

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091719\
 Data File : VN058150.D
 Acq On : 17 Sep 2019 15:28
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 9/18/2019 4:41:53 PM

Quant Time: Sep 18 08:28:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	313806	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	502708	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	483793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	303888	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	335238	52.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.48%	
35) Dibromofluoromethane	7.57	113	243664	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
50) Toluene-d8	10.09	98	962043	53.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.80%	
62) 4-Bromofluorobenzene	12.40	95	372095	54.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	221745	51.096	ug/l	100
3) Chloromethane	2.04	50	177107	40.041	ug/l	99
4) Vinyl Chloride	2.17	62	193140	41.257	ug/l	98
5) Bromomethane	2.54	94	100126	38.574	ug/l	98
6) Chloroethane	2.68	64	126099	42.272	ug/l	97
7) Trichlorofluoromethane	3.00	101	277415	47.089	ug/l	99
8) Diethyl Ether	3.39	74	130597	53.150	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	202716	54.547	ug/l	99
10) Methyl Iodide	3.93	142	155451	37.588	ug/l	99
11) Tert butyl alcohol	4.75	59	199510	259.351	ug/l	100
12) 1,1-Dichloroethene	3.72	96	165079	49.403	ug/l	94
13) Acrolein	3.58	56	84173	128.973	ug/l	99
14) Allyl chloride	4.30	41	303440	46.403	ug/l	90
15) Acrylonitrile	4.96	53	596844	282.276	ug/l	100
16) Acetone	3.79	43	532581	255.609	ug/l	98
17) Carbon Disulfide	4.03	76	221322	42.580	ug/l	99
18) Methyl Acetate	4.30	43	324197	58.357	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	805432	57.920	ug/l	98
20) Methylene Chloride	4.53	84	230868	58.411	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	180789	50.050	ug/l	99
22) Diisopropyl ether	5.92	45	884163	57.656	ug/l	97
23) Vinyl Acetate	5.87	43	3248868	298.936	ug/l	100
24) 1,1-Dichloroethane	5.82	63	463049	55.249	ug/l	100
25) 2-Butanone	6.81	43	826713	274.139	ug/l	99
26) 2,2-Dichloropropane	6.81	77	375982	56.687	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	267581	55.277	ug/l	99
28) Bromochloromethane	7.17	49	230278	54.997	ug/l	96
29) Tetrahydrofuran	7.19	42	514433	276.834	ug/l	98
30) Chloroform	7.36	83	491900	56.132	ug/l	98
31) Cyclohexane	7.64	56	303690	53.321	ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	390138	56.134	ug/l	100
36) 1,1-Dichloropropene	7.78	75	300203	51.492	ug/l	99
37) Ethyl Acetate	6.91	43	335904	55.765	ug/l	98
38) Carbon Tetrachloride	7.76	117	303626	57.042	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091719\
 Data File : VN058150.D
 Acq On : 17 Sep 2019 15:28
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 9/18/2019 4:41:53 PM

Quant Time: Sep 18 08:28:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	315470	51.474	ug/l	98
40) Benzene	8.03	78	951860	54.230	ug/l	99
41) Methacrylonitrile	7.16	41	157774m	57.702	ug/l	
42) 1,2-Dichloroethane	8.11	62	400455	57.046	ug/l	100
43) Isopropyl Acetate	8.15	43	637016	62.886	ug/l #	89
44) Trichloroethene	8.82	130	236137	54.851	ug/l	96
45) 1,2-Dichloropropane	9.11	63	295916	57.938	ug/l	99
46) Dibromomethane	9.20	93	175446	56.846	ug/l	97
47) Bromodichloromethane	9.39	83	378234	61.371	ug/l	98
48) Methyl methacrylate	9.19	41	294761	57.364	ug/l	99
49) 1,4-Dioxane	9.19	88	87544	1007.464	ug/l	95
51) 4-Methyl-2-Pentanone	9.98	43	1848175	308.316	ug/l	100
52) Toluene	10.15	92	613370	55.483	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	406254	62.596	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	437723	61.088	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	279495	59.685	ug/l	98
56) Ethyl methacrylate	10.43	69	427403	60.609	ug/l	99
57) 1,3-Dichloropropane	10.71	76	472536	58.553	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	882922	265.831	ug/l	100
59) 2-Hexanone	10.75	43	1340260	298.296	ug/l	100
60) Dibromochloromethane	10.90	129	277987	63.928	ug/l	99
61) 1,2-Dibromoethane	11.00	107	261287	59.019	ug/l	100
64) Tetrachloroethene	10.63	164	193065	54.048	ug/l	100
65) Chlorobenzene	11.43	112	719933	56.861	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	268799	61.183	ug/l	99
67) Ethyl Benzene	11.51	91	1295633	58.390	ug/l	100
68) m/p-Xylenes	11.62	106	945200	116.290	ug/l	99
69) o-Xylene	11.95	106	475855	58.890	ug/l	100
70) Styrene	11.97	104	850042	61.127	ug/l	100
71) Bromoform	12.13	173	178804	65.278	ug/l #	99
73) Isopropylbenzene	12.25	105	1335585	56.639	ug/l	100
74) N-amyl acetate	12.07	43	582113	56.723	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	433802	54.638	ug/l	98
76) 1,2,3-Trichloropropane	12.56	75	386980m	56.292	ug/l	
77) Bromobenzene	12.53	156	314571	53.506	ug/l	98
78) n-propylbenzene	12.60	91	1580419	58.366	ug/l	100
79) 2-Chlorotoluene	12.68	91	935499	54.662	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	1154206	57.930	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	113495	58.098	ug/l	98
82) 4-Chlorotoluene	12.78	91	988214	56.229	ug/l	100
83) tert-Butylbenzene	13.00	119	1004103	56.694	ug/l	99
84) 1,2,4-Trimethylbenzene	13.05	105	1169770	57.766	ug/l	99
85) sec-Butylbenzene	13.18	105	1364175	58.113	ug/l	100
86) p-Isopropyltoluene	13.29	119	1246058	60.244	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	611398	56.657	ug/l	100
88) 1,4-Dichlorobenzene	13.37	146	607618	55.471	ug/l	99
89) n-Butylbenzene	13.62	91	1178082	60.314	ug/l	99
90) Hexachloroethane	13.88	117	187257	60.876	ug/l	100
91) 1,2-Dichlorobenzene	13.66	146	603693	55.997	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	81573	62.213	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091719\
Data File : VN058150.D
Acq On : 17 Sep 2019 15:28
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

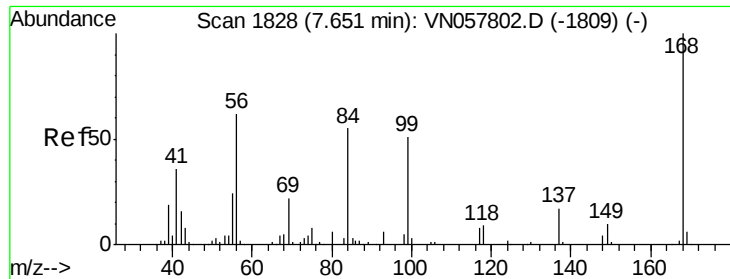
Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM

Quant Time: Sep 18 08:28:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	412750	58.574	ug/l	99
94) Hexachlorobutadiene	15.02	225	187351	62.720	ug/l	98
95) Naphthalene	15.13	128	1125173	63.679	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	381258	61.737	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 313806

Ion Ratio Lower Upper

168 100

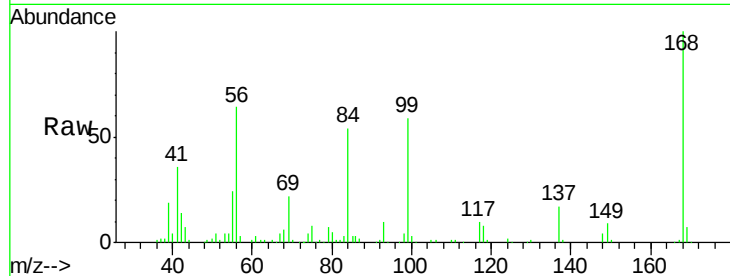
99 58.9 48.0 72.0

Manual Integrations

APPROVED

MMDadoda

9/18/2019 4:41:53 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

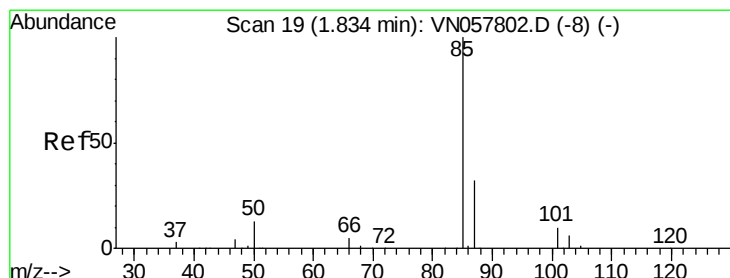
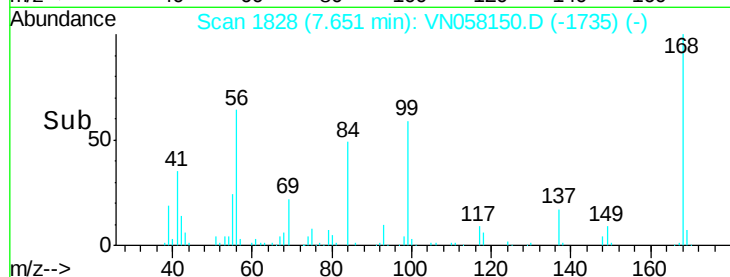
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 51.096 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058150.D

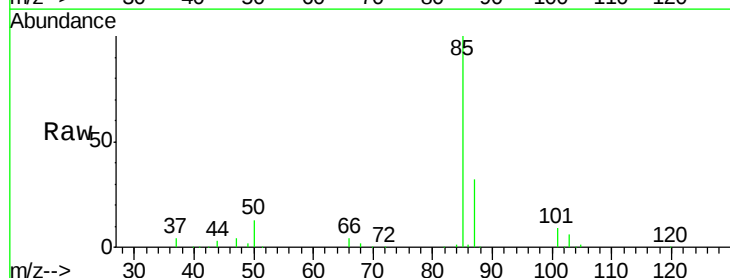
Acq: 17 Sep 2019 15:28

Tgt Ion: 85 Resp: 221745

Ion Ratio Lower Upper

85 100

87 31.9 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

200000

150000

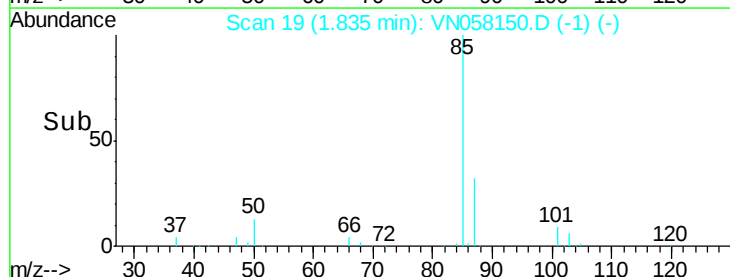
100000

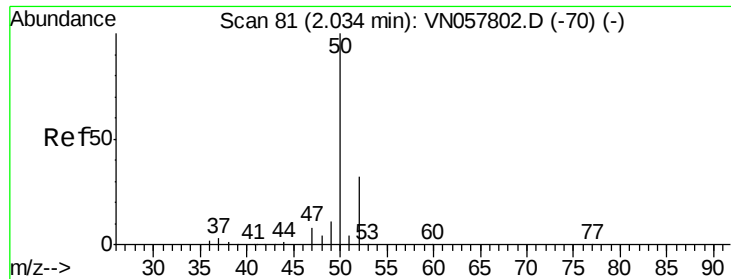
50000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 40.041 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 177107

Ion Ratio Lower Upper

50 100

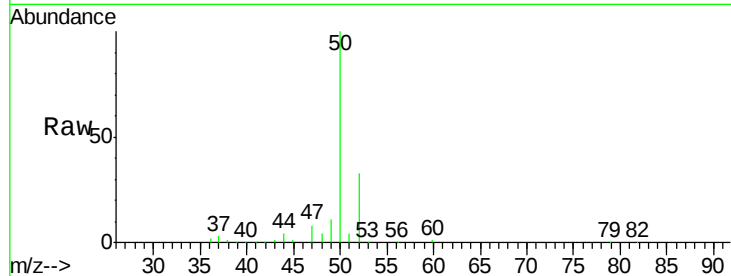
52 32.7 25.5 38.3

Manual Integrations

APPROVED

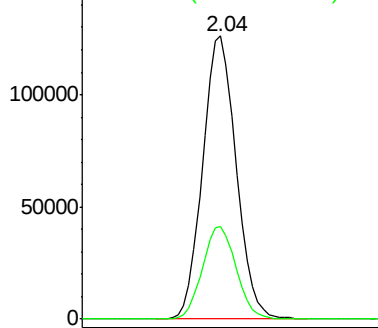
MMDadoda

9/18/2019 4:41:53 PM

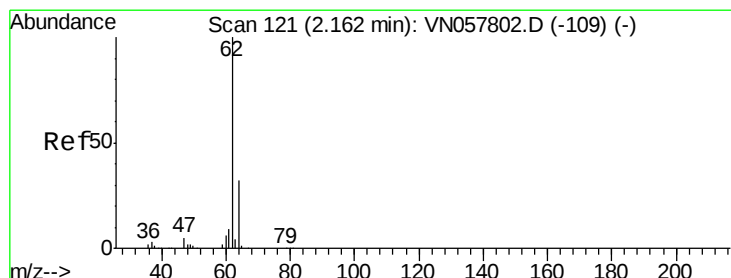
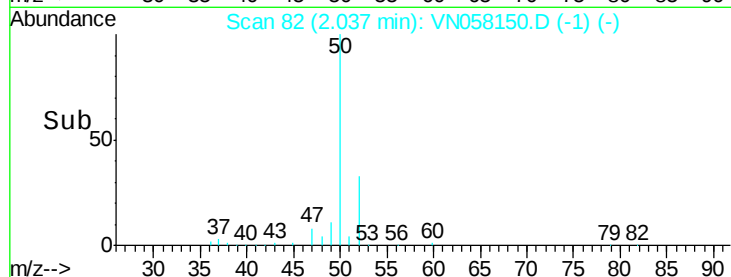


Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



Time-->



#4

Vinyl Chloride

Concen: 41.257 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.01 min

Lab File: VN058150.D

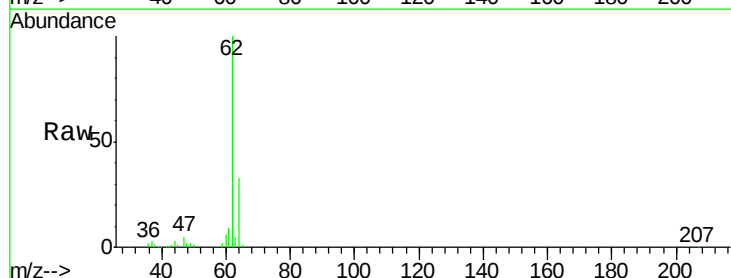
Acq: 17 Sep 2019 15:28

Tgt Ion: 62 Resp: 193140

Ion Ratio Lower Upper

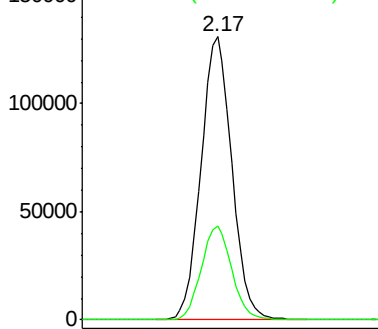
62 100

64 33.2 25.6 38.4

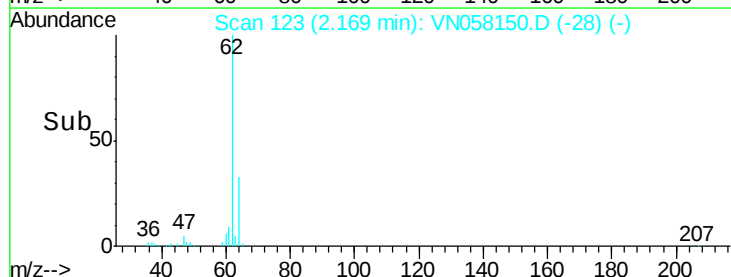


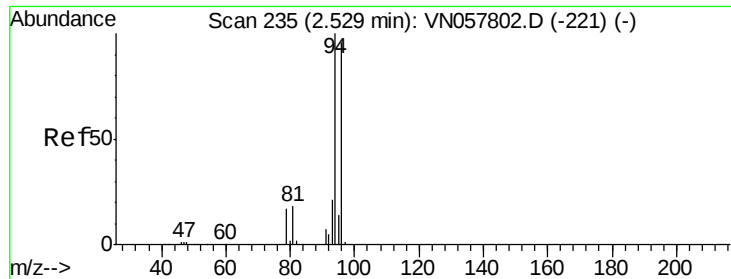
Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



Time-->





#5

Bromomethane

Concen: 38.574 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 100126

Ion Ratio Lower Upper

94 100

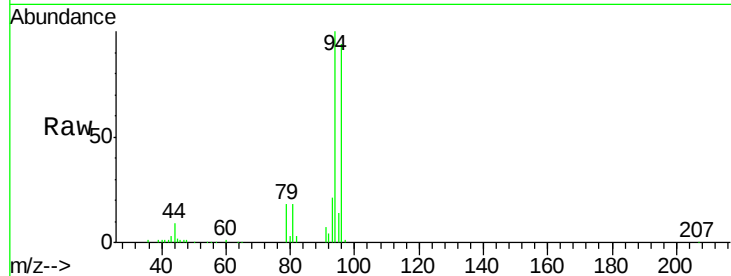
96 94.0 77.0 115.4

Manual Integrations

APPROVED

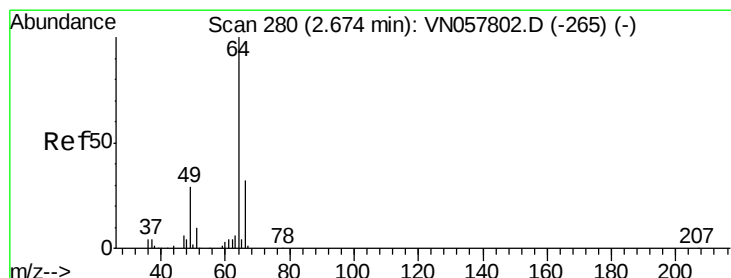
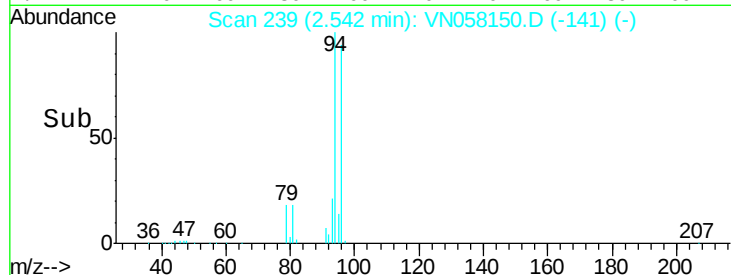
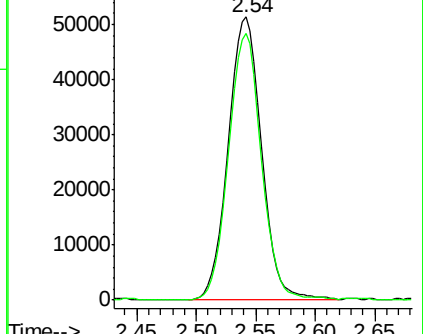
MMDadoda

9/18/2019 4:41:53 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 42.272 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.01 min

