

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022519\
 Data File : VN053944.D
 Acq On : 25 Feb 2019 21:50
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 10:48:44 AM

Quant Time: Feb 28 05:06:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	631363	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1044741	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	915255	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	426743	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	379346	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
35) Dibromofluoromethane	7.59	113	335539	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	10.09	98	1242750	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	12.40	95	414166	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	286970	49.387	ug/l	99
3) Chloromethane	2.06	50	411140	51.011	ug/l	100
4) Vinyl Chloride	2.18	62	407764	50.494	ug/l	98
5) Bromomethane	2.57	94	249716	46.692	ug/l	99
6) Chloroethane	2.71	64	246427	49.066	ug/l	99
7) Trichlorofluoromethane	3.02	101	511197	49.551	ug/l	99
8) Diethyl Ether	3.41	74	198728	51.415	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	310030	47.582	ug/l	94
10) Methyl Iodide	3.95	142	463237	54.106	ug/l	98
11) Tert butyl alcohol	4.78	59	119207	254.076	ug/l	98
12) 1,1-Dichloroethene	3.74	96	307824	49.390	ug/l	93
13) Acrolein	3.61	56	125957	259.299	ug/l	100
14) Allyl chloride	4.32	41	561918	51.404	ug/l	95
15) Acrylonitrile	4.99	53	649063	262.481	ug/l	100
16) Acetone	3.81	43	441044	223.852	ug/l	95
17) Carbon Disulfide	4.05	76	969530	48.220	ug/l	99
18) Methyl Acetate	4.32	43	266621	51.520	ug/l	93
19) Methyl tert-butyl Ether	5.04	73	873294	52.233	ug/l	99
20) Methylene Chloride	4.55	84	356125	48.618	ug/l	90
21) trans-1,2-Dichloroethene	5.04	96	336758	49.922	ug/l	93
22) Diisopropyl ether	5.95	45	1140058	54.060	ug/l	97
23) Vinyl Acetate	5.89	43	4125216	271.917	ug/l	96
24) 1,1-Dichloroethane	5.85	63	657243	50.821	ug/l	99
25) 2-Butanone	6.83	43	725490	249.653	ug/l	96
26) 2,2-Dichloropropane	6.82	77	426819	46.454	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	387104	51.600	ug/l	96
28) Bromochloromethane	7.19	49	313333	52.932	ug/l	82
29) Tetrahydrofuran	7.21	42	503433	260.146	ug/l	93
30) Chloroform	7.37	83	630784	50.302	ug/l	100
31) Cyclohexane	7.65	56	608064	51.389	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	527270	50.995	ug/l	97
36) 1,1-Dichloropropene	7.79	75	481603	49.569	ug/l	98
37) Ethyl Acetate	6.93	43	333021	48.004	ug/l	98
38) Carbon Tetrachloride	7.77	117	458660	45.391	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022519\
 Data File : VN053944.D
 Acq On : 25 Feb 2019 21:50
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 10:48:44 AM

Quant Time: Feb 28 05:06:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	558111	47.660	ug/l	95
40) Benzene	8.04	78	1479030	49.554	ug/l	100
41) Methacrylonitrile	7.17	41	183727	41.129	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	460742	49.861	ug/l	97
43) Isopropyl Acetate	8.16	43	584361	49.889	ug/l #	90
44) Trichloroethene	8.83	130	383526	48.469	ug/l	95
45) 1,2-Dichloropropane	9.12	63	395119	49.067	ug/l	98
46) Dibromomethane	9.21	93	230882	49.387	ug/l	93
47) Bromodichloromethane	9.40	83	483385	49.064	ug/l	100
48) Methyl methacrylate	9.20	41	280670	52.094	ug/l	94
49) 1,4-Dioxane	9.20	88	75228	1030.899	ug/l #	95
51) 4-Methyl-2-Pentanone	9.98	43	1575499	261.752	ug/l	96
52) Toluene	10.16	92	874425	49.754	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	487396	50.844	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	565498	50.040	ug/l	95
55) 1,1,2-Trichloroethane	10.56	97	320946	48.898	ug/l	99
56) Ethyl methacrylate	10.43	69	407009	47.398	ug/l	90
57) 1,3-Dichloropropane	10.71	76	558118	50.326	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	951848	238.236	ug/l	95
59) 2-Hexanone	10.75	43	1006494	257.107	ug/l	93
60) Dibromochloromethane	10.90	129	361912	49.614	ug/l	98
61) 1,2-Dibromoethane	11.01	107	310168	48.988	ug/l	99
64) Tetrachloroethene	10.63	164	371883	47.984	ug/l	96
65) Chlorobenzene	11.43	112	929053	48.097	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	345231	49.591	ug/l	99
67) Ethyl Benzene	11.51	91	1619554	50.014	ug/l	99
68) m/p-Xylenes	11.62	106	1239841	101.445	ug/l	97
69) o-Xylene	11.95	106	602400	50.163	ug/l	99
70) Styrene	11.96	104	969331	52.479	ug/l	99
71) Bromoform	12.13	173	236985	48.932	ug/l #	100
73) Isopropylbenzene	12.25	105	1568087	47.204	ug/l	99
74) N-amyl acetate	12.07	43	450218	51.710	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	385005	46.347	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	292060m	42.663	ug/l	
77) Bromobenzene	12.53	156	394917	46.824	ug/l	90
78) n-propylbenzene	12.59	91	1827870	48.383	ug/l	98
79) 2-Chlorotoluene	12.67	91	1082761	47.710	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	1320836	48.568	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	101868	47.032	ug/l	92
82) 4-Chlorotoluene	12.77	91	1091525	48.664	ug/l	96
83) tert-Butylbenzene	12.99	119	1163608	48.378	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1342962	49.464	ug/l	99
85) sec-Butylbenzene	13.17	105	1575817	47.968	ug/l	98
86) p-Isopropyltoluene	13.29	119	1350708	48.635	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	699602	47.950	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	682567	48.221	ug/l	99
89) n-Butylbenzene	13.62	91	1160373	49.577	ug/l	99
90) Hexachloroethane	13.87	117	246176	45.743	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	681802	48.275	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	57209	48.733	ug/l	90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022519\
Data File : VN053944.D
Acq On : 25 Feb 2019 21:50
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

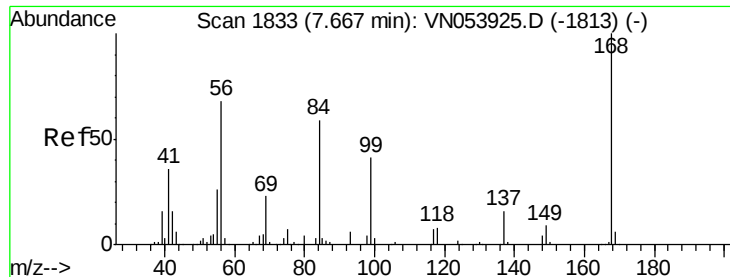
Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM

Quant Time: Feb 28 05:06:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 28 04:05:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	363339	46.486	ug/l	98
94) Hexachlorobutadiene	15.01	225	235662	46.192	ug/l	99
95) Naphthalene	15.13	128	759222	45.258	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	353116	47.029	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 631363

Ion Ratio Lower Upper

168 100

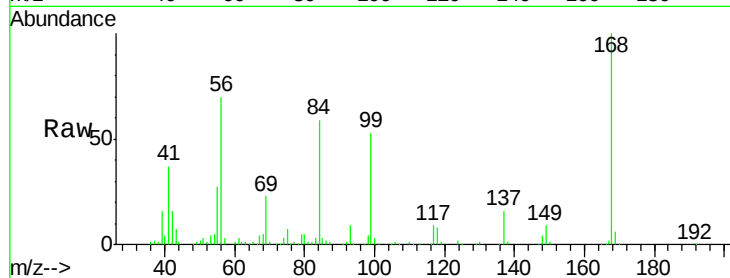
99 51.6 36.9 55.3

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:48:44 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

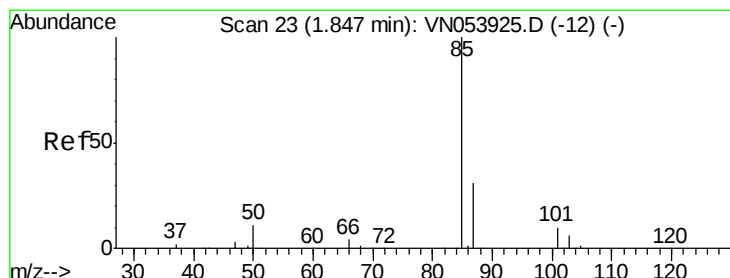
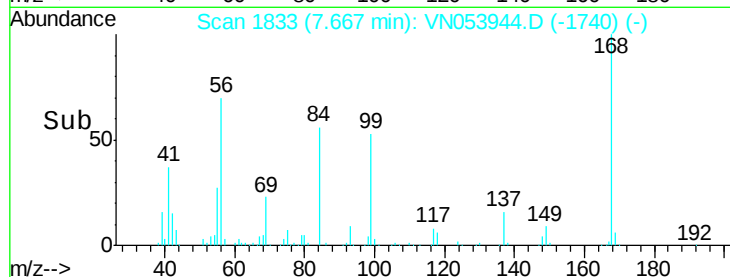
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 49.387 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN053944.D

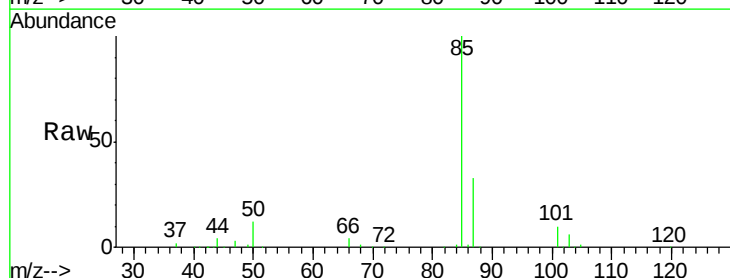
Acq: 25 Feb 2019 21:50

Tgt Ion: 85 Resp: 286970

Ion Ratio Lower Upper

85 100

87 33.0 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

200000

150000

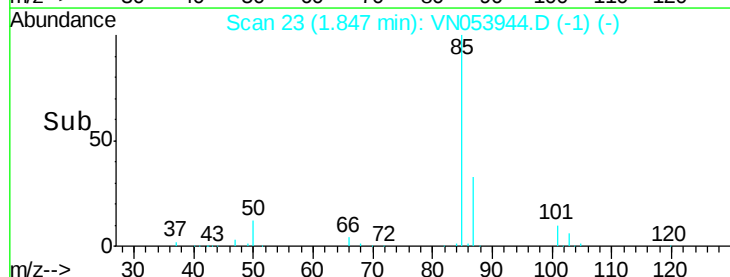
100000

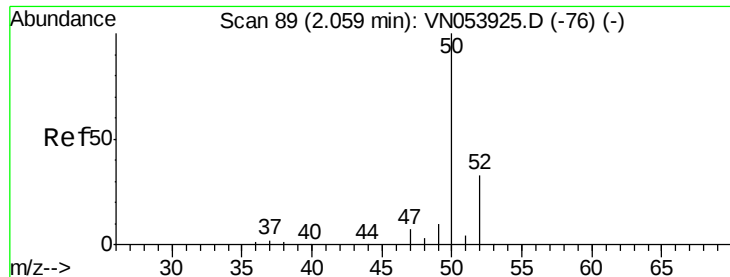
50000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 51.011 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 411140

Ion Ratio Lower Upper

50 100

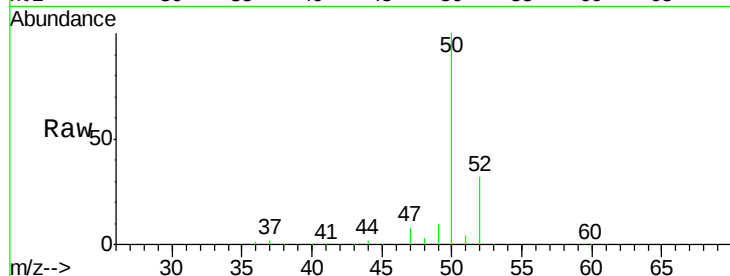
52 32.5 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:48:44 AM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

250000

200000

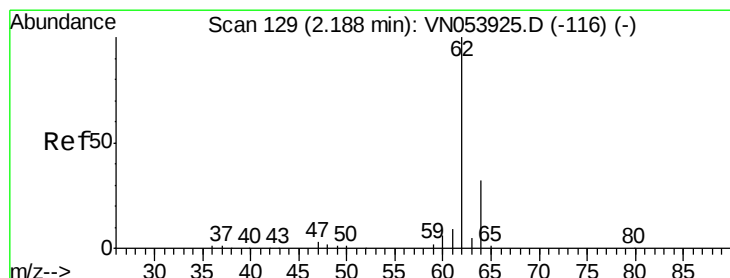
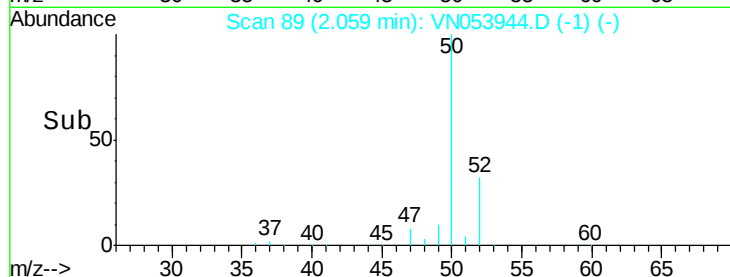
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 50.494 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN053944.D

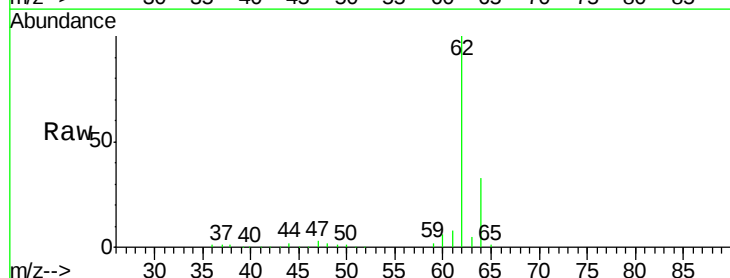
Acq: 25 Feb 2019 21:50

Tgt Ion: 62 Resp: 407764

Ion Ratio Lower Upper

62 100

64 32.7 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.18

300000

250000

200000

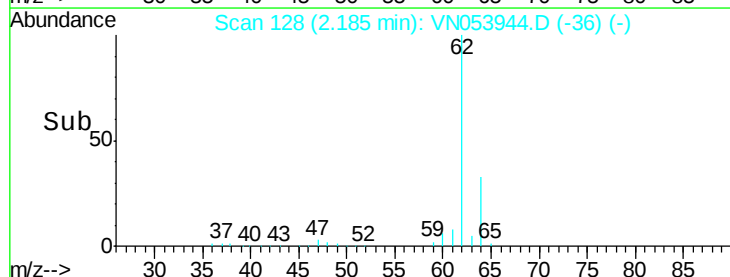
150000

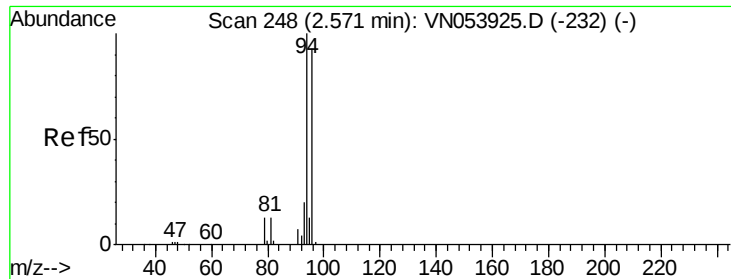
100000

50000

0

Time-->





#5

Bromomethane

Concen: 46.692 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 249716

Ion Ratio Lower Upper

94 100

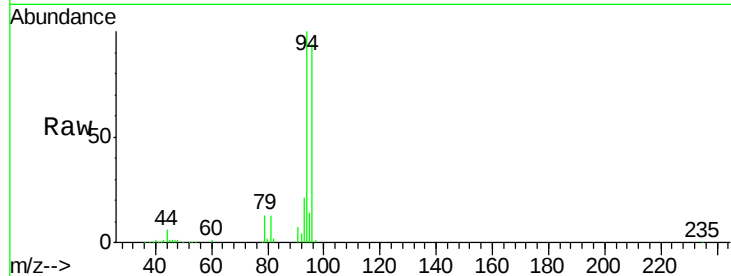
96 94.1 74.9 112.3

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:48:44 AM



Abundance Ion 93.90 (93.60 to 94.60): VN053925.D (-232) (-)

Ion 95.90 (95.60 to 96.60): VN053925.D (-232) (-)

2.57

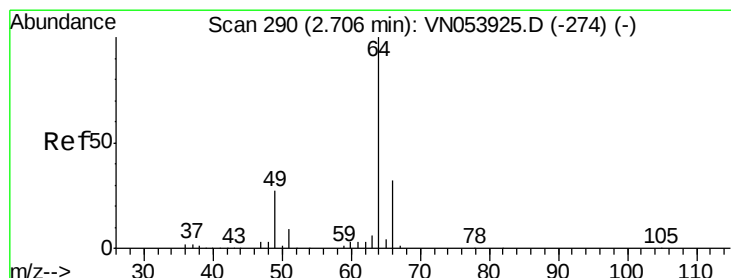
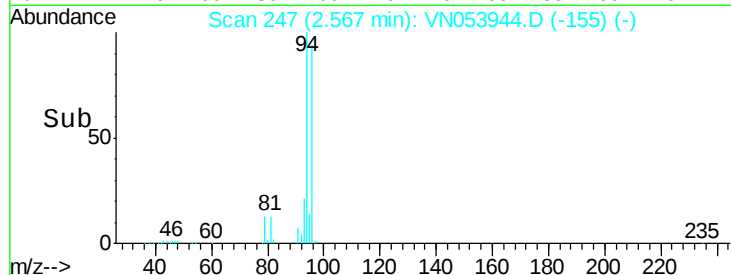
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 49.066 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN053944.D

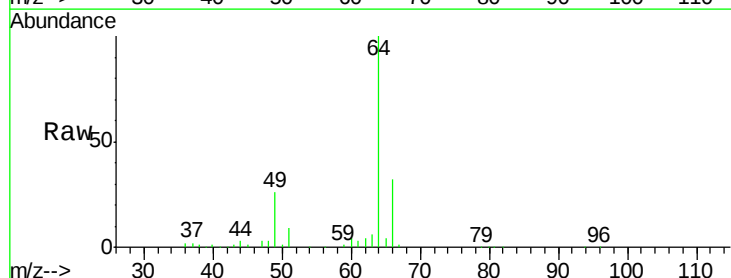
Acq: 25 Feb 2019 21:50

Tgt Ion: 64 Resp: 246427

Ion Ratio Lower Upper

64 100

66 32.2 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VN053925.D (-274) (-)

Ion 65.90 (65.60 to 66.60): VN053925.D (-274) (-)

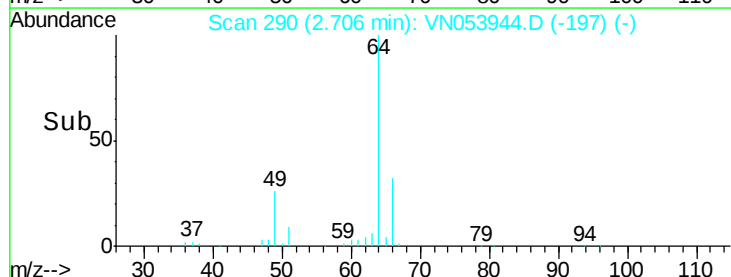
2.71

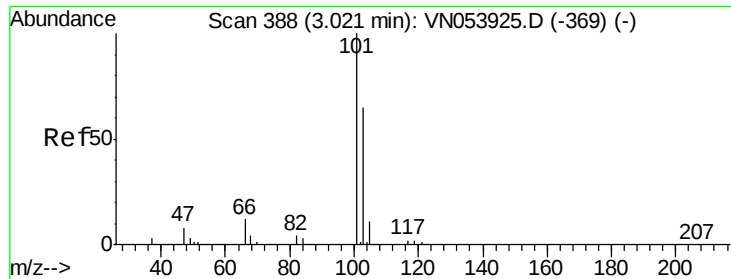
100000

50000

0

Time-->





#7

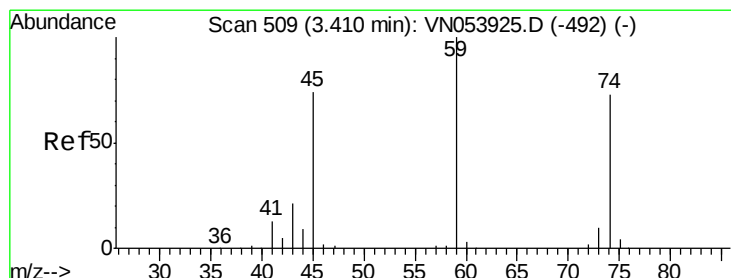
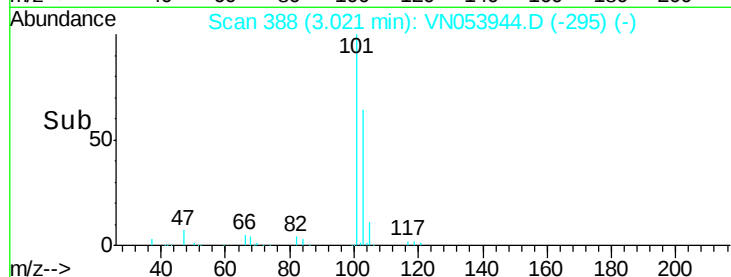
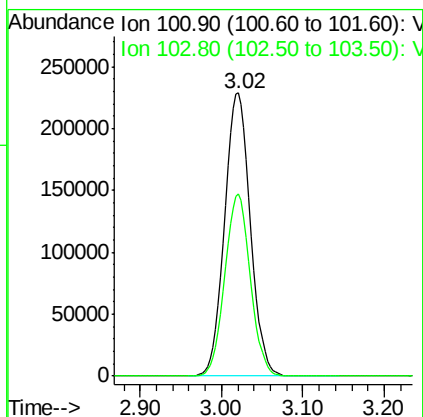
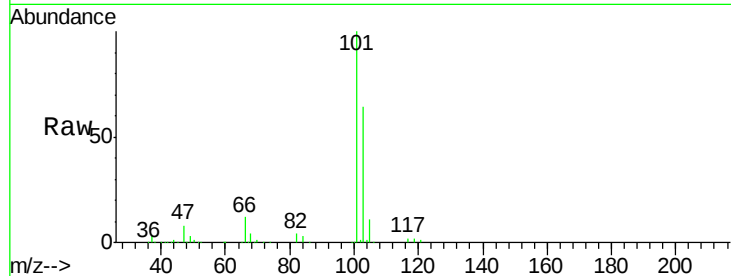
Trichlorofluoromethane
Concen: 49.551 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.9	77.9

Manual Integrations
APPROVED

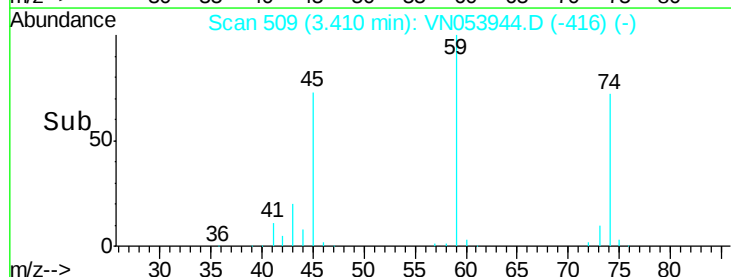
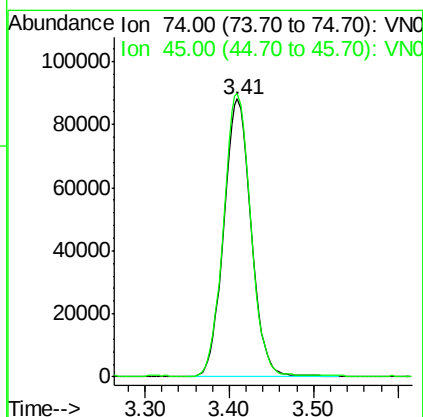
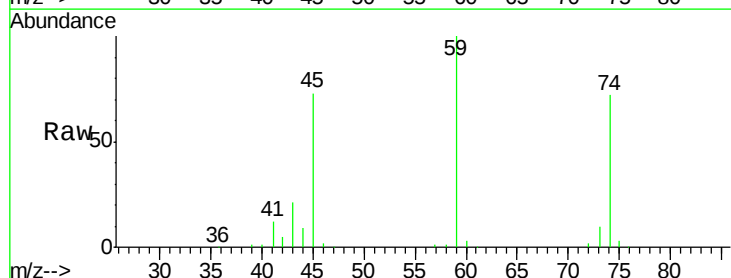
MMDadoda
2/28/2019 10:48:44 AM

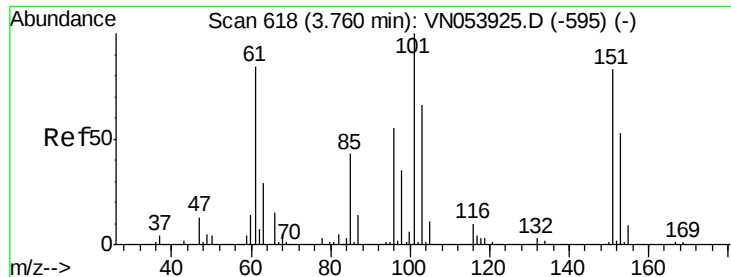


#8

Diethyl Ether
Concen: 51.415 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.0	46.9	140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.582 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

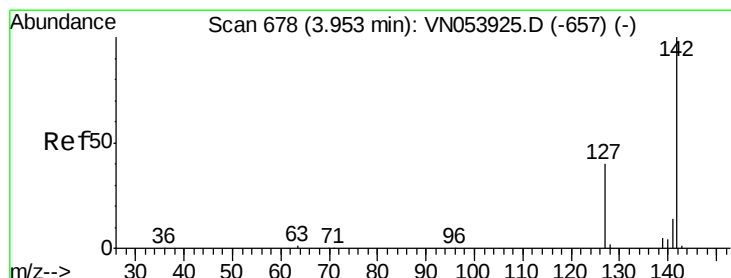
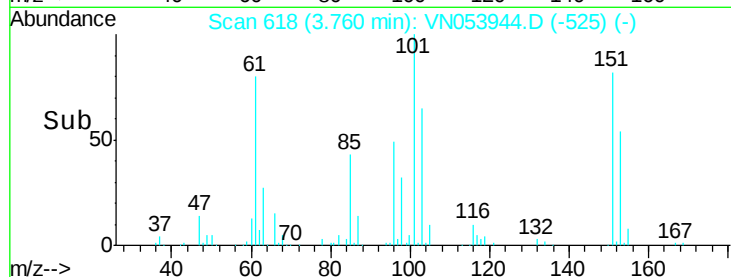
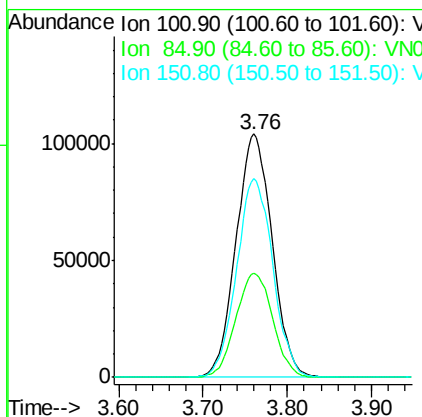
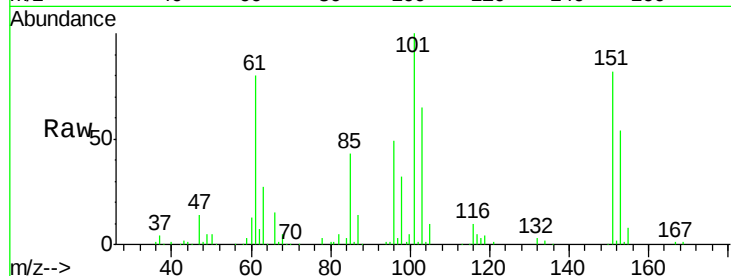
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	310030
Ion Ratio	Lower	Upper	
101	100		
85	43.6	32.5	48.7
151	82.0	70.2	105.2

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#10

Methyl Iodide

Concen: 54.106 ug/l

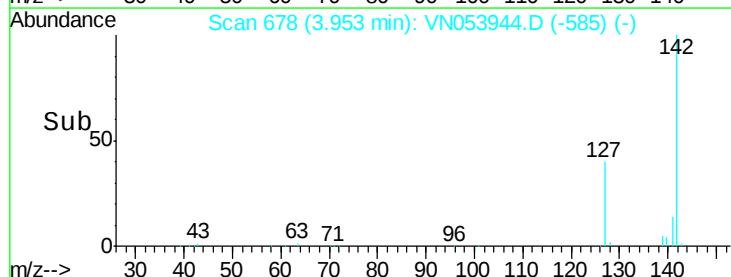
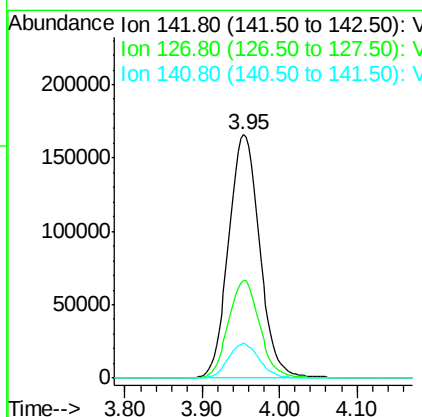
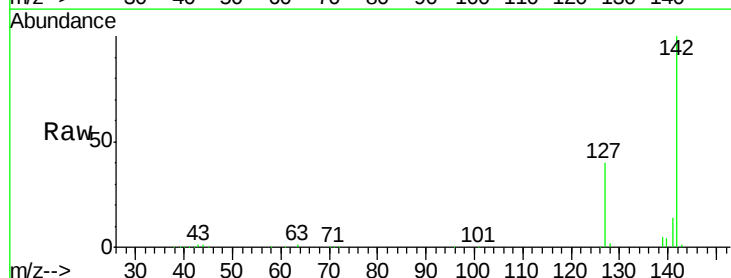
RT: 3.95 min Scan# 678

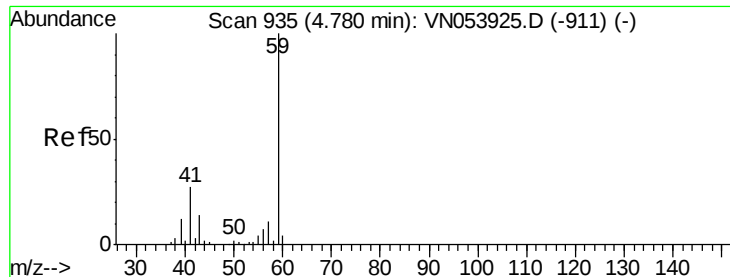
Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion:	142	Resp:	463237
Ion Ratio	Lower	Upper	
142	100		
127	40.4	31.0	46.4
141	14.1	11.3	16.9





#11

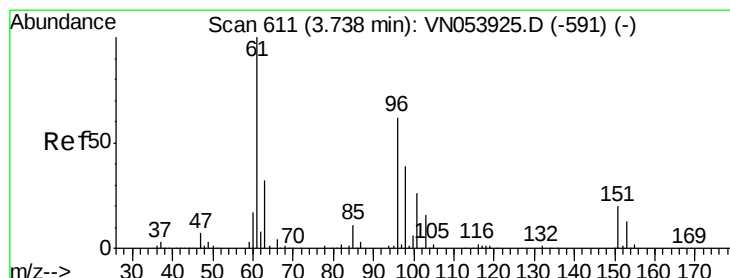
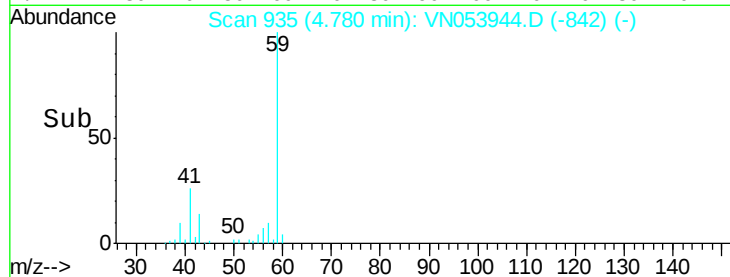
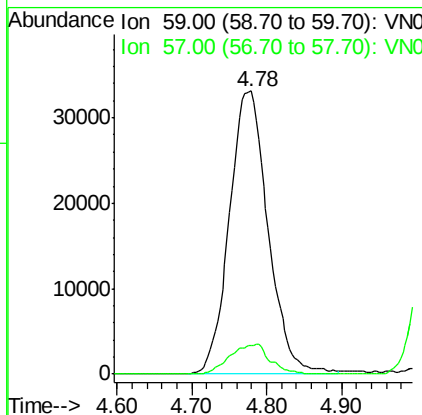
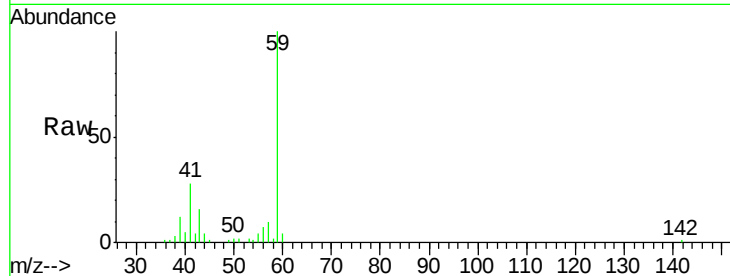
Tert butyl alcohol
 Concen: 254.076 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.1	12.1

