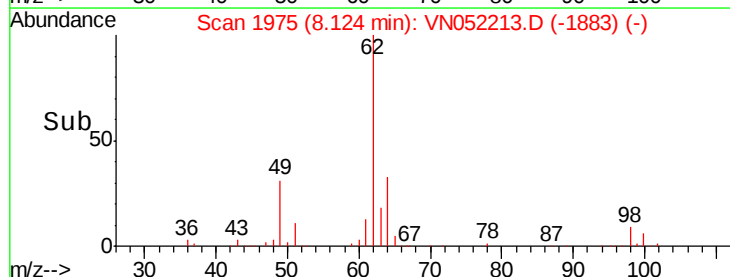
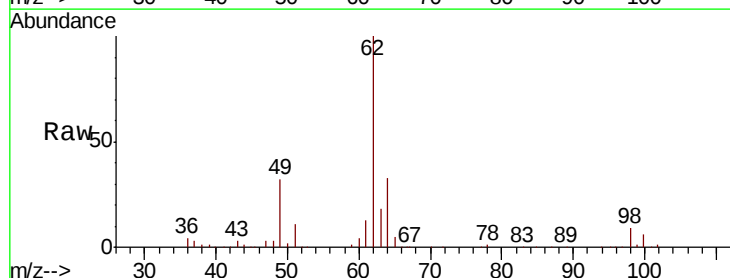
Manual Integrations
APPROVED

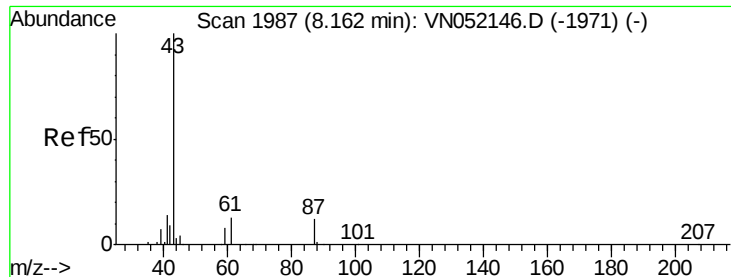
MMDadoda
11/9/2018 11:48:51 AM



#42
1,2-Dichloroethane
Concen: 51.322 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	62	Resp	262095
Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	18.2





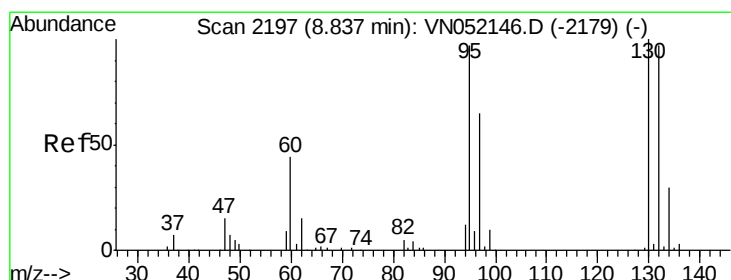
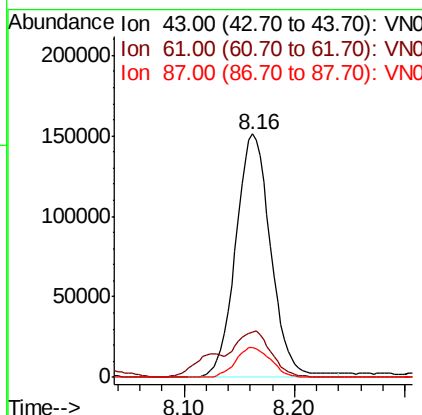
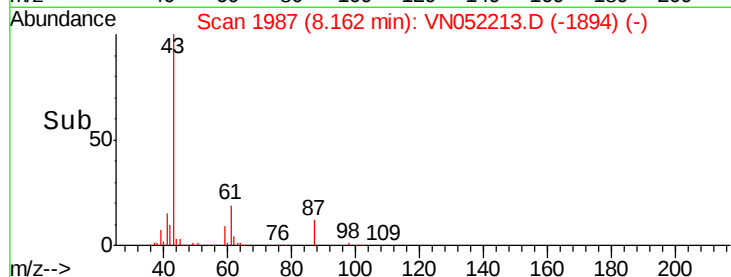
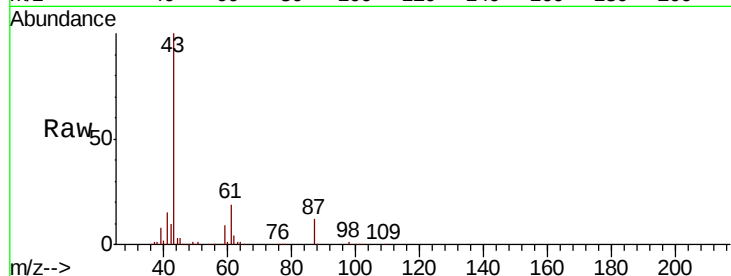
#43
Isopropyl Acetate
Concen: 53.922 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.4	21.5	32.3#
87	12.6	10.2	15.2

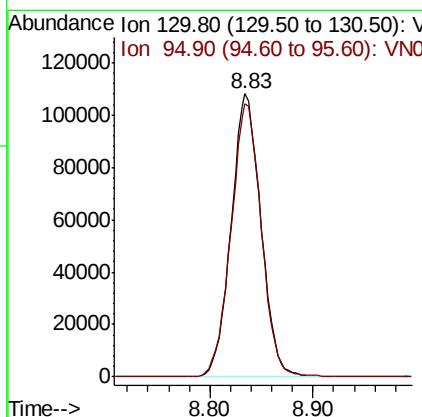
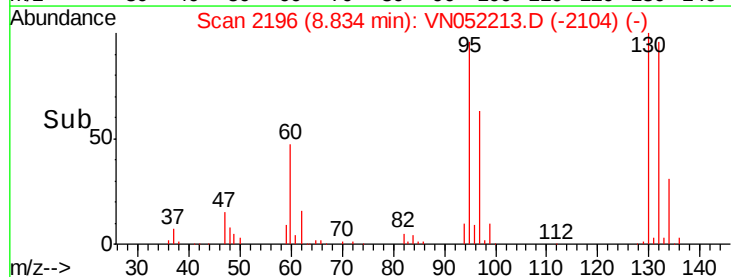
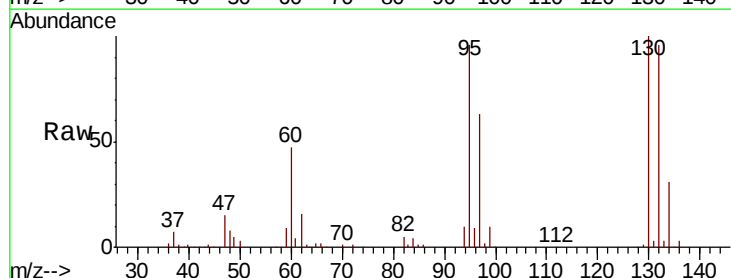
Manual Integrations
APPROVED

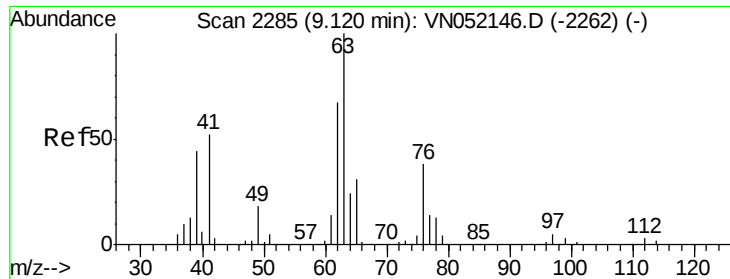
MMDadoda
11/9/2018 11:48:51 AM



#44
Trichloroethene
Concen: 51.619 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.4	0.0	193.8





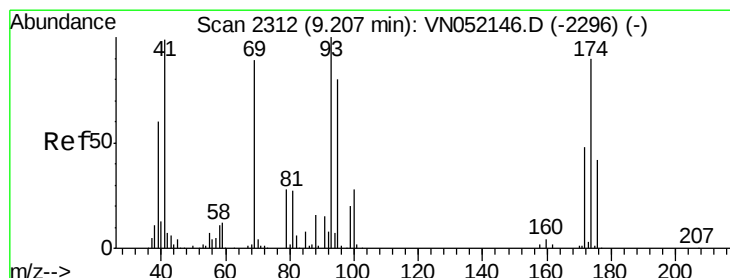
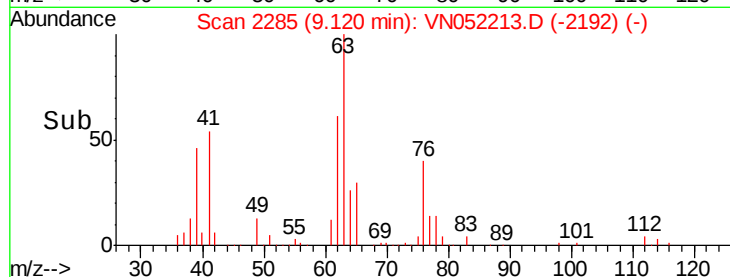
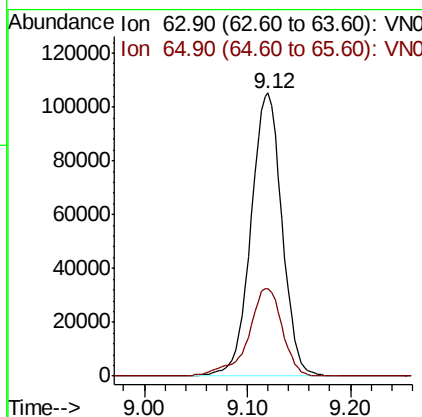
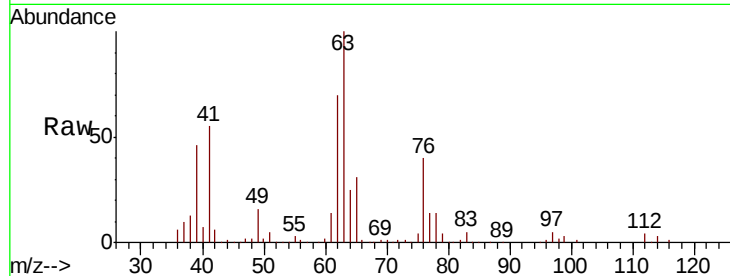
#45
 1,2-Dichloropropane
 Concen: 52.030 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 218900
 Ion Ratio Lower Upper
 63 100
 65 30.9 24.4 36.6

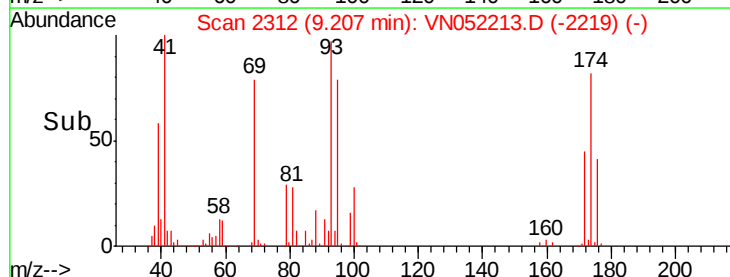
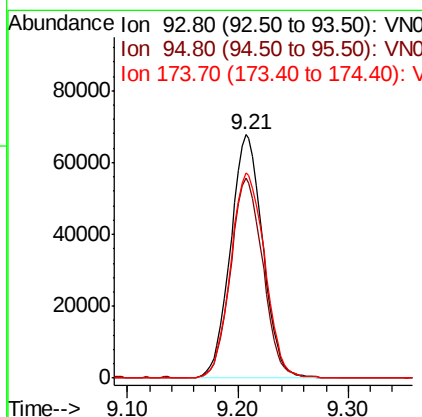
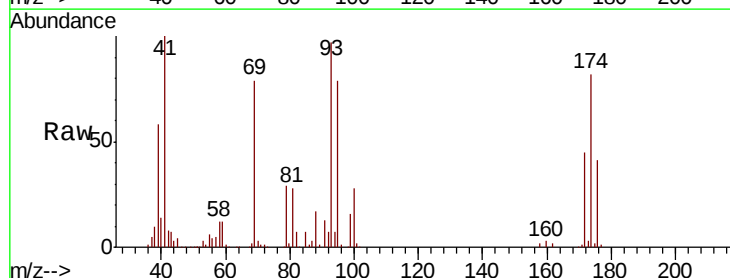
Manual Integrations
 APPROVED

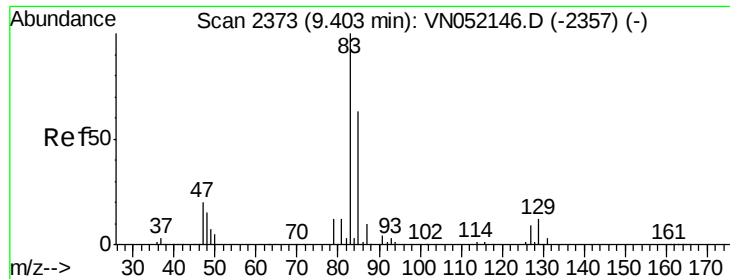
MMDadoda
 11/9/2018 11:48:51 AM



#46
 Dibromomethane
 Concen: 51.535 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Tgt Ion: 93 Resp: 137889
 Ion Ratio Lower Upper
 93 100
 95 82.2 64.5 96.7
 174 88.7 74.6 112.0





#47

Bromodichloromethane

Concen: 53.660 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

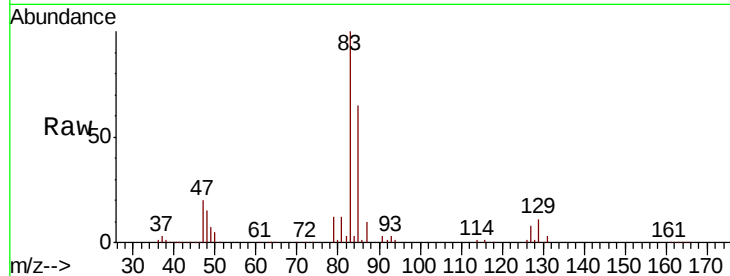
ClientSampleId :

VSTDCCC050

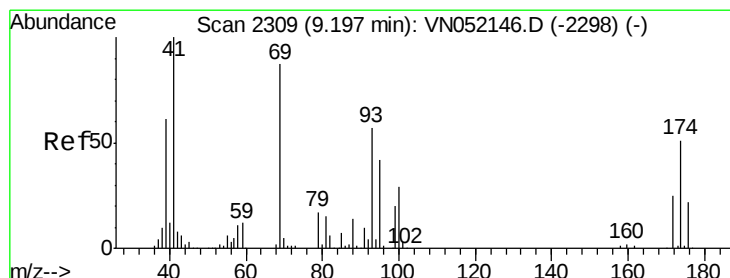
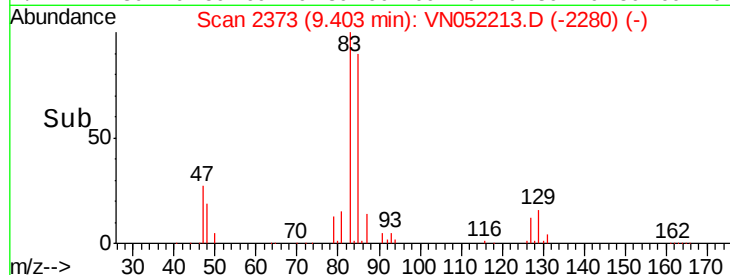
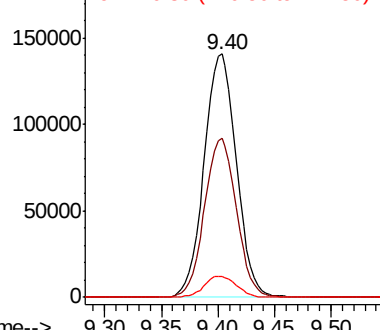
Tot Ion:	83	Resp:	280005
Ion Ratio	Lower	Upper	
83	100		
85	65.2	50.5	75.7
127	8.4	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM



Abundance Ion 82.90 (82.60 to 83.60): VN052213.D (-2280) (-)



#48

Methyl methacrylate

Concen: 56.130 ug/l

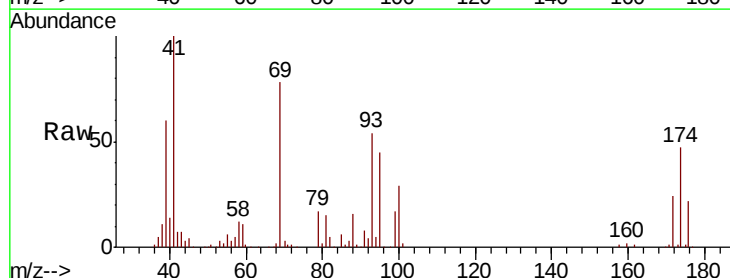
RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

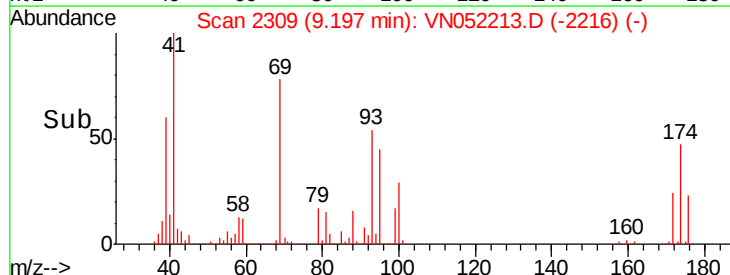
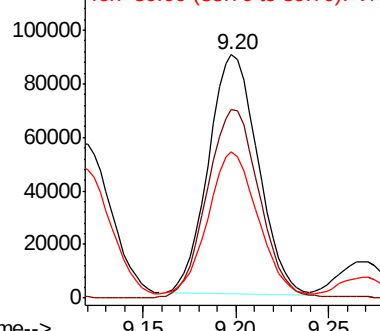
Lab File: VN052213.D

