

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
 Data File : VN059315.D
 Acq On : 19 Nov 2019 19:04
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:36:53 PM

Quant Time: Nov 20 03:59:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	381341	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	602695	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	538532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	258444	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	210141	44.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.66%	
35) Dibromofluoromethane	7.57	113	172987	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
50) Toluene-d8	10.08	98	643096	45.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.74%	
62) 4-Bromofluorobenzene	12.40	95	244594	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	283680	73.833	ug/l	99
3) Chloromethane	2.04	50	329942	63.173	ug/l	99
4) Vinyl Chloride	2.17	62	349805	69.082	ug/l	99
5) Bromomethane	2.54	94	183221	62.878	ug/l	100
6) Chloroethane	2.68	64	177253	59.176	ug/l	98
7) Trichlorofluoromethane	3.00	101	348822	57.593	ug/l	100
8) Diethyl Ether	3.39	74	147697	60.016	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	216752	59.355	ug/l	99
10) Methyl Iodide	3.93	142	291442	64.476	ug/l	98
11) Tert butyl alcohol	4.75	59	243606	272.683	ug/l	99
12) 1,1-Dichloroethene	3.71	96	218517	61.427	ug/l	98
13) Acrolein	3.58	56	77107	167.405	ug/l	99
14) Allyl chloride	4.30	41	410903	56.233	ug/l	97
15) Acrylonitrile	4.95	53	662686	298.066	ug/l	99
16) Acetone	3.79	43	590883	242.396	ug/l	98
17) Carbon Disulfide	4.03	76	691544	62.624	ug/l	99
18) Methyl Acetate	4.29	43	371938	64.282	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	737965	60.255	ug/l	100
20) Methylene Chloride	4.52	84	246971	58.154	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	231731	60.688	ug/l	96
22) Diisopropyl ether	5.92	45	801130	58.044	ug/l	99
23) Vinyl Acetate	5.87	43	3198375	298.999	ug/l	99
24) 1,1-Dichloroethane	5.82	63	443208	57.493	ug/l	99
25) 2-Butanone	6.81	43	889321	276.813	ug/l	99
26) 2,2-Dichloropropane	6.80	77	371306	55.084	ug/l	99
27) cis-1,2-Dichloroethene	6.80	96	264262	59.653	ug/l	98
28) Bromochloromethane	7.17	49	110323	47.568	ug/l	97
29) Tetrahydrofuran	7.18	42	590114	289.079	ug/l	97
30) Chloroform	7.35	83	420066	56.804	ug/l	100
31) Cyclohexane	7.63	56	421618	57.773	ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	365950	58.860	ug/l	99
36) 1,1-Dichloropropene	7.77	75	333217	59.150	ug/l	99
37) Ethyl Acetate	6.90	43	358203	57.157	ug/l	98
38) Carbon Tetrachloride	7.75	117	321356	57.313	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
 Data File : VN059315.D
 Acq On : 19 Nov 2019 19:04
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:36:53 PM

Quant Time: Nov 20 03:59:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	408489	62.478	ug/l	98
40) Benzene	8.02	78	1004359	59.204	ug/l	100
41) Methacrylonitrile	7.15	41	150542m	55.241	ug/l	
42) 1,2-Dichloroethane	8.10	62	330227	56.757	ug/l	99
43) Isopropyl Acetate	8.15	43	569795	57.029	ug/l	98
44) Trichloroethene	8.82	130	248739	59.648	ug/l	98
45) 1,2-Dichloropropane	9.10	63	266354	57.805	ug/l	100
46) Dibromomethane	9.19	93	163941	57.096	ug/l	99
47) Bromodichloromethane	9.39	83	330806	57.696	ug/l	99
48) Methyl methacrylate	9.18	41	259617	58.092	ug/l	97
49) 1,4-Dioxane	9.18	88	83502	1051.377	ug/l	95
51) 4-Methyl-2-Pentanone	9.97	43	1748513	309.291	ug/l	99
52) Toluene	10.15	92	610108	60.003	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	384446	58.037	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	421267	59.121	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	235083	57.128	ug/l	99
56) Ethyl methacrylate	10.42	69	383037	55.591	ug/l	98
57) 1,3-Dichloropropane	10.70	76	410457	57.954	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	642074	280.367	ug/l	99
59) 2-Hexanone	10.75	43	1287440	296.702	ug/l	98
60) Dibromochloromethane	10.90	129	253798	58.334	ug/l	100
61) 1,2-Dibromoethane	11.00	107	249139	59.807	ug/l	99
64) Tetrachloroethene	10.63	164	226913	61.965	ug/l	99
65) Chlorobenzene	11.43	112	629971	60.008	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	231713	58.839	ug/l	99
67) Ethyl Benzene	11.51	91	1161451	62.357	ug/l	98
68) m/p-Xylenes	11.62	106	870796	124.808	ug/l	99
69) o-Xylene	11.95	106	417111	61.862	ug/l	98
70) Styrene	11.96	104	674032	63.562	ug/l	99
71) Bromoform	12.13	173	184379	60.192	ug/l #	100
73) Isopropylbenzene	12.25	105	1113302	59.220	ug/l	100
74) N-amyl acetate	12.07	43	469095	58.887	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	359368	56.133	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	349900m	59.467	ug/l	
77) Bromobenzene	12.53	156	263787	55.849	ug/l	99
78) n-propylbenzene	12.59	91	1302316	60.502	ug/l	100
79) 2-Chlorotoluene	12.67	91	768996	57.589	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	940778	59.058	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	128997	57.907	ug/l	97
82) 4-Chlorotoluene	12.77	91	785113	58.621	ug/l	100
83) tert-Butylbenzene	12.99	119	801991	58.299	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	939991	60.991	ug/l	99
85) sec-Butylbenzene	13.17	105	1088382	60.834	ug/l	100
86) p-Isopropyltoluene	13.29	119	981896	62.156	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	468668	57.946	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	464689	57.424	ug/l	99
89) n-Butylbenzene	13.62	91	863733	62.470	ug/l	100
90) Hexachloroethane	13.88	117	174720	55.080	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	457069	57.448	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	69884	54.711	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
Data File : VN059315.D
Acq On : 19 Nov 2019 19:04
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM

Quant Time: Nov 20 03:59:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	259575	53.544	ug/l	99
94) Hexachlorobutadiene	15.01	225	160240	58.411	ug/l	98
95) Naphthalene	15.13	128	701587	52.241	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	252868	56.712	ug/l	99

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

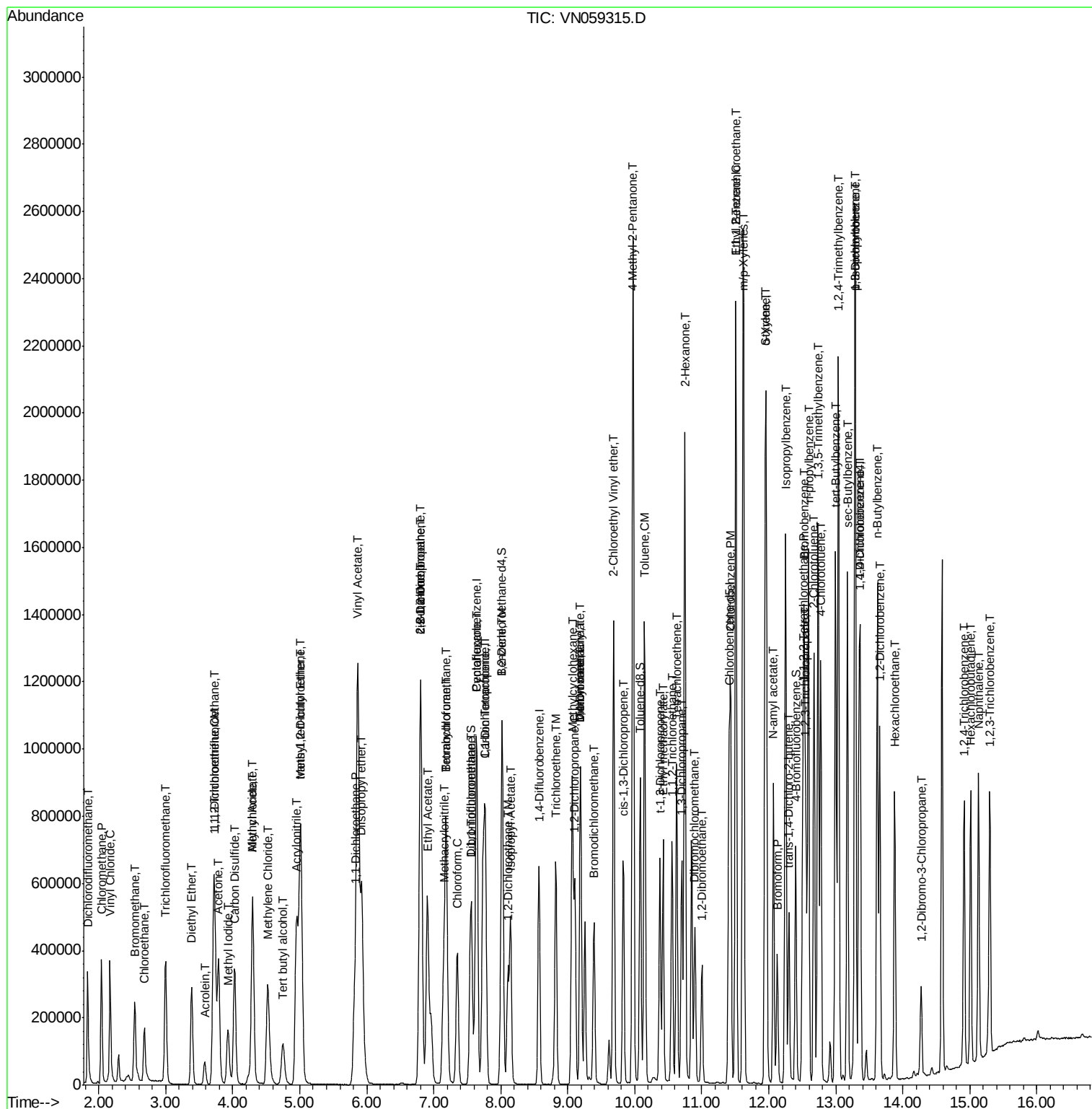
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
 Data File : VN059315.D
 Acq On : 19 Nov 2019 19:04
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

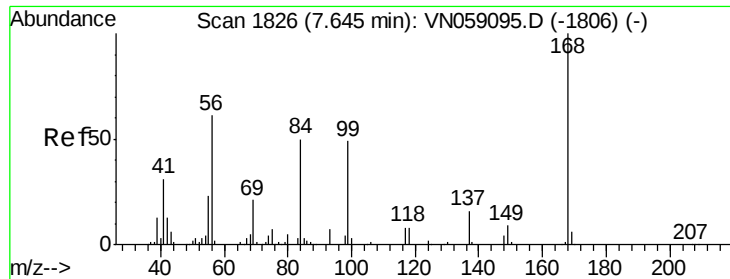
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:36:53 PM

Quant Time: Nov 20 03:59:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 381341

Ion Ratio Lower Upper

168 100

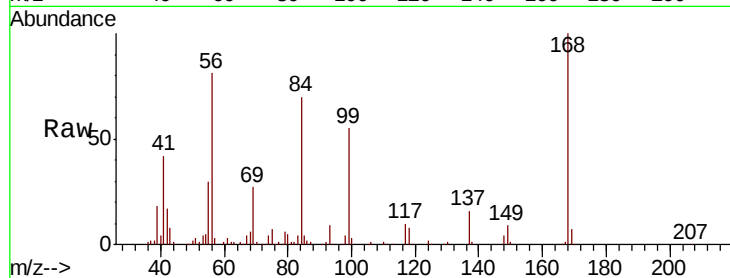
99 55.0 45.7 68.5

Manual Integrations

APPROVED

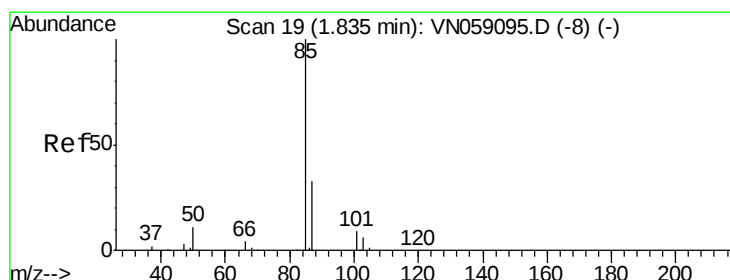
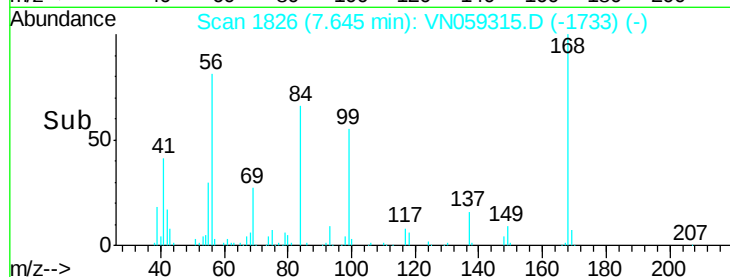
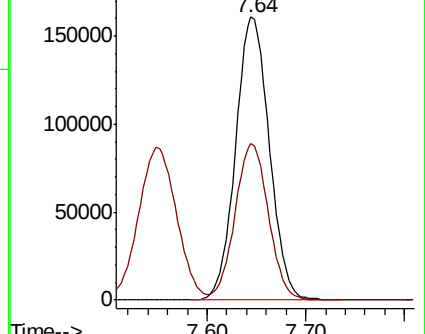
MMDadoda

11/20/2019 1:36:53 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 73.833 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059315.D

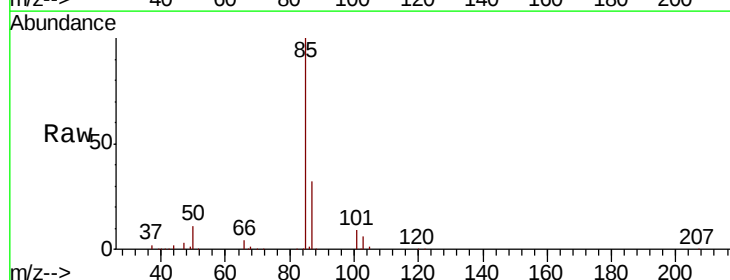
Acq: 19 Nov 2019 19:04

Tgt Ion: 85 Resp: 283680

Ion Ratio Lower Upper

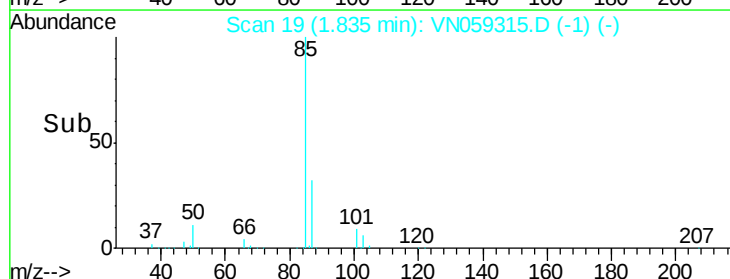
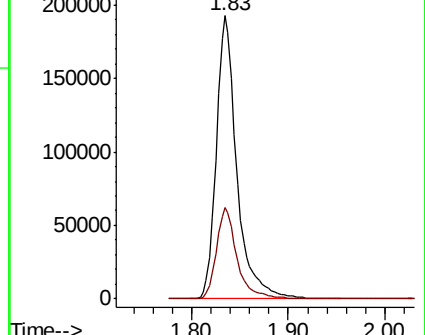
85 100

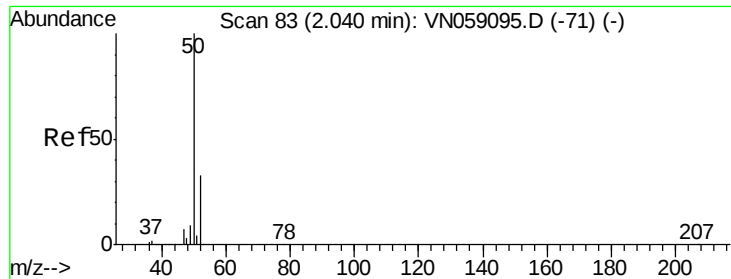
87 32.1 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 63.173 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 329942

Ion Ratio Lower Upper

50 100

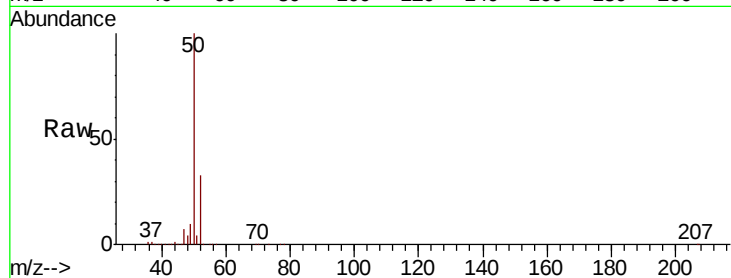
52 33.0 26.0 39.0

Manual Integrations

APPROVED

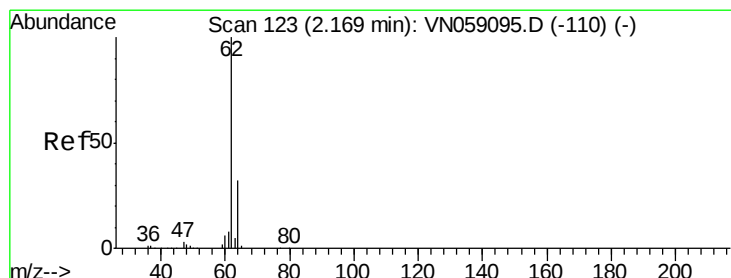
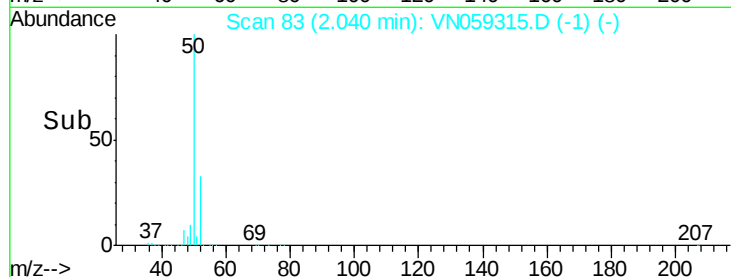
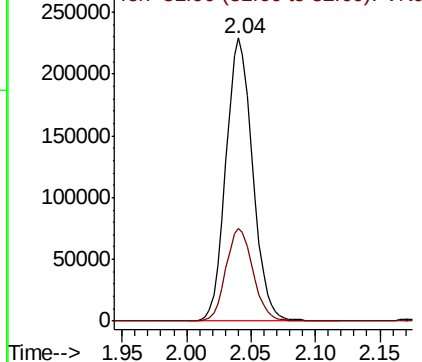
MMDadoda

11/20/2019 1:36:53 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 69.082 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059315.D

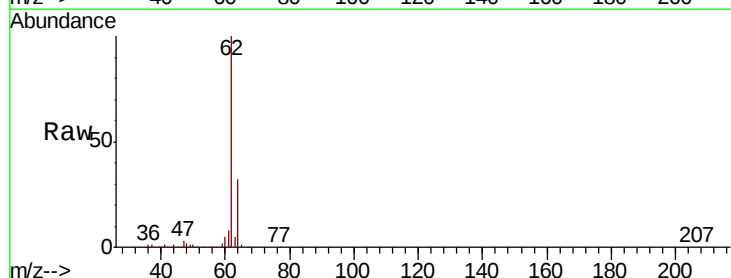
Acq: 19 Nov 2019 19:04

Tgt Ion: 62 Resp: 349805

Ion Ratio Lower Upper

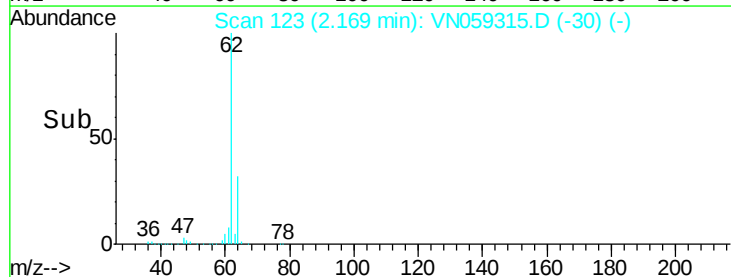
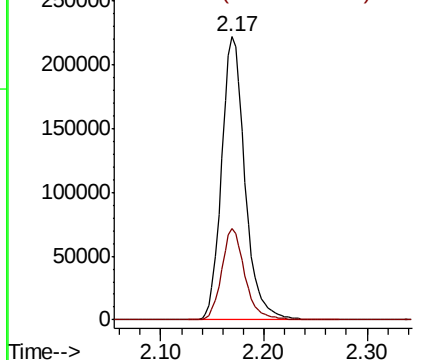
62 100

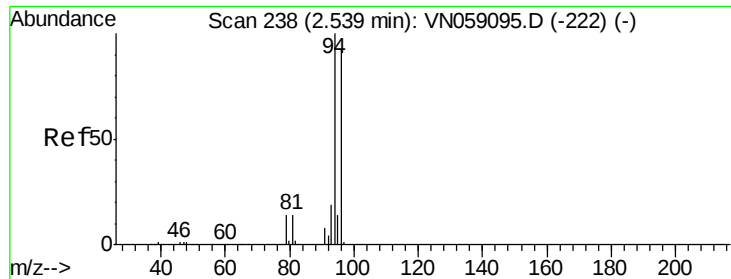
64 32.1 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 62.878 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 183221

Ion Ratio Lower Upper

94 100

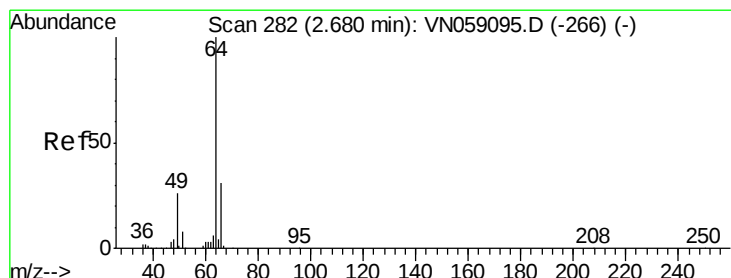
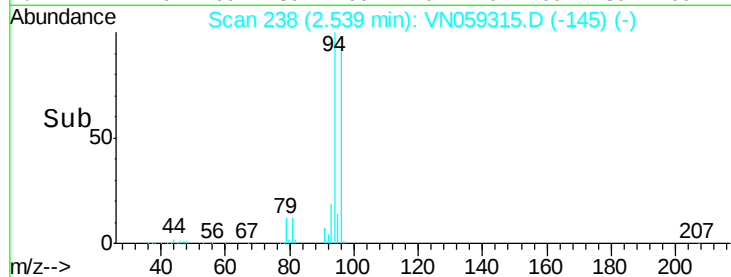
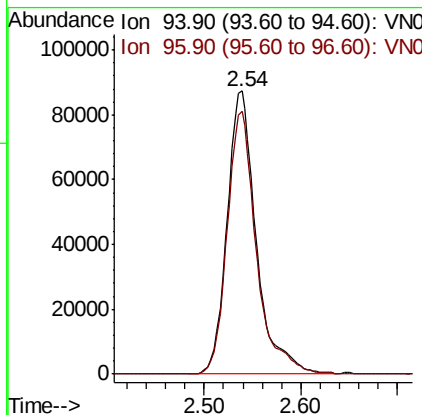
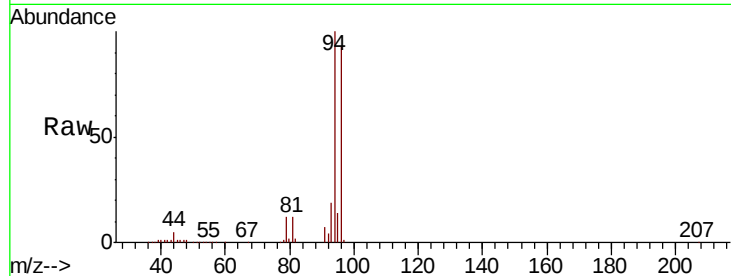
96 92.9 74.2 111.2

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:36:53 PM



#6

Chloroethane

Concen: 59.176 ug/l

RT: 2.68 min Scan# 282

Delta R.T. -0.00 min

Lab File: VN059315.D

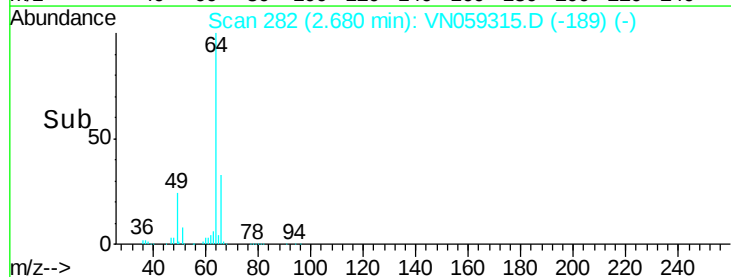
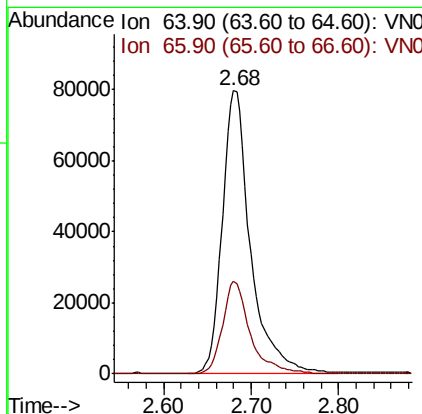
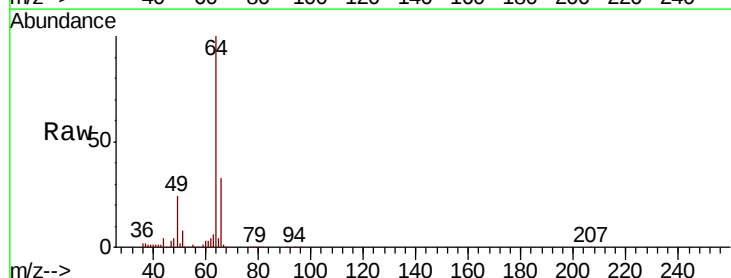
Acq: 19 Nov 2019 19:04

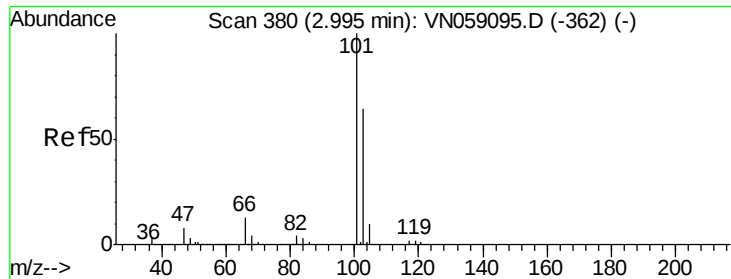
Tgt Ion: 64 Resp: 177253

Ion Ratio Lower Upper

64 100

66 32.6 25.2 37.8





#7

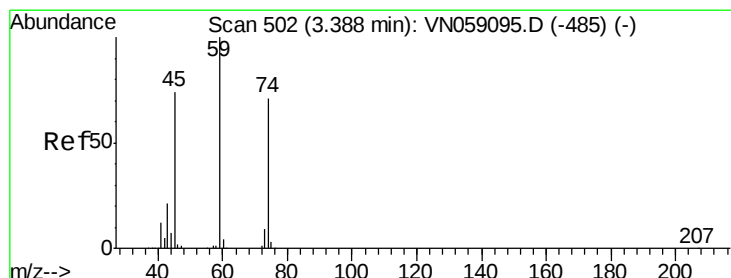
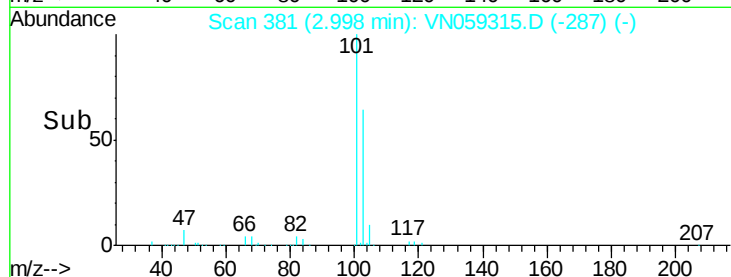
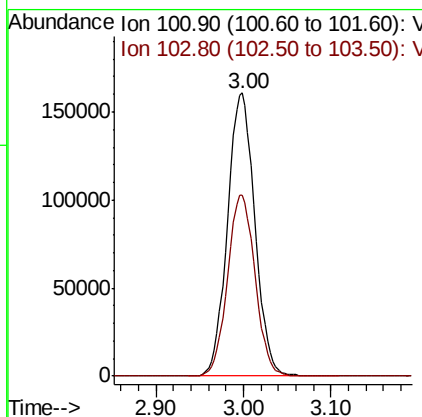
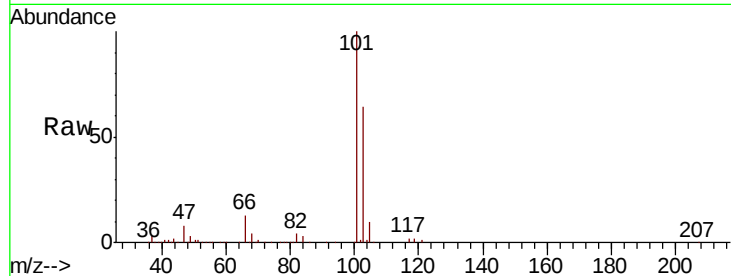
Trichlorofluoromethane
 Concen: 57.593 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.2	76.8

Manual Integrations
 APPROVED

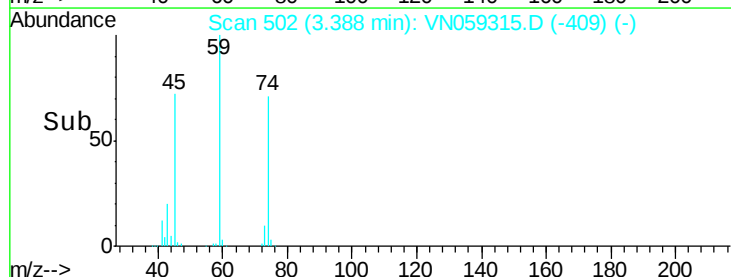
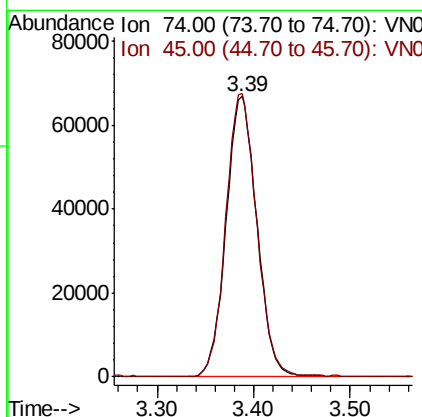
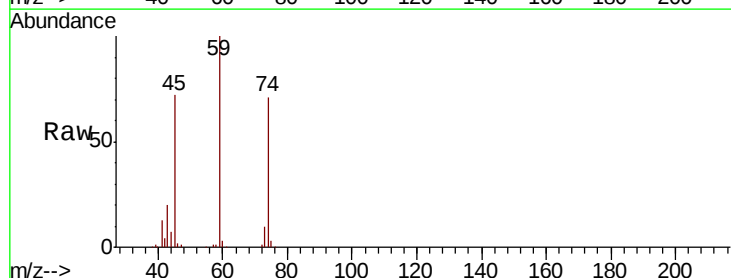
MMDadoda
 11/20/2019 1:36:53 PM

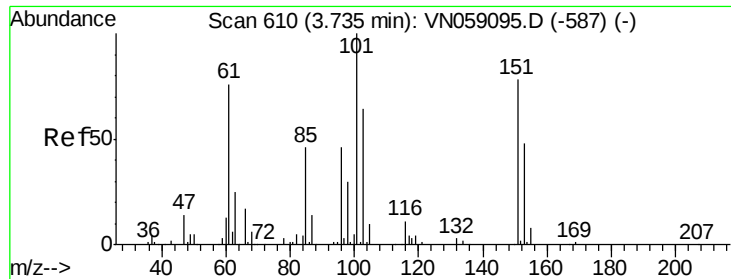


#8

Diethyl Ether
 Concen: 60.016 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.2	51.6	154.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 59.355 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