Manual Integrations
 APPROVED

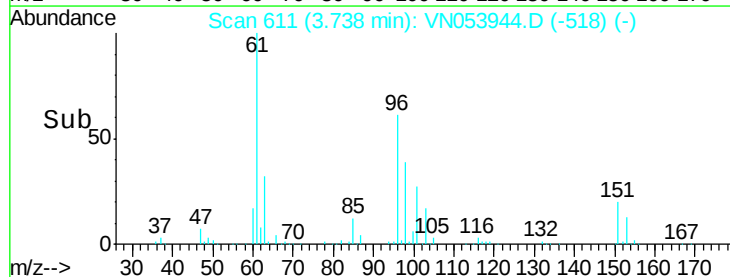
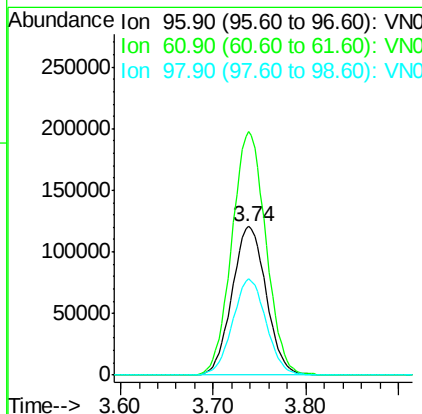
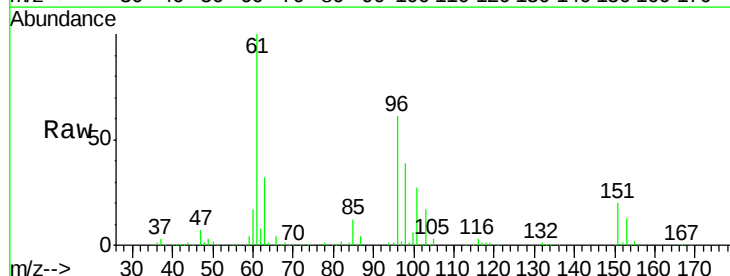
MMDadoda
 2/28/2019 10:48:44 AM

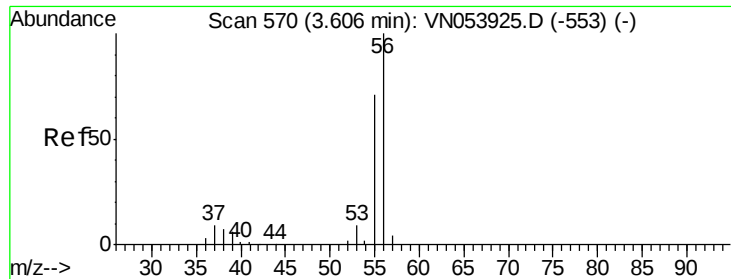


#12

1,1-Dichloroethene
 Concen: 49.390 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.6	121.0	181.4
98	64.4	52.2	78.2





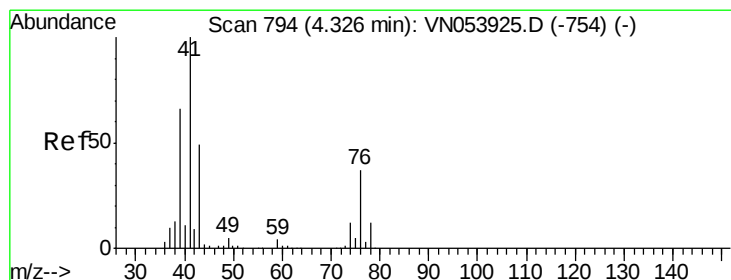
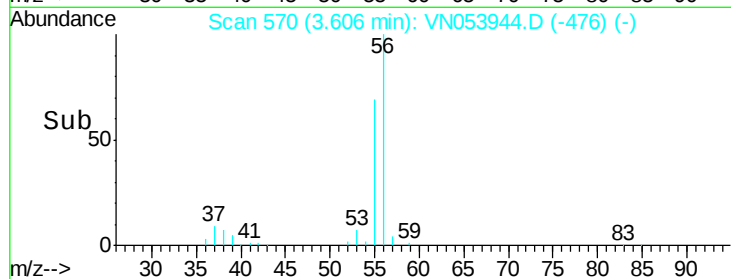
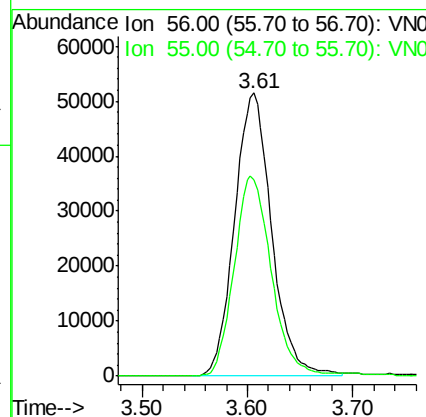
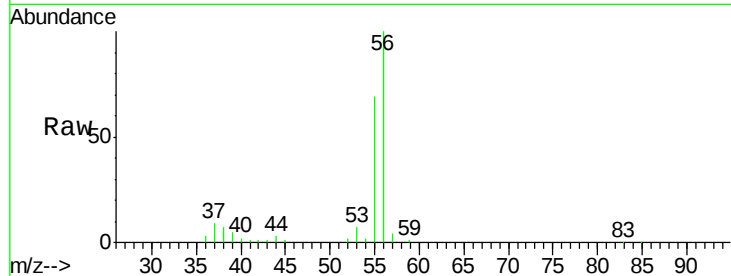
#13
Acrolein
Concen: 259.299 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.5	56.3	84.5

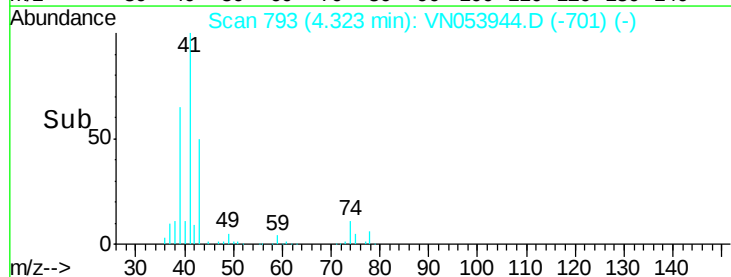
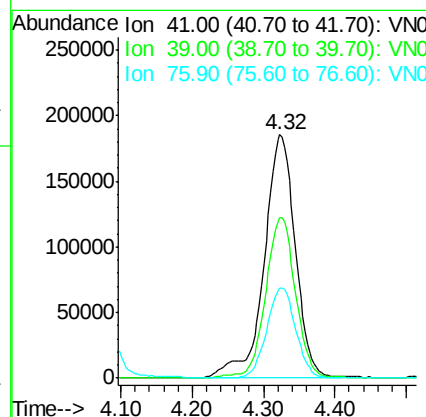
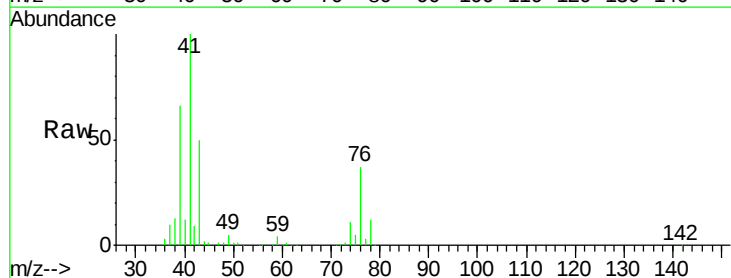
Manual Integrations
APPROVED

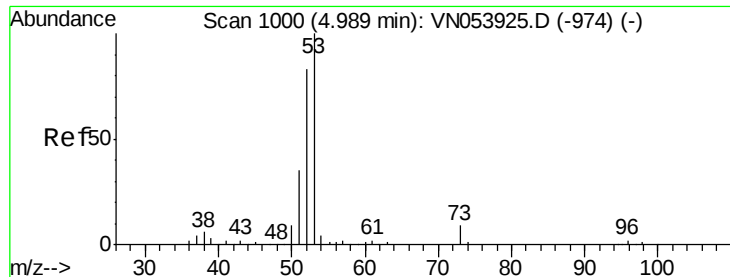
MMDadoda
2/28/2019 10:48:44 AM



#14
Allyl chloride
Concen: 51.404 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
41	100		
39	63.8	48.8	73.2
76	34.0	30.9	46.3





#15

Acrylonitrile

Concen: 262.481 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

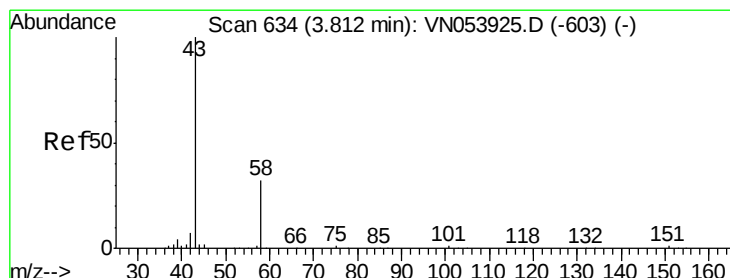
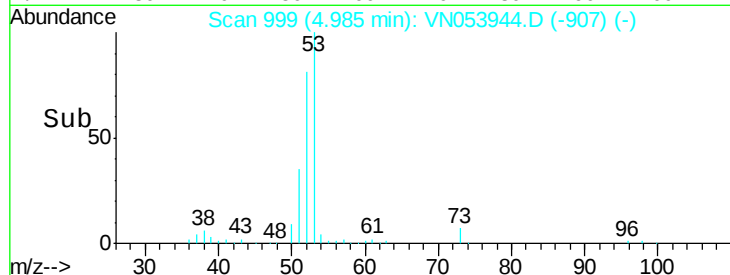
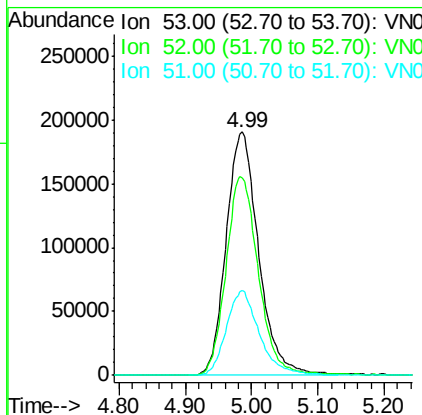
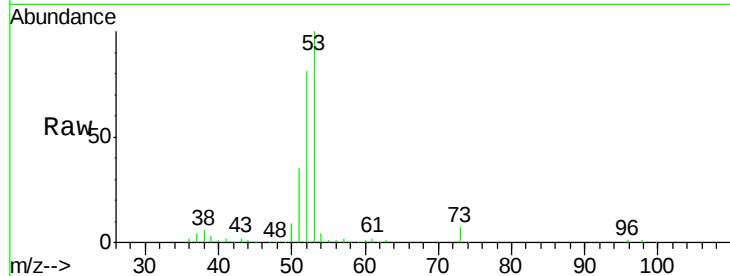
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	649063
Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.1	97.7
51	35.3	28.2	42.4

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#16

Acetone

Concen: 223.852 ug/l

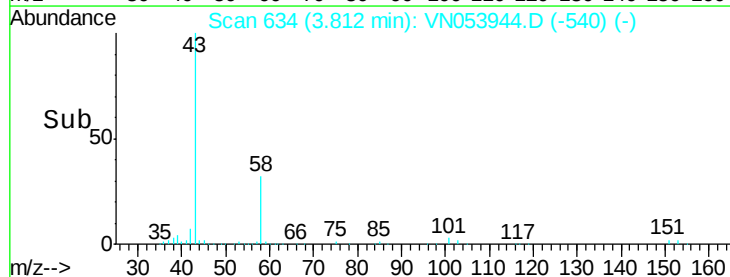
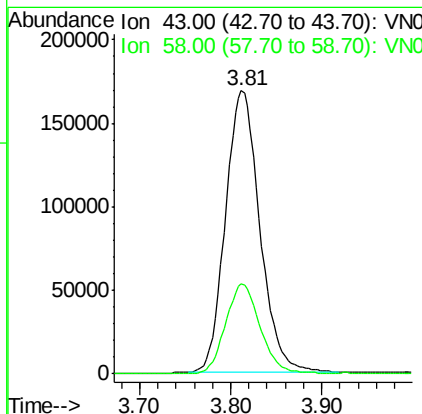
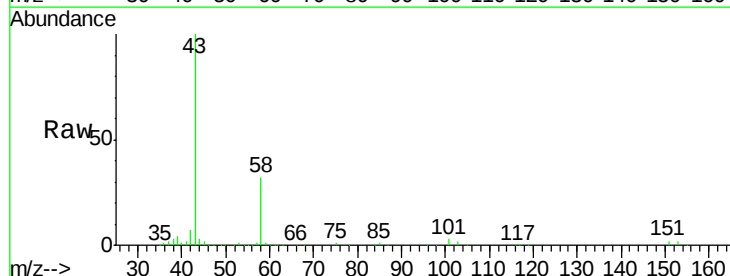
RT: 3.81 min Scan# 634

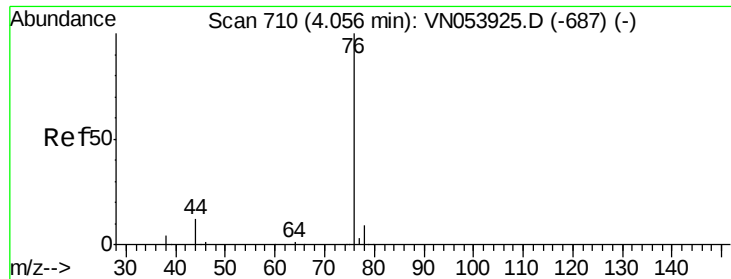
Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion:	43	Resp:	441044
Ion	Ratio	Lower	Upper
43	100		
58	31.9	27.6	41.4





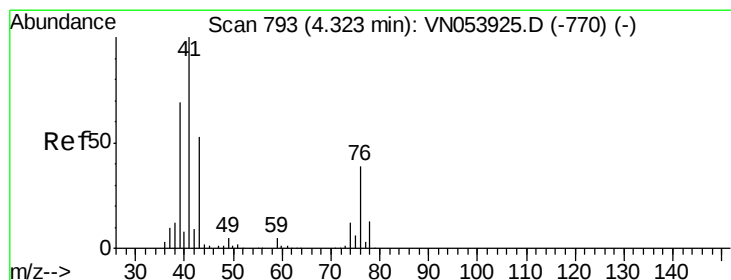
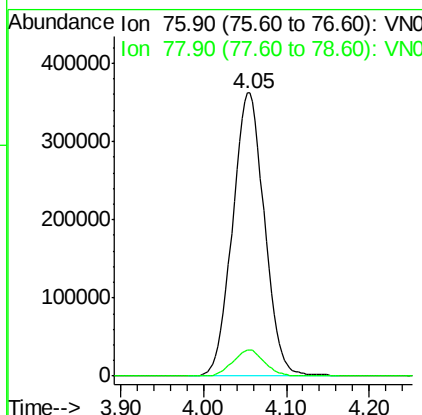
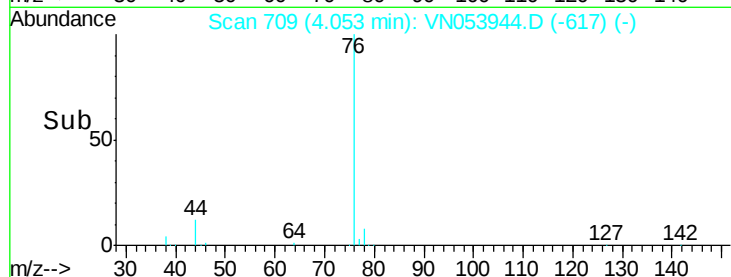
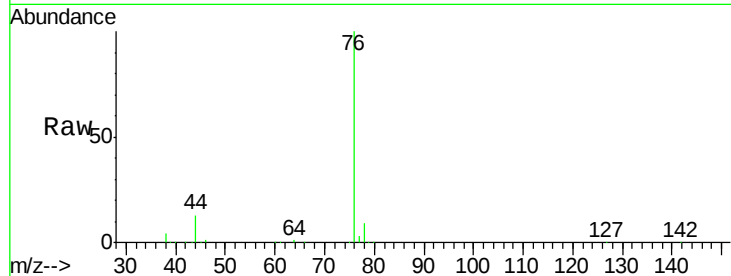
#17
Carbon Disulfide
Concen: 48.220 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.5	11.3

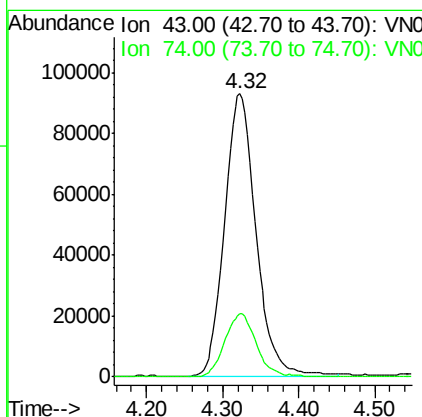
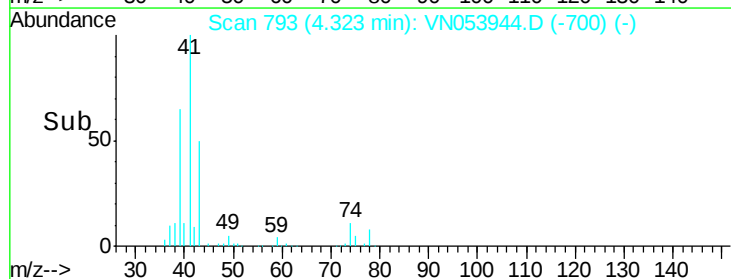
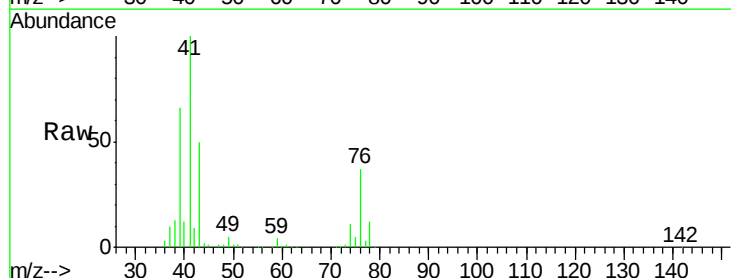
Manual Integrations
APPROVED

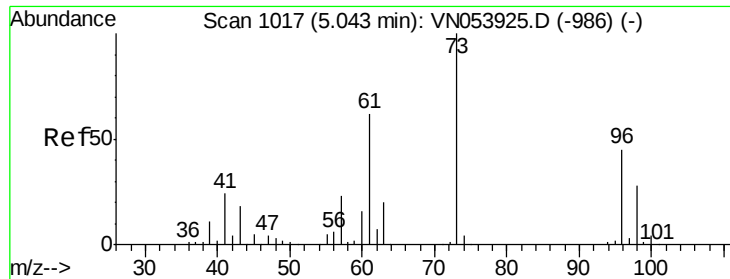
MMDadoda
2/28/2019 10:48:44 AM



#18
Methyl Acetate
Concen: 51.520 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.2	20.5	30.7





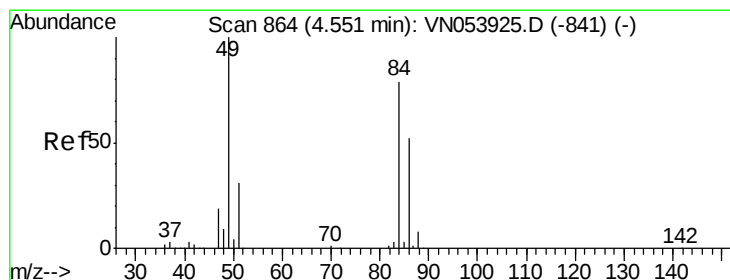
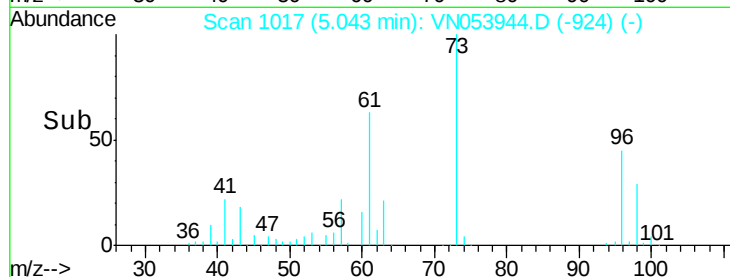
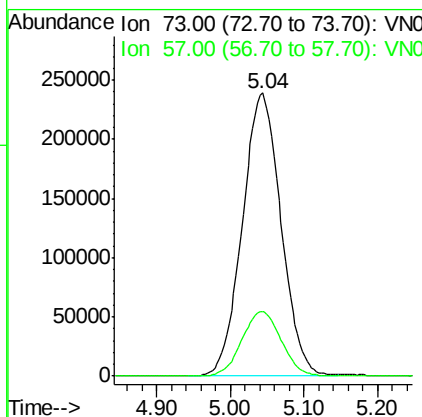
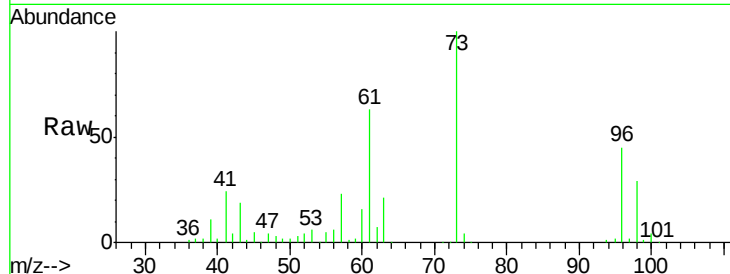
#19
Methvl tert-butvl Ether
Concen: 52.233 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 873294
Ion Ratio Lower Upper
73 100
57 23.0 18.0 27.0

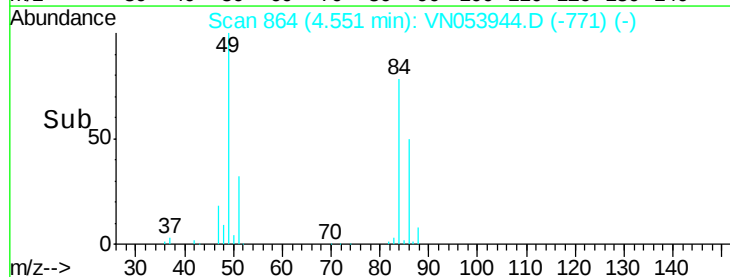
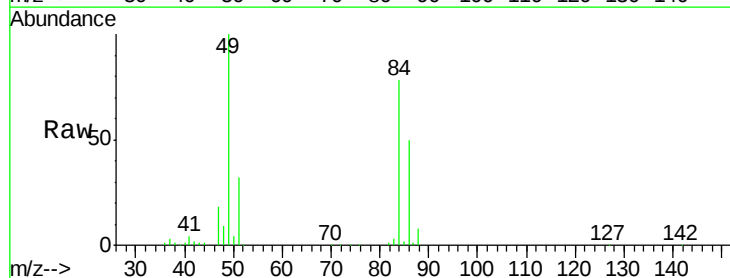
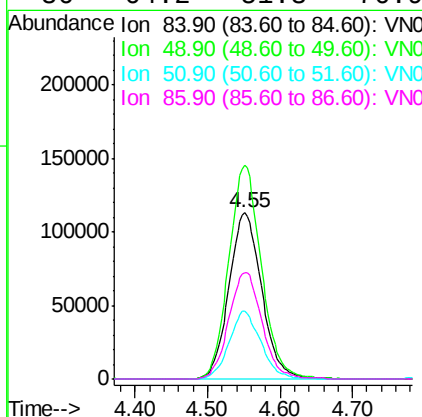
Manual Integrations
APPROVED

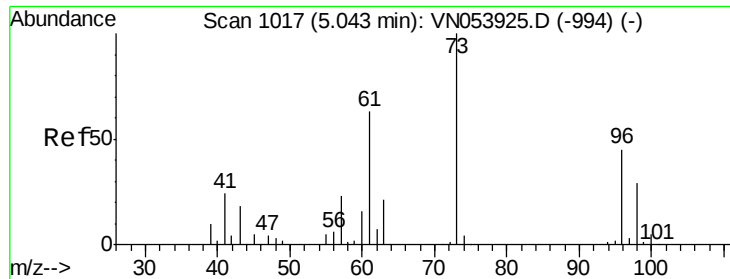
MMDadoda
2/28/2019 10:48:44 AM



#20
Methylene Chloride
Concen: 48.618 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion: 84 Resp: 356125
Ion Ratio Lower Upper
84 100
49 128.6 89.7 134.5
51 40.8 27.8 41.8
86 64.2 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 49.922 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 336758

Ion Ratio Lower Upper

96 100

61 142.3 104.5 156.7

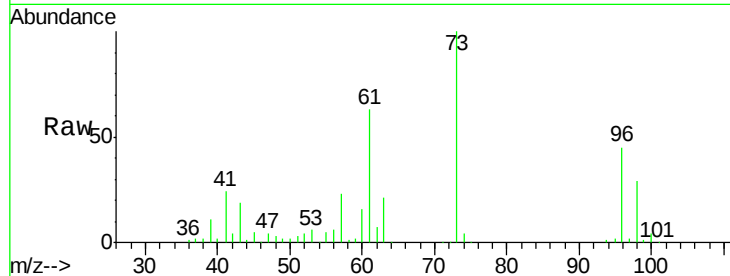
98 64.2 50.6 76.0

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:48:44 AM

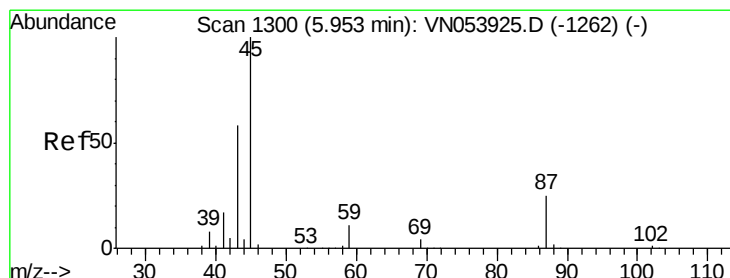
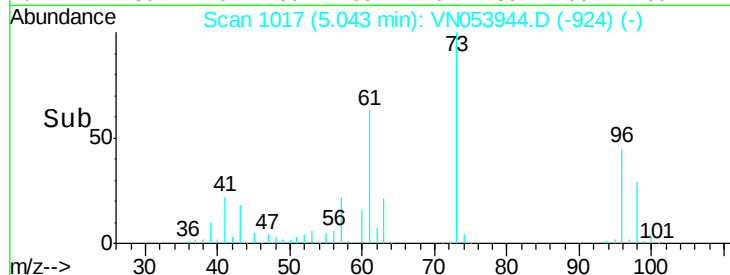
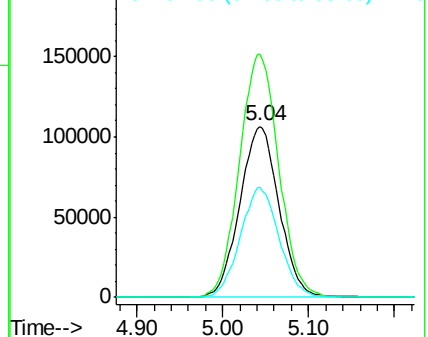


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 54.060 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion: 45 Resp: 1140058

Ion Ratio Lower Upper

45 100

43 59.4 46.2 69.4

87 25.4 23.4 35.0

59 11.4 9.4 14.0

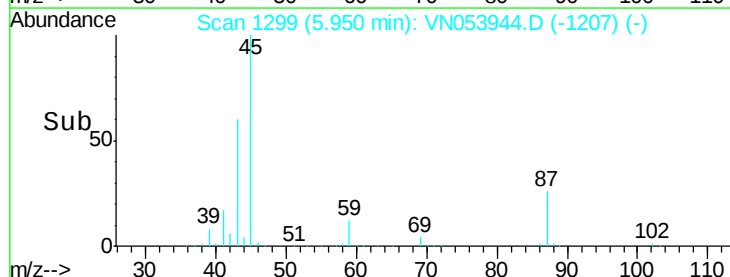
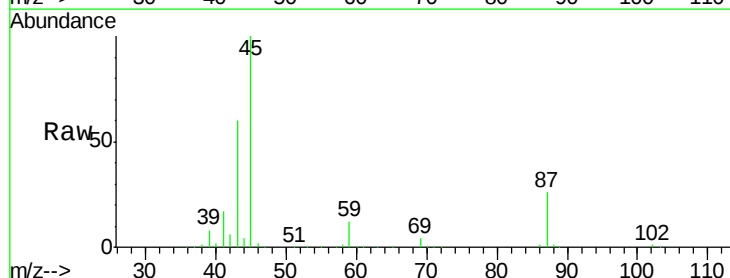
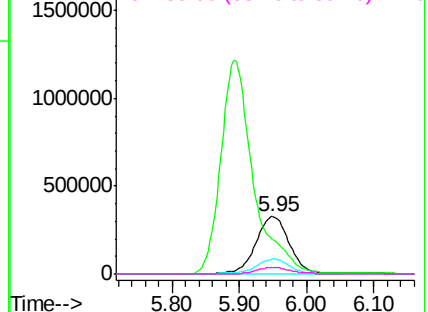
Abundance

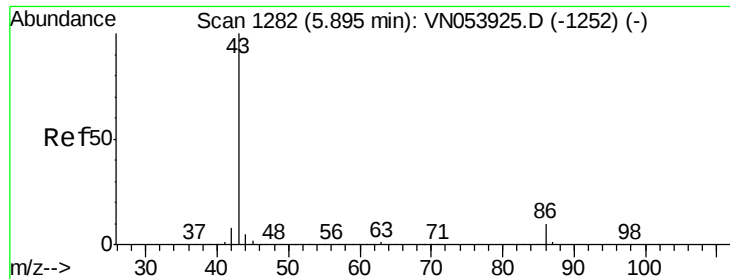
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 271.917 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 4125216

Ion Ratio Lower Upper

43 100

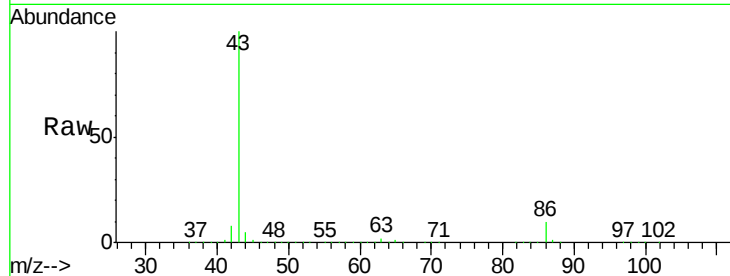
86 9.8 9.1 13.7

Manual Integrations

APPROVED

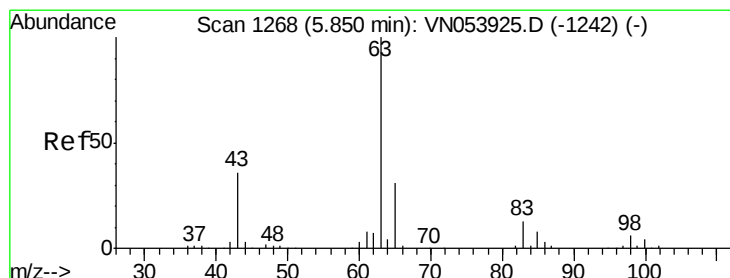
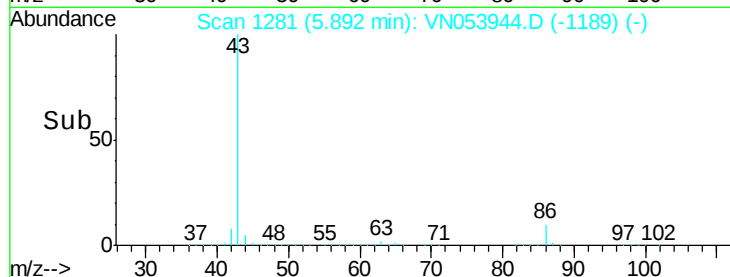
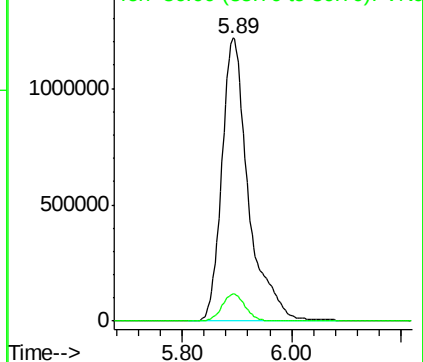
MMDadoda