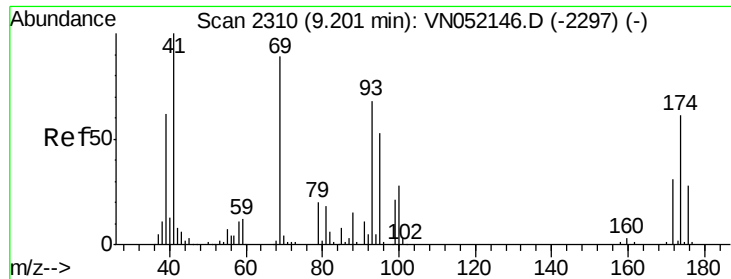
Acq: 8 Nov 2018 9:49

Tgt Ion:	41	Resp:	166574
Ion Ratio	Lower	Upper	
41	100		
69	82.9	69.7	104.5
39	62.0	50.6	76.0



Abundance Ion 41.00 (40.70 to 41.70): VN052213.D (-2216) (-)





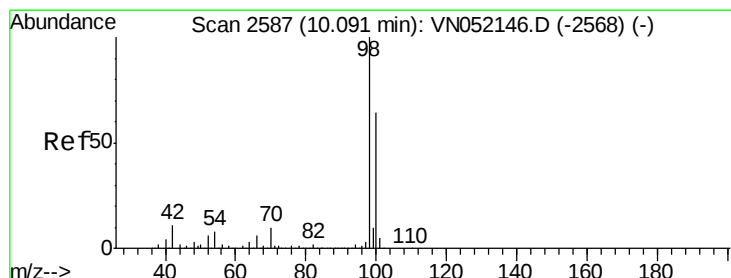
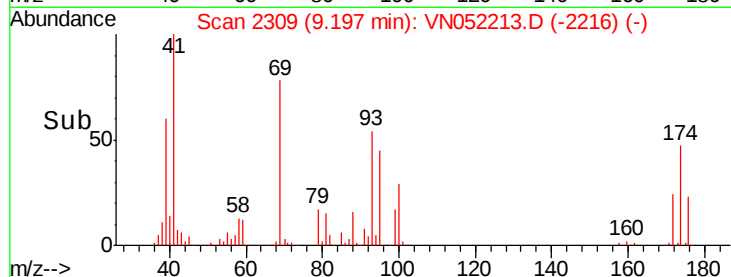
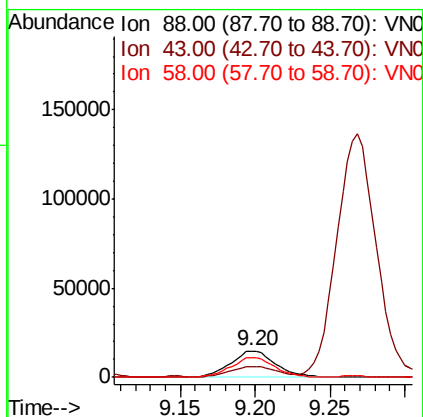
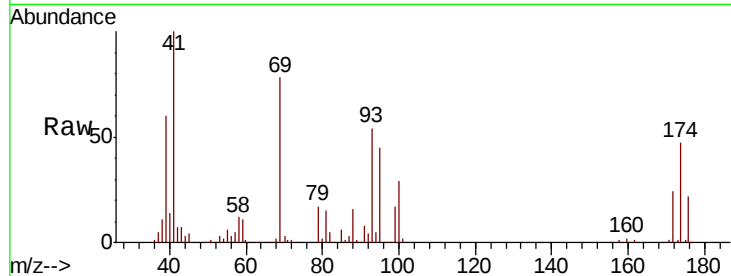
#49
1,4-Dioxane
Concen: 1233.772 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.6	33.0	49.6
58	72.5	58.6	88.0

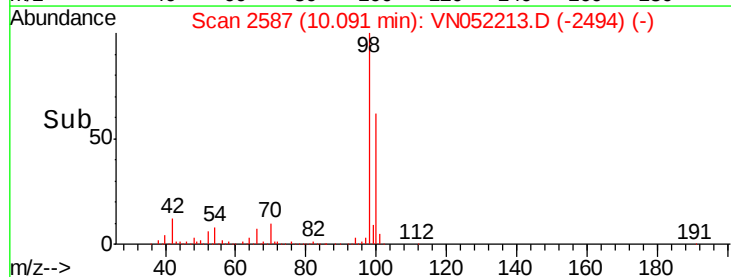
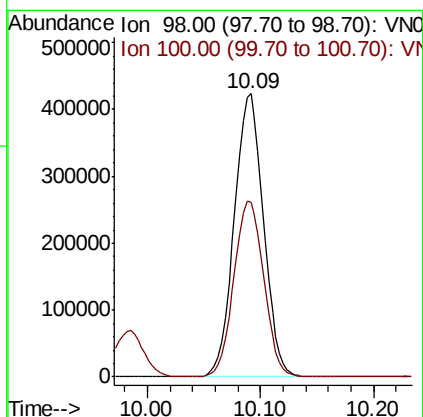
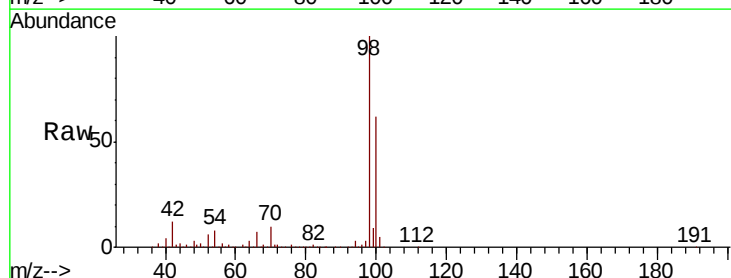
Manual Integrations
APPROVED

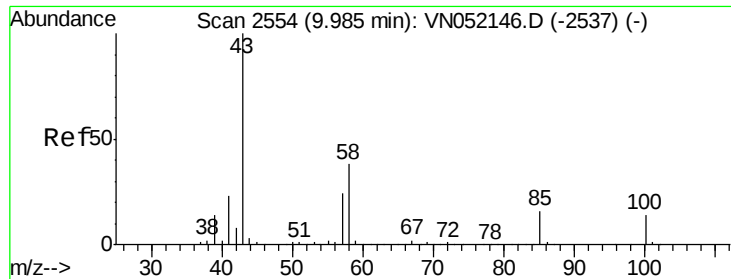
MMDadoda
11/9/2018 11:48:51 AM



#50
Toluene-d8
Concen: 1233.772 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.3	50.5	75.7





#51

4-Methyl-2-Pentanone

Concen: 280.203 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 912769

Ion Ratio Lower Upper

43 100

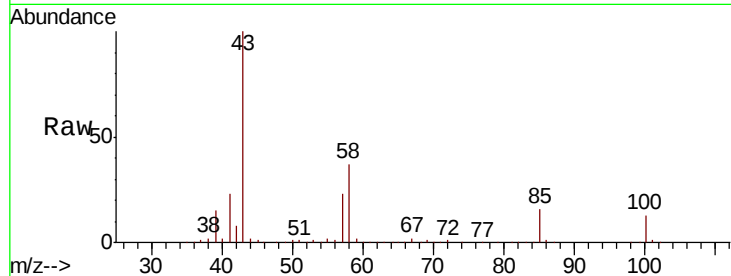
58 37.1 29.6 44.4

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



Abundance Ion 43.00 (42.70 to 43.70): VN052213.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN052213.D (-2537) (-)

600000

500000

400000

300000

200000

100000

0

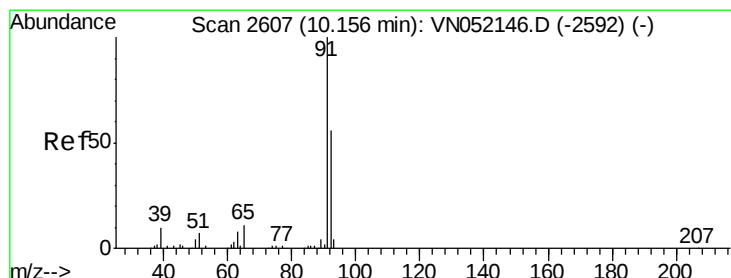
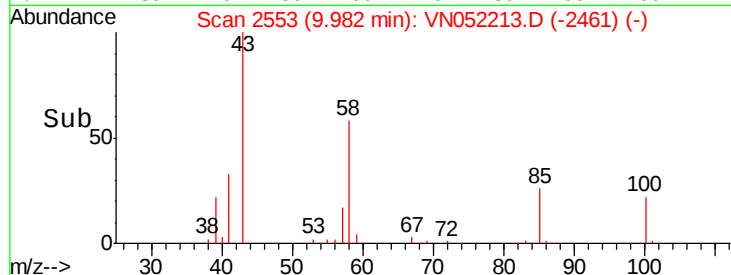
9.90

9.98

10.00

10.10

Time-->



#52

Toluene

Concen: 53.303 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052213.D

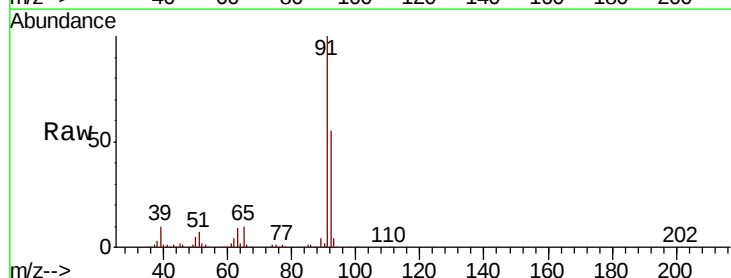
Acq: 8 Nov 2018 9:49

Tgt Ion: 92 Resp: 510627

Ion Ratio Lower Upper

92 100

91 179.4 142.5 213.7



Abundance Ion 92.00 (91.70 to 92.70): VN052213.D (-2514) (-)

Ion 91.00 (90.70 to 91.70): VN052213.D (-2514) (-)

500000

400000

300000

200000

100000

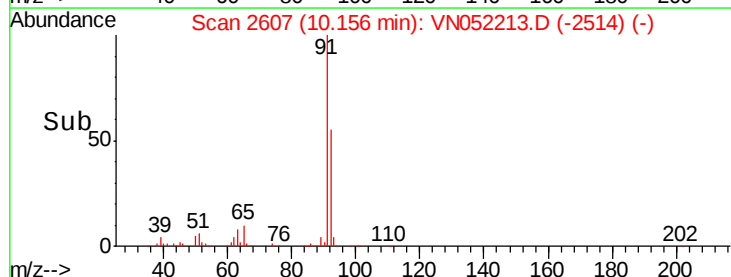
0

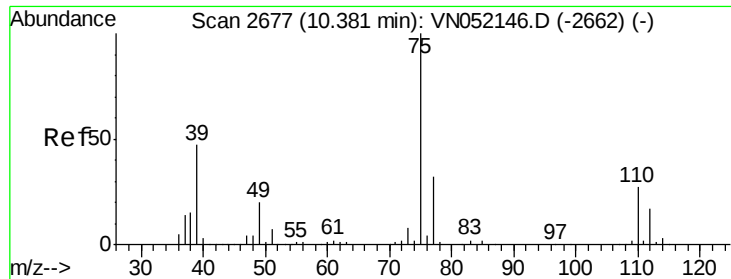
10.10

10.16

10.20

Time-->





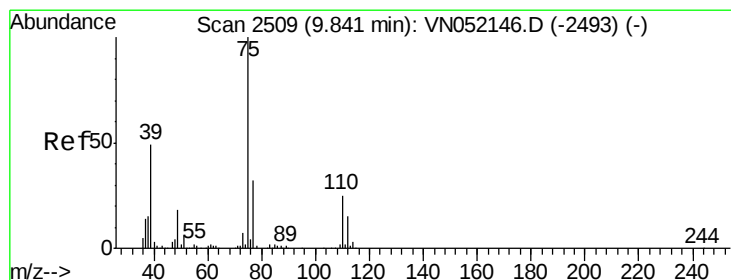
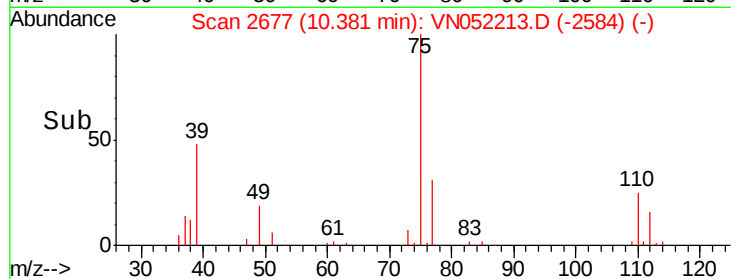
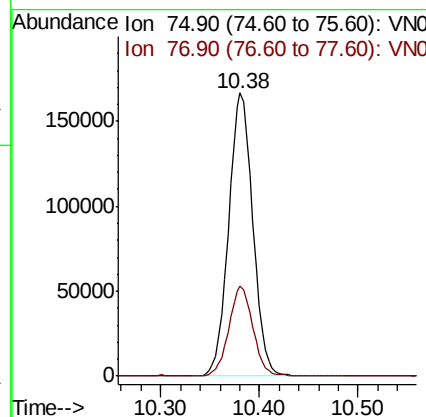
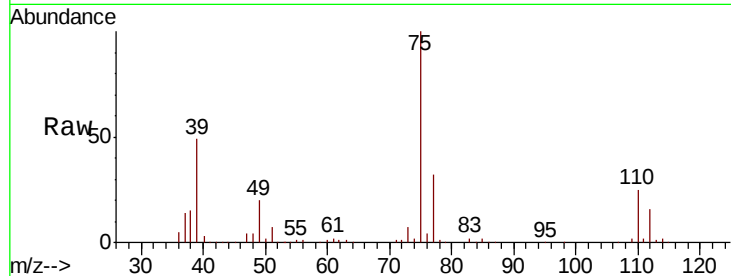
#53
t-1,3-Dichloropropene
Concen: 56.057 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 286956
Ion Ratio Lower Upper
75 100
77 31.5 25.8 38.6

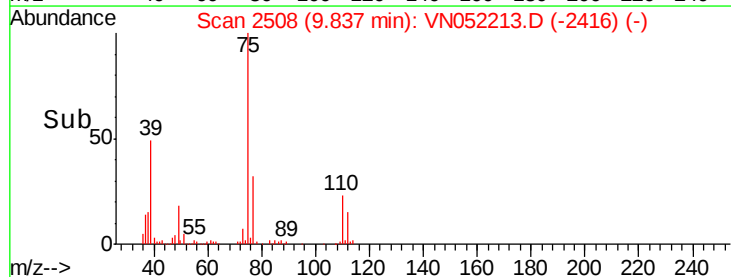
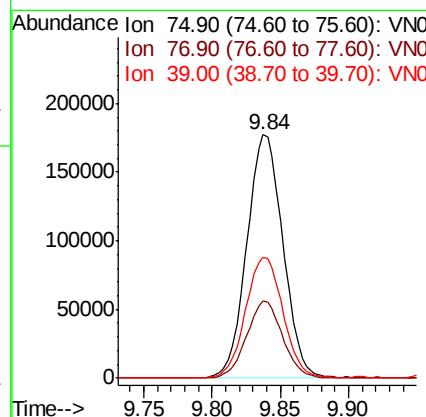
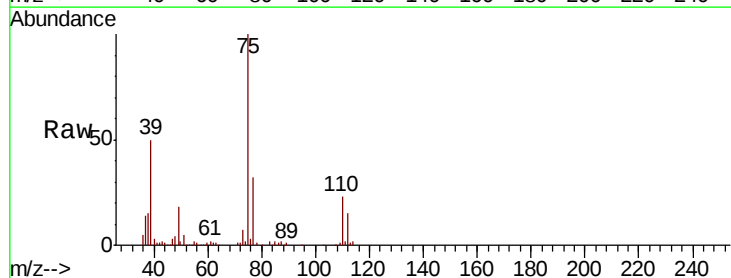
Manual Integrations
APPROVED

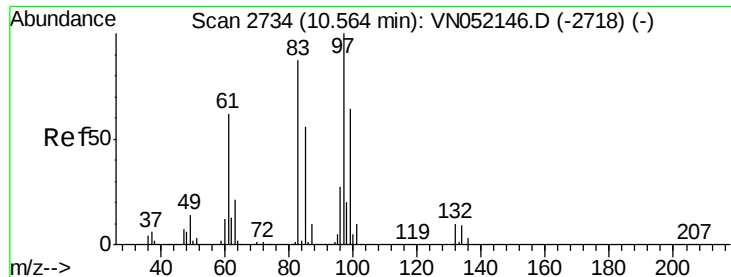
MMDadoda
11/9/2018 11:48:51 AM



#54
cis-1,3-Dichloropropene
Concen: 54.422 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion: 75 Resp: 325997
Ion Ratio Lower Upper
75 100
77 31.6 25.8 38.8
39 49.4 39.2 58.8





#55

1,1,2-Trichloroethane

Concen: 55.167 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

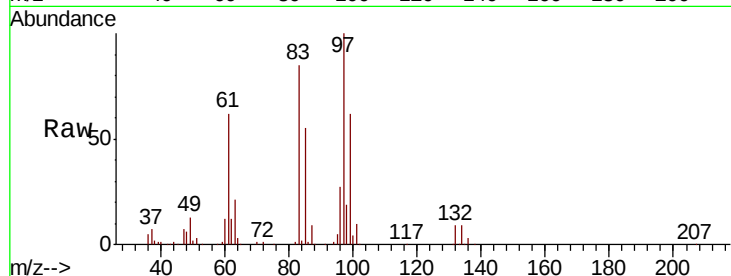
ClientSampleId :