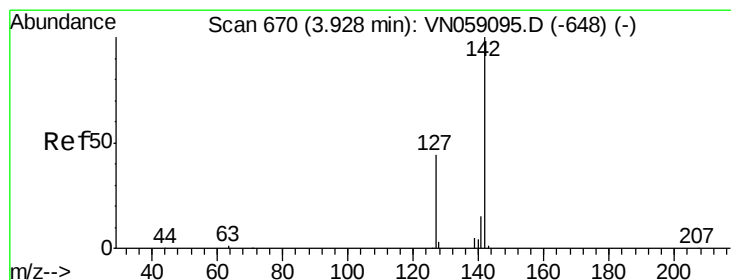
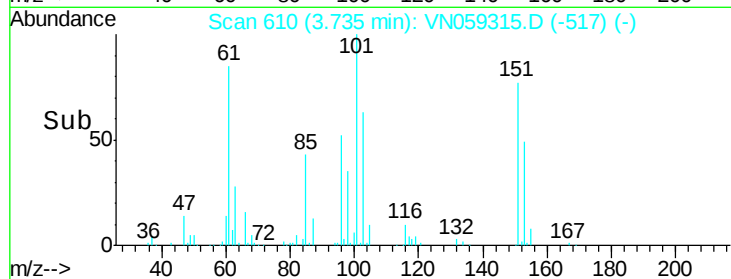
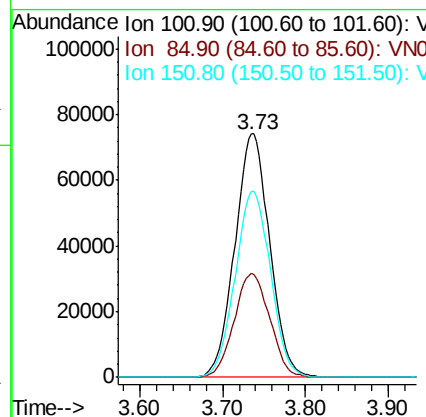
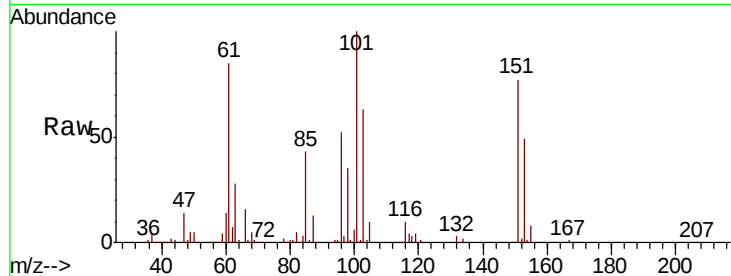
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
101	100	216752		
85	43.6	35.5	53.3	
151	77.6	62.2	93.2	

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#10

Methyl Iodide

Concen: 64.476 ug/l

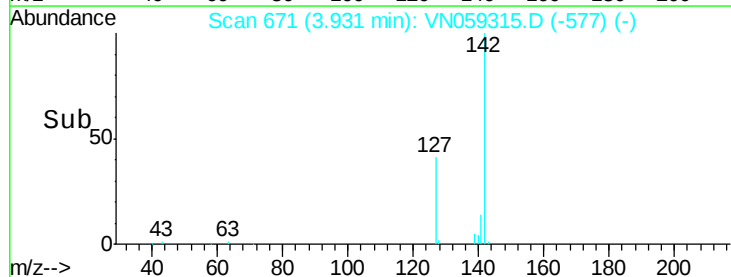
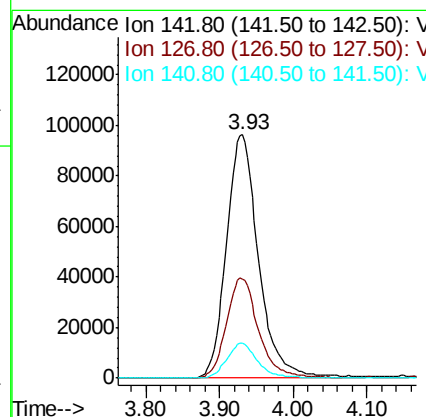
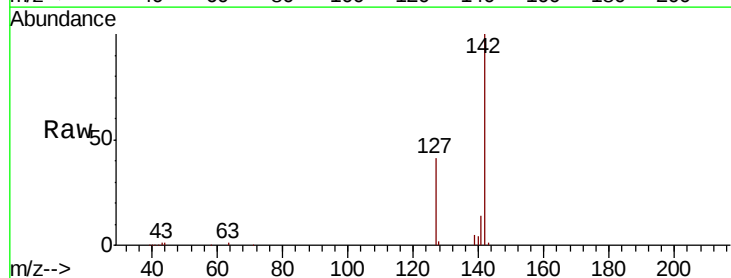
RT: 3.93 min Scan# 671

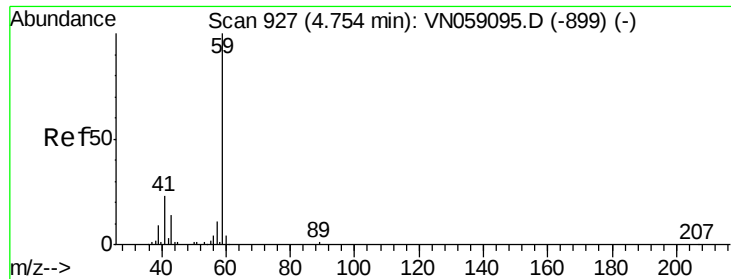
Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	291442		
127	41.1	34.2	51.2	
141	13.8	11.4	17.0	





#11

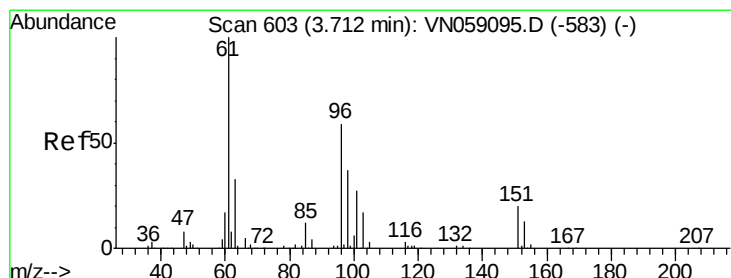
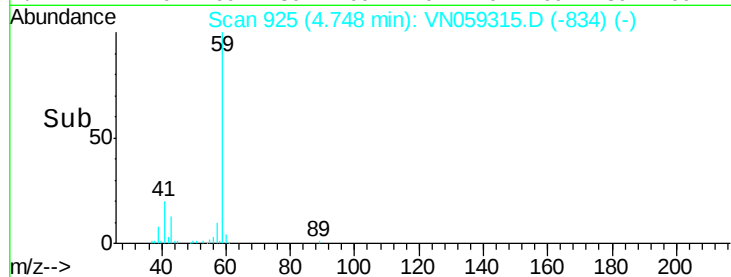
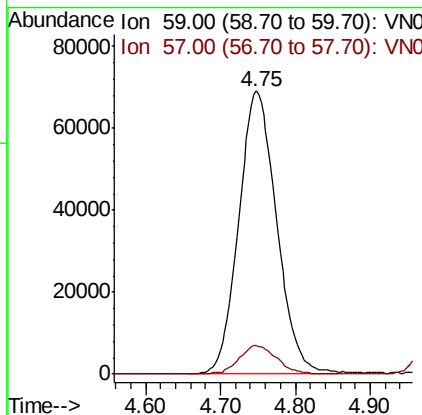
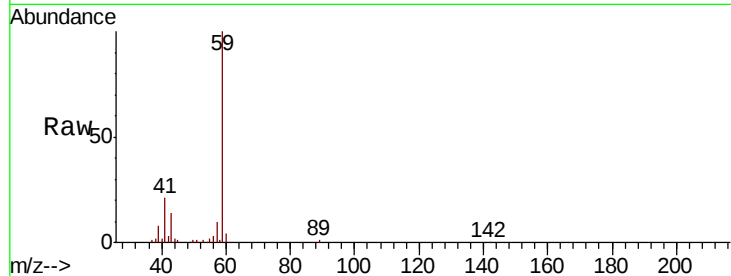
Tert butyl alcohol
 Concen: 272.683 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5

Manual Integrations
 APPROVED

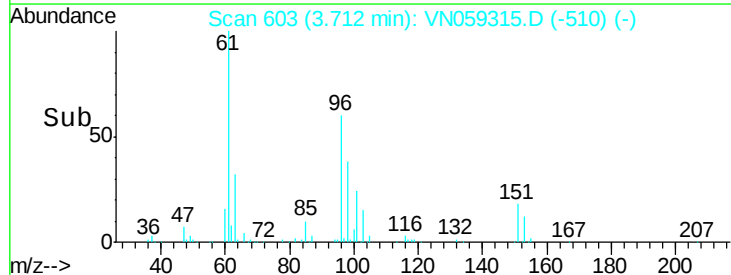
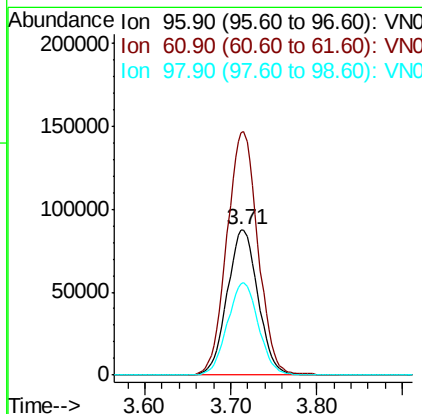
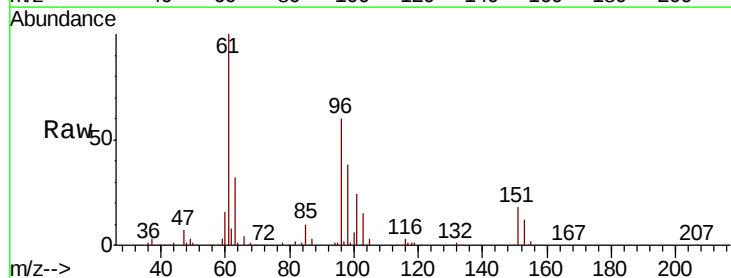
MMDadoda
 11/20/2019 1:36:53 PM

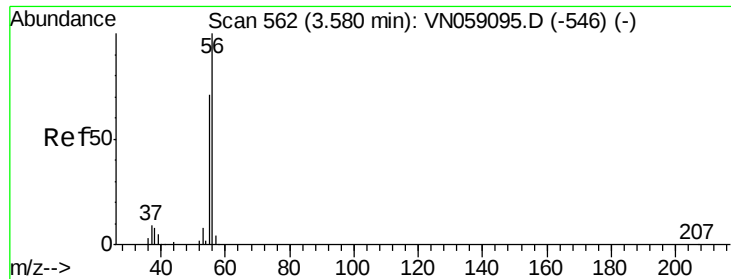


#12

1,1-Dichloroethene
 Concen: 61.427 ug/l
 RT: 3.71 min Scan# 603
 Delta R.T. -0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.1	136.5	204.7
98	62.9	50.2	75.4





#13

Acrolein

Concen: 167.405 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 77107

Ion Ratio Lower Upper

56 100

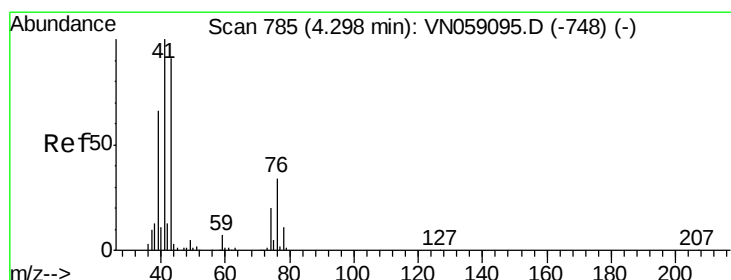
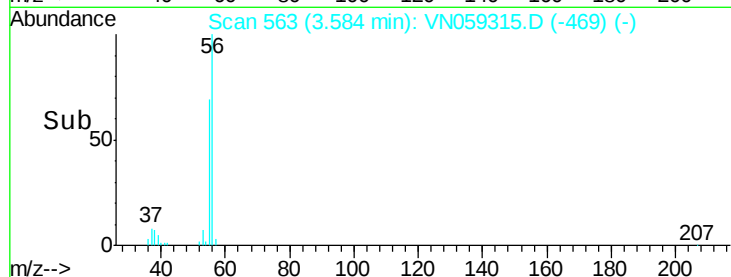
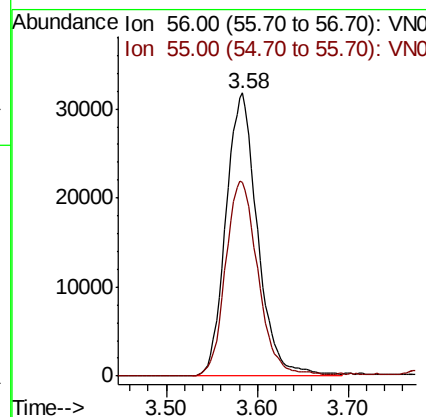
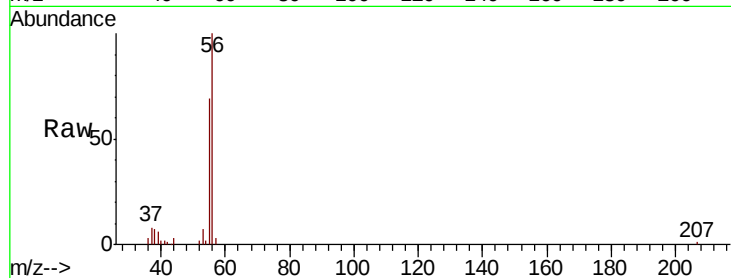
55 70.0 56.4 84.6

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:36:53 PM



#14

Allyl chloride

Concen: 56.233 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

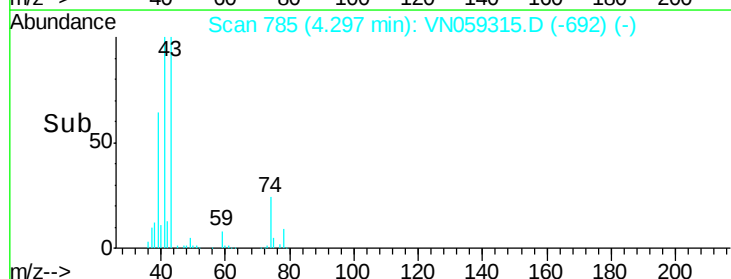
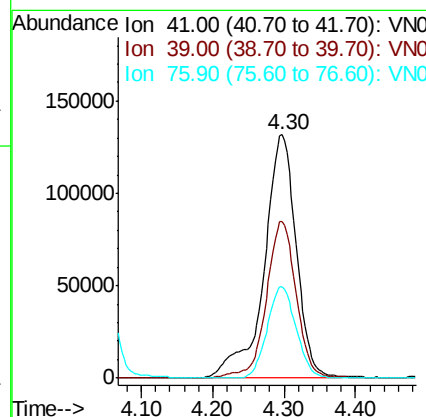
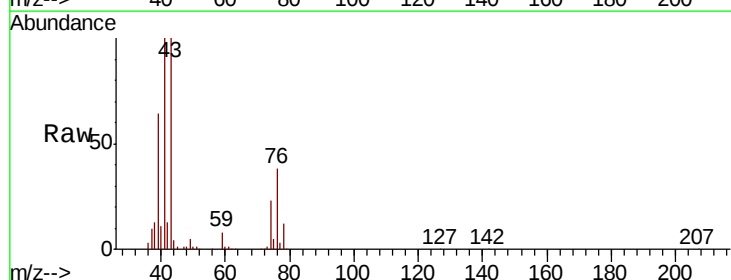
Tgt Ion: 41 Resp: 410903

Ion Ratio Lower Upper

41 100

39 59.6 49.1 73.7

76 33.5 24.9 37.3





#15

Acrylonitrile

Concen: 298.066 ug/l

RT: 4.95 min Scan# 988

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

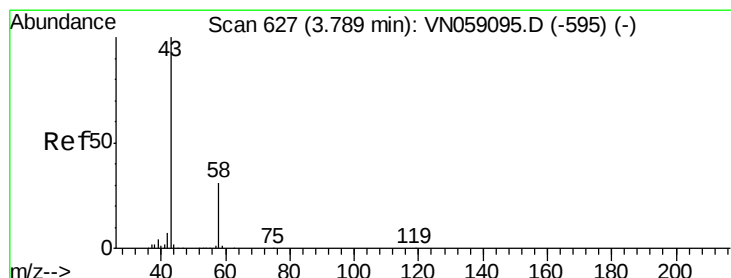
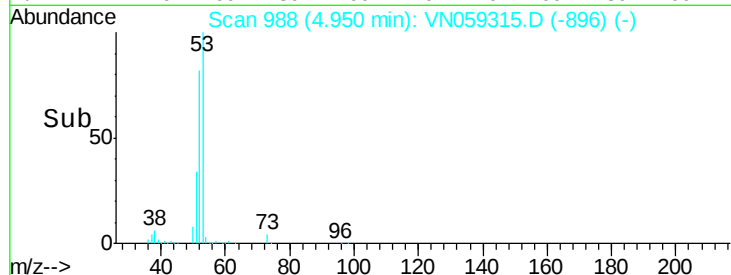
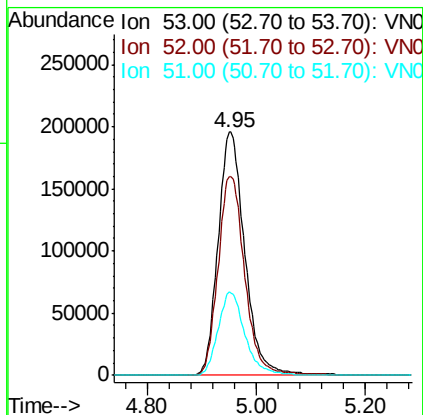
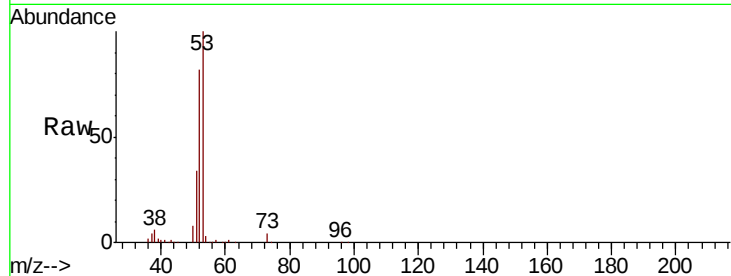
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	662686
Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.0	97.6
51	34.5	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#16

Acetone

Concen: 242.396 ug/l

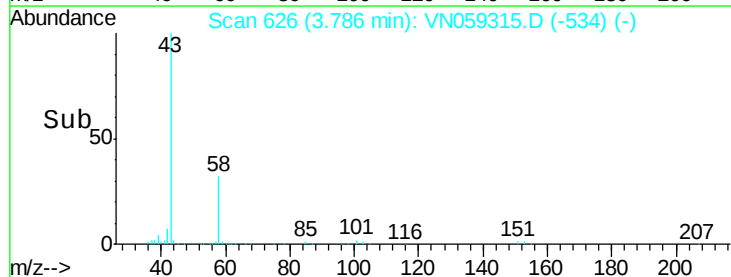
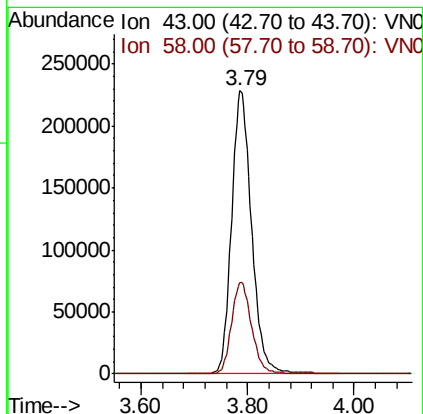
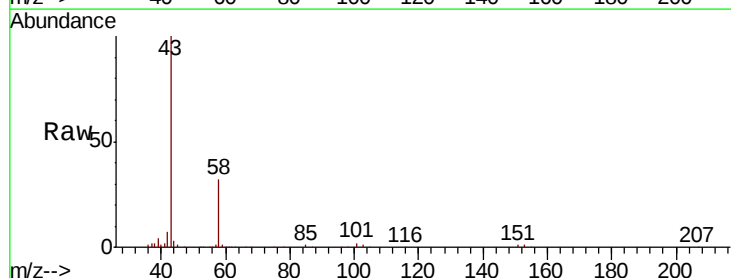
RT: 3.79 min Scan# 626

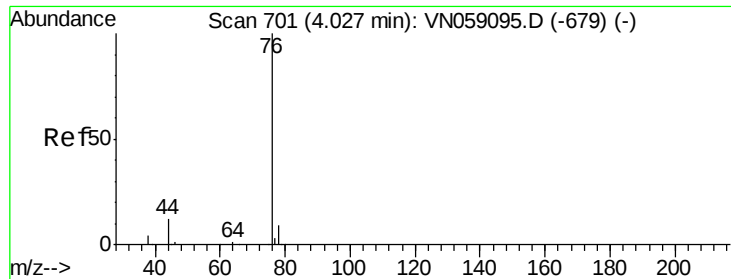
Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion:	43	Resp:	590883
Ion	Ratio	Lower	Upper
43	100		
58	32.2	24.9	37.3





#17

Carbon Disulfide

Concen: 62.624 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 691544

Ion Ratio Lower Upper

76 100

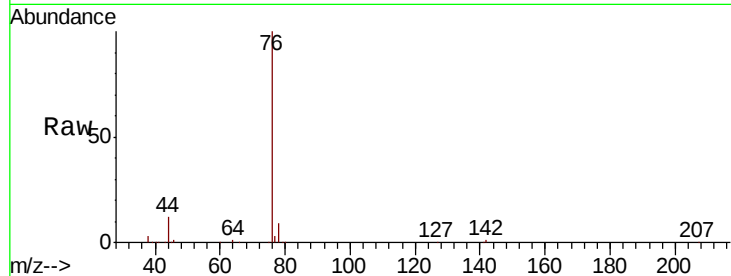
78 9.0 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:36:53 PM



Abundance Ion 75.90 (75.60 to 76.60): VN059315.D (-608) (-)

Ion 77.90 (77.60 to 78.60): VN059315.D (-608) (-)

4.03

250000

200000

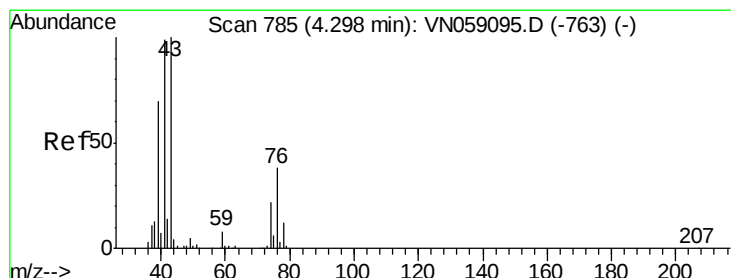
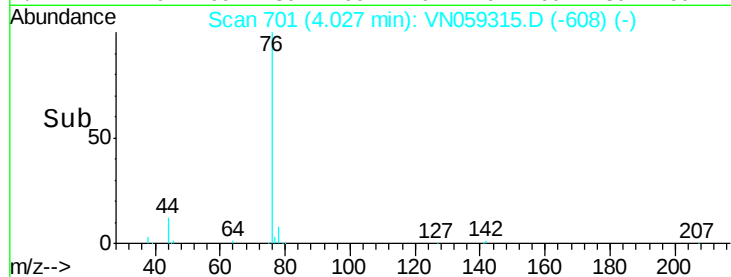
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 64.282 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN059315.D

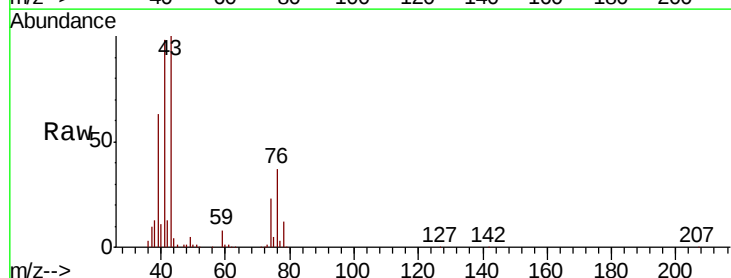
Acq: 19 Nov 2019 19:04

Tgt Ion: 43 Resp: 371938

Ion Ratio Lower Upper

43 100

74 23.5 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VN059315.D (-692) (-)

Ion 74.00 (73.70 to 74.70): VN059315.D (-692) (-)

4.29

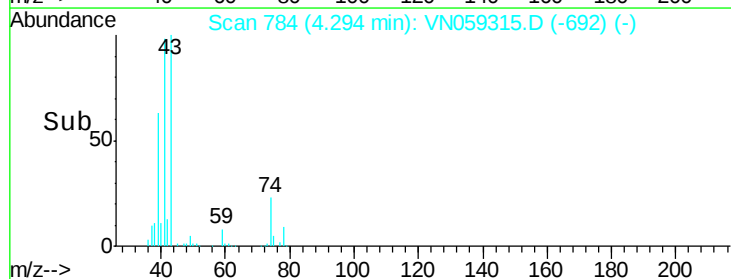
150000

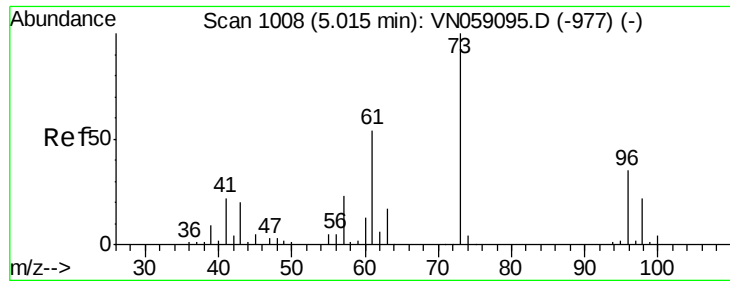
100000

50000

0

Time-->





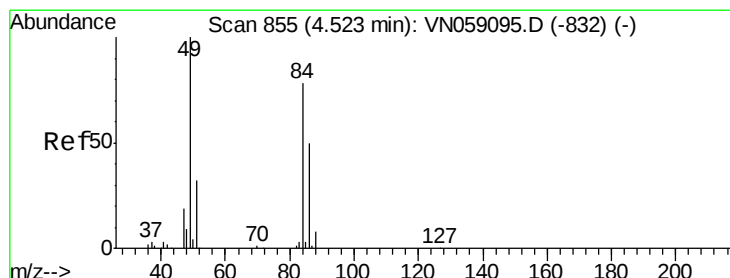
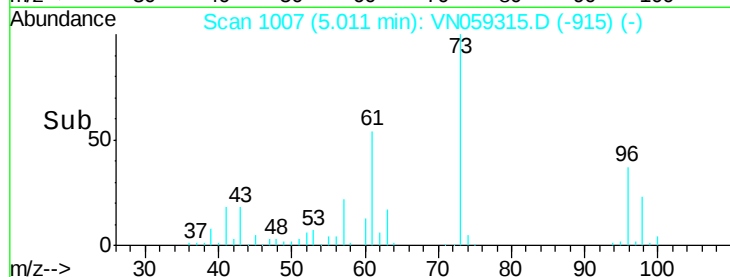
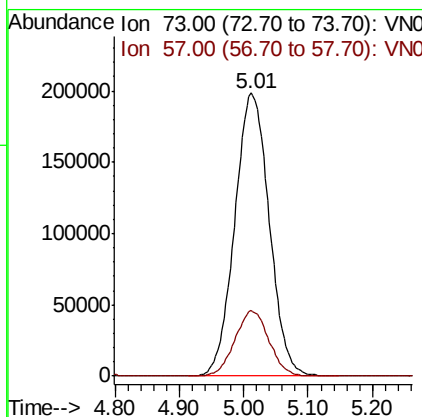
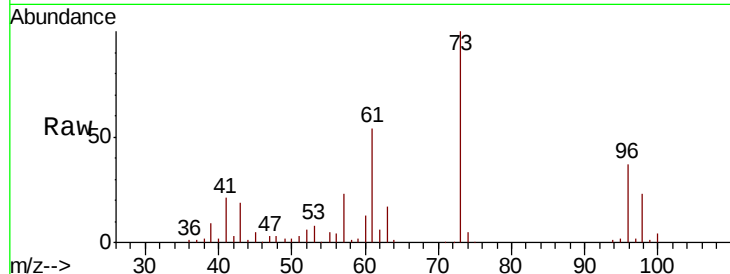
#19
Methvl tert-butvl Ether
Concen: 60.255 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 737965
Ion Ratio Lower Upper
73 100
57 23.1 18.4 27.6

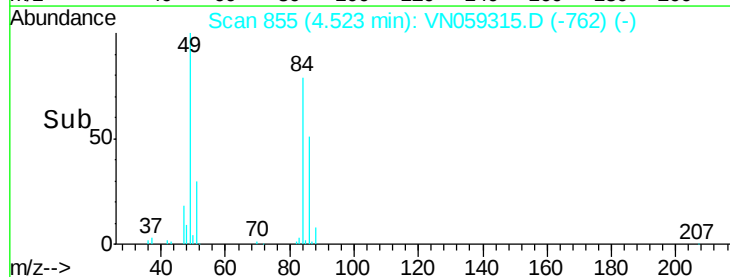
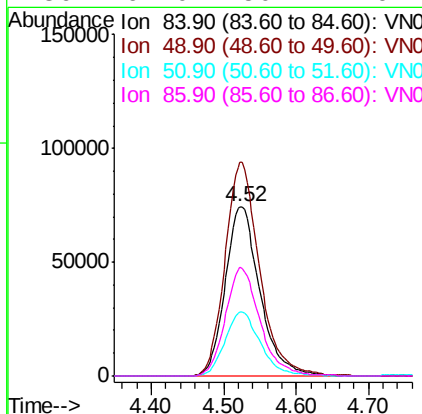
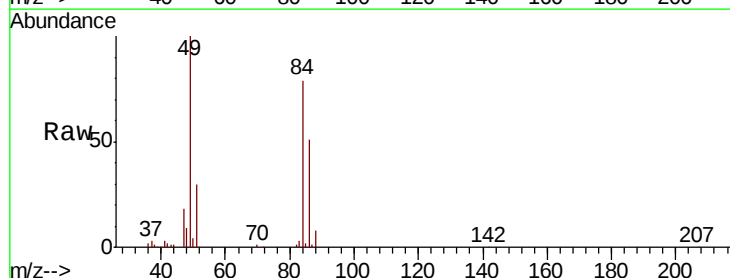
Manual Integrations
APPROVED

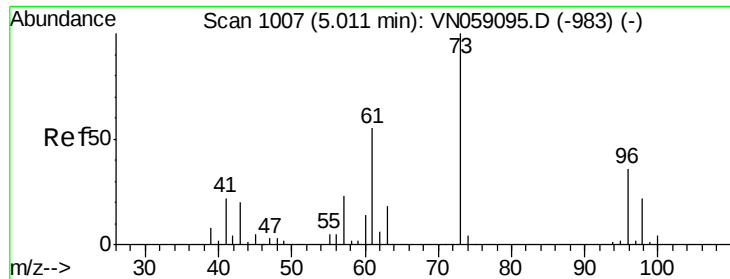
MMDadoda
11/20/2019 1:36:53 PM



#20
Methylene Chloride
Concen: 58.154 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion: 84 Resp: 246971
Ion Ratio Lower Upper
84 100
49 126.2 102.0 153.0
51 37.5 32.2 48.2
86 64.0 50.7 76.1