2/28/2019 10:48:44 AM



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO



#24

1,1-Dichloroethane

Concen: 50.821 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

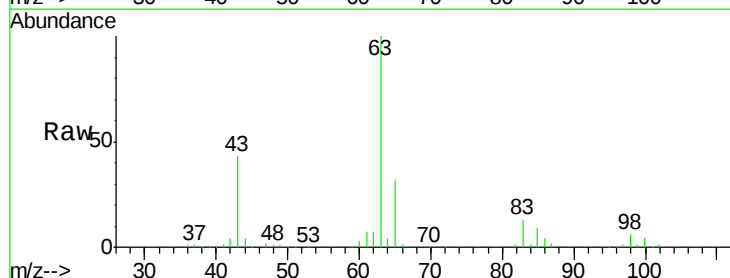
Tgt Ion: 63 Resp: 657243

Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.2

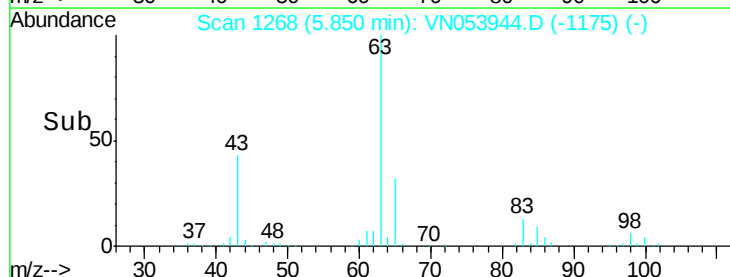
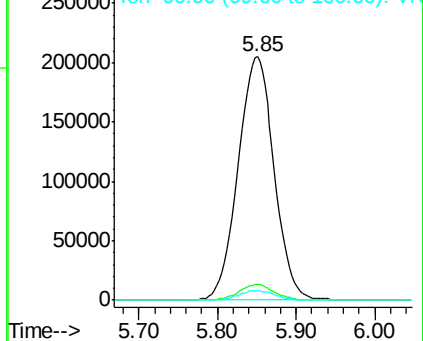
100 3.9 2.2 6.6

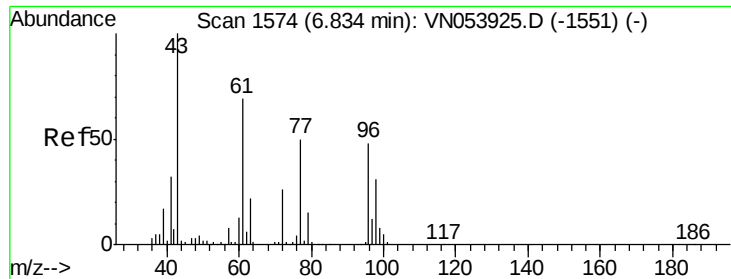


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO





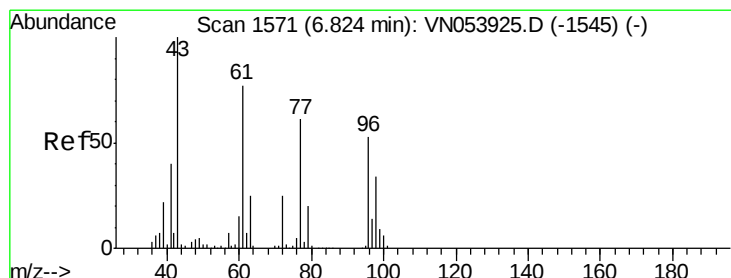
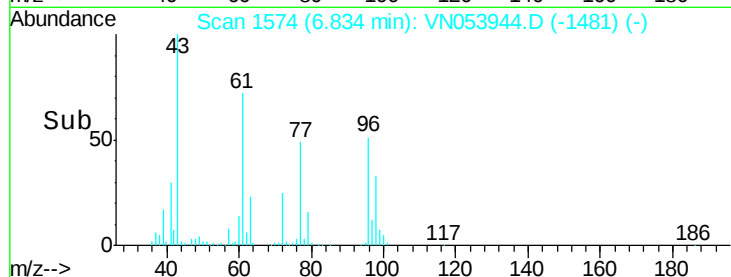
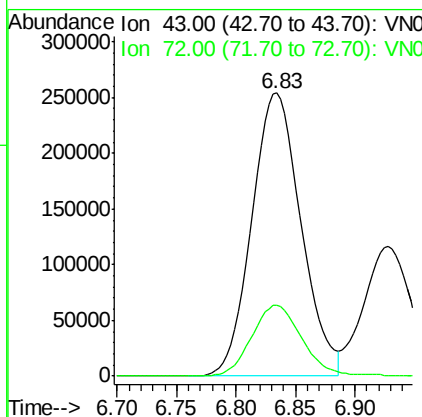
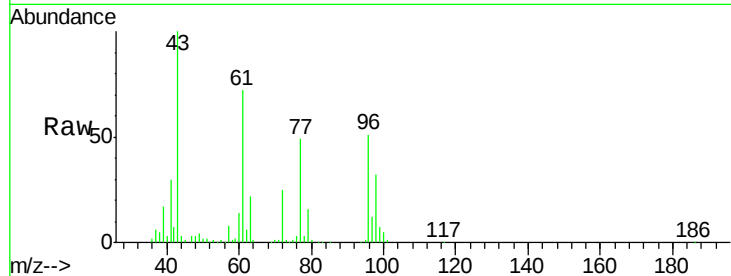
#25
 2-Butanone
 Concen: 249.653 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 725490
 Ion Ratio Lower Upper
 43 100
 72 25.3 22.1 33.1

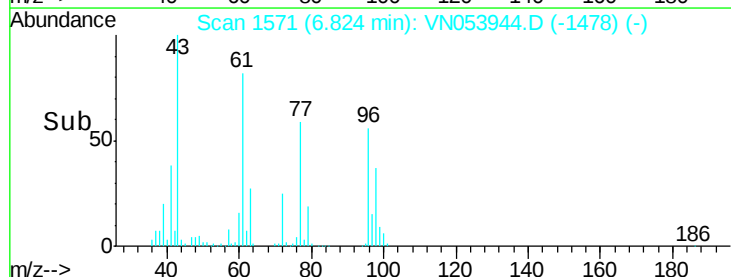
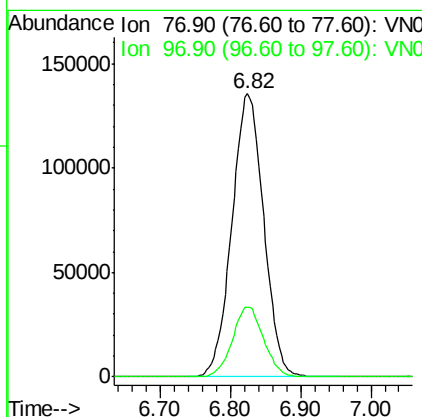
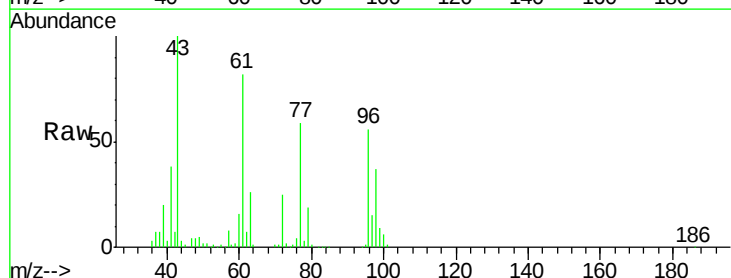
Manual Integrations
 APPROVED

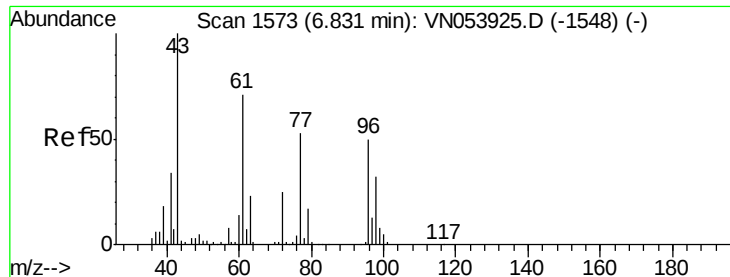
MMDadoda
 2/28/2019 10:48:44 AM



#26
 2,2-Dichloropropane
 Concen: 46.454 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion: 77 Resp: 426819
 Ion Ratio Lower Upper
 77 100
 97 24.1 12.3 36.9





#27

cis-1,2-Dichloroethene

Concen: 51.600 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

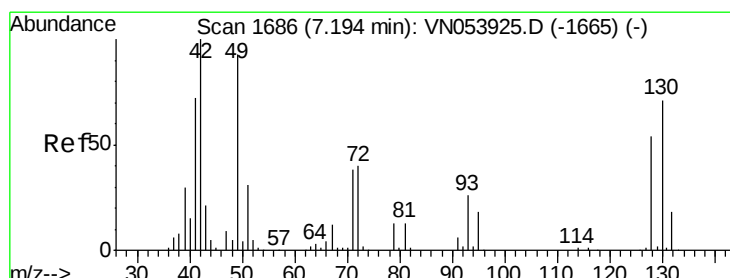
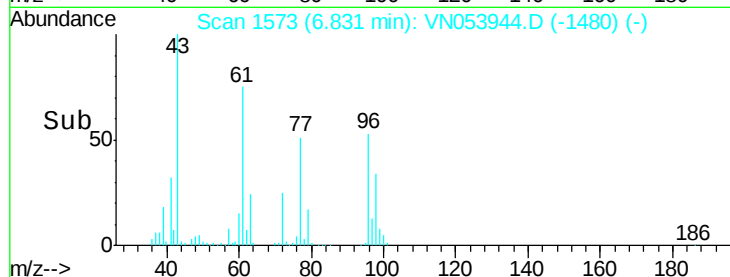
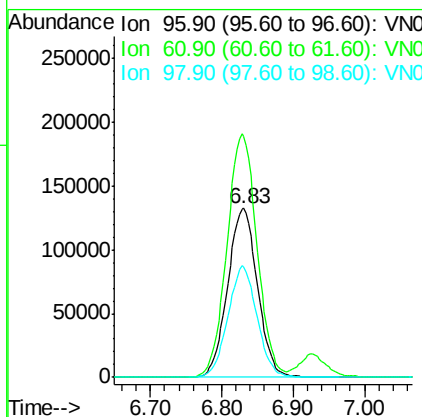
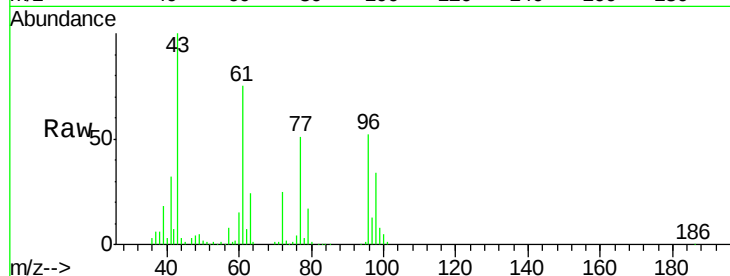
ClientSampleID :

VSTDCCC050EC

Tot Ion:	96	Resp:	387104
Ion	Ratio	Lower	Upper
96	100		
61	144.5	0.0	275.6
98	64.5	0.0	130.0

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#28

Bromochloromethane

Concen: 52.932 ug/l

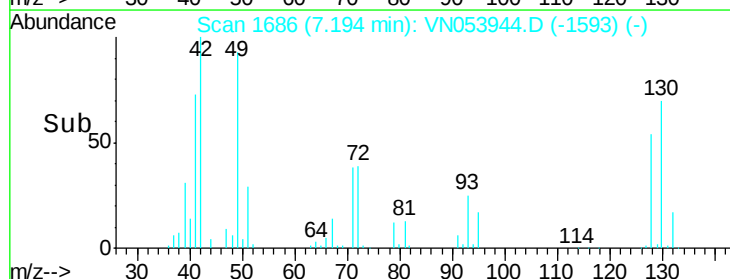
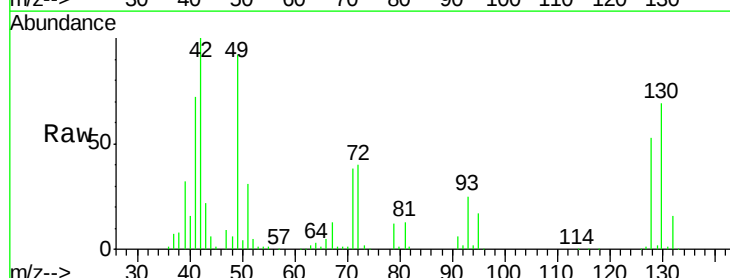
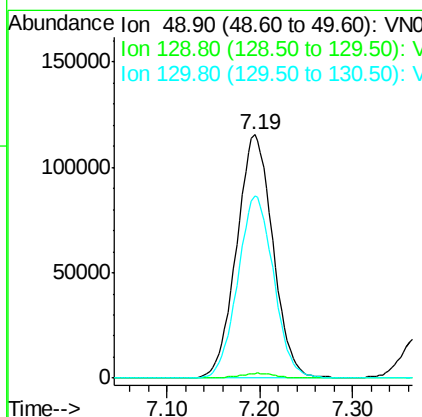
RT: 7.19 min Scan# 1686

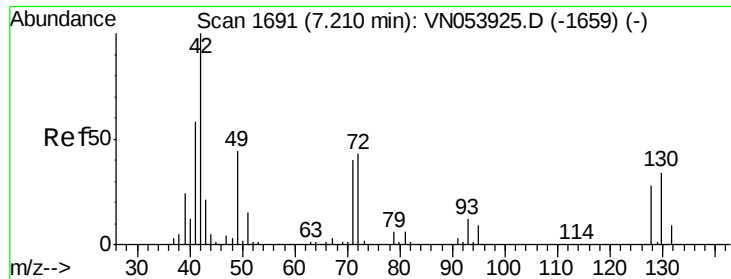
Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion:	49	Resp:	313333
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.6
130	74.0	72.9	109.3





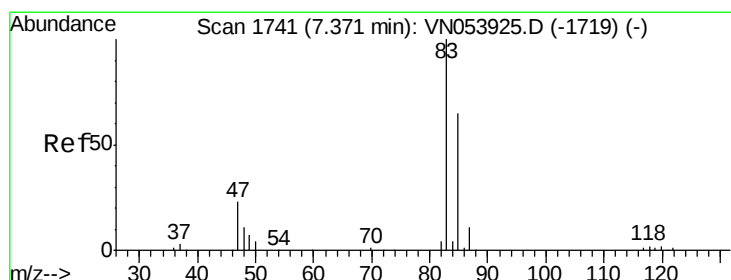
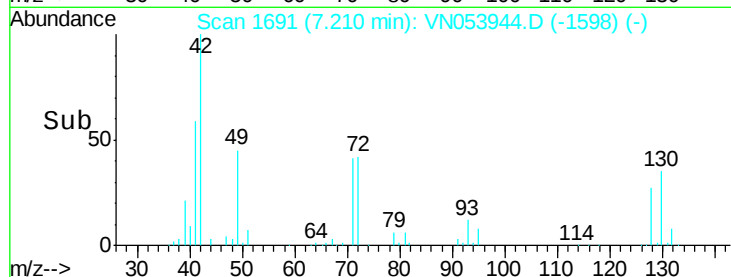
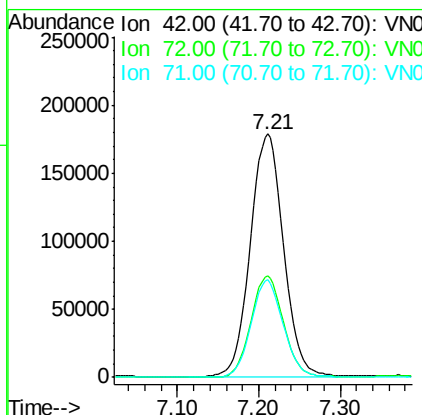
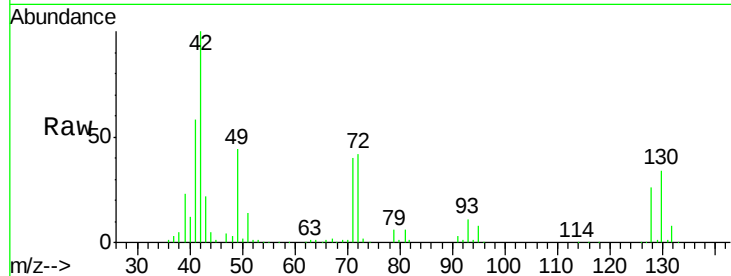
#29
Tetrahydrofuran
Concen: 260.146 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.9	36.9	55.3
71	38.9	34.6	52.0

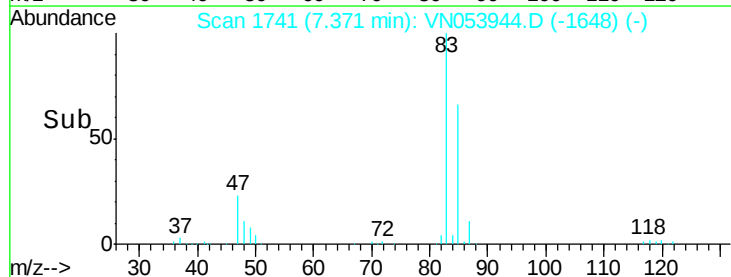
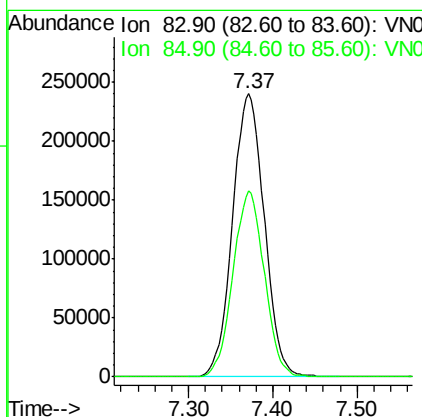
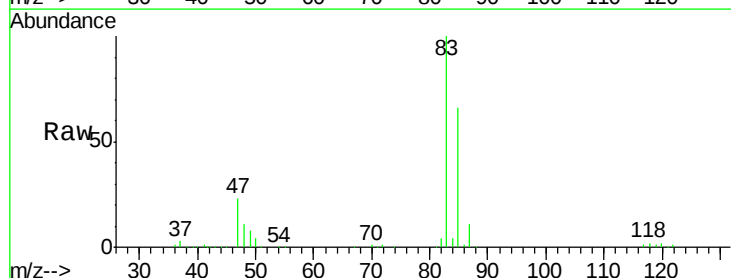
Manual Integrations
APPROVED

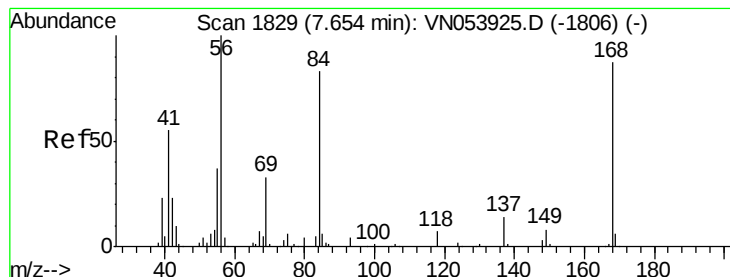
MMDadoda
2/28/2019 10:48:44 AM



#30
Chloroform
Concen: 50.302 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.6	78.8





#31

Cyclohexane

Concen: 51.389 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

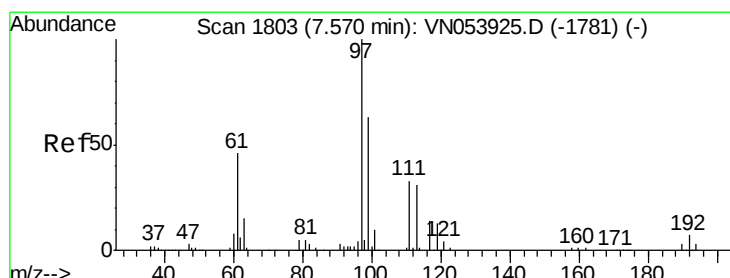
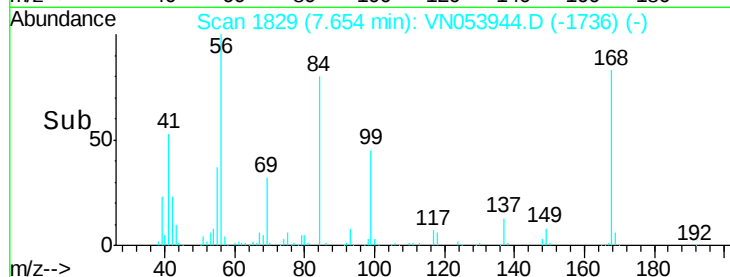
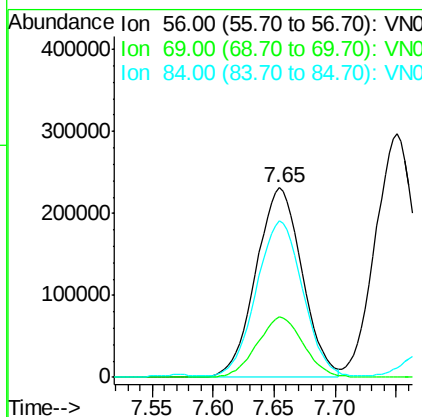
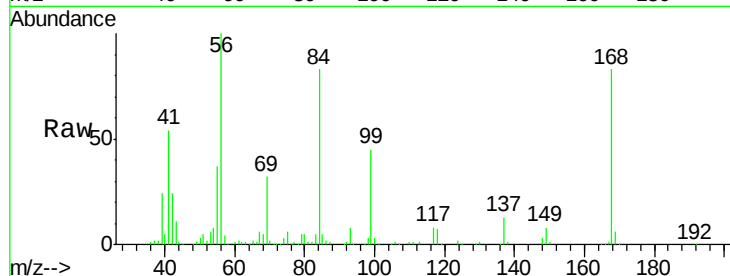
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	608064
Ion Ratio	Lower	Upper	
56	100		
69	31.8	26.0	39.0
84	81.3	69.1	103.7

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#32

1,1,1-Trichloroethane

Concen: 50.995 ug/l

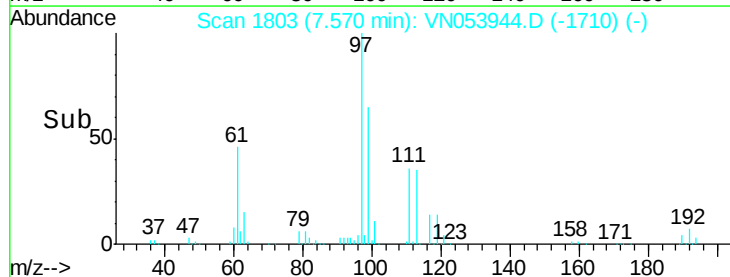
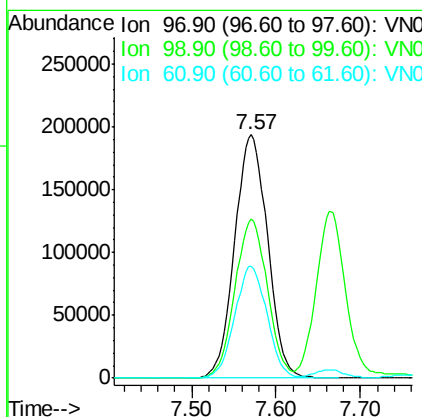
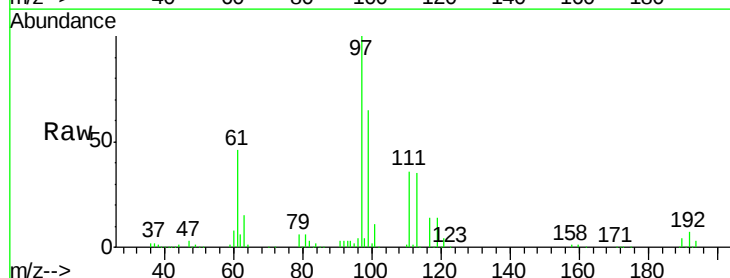
RT: 7.57 min Scan# 1803

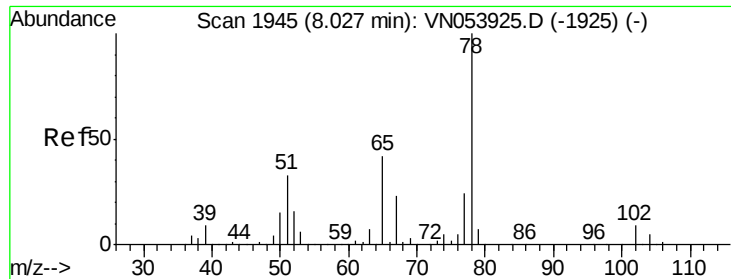
Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion:	97	Resp:	527270
Ion Ratio	Lower	Upper	
97	100		
99	64.3	51.8	77.8
61	45.1	33.2	49.8





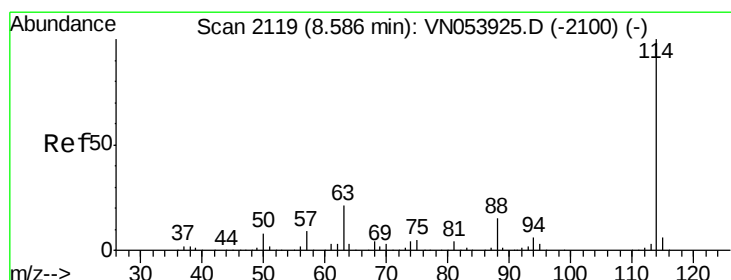
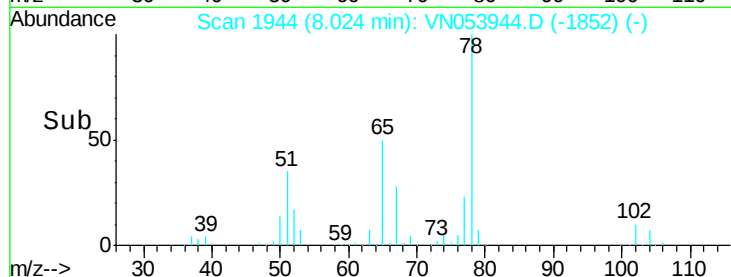
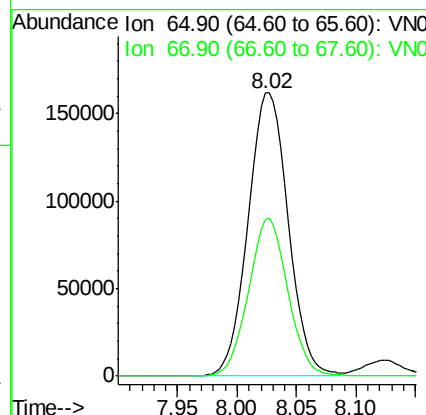
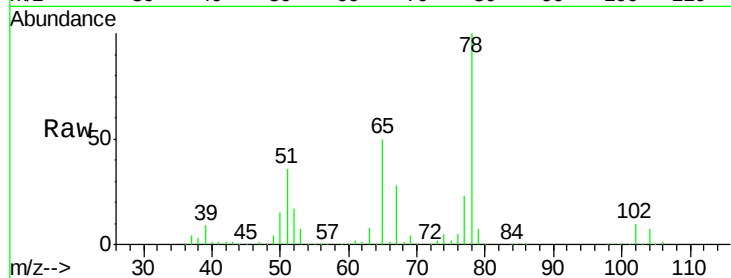
#33
 1,2-Dichloroethane-d4
 Concen: 51.256 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	379346		
67	54.6	0.0	111.8	

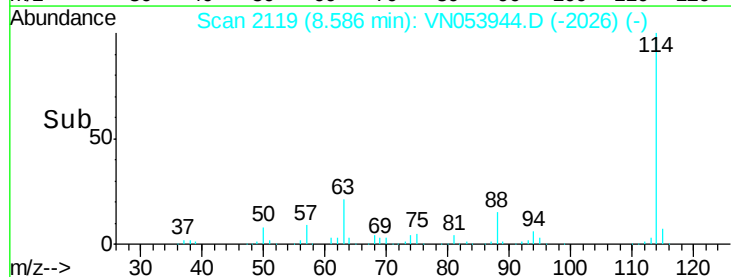
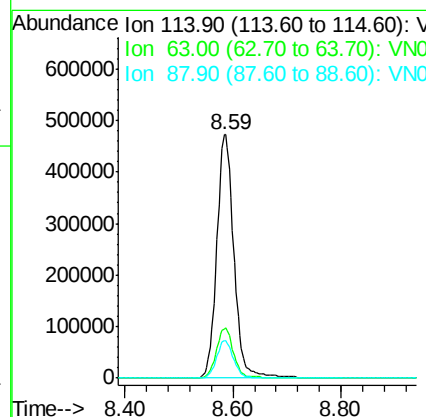
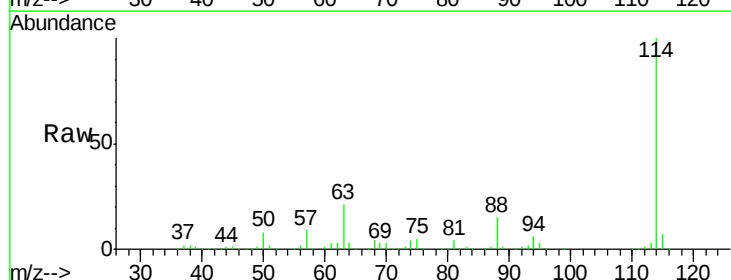
Manual Integrations
 APPROVED

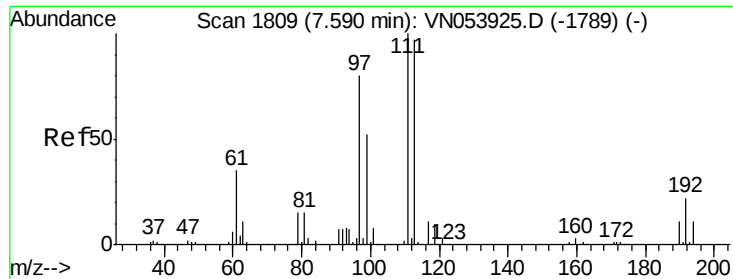
MMDadoda
 2/28/2019 10:48:44 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1044741		
63	20.5	0.0	37.4	
88	15.4	0.0	30.4	





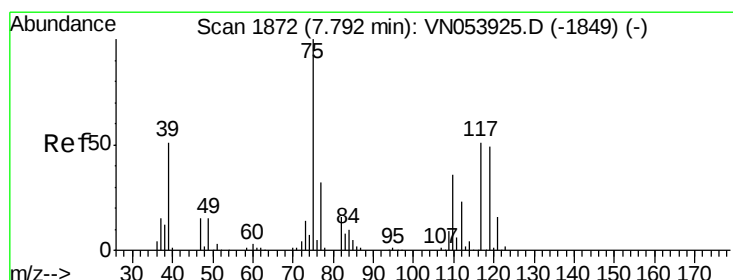
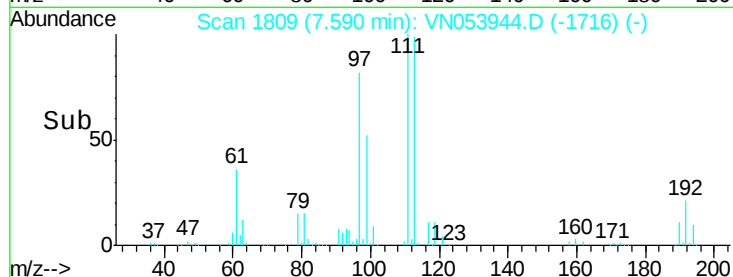
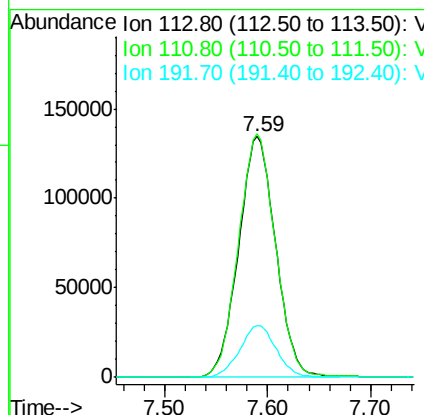
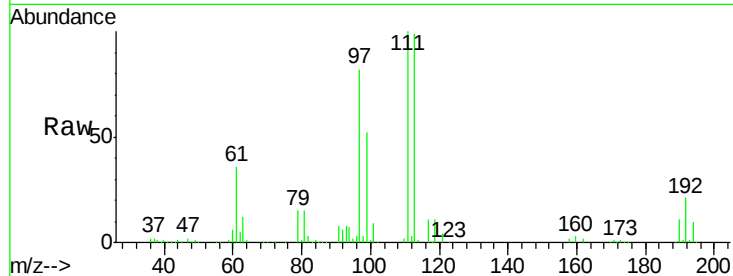
#35
 Dibromofluoromethane
 Concen: 49.666 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	335539		
111	100.7	81.1	121.7	
192	21.2	18.8	28.2	