Lab File: VN058150.D

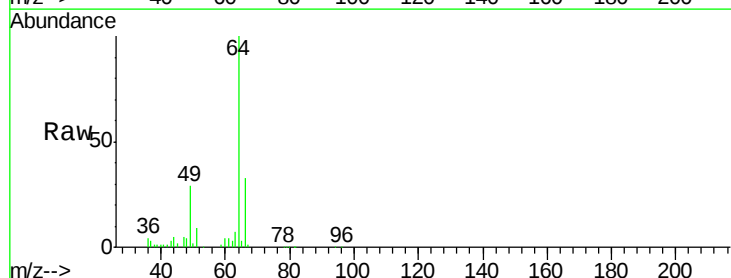
Acq: 17 Sep 2019 15:28

Tgt Ion: 64 Resp: 126099

Ion Ratio Lower Upper

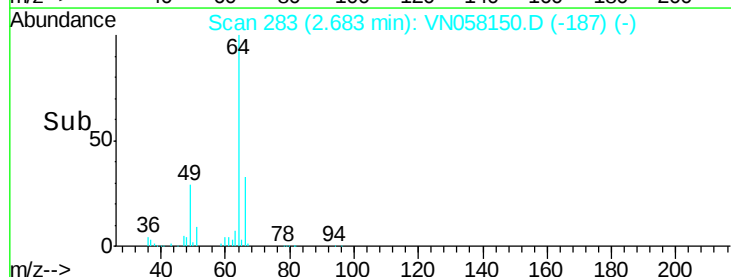
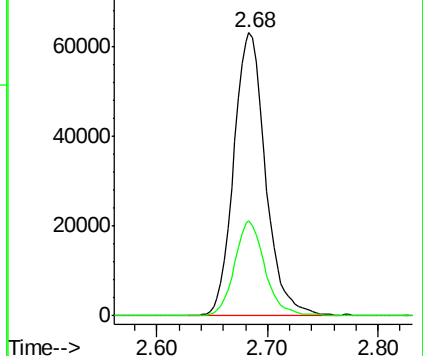
64 100

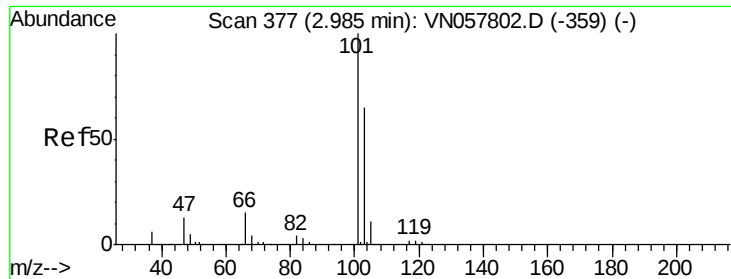
66 33.4 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

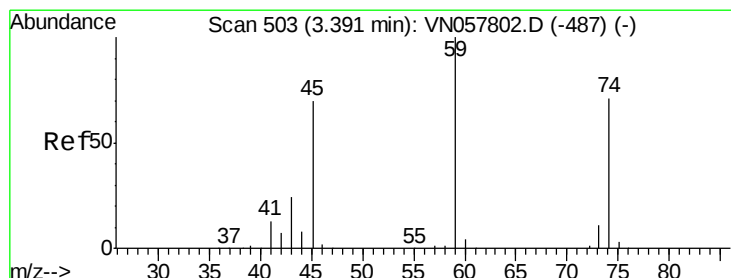
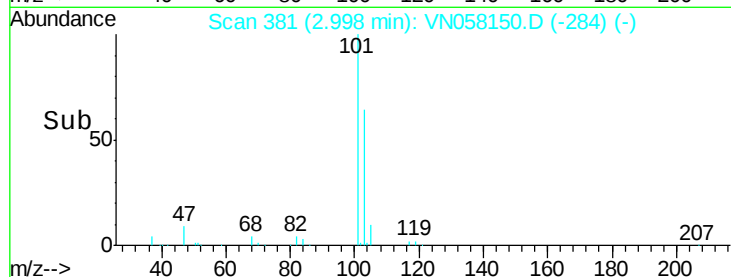
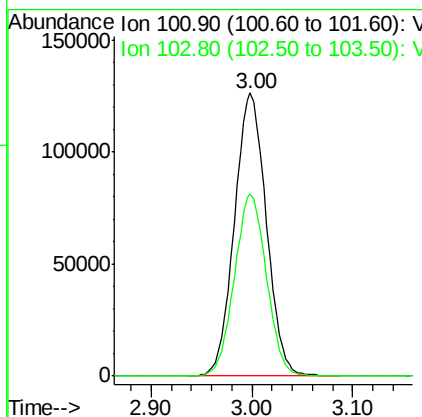
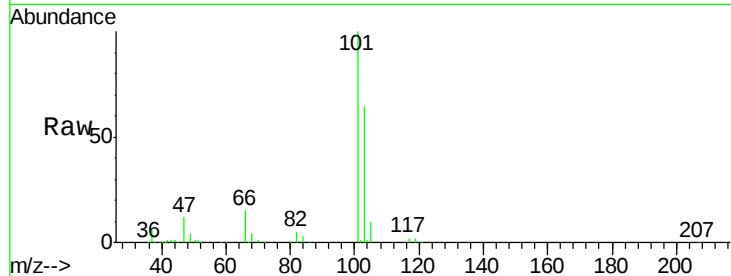
Trichlorofluoromethane
Concen: 47.089 ug/l
RT: 3.00 min Scan# 381
Delta R.T. 0.01 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.9	77.9

Manual Integrations
APPROVED

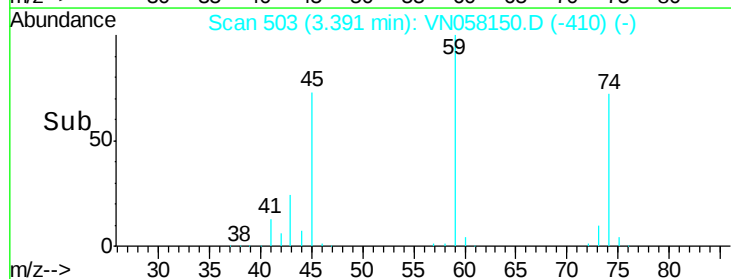
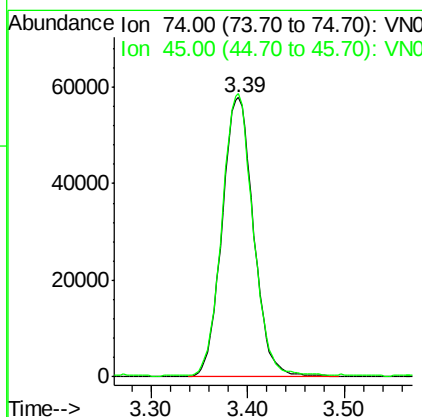
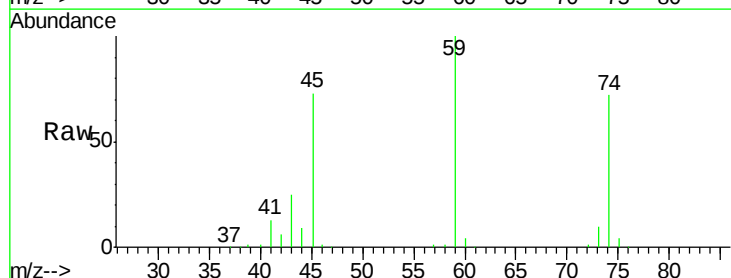
MMDadoda
9/18/2019 4:41:53 PM

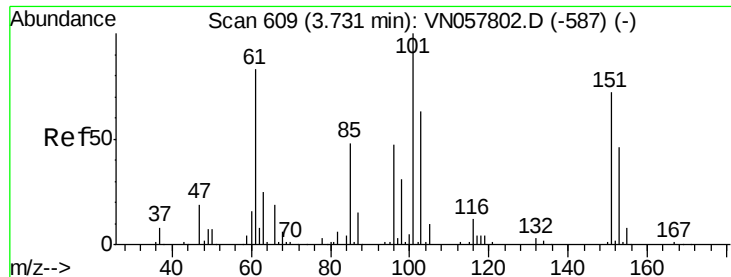


#8

Diethyl Ether
Concen: 53.150 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.4	50.3	151.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 54.547 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.01 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

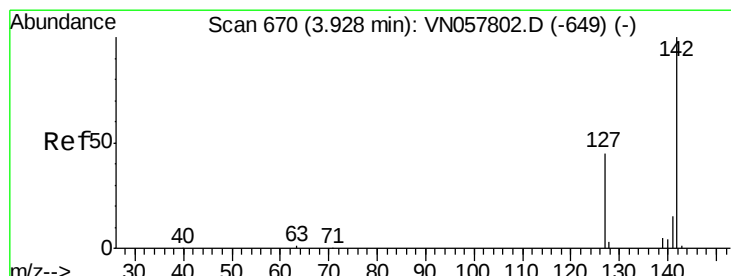
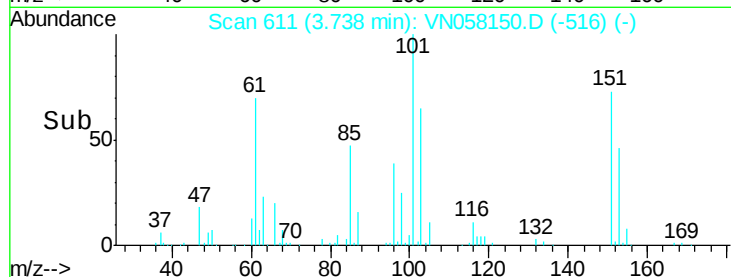
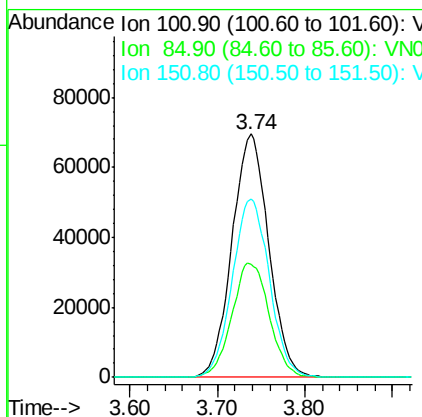
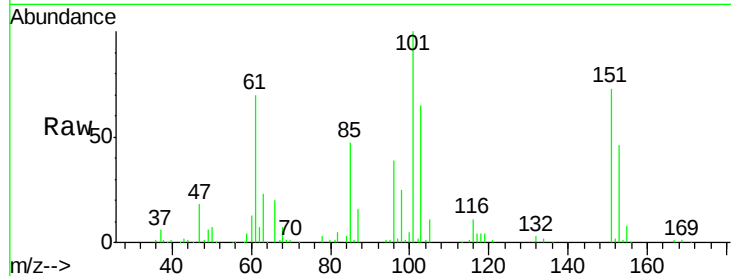
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	202716
Ion Ratio	Lower	Upper	
101	100		
85	47.8	38.1	57.1
151	74.0	58.4	87.6

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#10

Methyl Iodide

Concen: 37.588 ug/l

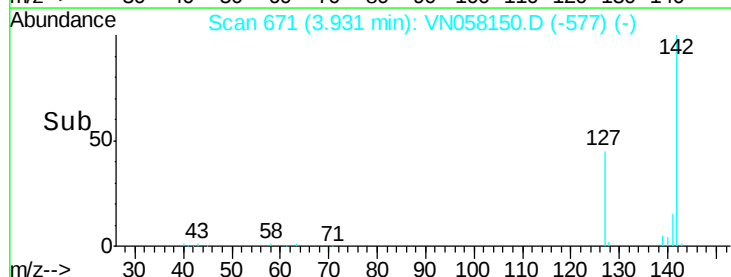
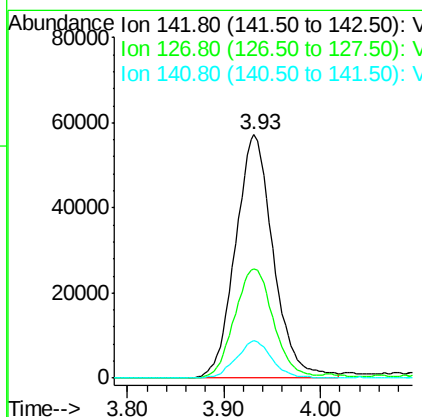
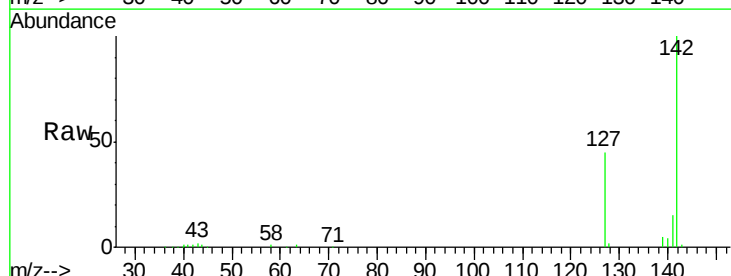
RT: 3.93 min Scan# 671

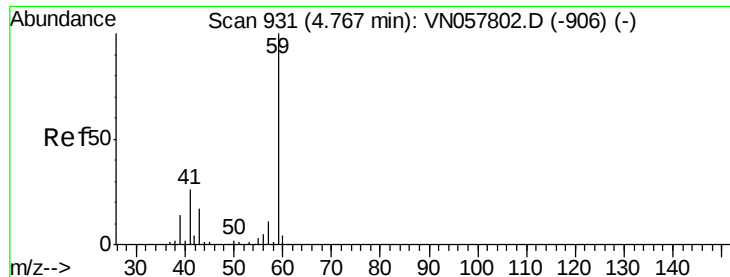
Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion:	142	Resp:	155451
Ion Ratio	Lower	Upper	
142	100		
127	46.4	36.7	55.1
141	14.5	11.4	17.0





#11

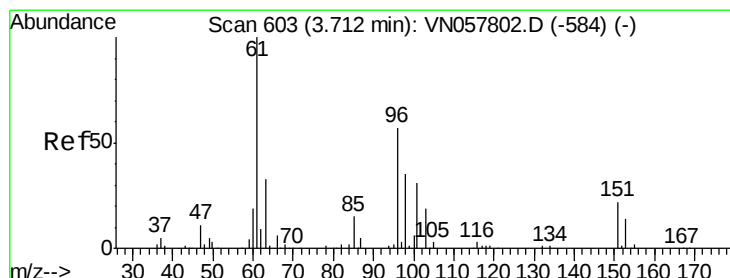
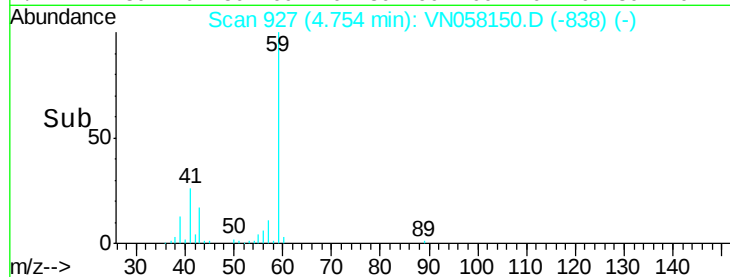
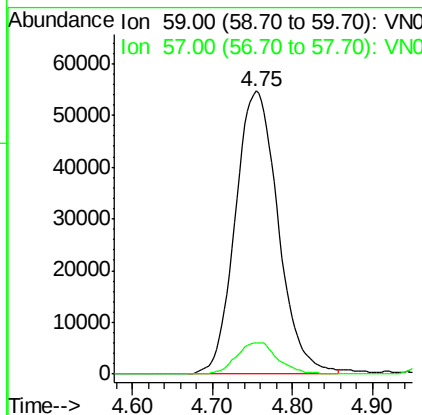
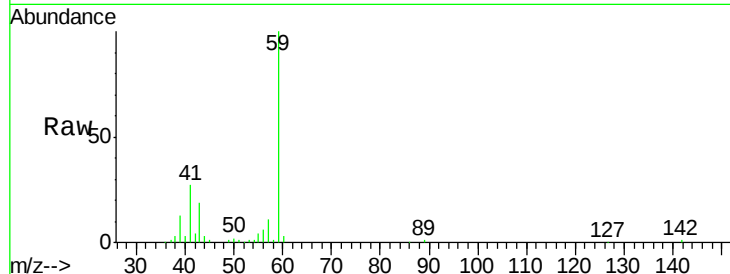
Tert butyl alcohol
Concen: 259.351 ug/l
RT: 4.75 min Scan# 927
Delta R.T. -0.01 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
59	100	199510		
57	10.6		8.4	12.6

Manual Integrations
APPROVED

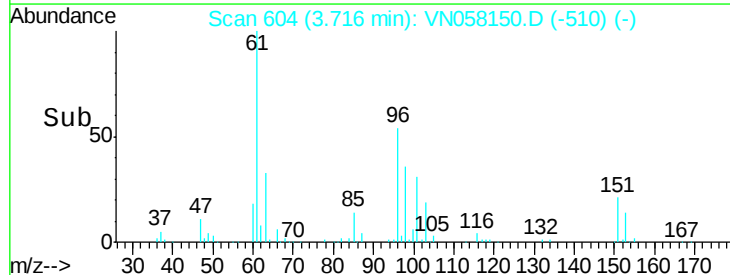
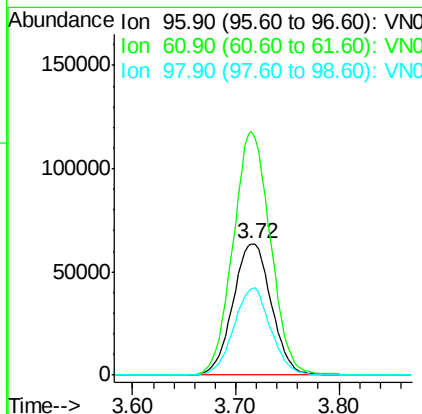
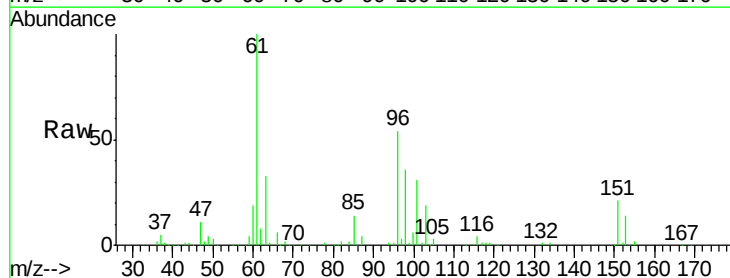
MMDadoda
9/18/2019 4:41:53 PM

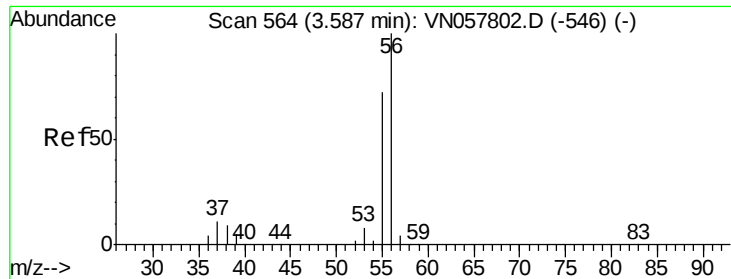


#12

1,1-Dichloroethene
Concen: 49.403 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	165079		
61	185.0		141.2	211.8
98	65.8		49.9	74.9