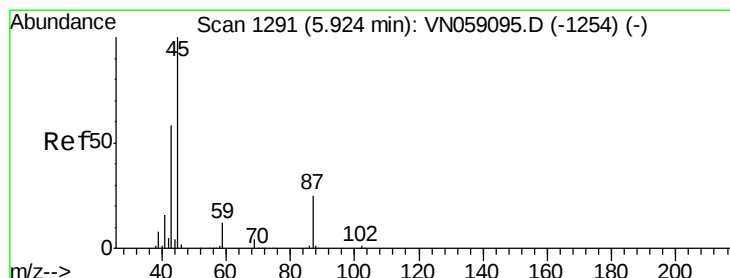
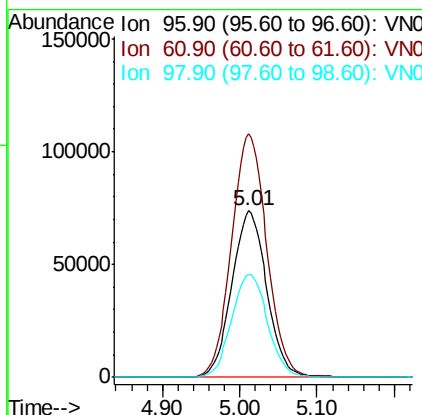
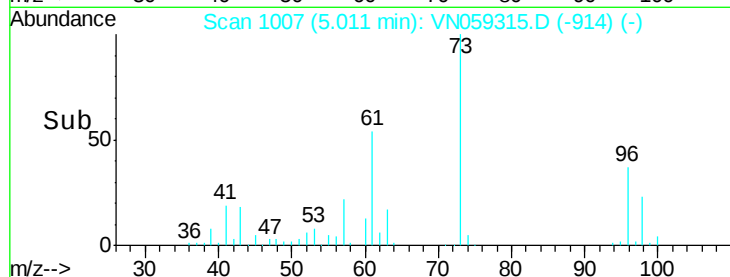
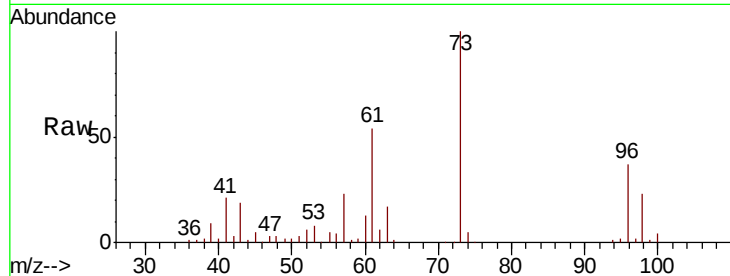
#21
trans-1,2-Dichloroethene
Concen: 60.688 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.1	122.6	183.8
98	62.0	50.3	75.5

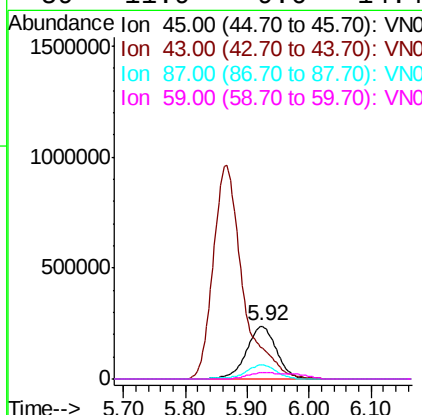
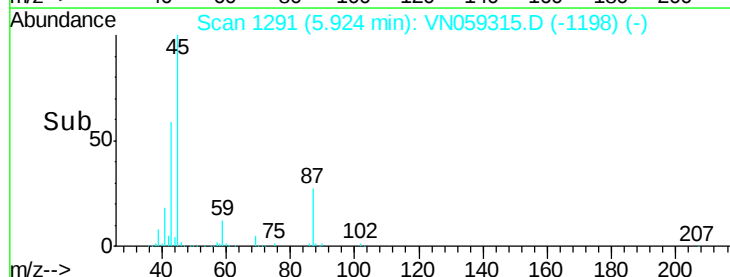
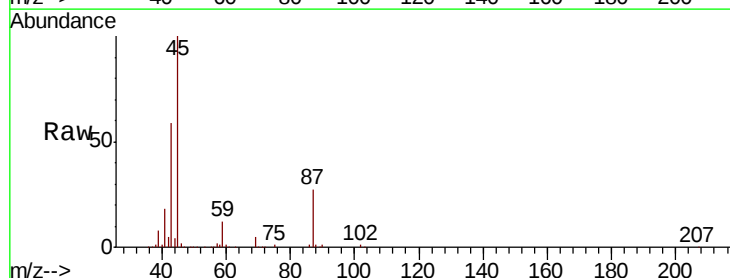
Manual Integrations
APPROVED

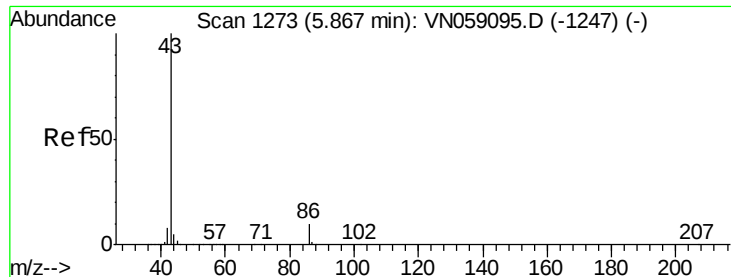
MMDadoda
11/20/2019 1:36:53 PM



#22
Diisopropyl ether
Concen: 58.044 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.1	46.7	70.1
87	27.0	20.5	30.7
59	11.9	9.6	14.4





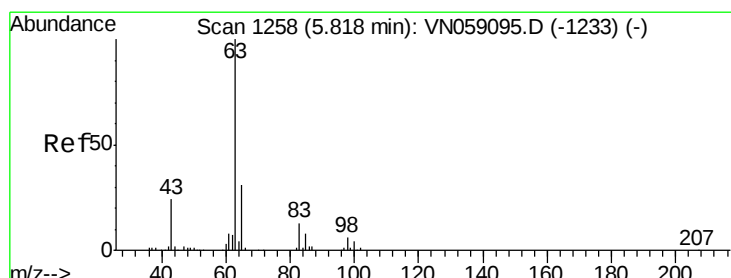
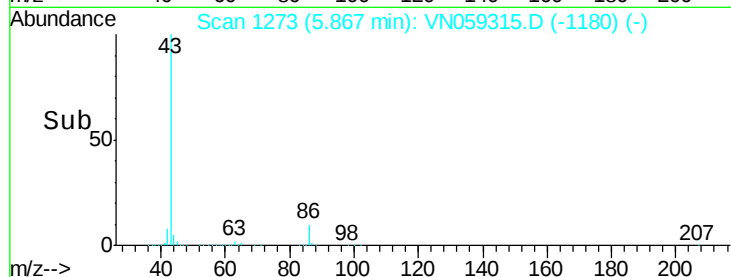
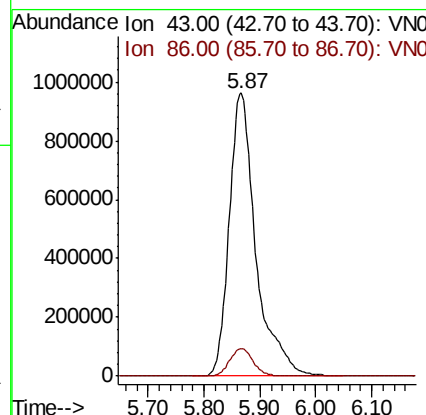
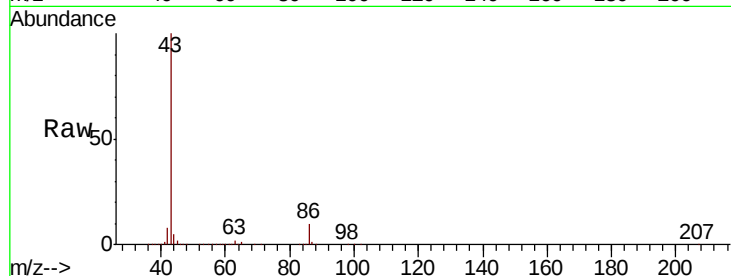
#23
 Vinyl Acetate
 Concen: 298.999 ug/l
 RT: 5.87 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 3198375
 Ion Ratio Lower Upper
 43 100
 86 9.9 7.7 11.5

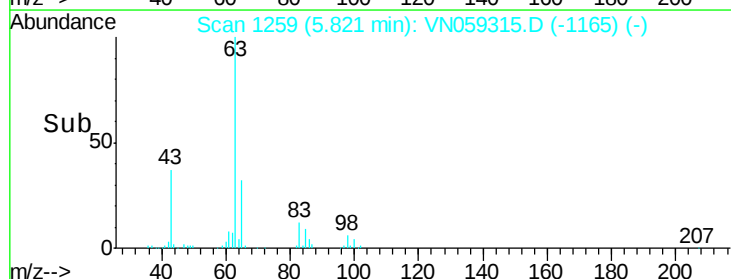
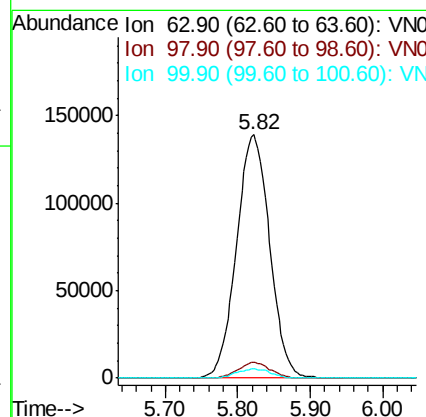
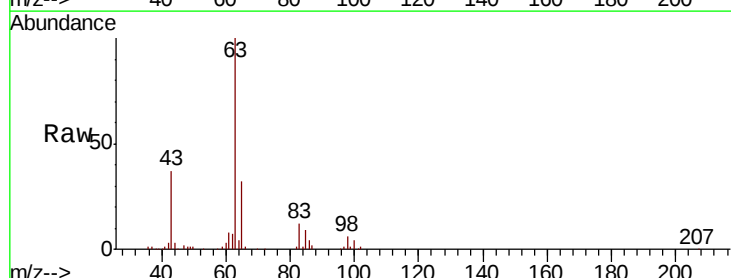
Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:36:53 PM



#24
 1,1-Dichloroethane
 Concen: 57.493 ug/l
 RT: 5.82 min Scan# 1259
 Delta R.T. 0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Tgt Ion: 63 Resp: 443208
 Ion Ratio Lower Upper
 63 100
 98 6.3 2.8 8.4
 100 3.7 1.9 5.7





#25

2-Butanone

Concen: 276.813 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 889321

Ion Ratio Lower Upper

43 100

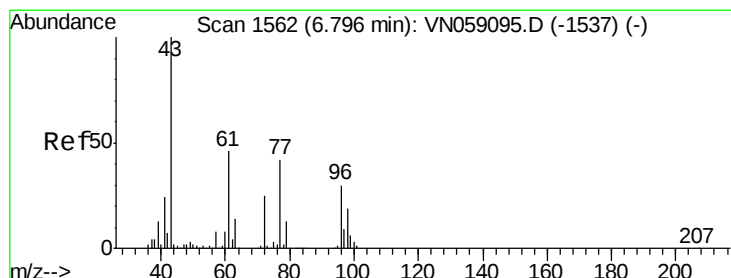
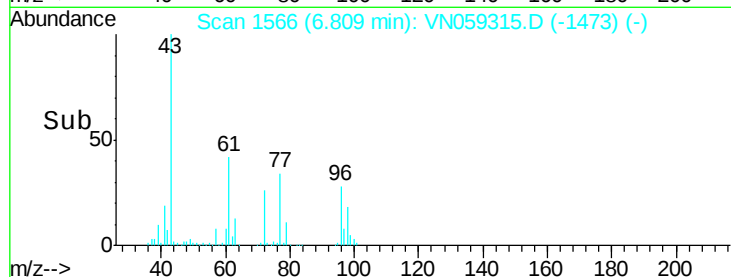
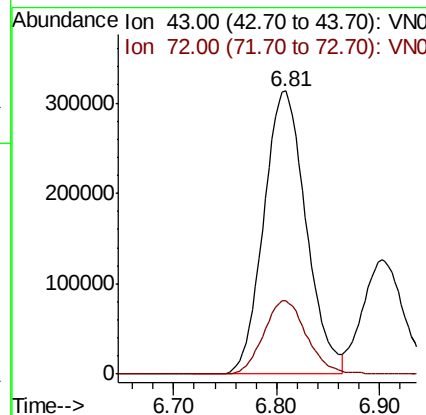
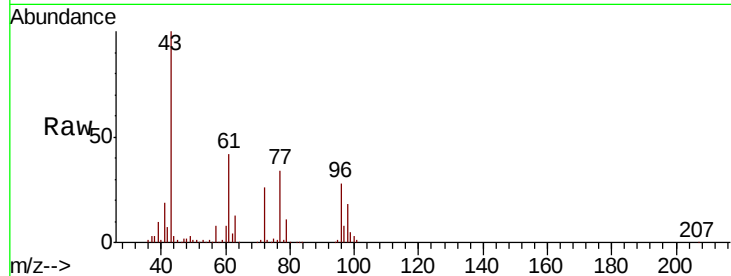
72 26.0 20.3 30.5

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:36:53 PM



#26

2,2-Dichloropropane

Concen: 55.084 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VN059315.D

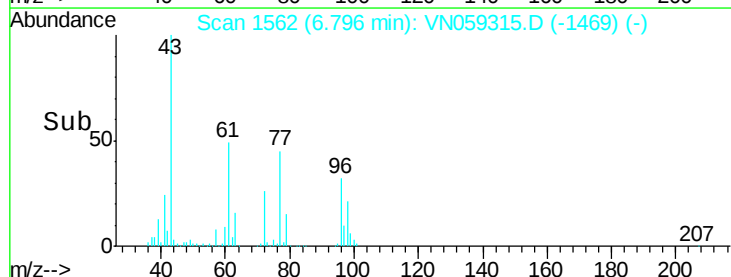
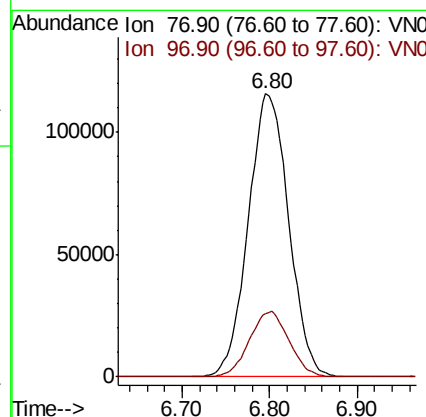
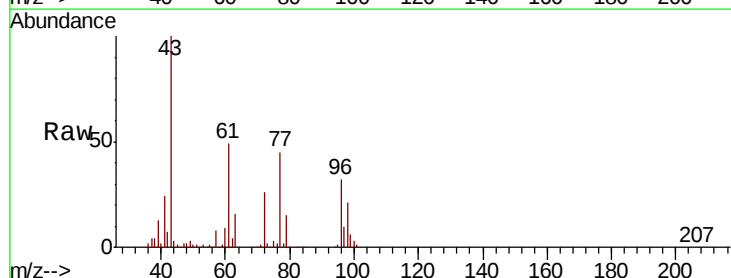
Acq: 19 Nov 2019 19:04

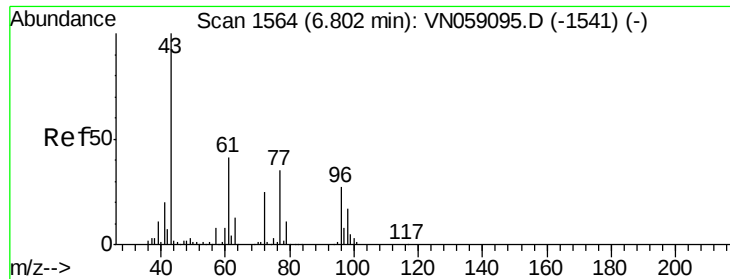
Tgt Ion: 77 Resp: 371306

Ion Ratio Lower Upper

77 100

97 22.7 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 59.653 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

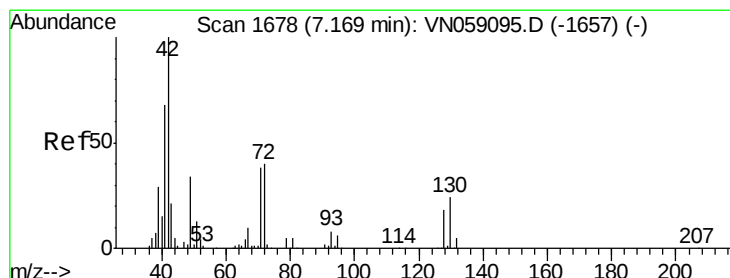
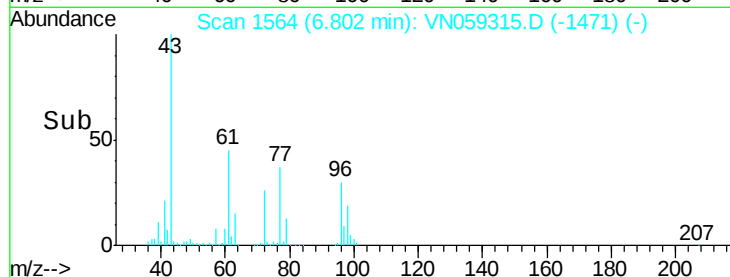
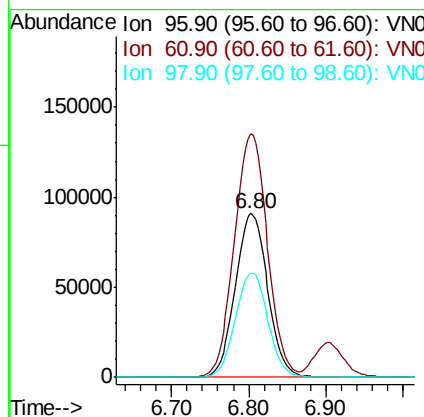
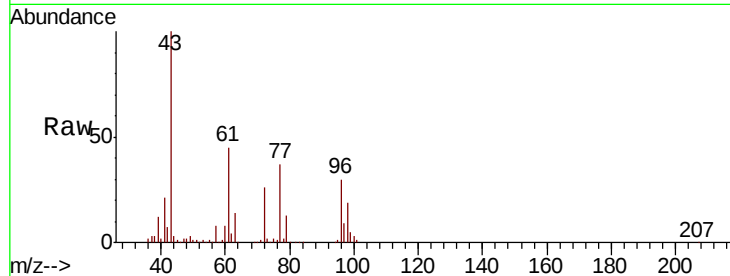
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	264262
Ion	Ratio	Lower	Upper
96	100		
61	151.7	0.0	311.6
98	64.2	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#28

Bromochloromethane

Concen: 47.568 ug/l

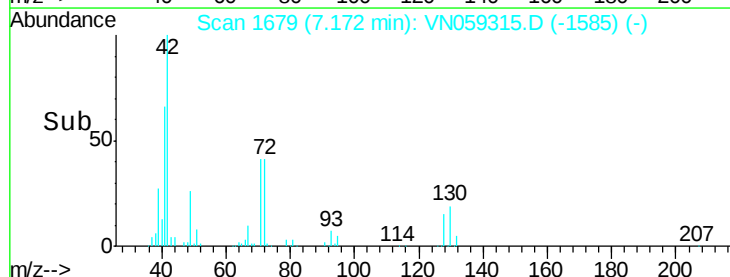
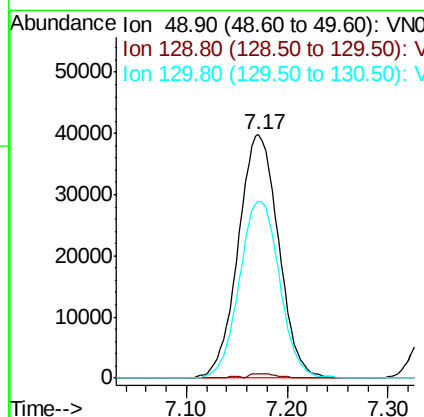
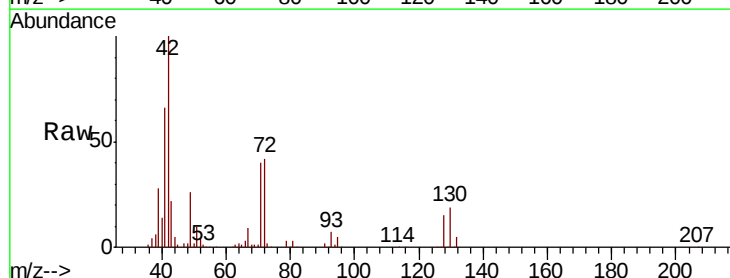
RT: 7.17 min Scan# 1679

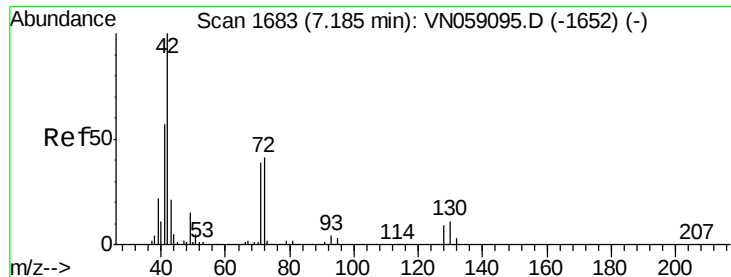
Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion:	49	Resp:	110323
Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	3.8
130	72.3	55.6	83.4





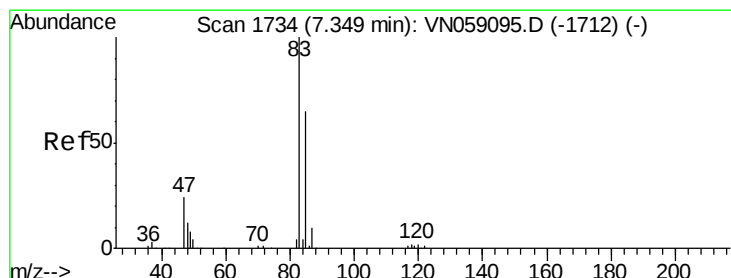
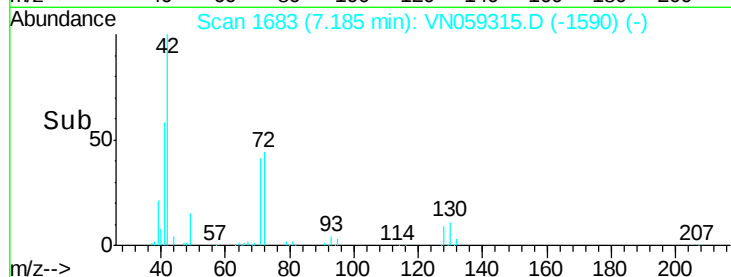
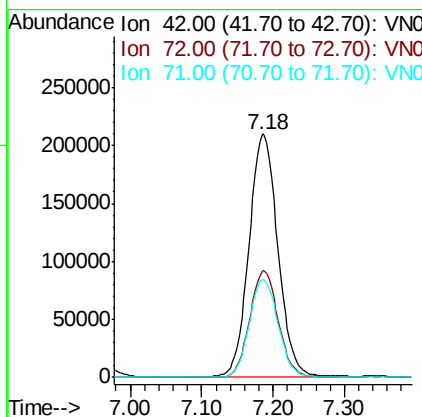
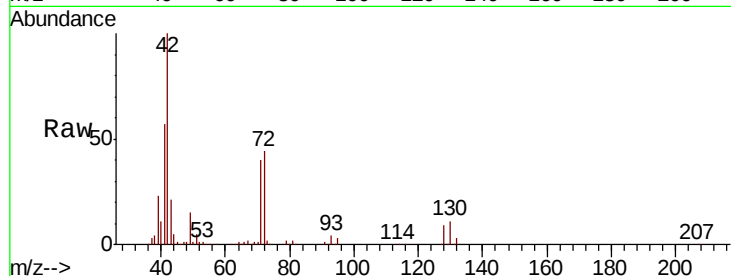
#29
Tetrahydrofuran
Concen: 289.079 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.2	33.1	49.7
71	40.2	30.9	46.3

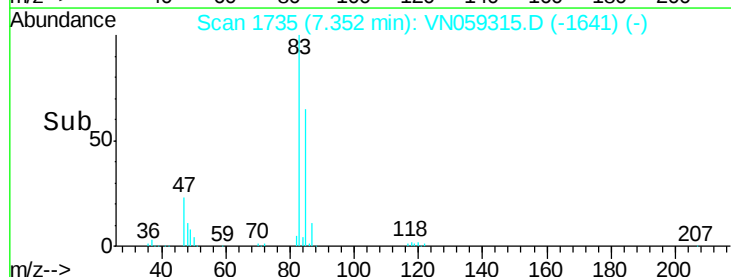
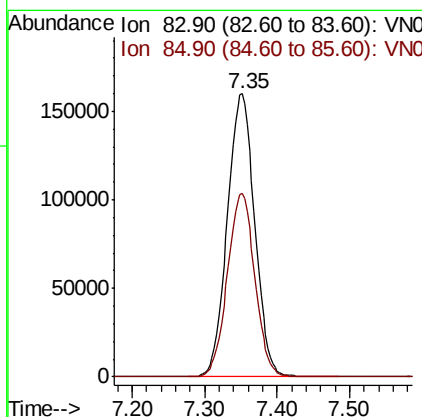
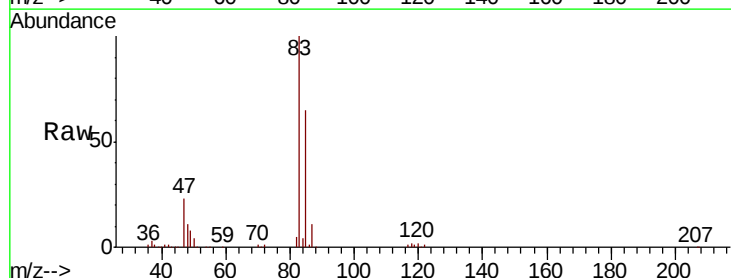
Manual Integrations
APPROVED

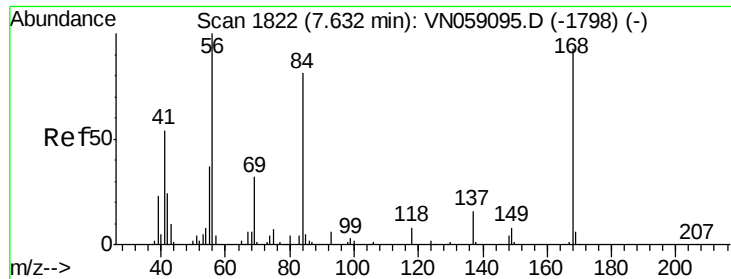
MMDadoda
11/20/2019 1:36:53 PM



#30
Chloroform
Concen: 56.804 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.8





#31

Cyclohexane

Concen: 57.773 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

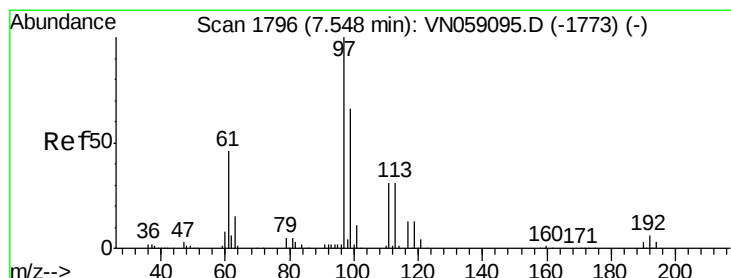
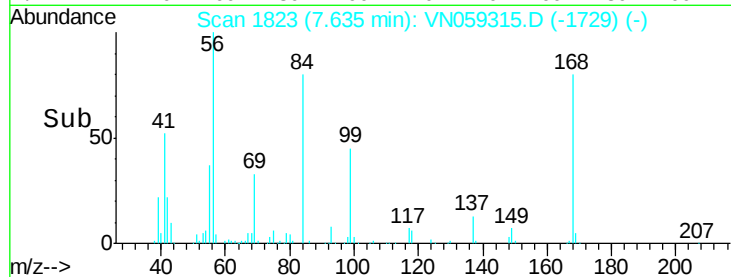
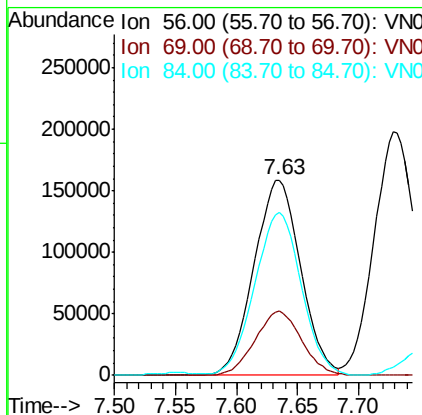
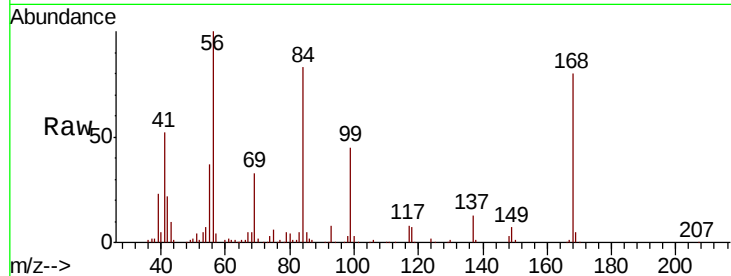
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	421618
Ion Ratio	Lower	Upper	
56	100		
69	32.7	25.8	38.8
84	82.0	65.0	97.4

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#32

1,1,1-Trichloroethane

Concen: 58.860 ug/l

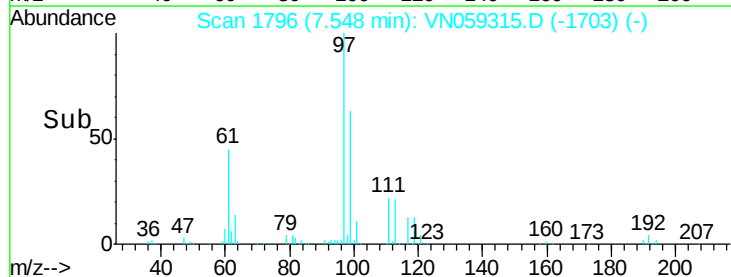
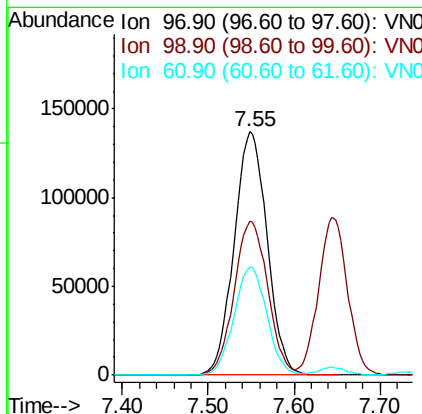
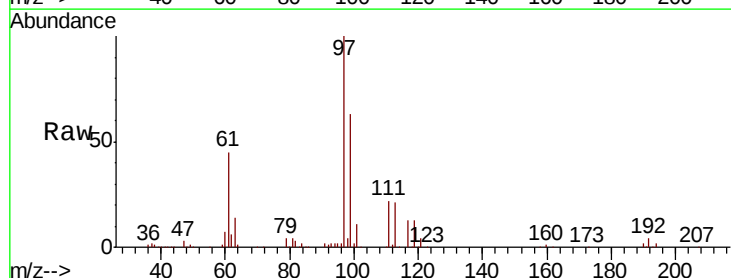
RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion:	97	Resp:	365950
Ion Ratio	Lower	Upper	
97	100		
99	64.2	51.0	76.6
61	44.3	35.8	53.8





#33

1,2-Dichloroethane-d4

Concen: 44.828 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 210141

Ion Ratio Lower Upper

65 100

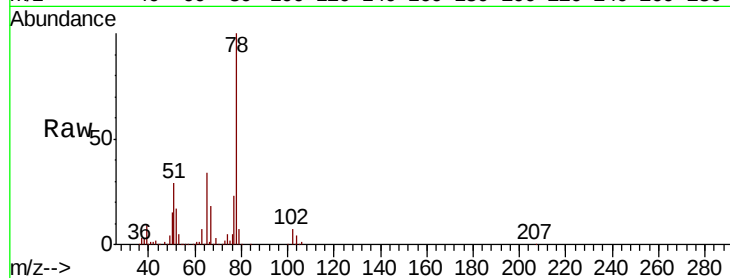
67 54.5 0.0 107.4

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:36:53 PM



Abundance Ion 64.90 (64.60 to 65.60): VN059315.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059315.D (-1845) (-)

8.01

100000

80000

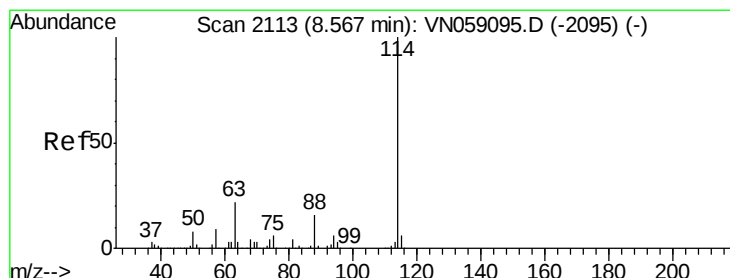
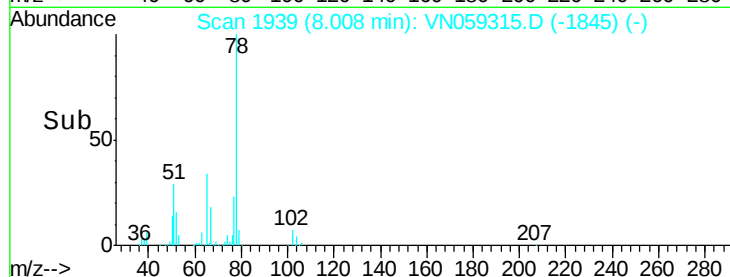
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