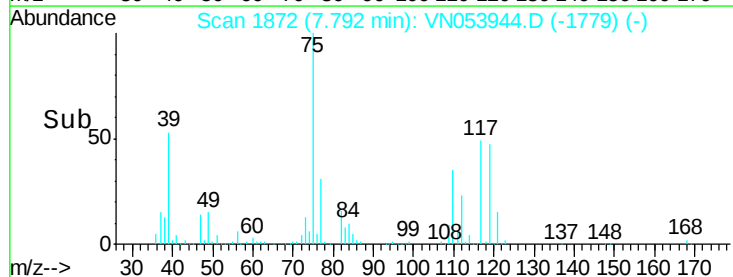
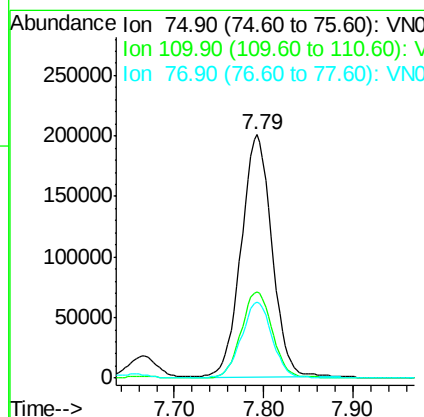
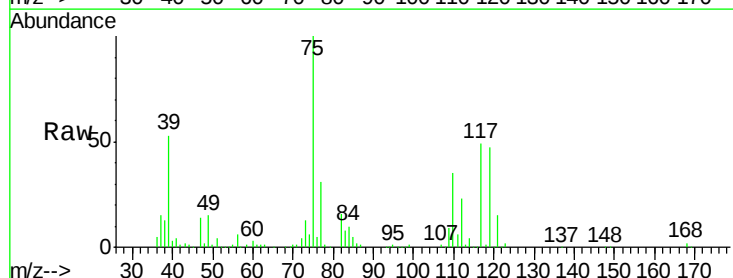
Manual Integrations
 APPROVED

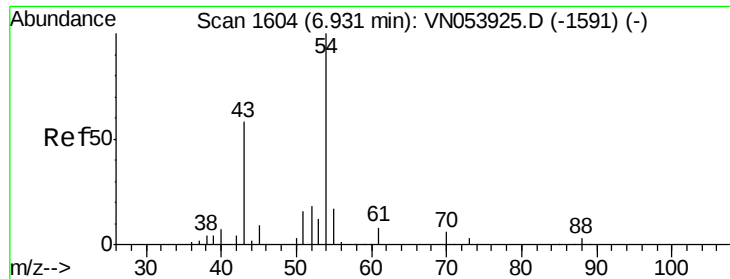
MMDadoda
 2/28/2019 10:48:44 AM



#36
 1,1-Dichloropropene
 Concen: 49.569 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	481603		
110	36.2	19.0	57.0	
77	31.4	25.4	38.0	





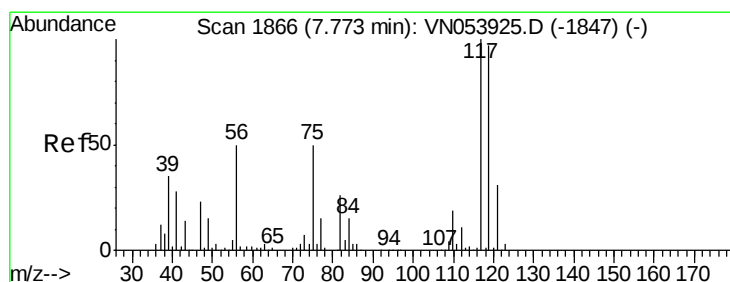
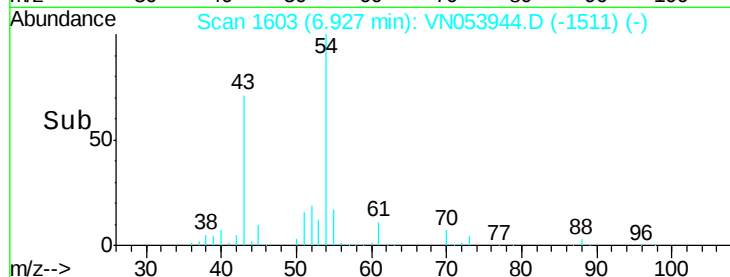
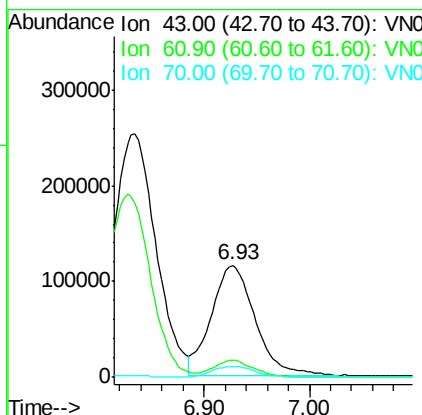
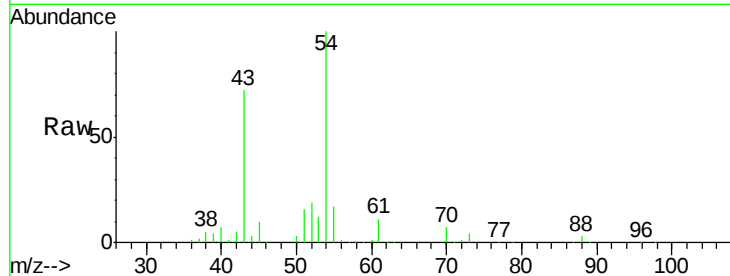
#37
Ethyl Acetate
Concen: 48.004 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	12.0	18.0
70	10.0	8.7	13.1

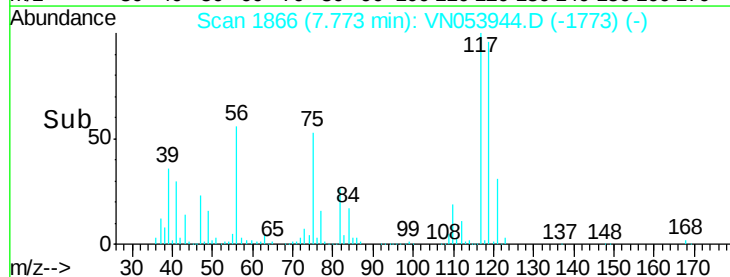
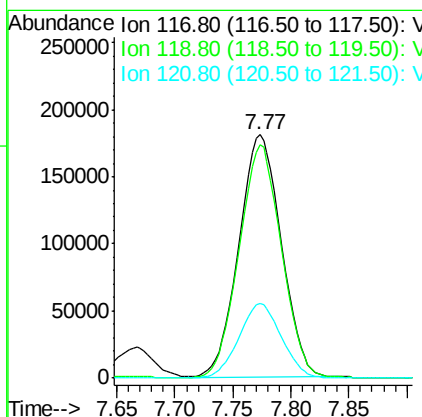
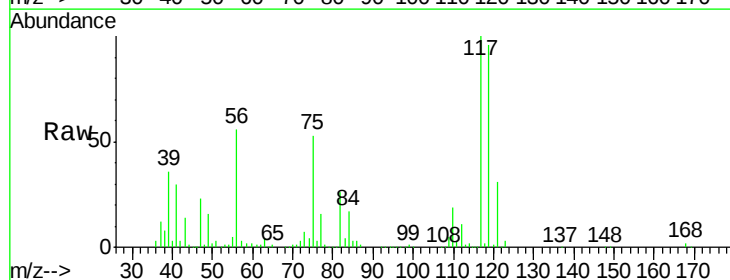
Manual Integrations
APPROVED

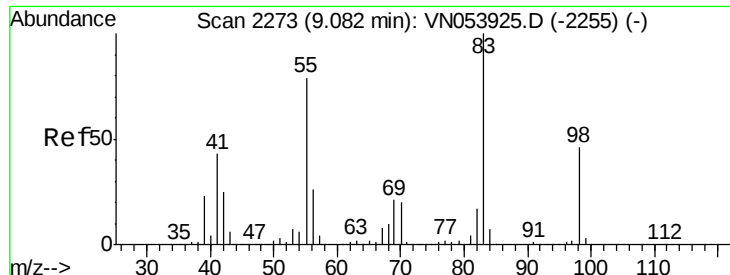
MMDadoda
2/28/2019 10:48:44 AM



#38
Carbon Tetrachloride
Concen: 45.391 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.2	114.2
121	30.7	24.6	36.8





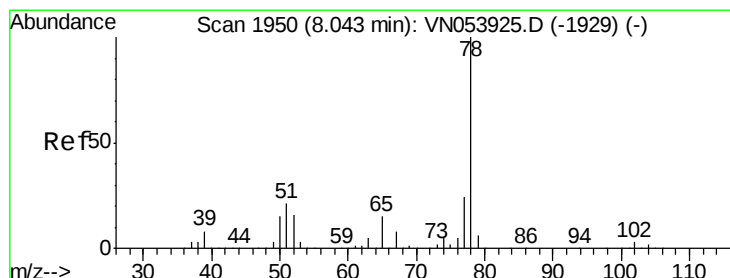
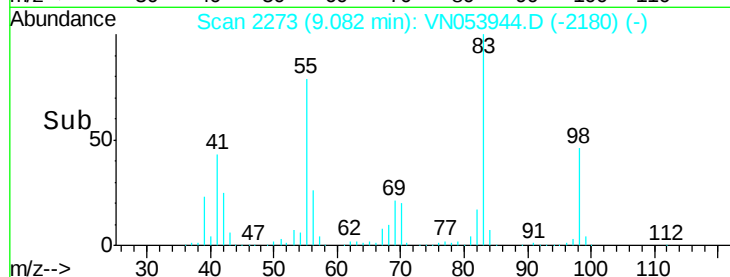
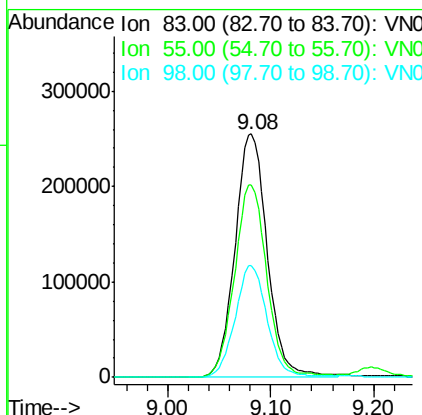
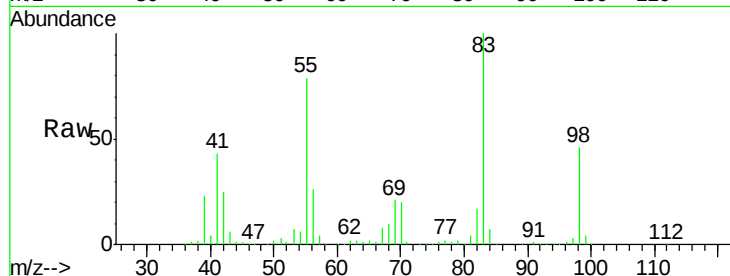
#39
Methvlcvclohexane
Concen: 47.660 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.1	58.2	87.4
98	46.1	37.2	55.8

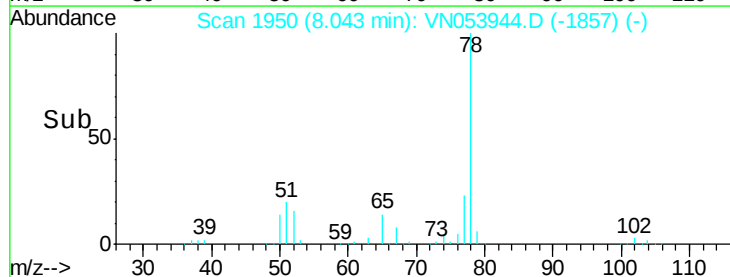
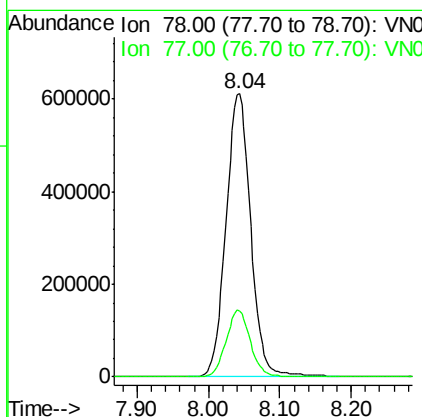
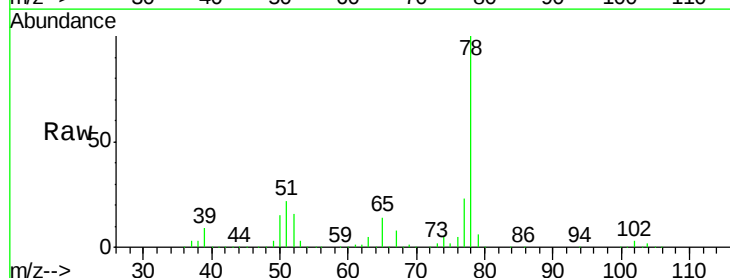
Manual Integrations
APPROVED

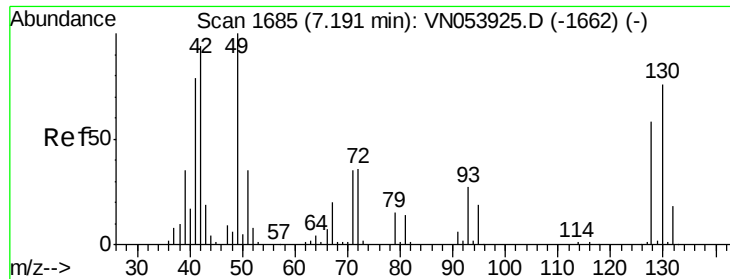
MMDadoda
2/28/2019 10:48:44 AM



#40
Benzene
Concen: 49.554 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2





#41

Methacrylonitrile

Concen: 41.129 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.02 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 41 Resp: 183727
Ion Ratio Lower Upper

41 100

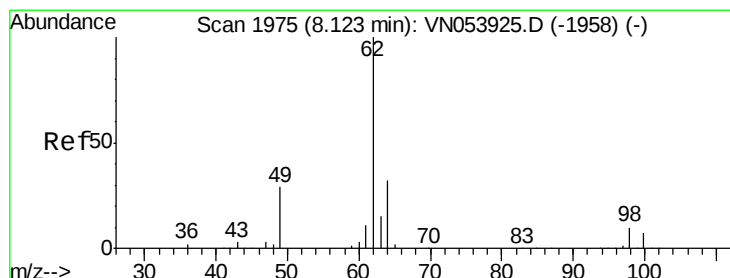
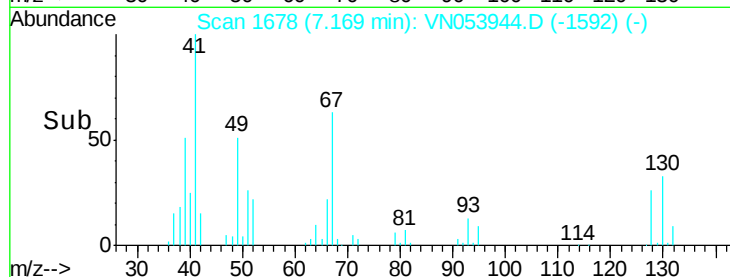
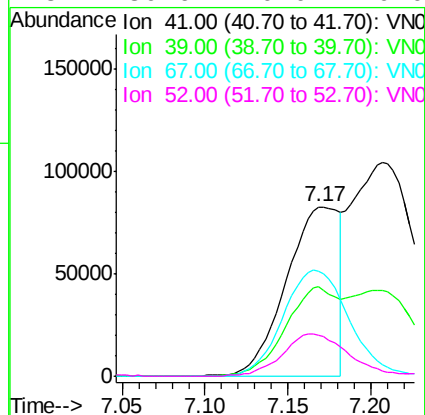
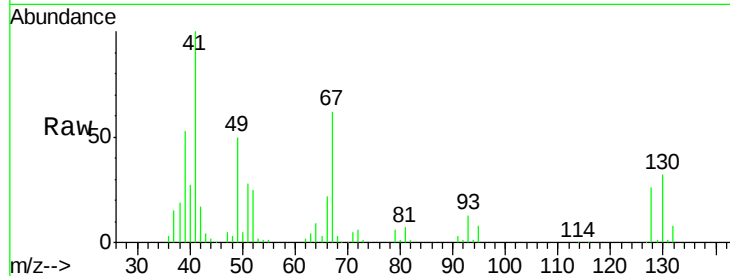
39 51.4 0.0 0.0#

67 79.4 0.0 0.0#

52 30.6 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#42

1,2-Dichloroethane

Concen: 49.861 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

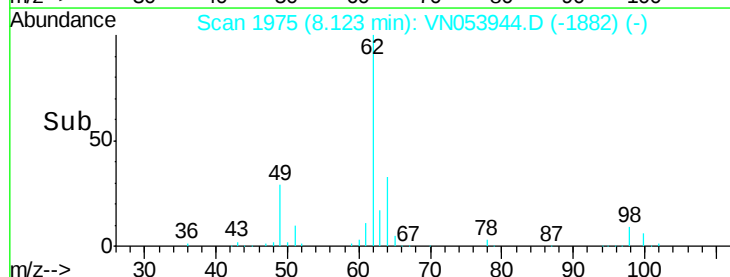
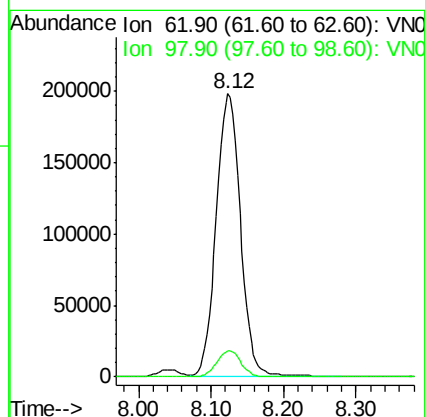
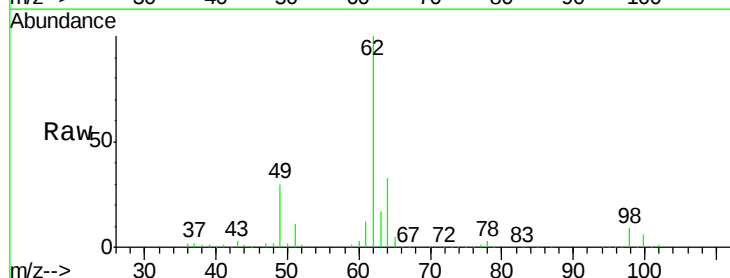
Lab File: VN053944.D

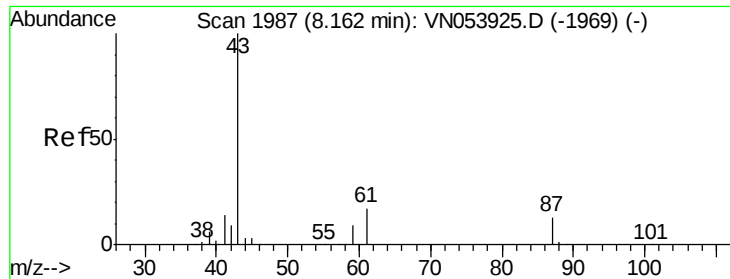
Acq: 25 Feb 2019 21:50

Tgt Ion: 62 Resp: 460742
Ion Ratio Lower Upper

62 100

98 9.3 0.0 20.8





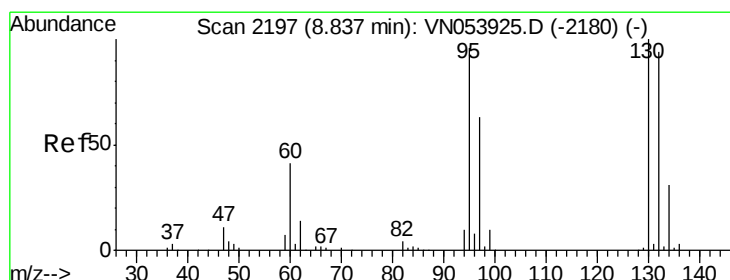
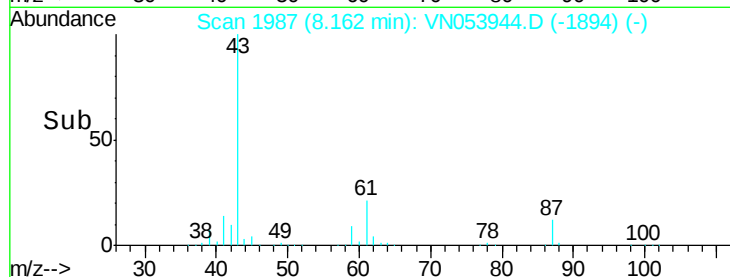
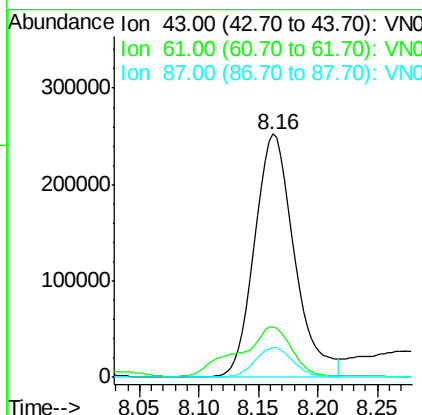
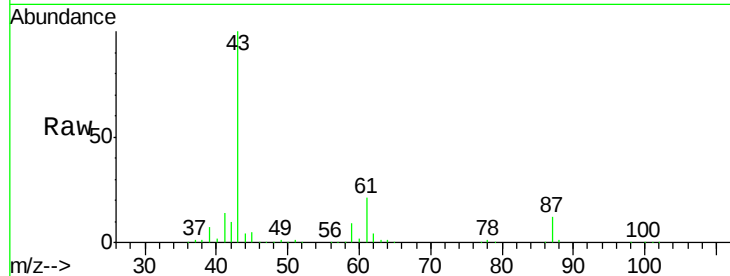
#43
Isopropyl Acetate
Concen: 49.889 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.6	17.4	26.0#
87	12.1	11.5	17.3

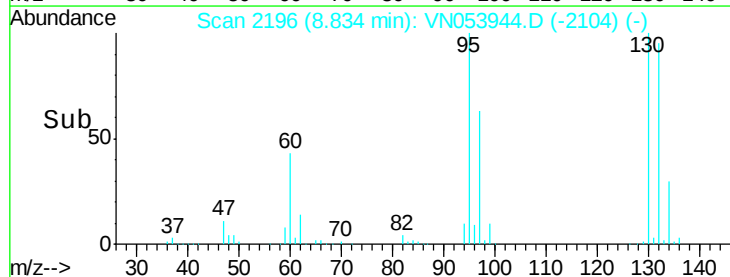
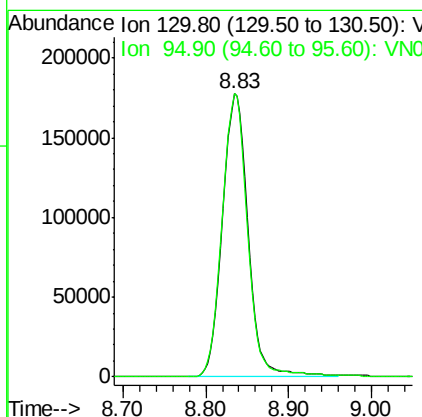
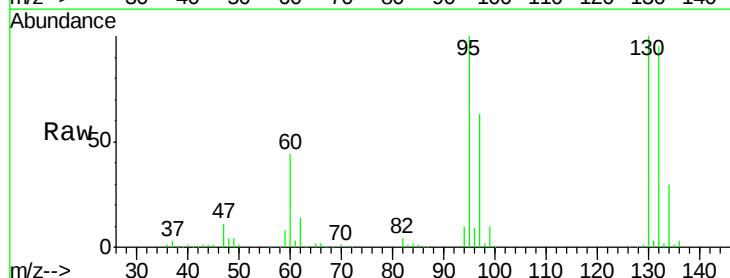
Manual Integrations
APPROVED

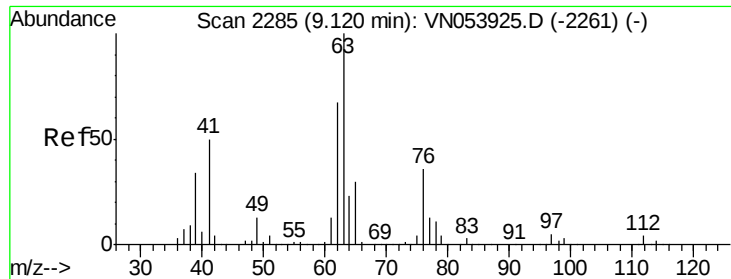
MMDadoda
2/28/2019 10:48:44 AM



#44
Trichloroethene
Concen: 48.469 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.0	0.0	190.0





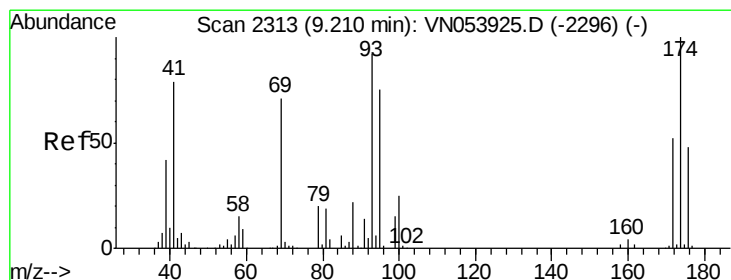
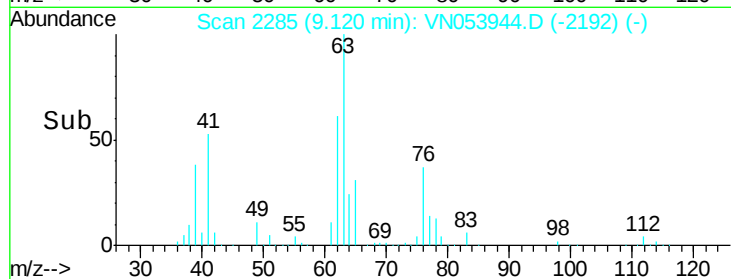
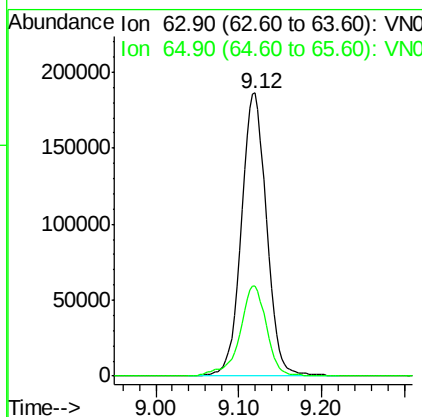
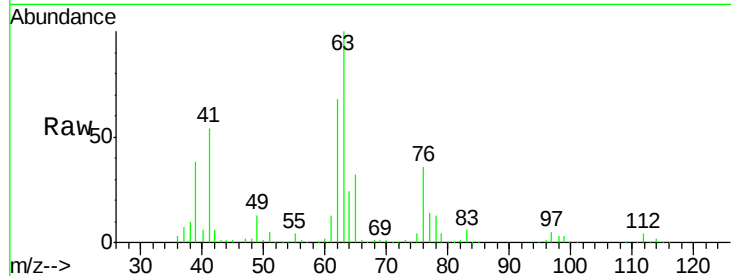
#45
 1,2-Dichloropropane
 Concen: 49.067 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.3	36.5

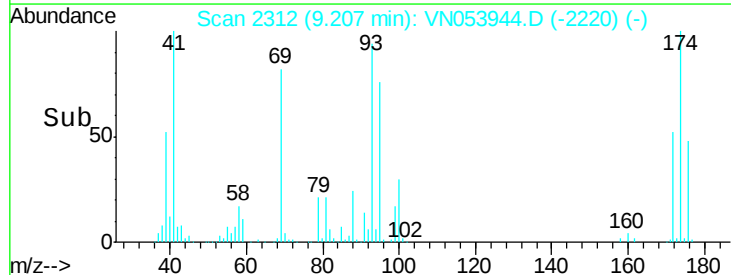
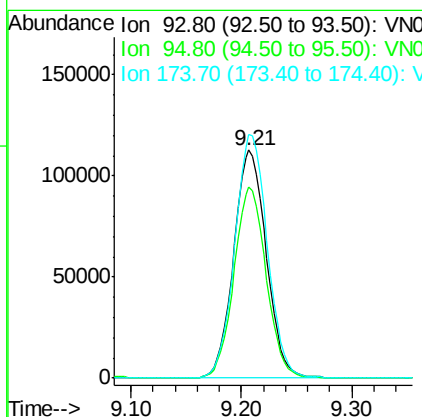
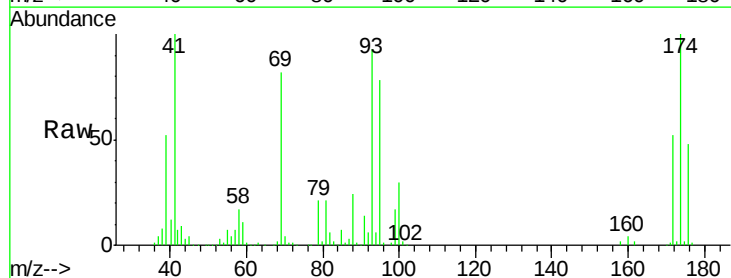
Manual Integrations
 APPROVED

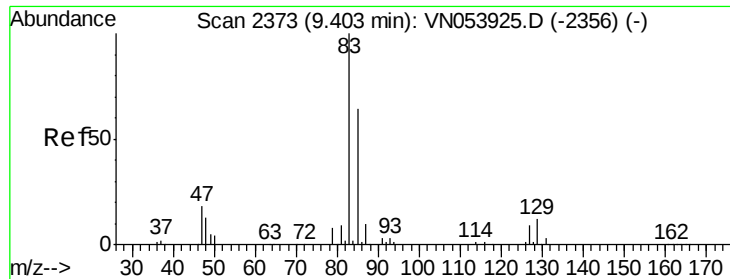
MMDadoda
 2/28/2019 10:48:44 AM



#46
 Dibromomethane
 Concen: 49.387 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.9	66.6	100.0
174	106.9	96.2	144.4





#47

Bromodichloromethane

Concen: 49.064 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

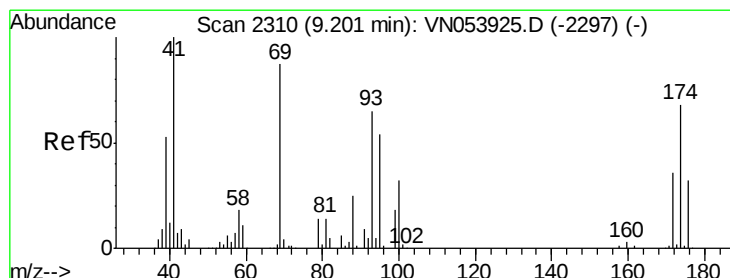
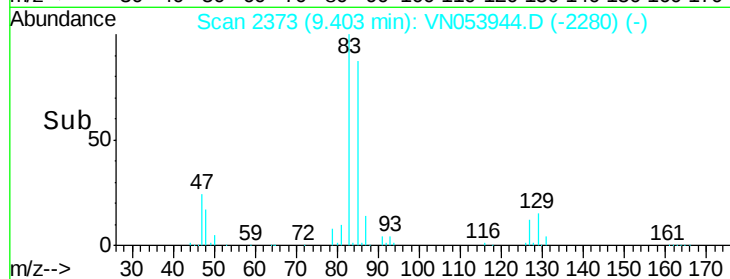
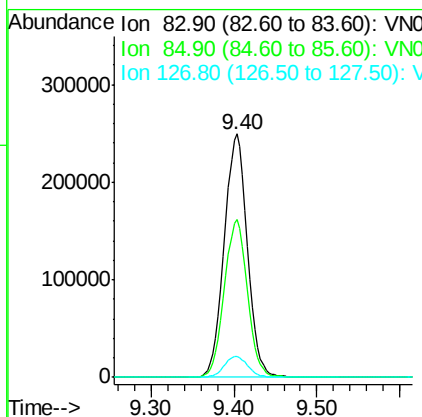
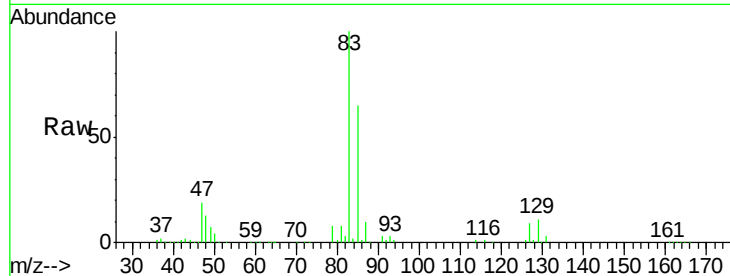
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	483385
Ion Ratio	Lower	Upper	
83	100		
85	64.8	51.8	77.6
127	8.6	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#48