VSTDCCC050

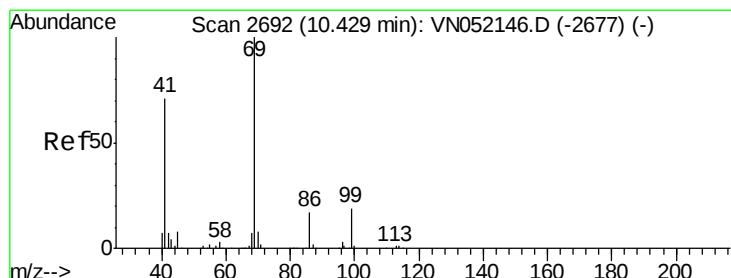
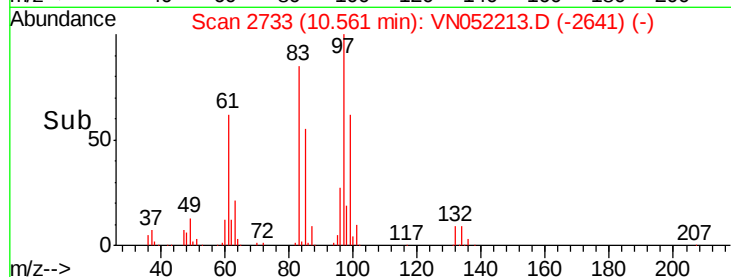
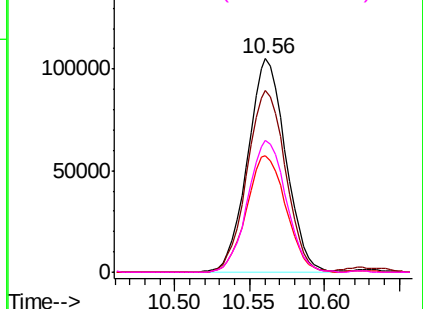
Tot Ion:	97	Resp:	186329
Ion	Ratio	Lower	Upper
97	100		
83	84.8	69.3	103.9
85	54.5	44.9	67.3
99	61.5	51.5	77.3

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM



Abundance Ion 96.90 (96.60 to 97.60): VNC
Ion 82.90 (82.60 to 83.60): VNC
Ion 84.90 (84.60 to 85.60): VNC
Ion 98.90 (98.60 to 99.60): VNC



#56

Ethyl methacrylate

Concen: 54.684 ug/l

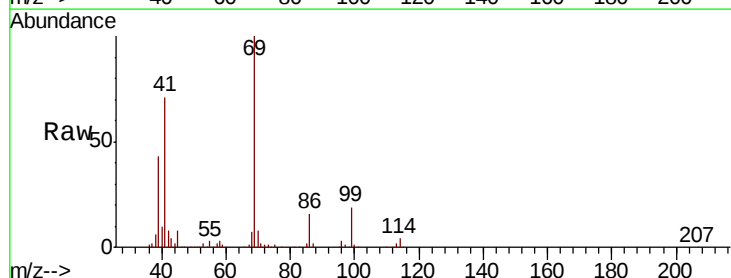
RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

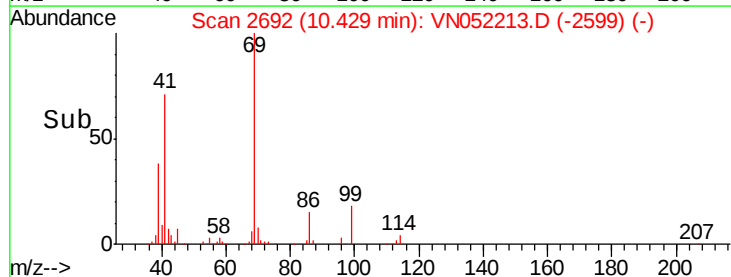
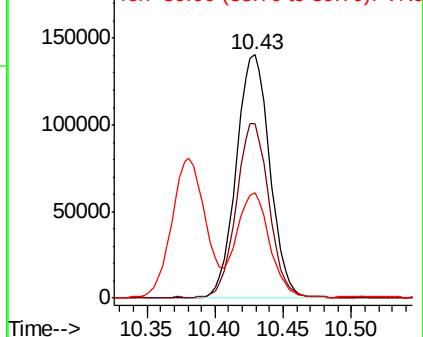
Lab File: VN052213.D

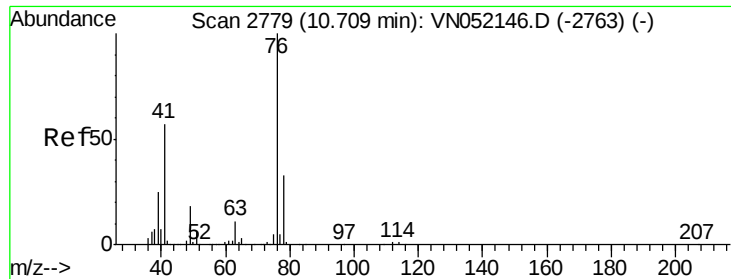
Acq: 8 Nov 2018 9:49

Tgt Ion:	69	Resp:	240746
Ion	Ratio	Lower	Upper
69	100		
41	69.2	55.4	83.0
39	41.7	32.0	48.0



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





#57

1,3-Dichloropropane

Concen: 52.805 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 314198

Ion Ratio Lower Upper

76 100

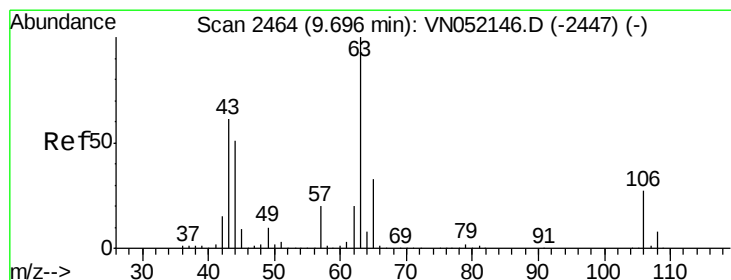
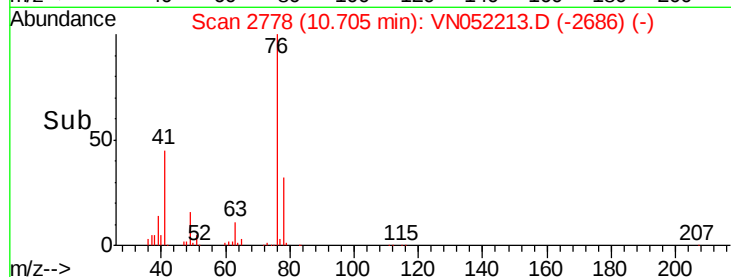
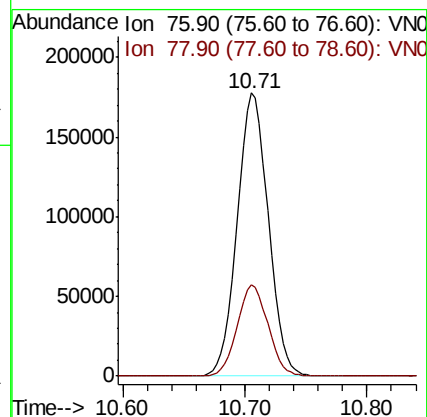
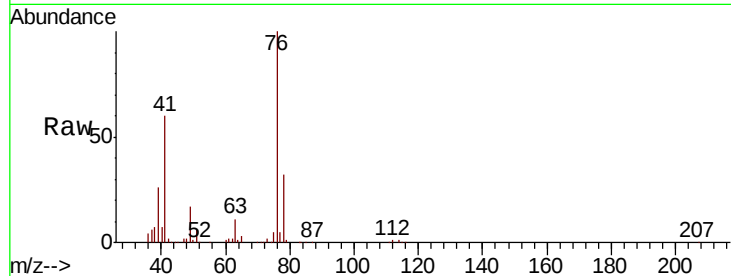
78 32.1 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



#58

2-Chloroethyl Vinyl ether

Concen: 284.694 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052213.D

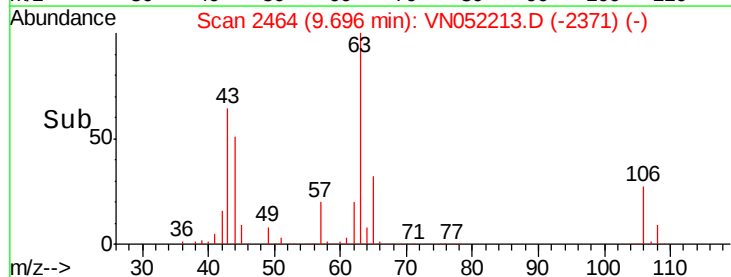
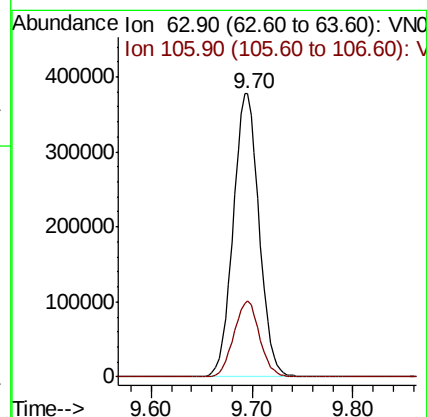
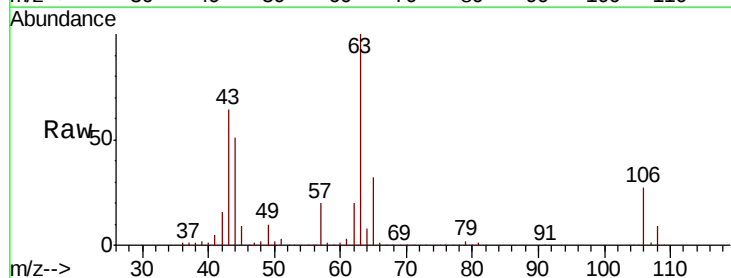
Acq: 8 Nov 2018 9:49

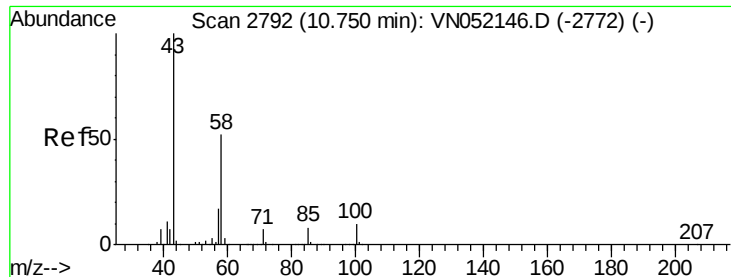
Tgt Ion: 63 Resp: 674520

Ion Ratio Lower Upper

63 100

106 26.6 21.0 31.4





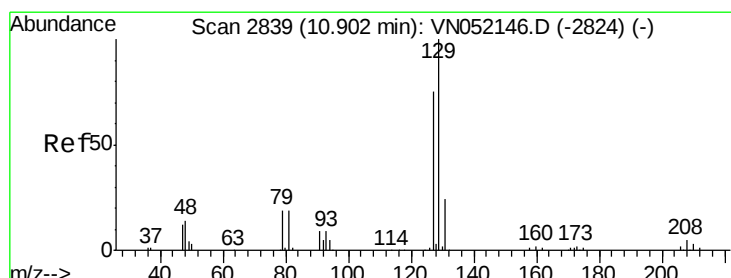
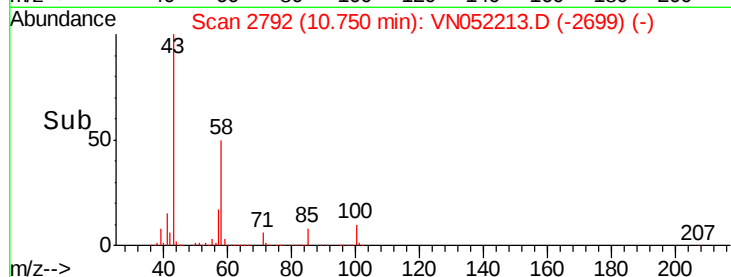
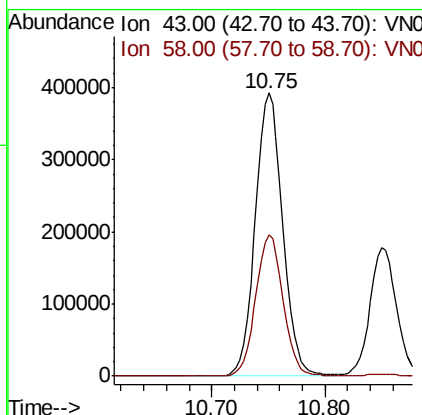
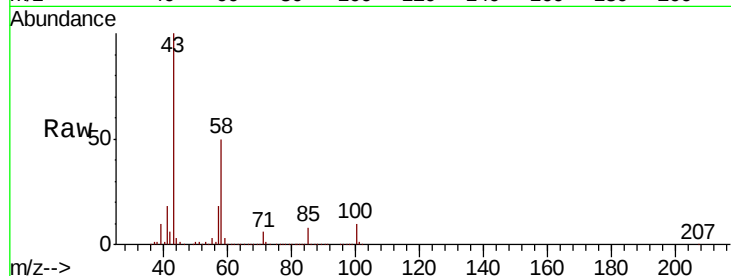
#59
2-Hexanone
Concen: 290.396 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 43 Resp: 658513
Ion Ratio Lower Upper
43 100
58 50.1 25.8 77.4

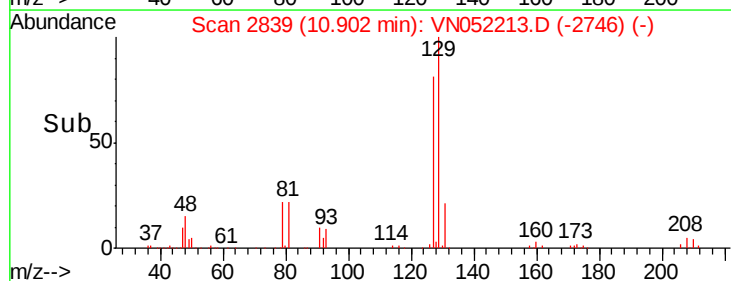
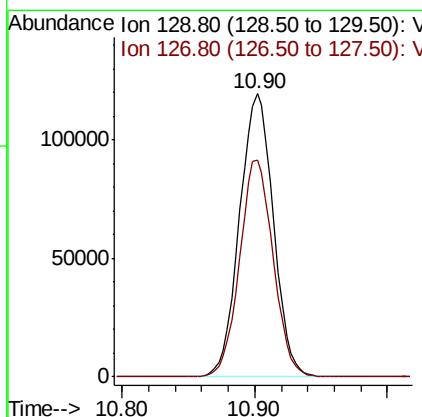
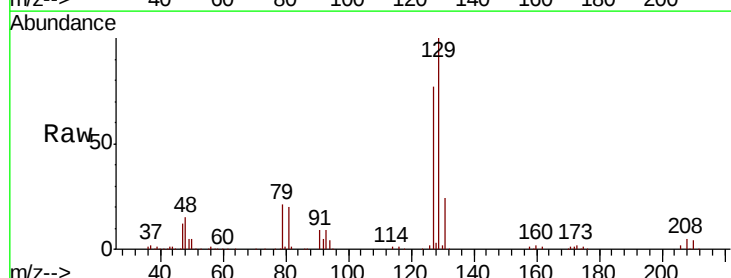
Manual Integrations
APPROVED

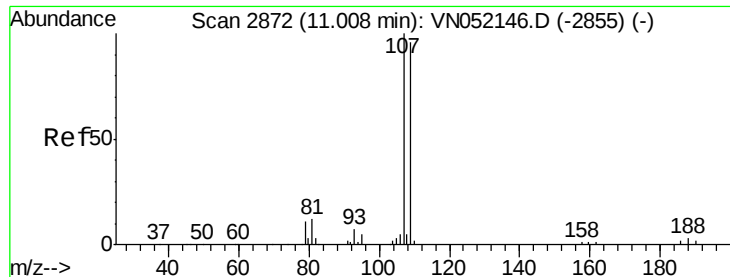
MMDadoda
11/9/2018 11:48:51 AM



#60
Dibromochloromethane
Concen: 55.219 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion: 129 Resp: 212095
Ion Ratio Lower Upper
129 100
127 75.9 38.0 114.1





#61

1,2-Dibromoethane

Concen: 54.533 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 186969

Ion Ratio Lower Upper

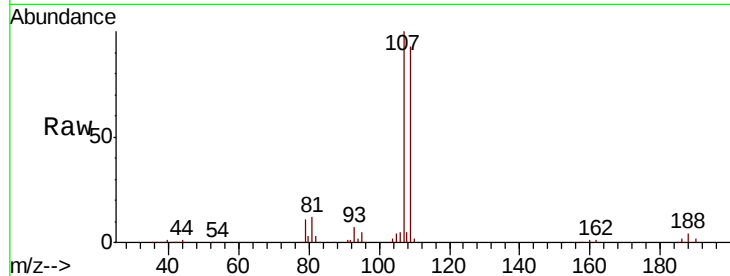
107 100

109 95.6 76.0 114.0

Manual Integrations
APPROVED

MMDadoda

11/9/2018 11:48:51 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

120000

100000

80000

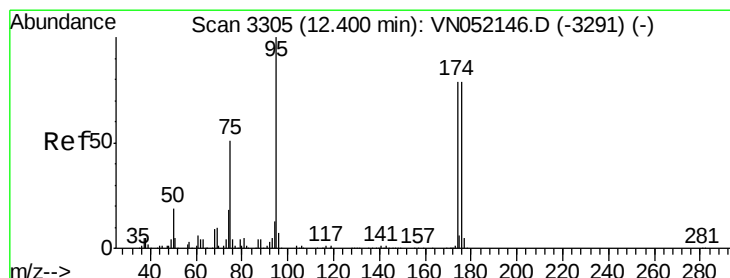
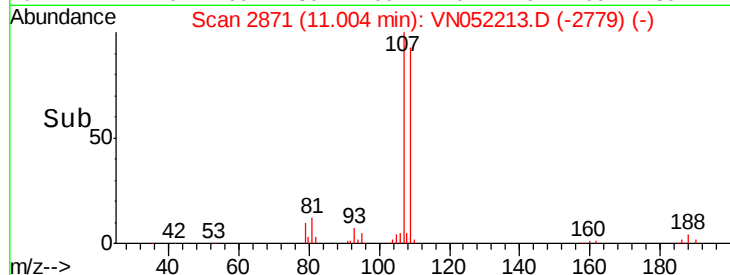
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 54.533 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