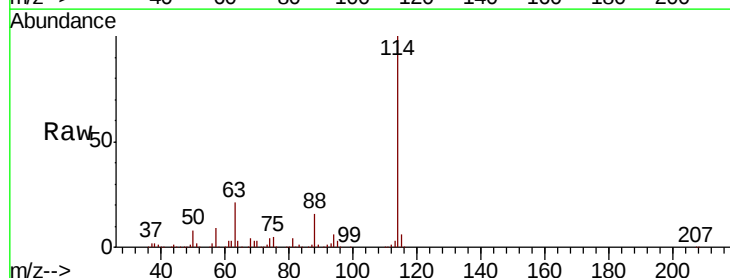
Tgt Ion: 114 Resp: 602695

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.4

88 16.0 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN059315.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN059315.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN059315.D (-2020) (-)

8.57

400000

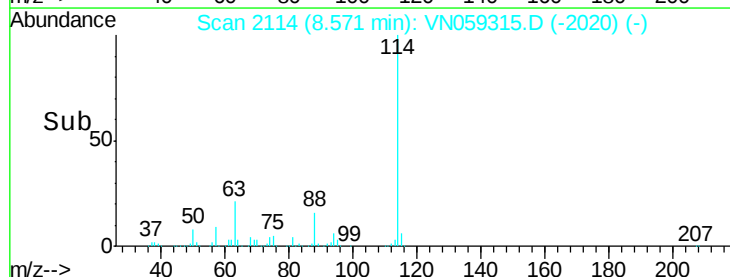
300000

200000

100000

0

Time-->





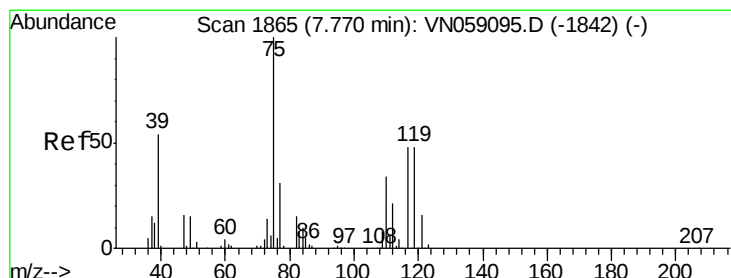
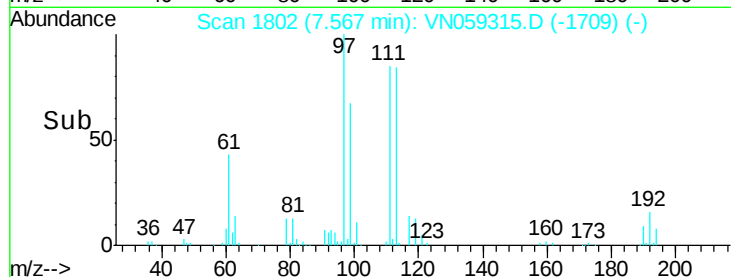
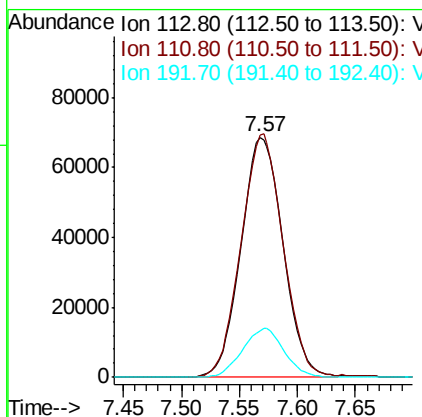
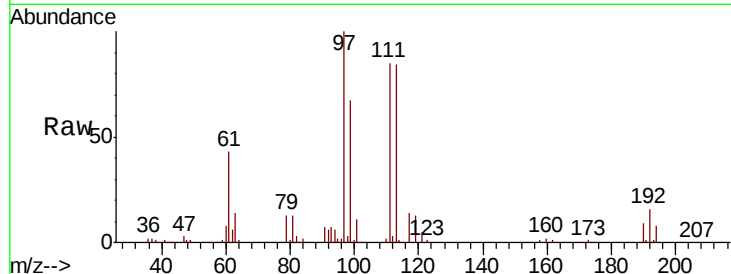
#35
Dibromofluoromethane
Concen: 48.070 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	172987		
111	101.1	82.8	124.2	
192	20.2	16.1	24.1	

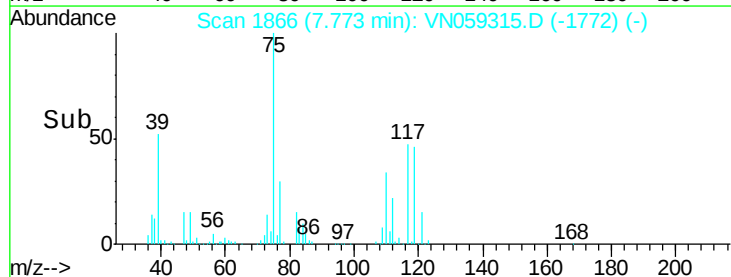
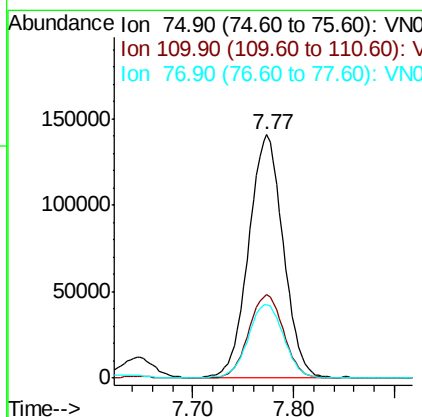
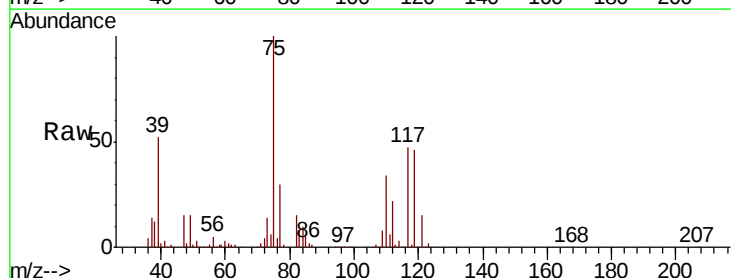
Manual Integrations
APPROVED

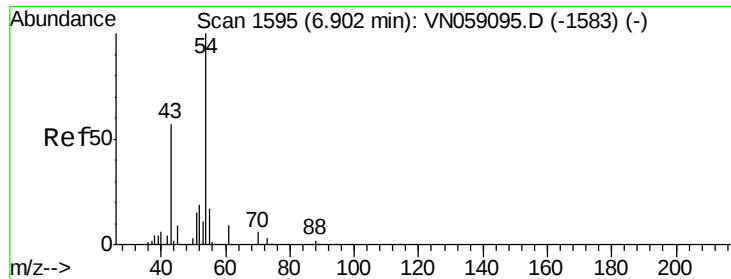
MMDadoda
11/20/2019 1:36:53 PM



#36
1,1-Dichloropropene
Concen: 59.150 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	333217		
110	34.6	17.1	51.2	
77	31.5	24.8	37.2	





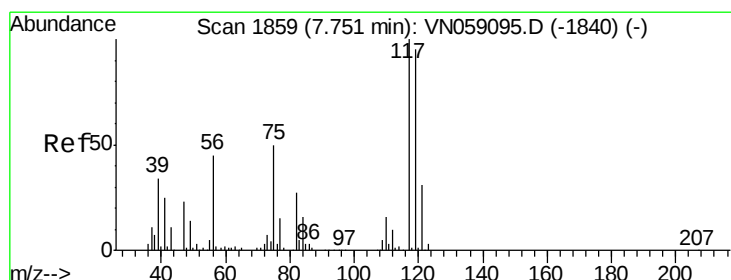
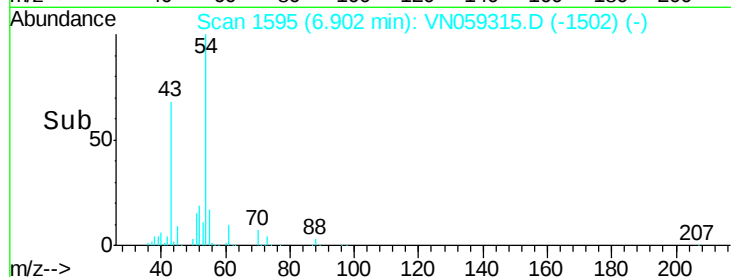
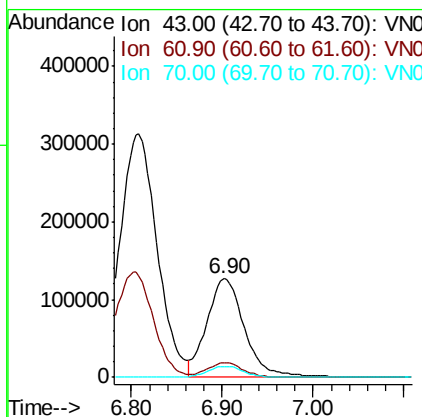
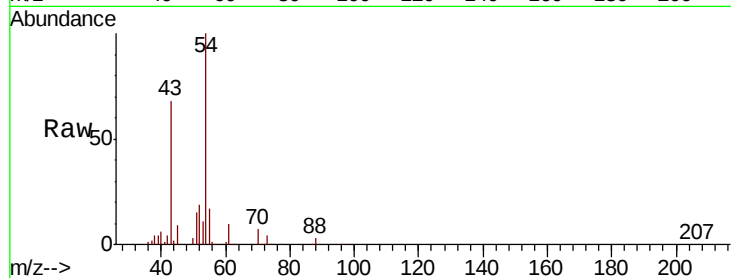
#37
Ethyl Acetate
Concen: 57.157 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.2	16.8
70	10.9	7.8	11.8

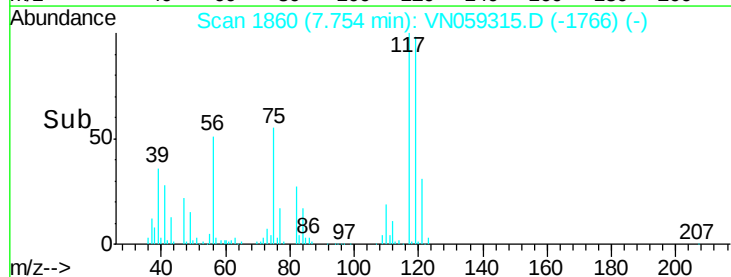
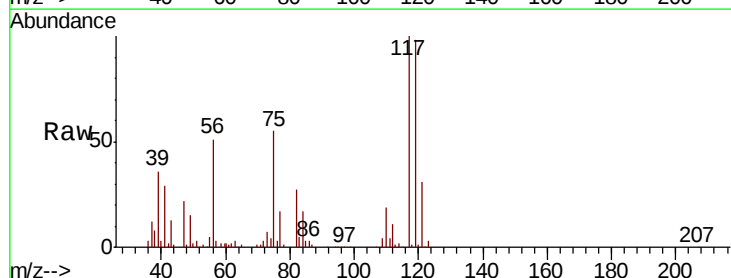
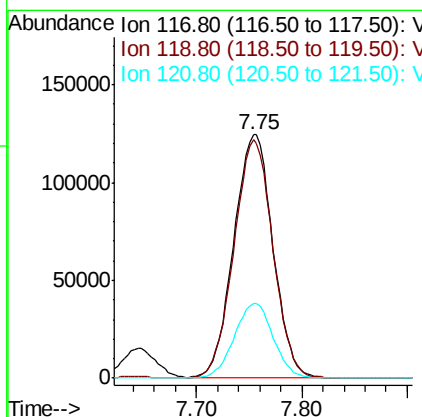
Manual Integrations
APPROVED

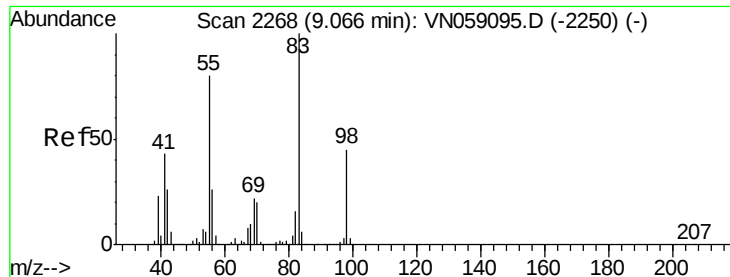
MMDadoda
11/20/2019 1:36:53 PM



#38
Carbon Tetrachloride
Concen: 57.313 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.6	75.6	113.4
121	30.9	24.6	36.8





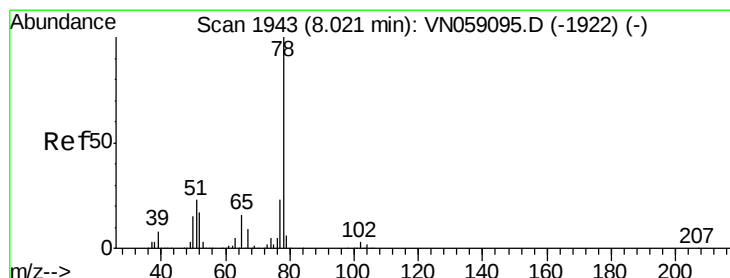
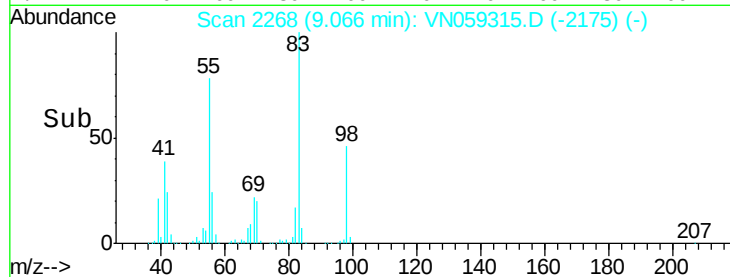
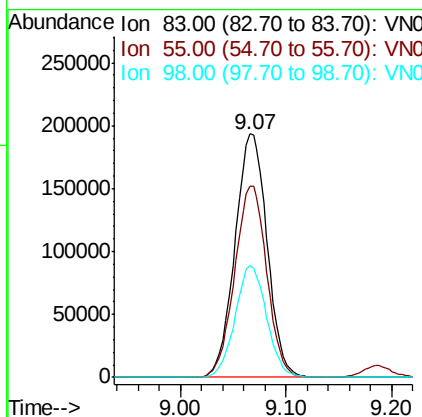
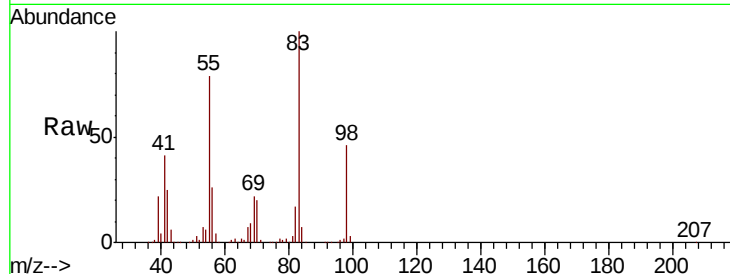
#39
Methvlcvclohexane
Concen: 62.478 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.8	63.9	95.9
98	45.8	35.6	53.4

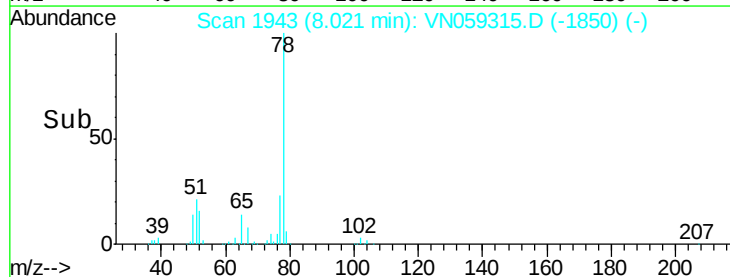
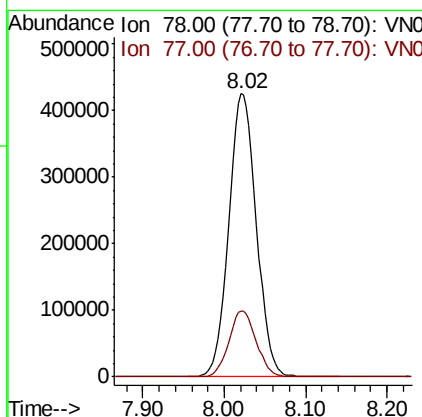
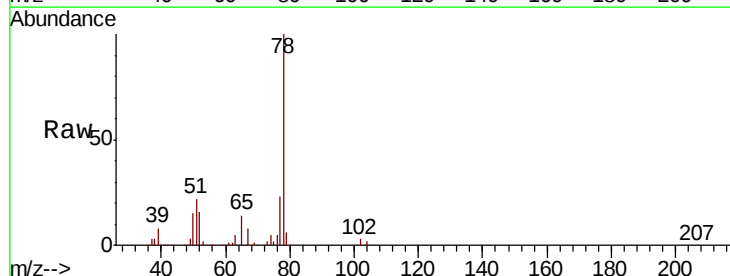
Manual Integrations
APPROVED

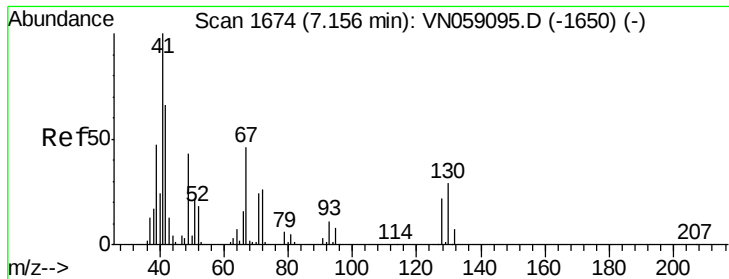
MMDadoda
11/20/2019 1:36:53 PM



#40
Benzene
Concen: 59.204 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2





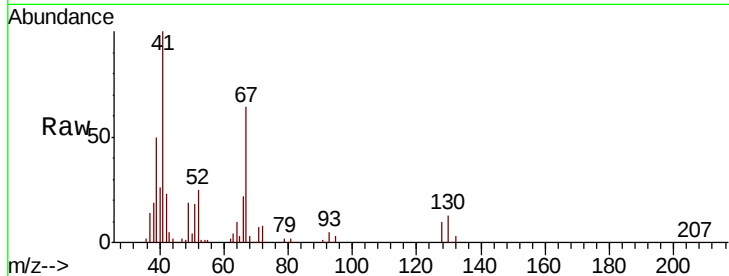
#41
Methacrylonitrile
Concen: 55.241 ug/l m
RT: 7.15 min Scan# 1671
Delta R.T. -0.01 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

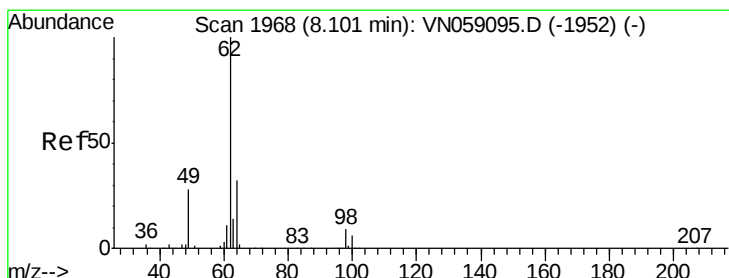
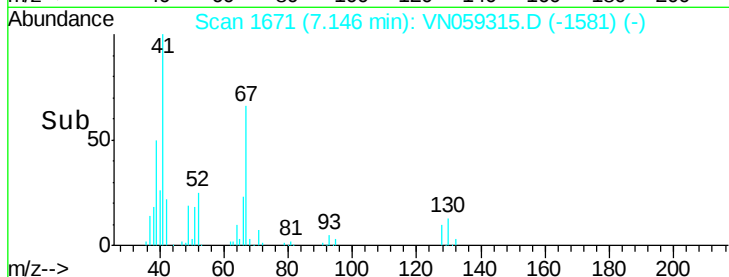
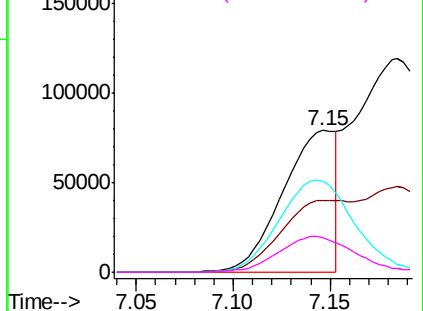
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM

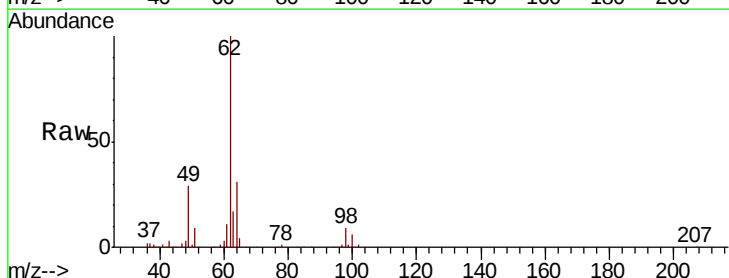


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

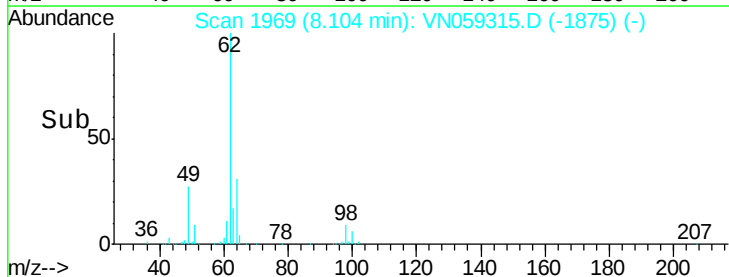
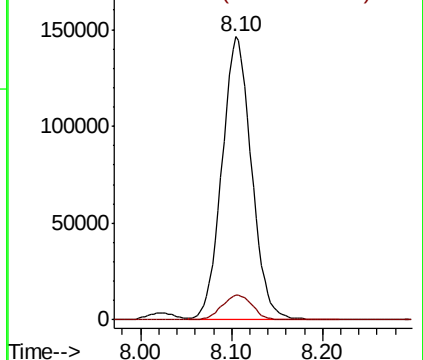


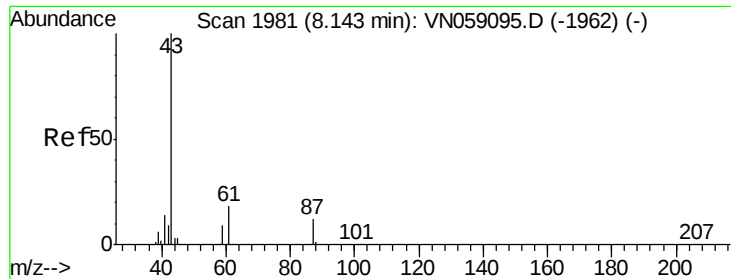
#42
1,2-Dichloroethane
Concen: 56.757 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.8



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 57.029 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

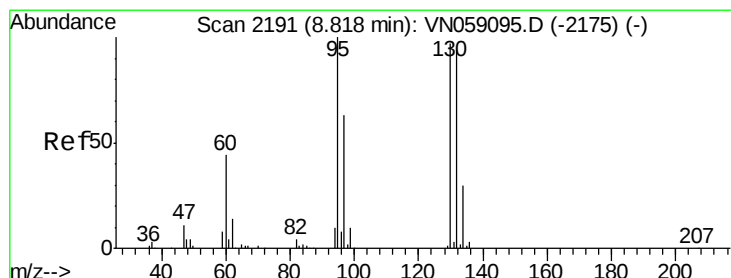
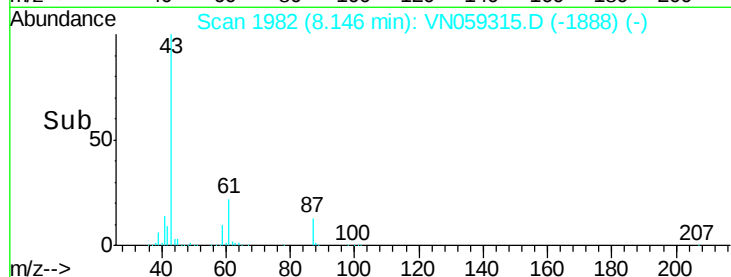
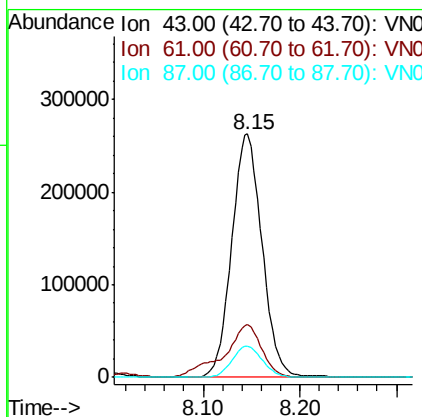
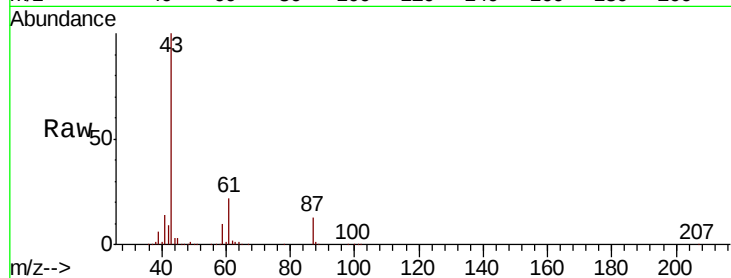
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	569795
Ion Ratio	Lower	Upper	
43	100		
61	27.1	21.0	31.6
87	13.1	9.8	14.6

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#44

Trichloroethene

Concen: 59.648 ug/l

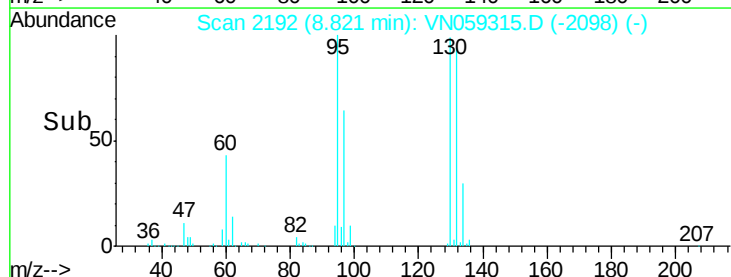
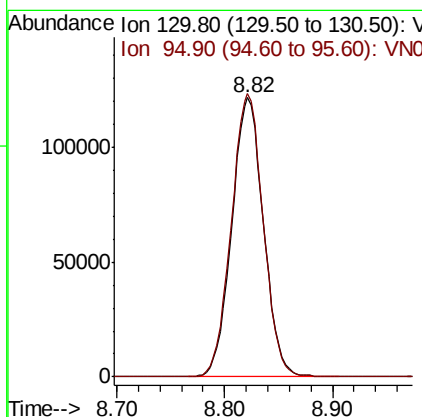
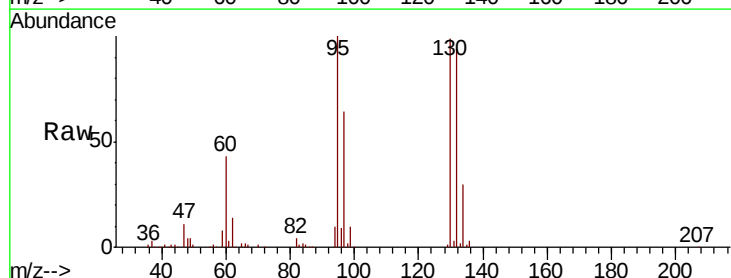
RT: 8.82 min Scan# 2192

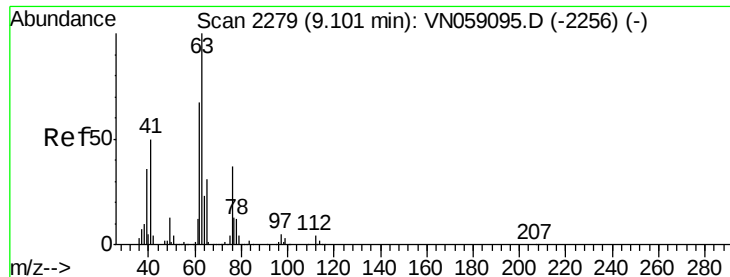
Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion:	130	Resp:	248739
Ion Ratio	Lower	Upper	
130	100		
95	101.5	0.0	206.4





#45

1,2-Dichloropropane

Concen: 57.805 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 266354

Ion Ratio Lower Upper

63 100

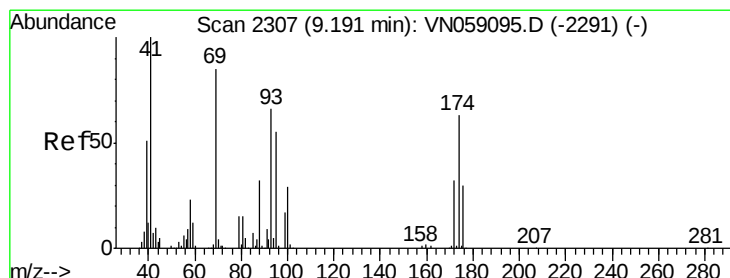
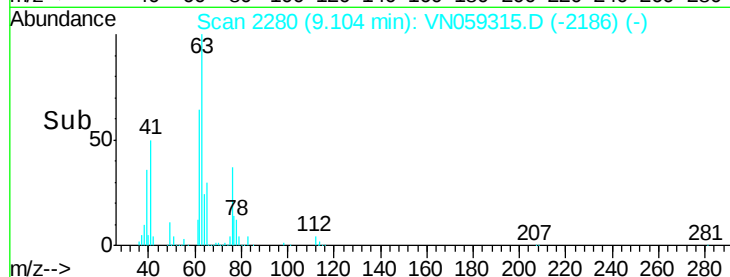
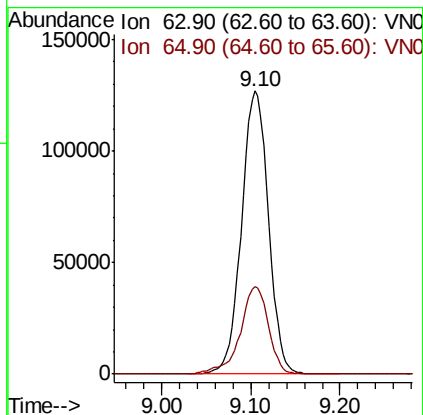
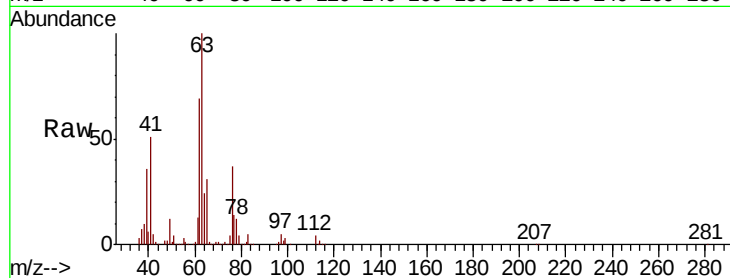
65 30.9 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:36:53 PM



#46

Dibromomethane

Concen: 57.096 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

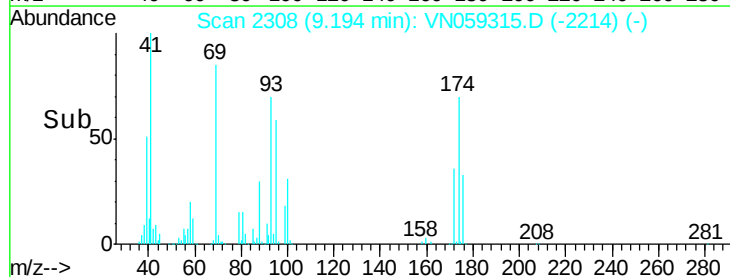
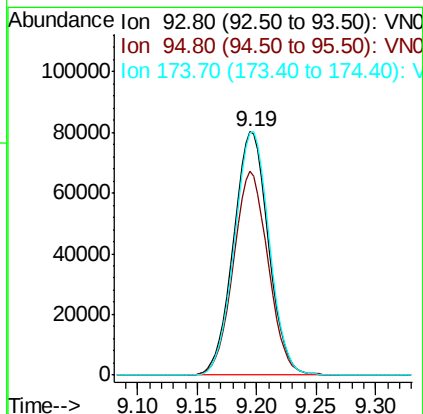
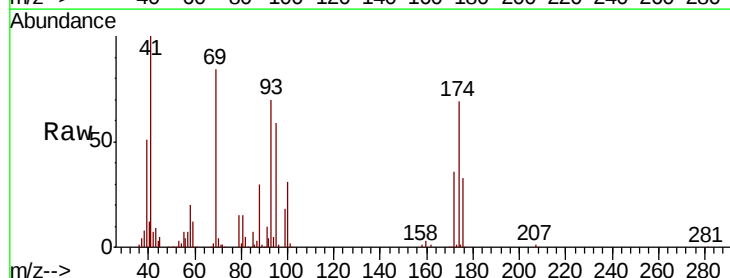
Tgt Ion: 93 Resp: 163941