Methyl methacrylate

Concen: 52.094 ug/l

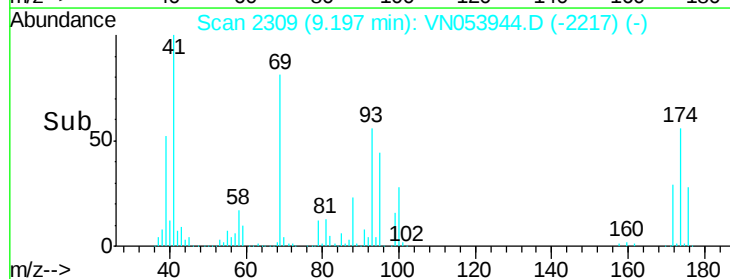
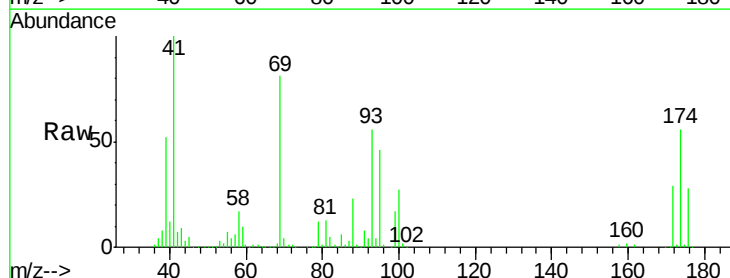
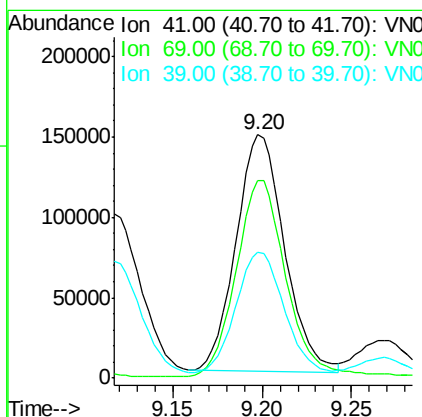
RT: 9.20 min Scan# 2309

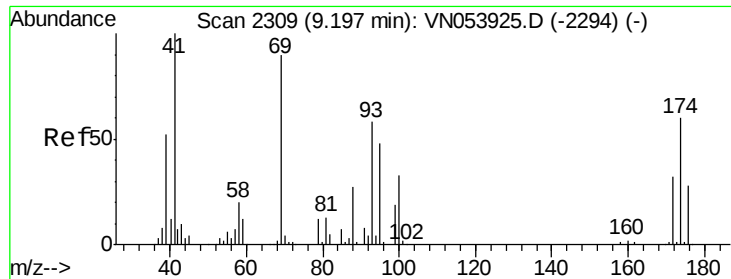
Delta R.T. -0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion:	41	Resp:	280670
Ion Ratio	Lower	Upper	
41	100		
69	88.3	74.8	112.2
39	54.2	39.0	58.6





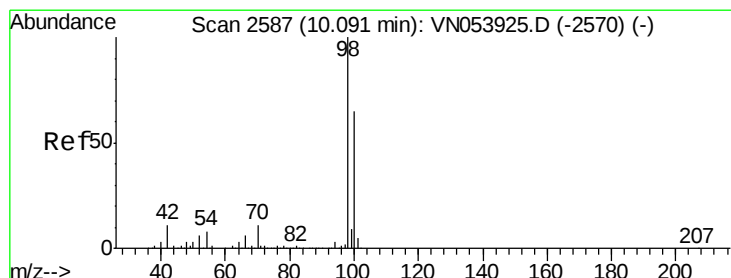
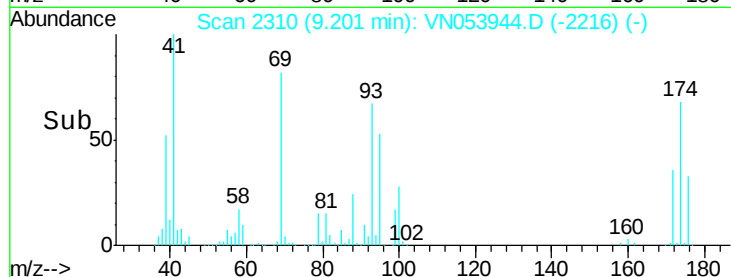
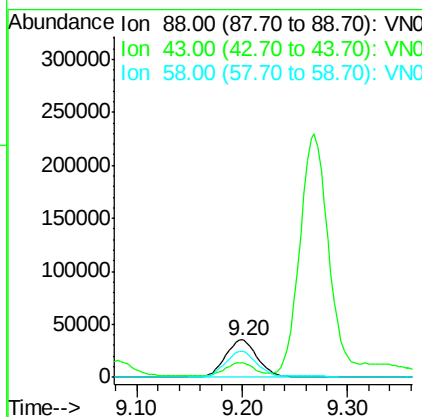
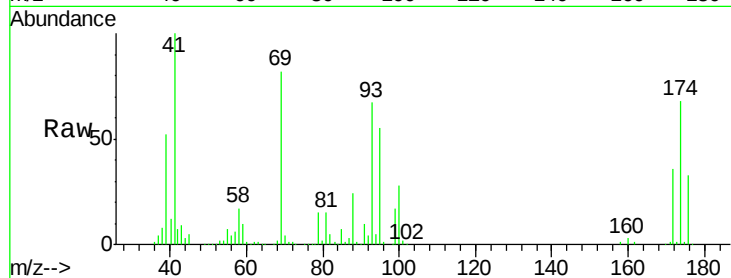
#49
1,4-Dioxane
Concen: 1030.899 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 88 Resp: 75228
Ion Ratio Lower Upper
88 100
43 32.2 21.2 31.8#
58 69.6 54.2 81.2

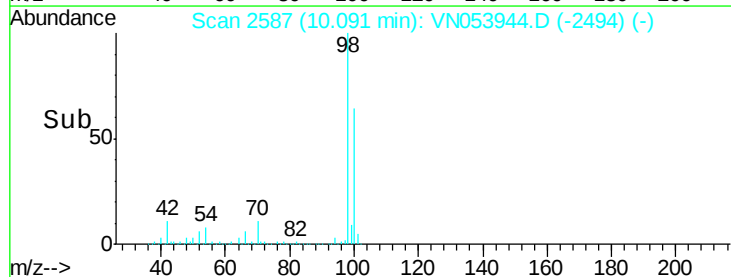
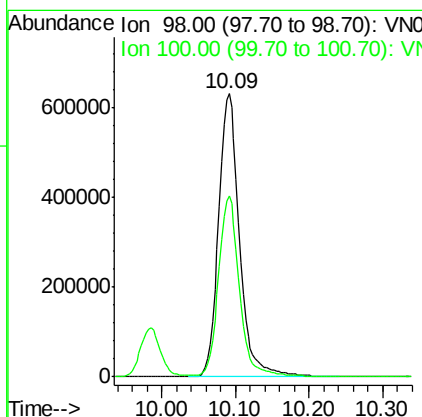
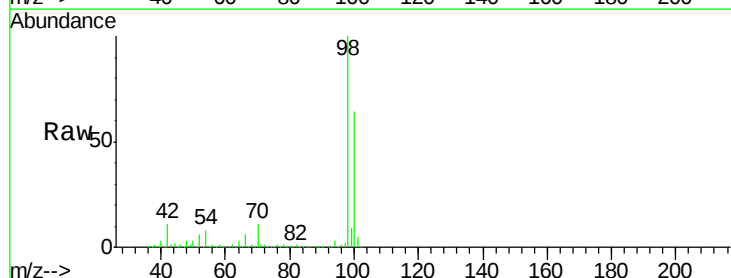
Manual Integrations
APPROVED

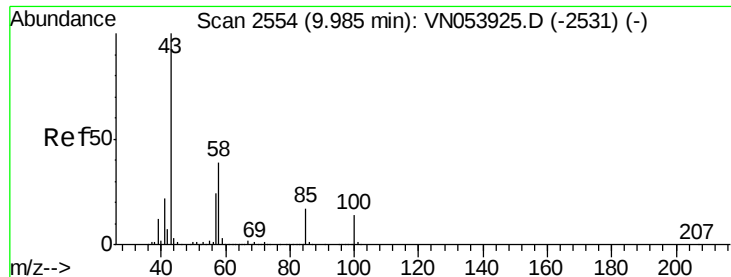
MMDadoda
2/28/2019 10:48:44 AM



#50
Toluene-d8
Concen: 49.415 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion: 98 Resp: 1242750
Ion Ratio Lower Upper
98 100
100 64.2 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 261.752 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1575499

Ion Ratio Lower Upper

43 100

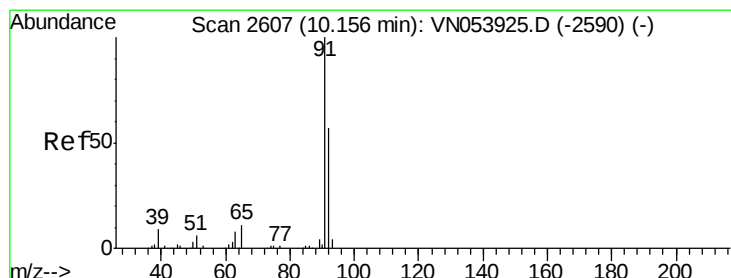
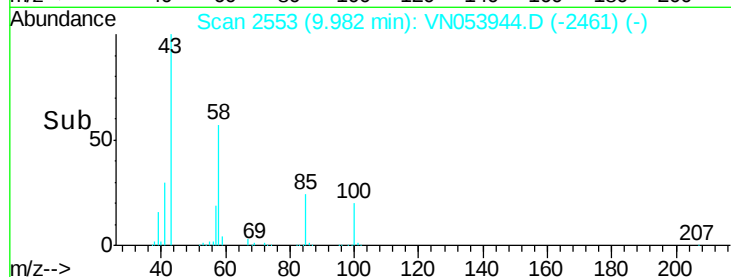
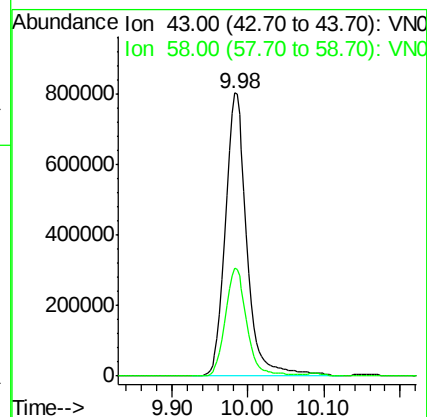
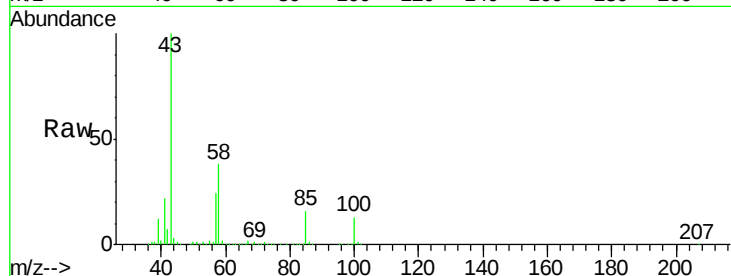
58 38.3 32.7 49.1

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:48:44 AM



#52

Toluene

Concen: 49.754 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053944.D

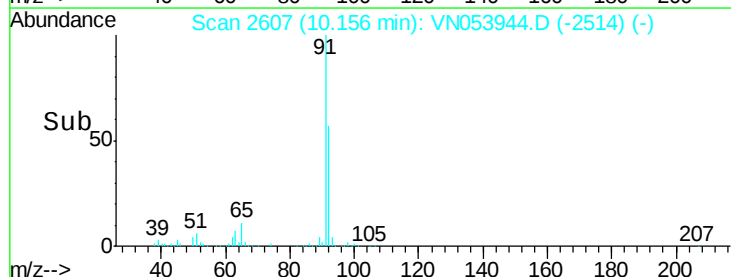
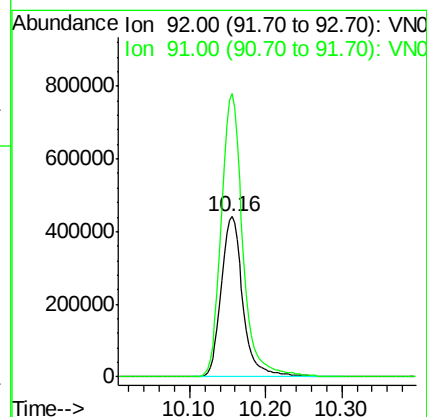
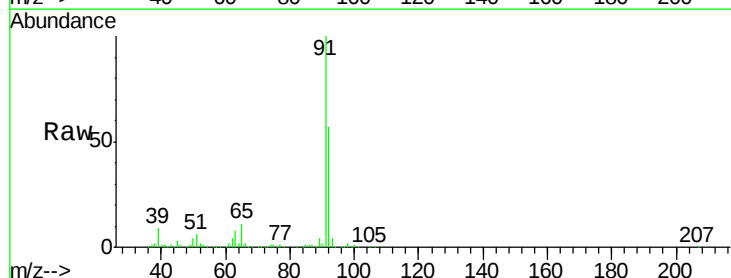
Acq: 25 Feb 2019 21:50

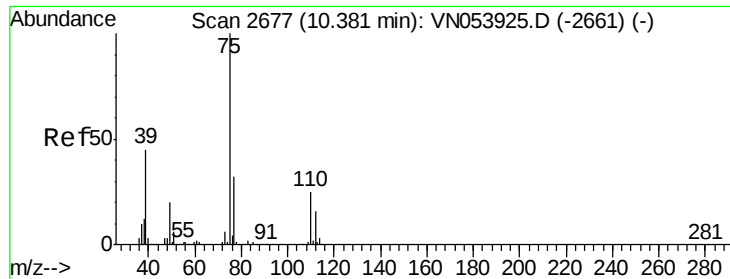
Tgt Ion: 92 Resp: 874425

Ion Ratio Lower Upper

92 100

91 175.0 138.4 207.6





#53

t-1,3-Dichloropropene

Concen: 50.844 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 487396

Ion Ratio Lower Upper

75 100

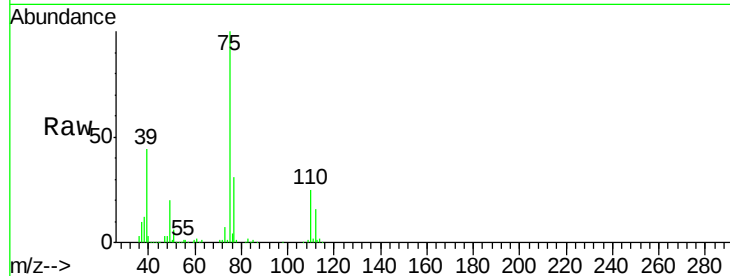
77 31.3 25.0 37.6

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:48:44 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

250000

200000

150000

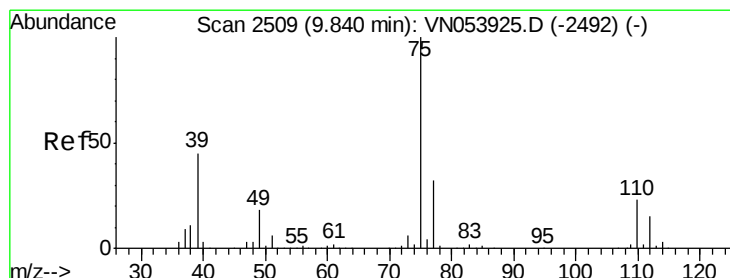
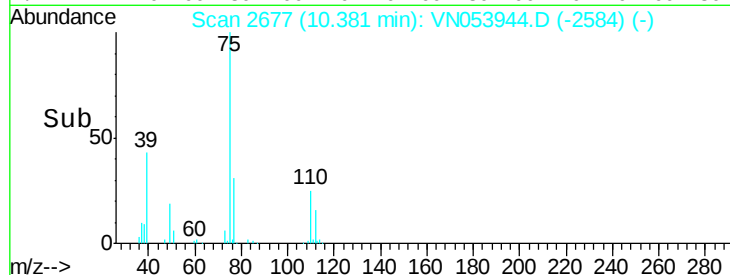
100000

50000

0

Time-->

10.30 10.40 10.50



#54

cis-1,3-Dichloropropene

Concen: 50.040 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

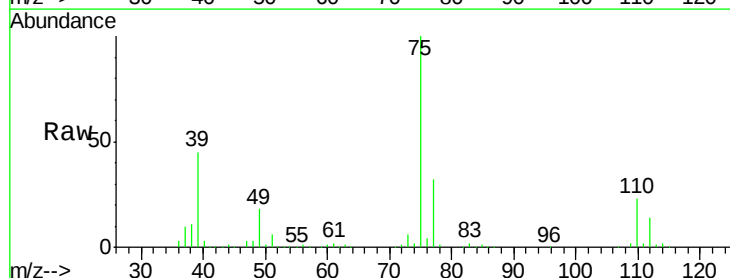
Tgt Ion: 75 Resp: 565498

Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.6

39 45.2 31.4 47.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.84

400000

300000

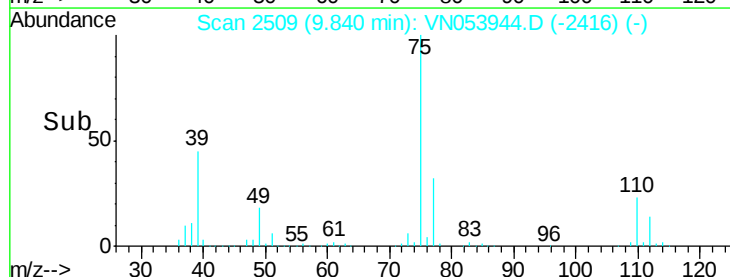
200000

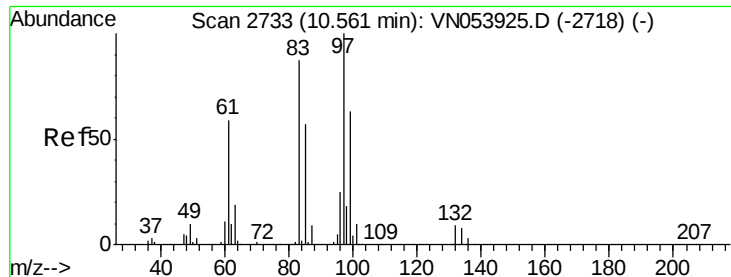
100000

0

Time-->

9.70 9.80 9.90 10.00





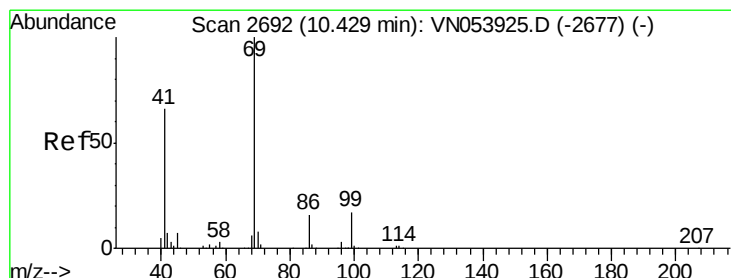
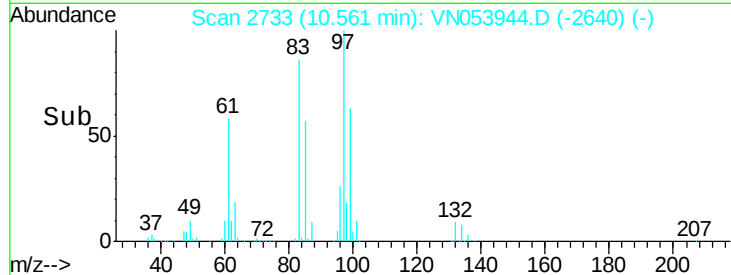
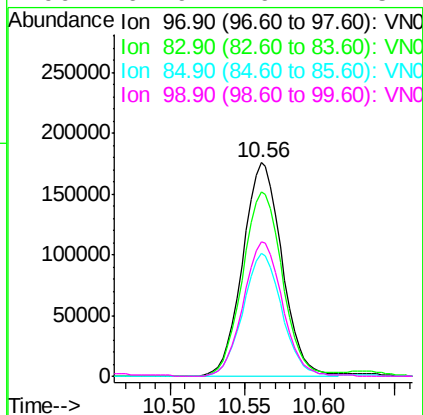
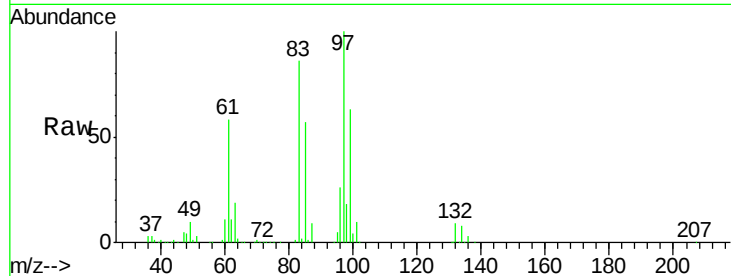
#55
 1,1,2-Trichloroethane
 Concen: 48.898 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	320946
Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.5	104.3
85	57.4	45.9	68.9
99	62.9	49.1	73.7

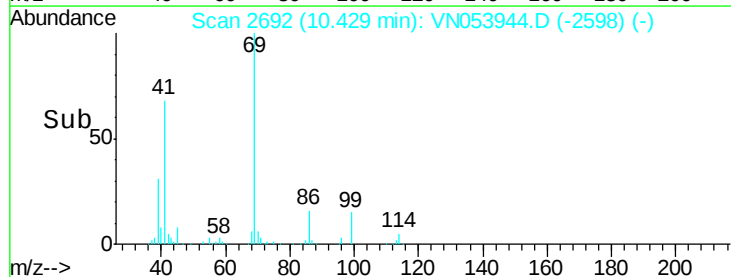
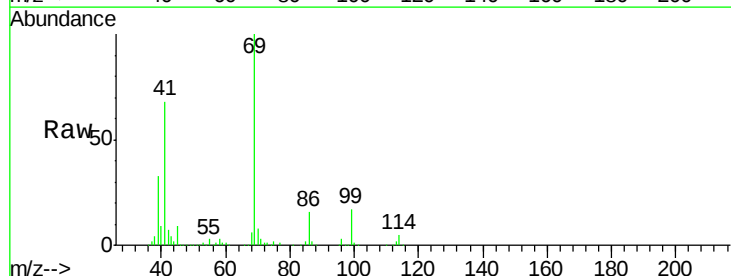
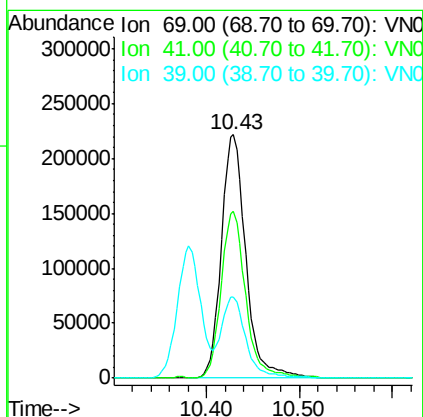
Manual Integrations
 APPROVED

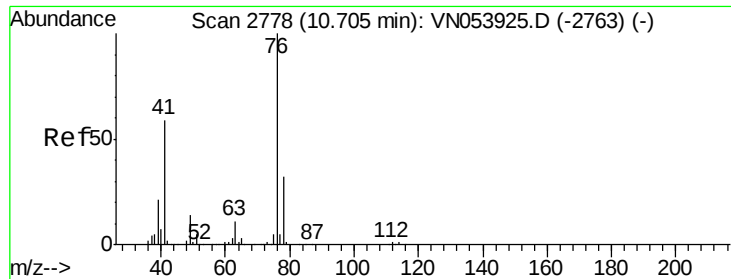
MMDadoda
 2/28/2019 10:48:44 AM



#56
 Ethyl methacrylate
 Concen: 47.398 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion:	69	Resp:	407009
Ion	Ratio	Lower	Upper
69	100		
41	67.6	47.5	71.3
39	33.3	23.4	35.0





#57

1,3-Dichloropropane

Concen: 50.326 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 558118

Ion Ratio Lower Upper

76 100

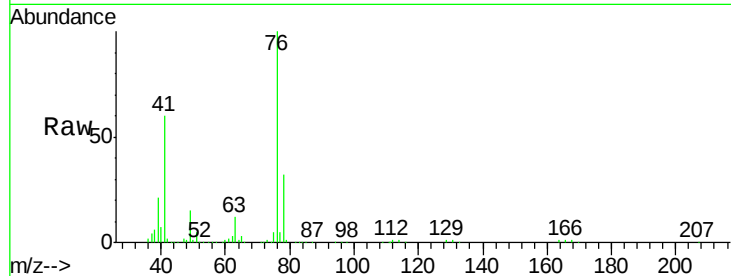
78 31.8 25.2 37.8

Manual Integrations

APPROVED

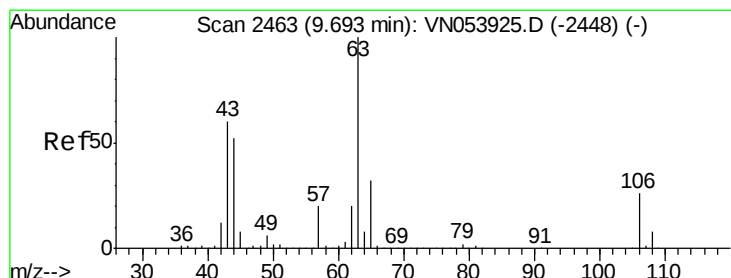
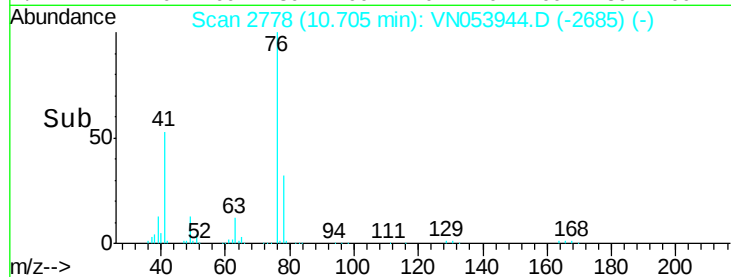
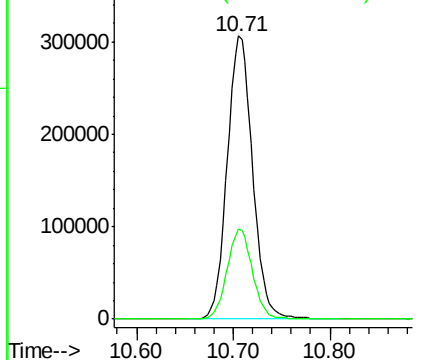
MMDadoda

2/28/2019 10:48:44 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 238.236 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN053944.D

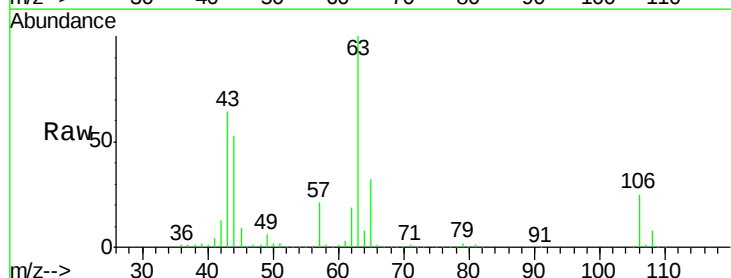
Acq: 25 Feb 2019 21:50

Tgt Ion: 63 Resp: 951848

Ion Ratio Lower Upper

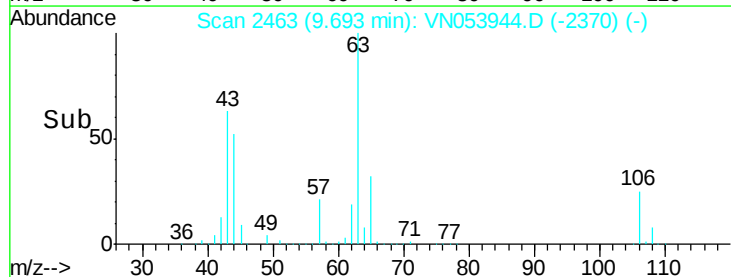
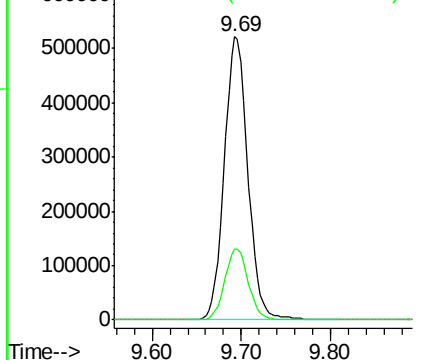
63 100

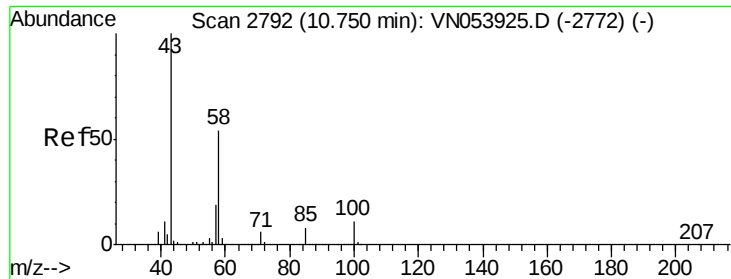
106 25.0 22.2 33.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





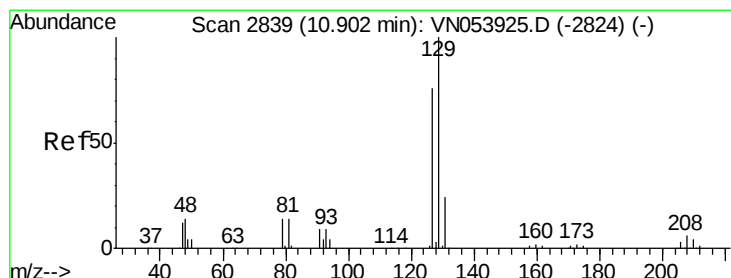
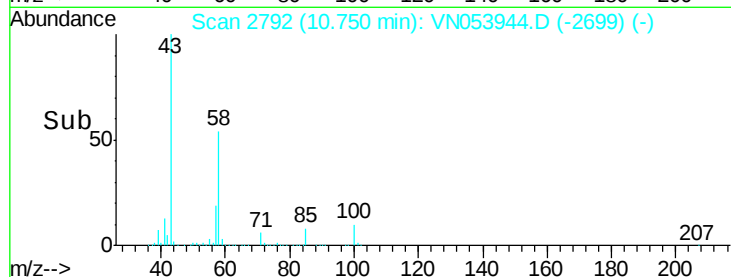
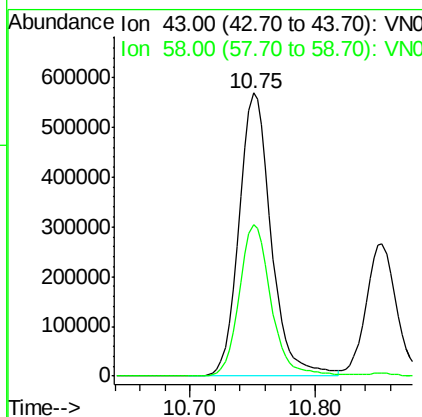
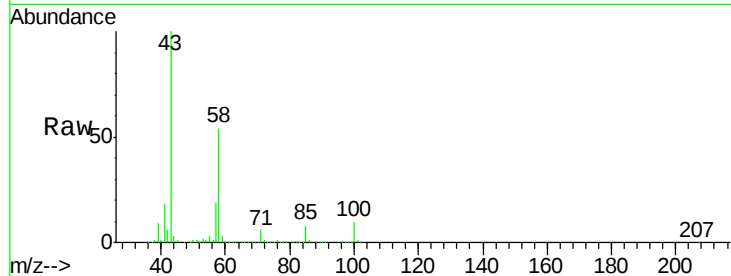
#59
2-Hexanone
Concen: 257.107 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1006494
Ion Ratio Lower Upper
43 100
58 53.4 29.1 87.4