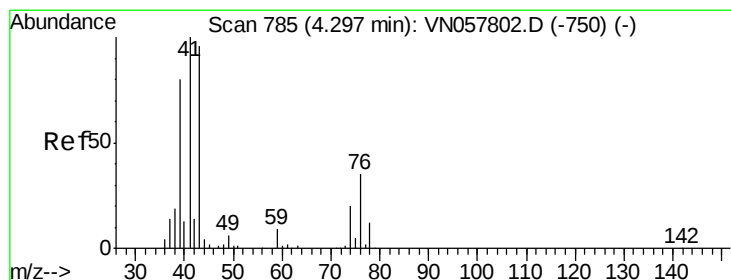
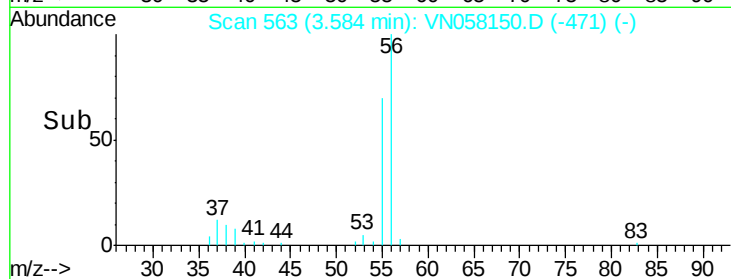
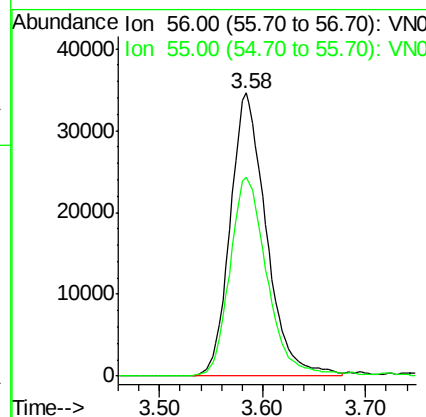
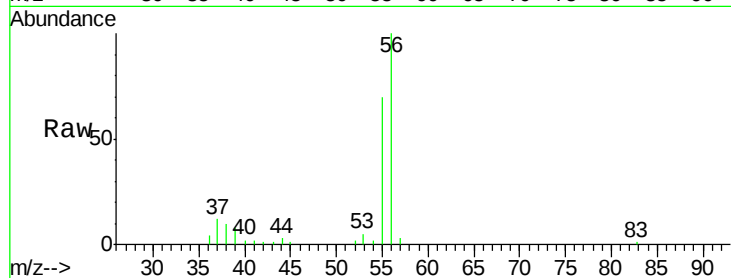
#13
Acrolein
Concen: 128.973 ug/l
RT: 3.58 min Scan# 563
Delta R.T. -0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	56	55	Ratio	100	Resp	Lower	Upper
84173							
	56	55	100	72.2		57.3	85.9

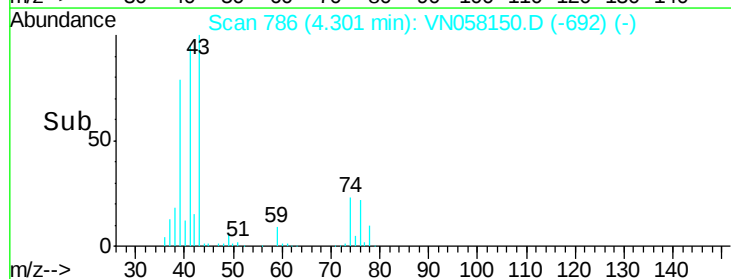
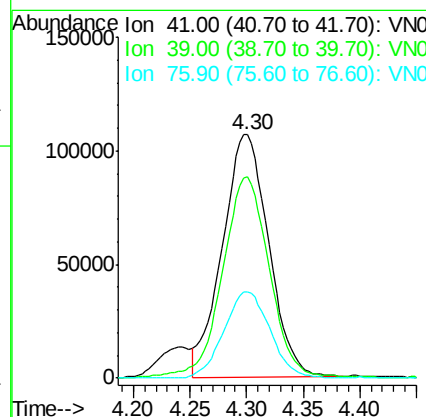
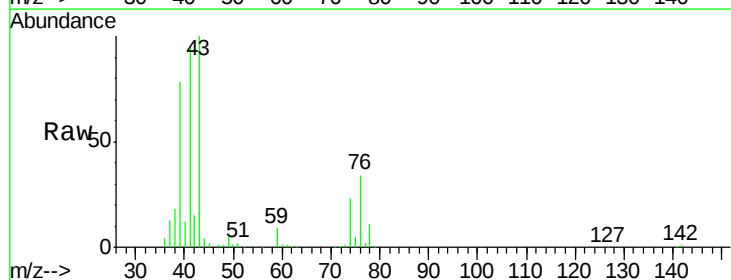
Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#14
Allyl chloride
Concen: 46.403 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	41	39	76	Ratio	100	Resp	Lower	Upper
303440								
	41	39	76	100	84.7	59.4	89.2	39.0





#15

Acrylonitrile

Concen: 282.276 ug/l

RT: 4.96 min Scan# 990

Delta R.T. -0.01 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

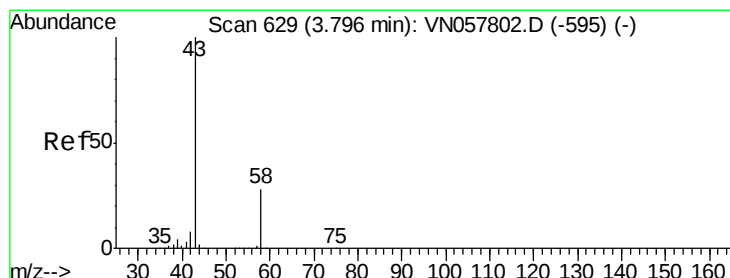
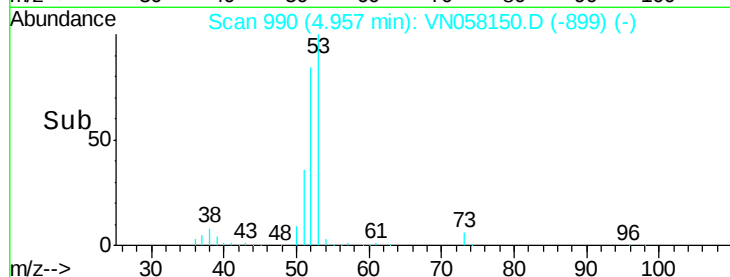
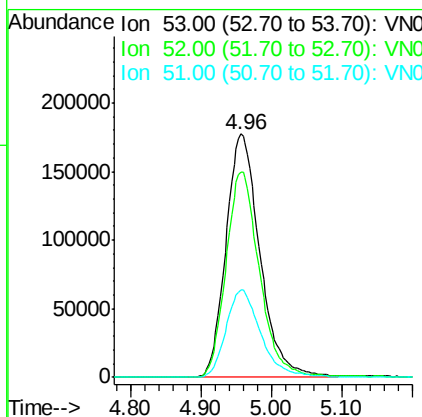
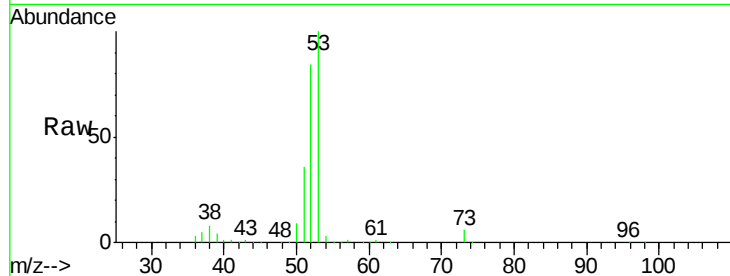
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	596844
Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.6	100.0
51	36.9	29.8	44.8

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#16

Acetone

Concen: 255.609 ug/l

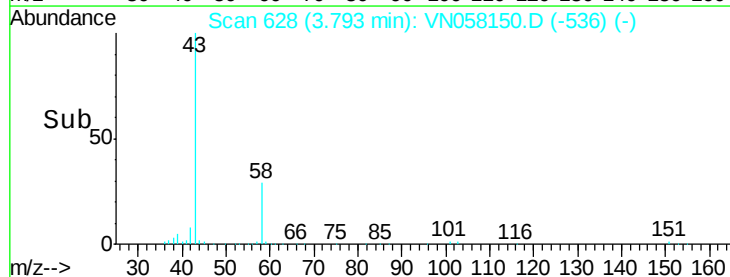
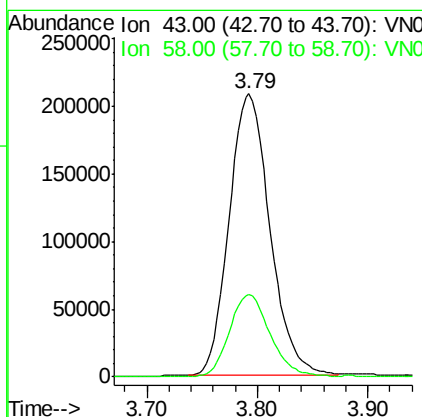
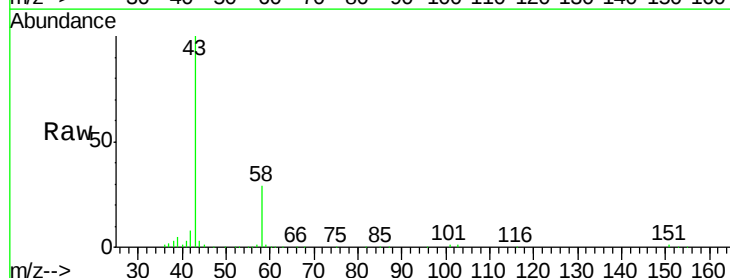
RT: 3.79 min Scan# 628

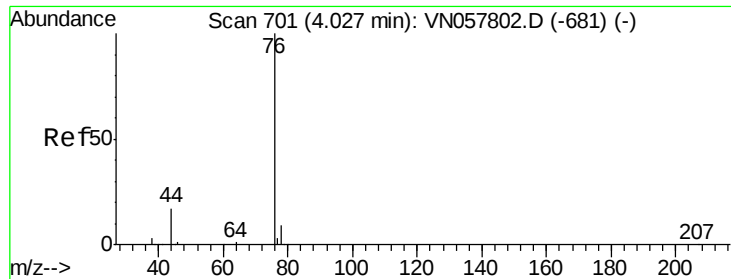
Delta R.T. -0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion:	43	Resp:	532581
Ion	Ratio	Lower	Upper
43	100		
58	29.0	22.2	33.2





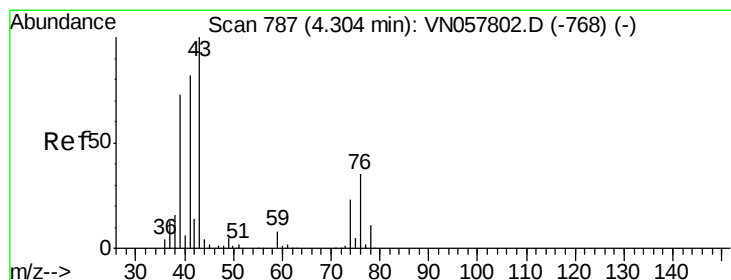
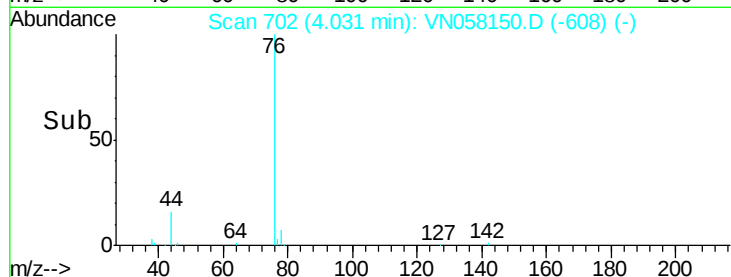
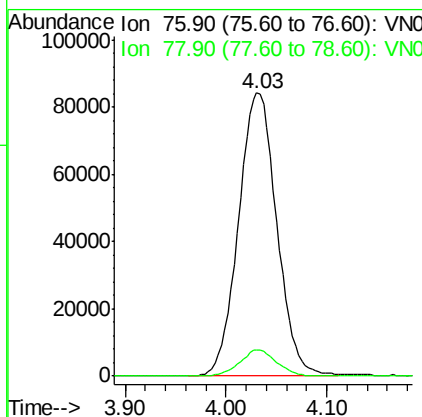
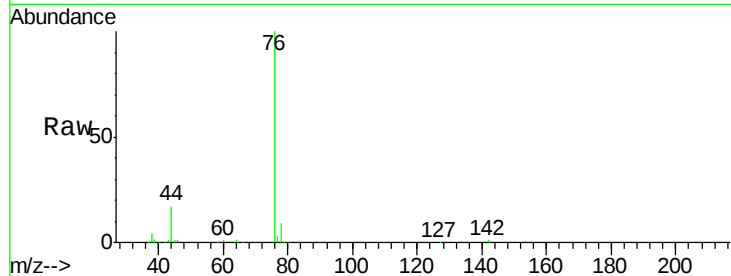
#17
Carbon Disulfide
Concen: 42.580 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.1	10.7

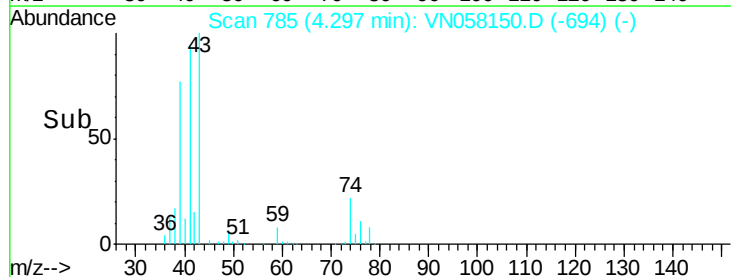
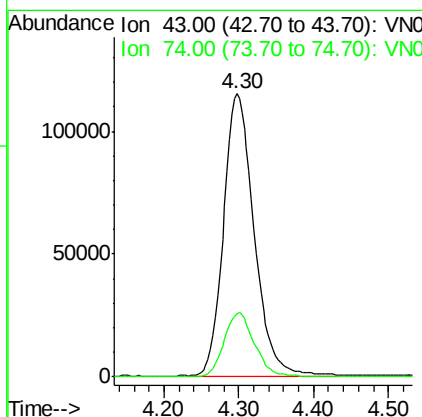
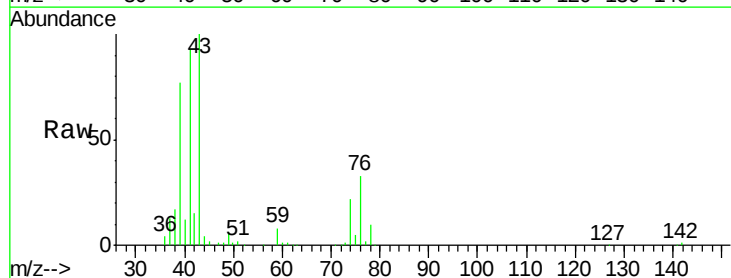
Manual Integrations
APPROVED

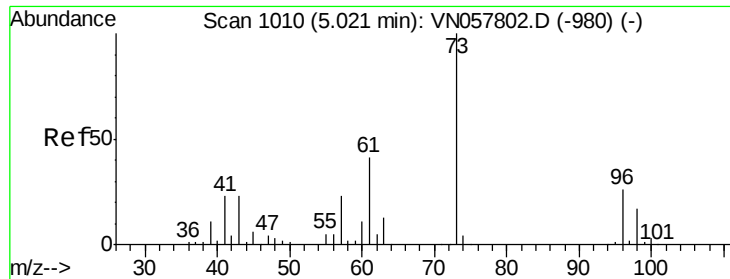
MMDadoda
9/18/2019 4:41:53 PM



#18
Methyl Acetate
Concen: 58.357 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.01 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.9	26.9





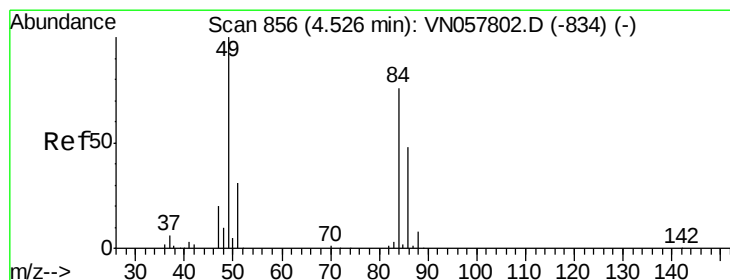
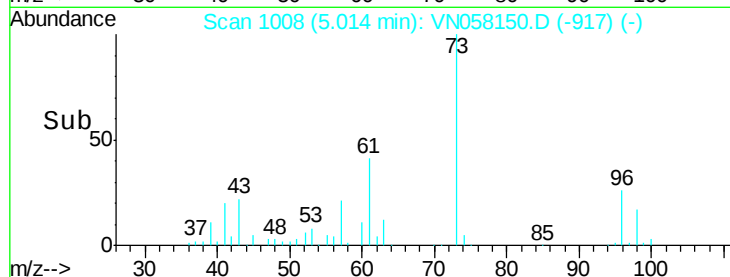
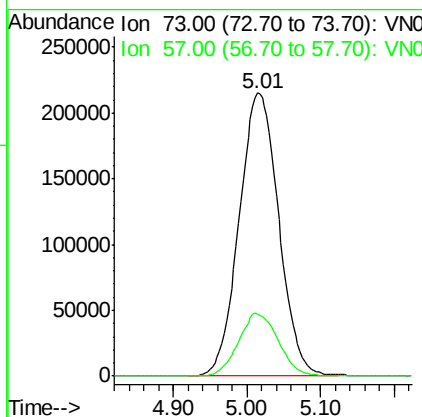
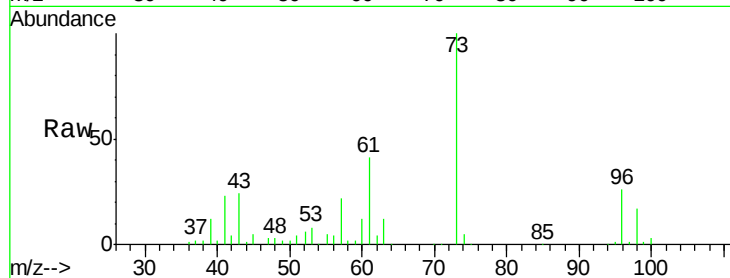
#19
Methvl tert-butvl Ether
Concen: 57.920 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.01 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 805432
Ion Ratio Lower Upper
73 100
57 21.8 18.2 27.2

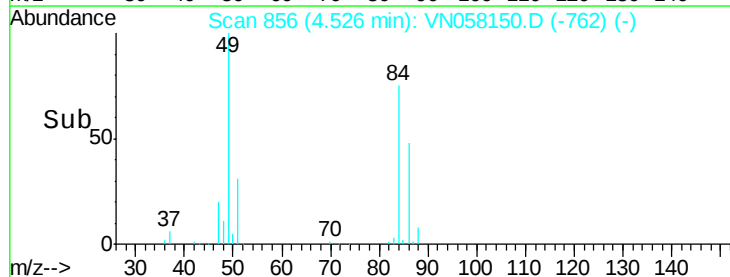
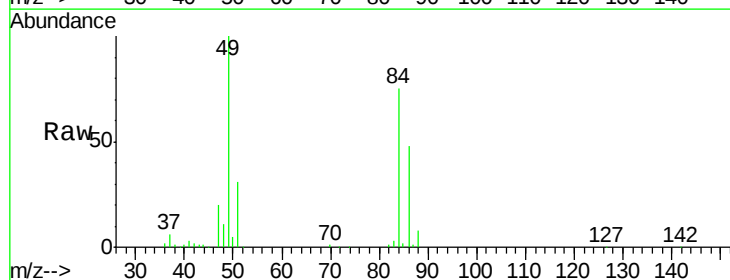
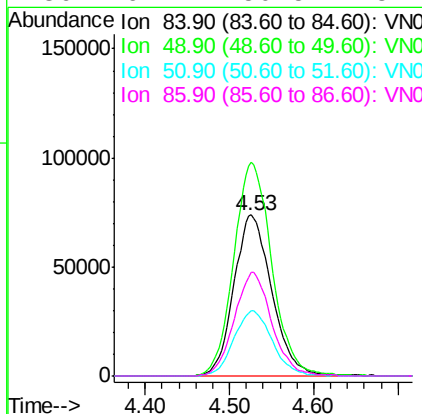
Manual Integrations
APPROVED