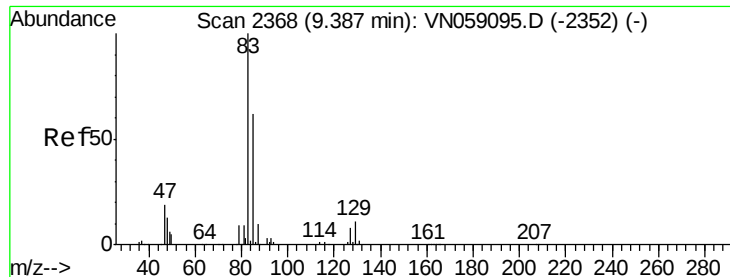
Ion Ratio Lower Upper

93 100

95 83.1 66.6 100.0

174 99.4 78.2 117.2





#47

Bromodichloromethane

Concen: 57.696 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

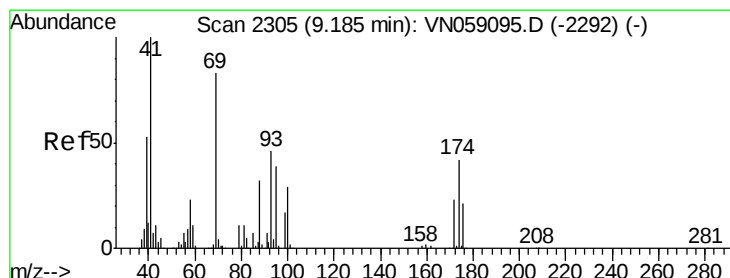
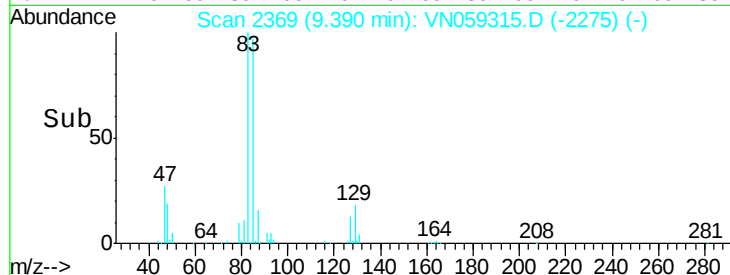
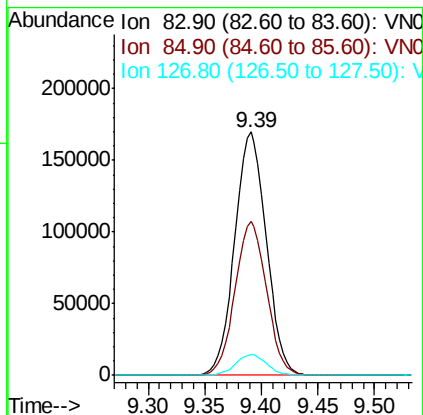
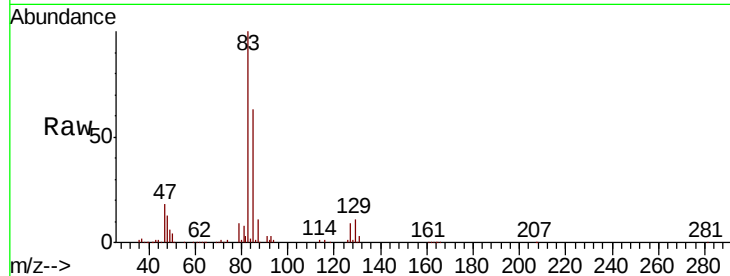
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	330806
Ion Ratio	Lower	Upper	
83	100		
85	63.1	49.7	74.5
127	8.6	6.4	9.6

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#48

Methyl methacrylate

Concen: 58.092 ug/l

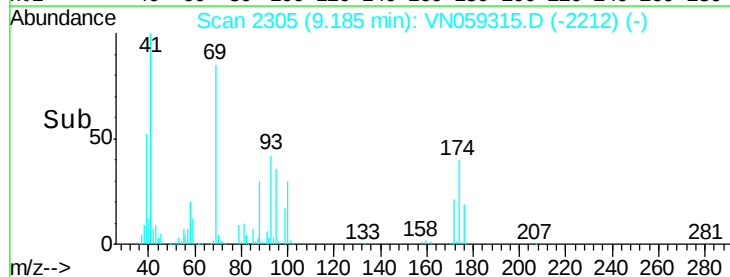
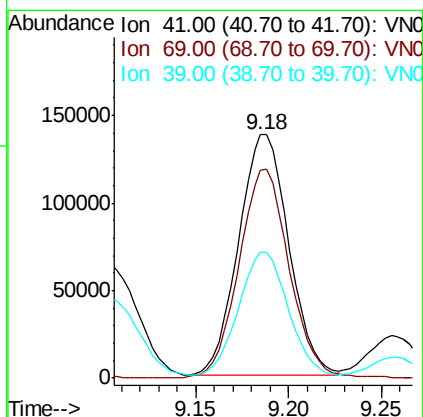
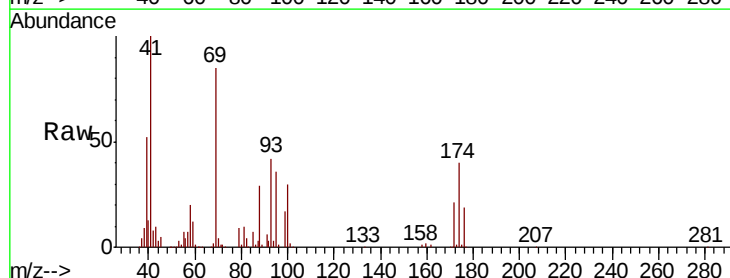
RT: 9.18 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion:	41	Resp:	259617
Ion Ratio	Lower	Upper	
41	100		
69	87.5	67.3	100.9
39	52.5	43.3	64.9





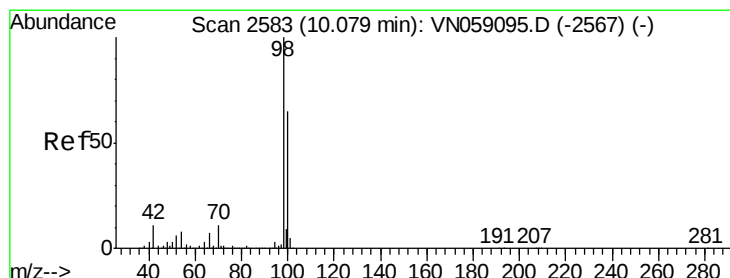
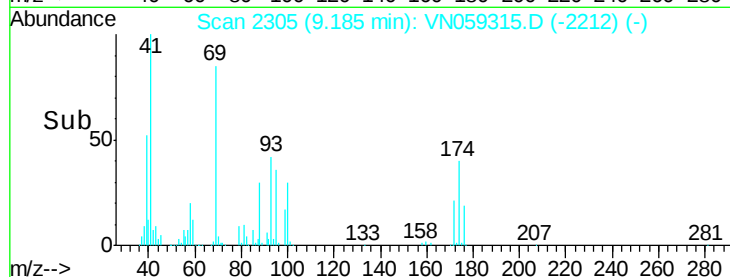
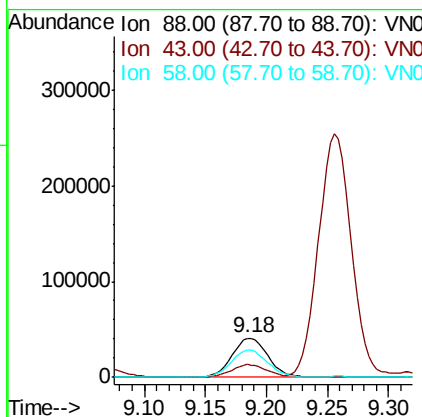
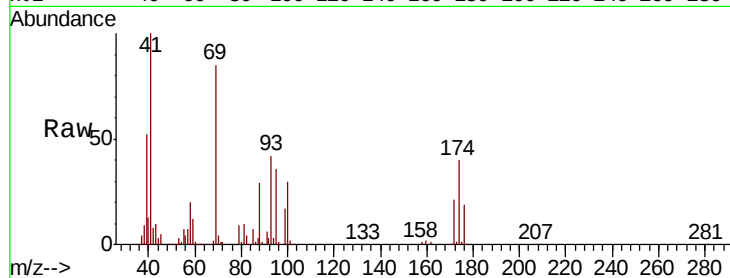
#49
1,4-Dioxane
Concen: 1051.377 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.3	26.3	39.5
58	70.8	60.6	90.8

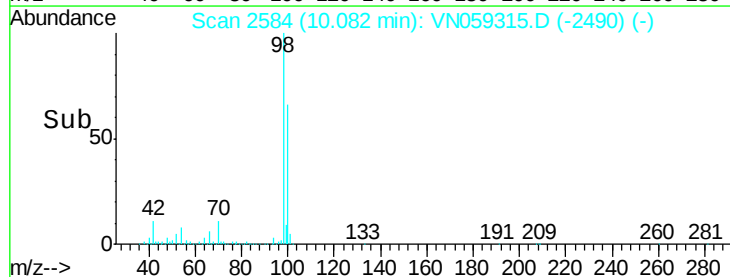
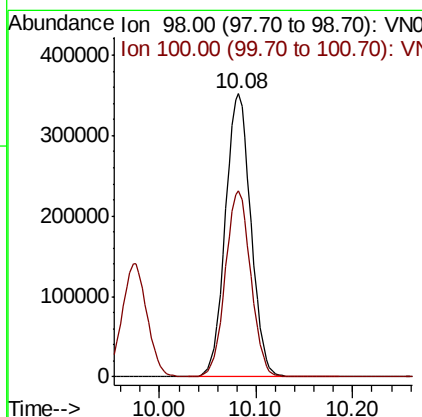
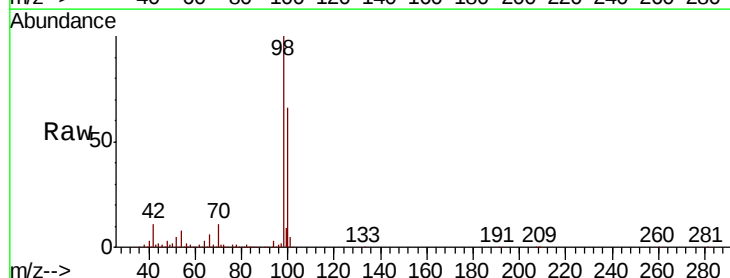
Manual Integrations
APPROVED

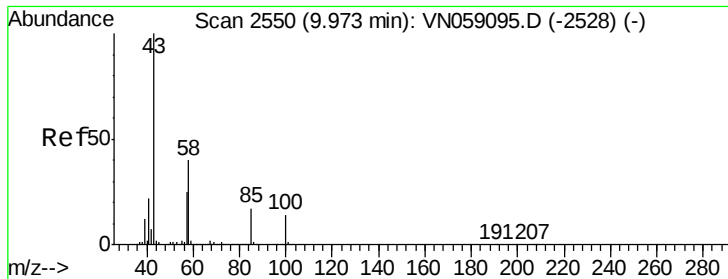
MMDadoda
11/20/2019 1:36:53 PM



#50
Toluene-d8
Concen: 45.369 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 309.291 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1748513

Ion Ratio Lower Upper

43 100

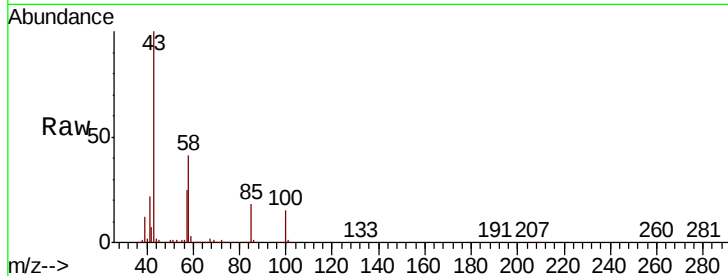
58 40.3 31.5 47.3

Manual Integrations

APPROVED

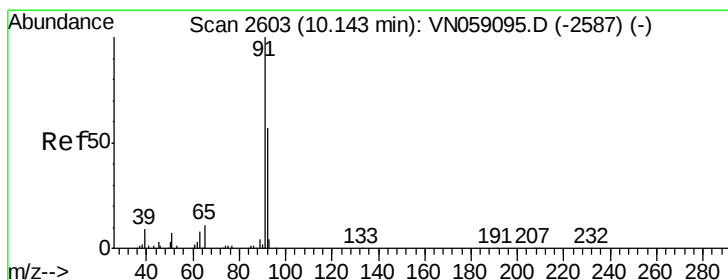
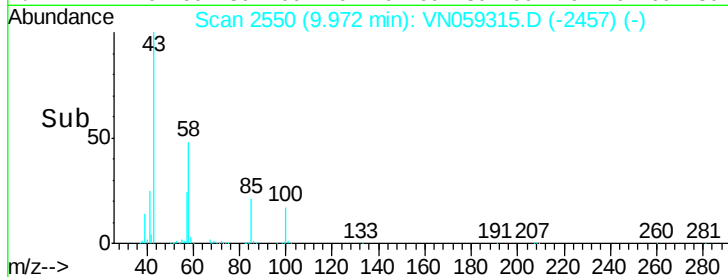
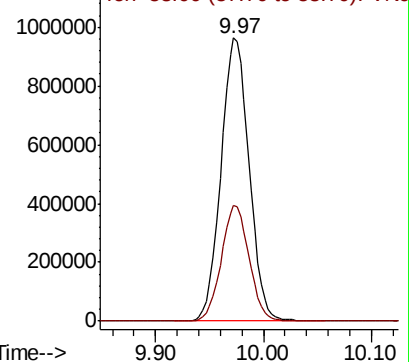
MMDadoda

11/20/2019 1:36:53 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 60.003 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059315.D

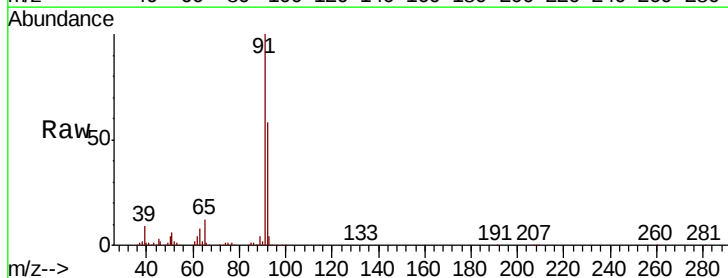
Acq: 19 Nov 2019 19:04

Tgt Ion: 92 Resp: 610108

Ion Ratio Lower Upper

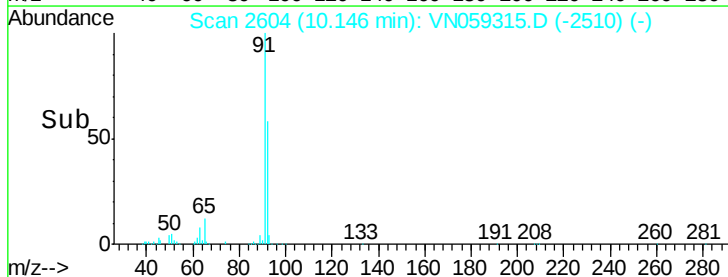
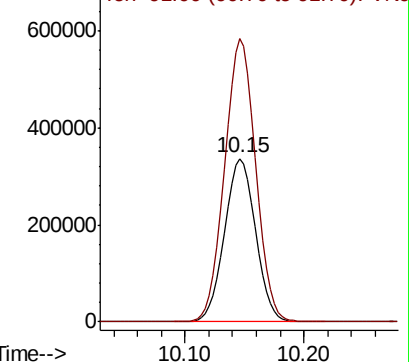
92 100

91 173.3 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 58.037 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 384446

Ion Ratio Lower Upper

75 100

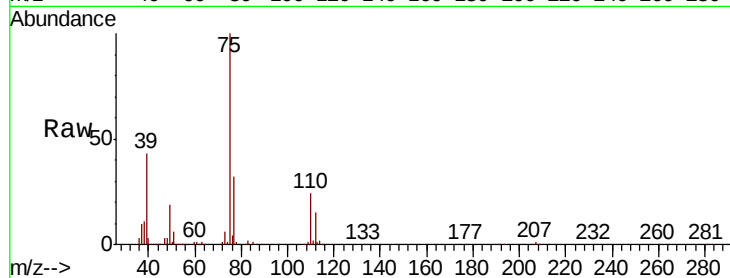
77 31.9 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:36:53 PM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.37

250000

200000

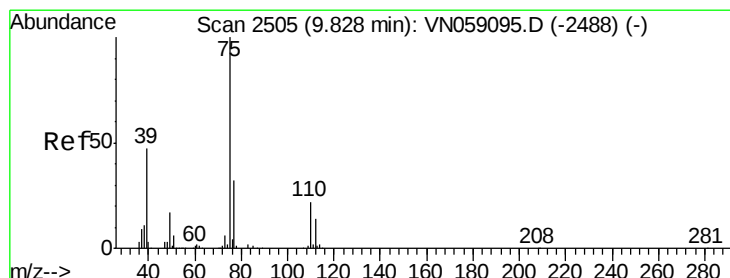
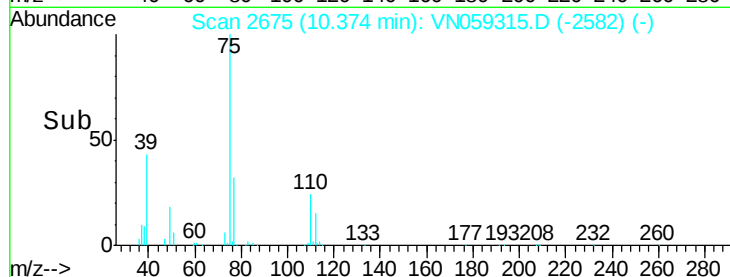
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 59.121 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

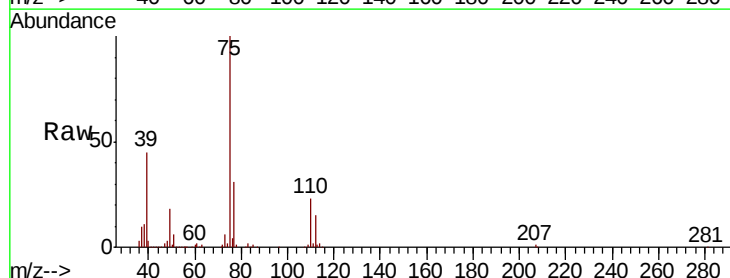
Tgt Ion: 75 Resp: 421267

Ion Ratio Lower Upper

75 100

77 31.4 25.5 38.3

39 44.9 37.3 55.9



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

9.83

300000

250000

200000

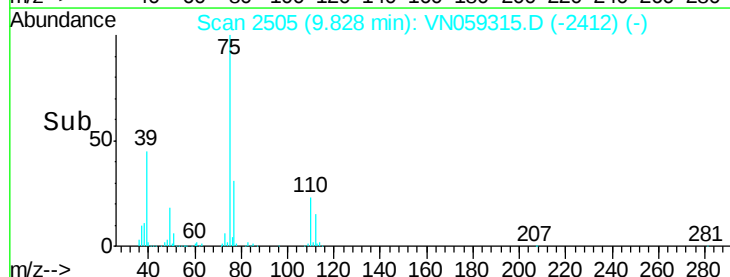
150000

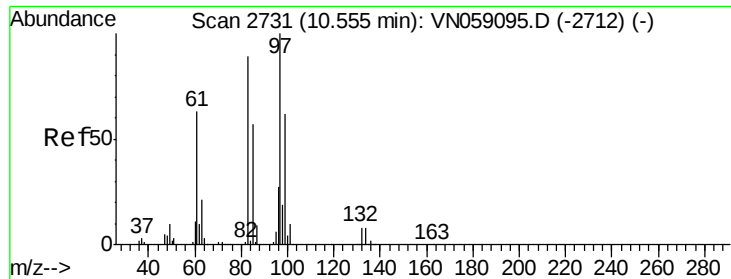
100000

50000

0

Time-->





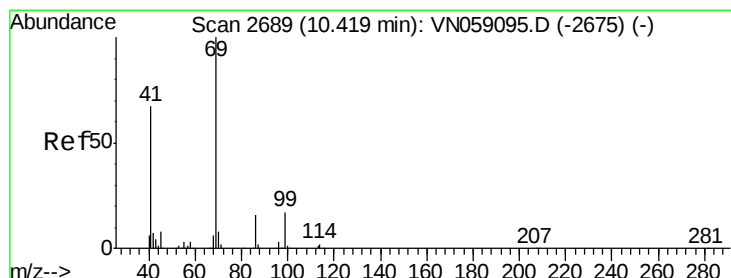
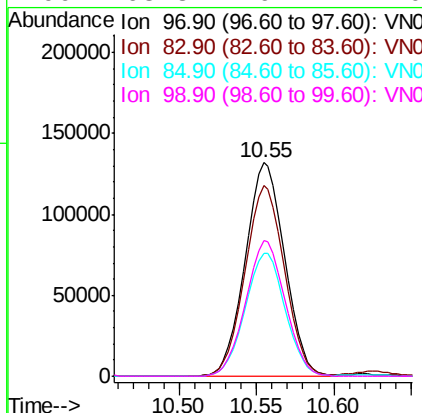
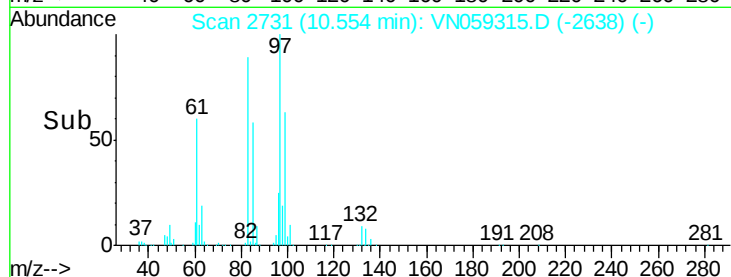
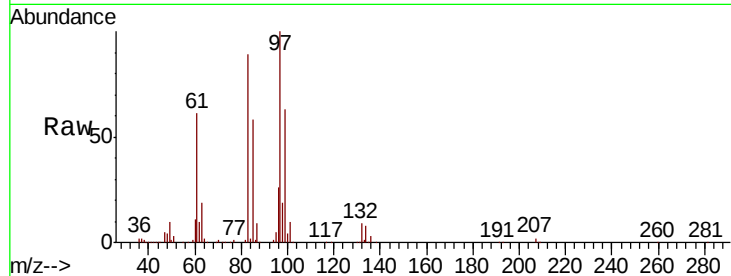
#55
 1,1,2-Trichloroethane
 Concen: 57.128 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	235083
Ion	Ratio	Lower	Upper
97	100		
83	89.1	71.0	106.4
85	57.6	45.8	68.8
99	63.3	49.4	74.0

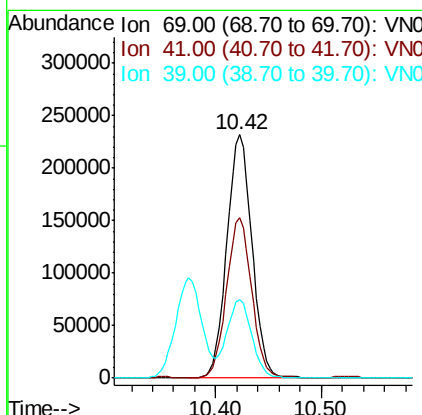
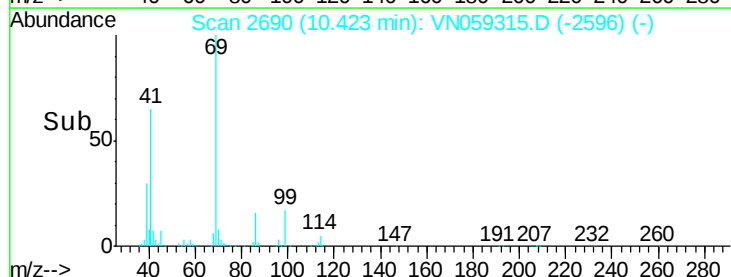
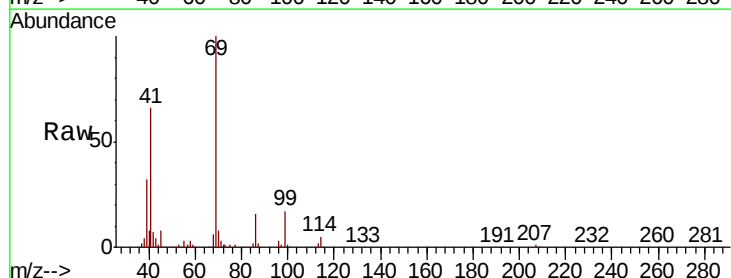
Manual Integrations
 APPROVED

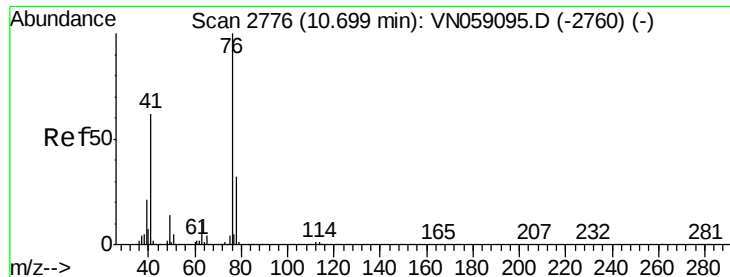
MMDadoda
 11/20/2019 1:36:53 PM



#56
 Ethyl methacrylate
 Concen: 55.591 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Tgt Ion:	69	Resp:	383037
Ion	Ratio	Lower	Upper
69	100		
41	65.0	53.6	80.4
39	31.6	26.2	39.4





#57

1,3-Dichloropropane

Concen: 57.954 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 410457

Ion Ratio Lower Upper

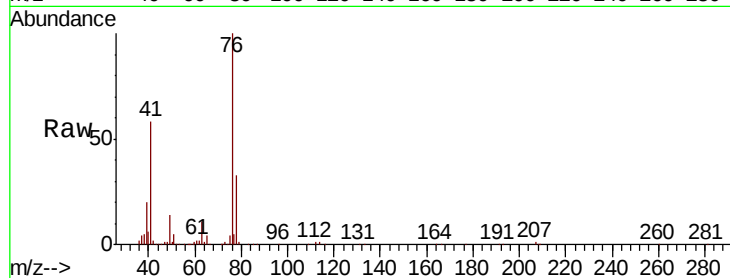
76 100

78 32.9 25.8 38.8

Manual Integrations
APPROVED

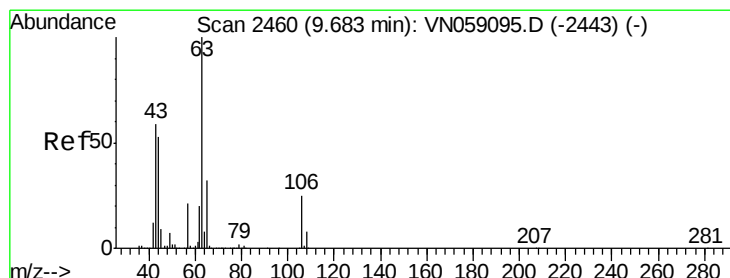
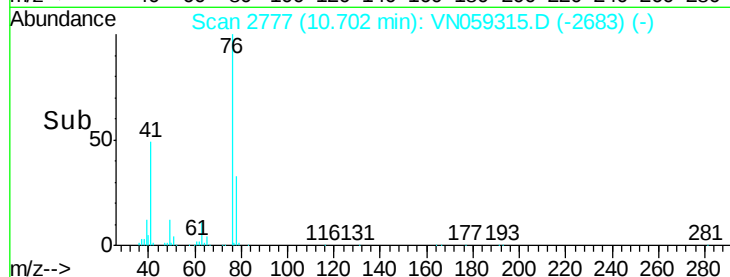
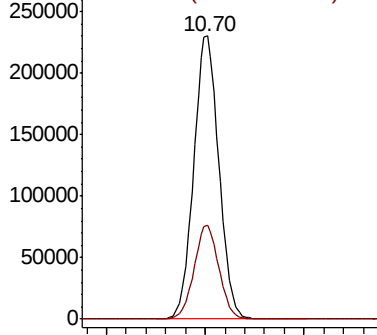
MMDadoda

11/20/2019 1:36:53 PM



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: 280.367 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. -0.00 min

Lab File: VN059315.D

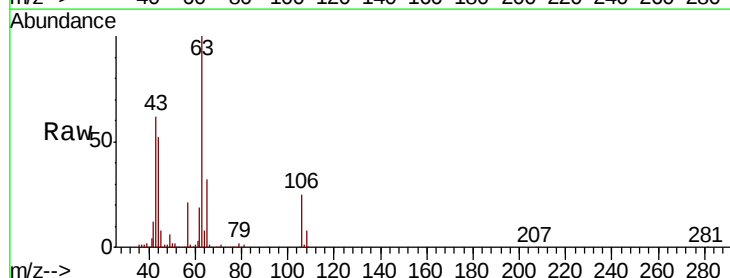
Acq: 19 Nov 2019 19:04

Tgt Ion: 63 Resp: 642074

Ion Ratio Lower Upper

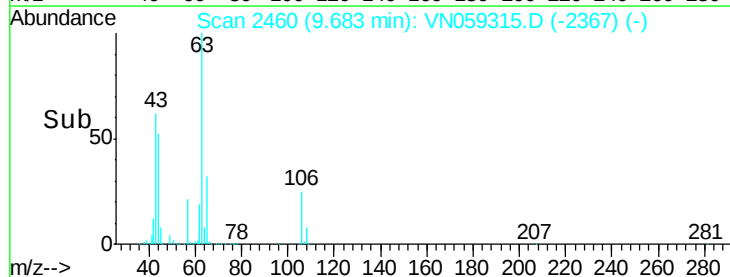
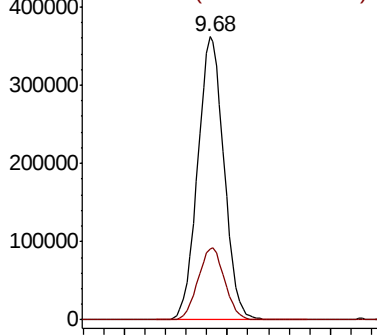
63 100

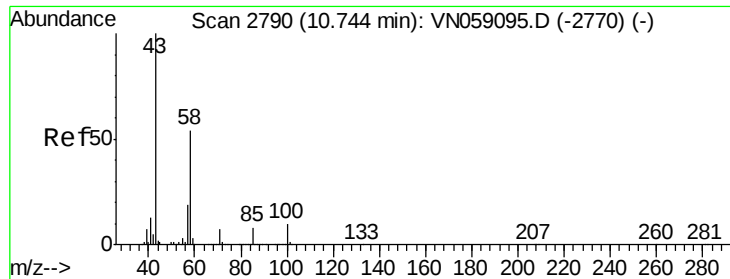
106 25.7 20.2 30.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