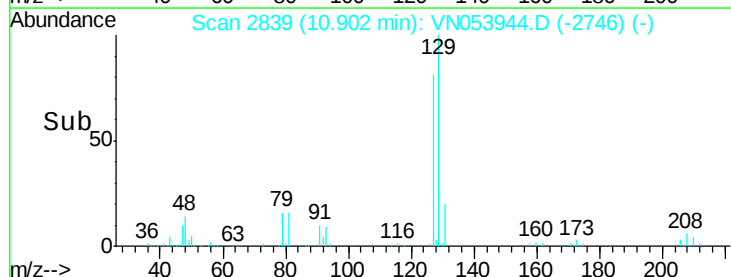
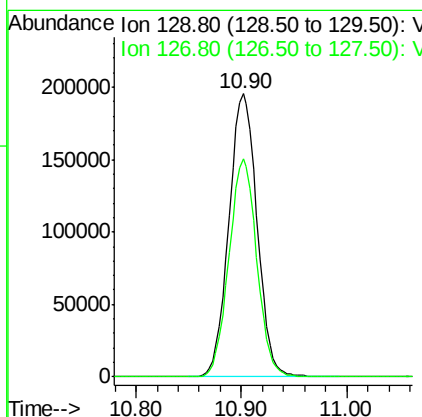
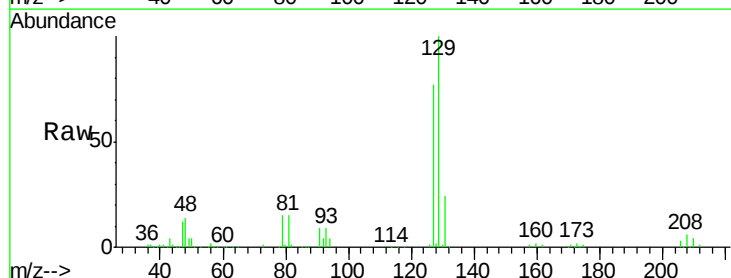
Manual Integrations
APPROVED

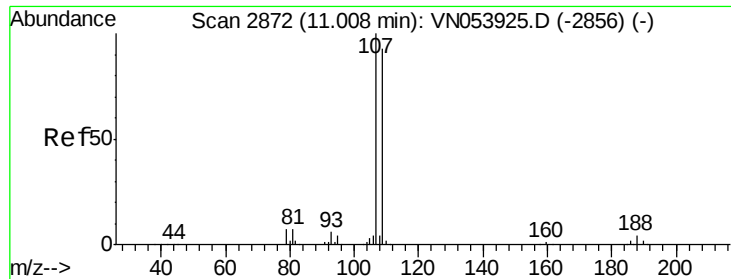
MMDadoda
2/28/2019 10:48:44 AM



#60
Dibromochloromethane
Concen: 49.614 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion: 129 Resp: 361912
Ion Ratio Lower Upper
129 100
127 75.9 38.8 116.3





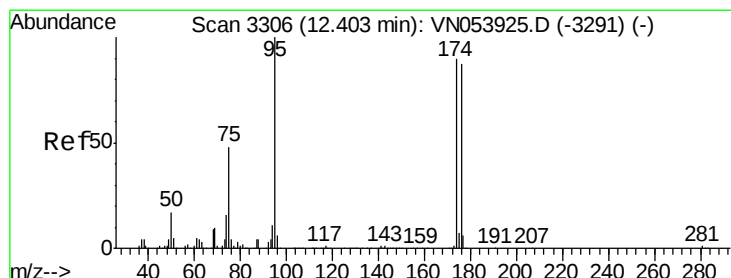
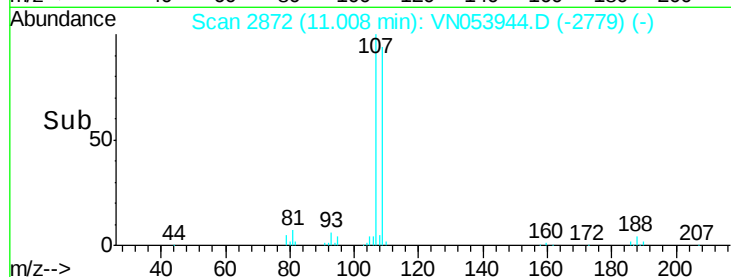
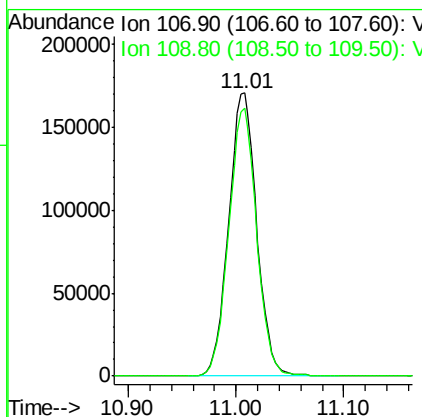
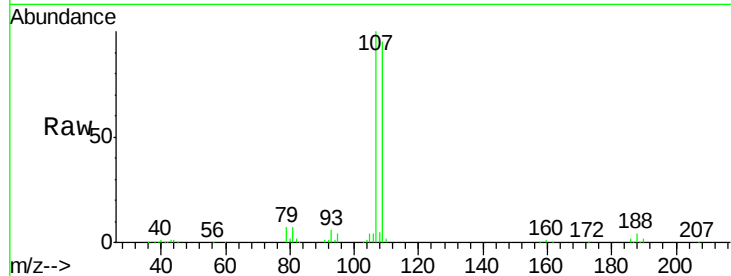
#61
 1,2-Dibromoethane
 Concen: 48.988 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.3	114.5

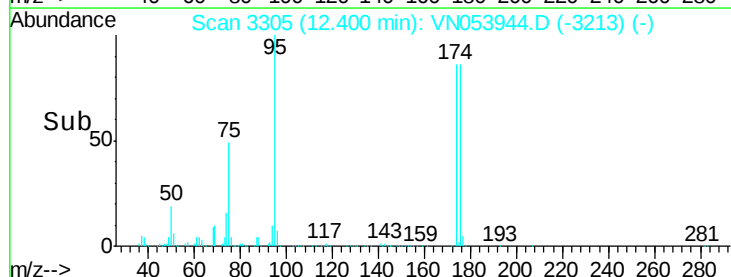
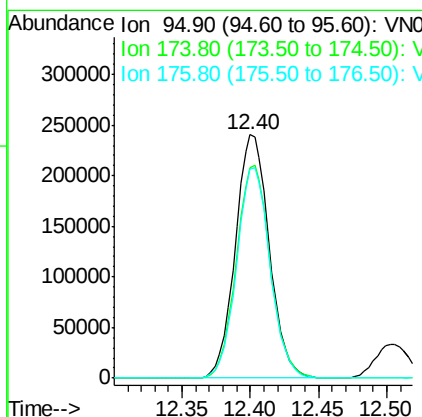
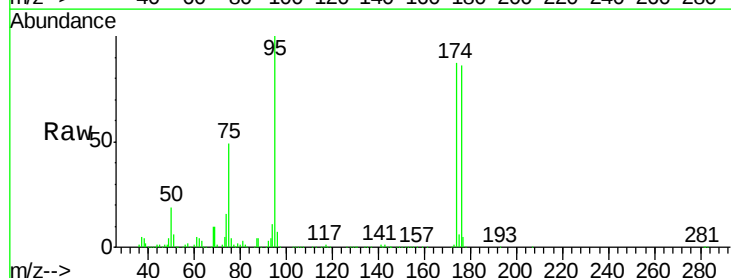
Manual Integrations
 APPROVED

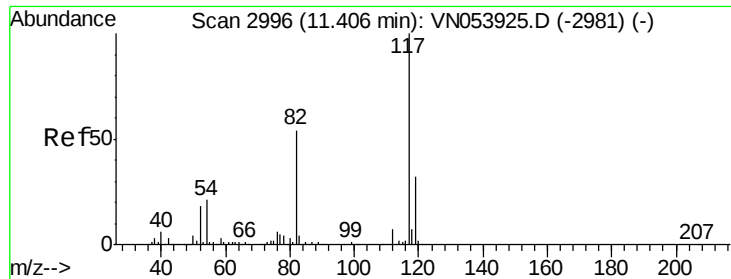
MMDadoda
 2/28/2019 10:48:44 AM



#62
 4-Bromofluorobenzene
 Concen: 49.429 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	188.8
176	85.4	0.0	182.6





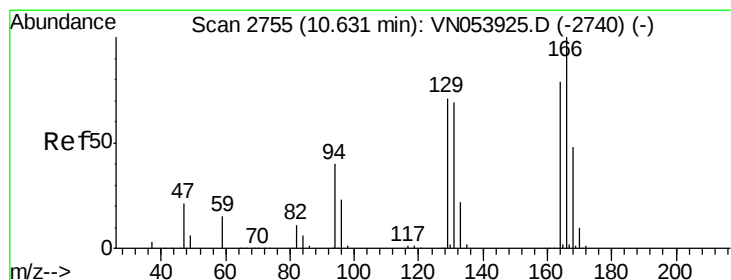
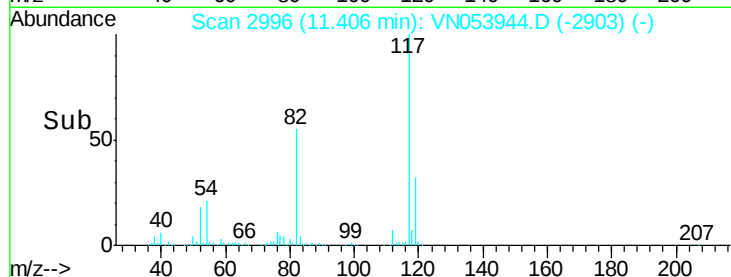
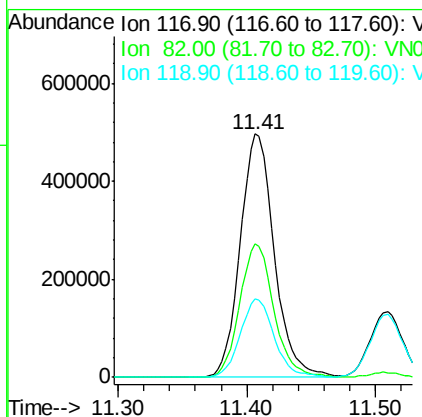
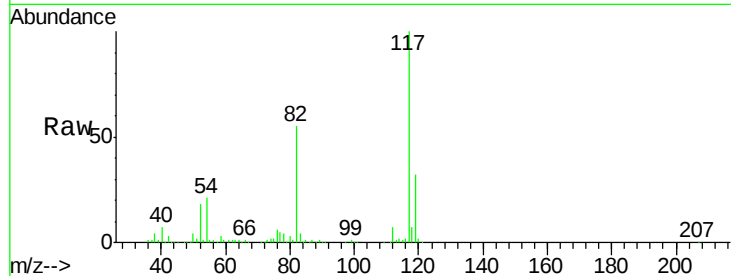
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
117	100	915255		
82	54.7		41.4	62.2
119	32.2		25.3	37.9

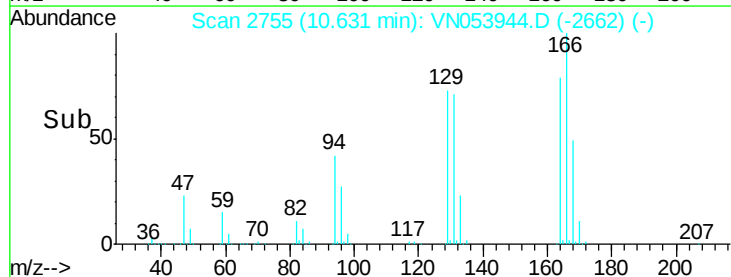
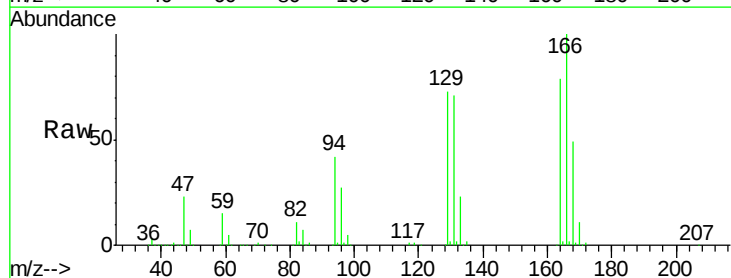
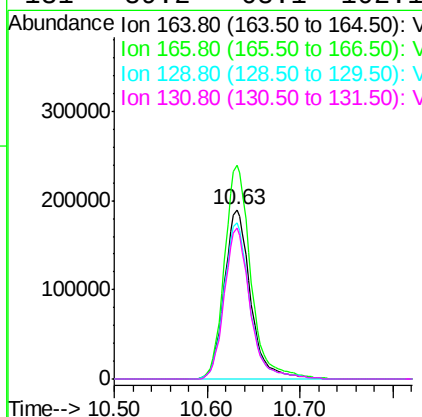
Manual Integrations
APPROVED

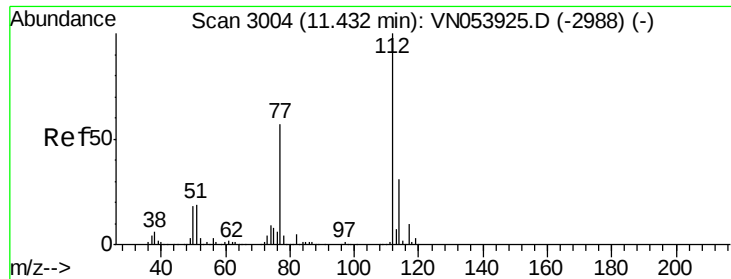
MMDadoda
2/28/2019 10:48:44 AM



#64
Tetrachloroethene
Concen: 47.984 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	371883		
166	126.2		102.6	153.8
129	91.9		69.4	104.0
131	89.2		68.1	102.1





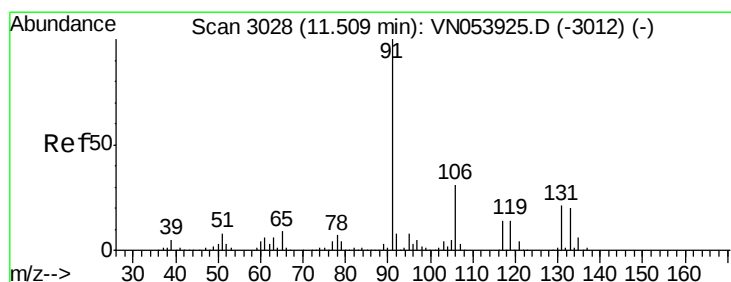
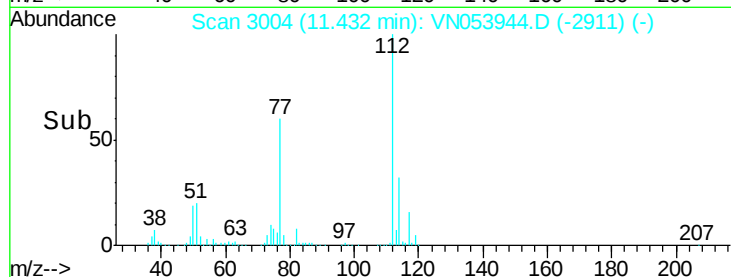
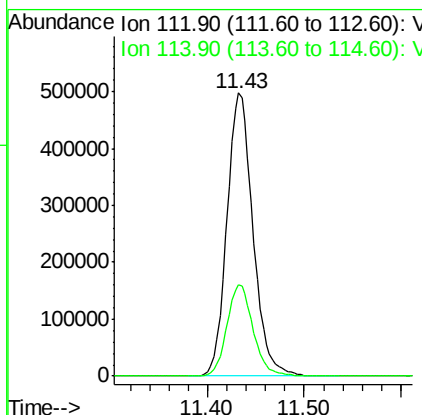
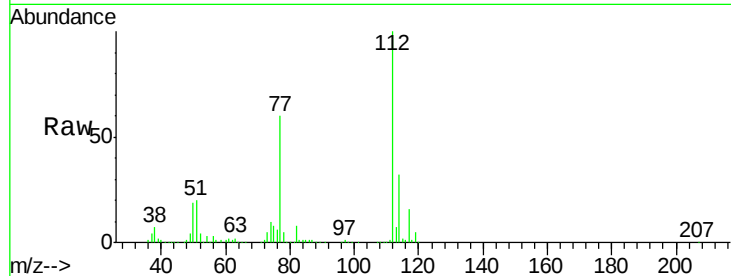
#65
Chlorobenzene
Concen: 48.097 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 929053
Ion Ratio Lower Upper
112 100
114 32.2 25.7 38.5

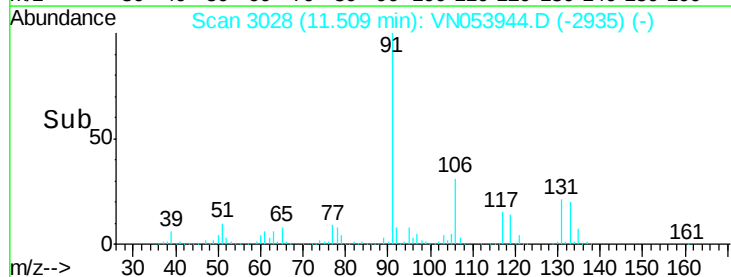
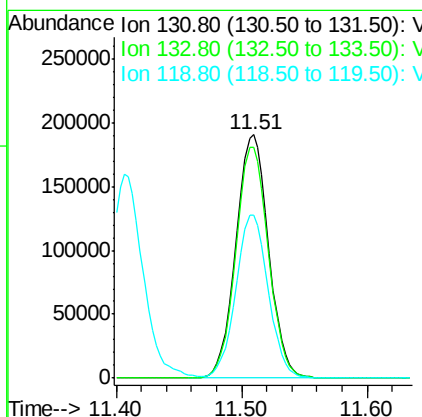
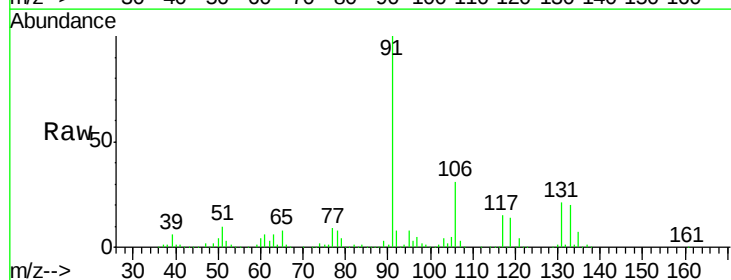
Manual Integrations
APPROVED

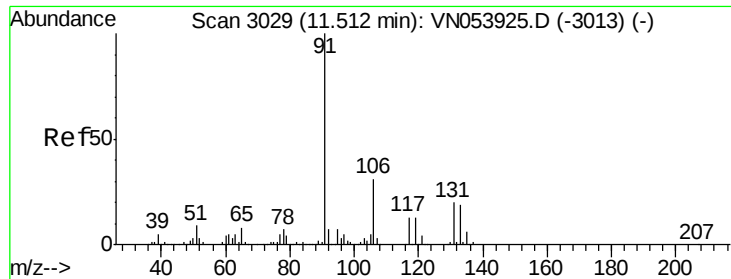
MMDadoda
2/28/2019 10:48:44 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.591 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion:131 Resp: 345231
Ion Ratio Lower Upper
131 100
133 94.6 47.7 143.1
119 66.5 33.1 99.3





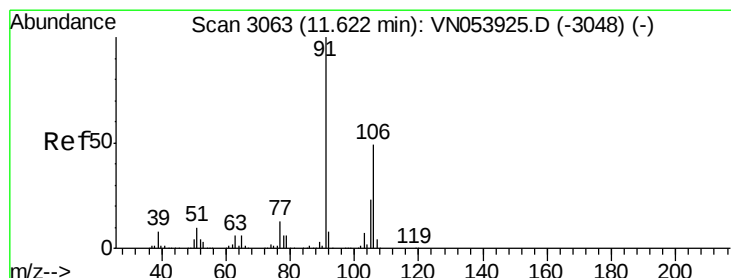
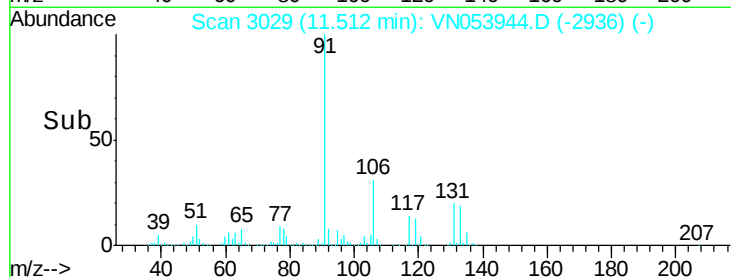
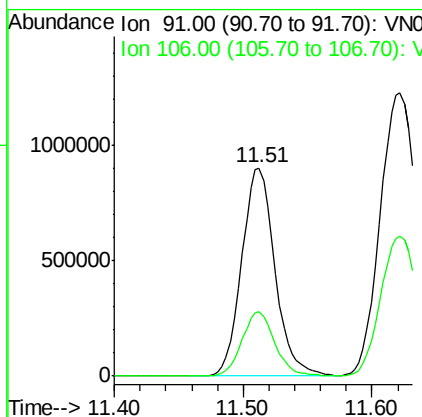
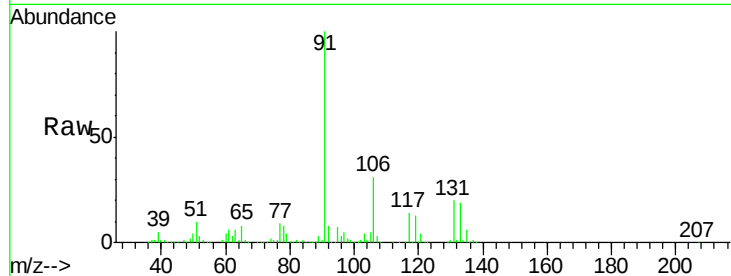
#67
Ethyl Benzene
Concen: 50.014 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1619554
Ion Ratio Lower Upper
91 100
106 30.8 25.2 37.8

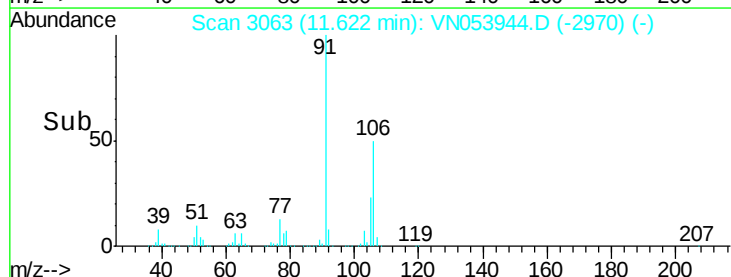
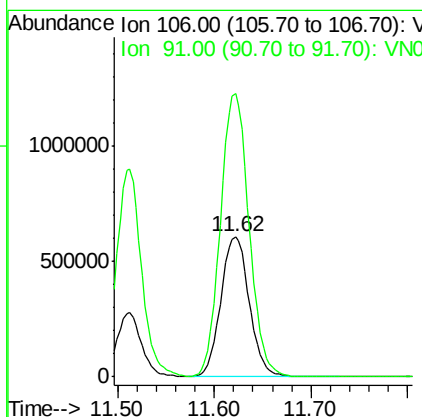
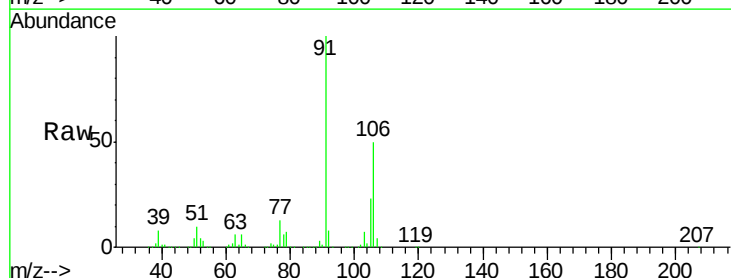
Manual Integrations
APPROVED

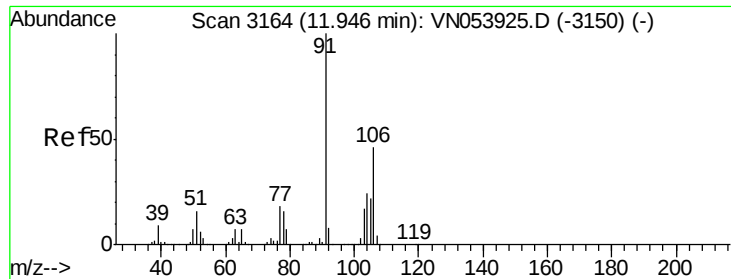
MMDadoda
2/28/2019 10:48:44 AM



#68
m/p-Xylenes
Concen: 101.445 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion: 106 Resp: 1239841
Ion Ratio Lower Upper
106 100
91 203.2 158.9 238.3





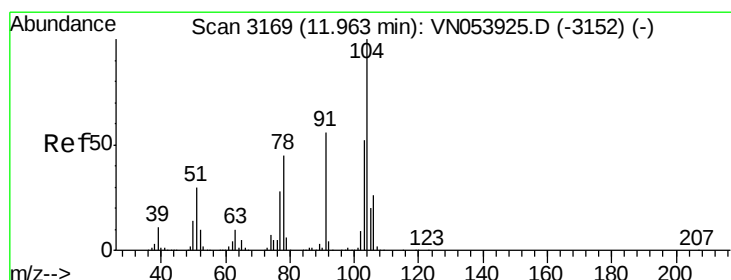
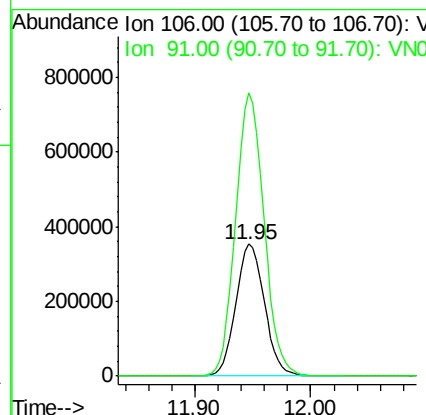
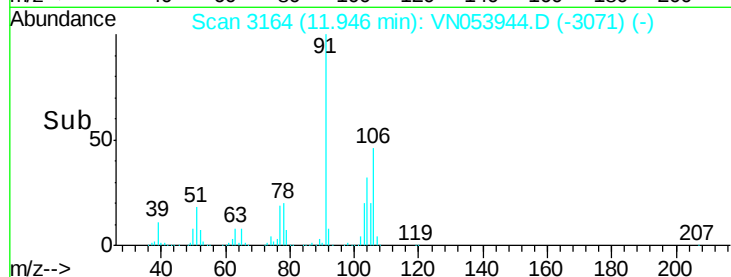
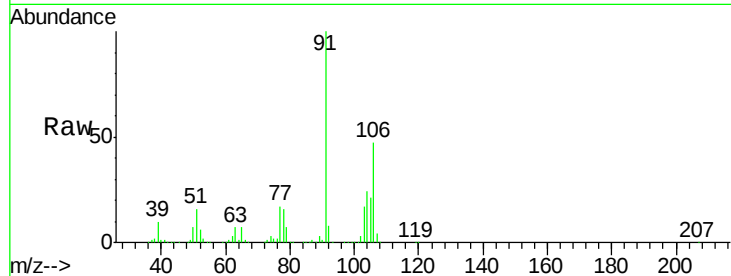
#69
o-Xylene
Concen: 50.163 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 602400
Ion Ratio Lower Upper
106 100
91 213.2 106.0 318.0

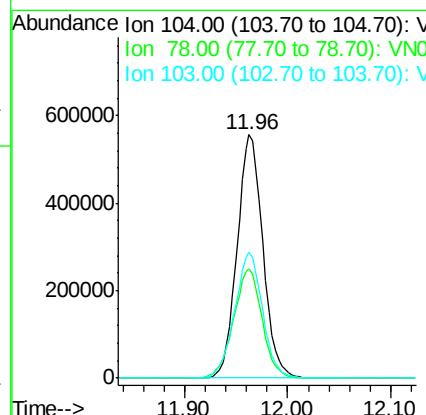
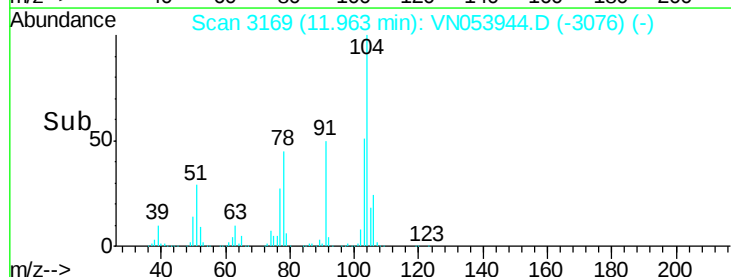
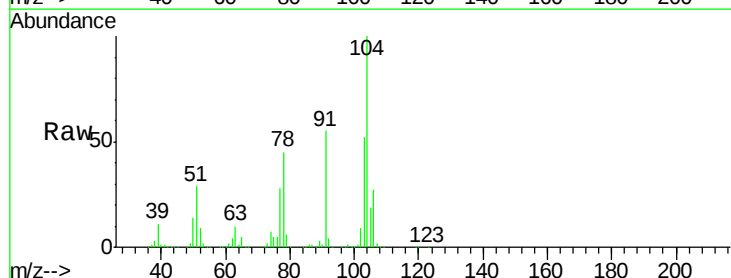
Manual Integrations
APPROVED

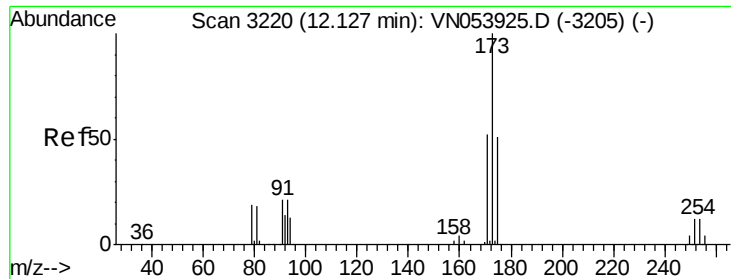
MMDadoda
2/28/2019 10:48:44 AM



#70
Styrene
Concen: 52.479 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion:104 Resp: 969331
Ion Ratio Lower Upper
104 100
78 49.4 38.1 57.1
103 55.7 44.6 67.0





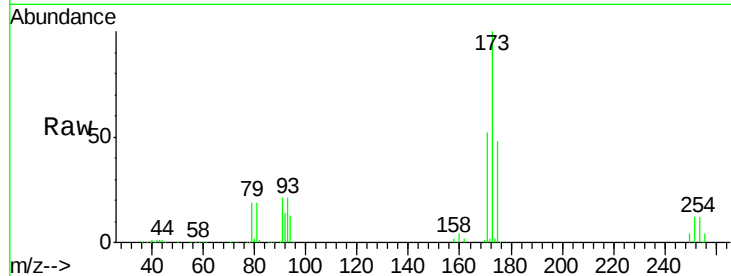
#71
Bromoform
Concen: 48.932 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

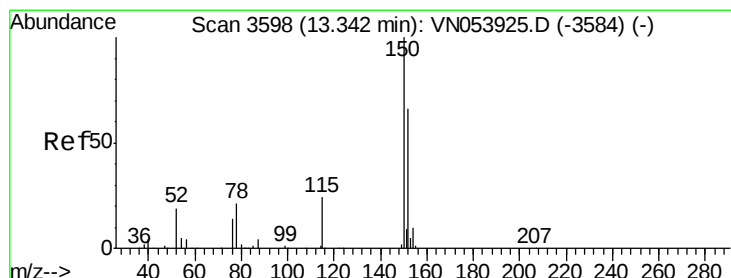
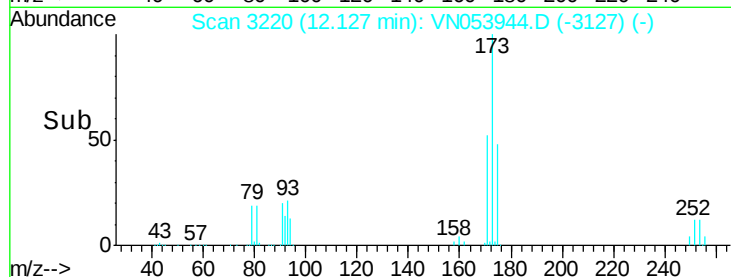
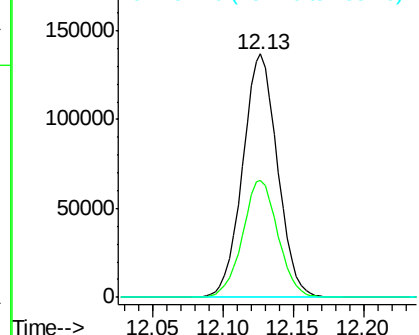
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.3	72.8
254	0.1	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM