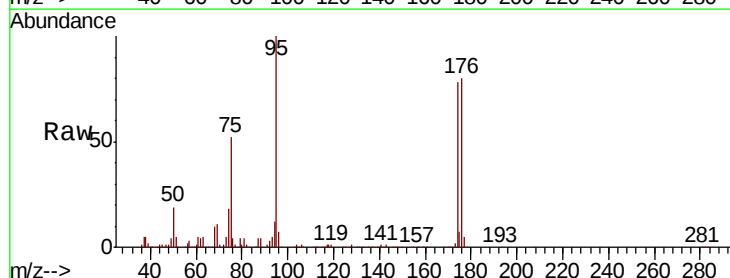
Tgt Ion: 95 Resp: 264856

Ion Ratio Lower Upper

95 100

174 81.5 0.0 162.6

176 78.8 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

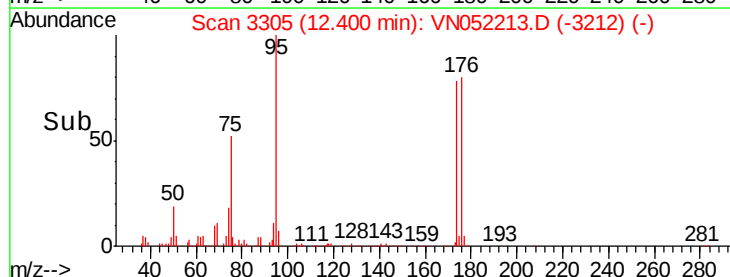
150000

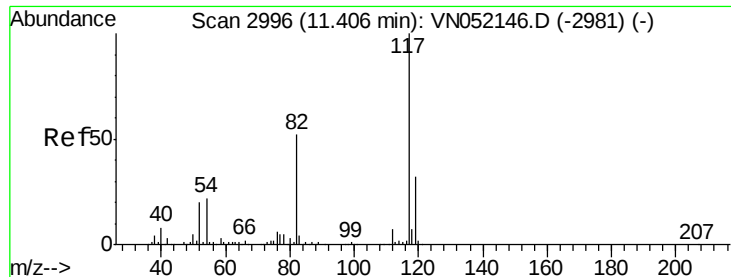
100000

50000

0

Time-->





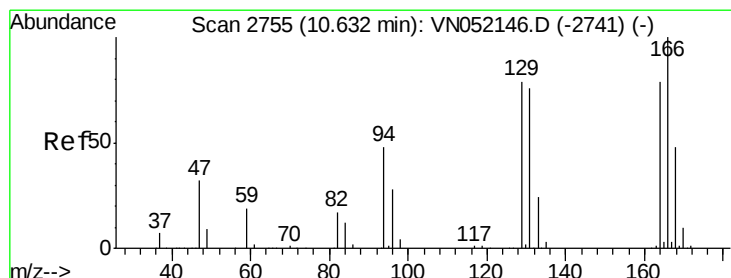
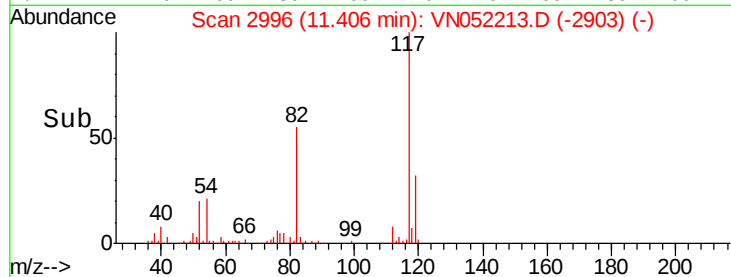
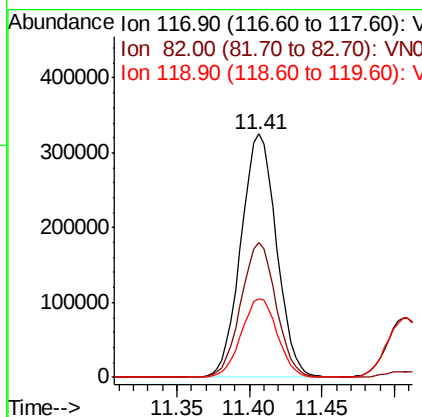
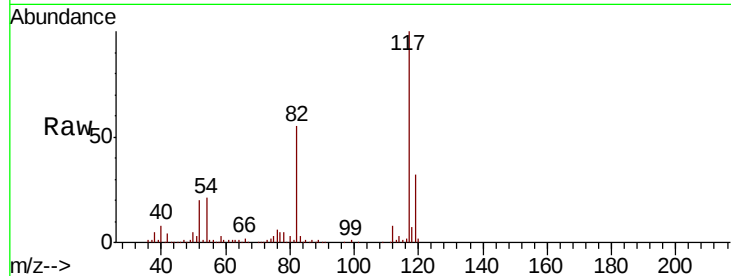
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	557310		
82	55.4		41.9	62.9
119	32.5		25.7	38.5

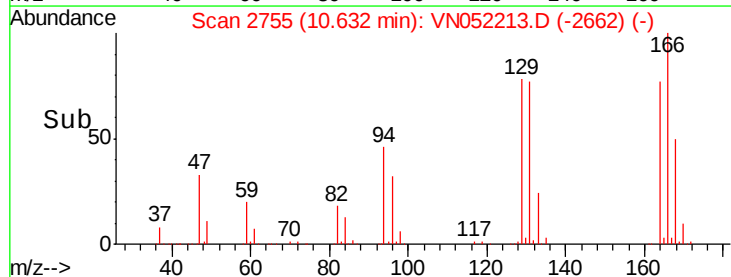
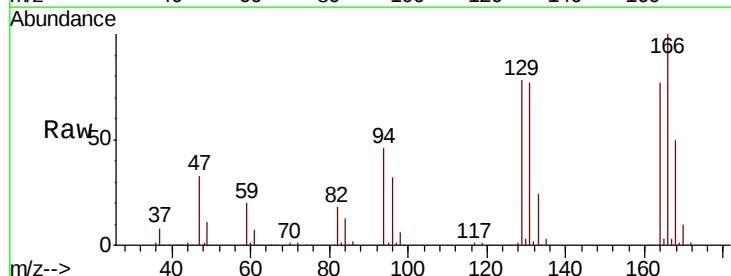
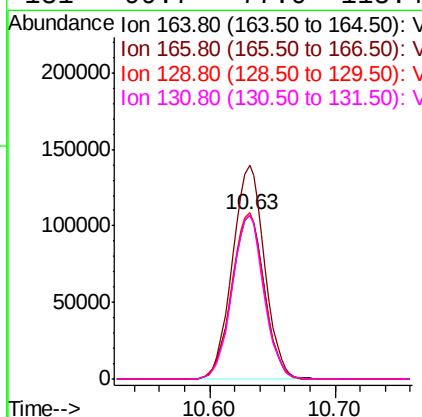
Manual Integrations
APPROVED

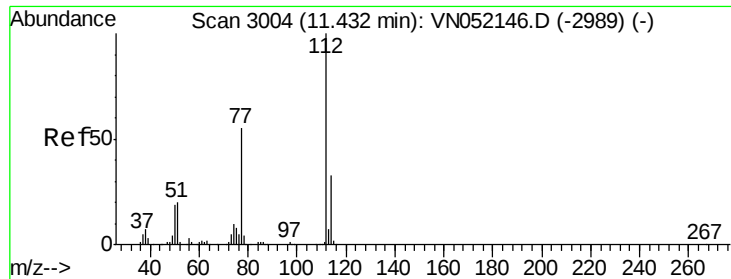
MMDadoda
11/9/2018 11:48:51 AM



#64
Tetrachloroethene
Concen: 53.537 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	193301		
166	130.1		100.8	151.2
129	101.3		79.1	118.7
131	99.7		77.0	115.4





#65

Chlorobenzene

Concen: 51.657 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 586792

Ion Ratio Lower Upper

112 100

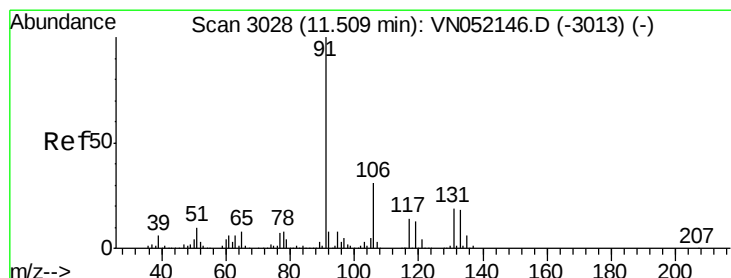
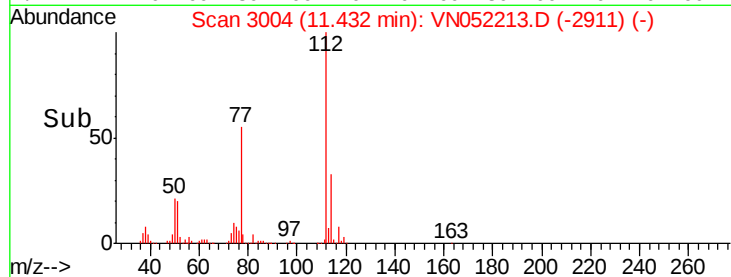
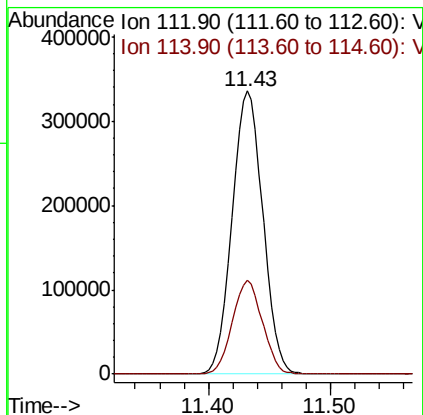
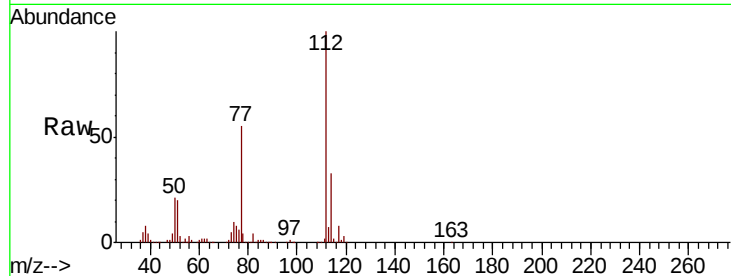
114 33.2 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 54.826 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

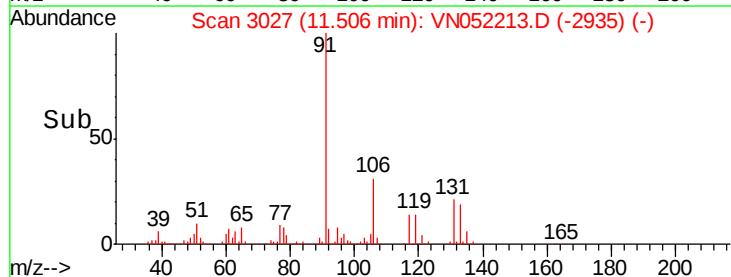
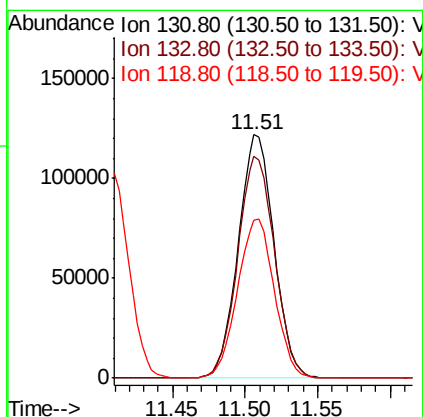
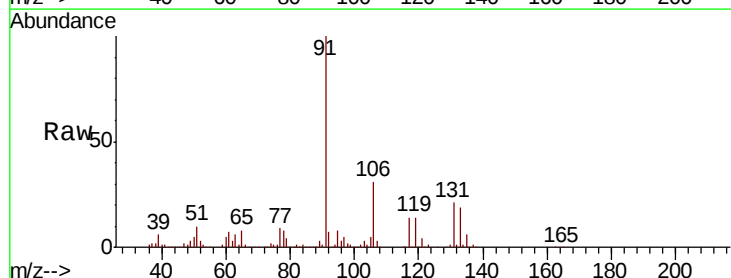
Tgt Ion:131 Resp: 209150

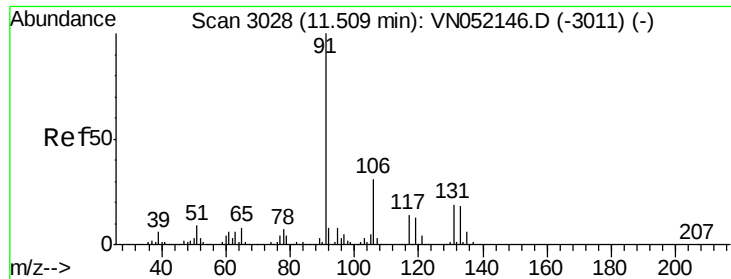
Ion Ratio Lower Upper

131 100

133 93.9 46.6 139.8

119 67.1 33.6 100.8





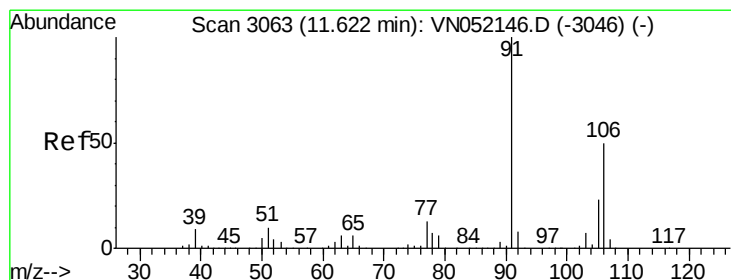
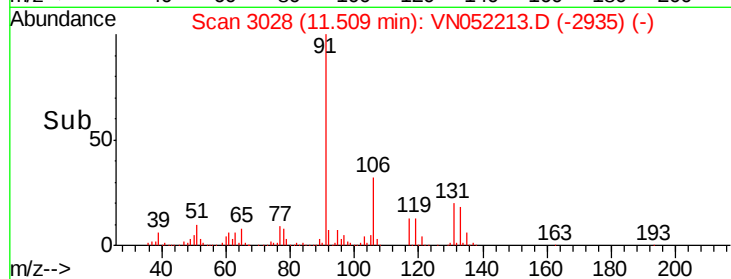
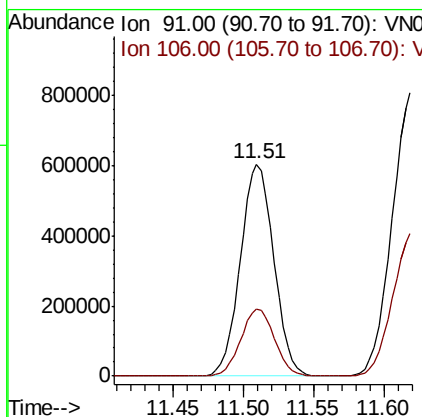
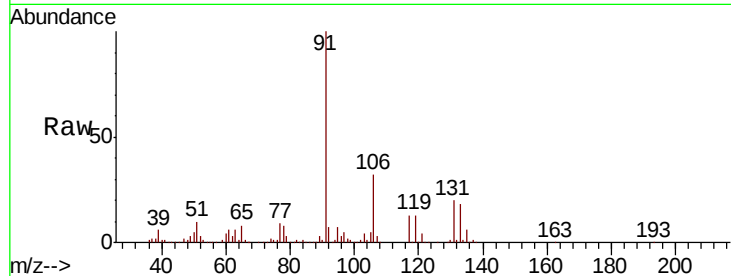
#67
Ethyl Benzene
Concen: 53.200 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 1003734
Ion Ratio Lower Upper
91 100
106 31.8 25.1 37.7

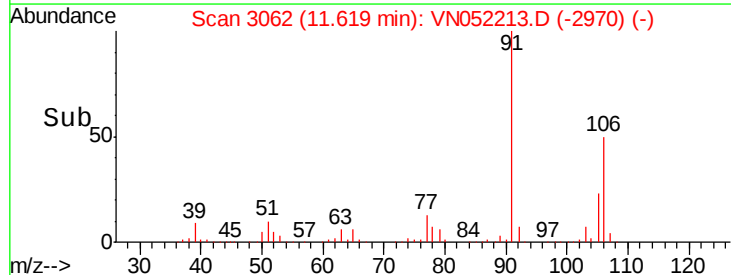
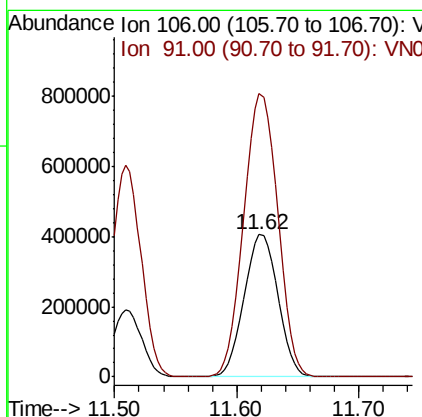
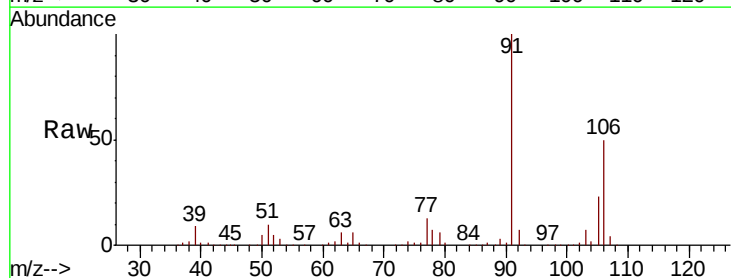
Manual Integrations
APPROVED

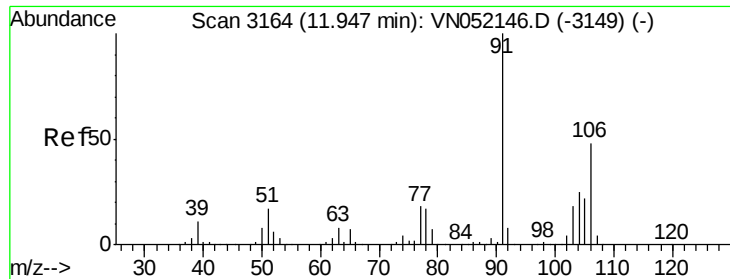
MMDadoda
11/9/2018 11:48:51 AM



#68
m/p-Xylenes
Concen: 106.806 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion: 106 Resp: 777543
Ion Ratio Lower Upper
106 100
91 200.3 158.2 237.4