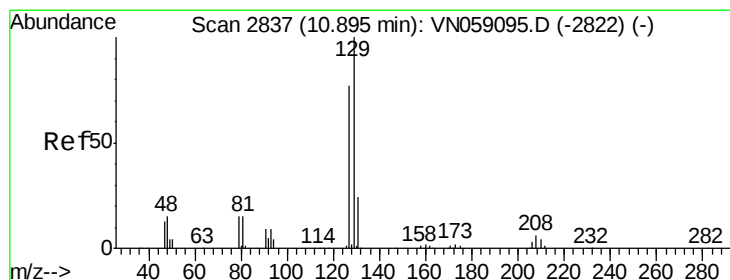
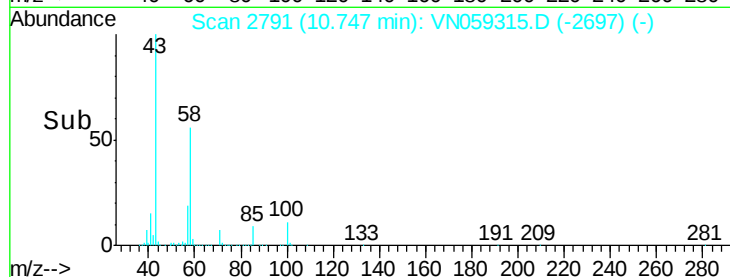
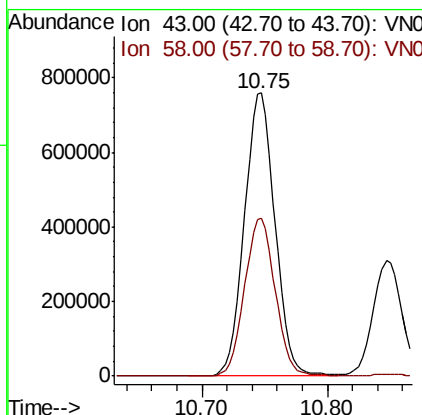
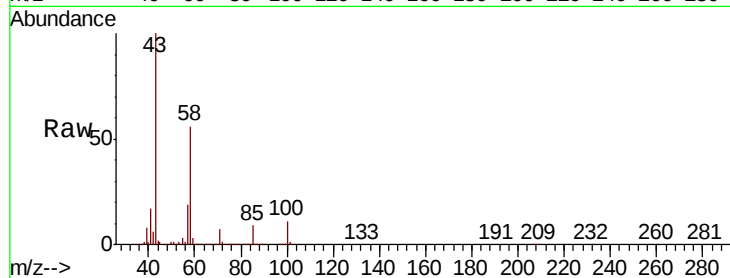
#59
2-Hexanone
Concen: 296.702 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1287440
Ion Ratio Lower Upper
43 100
58 56.1 27.3 81.8

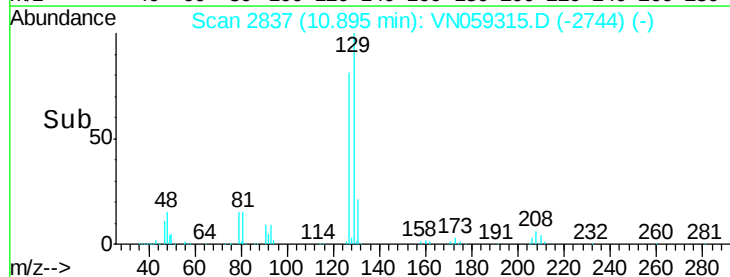
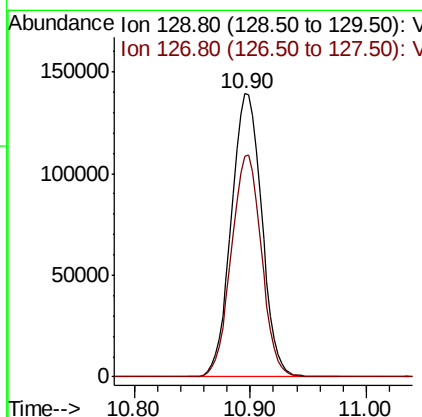
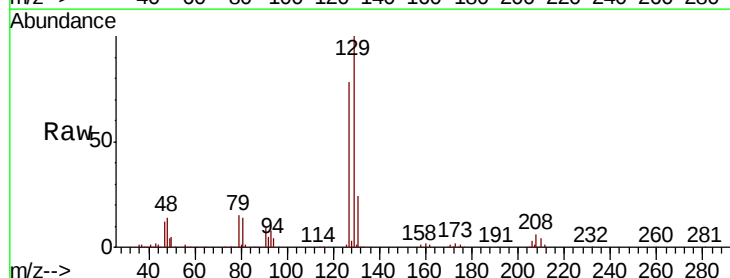
Manual Integrations
APPROVED

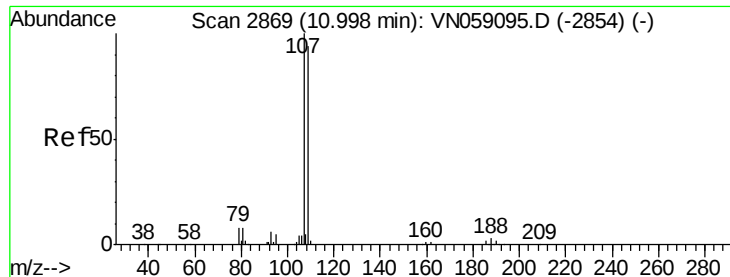
MMDadoda
11/20/2019 1:36:53 PM



#60
Dibromochloromethane
Concen: 58.334 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion: 129 Resp: 253798
Ion Ratio Lower Upper
129 100
127 77.5 38.6 115.8





#61

1,2-Dibromoethane

Concen: 59.807 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 107 Resp: 249139

Ion Ratio Lower Upper

107 100

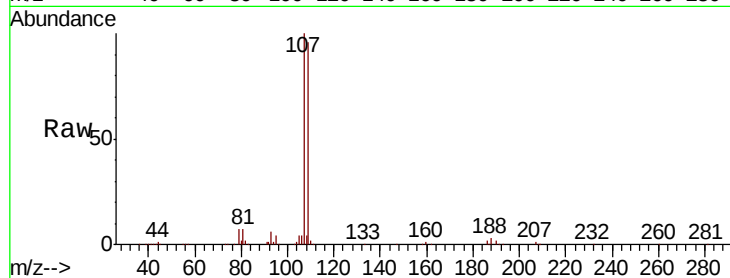
109 93.7 75.5 113.3

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:36:53 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

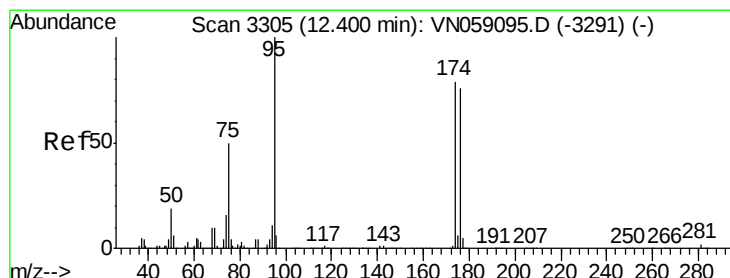
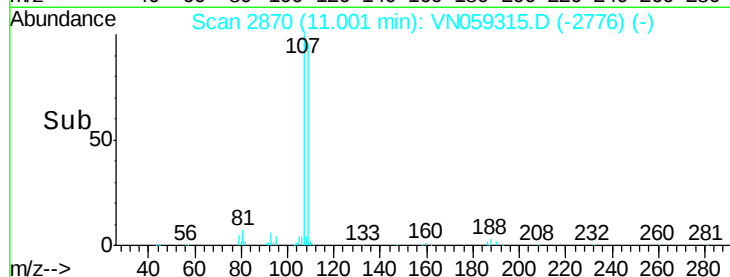
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 47.857 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

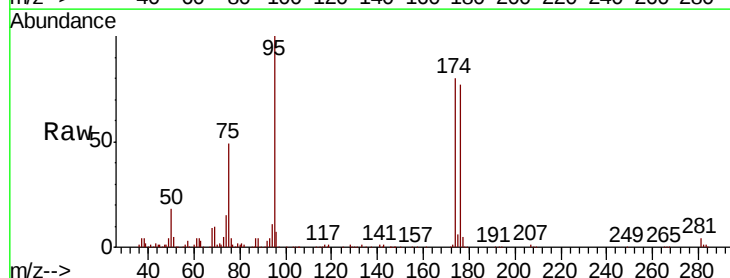
Tgt Ion: 95 Resp: 244594

Ion Ratio Lower Upper

95 100

174 78.1 0.0 158.2

176 77.1 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

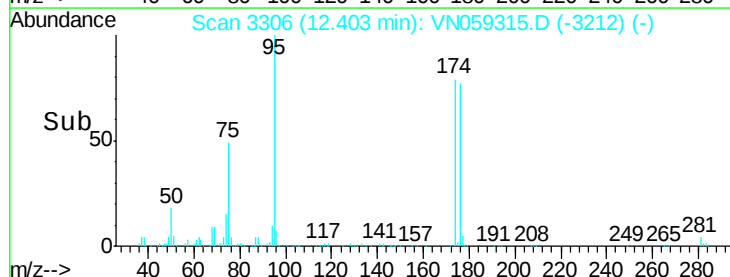
150000

100000

50000

0

Time--> 12.35 12.40 12.45





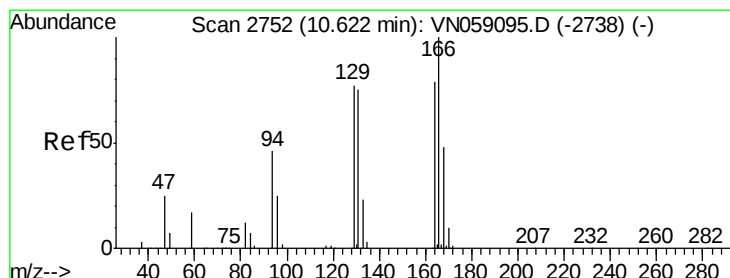
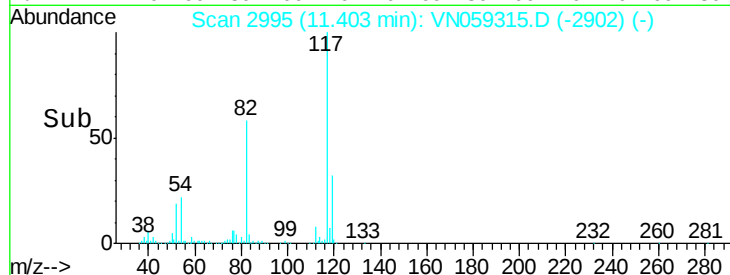
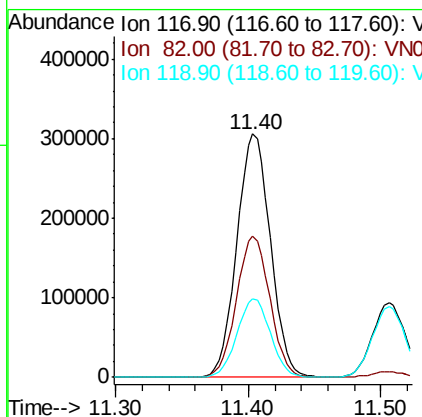
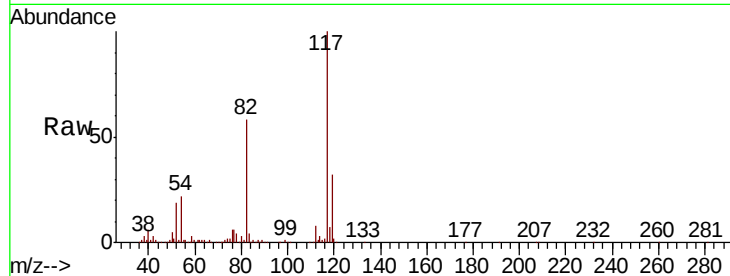
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.9	45.8	68.8
119	32.3	25.8	38.6

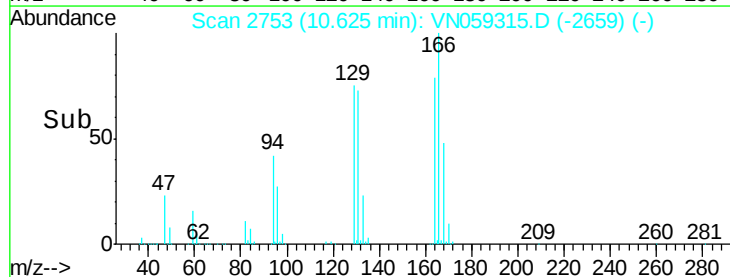
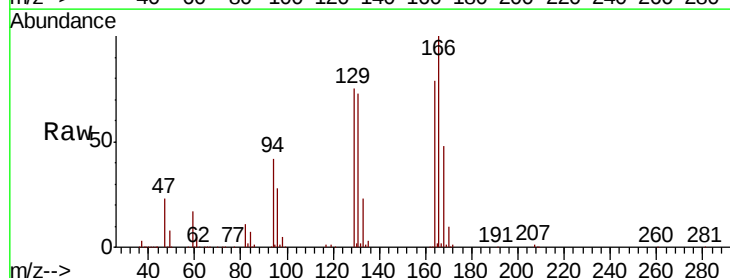
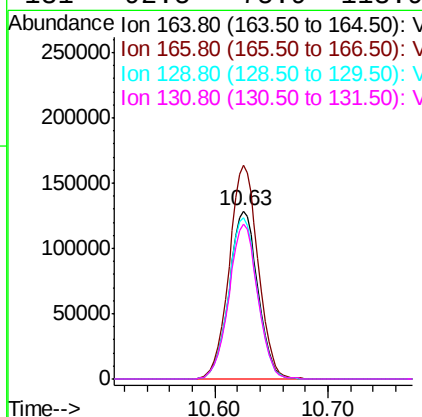
Manual Integrations
APPROVED

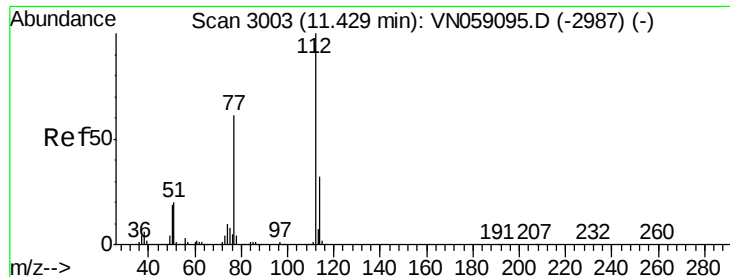
MMDadoda
11/20/2019 1:36:53 PM



#64
Tetrachloroethene
Concen: 61.965 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.1	101.5	152.3
129	95.9	78.3	117.5
131	92.5	75.9	113.9





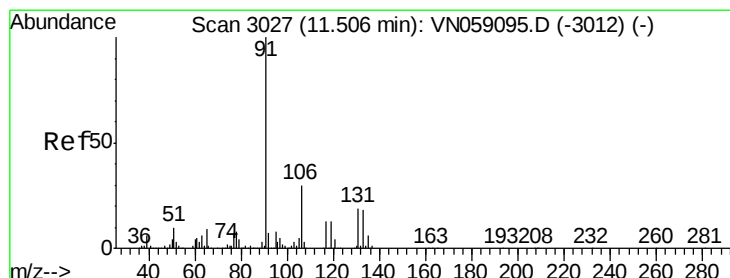
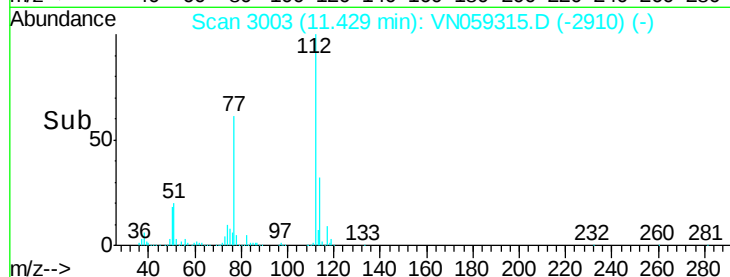
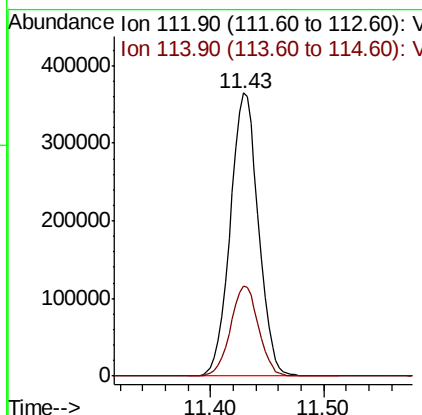
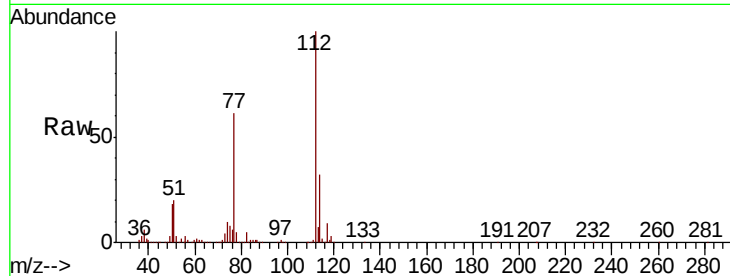
#65
Chlorobenzene
Concen: 60.008 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 629971
Ion Ratio Lower Upper
112 100
114 31.7 25.2 37.8

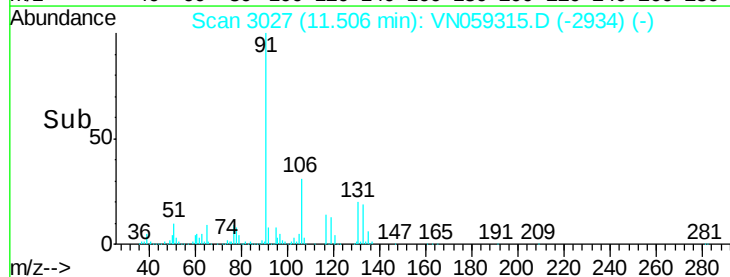
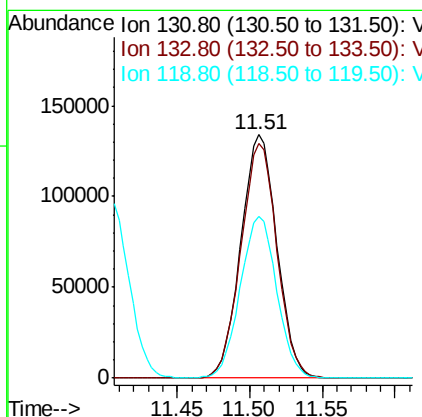
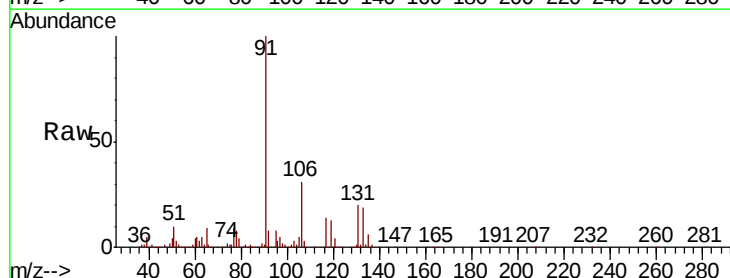
Manual Integrations
APPROVED

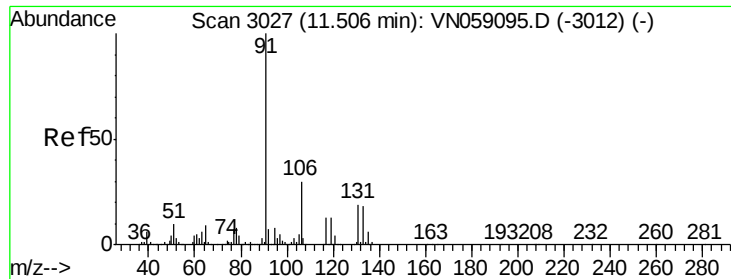
MMDadoda
11/20/2019 1:36:53 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 58.839 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion:131 Resp: 231713
Ion Ratio Lower Upper
131 100
133 96.3 47.4 142.3
119 67.4 33.2 99.6





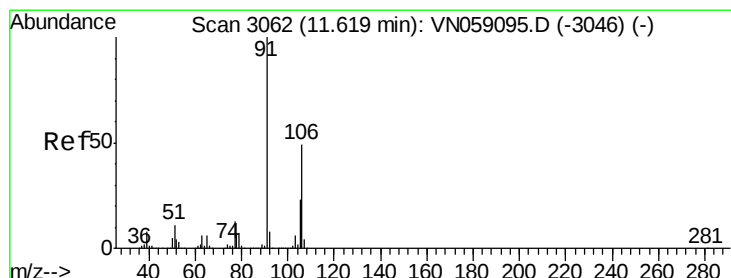
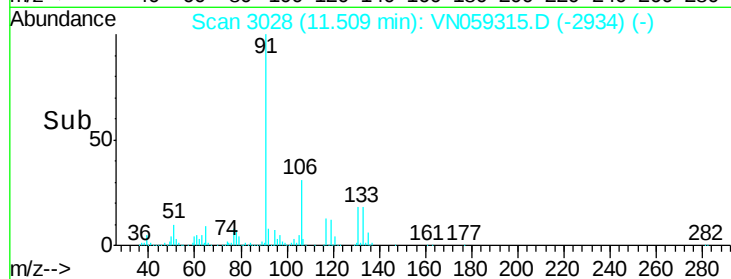
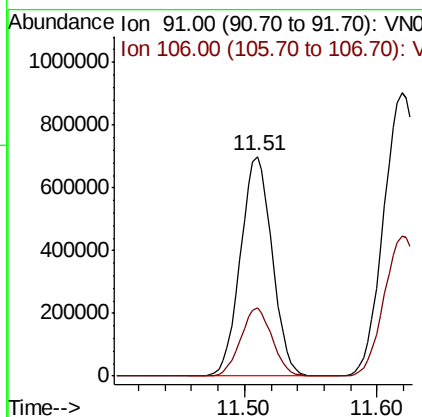
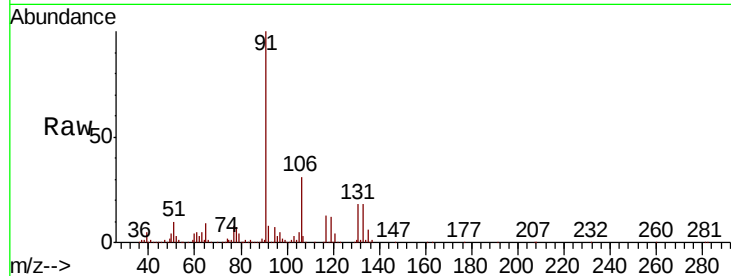
#67
Ethyl Benzene
Concen: 62.357 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1161451
Ion Ratio Lower Upper
91 100
106 31.0 24.1 36.1

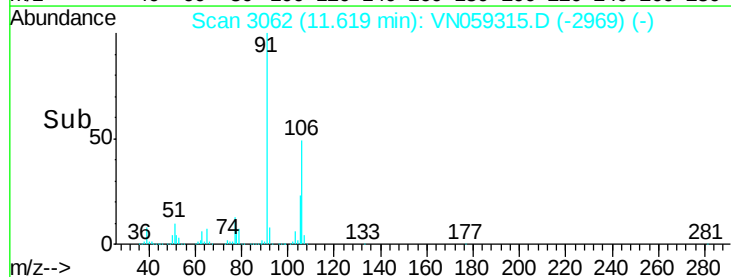
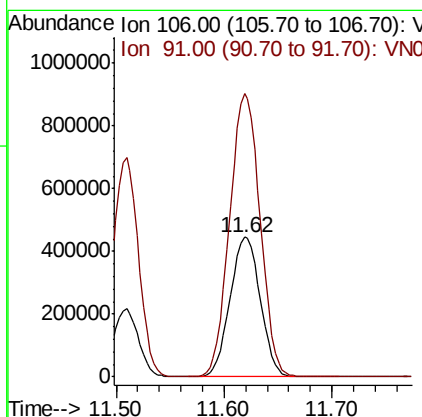
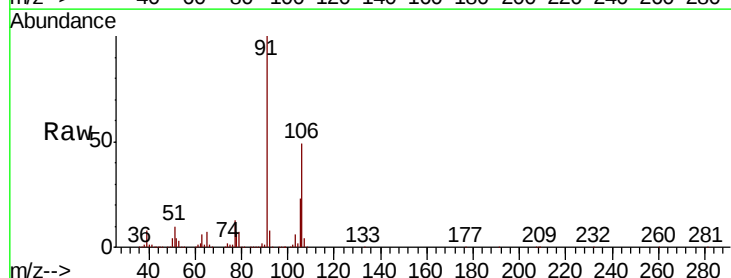
Manual Integrations
APPROVED

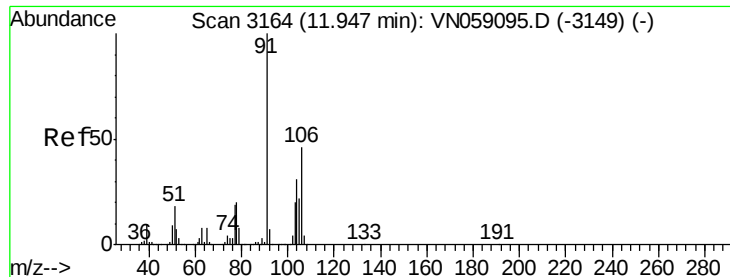
MMDadoda
11/20/2019 1:36:53 PM



#68
m/p-Xylenes
Concen: 124.808 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion: 106 Resp: 870796
Ion Ratio Lower Upper
106 100
91 203.9 164.7 247.1





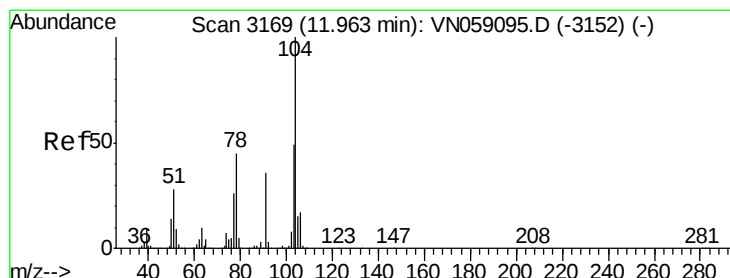
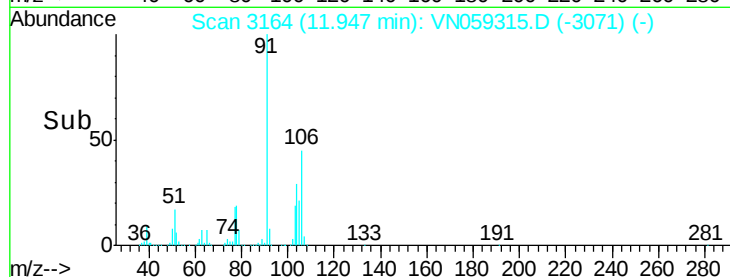
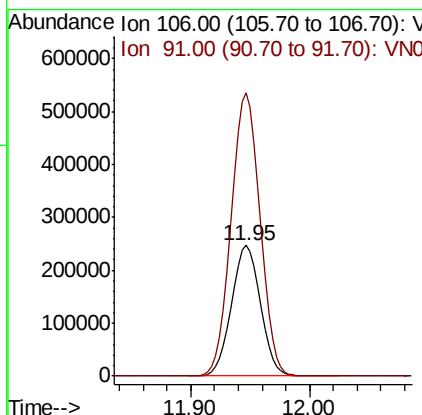
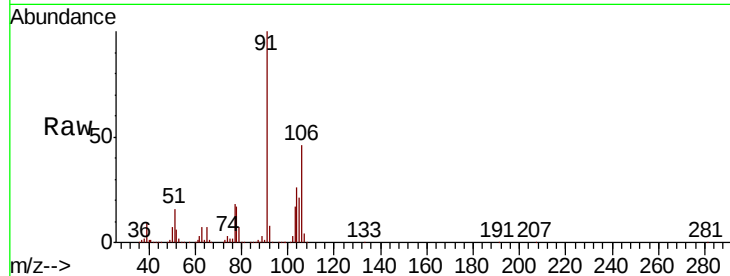
#69
o-Xylene
Concen: 61.862 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	216.3	110.1	330.3	

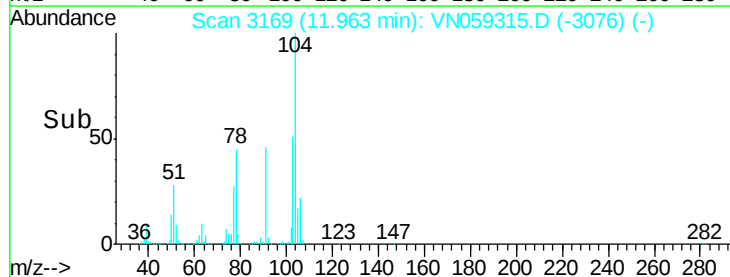
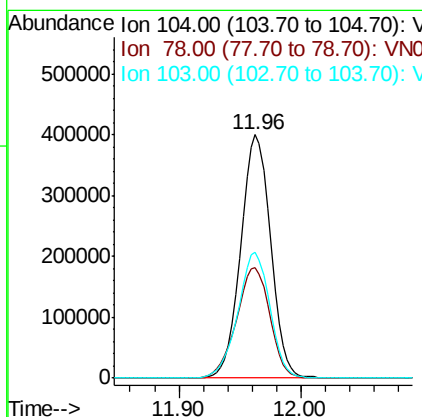
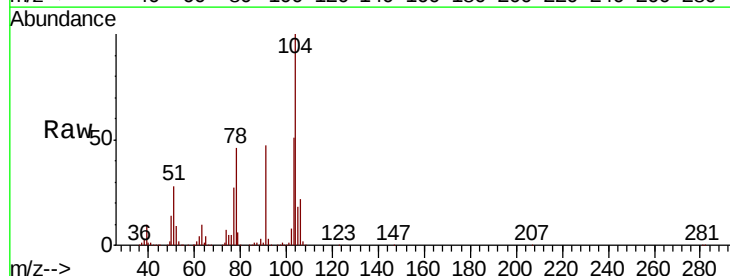
Manual Integrations
APPROVED

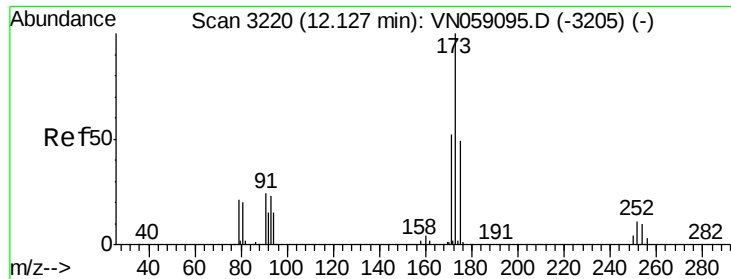
MMDadoda
11/20/2019 1:36:53 PM



#70
Styrene
Concen: 63.562 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	51.2	41.2	61.8	
103	55.6	43.8	65.6	





#71

Bromoform

Concen: 60.192 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

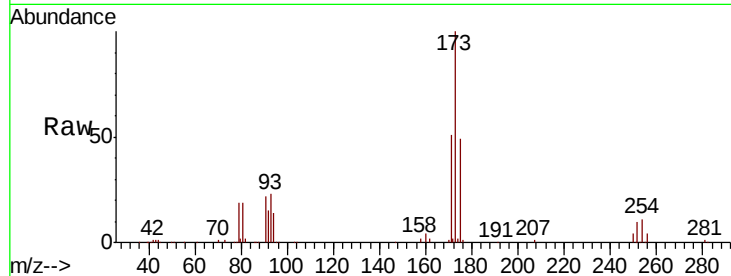
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.2	72.6
254	0.1	0.1	0.1#

Manual Integrations
APPROVED

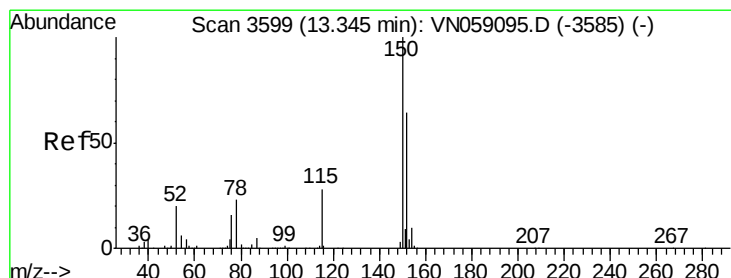
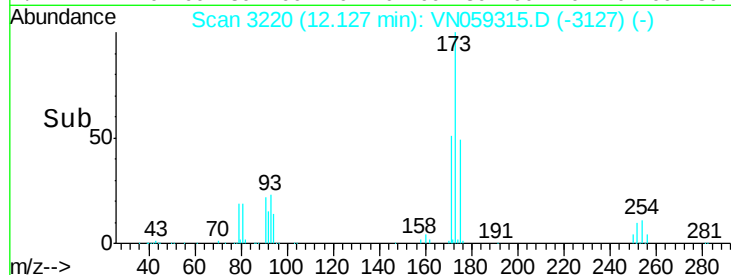
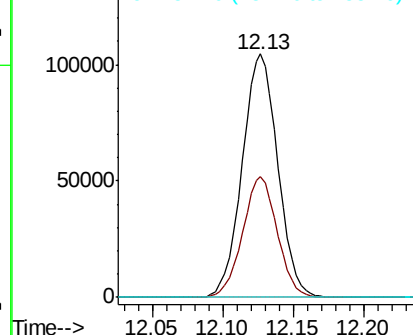
MMDadoda
11/20/2019 1:36:53 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