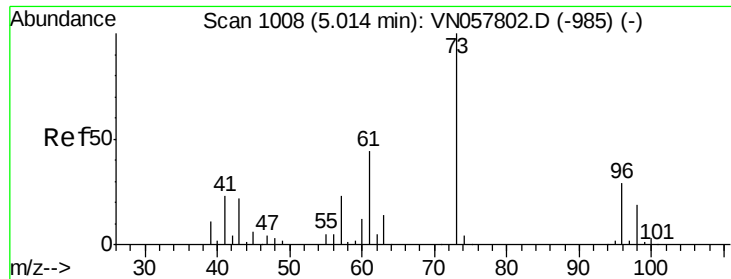
MMDadoda
9/18/2019 4:41:53 PM



#20
Methylene Chloride
Concen: 58.411 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion: 84 Resp: 230868
Ion Ratio Lower Upper
84 100
49 132.8 104.8 157.2
51 40.8 33.0 49.4
86 64.1 50.5 75.7





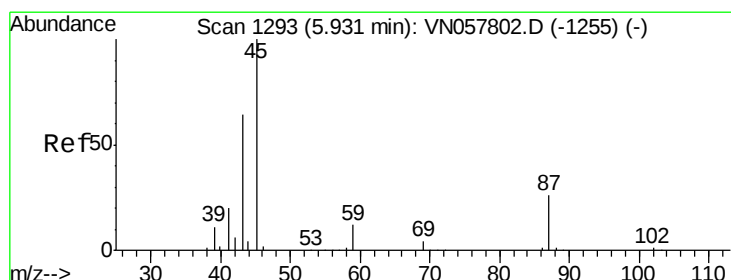
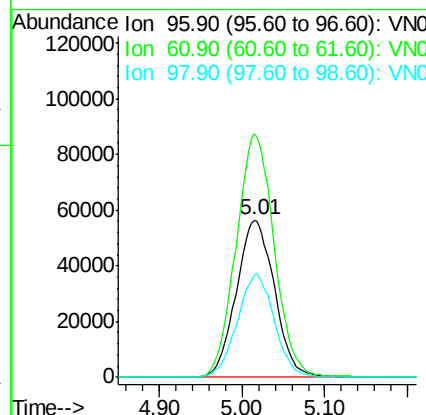
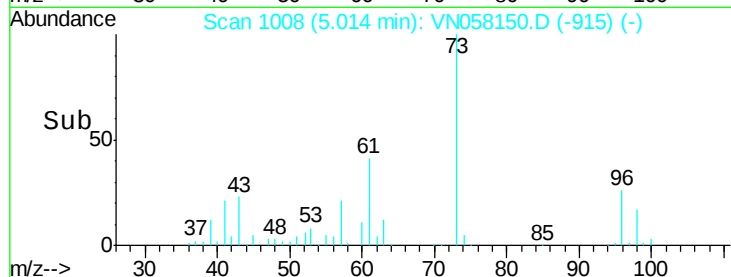
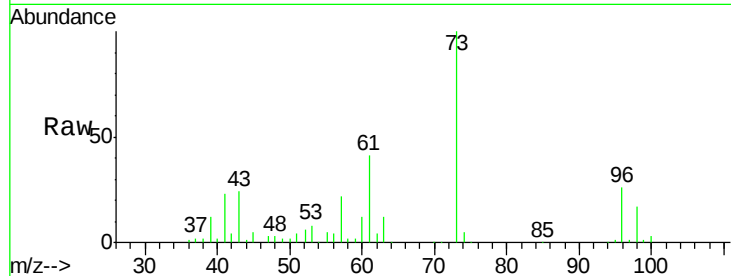
#21
trans-1,2-Dichloroethene
Concen: 50.050 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.7	121.9	182.9
98	64.8	52.2	78.4

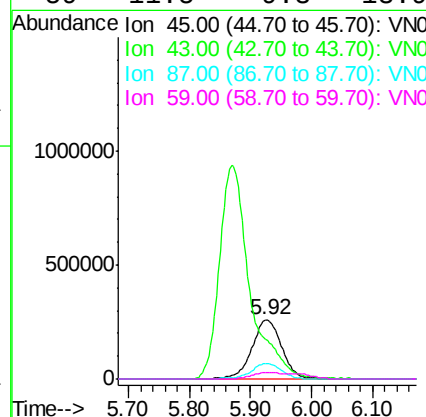
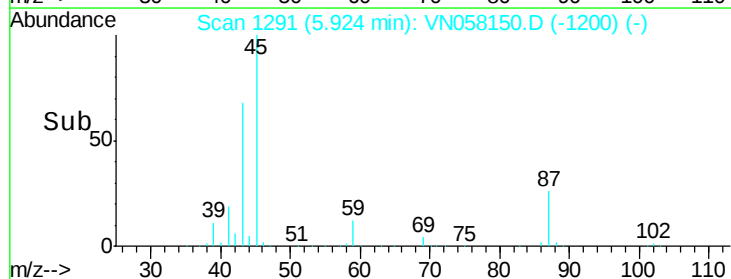
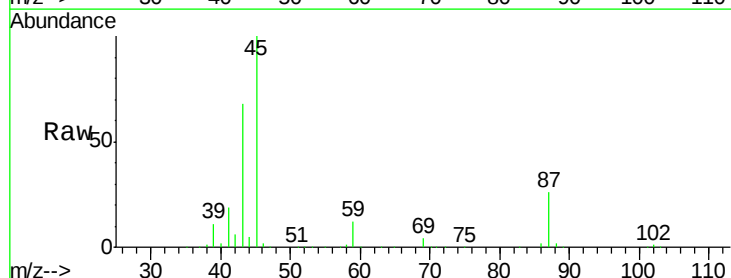
Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#22
Diisopropyl ether
Concen: 57.656 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. -0.01 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
45	100		
43	67.8	51.4	77.2
87	25.6	21.3	31.9
59	11.5	9.3	13.9





#23

Vinyl Acetate

Concen: 298.936 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleID :

VSTDCCC050EC

Tot Ion: 43 Resp: 3248868

Ion Ratio Lower Upper

43 100

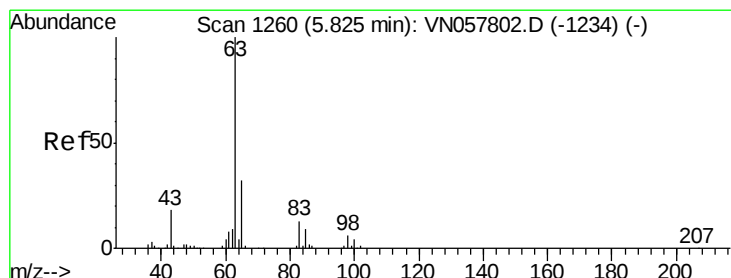
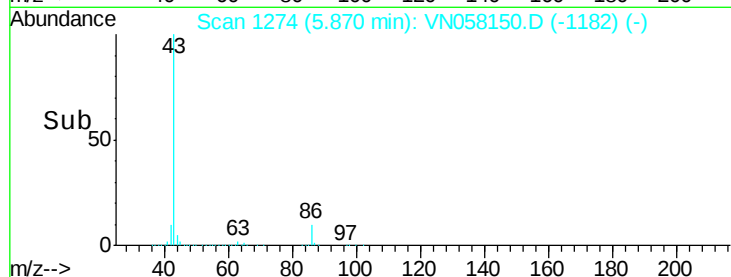
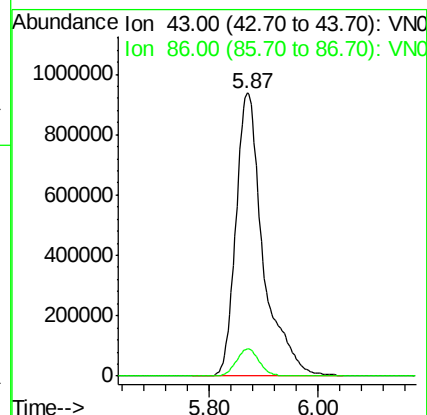
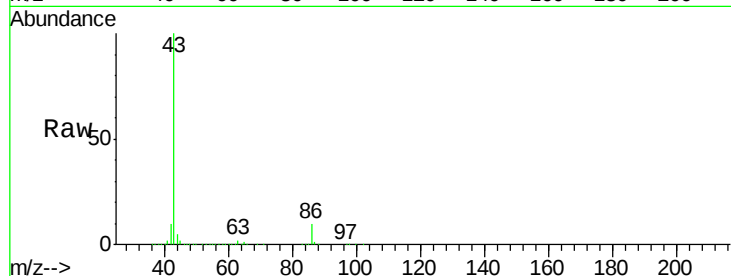
86 9.6 7.7 11.5

Manual Integrations

APPROVED

MMDadoda

9/18/2019 4:41:53 PM



#24

1,1-Dichloroethane

Concen: 55.249 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

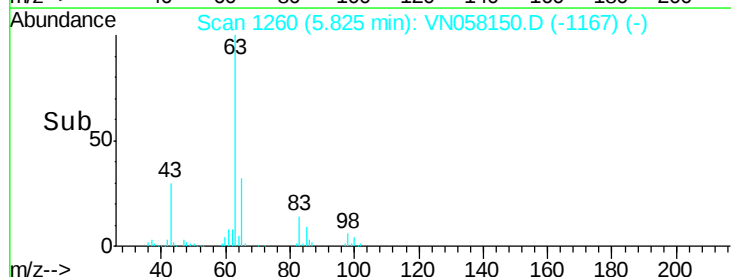
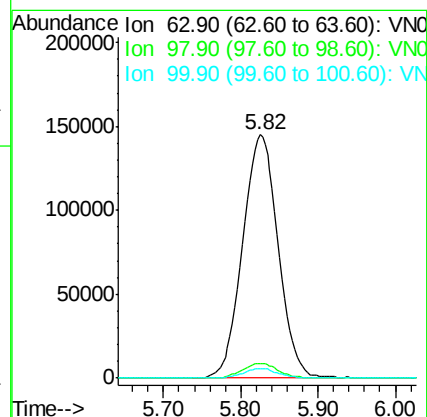
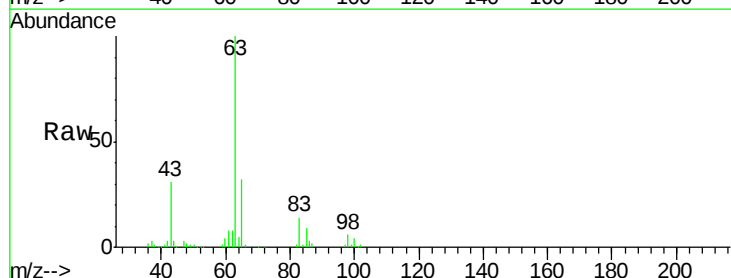
Tgt Ion: 63 Resp: 463049

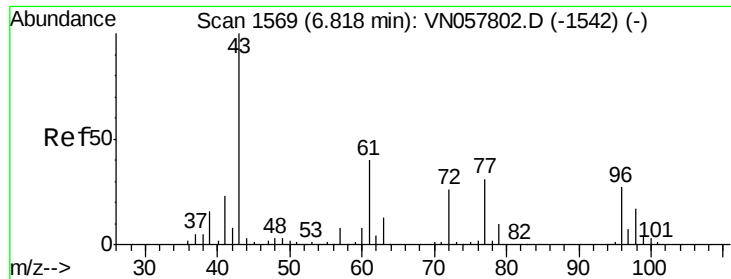
Ion Ratio Lower Upper

63 100

98 6.1 3.0 9.2

100 4.1 2.0 5.8





#25

2-Butanone

Concen: 274.139 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 826713

Ion Ratio Lower Upper

43 100

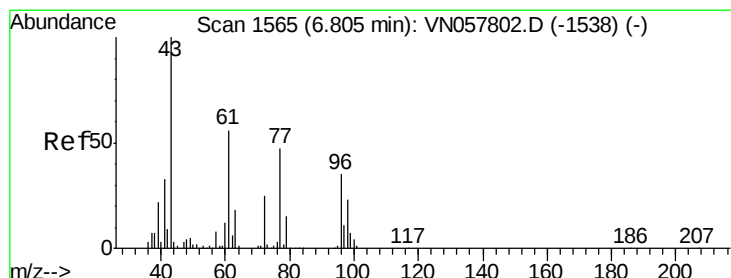
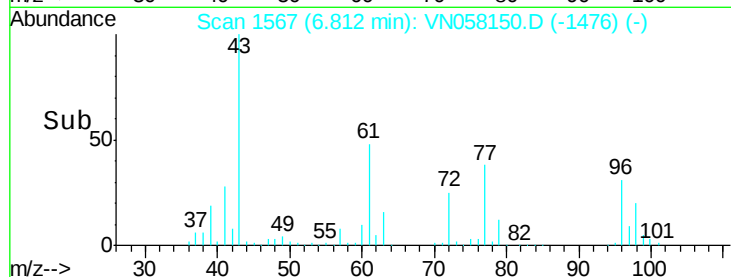
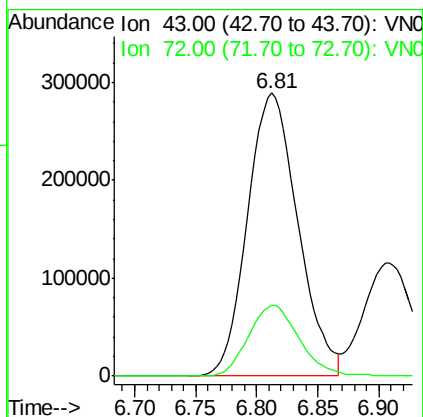
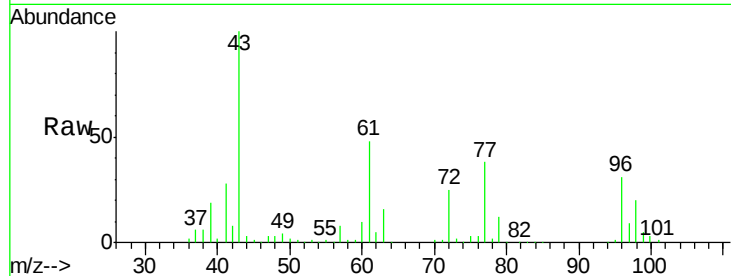
72 25.0 20.6 30.8

Manual Integrations

APPROVED

MMDadoda

9/18/2019 4:41:53 PM



#26

2,2-Dichloropropane

Concen: 56.687 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058150.D

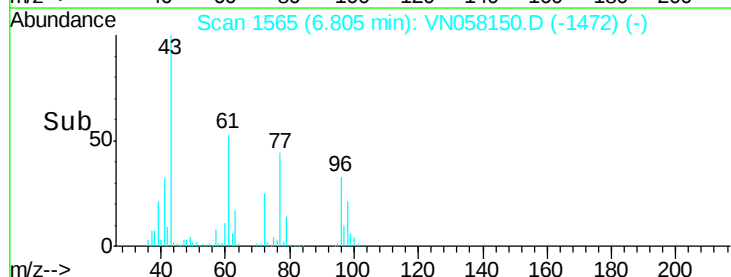
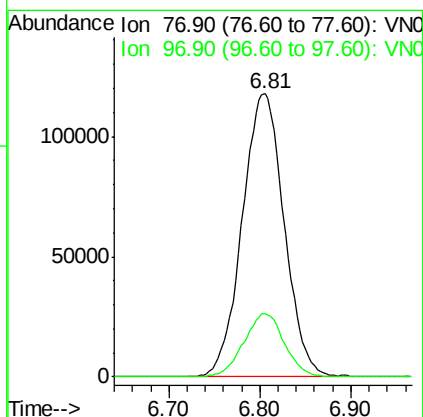
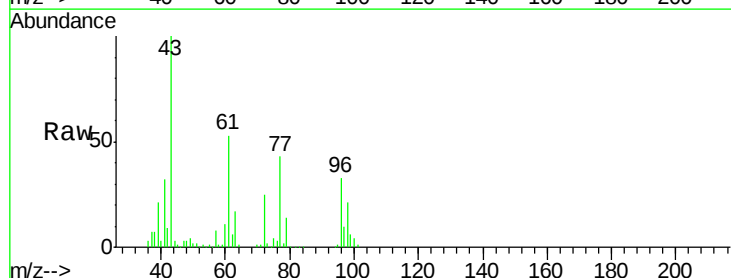
Acq: 17 Sep 2019 15:28

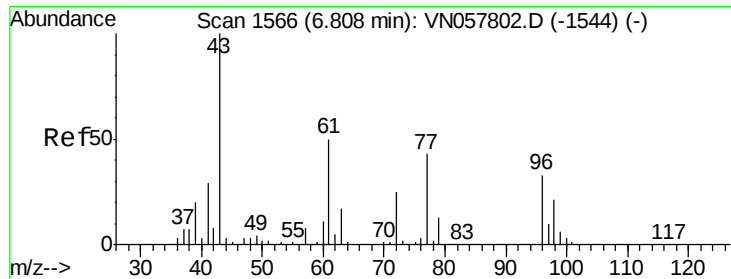
Tgt Ion: 77 Resp: 375982

Ion Ratio Lower Upper

77 100

97 21.7 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 55.277 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

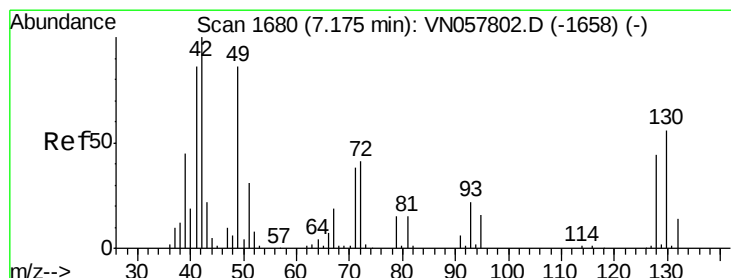
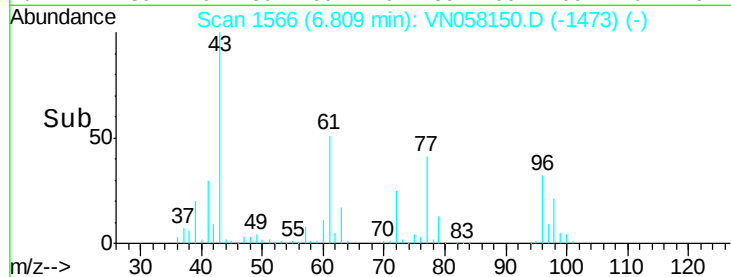
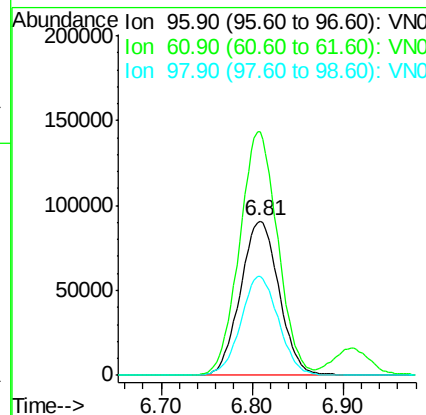
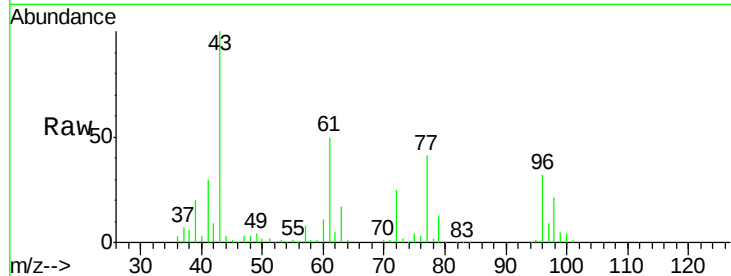
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	267581
Ion Ratio	Lower	Upper	
96	100		
61	156.1	0.0	314.0
98	62.9	0.0	128.6