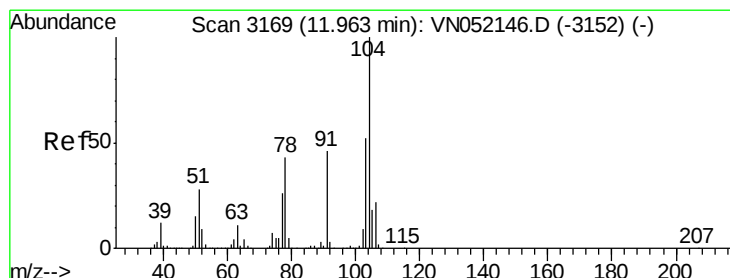
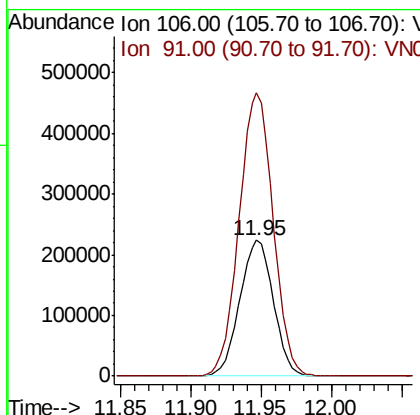
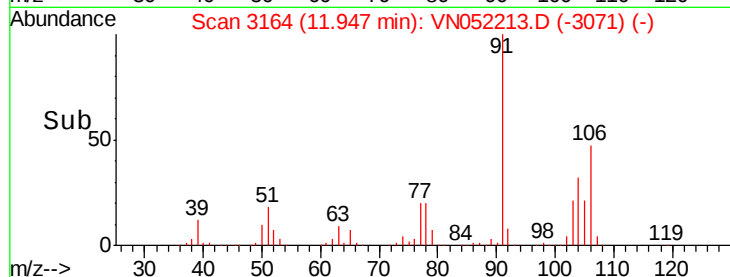
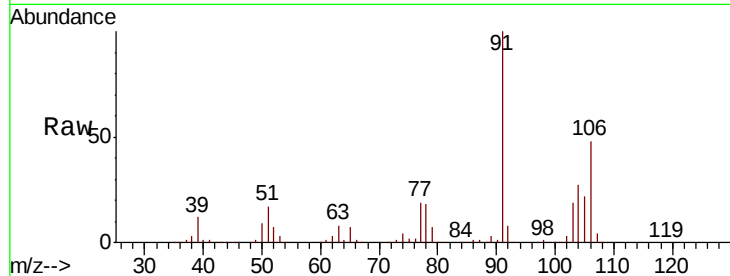
#69
o-Xylene
Concen: 52.956 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 373873
Ion Ratio Lower Upper
106 100
91 210.9 104.8 314.3

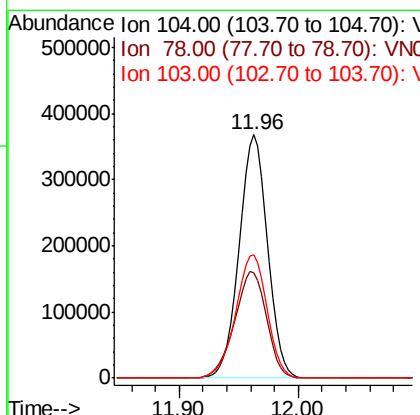
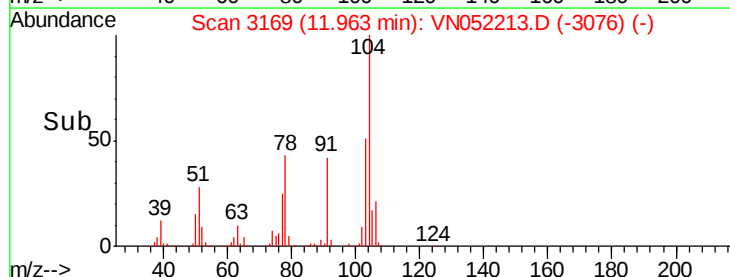
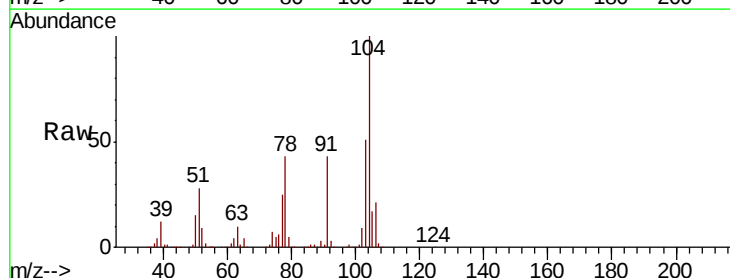
Manual Integrations
APPROVED

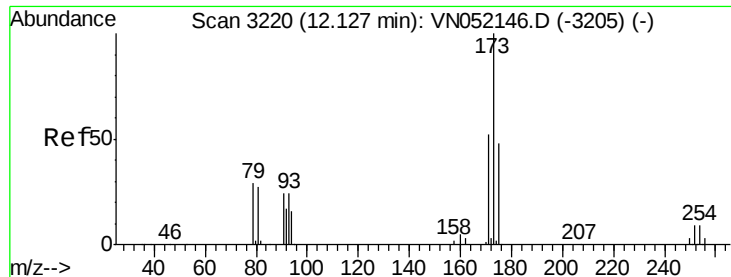
MMDadoda
11/9/2018 11:48:51 AM



#70
Styrene
Concen: 54.408 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion:104 Resp: 608085
Ion Ratio Lower Upper
104 100
78 49.4 39.4 59.0
103 56.1 45.1 67.7





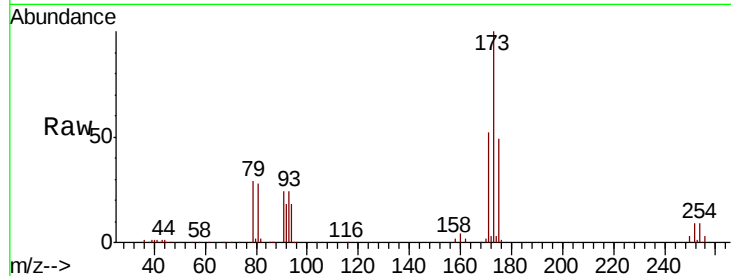
#71
Bromoform
Concen: 50.727 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.8	74.4
254	0.1	0.2	0.2#

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM

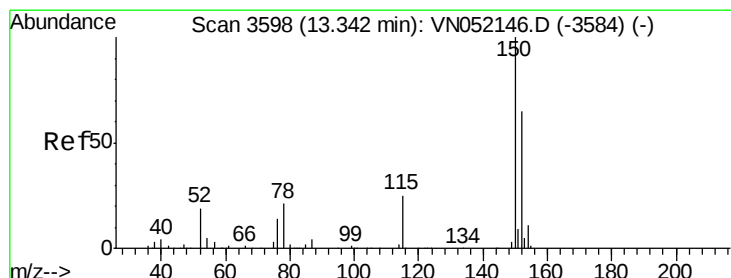
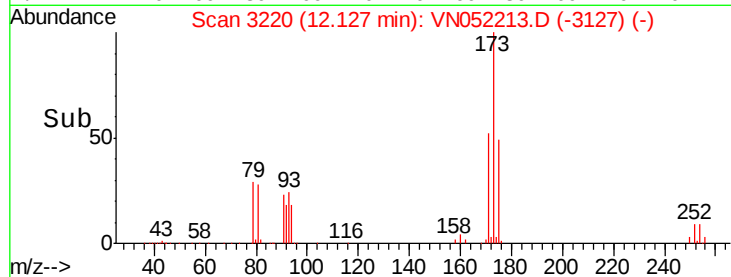
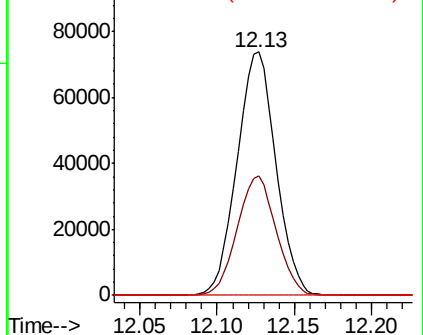


Abundance

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: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

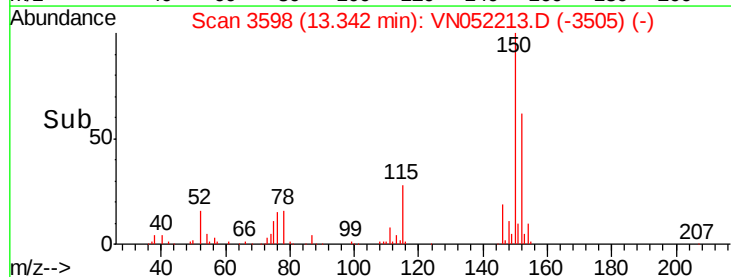
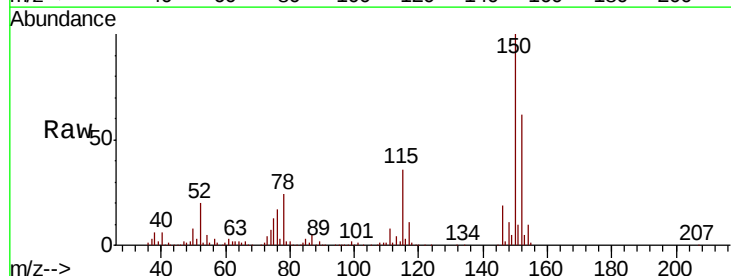
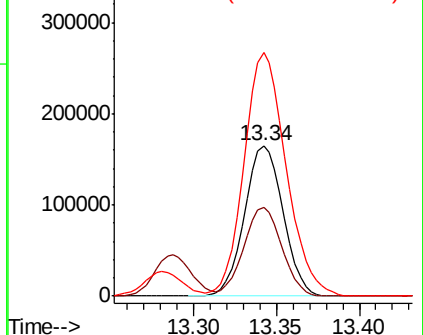
Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.5	85.5
150	176.7	0.0	348.6

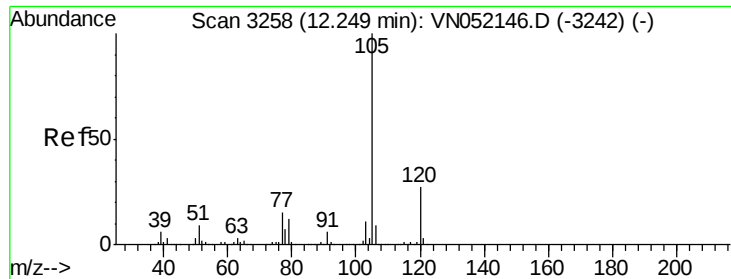
Abundance

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: 49.848 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1006146

Ion Ratio Lower Upper

105 100

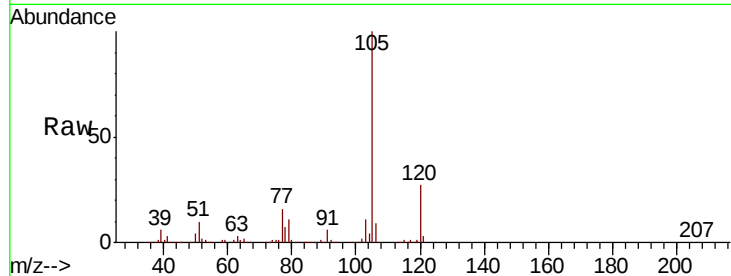
120 27.2 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

600000

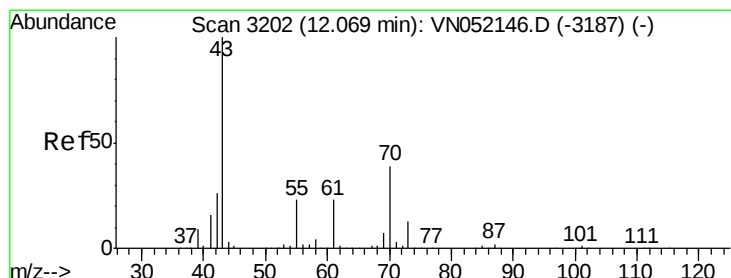
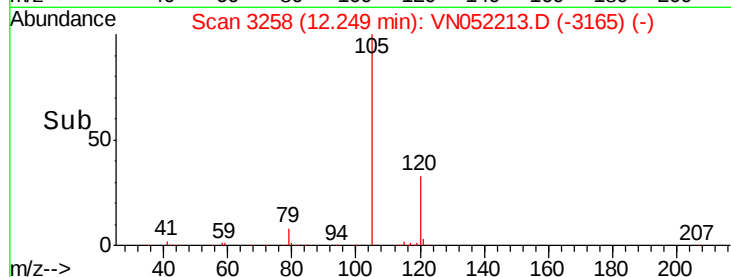
400000

200000

0

Time-->

12.20 12.30



#74

N-ethyl acetate

Concen: 52.870 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Tgt Ion: 43 Resp: 316669

Ion Ratio Lower Upper

43 100

70 38.6 31.1 46.7

55 23.0 18.5 27.7

61 22.6 18.0 27.0

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

300000

250000

200000

150000

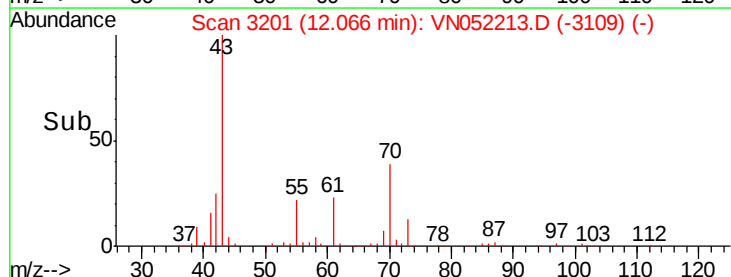
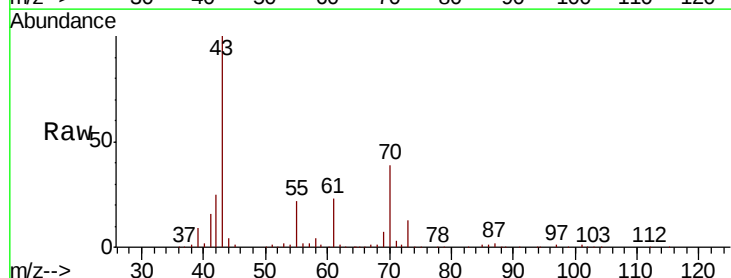
100000

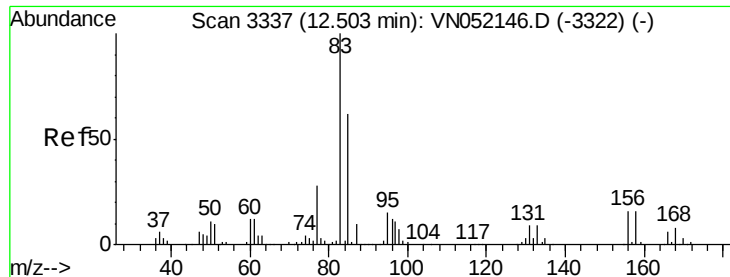
50000

0

Time-->

12.00 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 51.182 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

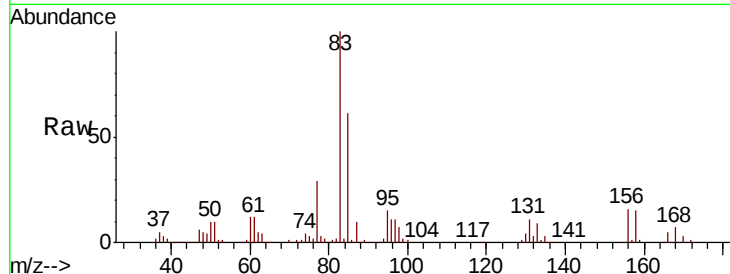
ClientSampleId :

VSTDCCC050

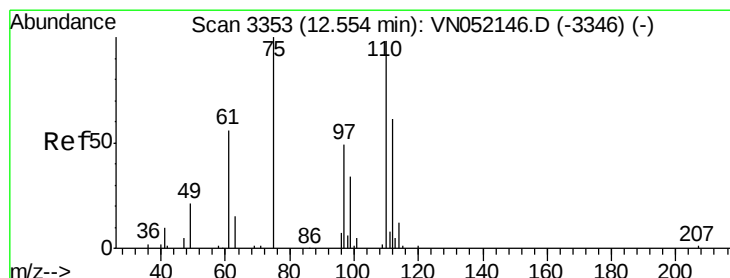
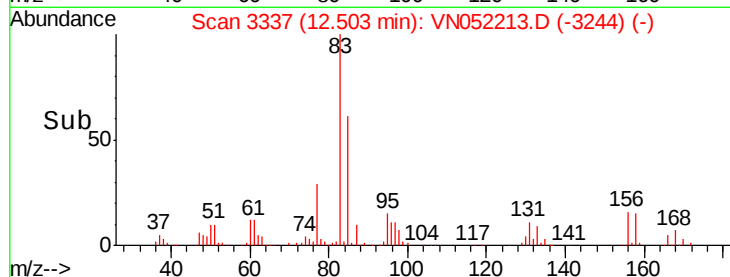
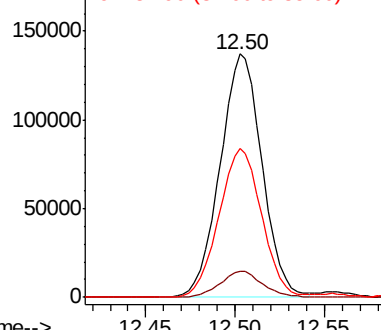
Tot Ion:	83	Resp:	226131
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.0	14.9
85	62.3	31.8	95.3