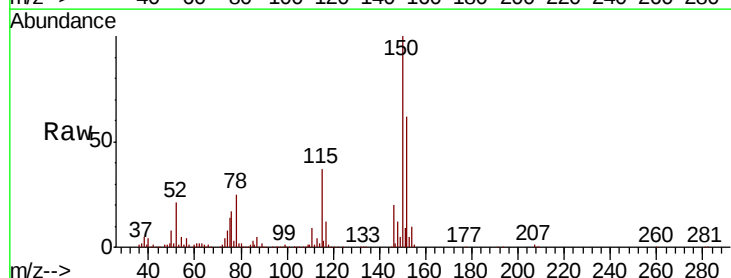
RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

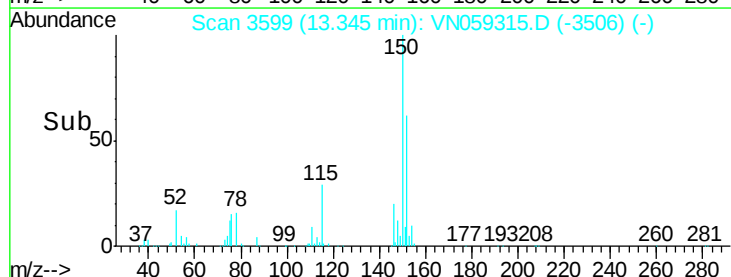
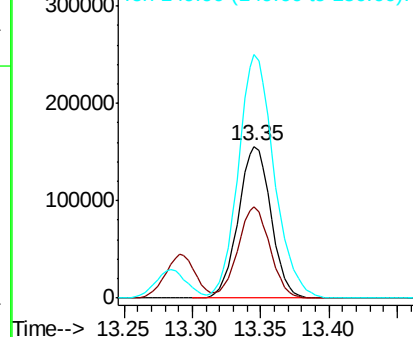
Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.4	88.2
150	175.8	0.0	345.8

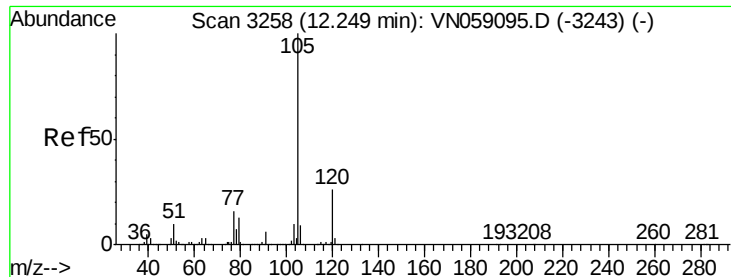


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 59.220 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1113302

Ion Ratio Lower Upper

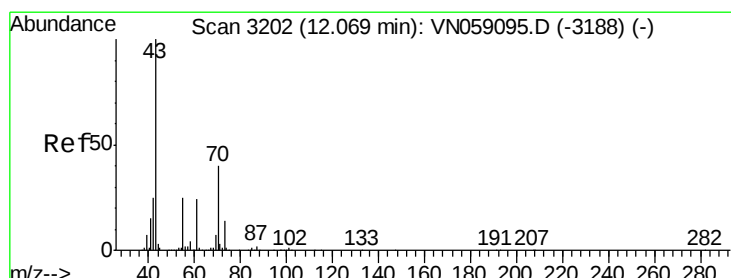
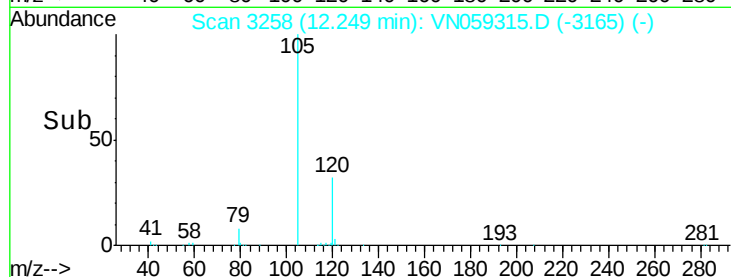
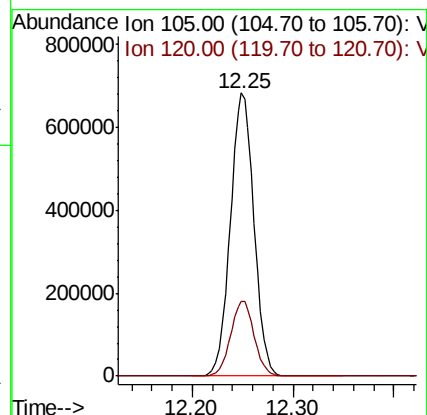
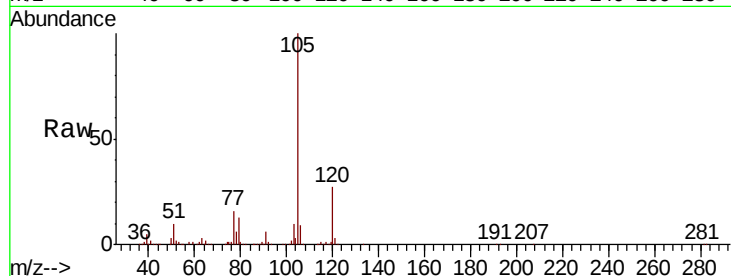
105 100

120 26.4 13.1 39.3

Manual Integrations
APPROVED

MMDadoda

11/20/2019 1:36:53 PM



#74

N-ethyl acetate

Concen: 58.887 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion: 43 Resp: 469095

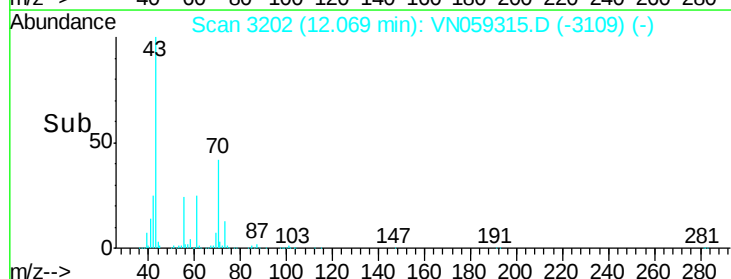
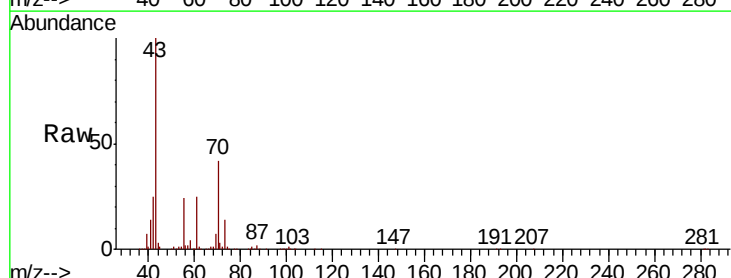
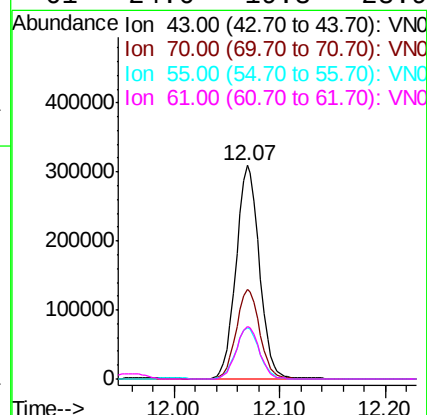
Ion Ratio Lower Upper

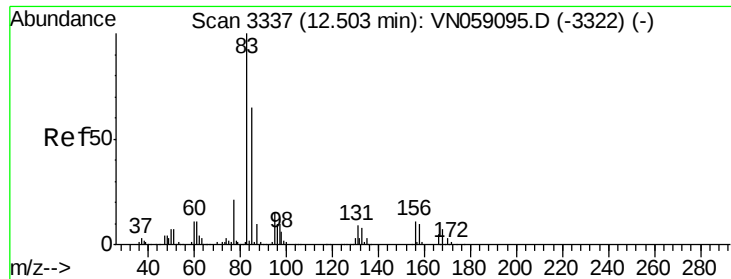
43 100

70 42.5 32.2 48.4

55 24.4 20.4 30.6

61 24.6 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 56.133 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 359368
Ion Ratio Lower Upper

83 100

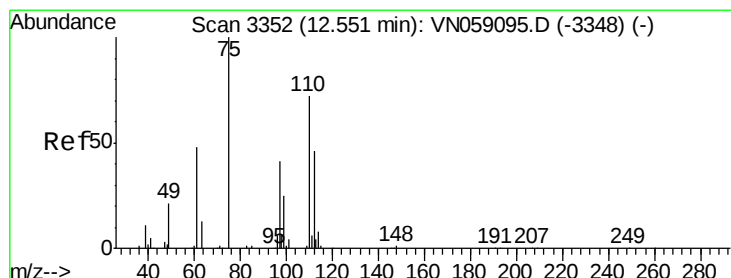
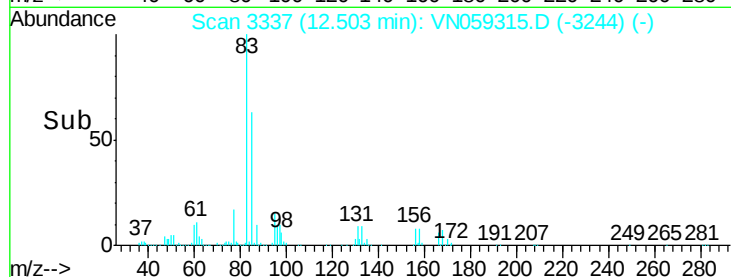
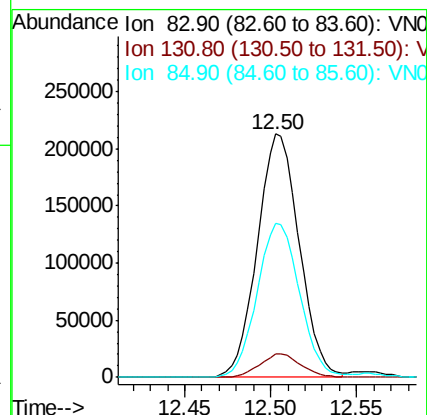
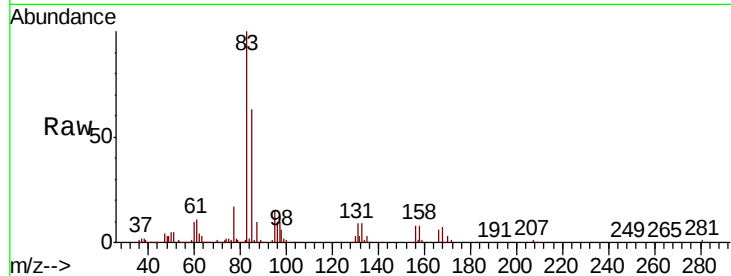
131 9.6 4.9 14.6

85 64.3 32.4 97.2

Manual Integrations
APPROVED

MMDadoda

11/20/2019 1:36:53 PM



#76

1,2,3-Trichloropropane

Concen: 59.467 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

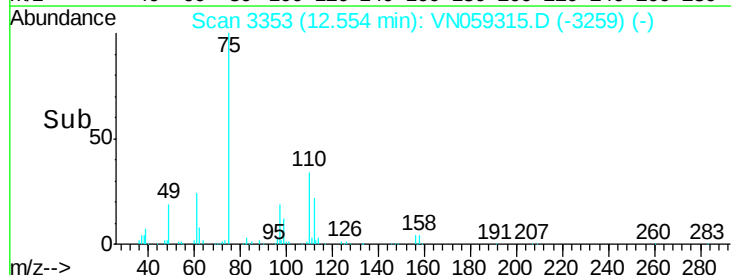
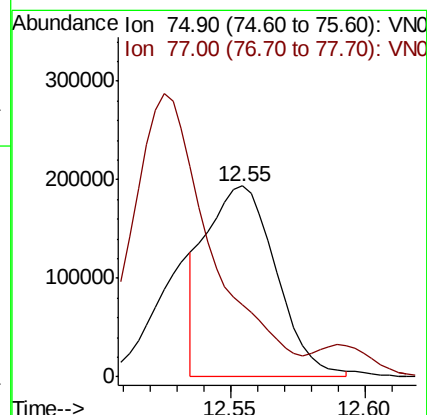
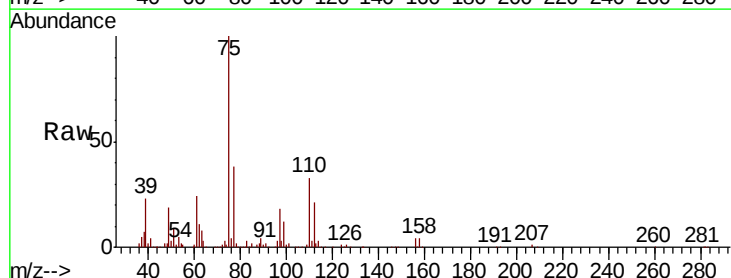
Lab File: VN059315.D

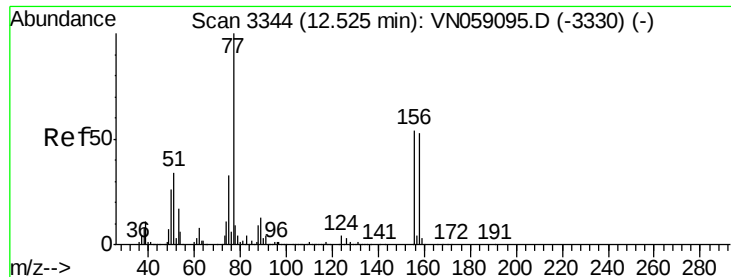
Acq: 19 Nov 2019 19:04

Tgt Ion: 75 Resp: 349900
Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 55.849 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

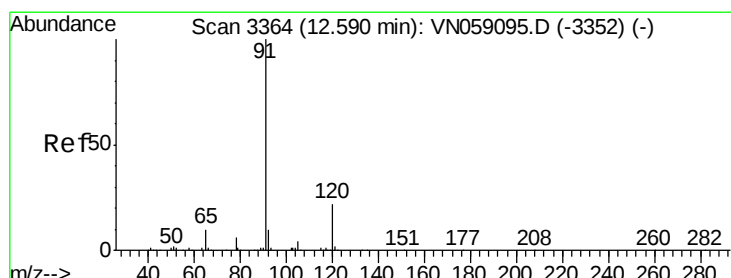
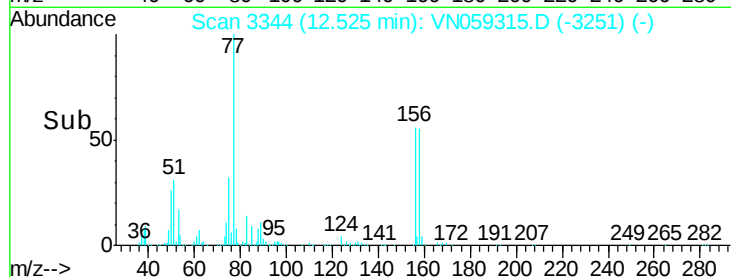
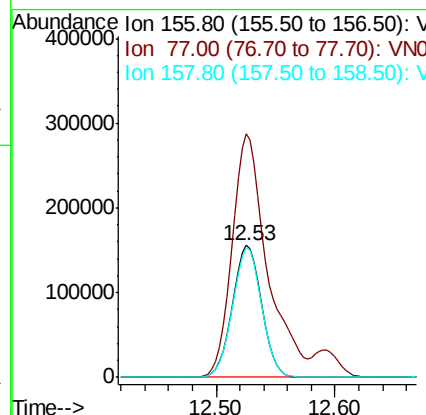
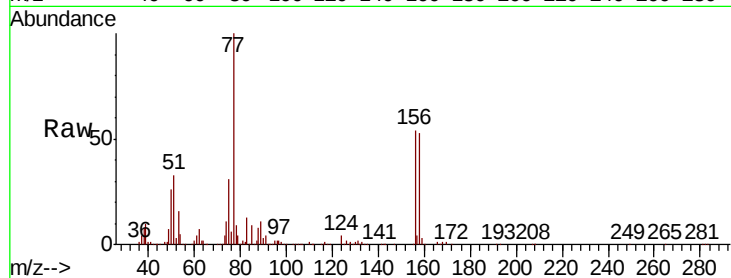
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	263787
Ion Ratio	Lower	Upper	
156	100		
77	223.0	112.8	338.3
158	97.9	48.4	145.3

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#78

n-propylbenzene

Concen: 60.502 ug/l

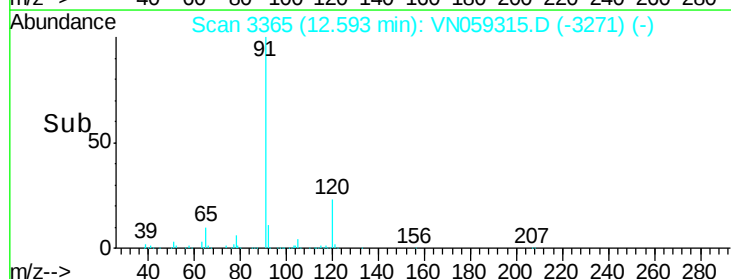
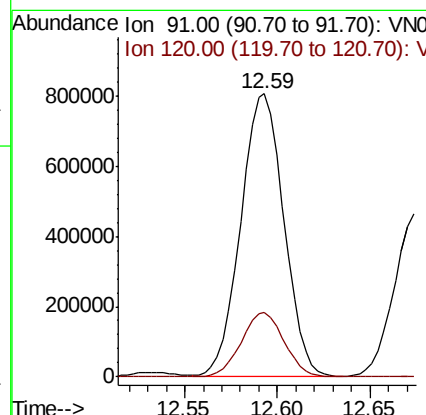
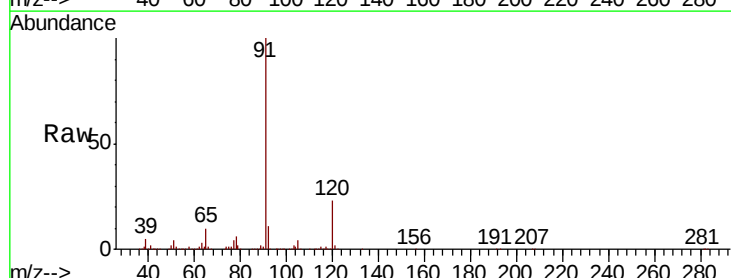
RT: 12.59 min Scan# 3365

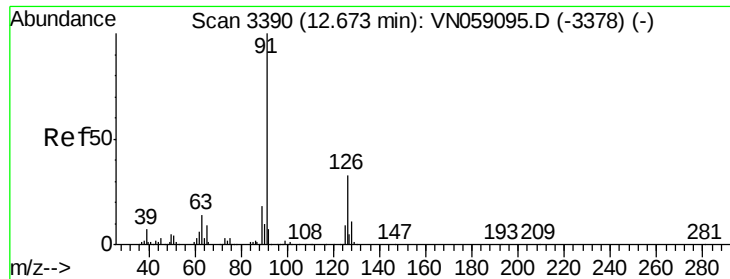
Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion:	91	Resp:	1302316
Ion Ratio	Lower	Upper	
91	100		
120	22.4	11.2	33.5





#79

2-Chlorotoluene

Concen: 57.589 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 768996

Ion Ratio Lower Upper

91 100

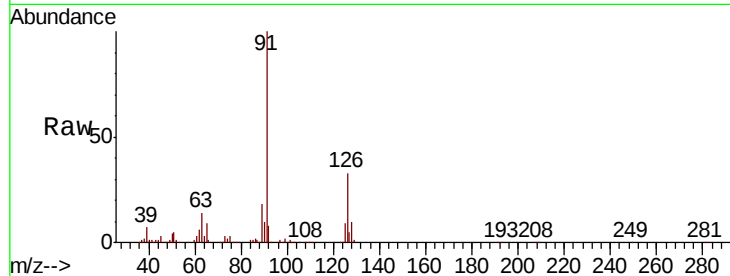
126 33.1 16.7 50.1

Manual Integrations

APPROVED

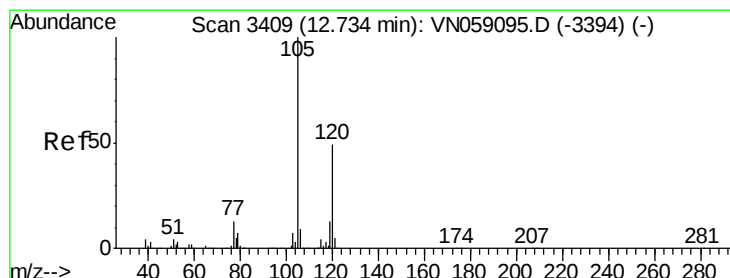
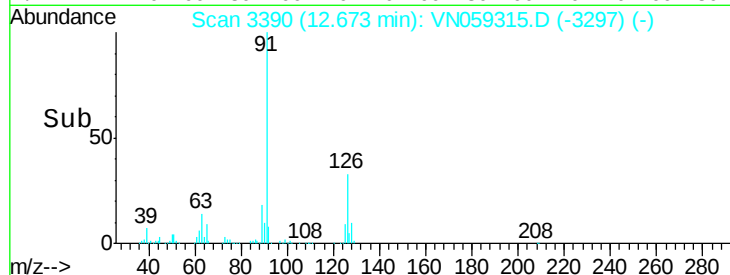
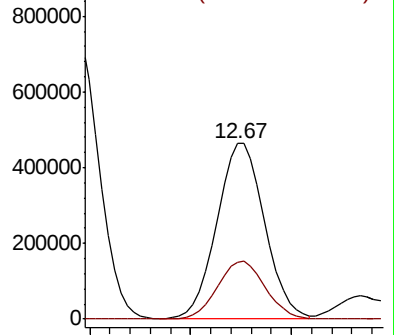
MMDadoda

11/20/2019 1:36:53 PM



Abundance Ion 91.00 (90.70 to 91.70): VN059315.D (-3297) (-)

Ion 125.90 (125.60 to 126.60): VN059315.D (-3297) (-)



#80

1,3,5-Trimethylbenzene

Concen: 59.058 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059315.D

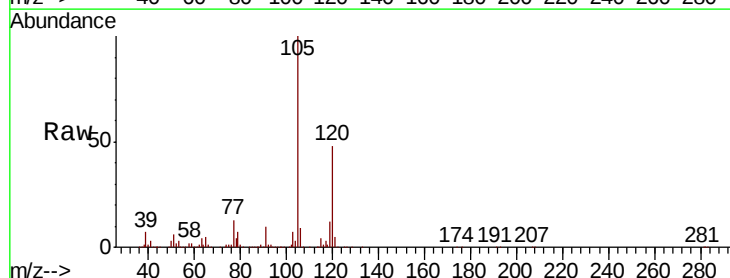
Acq: 19 Nov 2019 19:04

Tgt Ion: 105 Resp: 940778

Ion Ratio Lower Upper

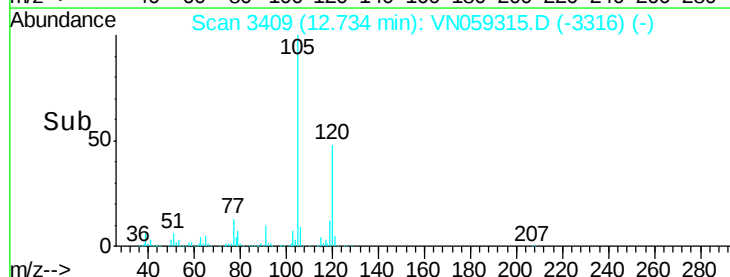
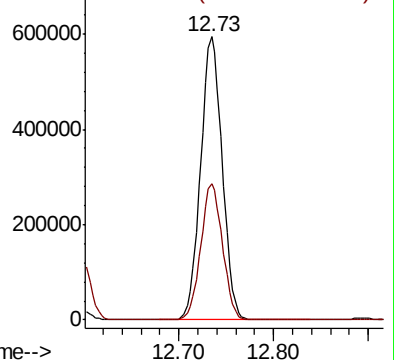
105 100

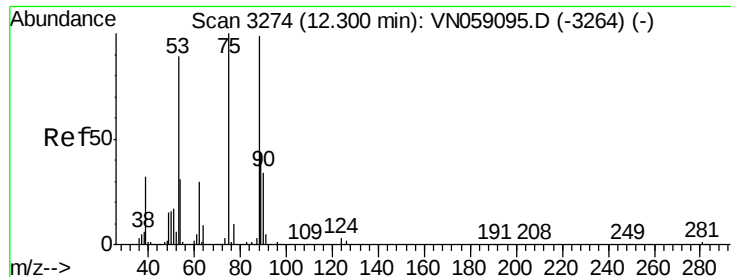
120 48.4 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059315.D (-3316) (-)

Ion 120.00 (119.70 to 120.70): VN059315.D (-3316) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 57.907 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

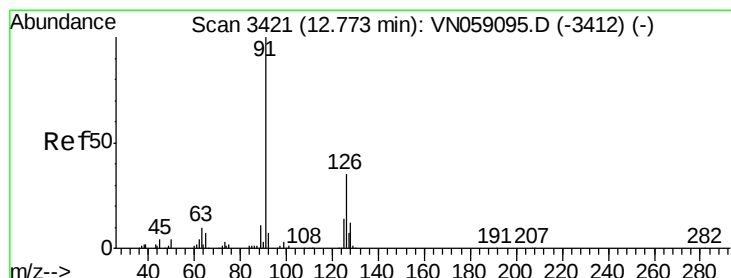
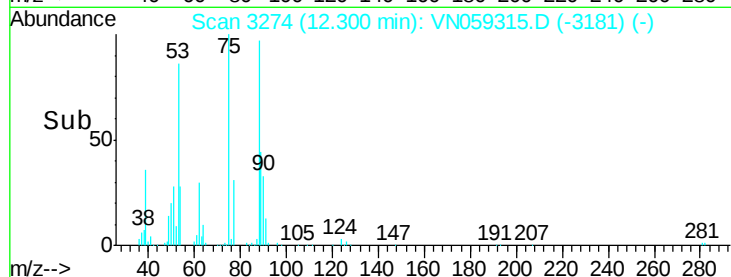
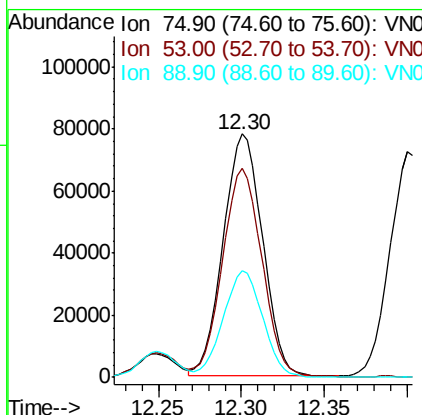
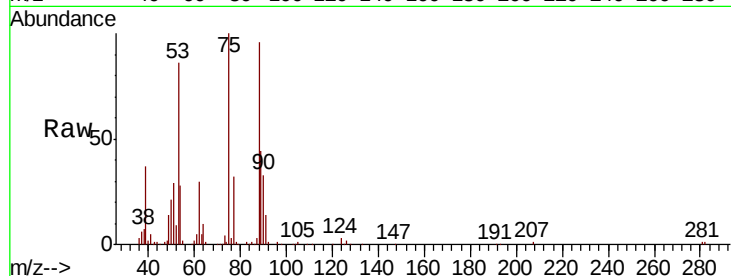
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	128997
Ion	Ratio	Lower	Upper
75	100		
53	86.7	72.2	108.2
89	44.1	35.8	53.8

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#82

4-Chlorotoluene

Concen: 58.621 ug/l

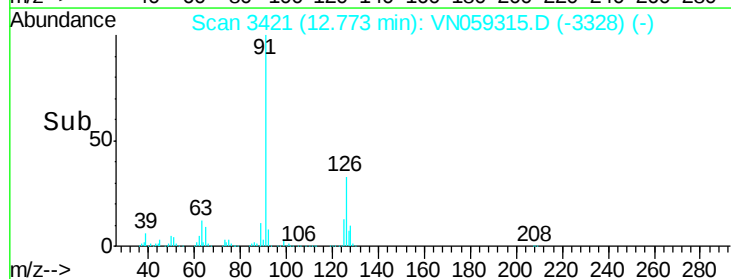
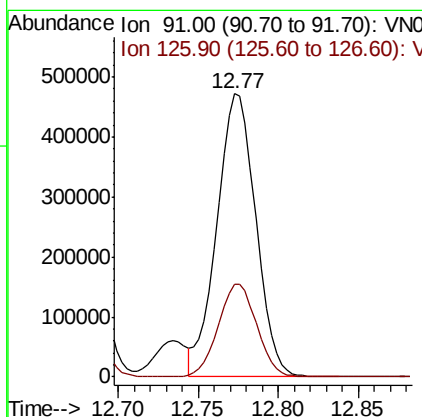
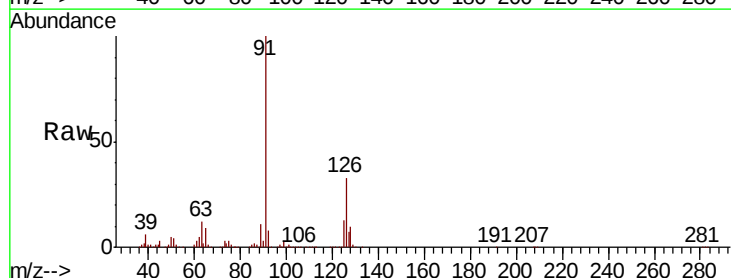
RT: 12.77 min Scan# 3421

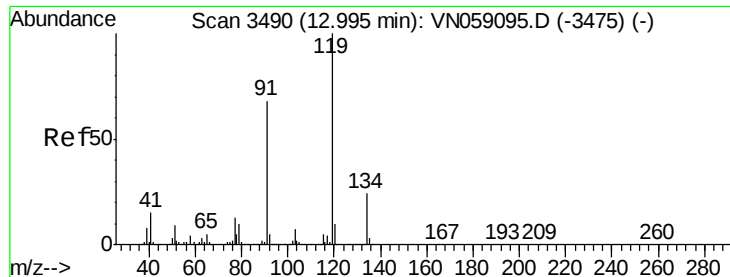
Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion:	91	Resp:	785113
Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.1	48.2





#83

tert-Butylbenzene

Concen: 58.299 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

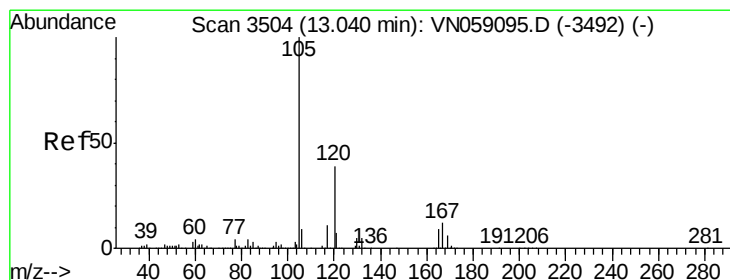
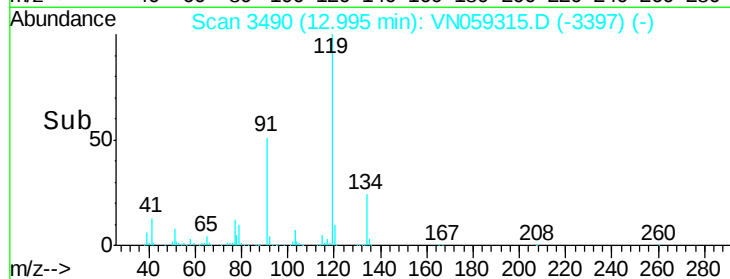
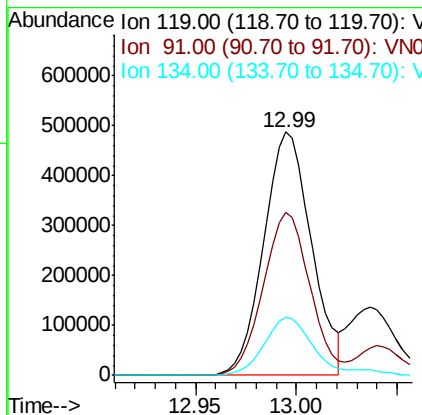
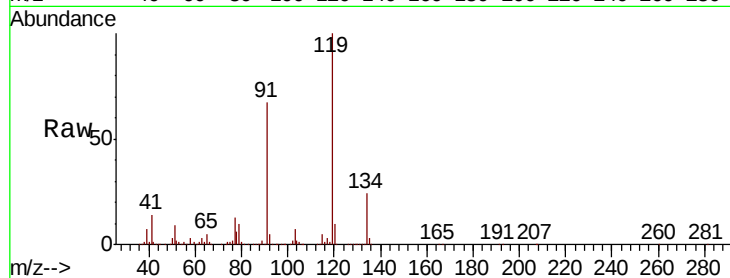
ClientSampleId :