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#28

Bromochloromethane

Concen: 54.997 ug/l

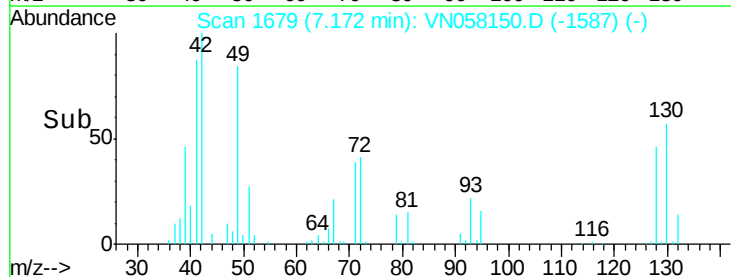
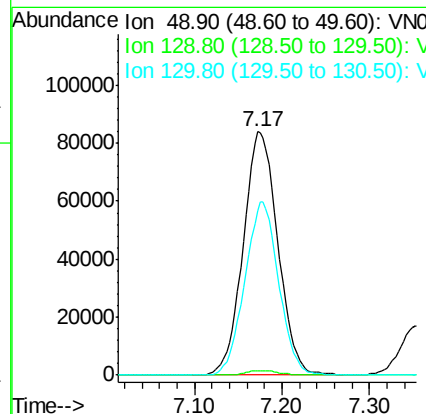
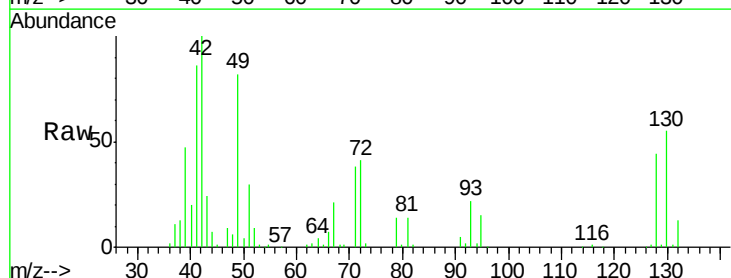
RT: 7.17 min Scan# 1679

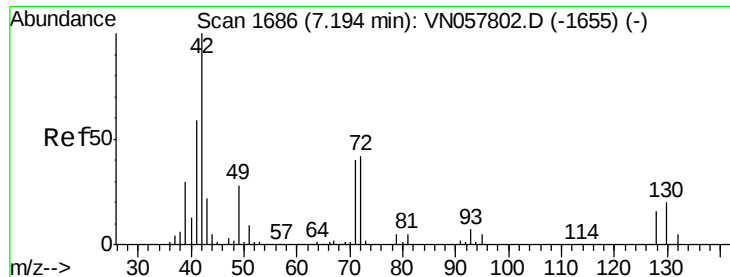
Delta R.T. -0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion:	49	Resp:	230278
Ion Ratio	Lower	Upper	
49	100		
129	0.9	0.0	3.8
130	69.7	53.0	79.6





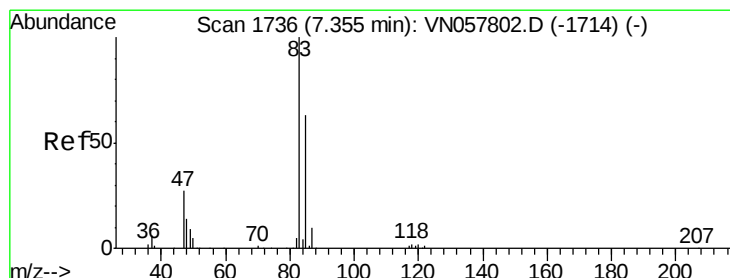
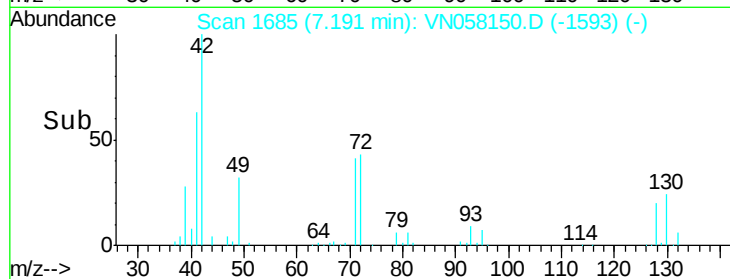
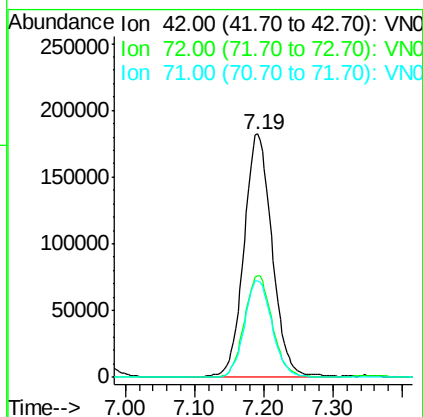
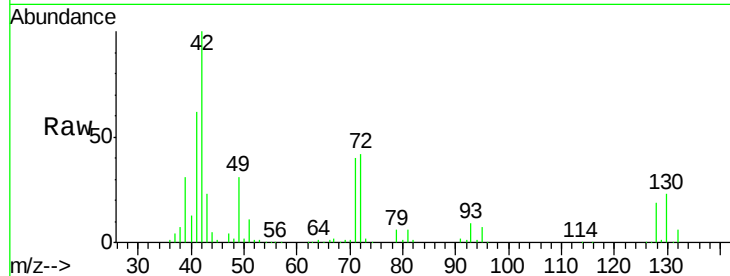
#29
Tetrahydrofuran
Concen: 276.834 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.0	33.7	50.5
71	39.0	31.9	47.9

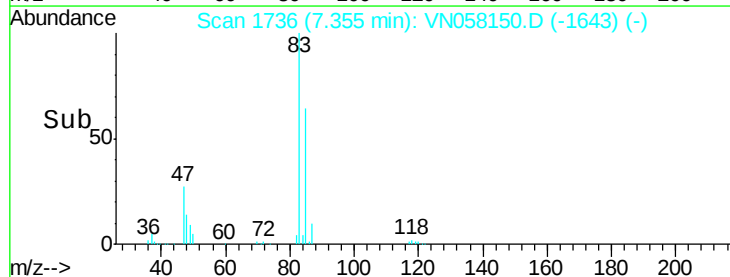
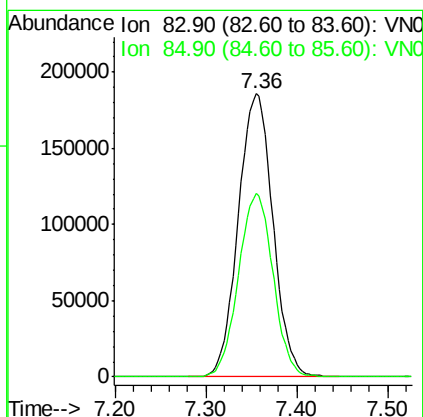
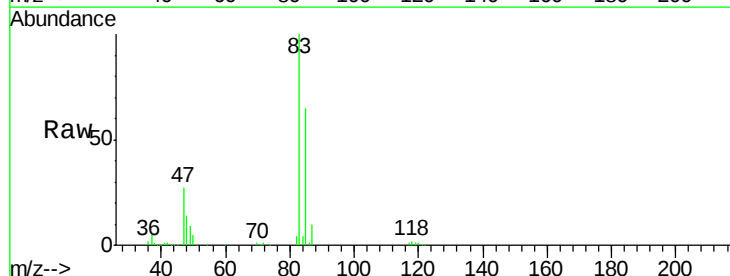
Manual Integrations
APPROVED

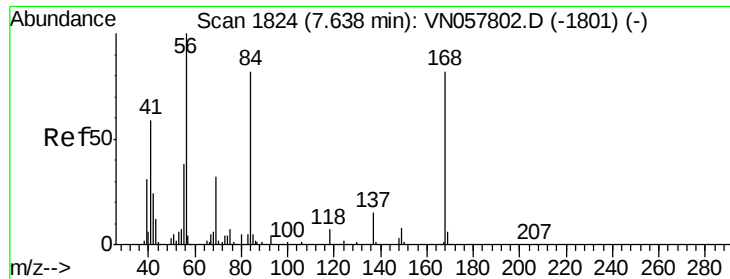
MMDadoda
9/18/2019 4:41:53 PM



#30
Chloroform
Concen: 56.132 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.6	75.8





#31

Cyclohexane

Concen: 53.321 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

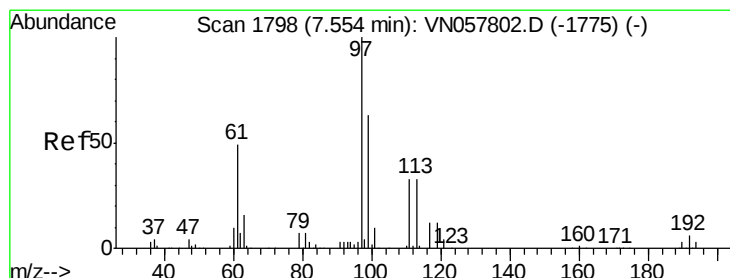
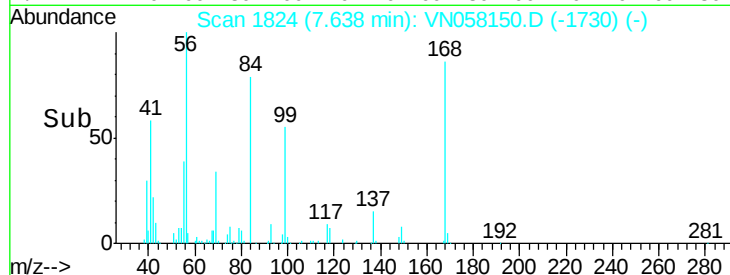
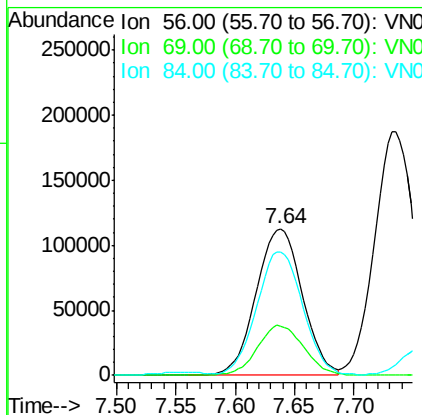
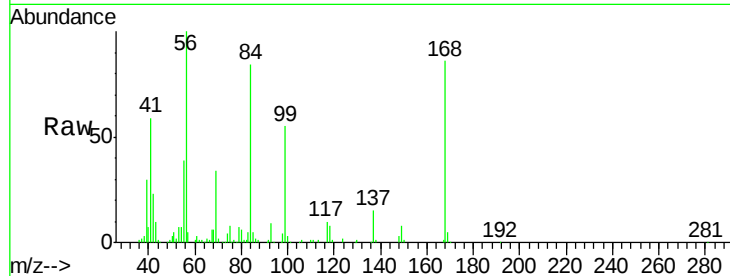
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	303690
Ion	Ratio	Lower	Upper
56	100		
69	33.8	25.9	38.9
84	81.7	65.6	98.4

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#32

1,1,1-Trichloroethane

Concen: 56.134 ug/l

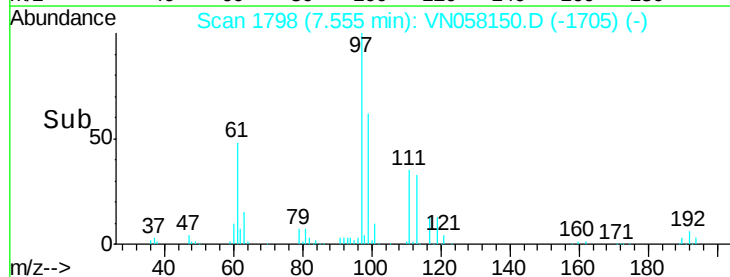
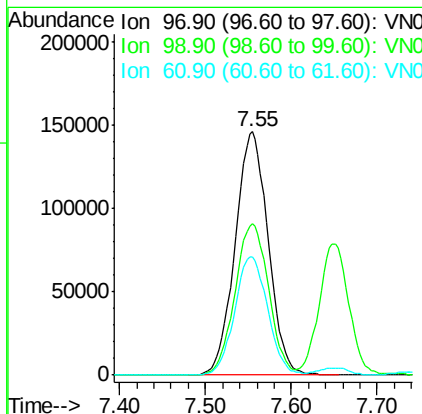
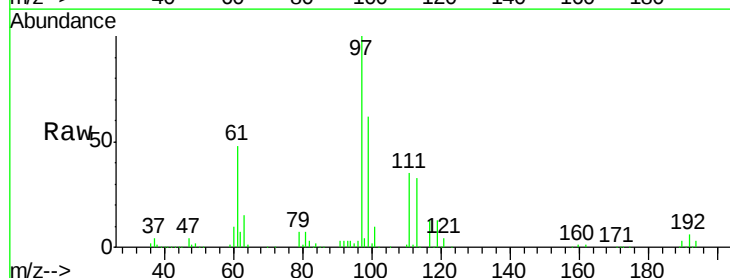
RT: 7.55 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion:	97	Resp:	390138
Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.0	76.4
61	48.7	39.0	58.6





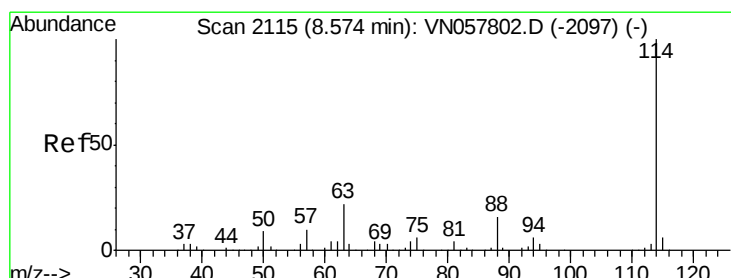
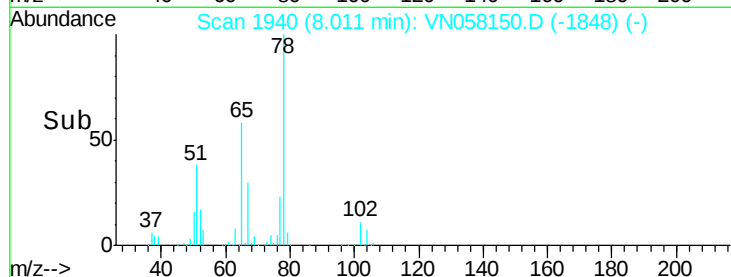
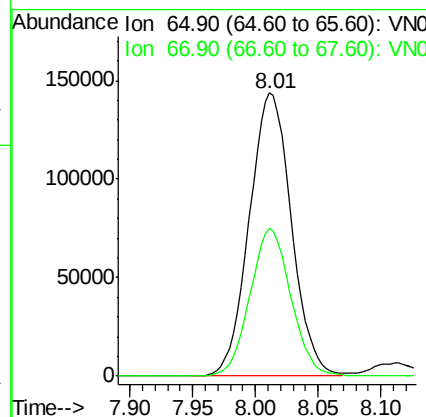
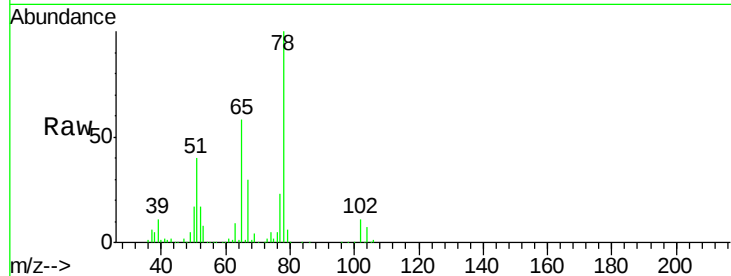
#33
 1,2-Dichloroethane-d4
 Concen: 52.744 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	335238		
67	50.7	0.0	104.0	

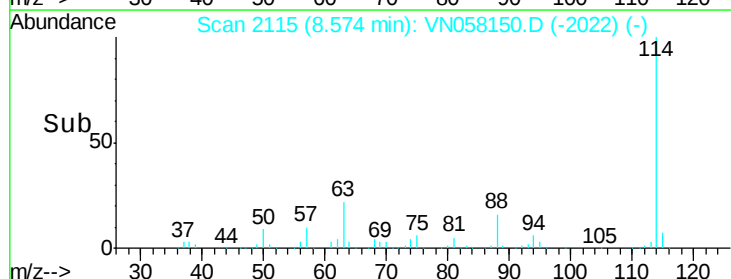
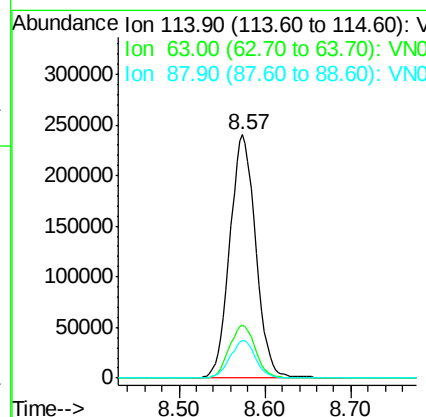
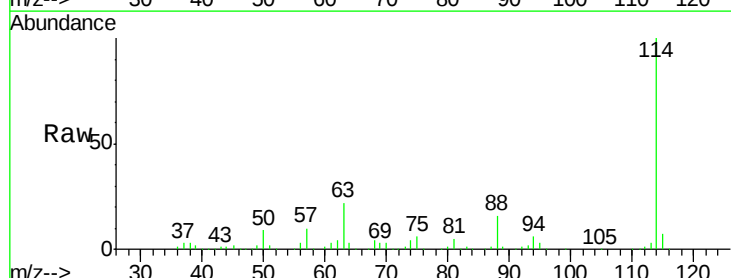
Manual Integrations
 APPROVED

MMDadoda
 9/18/2019 4:41:53 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	502708		
63	22.0	0.0	44.0	
88	15.6	0.0	31.4	





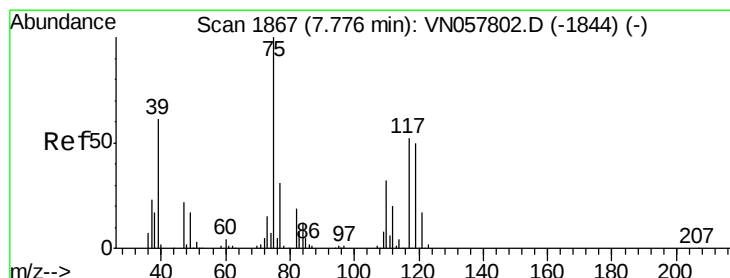
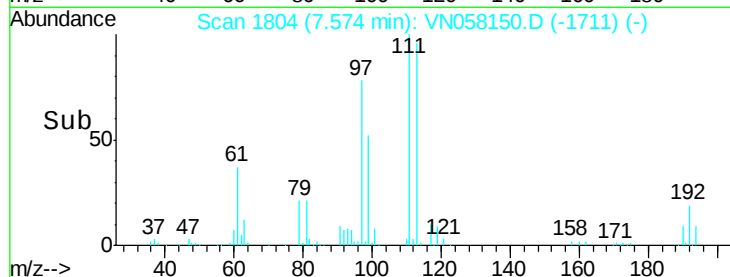
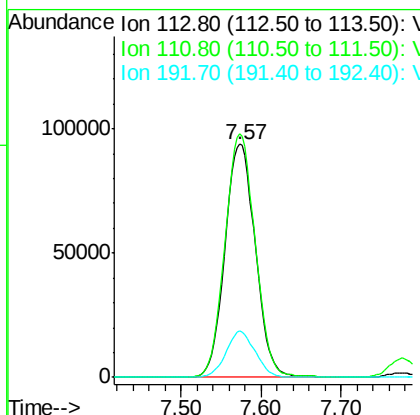
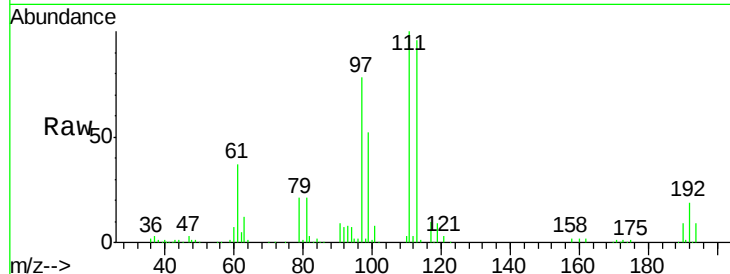
#35
 Dibromofluoromethane
 Concen: 52.516 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	243664		
111	103.5	81.3	121.9	
192	18.9	14.6	22.0	