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM



Abundance Ion 82.90 (82.60 to 83.60): VN052213.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 40.527 ug/l m

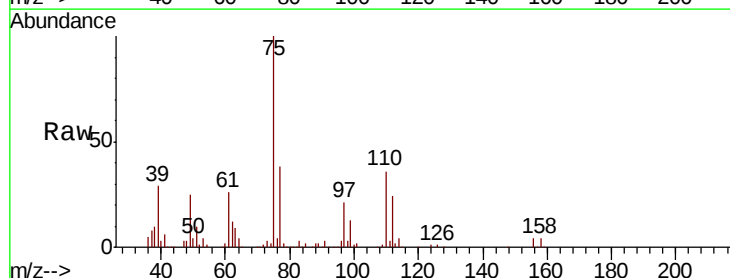
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

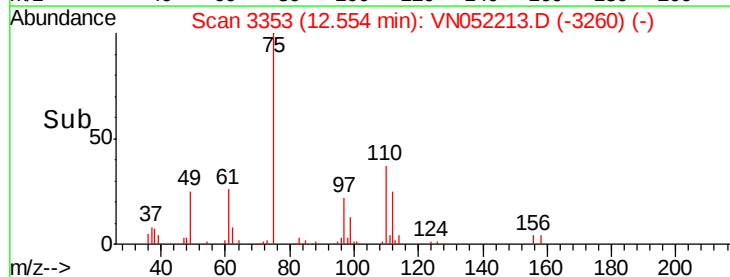
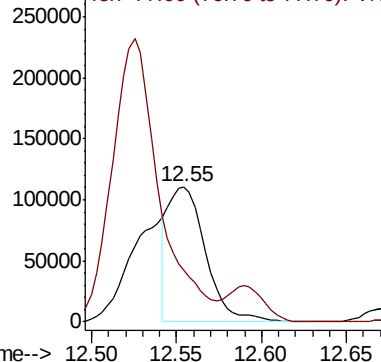
Lab File: VN052213.D

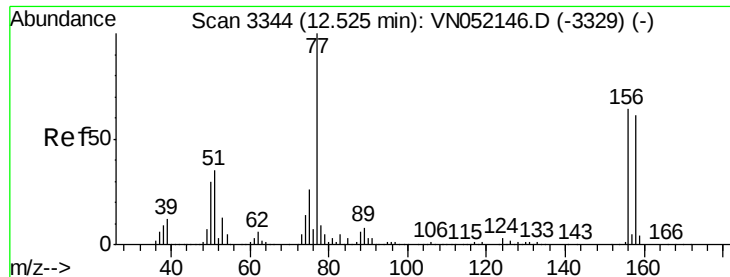
Acq: 8 Nov 2018 9:49

Tgt Ion:	75	Resp:	170260
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN052213.D (-3260) (-)





#77

Bromobenzene

Concen: 49.235 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

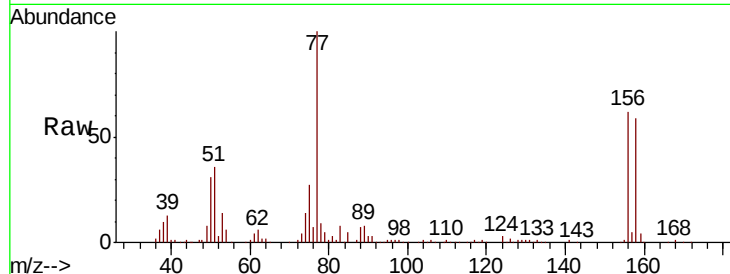
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	189.6	91.6	274.9
158	97.0	48.1	144.3

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM

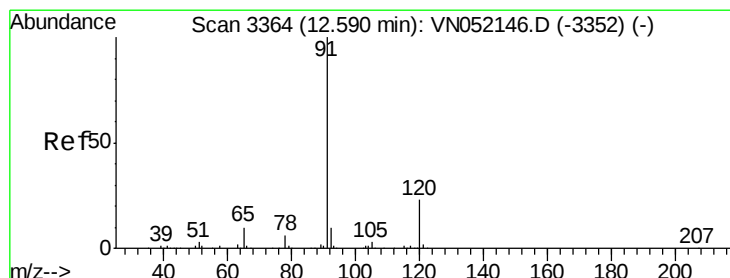
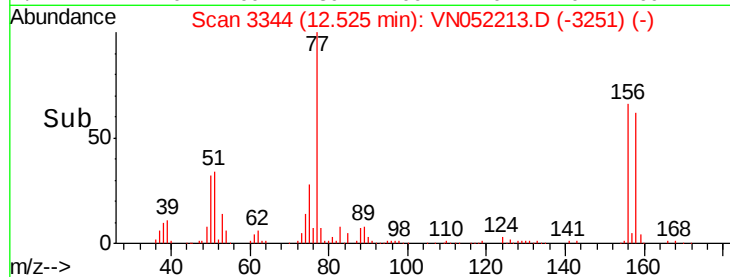
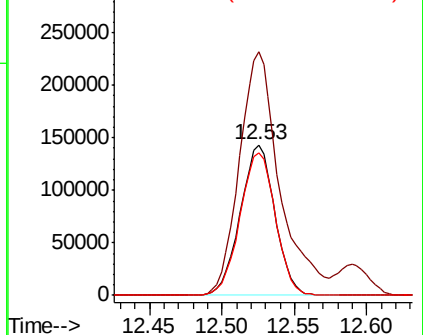


Abundance

Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 51.517 ug/l

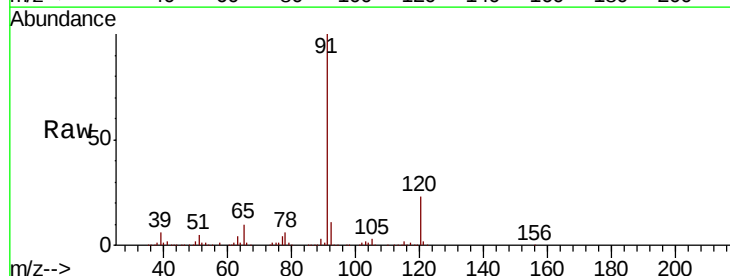
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

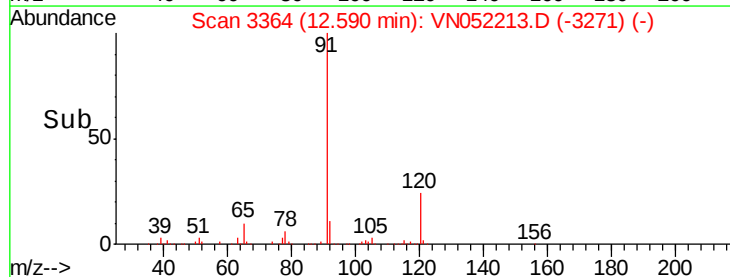
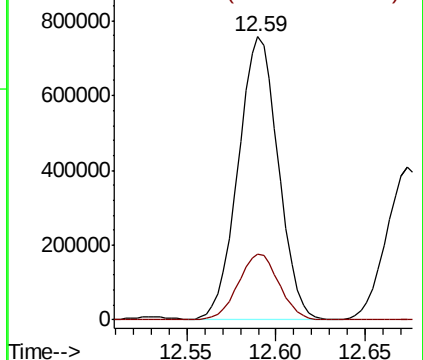
Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.9	35.7

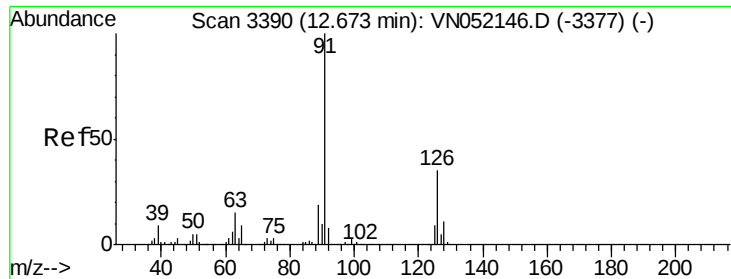


Abundance

Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.571 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 670552

Ion Ratio Lower Upper

91 100

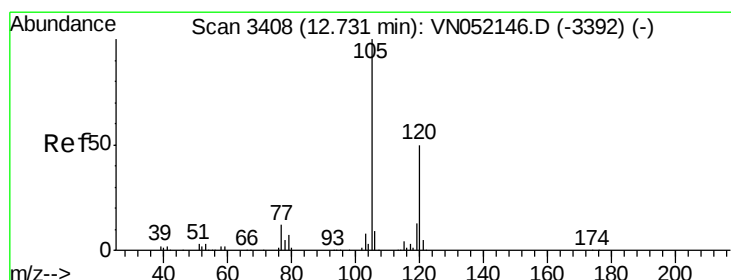
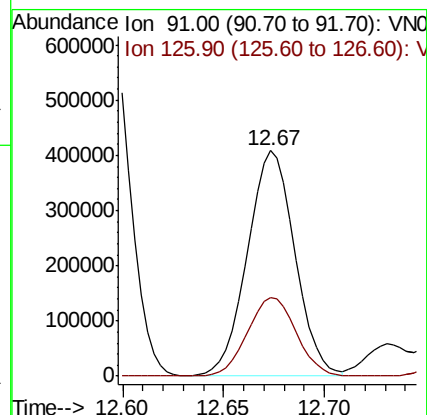
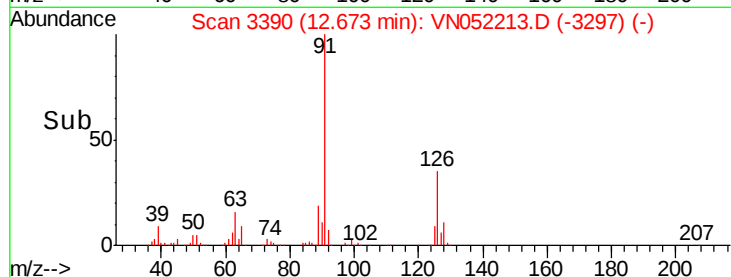
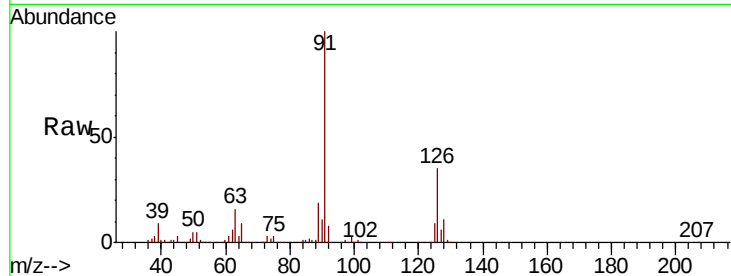
126 35.9 18.0 54.0

Manual Integrations

APPROVED

MMDadoda

11/9/2018 11:48:51 AM



#80

1,3,5-Trimethylbenzene

Concen: 50.620 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052213.D

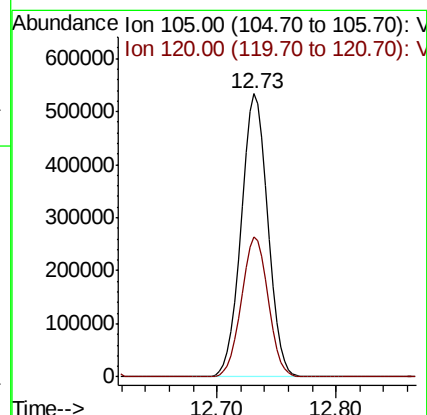
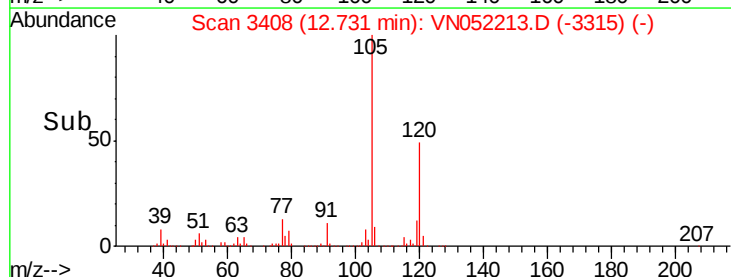
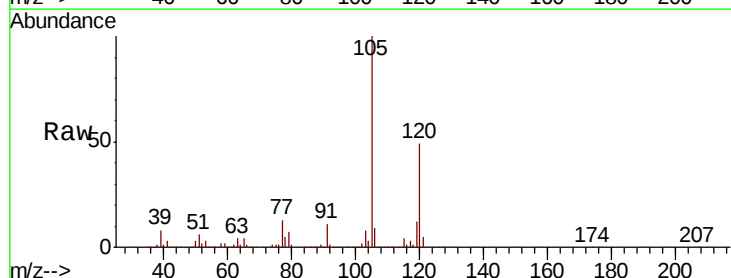
Acq: 8 Nov 2018 9:49

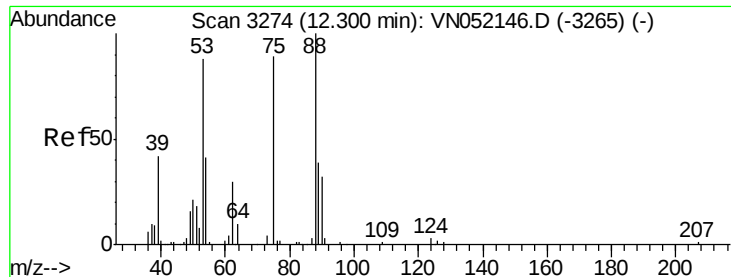
Tgt Ion: 105 Resp: 827039

Ion Ratio Lower Upper

105 100

120 49.7 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 55.401 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

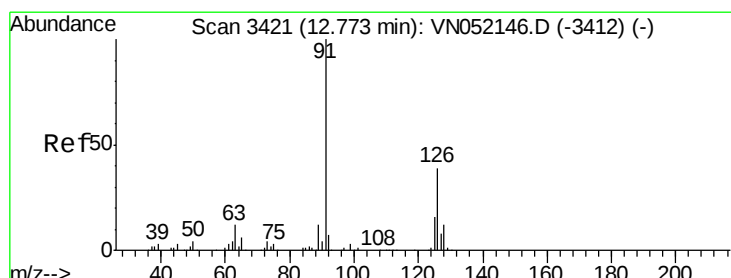
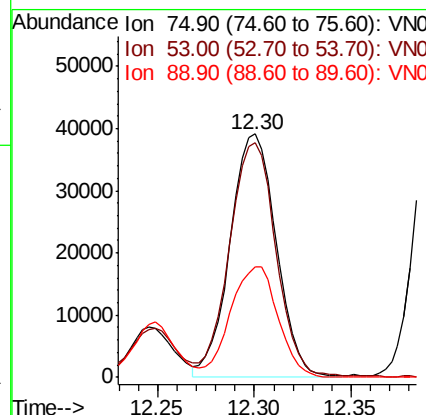
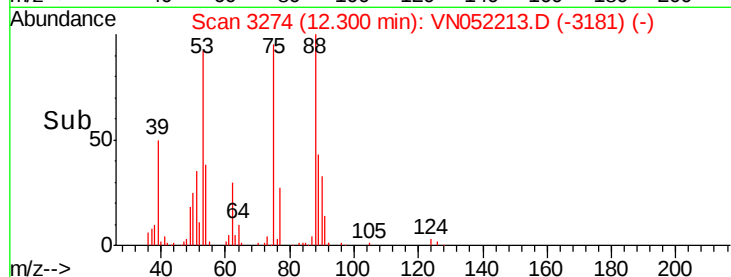
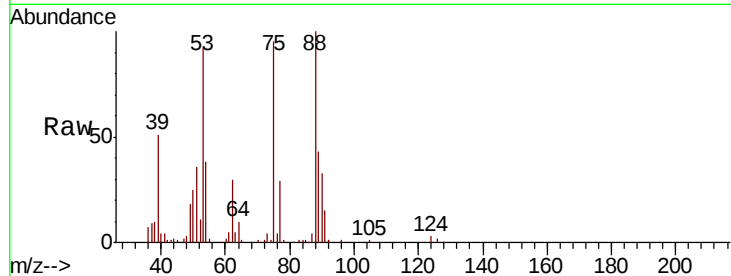
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	65001
Ion	Ratio	Lower	Upper
75	100		
53	98.0	79.4	119.0
89	46.7	35.8	53.8

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM



#82

4-Chlorotoluene

Concen: 50.473 ug/l

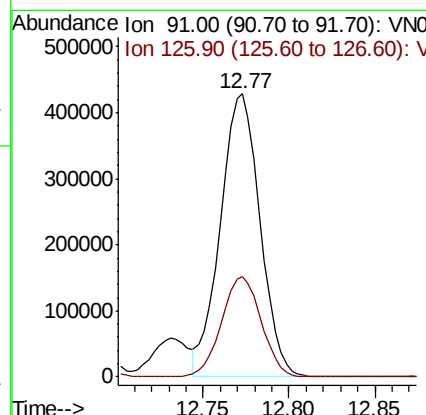
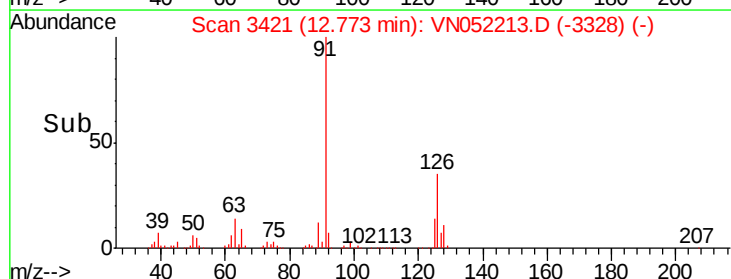
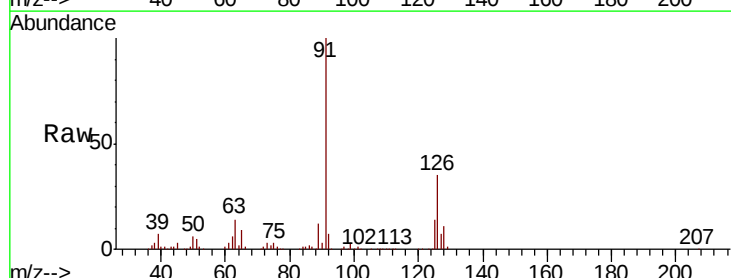
RT: 12.77 min Scan# 3421