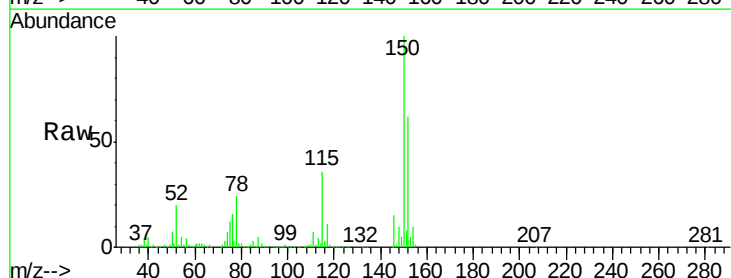


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

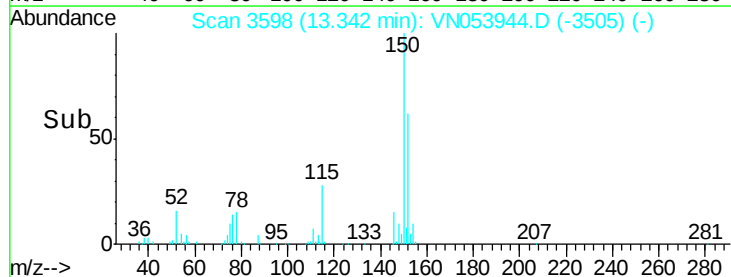
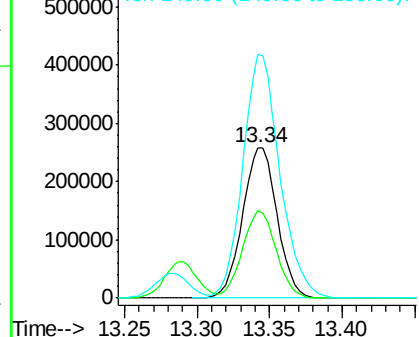


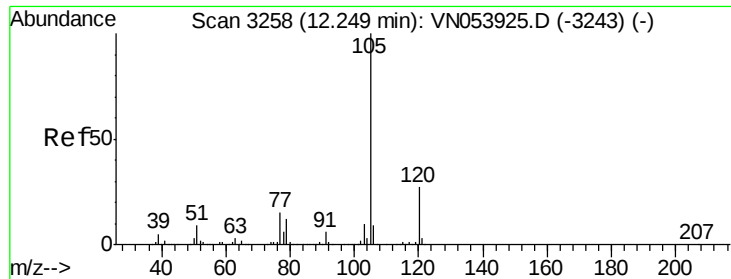
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	27.2	81.6
150	173.8	0.0	348.2



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





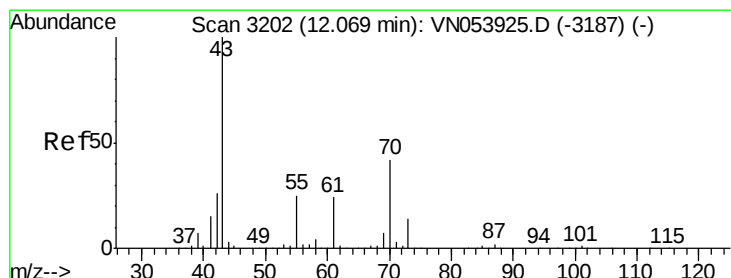
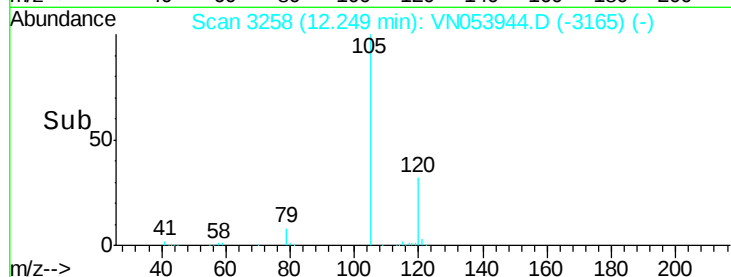
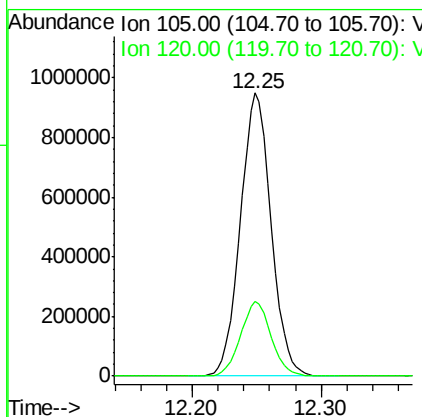
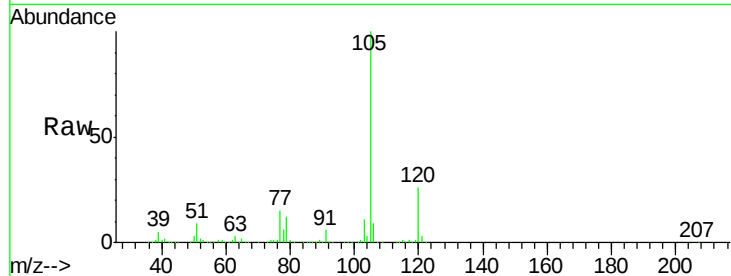
#73
Isopropylbenzene
Concen: 47.204 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleID :
VSTDCCC050EC

Tot Ion:105 Resp: 1568087
Ion Ratio Lower Upper
105 100
120 26.2 13.5 40.5

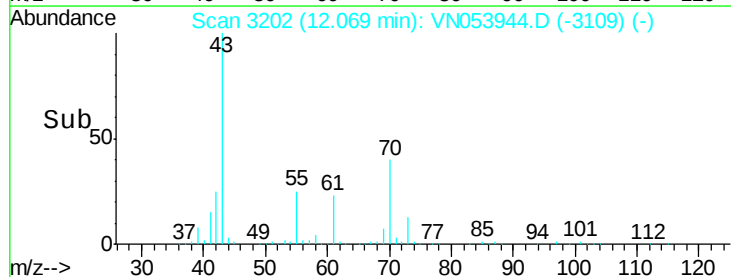
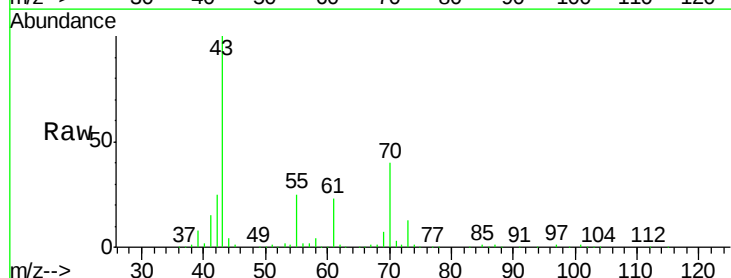
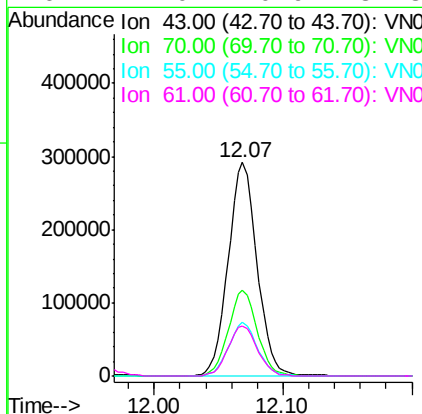
Manual Integrations
APPROVED

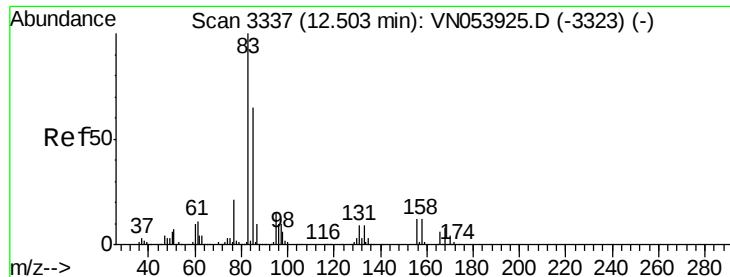
MMDadoda
2/28/2019 10:48:44 AM



#74
N-ethyl acetate
Concen: 51.710 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion: 43 Resp: 450218
Ion Ratio Lower Upper
43 100
70 40.3 37.4 56.2
55 25.3 21.4 32.0
61 24.0 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 46.347 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

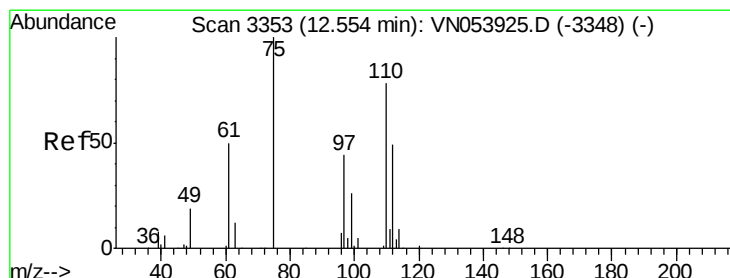
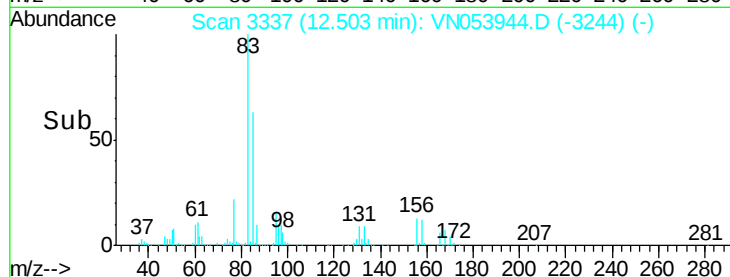
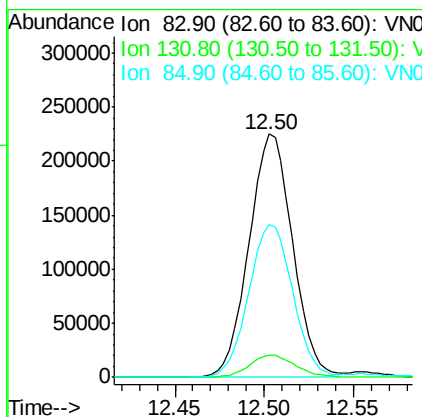
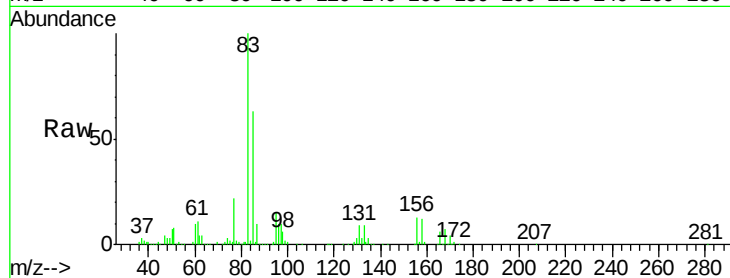
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	385005
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.3	16.1
85	63.5	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#76

1,2,3-Trichloropropane

Concen: 42.663 ug/l m

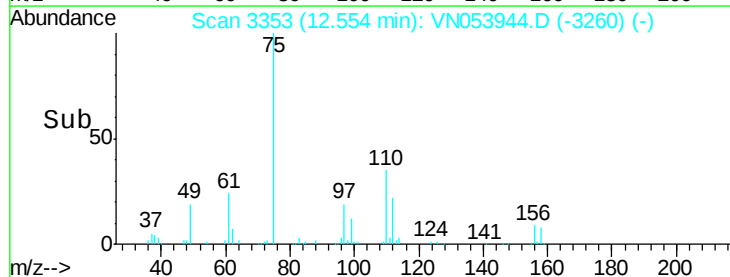
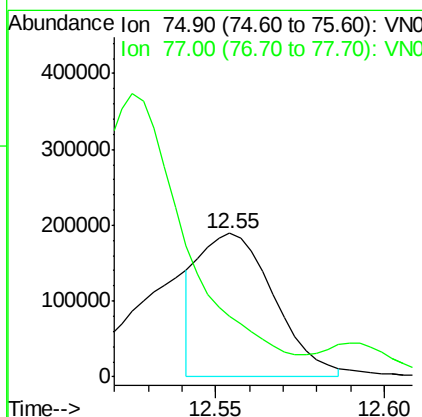
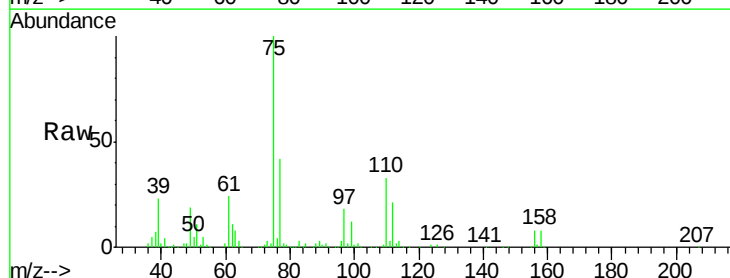
RT: 12.55 min Scan# 3353

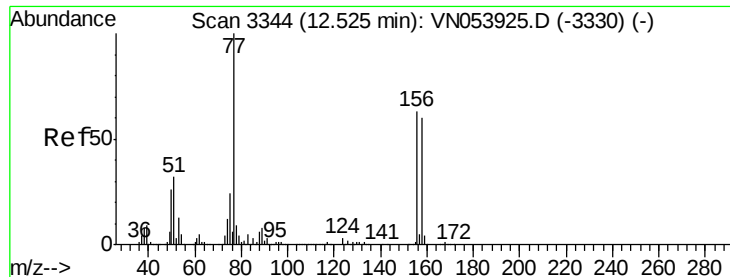
Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion:	75	Resp:	292060
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 46.824 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

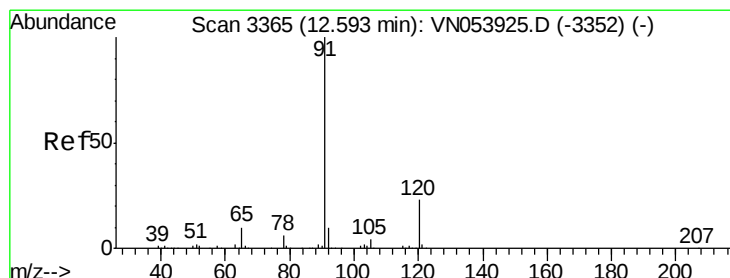
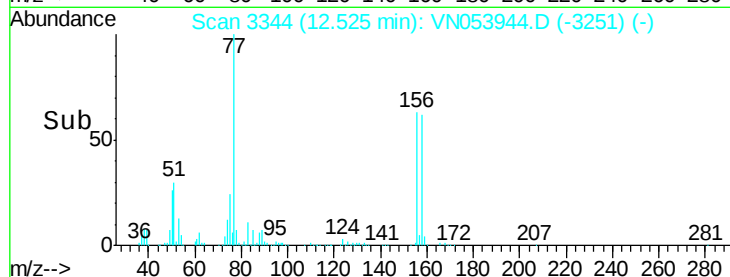
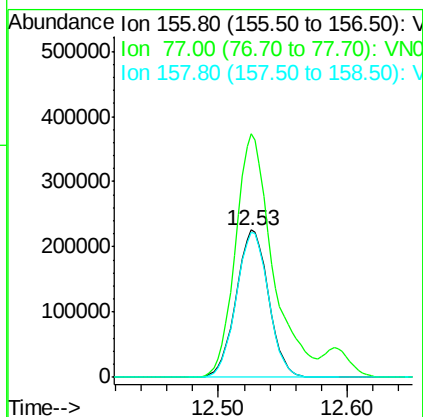
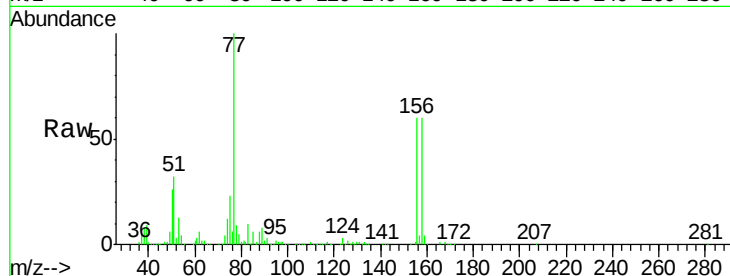
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	394917
Ion Ratio	Lower	Upper	
156	100		
77	189.7	84.0	252.2
158	98.2	48.5	145.6

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#78

n-propylbenzene

Concen: 48.383 ug/l

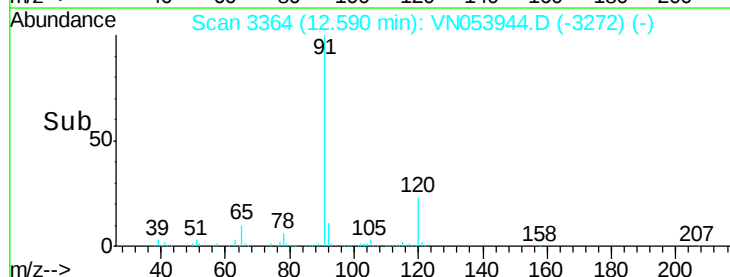
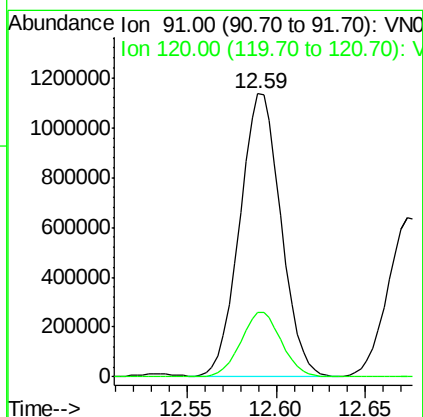
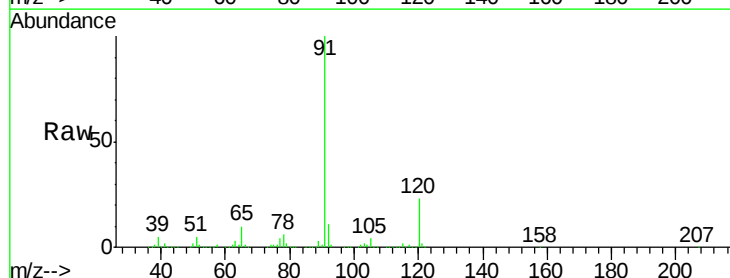
RT: 12.59 min Scan# 3364

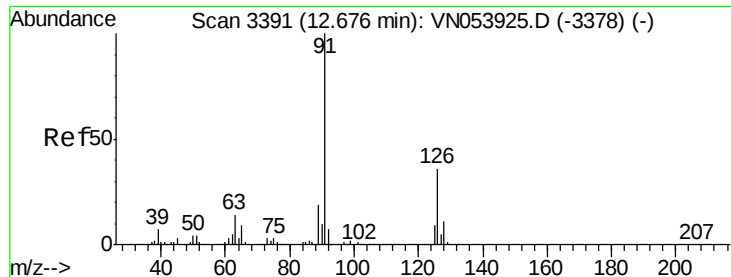
Delta R.T. -0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion:	91	Resp:	1827870
Ion Ratio	Lower	Upper	
91	100		
120	22.7	11.9	35.9





#79

2-Chlorotoluene

Concen: 47.710 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1082761

Ion Ratio Lower Upper

91 100

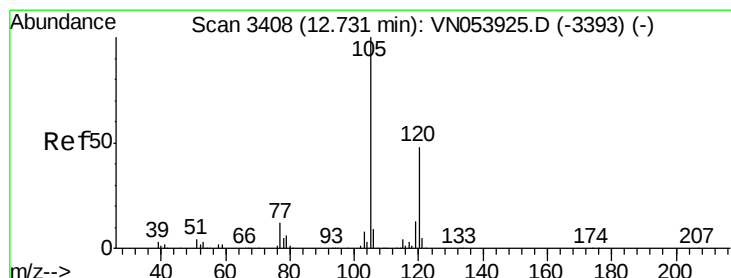
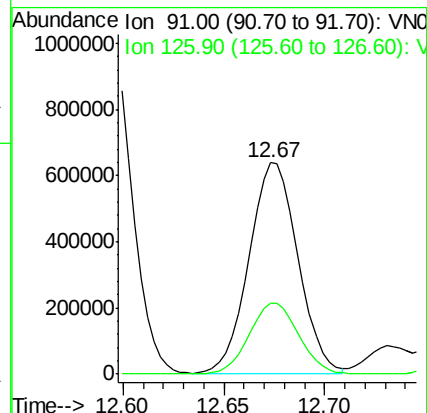
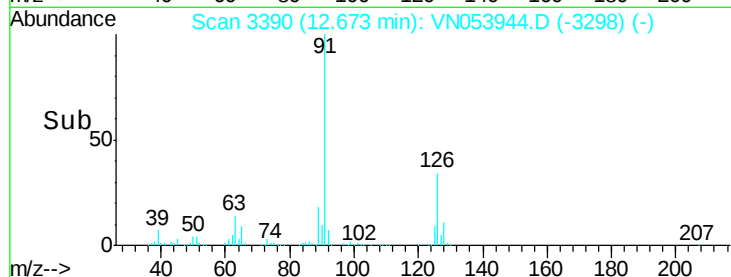
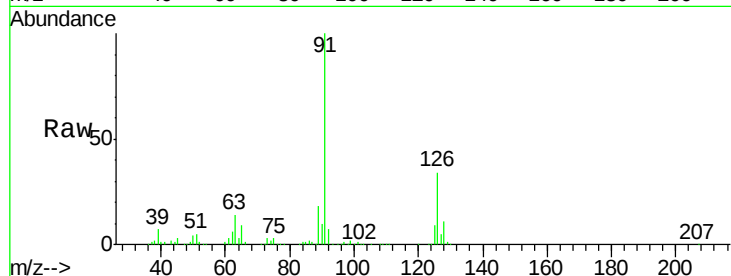
126 34.3 18.1 54.4

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:48:44 AM



#80

1,3,5-Trimethylbenzene

Concen: 48.568 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053944.D

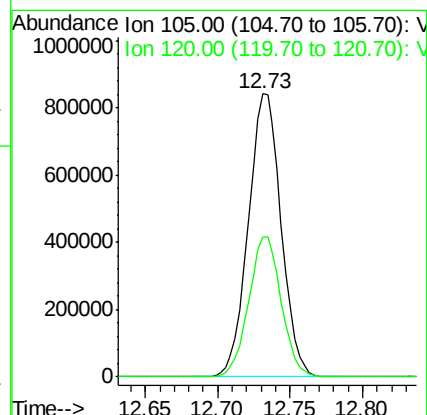
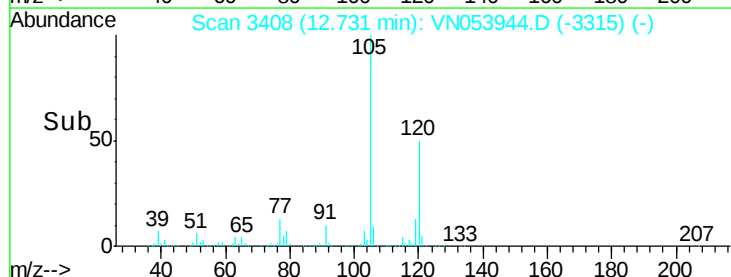
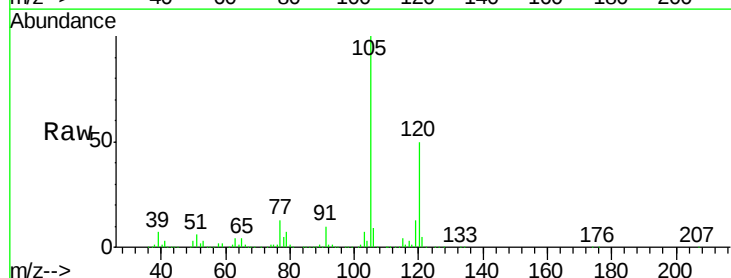
Acq: 25 Feb 2019 21:50

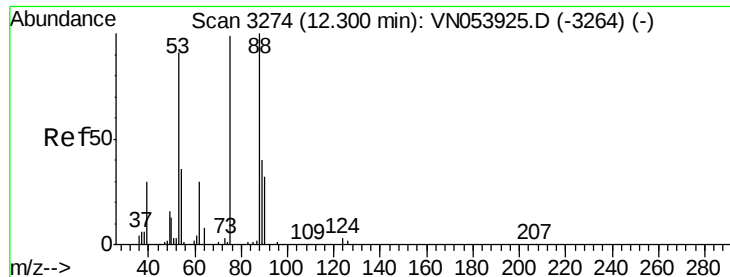
Tgt Ion: 105 Resp: 1320836

Ion Ratio Lower Upper

105 100

120 49.1 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 47.032 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 101868

Ion Ratio Lower Upper

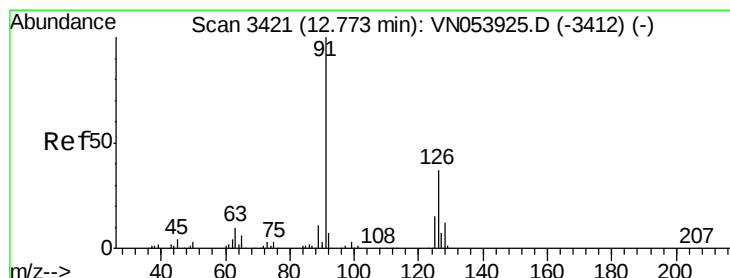
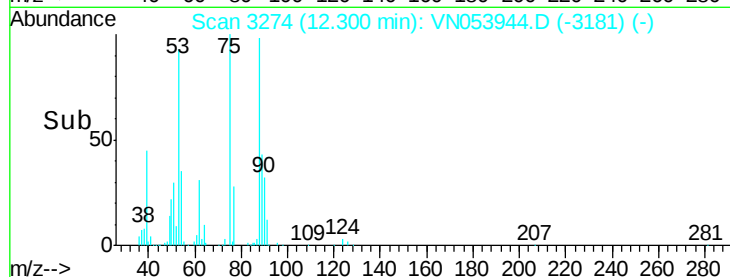
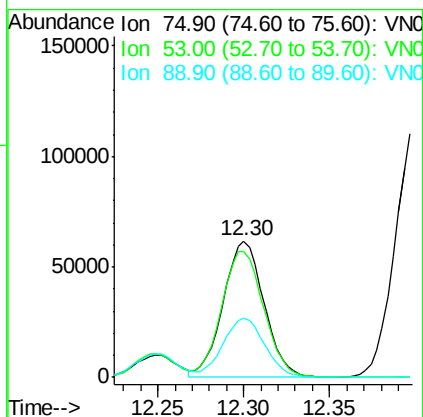
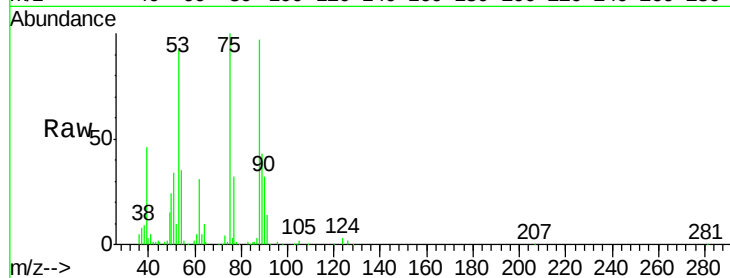
75 100

53 96.3 68.6 102.8

89 44.7 35.3 52.9

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#82

4-Chlorotoluene

Concen: 48.664 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN053944.D

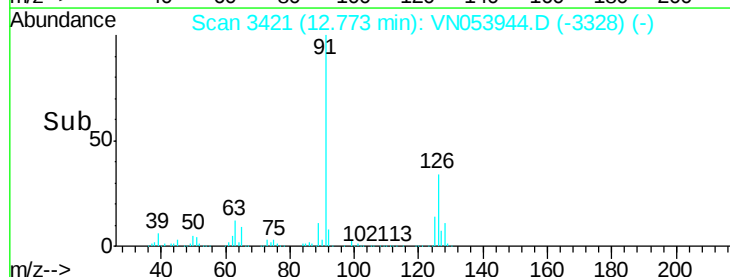
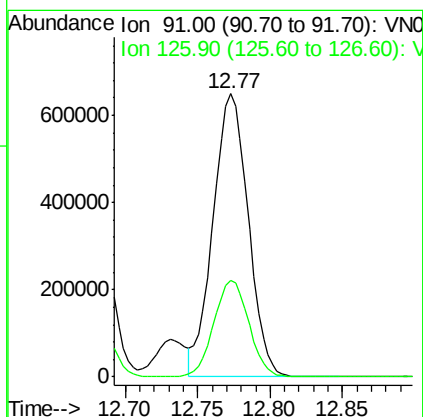
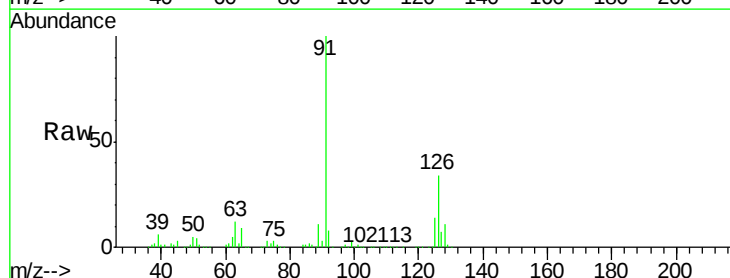
Acq: 25 Feb 2019 21:50

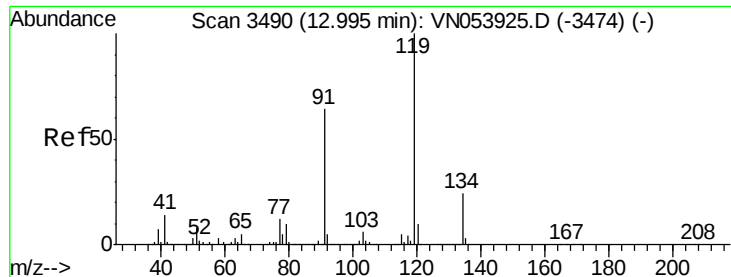
Tgt Ion: 91 Resp: 1091525

Ion Ratio Lower Upper

91 100

126 33.8 18.0 54.0





#83

tert-Butylbenzene

Concen: 48.378 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:119 Resp: 1163608

Ion Ratio Lower Upper

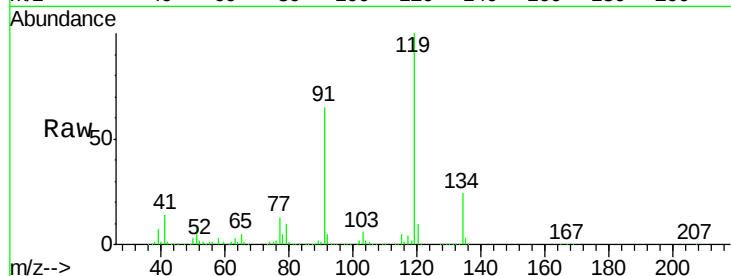
119 100

91 62.9 30.6 91.8

134 25.5 13.0 39.0

Manual Integrations
APPROVED

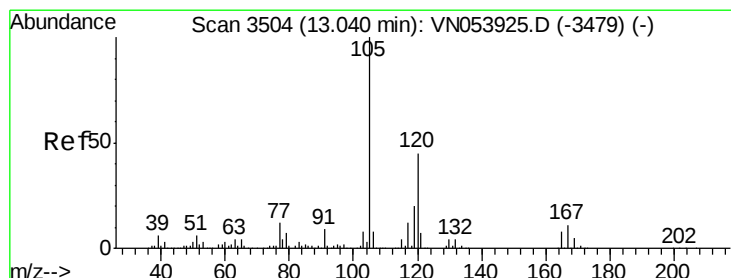
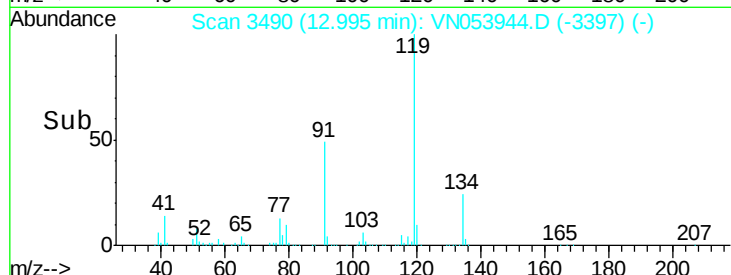
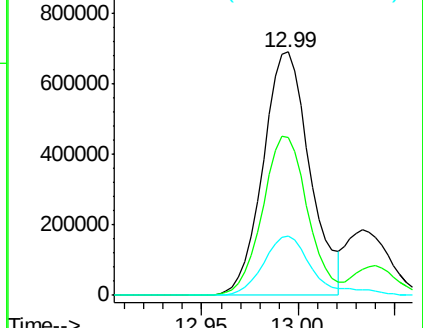
MMDadoda
2/28/2019 10:48:44 AM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 49.464 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053944.D