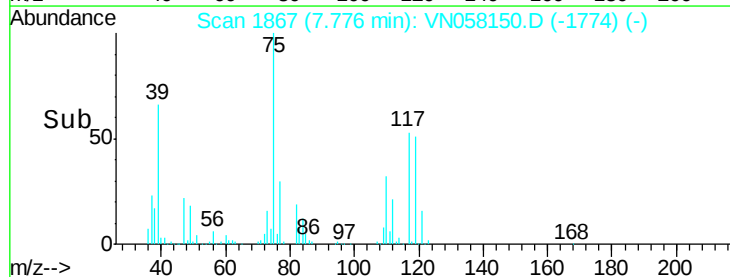
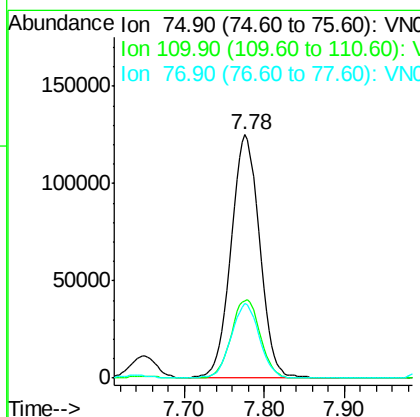
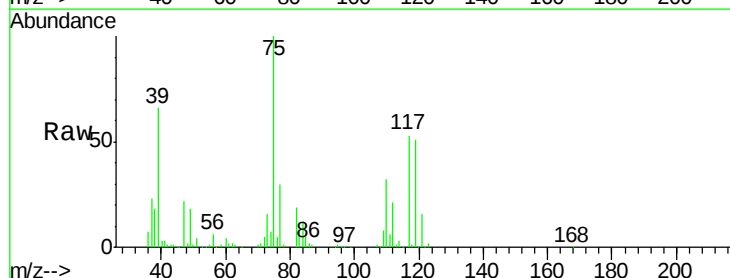
Manual Integrations
 APPROVED

MMDadoda
 9/18/2019 4:41:53 PM



#36
 1,1-Dichloropropene
 Concen: 51.492 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	300203		
110	33.0	16.3	48.9	
77	30.5	25.0	37.4	





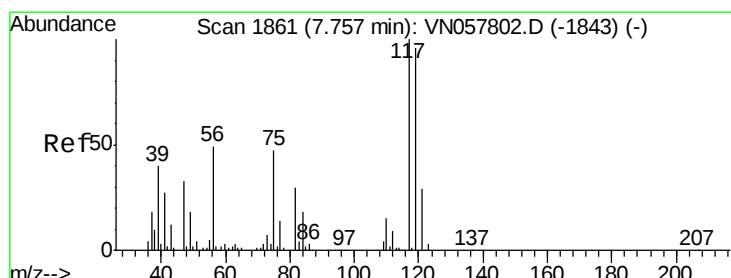
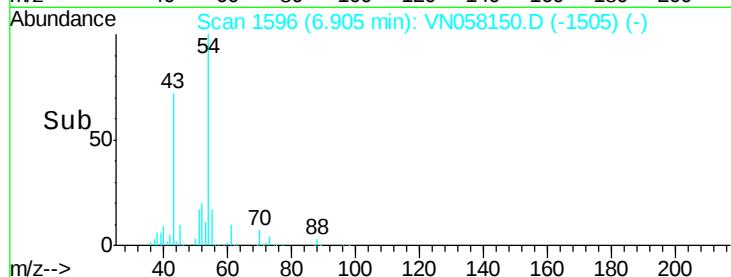
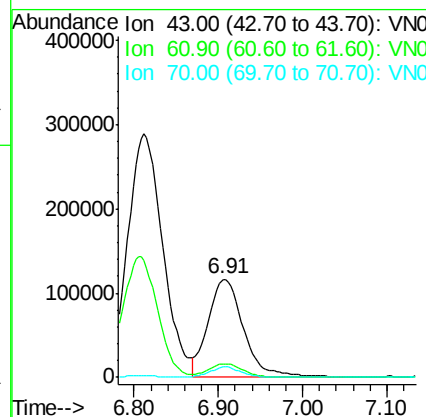
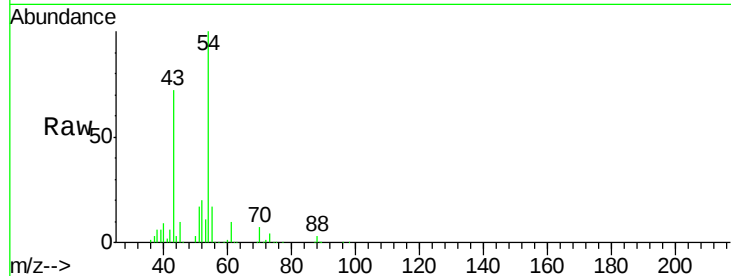
#37
Ethyl Acetate
Concen: 55.765 ug/l
RT: 6.91 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.5	15.7
70	9.5	7.4	11.0

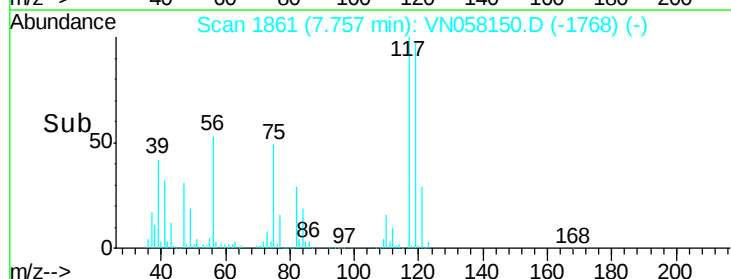
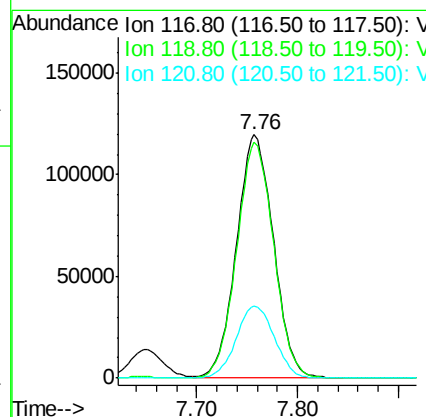
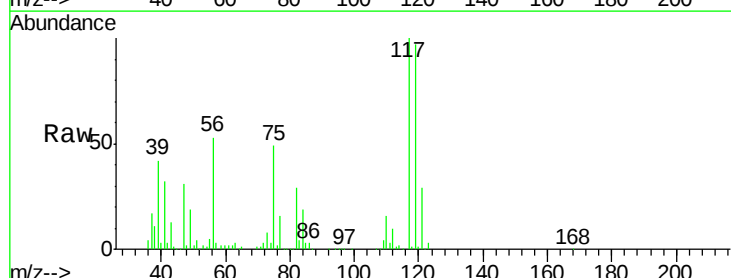
Manual Integrations
APPROVED

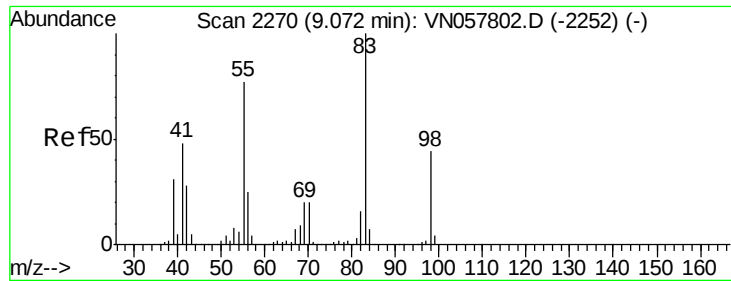
MMDadoda
9/18/2019 4:41:53 PM



#38
Carbon Tetrachloride
Concen: 57.042 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.9	115.3
121	29.4	23.4	35.2





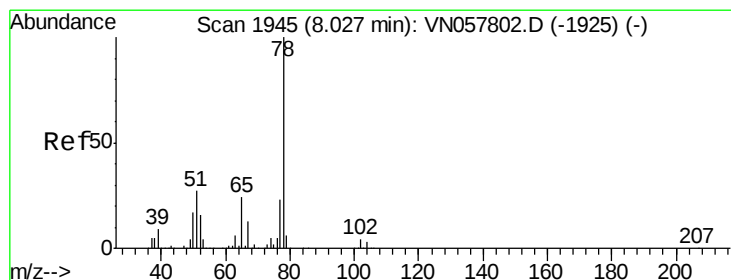
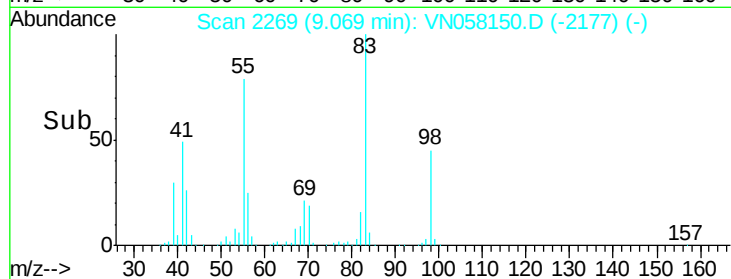
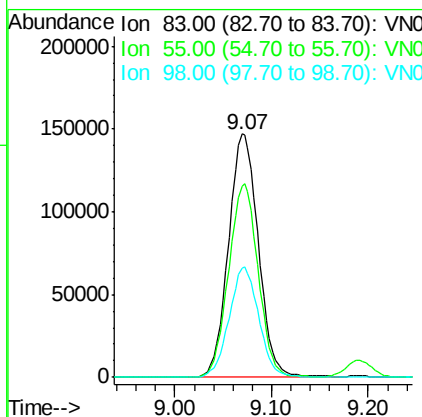
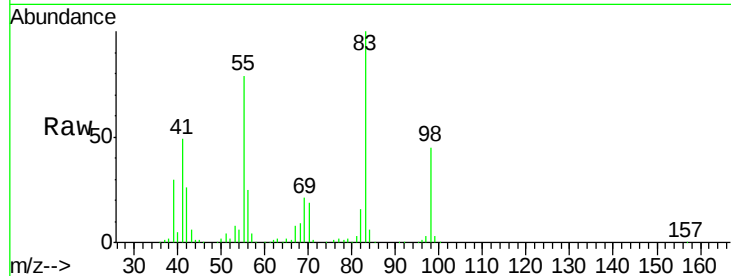
#39
Methvlcvclohexane
Concen: 51.474 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.6	61.6	92.4
98	45.1	34.9	52.3

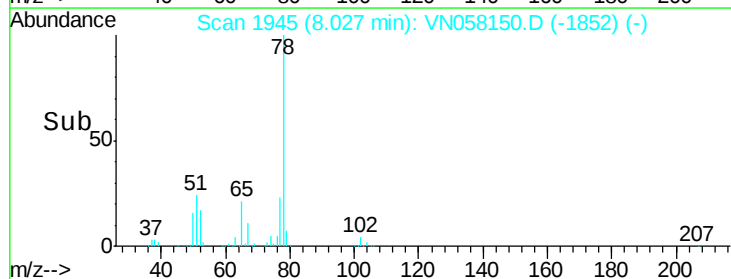
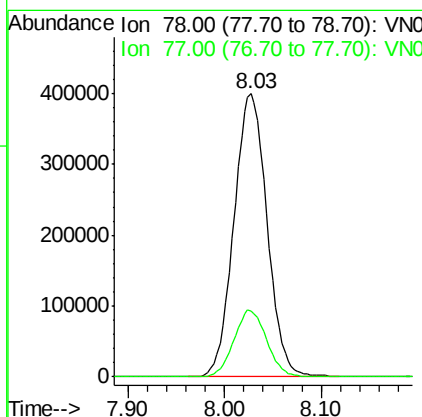
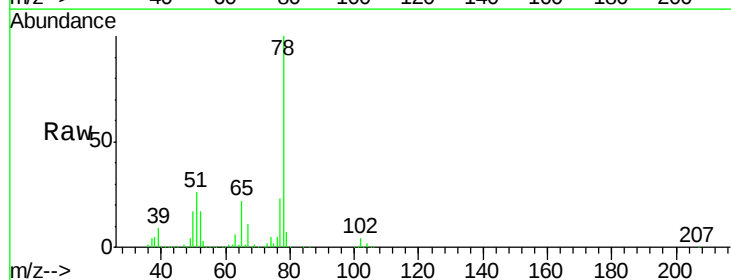
Manual Integrations
APPROVED

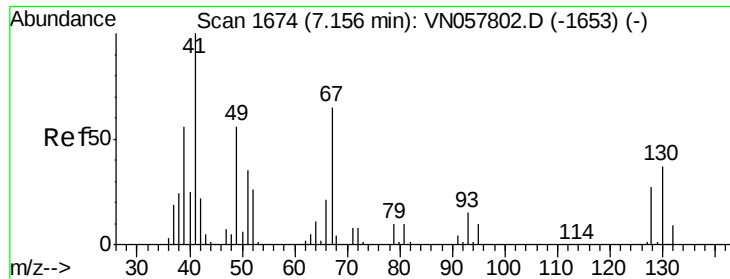
MMDadoda
9/18/2019 4:41:53 PM



#40
Benzene
Concen: 54.230 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.3	27.5





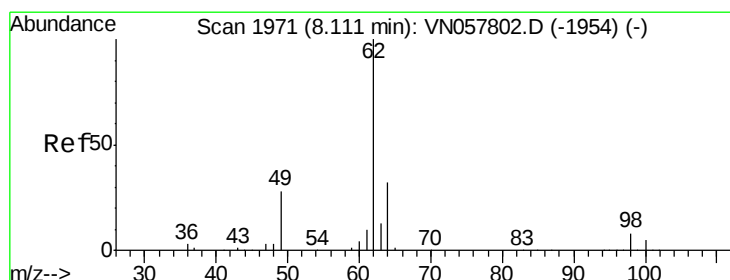
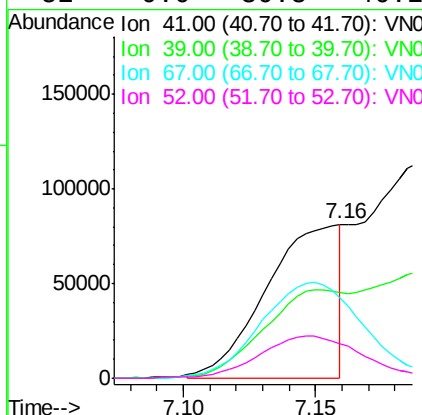
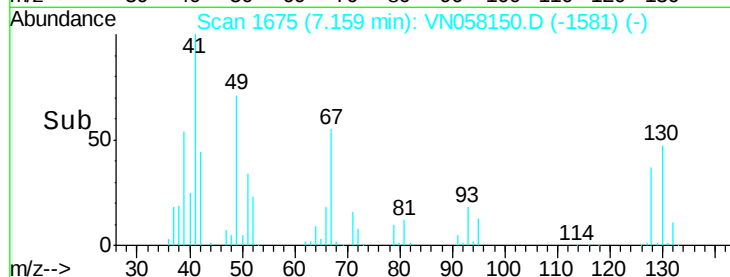
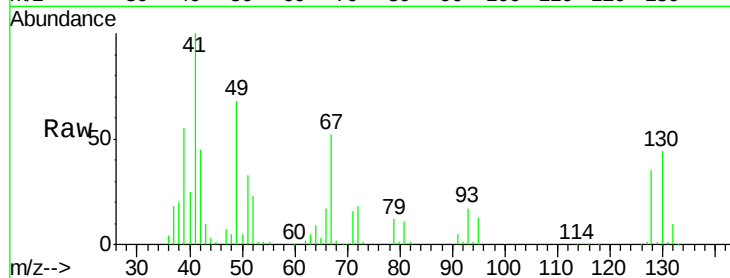
#41
Methacrylonitrile
Concen: 57.702 ug/l m
RT: 7.16 min Scan# 1675
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	51.0	76.6#
67	0.0	70.7	106.1#
52	0.0	30.8	46.2#

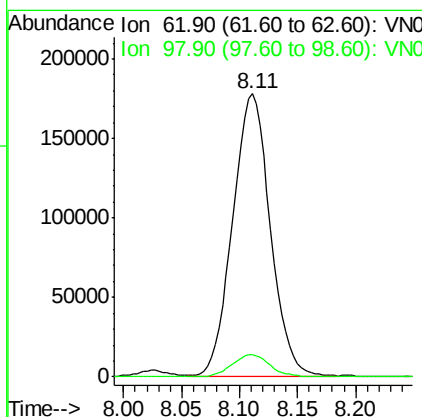
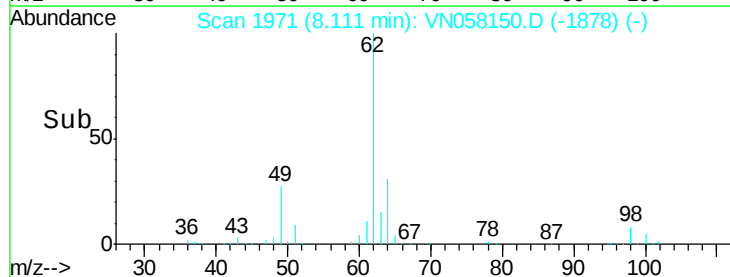
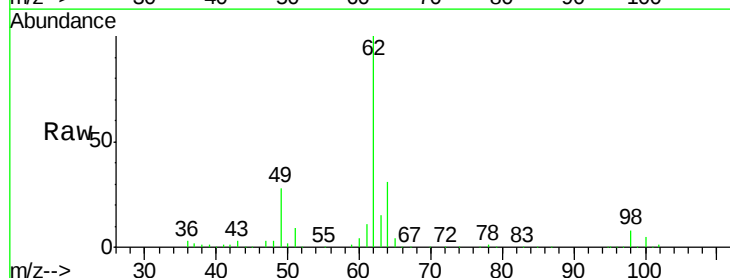
Manual Integrations
APPROVED

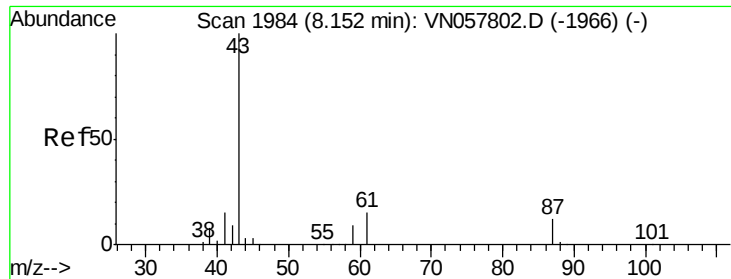
MMDadoda
9/18/2019 4:41:53 PM



#42
1,2-Dichloroethane
Concen: 57.046 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.8