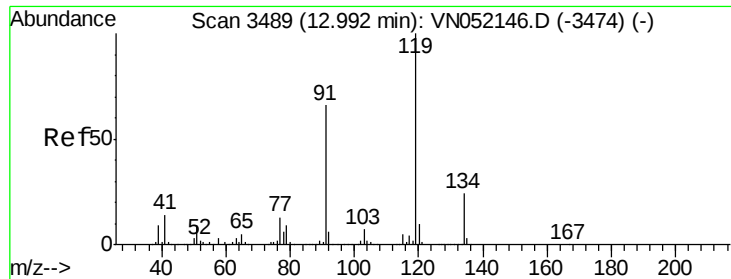
Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Tgt Ion:	91	Resp:	686228
Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.8	53.5





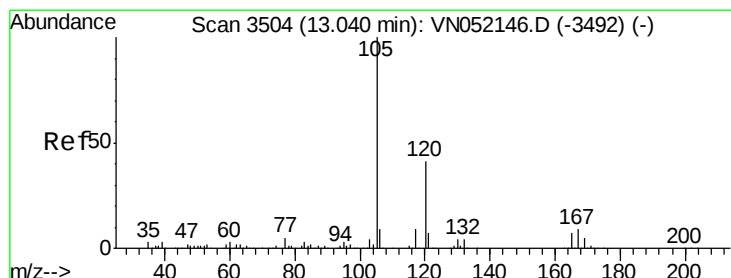
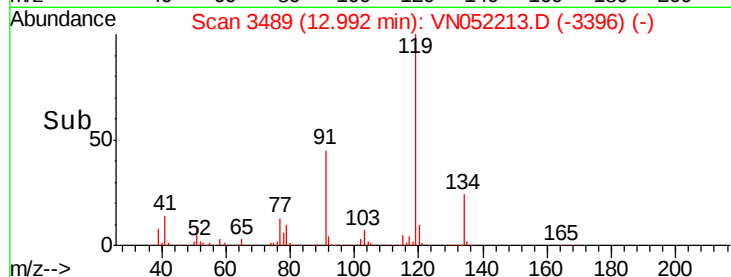
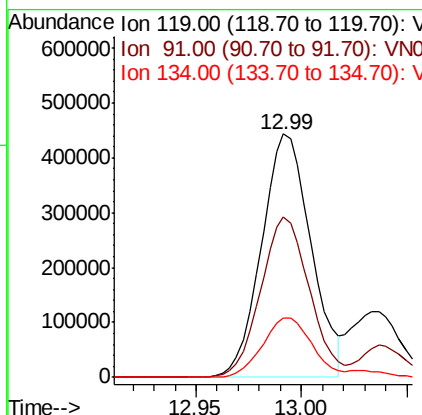
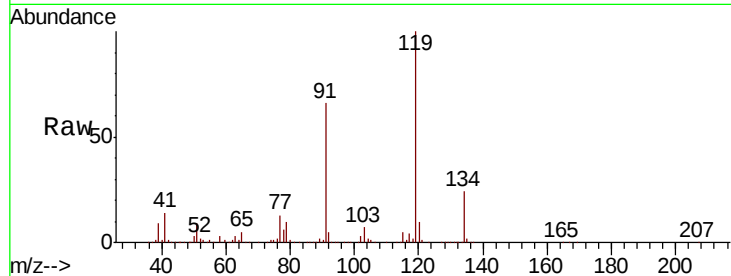
#83
tert-Butylbenzene
Concen: 50.189 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	724052		
91	64.7	32.3	96.8	
134	24.8	13.0	38.9	

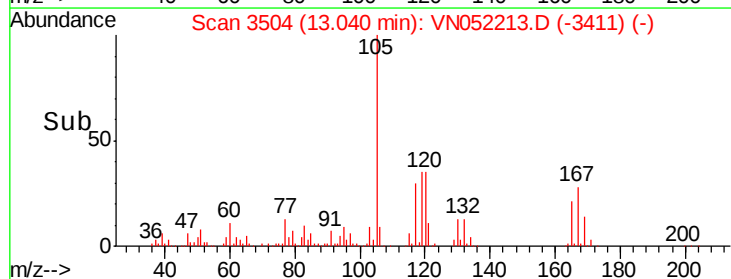
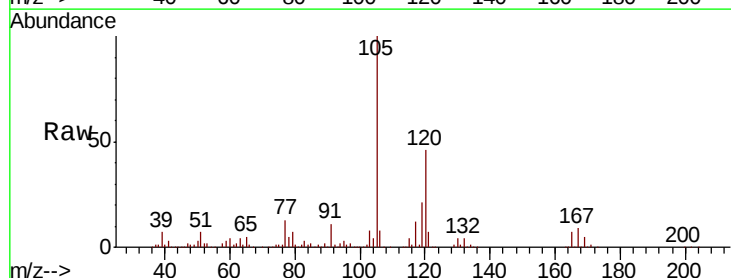
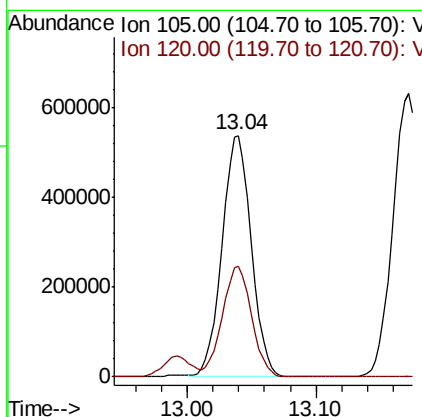
Manual Integrations
APPROVED

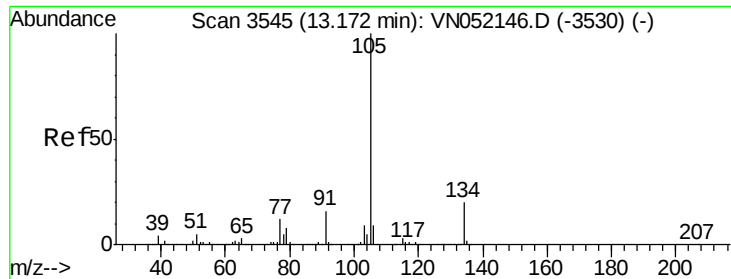
MMDadoda
11/9/2018 11:48:51 AM



#84
1,2,4-Trimethylbenzene
Concen: 51.893 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	843965		
120	45.9	23.2	69.5	





#85

sec-Butylbenzene

Concen: 51.567 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1005941

Ion Ratio Lower Upper

105 100

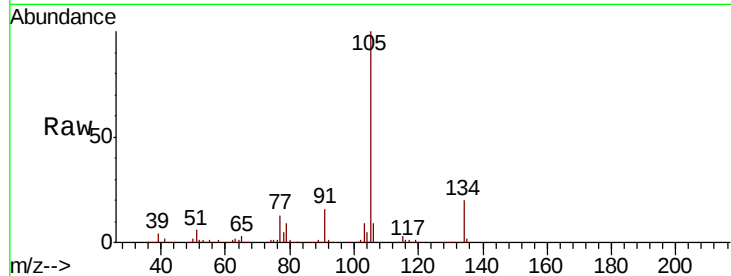
134 20.3 10.2 30.4

Manual Integrations

APPROVED

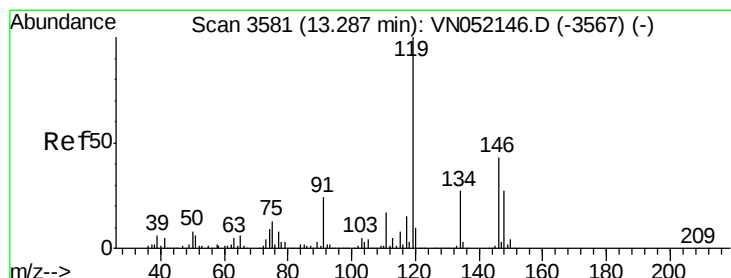
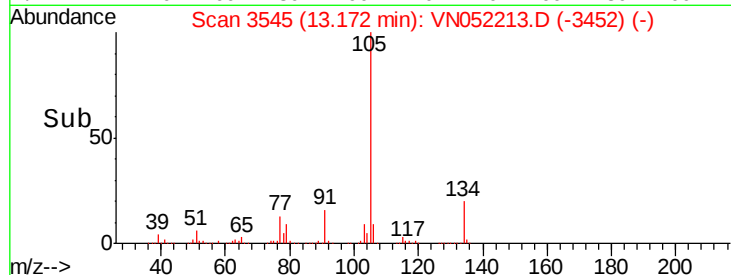
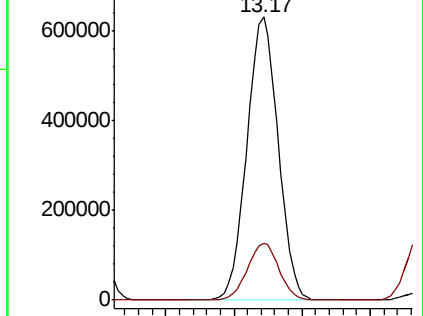
MMDadoda

11/9/2018 11:48:51 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 53.098 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN052213.D

Acq: 8 Nov 2018 9:49

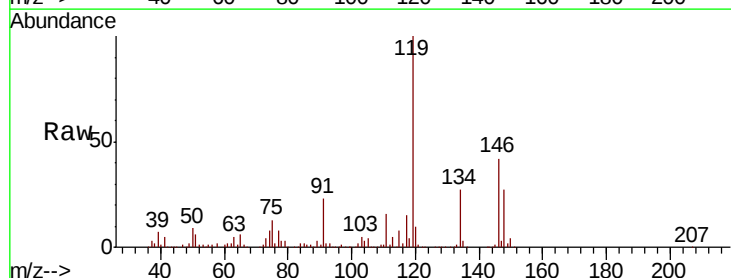
Tgt Ion:119 Resp: 871828

Ion Ratio Lower Upper

119 100

134 26.9 13.5 40.5

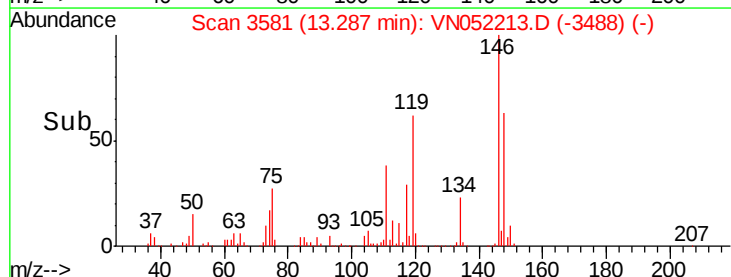
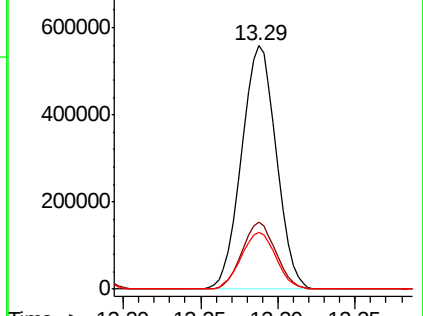
91 23.5 11.9 35.7

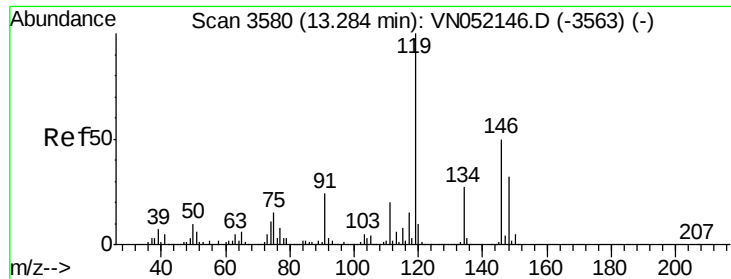


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





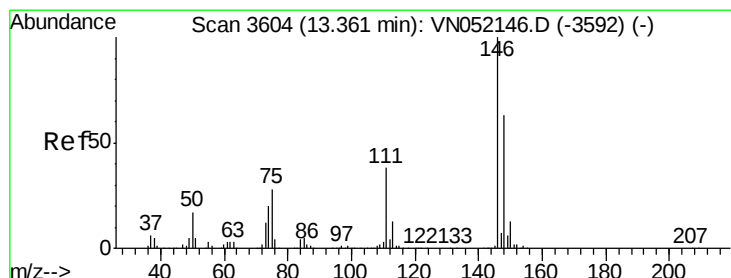
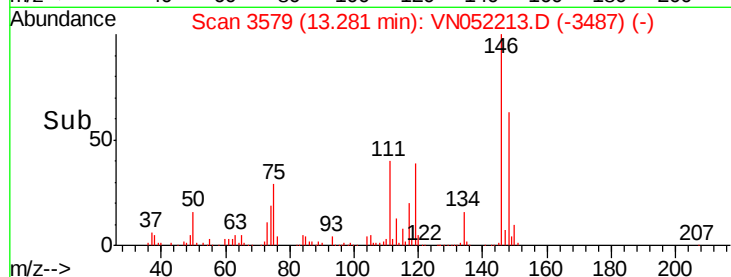
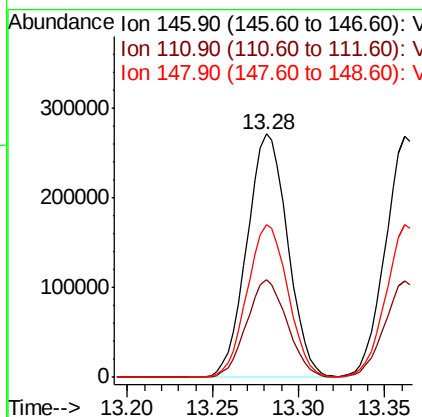
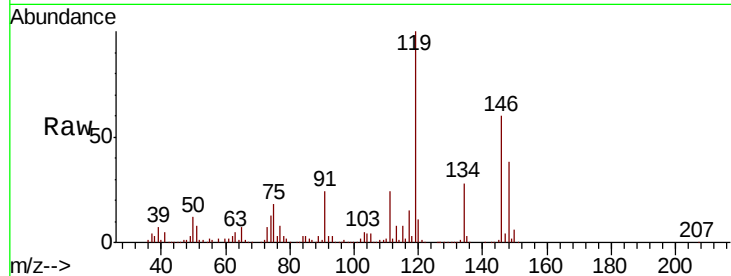
#87
 1,3-Dichlorobenzene
 Concen: 52.495 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.2	60.6
148	62.9	32.1	96.3

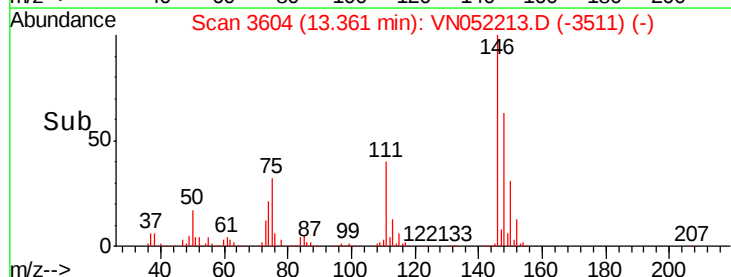
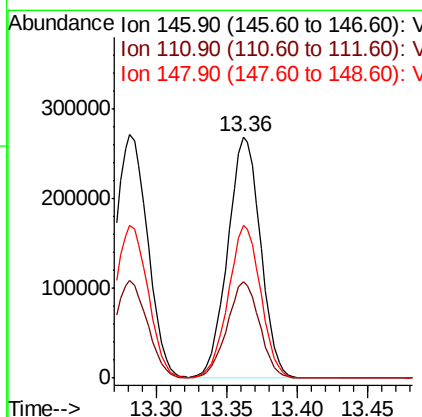
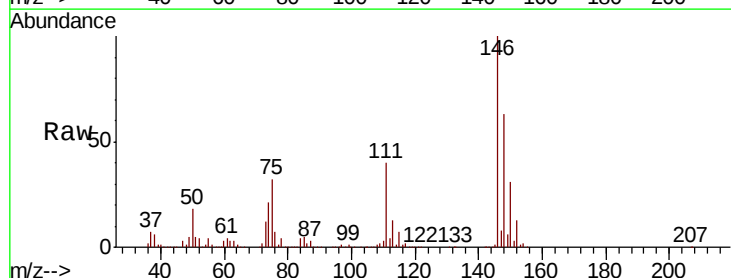
Manual Integrations
 APPROVED

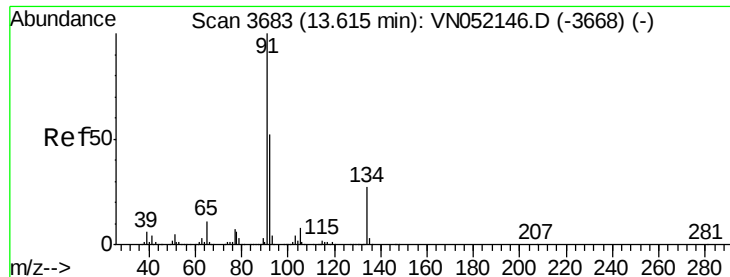
MMDadoda
 11/9/2018 11:48:51 AM



#88
 1,4-Dichlorobenzene
 Concen: 51.443 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.4	58.1
148	62.6	31.5	94.5