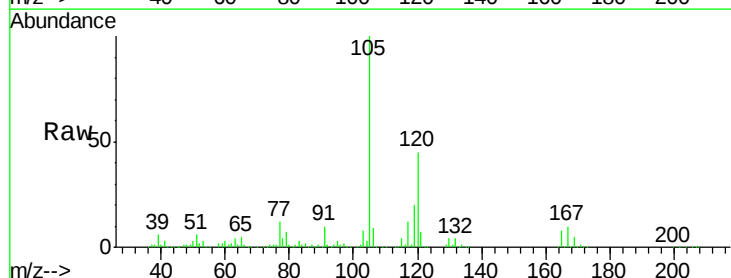
Acq: 25 Feb 2019 21:50

Tgt Ion:105 Resp: 1342962

Ion Ratio Lower Upper

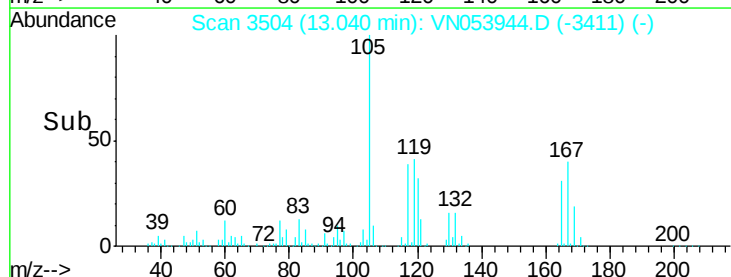
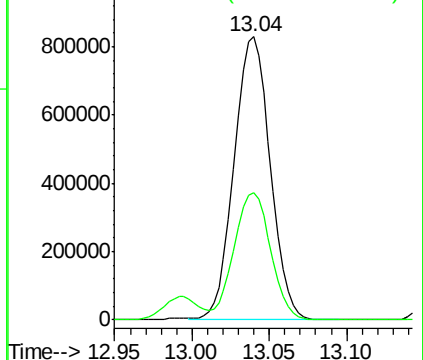
105 100

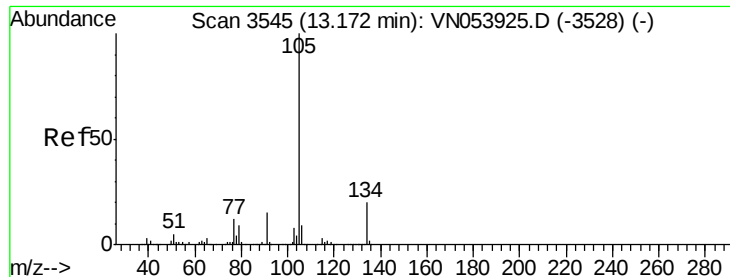
120 45.6 23.2 69.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





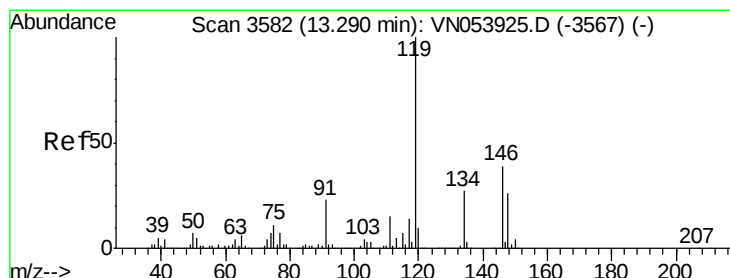
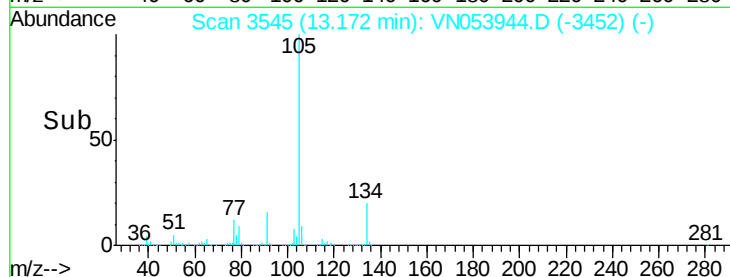
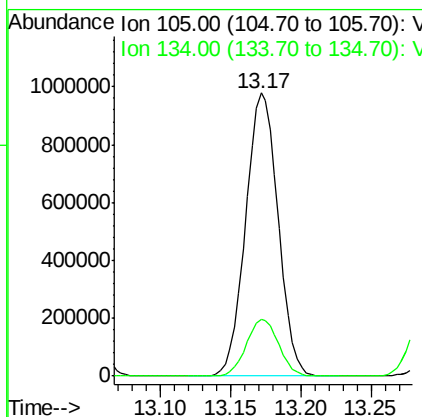
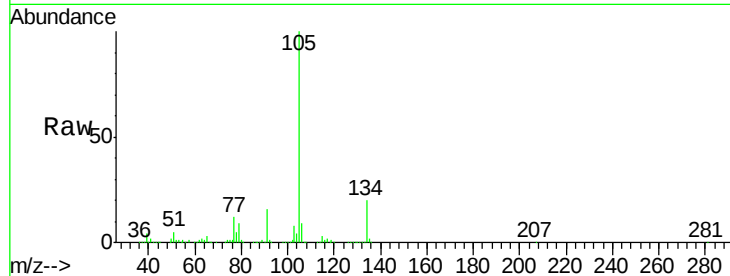
#85
 sec-Butylbenzene
 Concen: 47.968 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:105 Resp: 1575817
 Ion Ratio Lower Upper
 105 100
 134 20.0 10.4 31.1

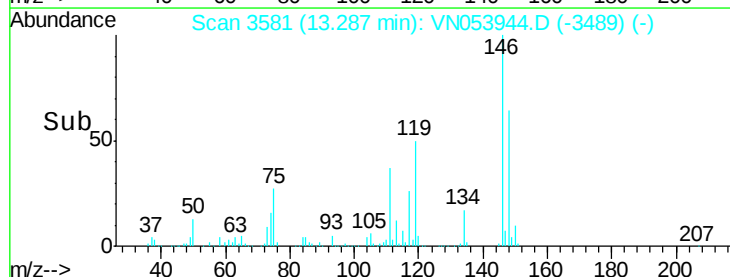
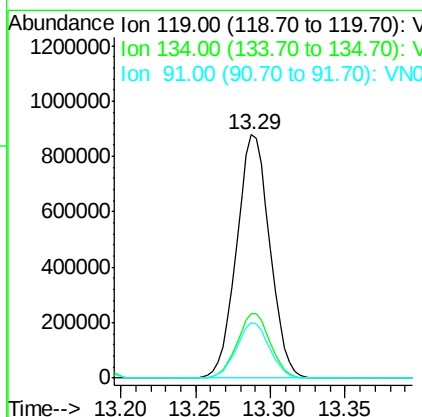
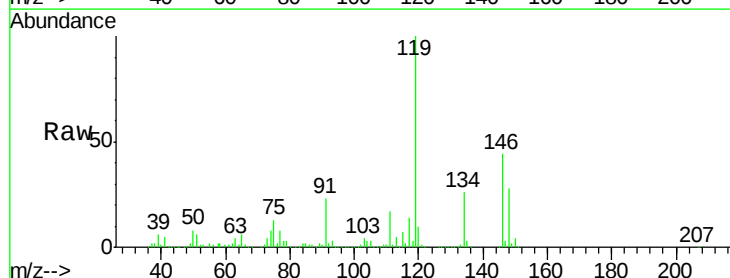
Manual Integrations
 APPROVED

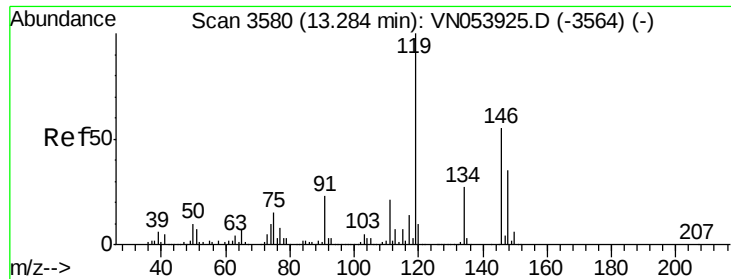
MMDadoda
 2/28/2019 10:48:44 AM



#86
 p-Isopropyltoluene
 Concen: 48.635 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion:119 Resp: 1350708
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.5 40.4
 91 22.5 10.9 32.6





#87

1,3-Dichlorobenzene

Concen: 47.950 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

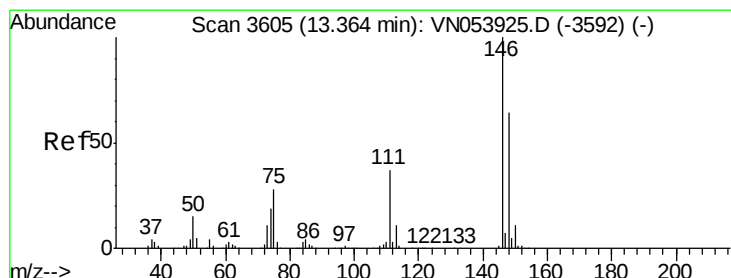
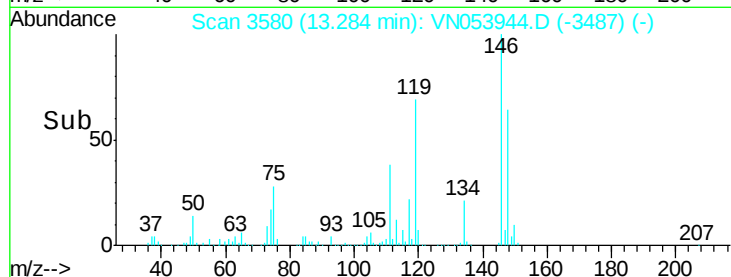
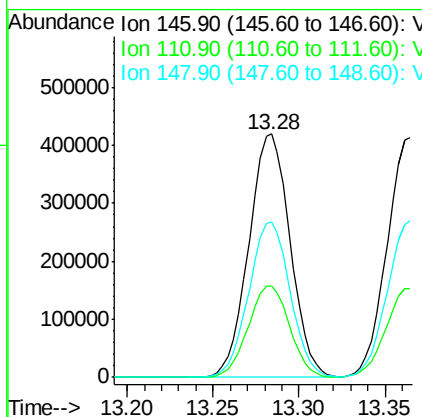
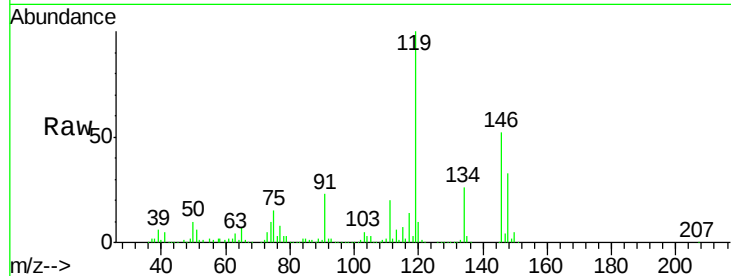
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.7	56.1
148	63.9	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#88

1,4-Dichlorobenzene

Concen: 48.221 ug/l

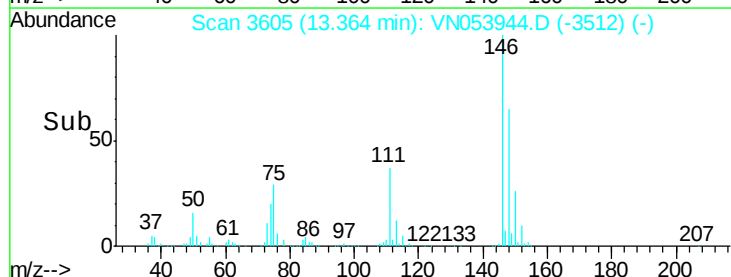
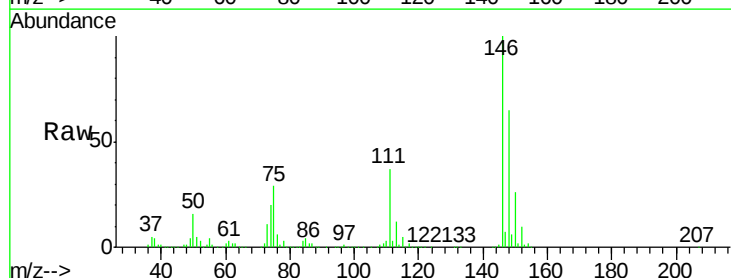
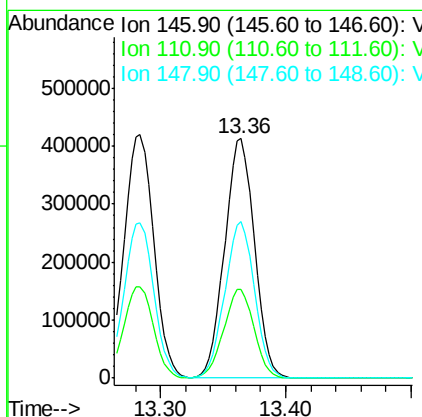
RT: 13.36 min Scan# 3605

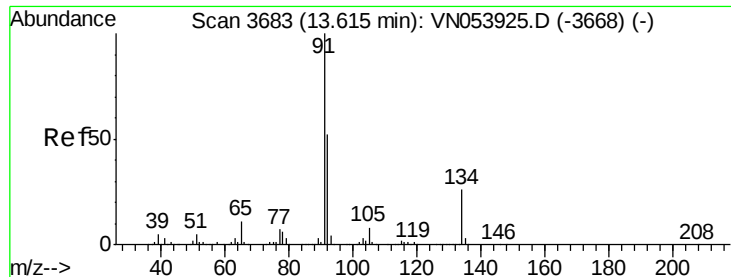
Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.0	54.0
148	64.9	32.1	96.5





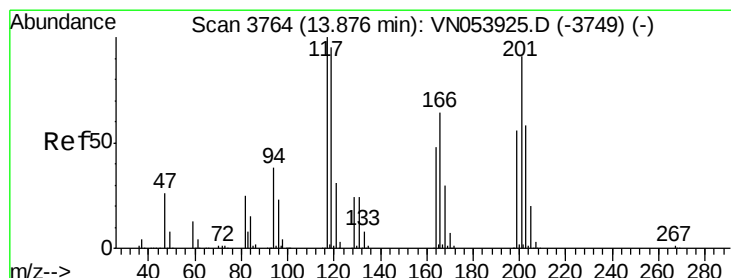
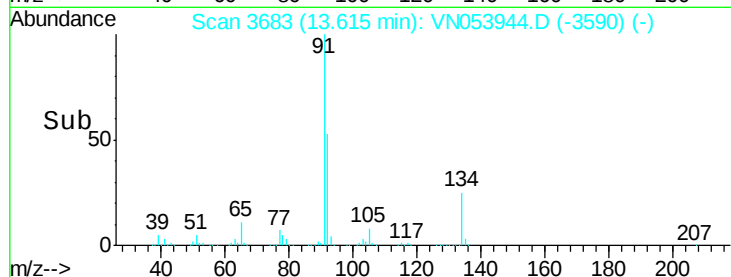
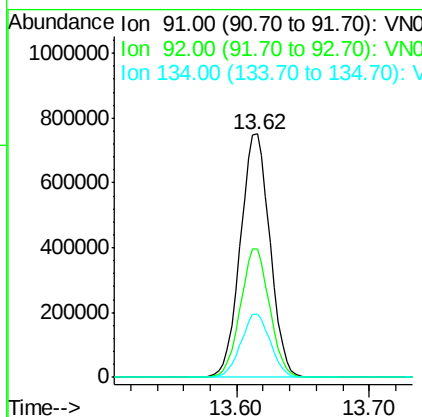
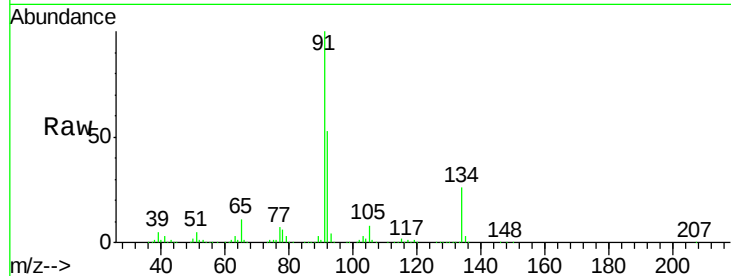
#89
n-Butylbenzene
Concen: 49.577 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1160373
Ion Ratio Lower Upper
91 100
92 52.0 26.1 78.2
134 25.9 13.6 40.8

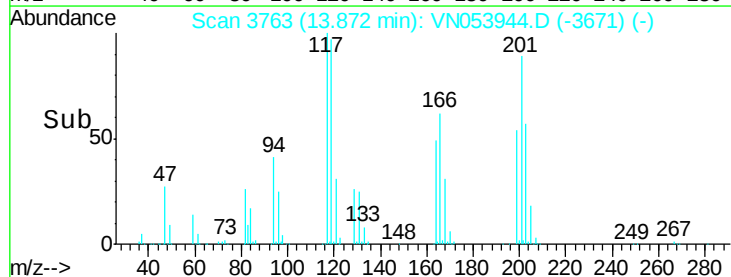
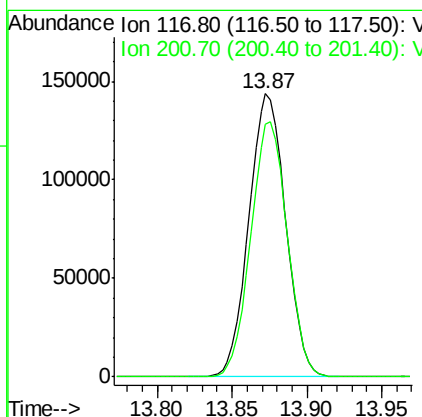
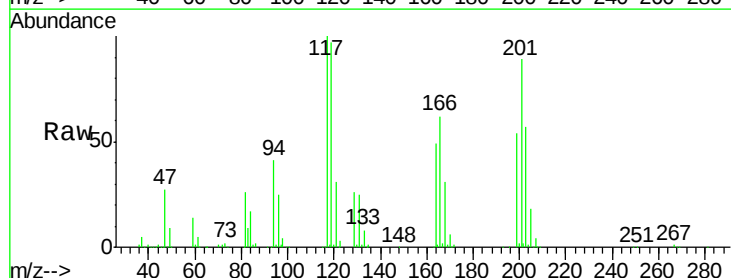
Manual Integrations
APPROVED

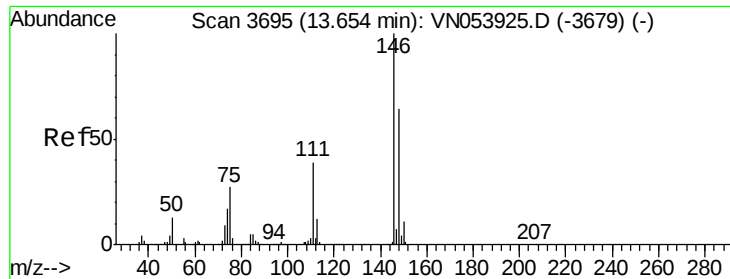
MMDadoda
2/28/2019 10:48:44 AM



#90
Hexachloroethane
Concen: 45.743 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053944.D
Acq: 25 Feb 2019 21:50

Tgt Ion: 117 Resp: 246176
Ion Ratio Lower Upper
117 100
201 89.1 48.0 144.2





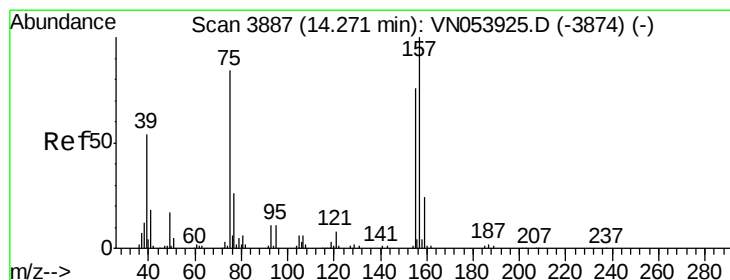
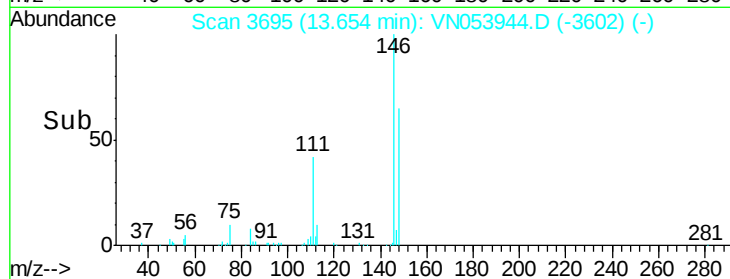
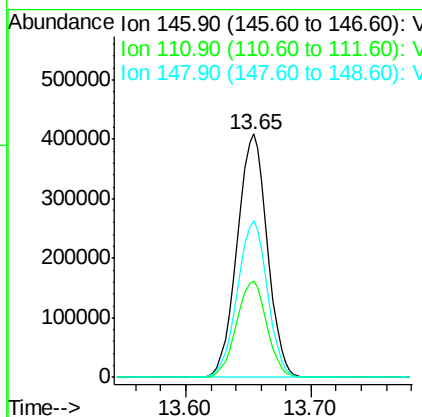
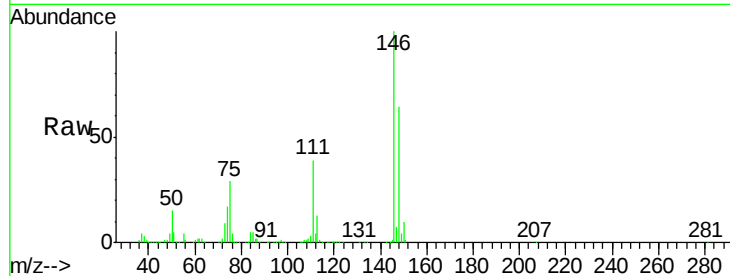
#91
 1,2-Dichlorobenzene
 Concen: 48.275 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.1	57.5
148	64.2	32.1	96.5

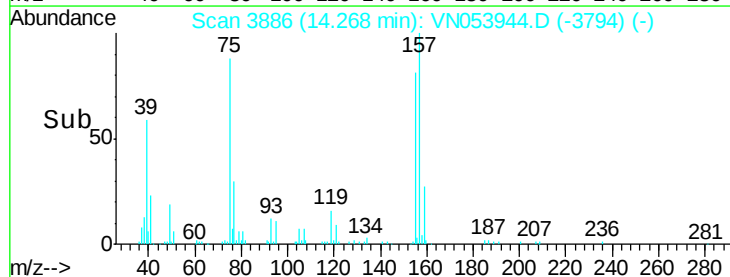
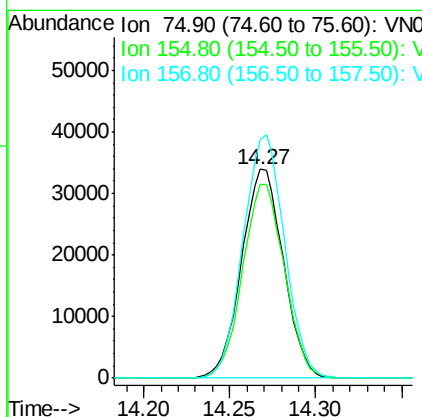
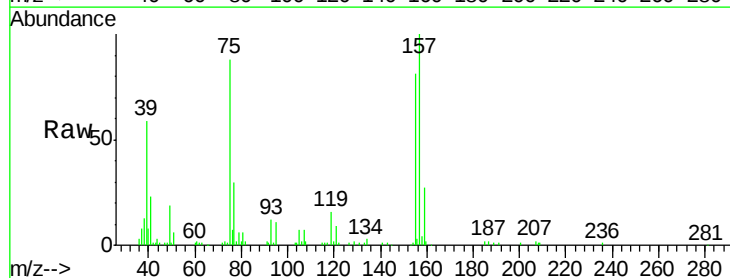
Manual Integrations
 APPROVED

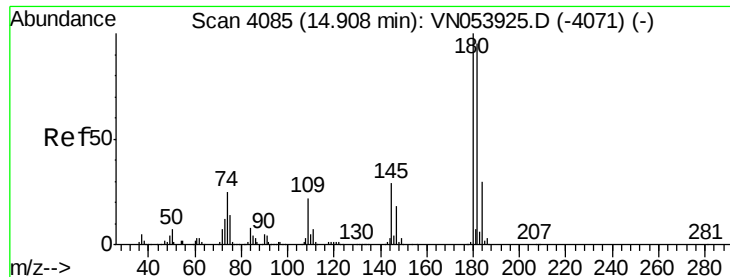
MMDadoda
 2/28/2019 10:48:44 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.733 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.7	49.5	148.5
157	115.7	64.8	194.6





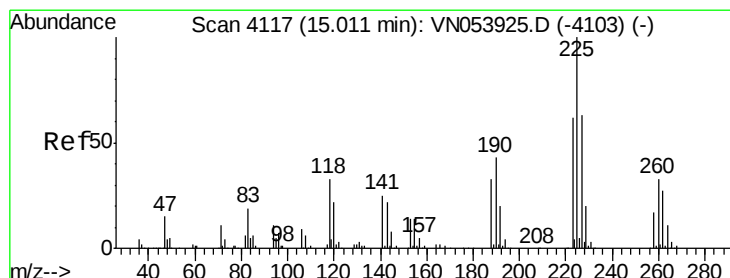
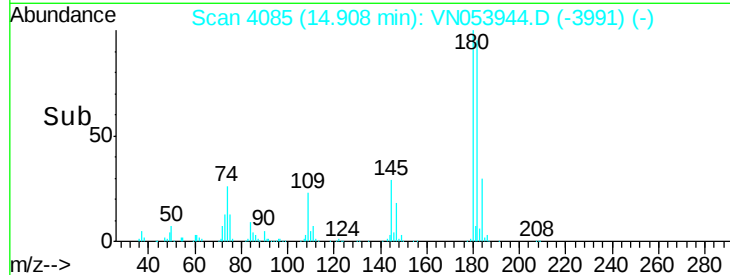
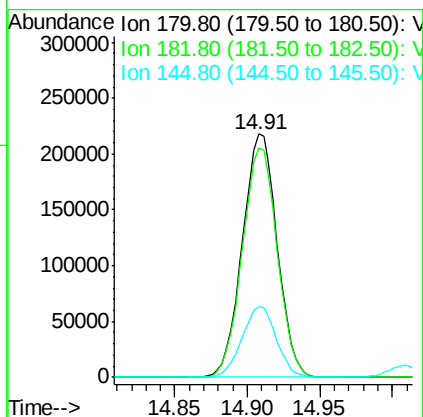
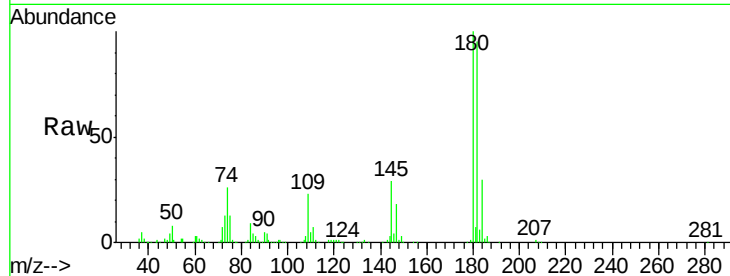
#93
 1,2,4-Trichlorobenzene
 Concen: 46.486 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.9	48.6	145.9	
145	28.8	13.8	41.3	

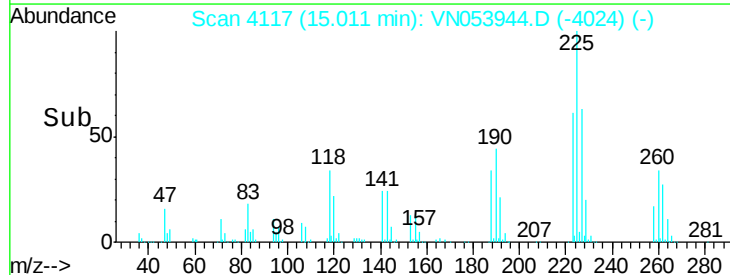
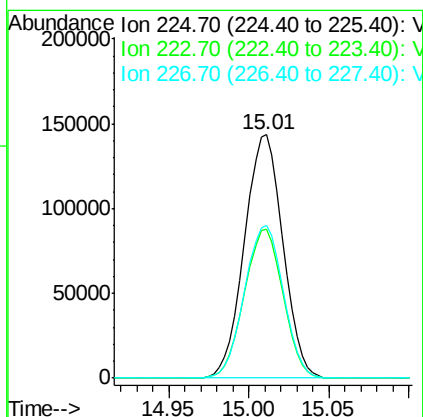
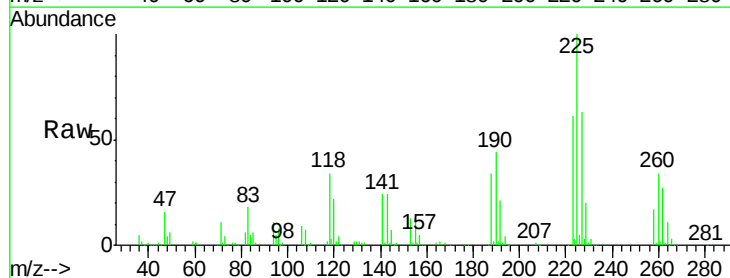
Manual Integrations
 APPROVED

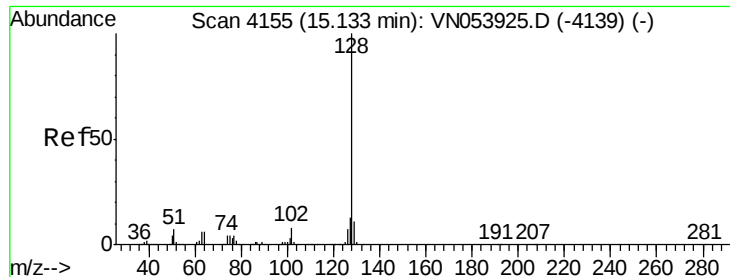
MMDadoda
 2/28/2019 10:48:44 AM



#94
 Hexachlorobutadiene
 Concen: 46.192 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053944.D
 Acq: 25 Feb 2019 21:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.5	30.9	92.5	
227	63.3	32.5	97.4	





#95

Naphthalene

Concen: 45.258 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Instrument :

MSVOA_N

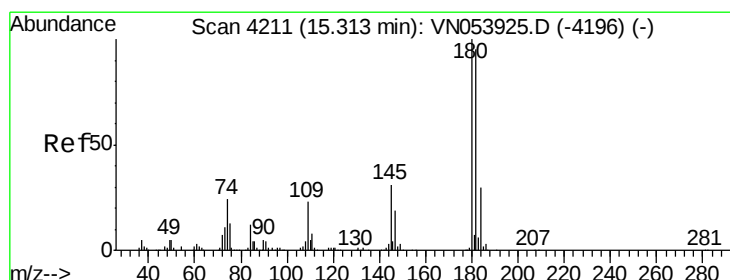
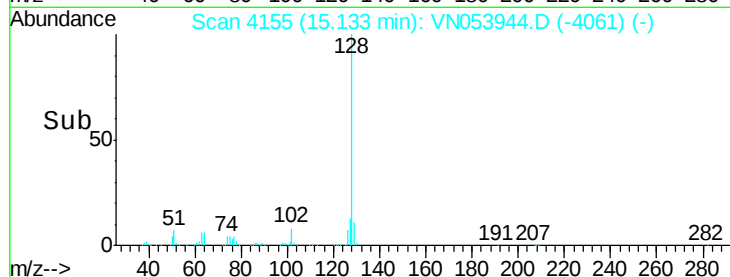
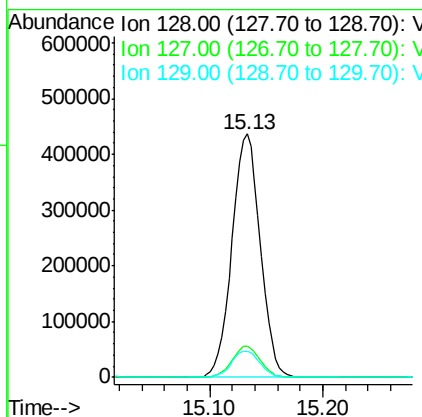
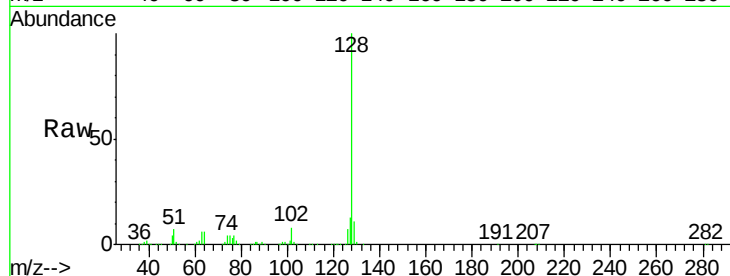
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	759222
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.2
129	10.9	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:48:44 AM



#96

1,2,3-Trichlorobenzene

Concen: 47.029 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053944.D

Acq: 25 Feb 2019 21:50

Tgt Ion:	180	Resp:	353116
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.3	141.8
145	30.1	14.4	43.0