#43

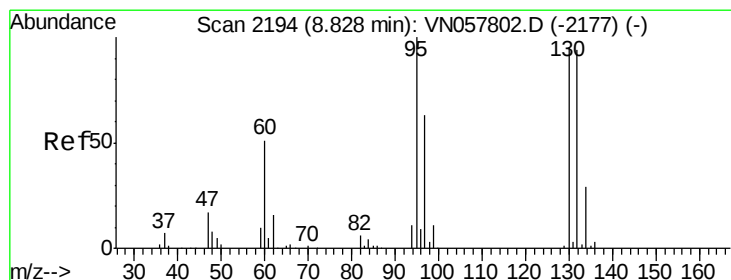
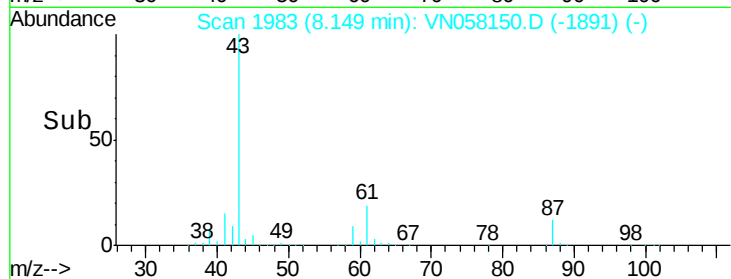
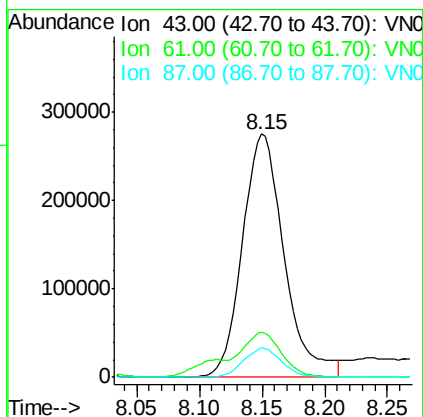
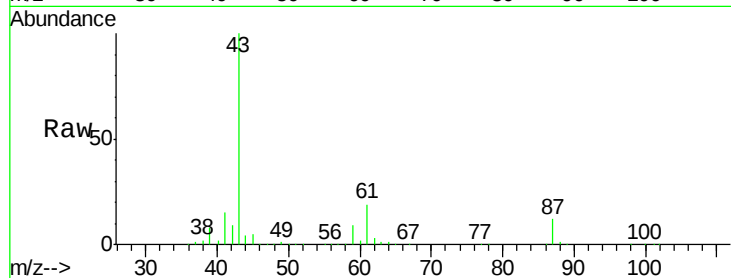
Isopropyl Acetate
 Concen: 62.886 ug/l
 RT: 8.15 min Scan# 1983
 Delta R.T. -0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.2	20.1	30.1#
87	11.3	9.5	14.3

Manual Integrations
 APPROVED

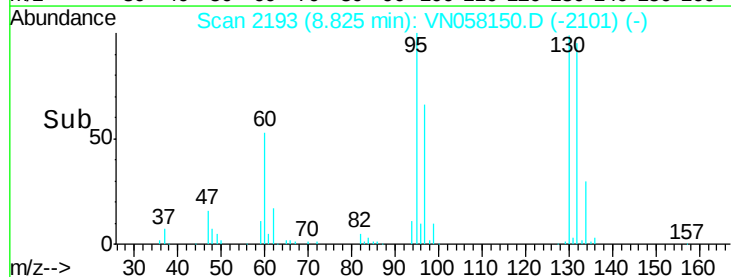
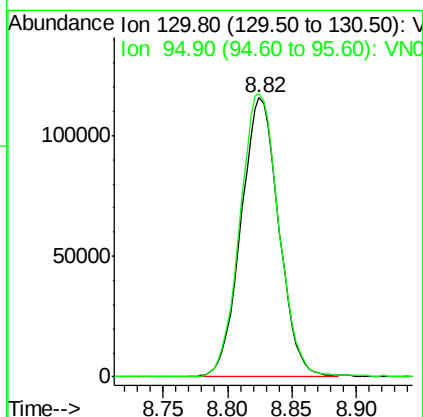
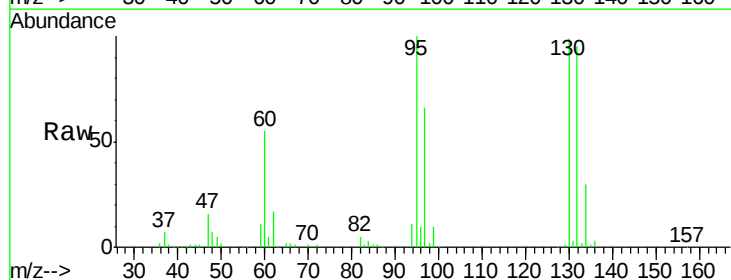
MMDadoda
 9/18/2019 4:41:53 PM

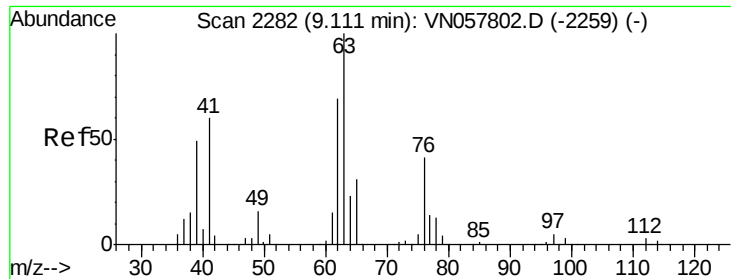


#44

Trichloroethene
 Concen: 54.851 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	211.4





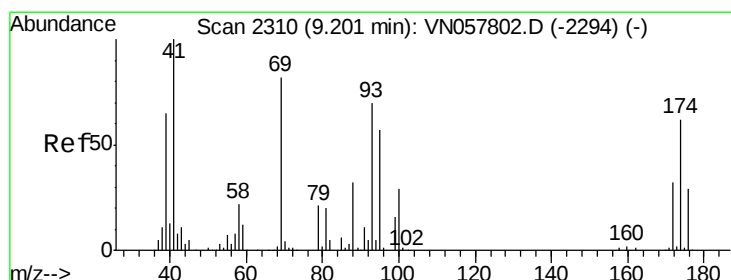
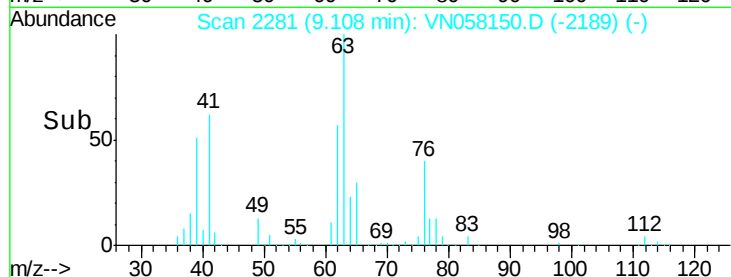
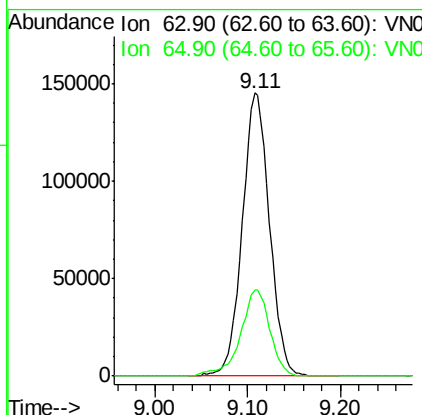
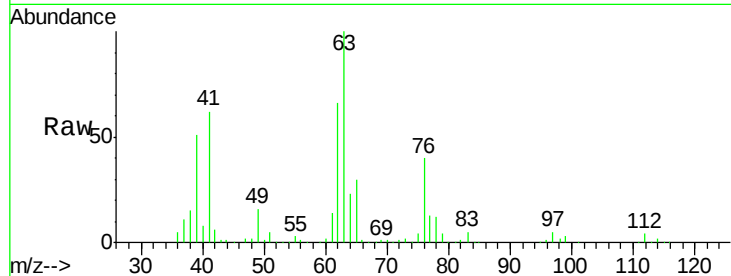
#45
 1,2-Dichloropropane
 Concen: 57.938 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 295916
 Ion Ratio Lower Upper
 63 100
 65 30.3 24.8 37.2

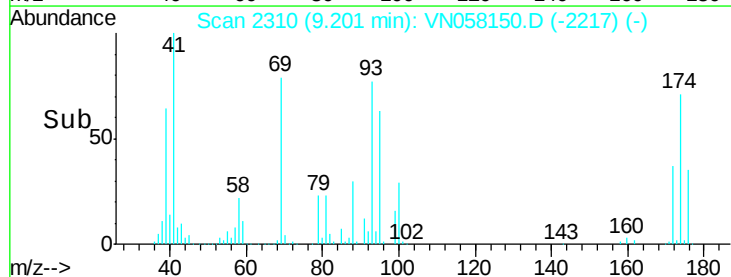
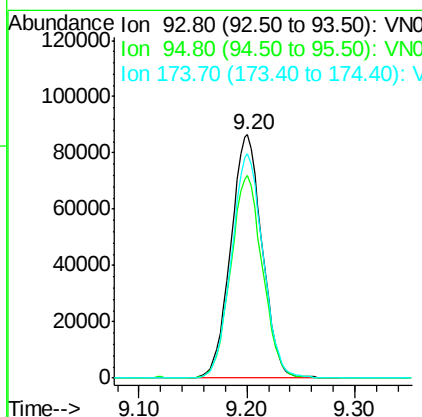
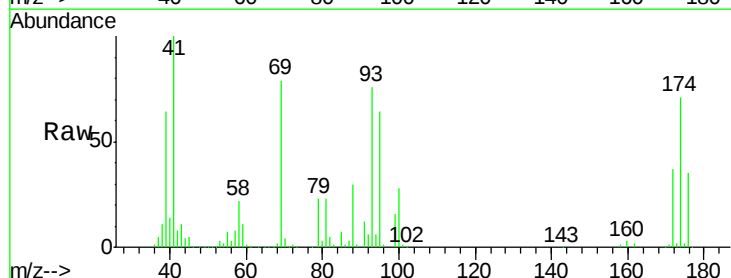
Manual Integrations
 APPROVED

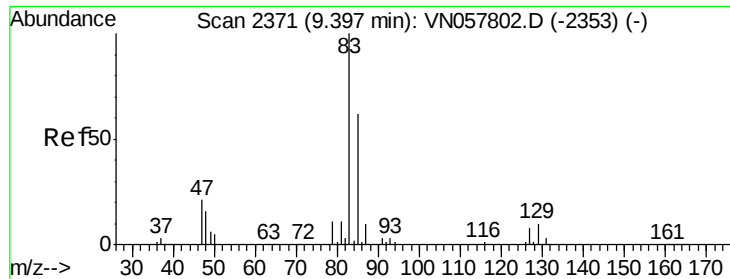
MMDadoda
 9/18/2019 4:41:53 PM



#46
 Dibromomethane
 Concen: 56.846 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Tgt Ion: 93 Resp: 175446
 Ion Ratio Lower Upper
 93 100
 95 84.3 65.9 98.9
 174 92.8 71.8 107.6





#47

Bromodichloromethane

Concen: 61.371 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

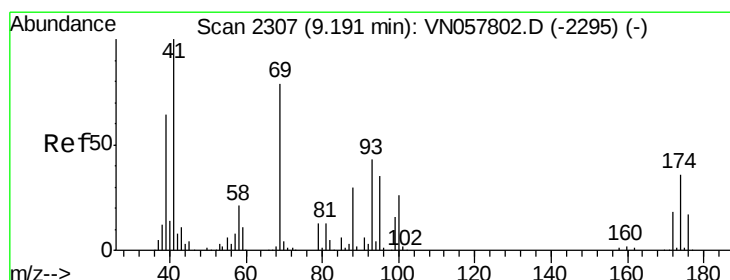
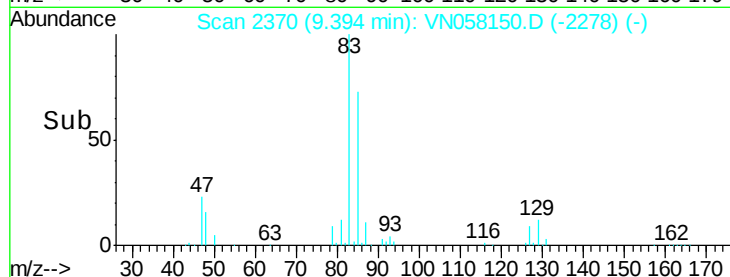
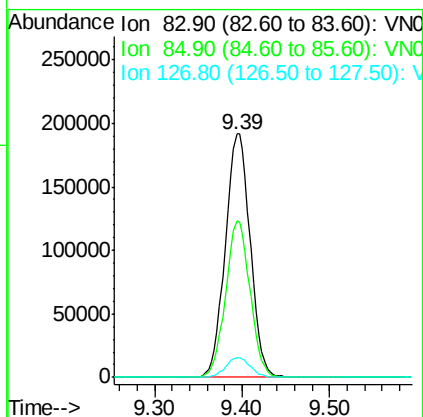
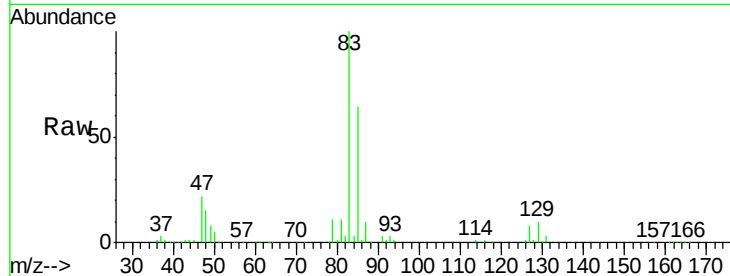
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	378234
Ion Ratio	Lower	Upper	
83	100		
85	64.5	49.9	74.9
127	8.0	6.5	9.7

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#48

Methyl methacrylate

Concen: 57.364 ug/l

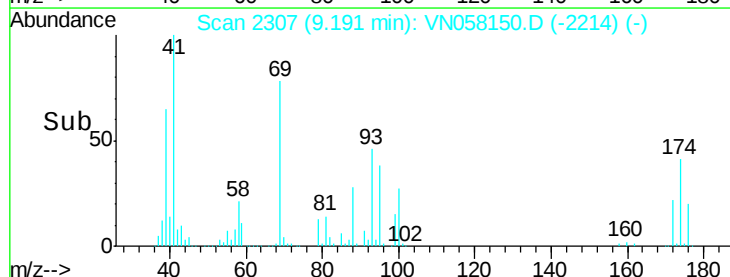
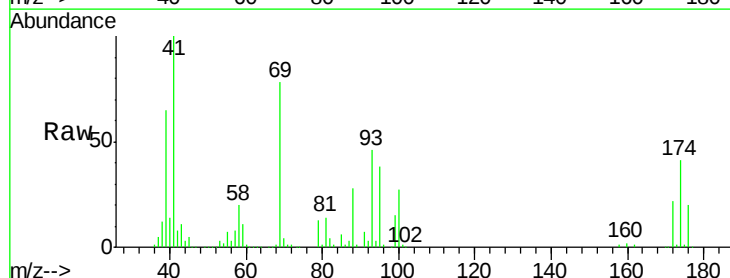
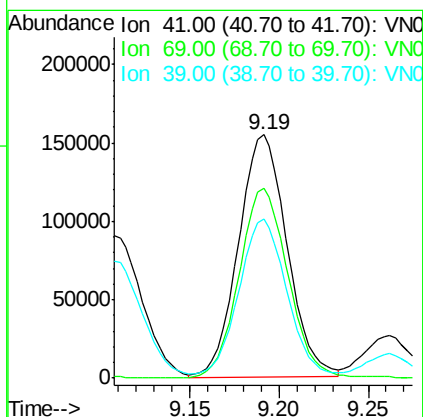
RT: 9.19 min Scan# 2307

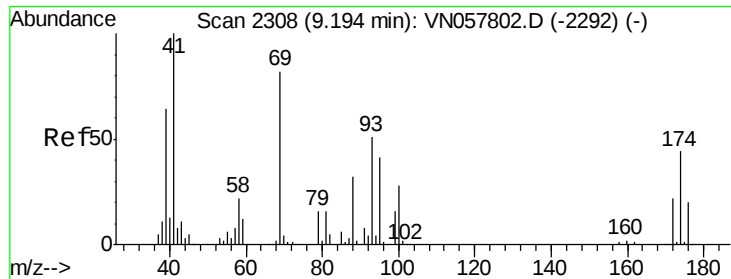
Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion:	41	Resp:	294761
Ion Ratio	Lower	Upper	
41	100		
69	78.6	62.7	94.1
39	64.6	52.7	79.1





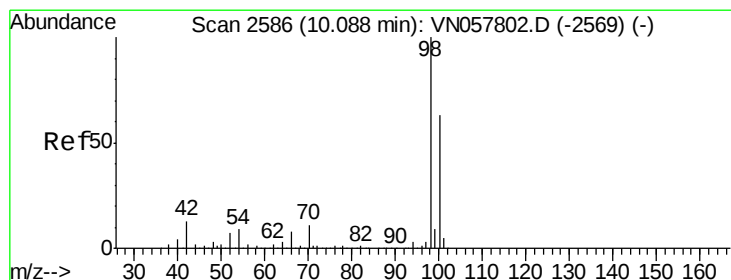
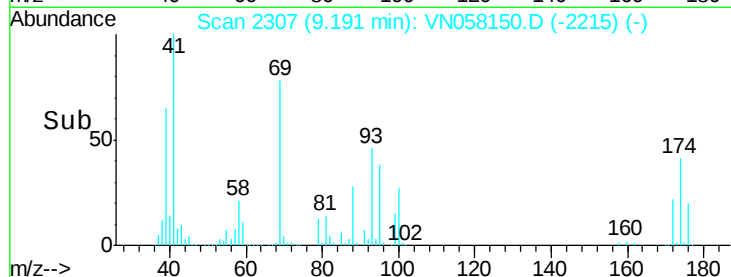
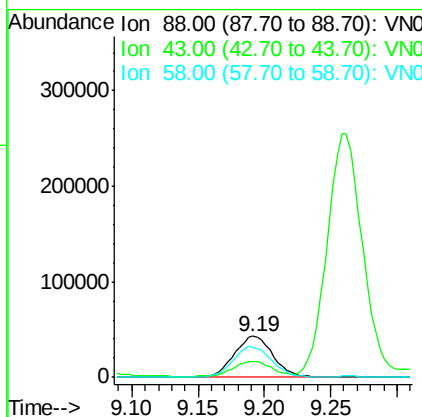
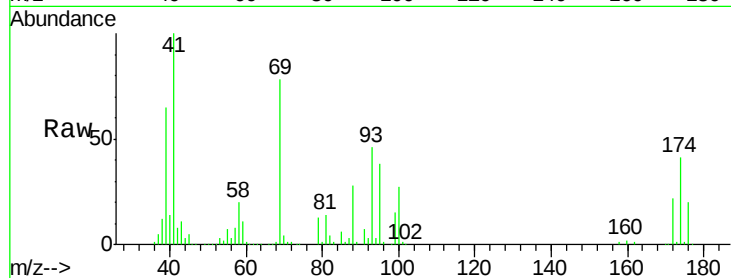
#49
1,4-Dioxane
Concen: 1007.464 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	88	Resp	87544
Ion	Ratio	Lower	Upper
88	100		
43	37.1	28.5	42.7
58	75.3	55.8	83.6