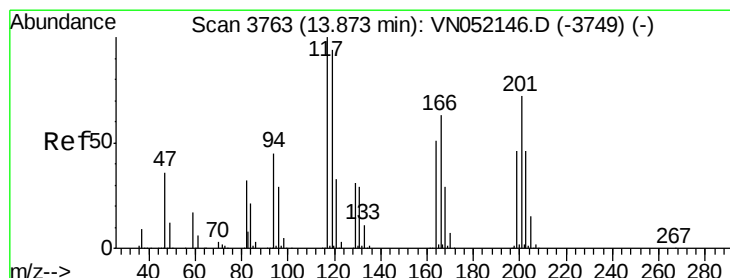
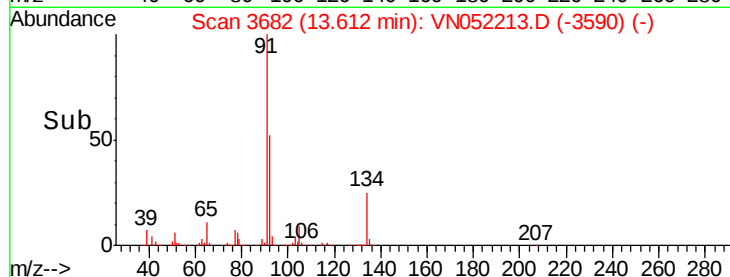
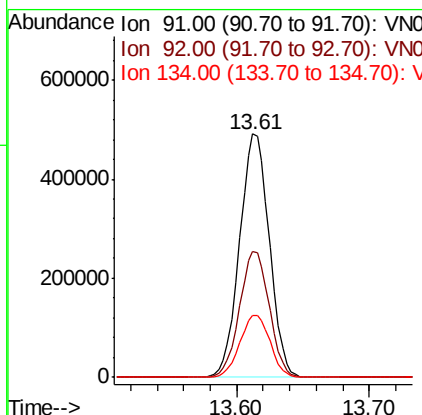
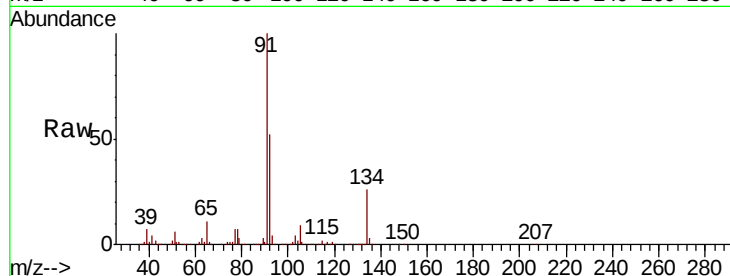
#89
n-Butylbenzene
Concen: 53.716 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.3	78.8
134	25.9	13.4	40.2

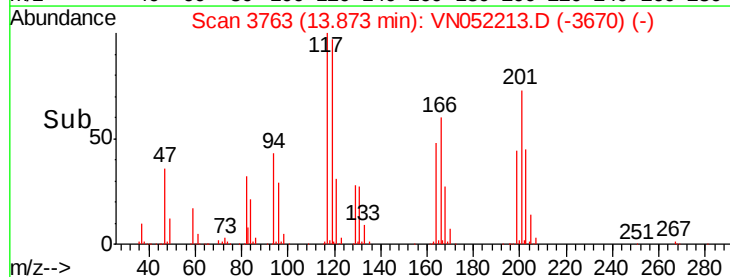
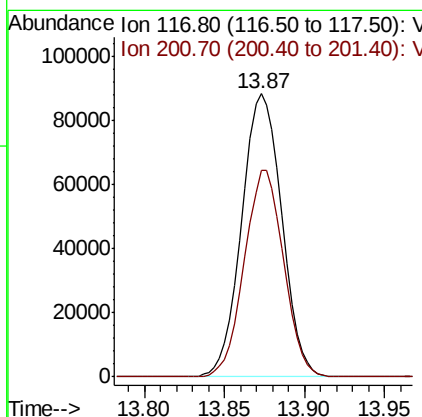
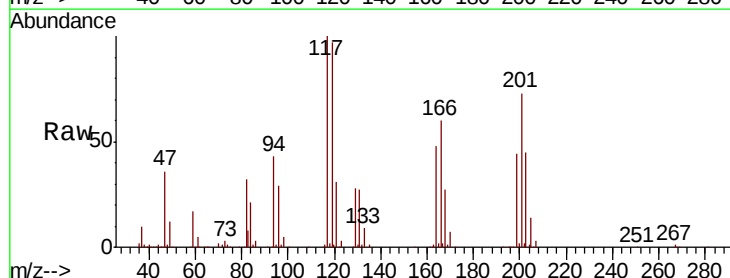
Manual Integrations
APPROVED

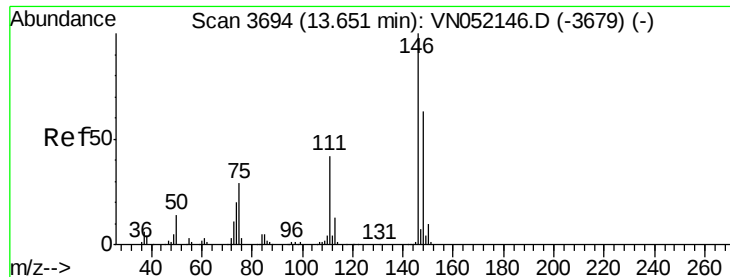
MMDadoda
11/9/2018 11:48:51 AM



#90
Hexachloroethane
Concen: 54.553 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
117	100		
201	71.5	36.8	110.3





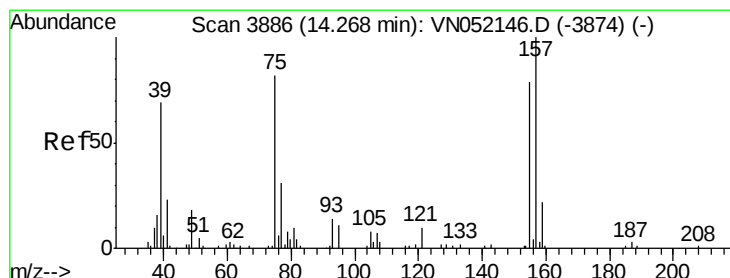
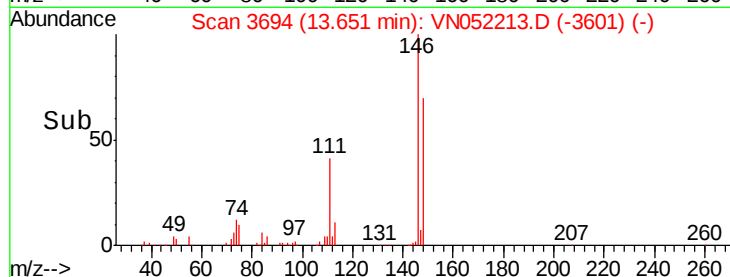
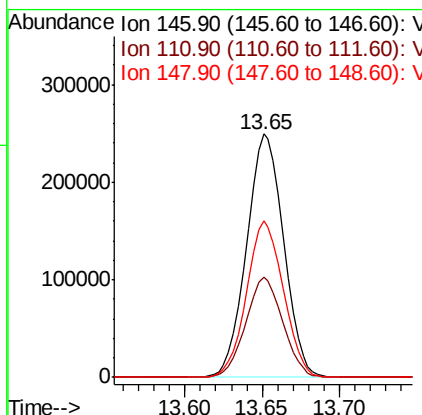
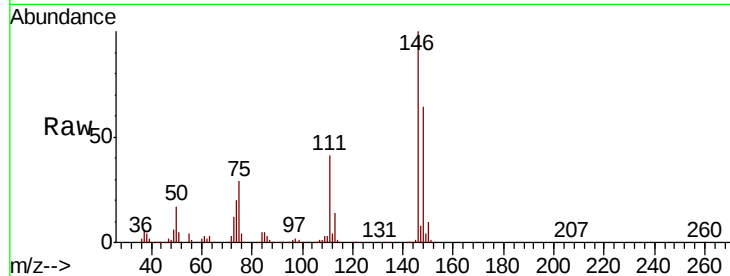
#91
 1,2-Dichlorobenzene
 Concen: 52.127 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	21.1	63.1
148	63.9	31.4	94.3

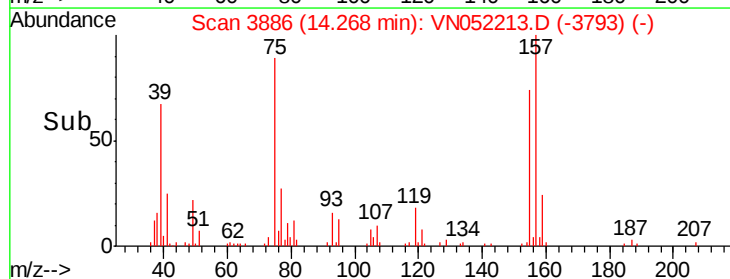
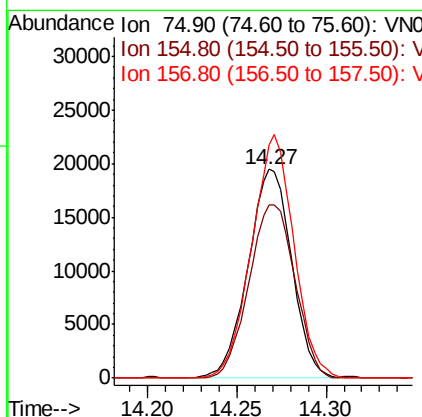
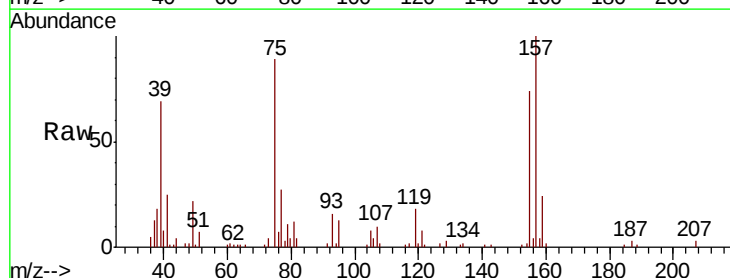
Manual Integrations
 APPROVED

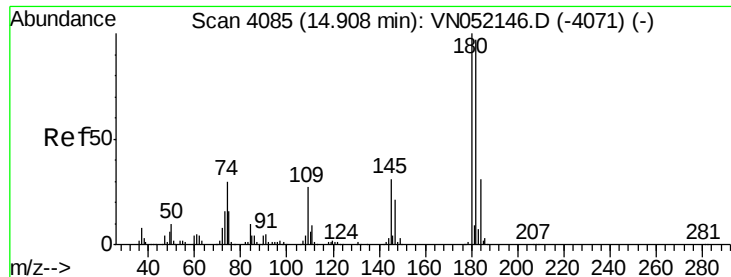
MMDadoda
 11/9/2018 11:48:51 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 57.100 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.2	47.4	142.2
157	113.1	60.3	180.8





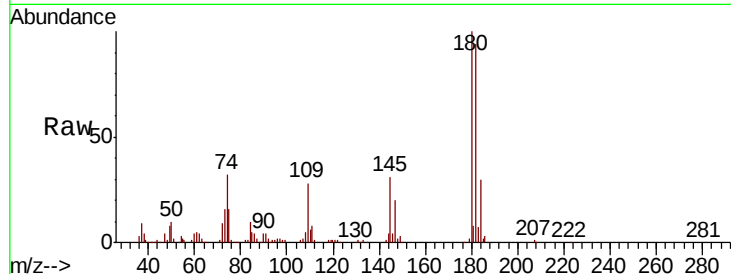
#93
 1,2,4-Trichlorobenzene
 Concen: 51.048 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	192366		
182	94.3	48.1	144.4	
145	30.1	15.3	45.9	

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 11:48:51 AM

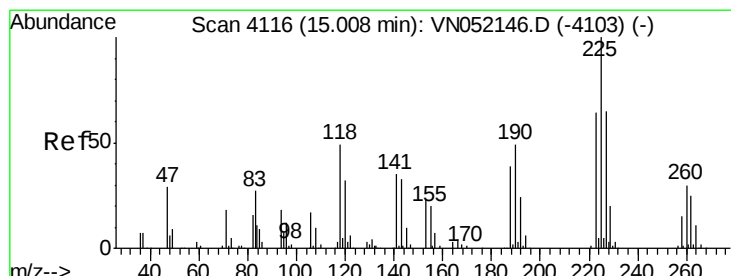
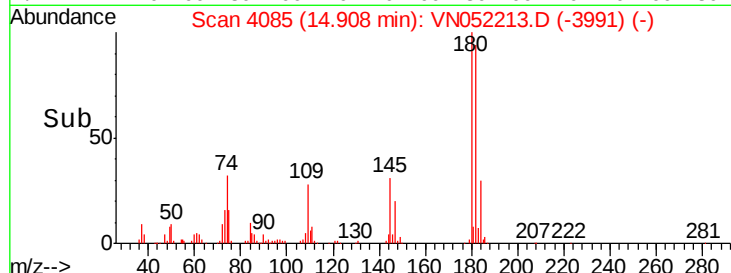
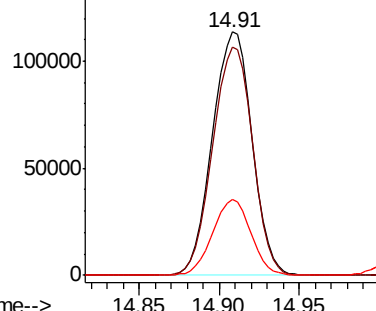


Abundance

Ion 179.80 (179.50 to 180.50): V

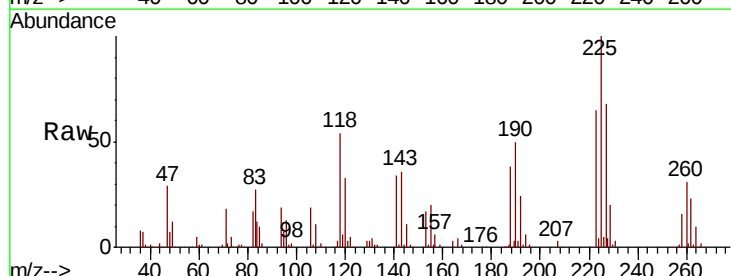
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 52.834 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN052213.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	99072		
223	62.8	32.3	96.8	
227	64.5	31.6	94.8	

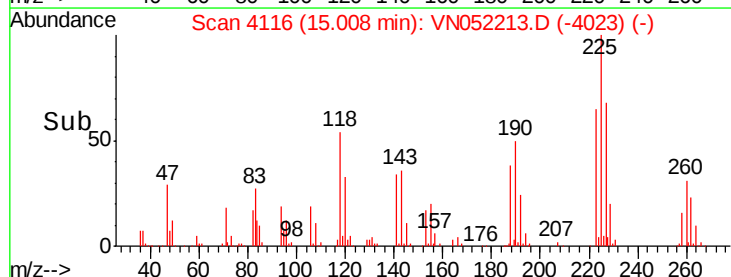
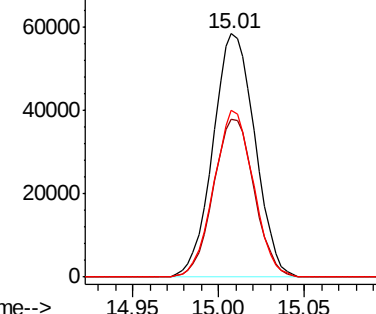


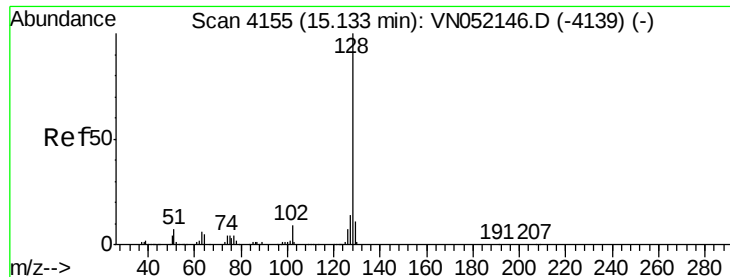
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





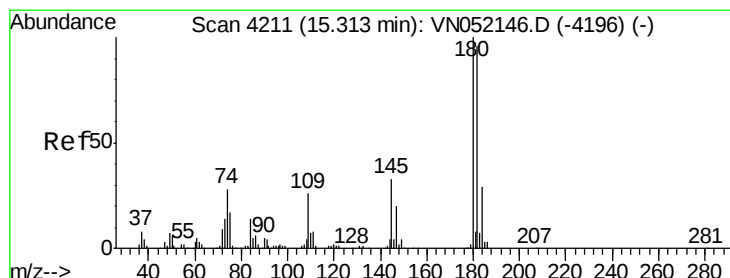
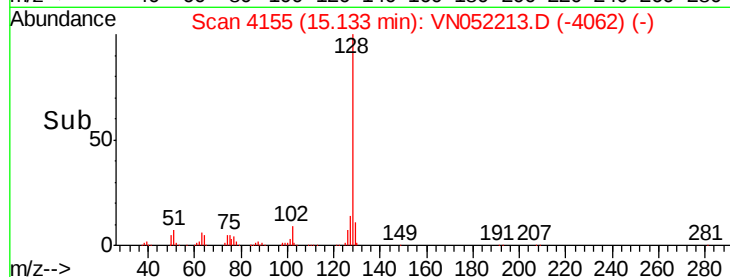
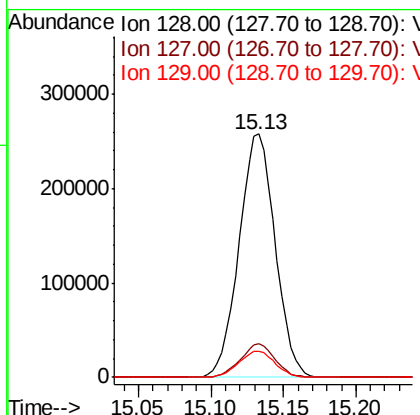
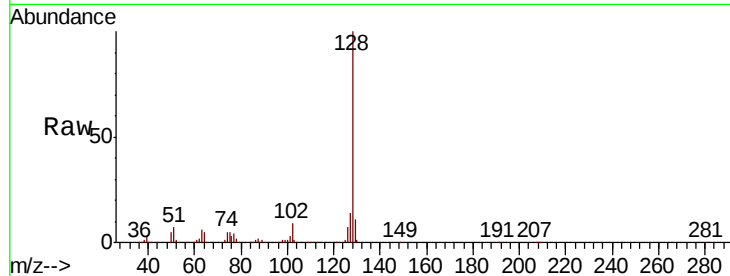
#95
Naphthalene
Concen: 54.589 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.8	16.2
129	10.8	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
11/9/2018 11:48:51 AM



#96
1,2,3-Trichlorobenzene
Concen: 52.783 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN052213.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.6	139.7
145	31.6	16.7	50.0