VSTDCCC050EC

Tot Ion:	119	Resp:	801991
Ion Ratio	Lower	Upper	
119	100		
91	65.6	33.2	99.6
134	25.3	12.7	38.1

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#84

1,2,4-Trimethylbenzene

Concen: 60.991 ug/l

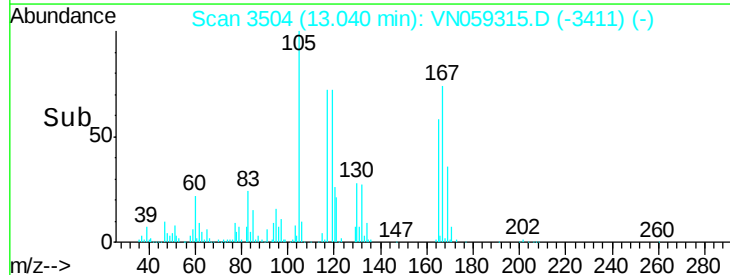
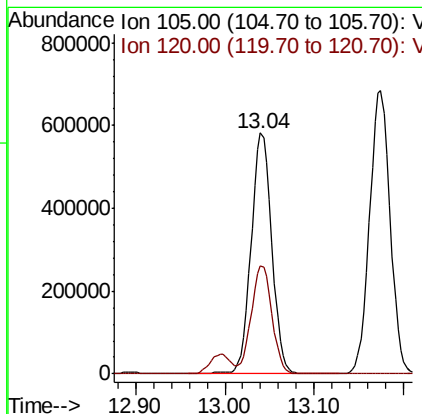
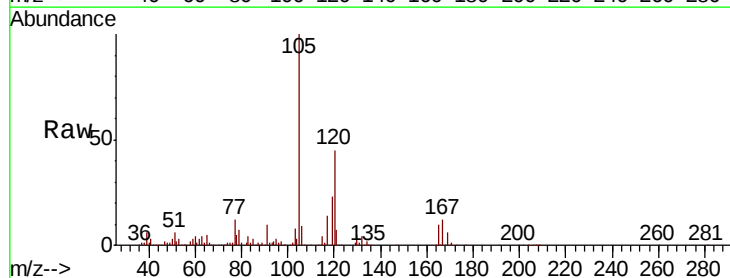
RT: 13.04 min Scan# 3504

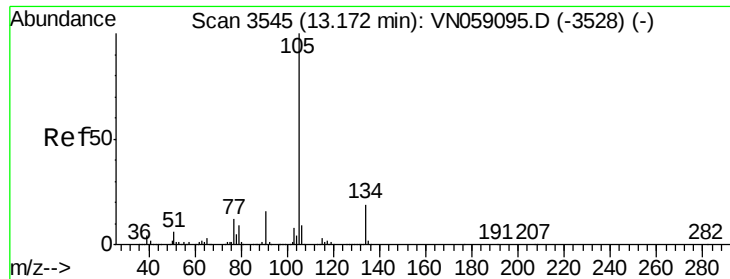
Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion:	105	Resp:	939991
Ion Ratio	Lower	Upper	
105	100		
120	44.9	22.8	68.4





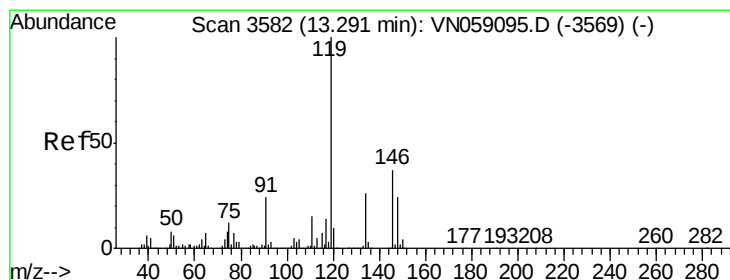
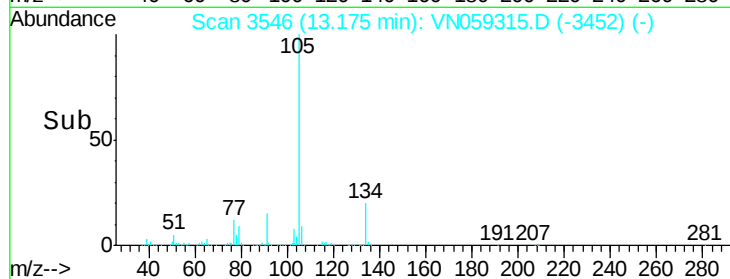
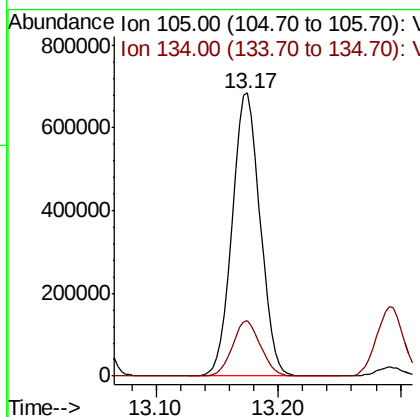
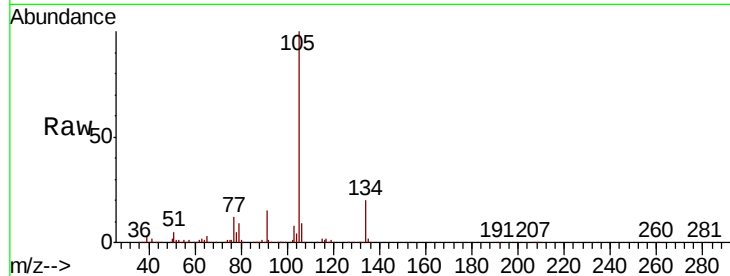
#85
 sec-Butylbenzene
 Concen: 60.834 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.7	29.1

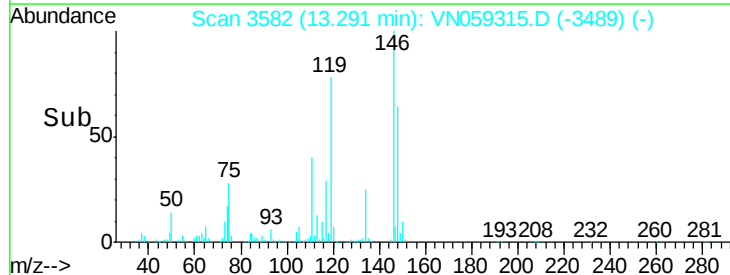
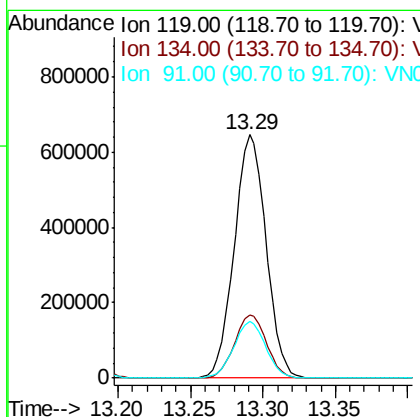
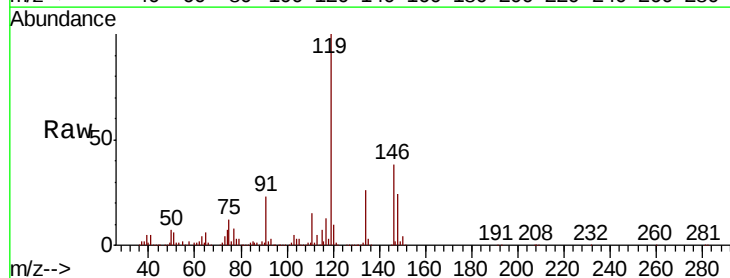
Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:36:53 PM



#86
 p-Isopropyltoluene
 Concen: 62.156 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.0	38.9
91	23.4	11.7	35.1





#87

1,3-Dichlorobenzene

Concen: 57.946 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059315.D

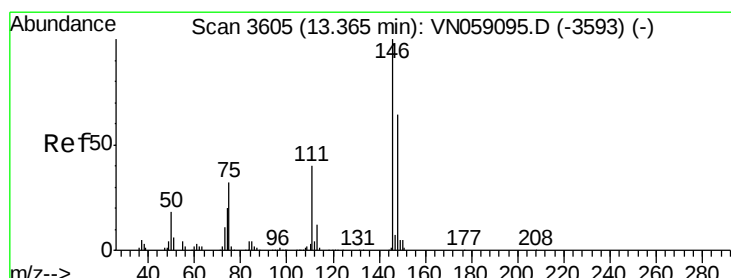
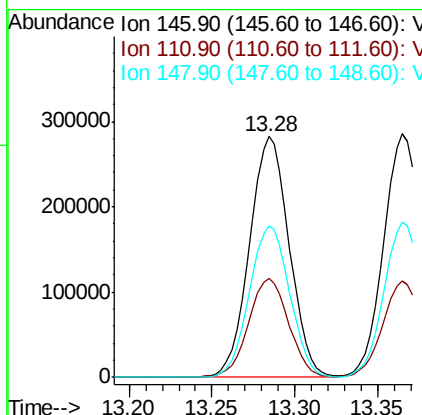
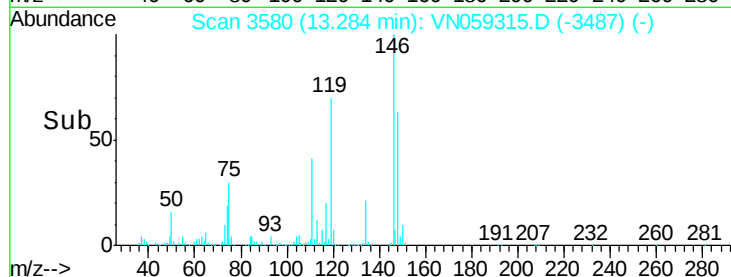
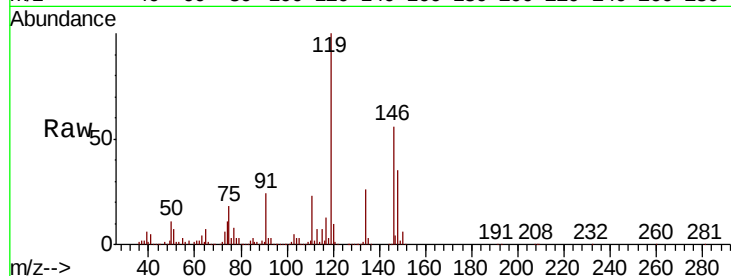
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.4	61.3
148	64.0	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#88

1,4-Dichlorobenzene

Concen: 57.424 ug/l

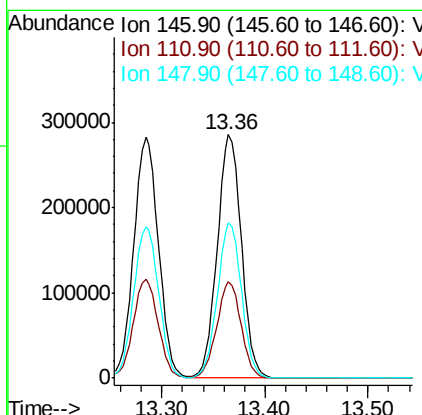
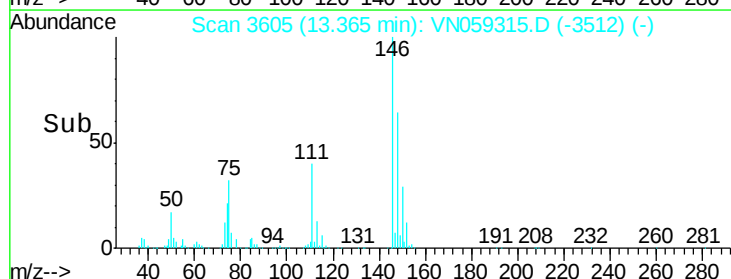
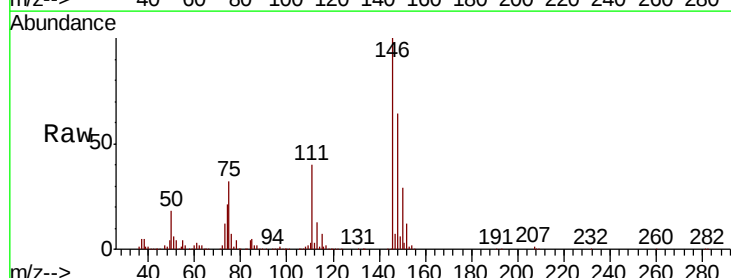
RT: 13.36 min Scan# 3605

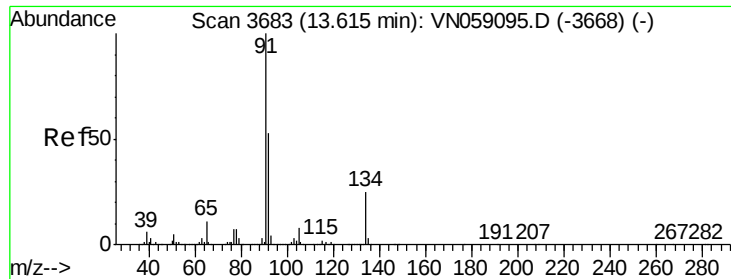
Delta R.T. -0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.3	60.9
148	63.3	31.9	95.7





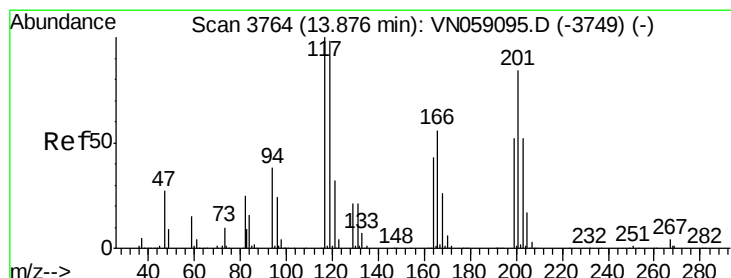
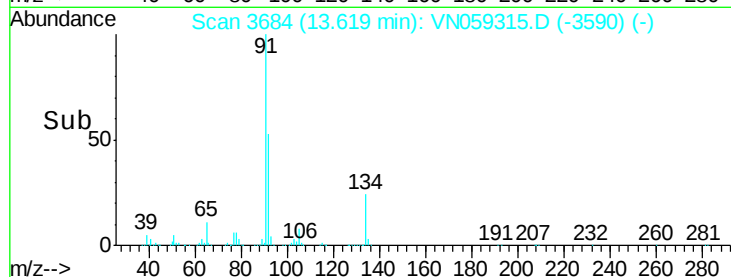
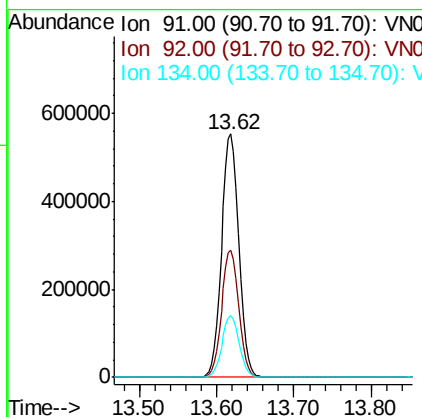
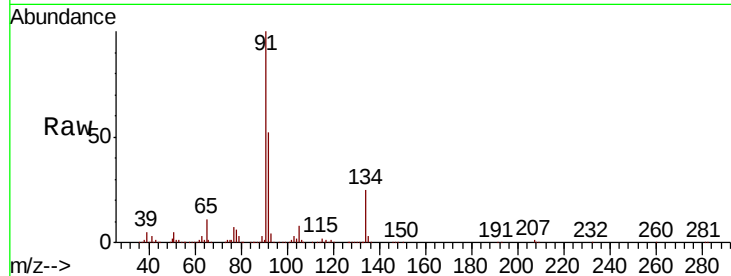
#89
n-Butylbenzene
Concen: 62.470 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
91	91	100		
92	92	51.9	26.1	78.3
134	134	25.3	12.6	37.8

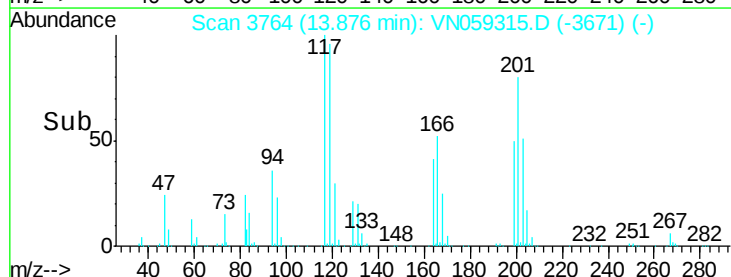
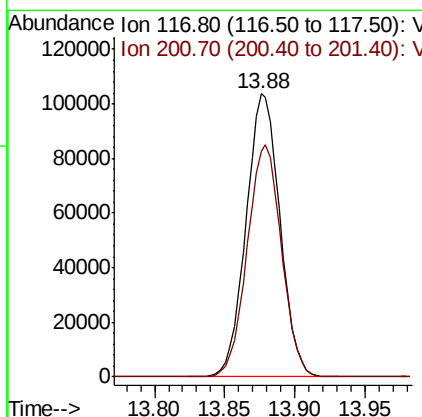
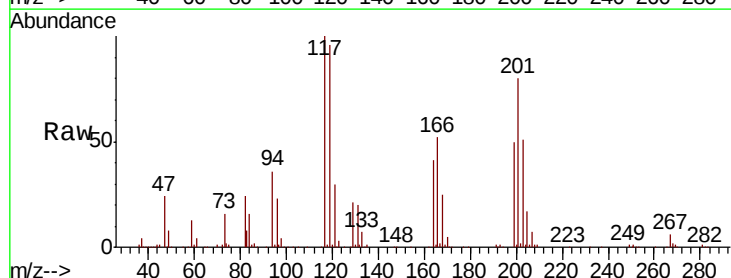
Manual Integrations
APPROVED

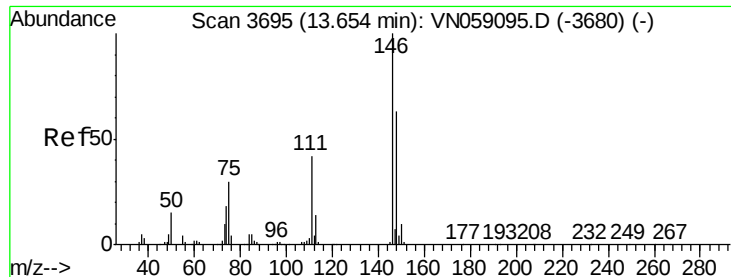
MMDadoda
11/20/2019 1:36:53 PM



#90
Hexachloroethane
Concen: 55.080 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ion	Ratio	Lower	Upper
117	117	100		
201	201	82.9	41.8	125.3





#91

1,2-Dichlorobenzene

Concen: 57.448 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Instrument :

MSVOA_N

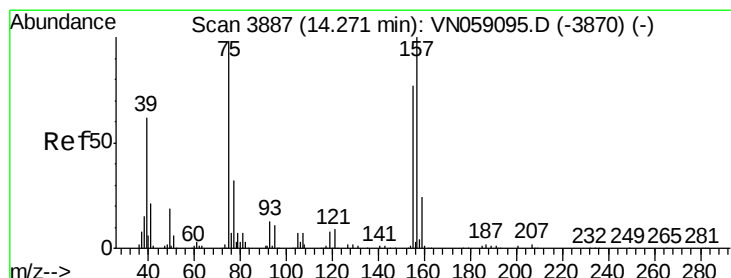
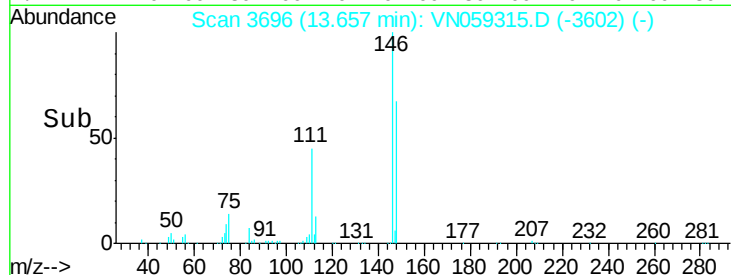
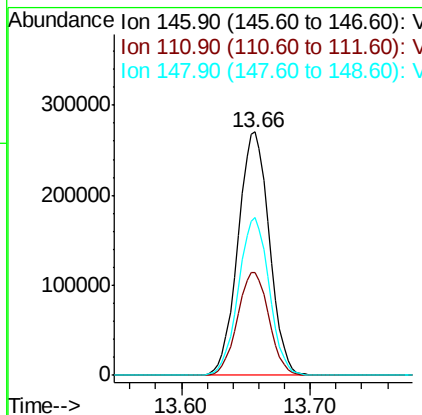
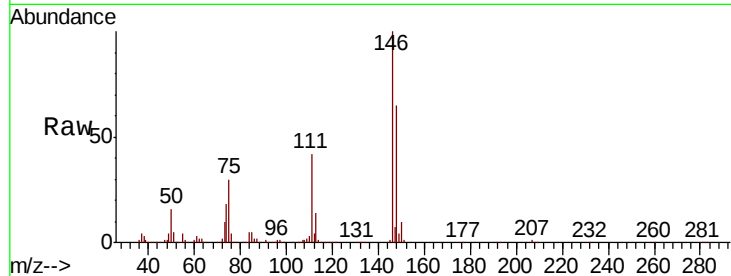
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	457069
Ion Ratio	Lower	Upper	
146	100		
111	42.5	21.2	63.6
148	63.7	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 54.711 ug/l

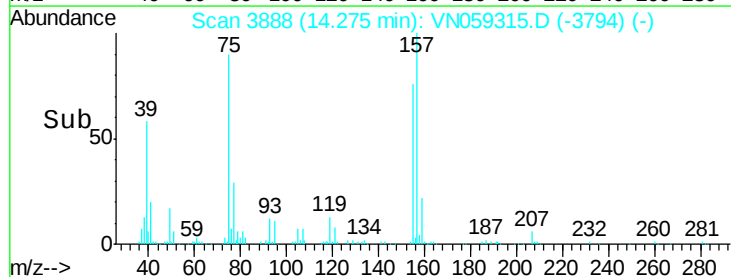
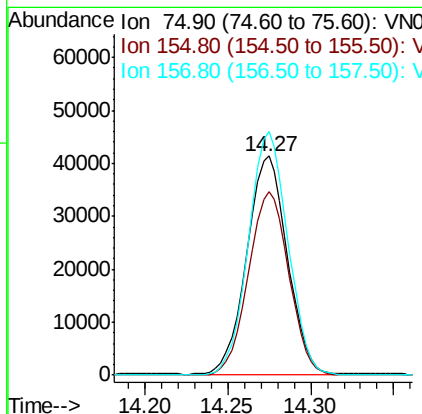
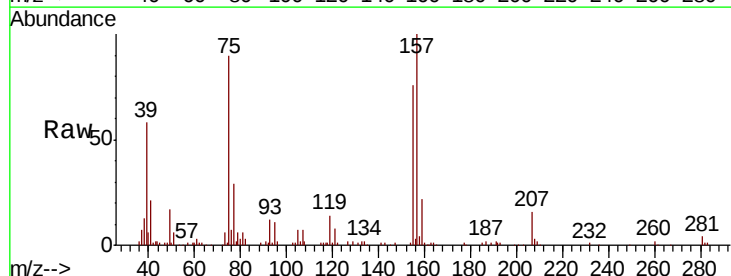
RT: 14.27 min Scan# 3888

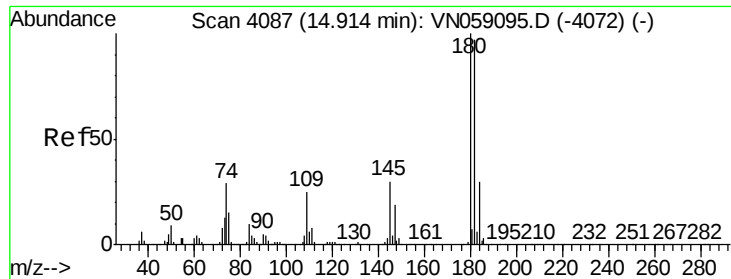
Delta R.T. 0.00 min

Lab File: VN059315.D

Acq: 19 Nov 2019 19:04

Tgt Ion:	75	Resp:	69884
Ion Ratio	Lower	Upper	
75	100		
155	83.8	40.2	120.6
157	108.7	51.8	155.5





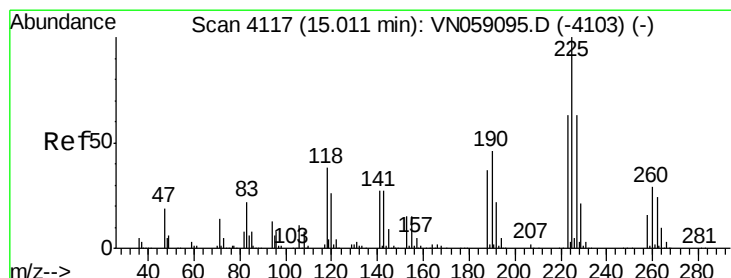
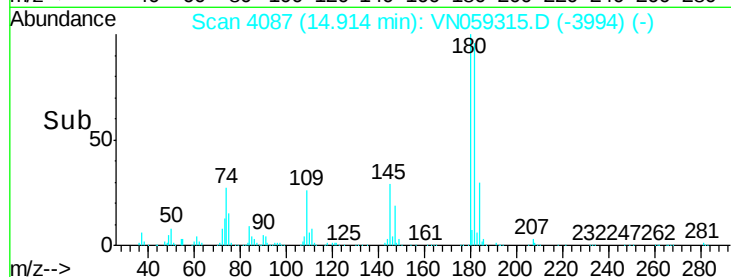
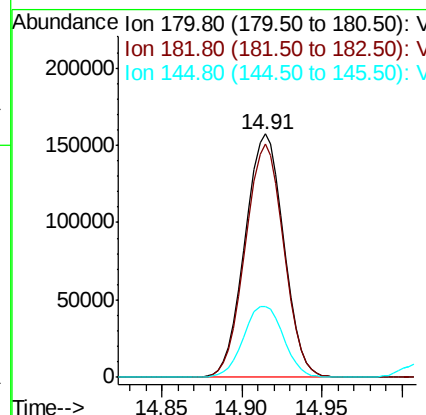
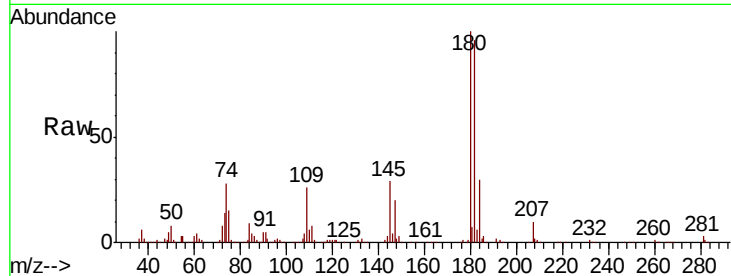
#93
 1,2,4-Trichlorobenzene
 Concen: 53.544 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	259575		
182	95.3	48.1	144.3	
145	30.3	15.1	45.3	

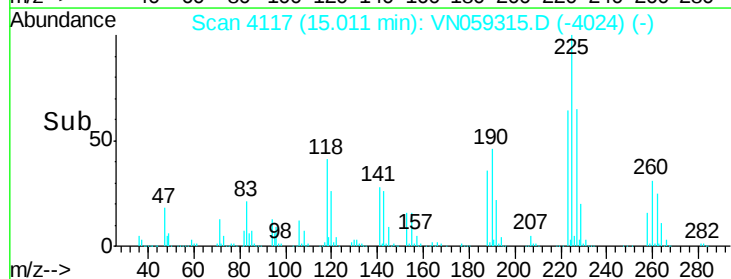
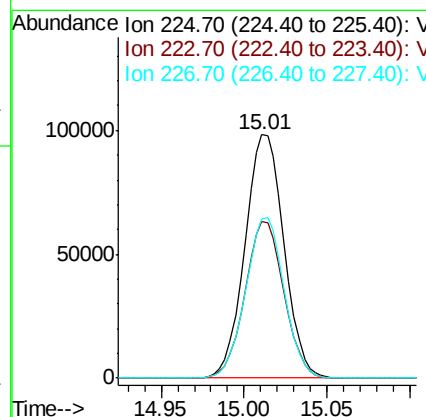
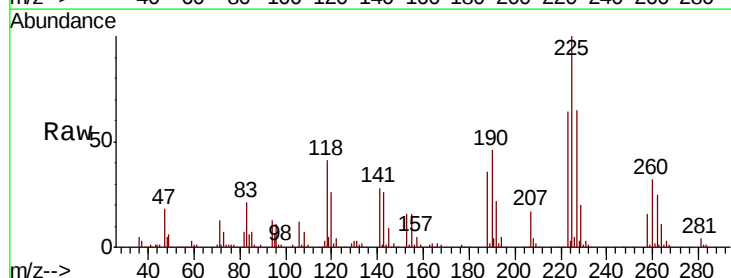
Manual Integrations
 APPROVED

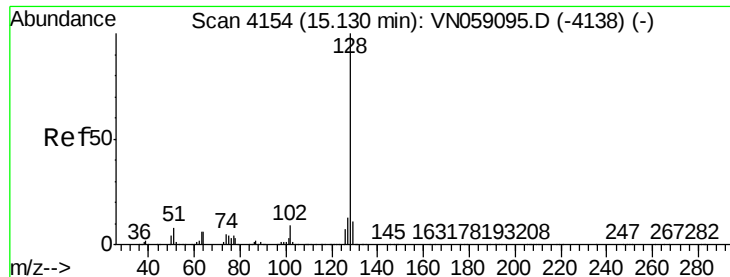
MMDadoda
 11/20/2019 1:36:53 PM



#94
 Hexachlorobutadiene
 Concen: 58.411 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN059315.D
 Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	160240		
223	64.2	31.3	93.9	
227	65.1	31.5	94.5	





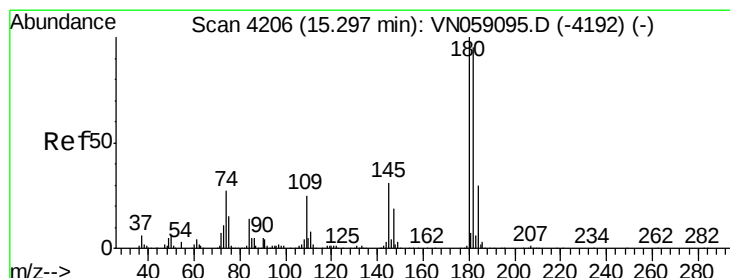
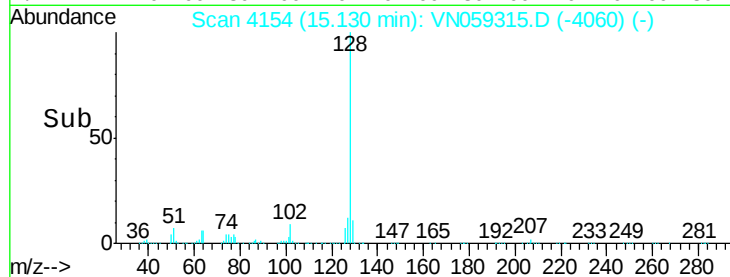
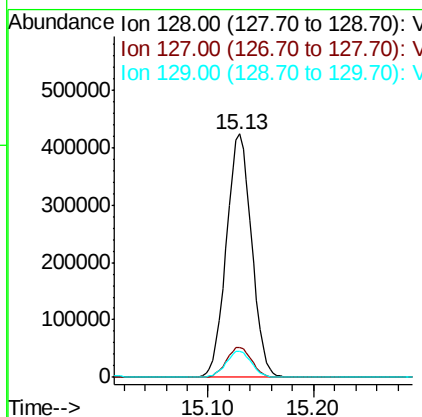
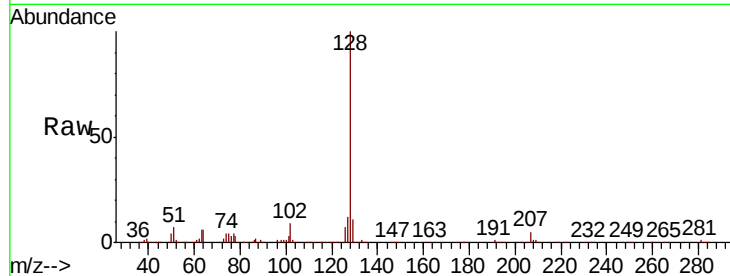
#95
Naphthalene
Concen: 52.241 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:36:53 PM



#96
1,2,3-Trichlorobenzene
Concen: 56.712 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. -0.00 min
Lab File: VN059315.D
Acq: 19 Nov 2019 19:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	141.8
145	31.8	15.8	47.3