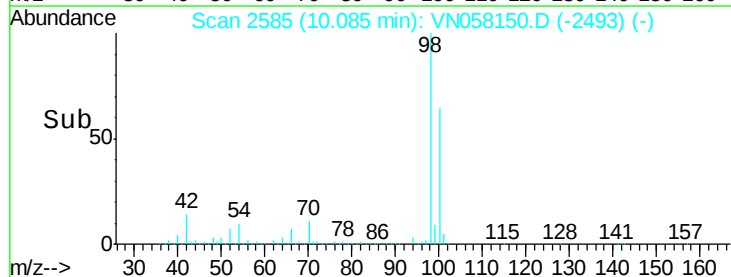
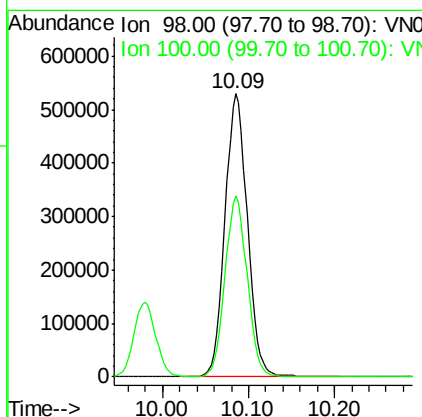
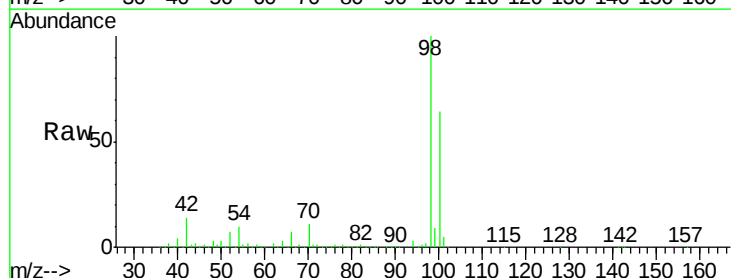
Manual Integrations
APPROVED

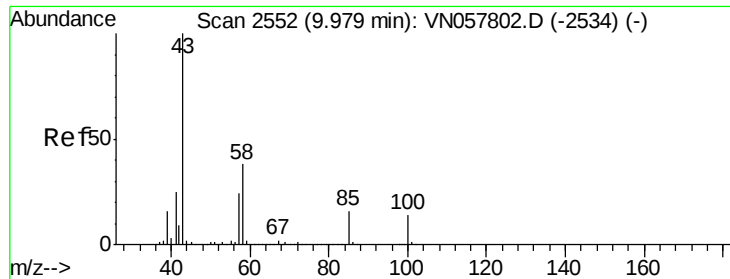
MMDadoda
9/18/2019 4:41:53 PM



#50
Toluene-d8
Concen: 53.405 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	98	Resp	962043
Ion	Ratio	Lower	Upper
98	100		
100	63.2	50.3	75.5





#51

4-Methyl-2-Pentanone

Concen: 308.316 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1848175

Ion Ratio Lower Upper

43 100

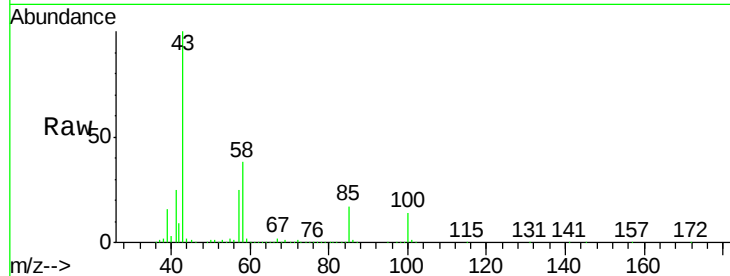
58 37.3 29.8 44.6

Manual Integrations

APPROVED

MMDadoda

9/18/2019 4:41:53 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1200000

1000000

800000

600000

400000

200000

0

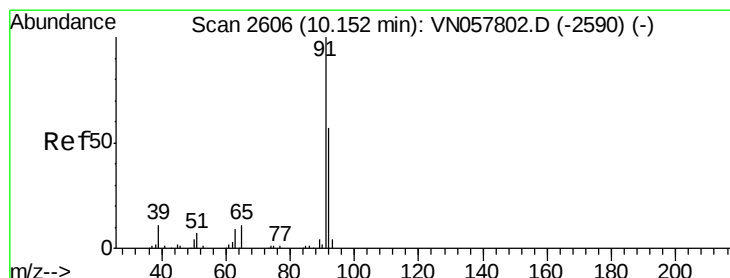
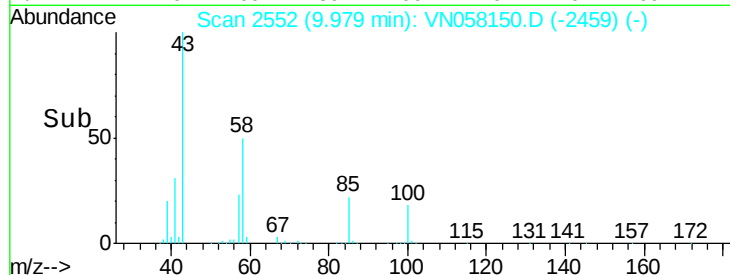
9.90

9.98

10.00

10.10

Time-->



#52

Toluene

Concen: 55.483 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058150.D

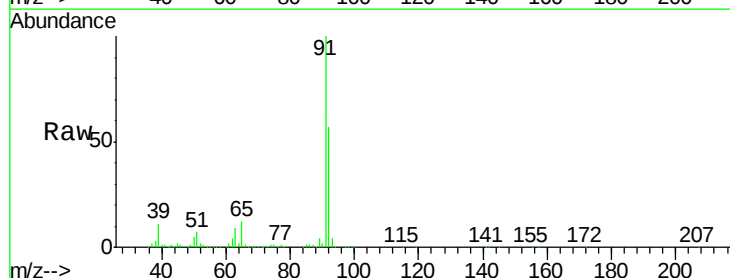
Acq: 17 Sep 2019 15:28

Tgt Ion: 92 Resp: 613370

Ion Ratio Lower Upper

92 100

91 177.1 141.0 211.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

600000

400000

200000

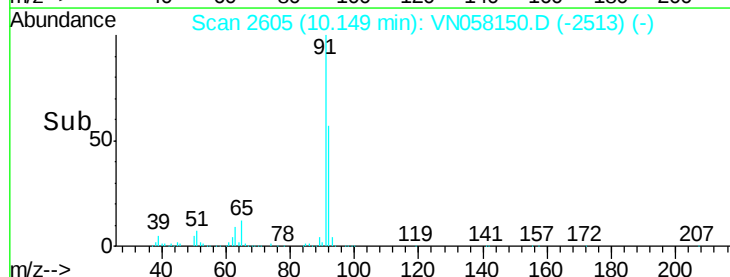
0

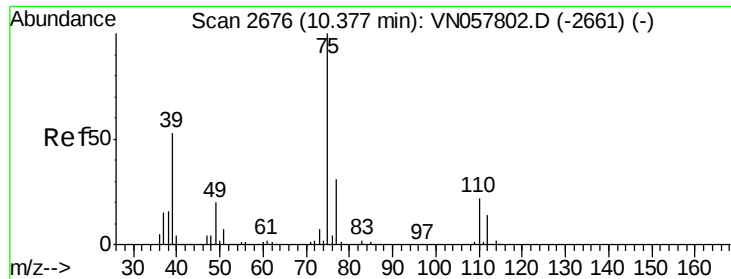
10.10

10.15

10.20

Time-->





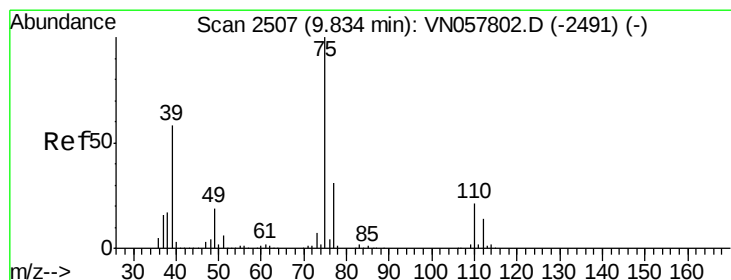
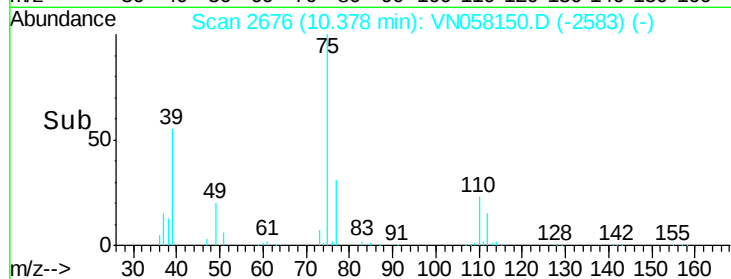
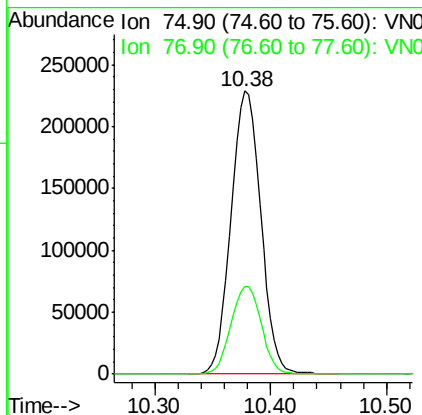
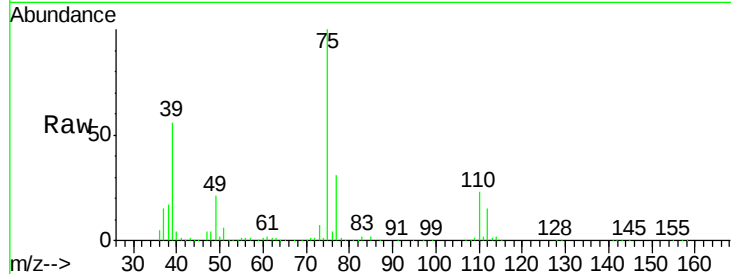
#53
t-1,3-Dichloropropene
Concen: 62.596 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 75 Resp: 406254
Ion Ratio Lower Upper
75 100
77 30.9 24.5 36.7

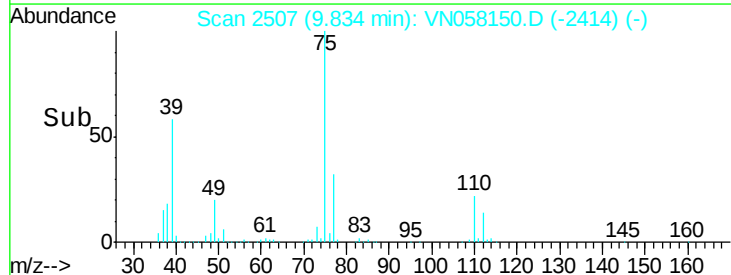
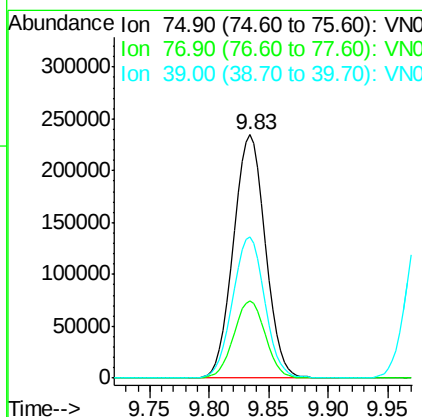
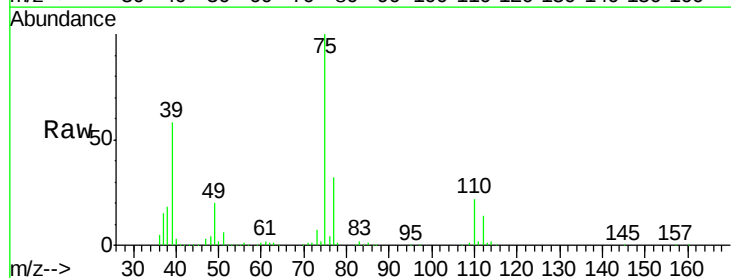
Manual Integrations
APPROVED

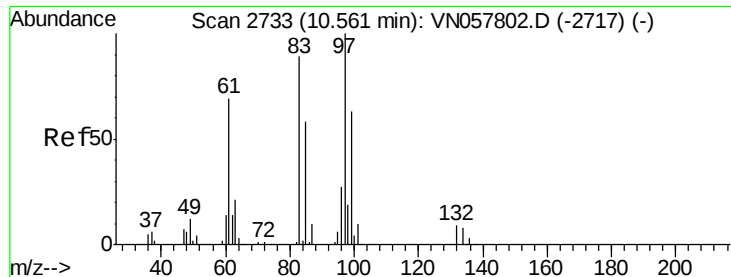
MMDadoda
9/18/2019 4:41:53 PM



#54
cis-1,3-Dichloropropene
Concen: 61.088 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion: 75 Resp: 437723
Ion Ratio Lower Upper
75 100
77 31.6 24.8 37.2
39 57.7 46.2 69.4





#55

1,1,2-Trichloroethane

Concen: 59.685 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

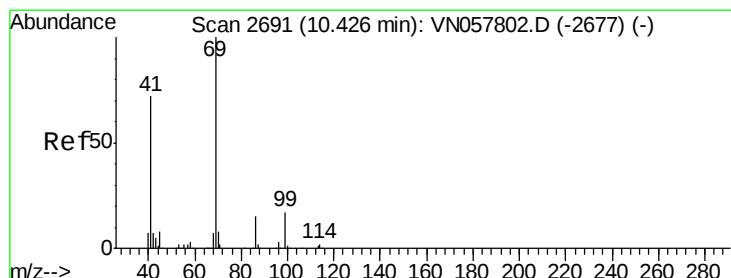
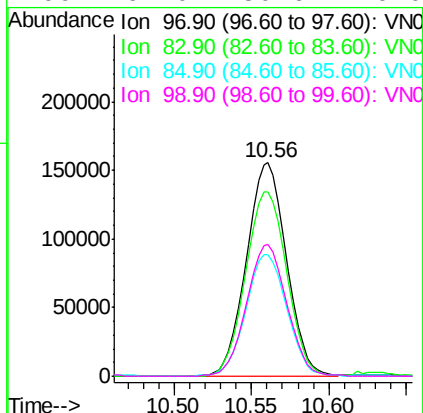
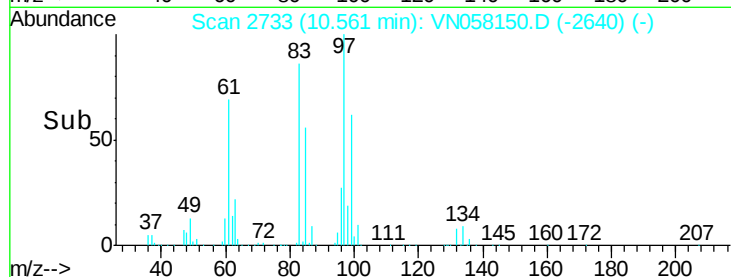
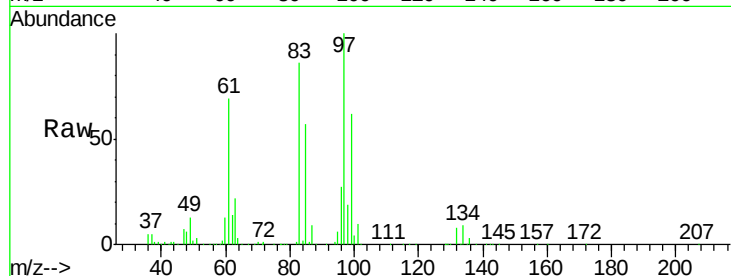
ClientSampleId :

VSTDCCC050EC

Tot Ion:	97	Resp:	279495
Ion	Ratio	Lower	Upper
97	100		
83	86.5	70.8	106.2
85	56.5	46.0	69.0
99	62.0	50.6	76.0

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#56

Ethyl methacrylate

Concen: 60.609 ug/l

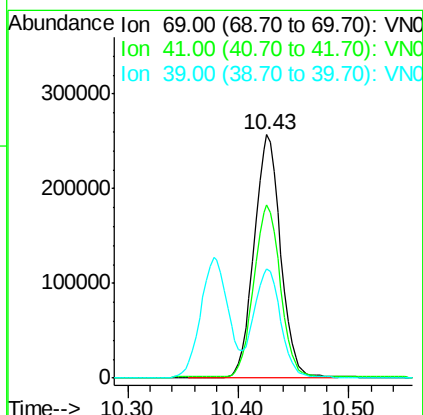
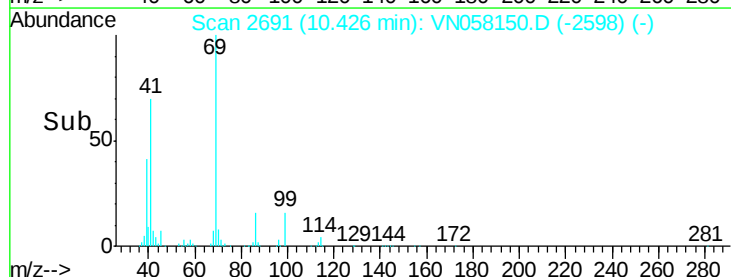
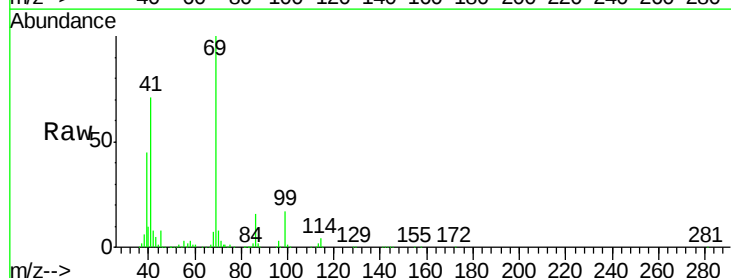
RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion:	69	Resp:	427403
Ion	Ratio	Lower	Upper
69	100		
41	70.3	56.7	85.1
39	45.2	36.3	54.5





#57

1,3-Dichloropropane

Concen: 58.553 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 472536

Ion Ratio Lower Upper

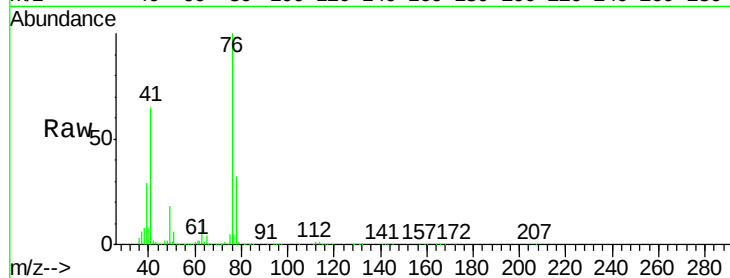
76 100

78 32.1 25.4 38.2

Manual Integrations
APPROVED

MMDadoda

9/18/2019 4:41:53 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

250000

200000

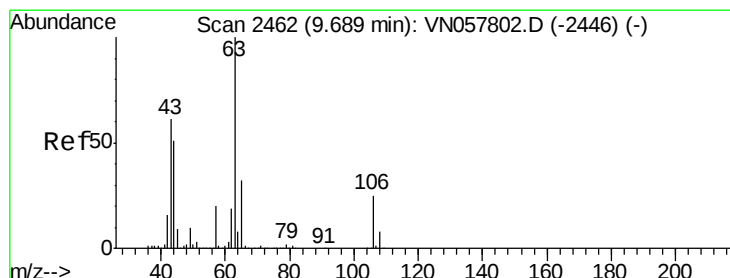
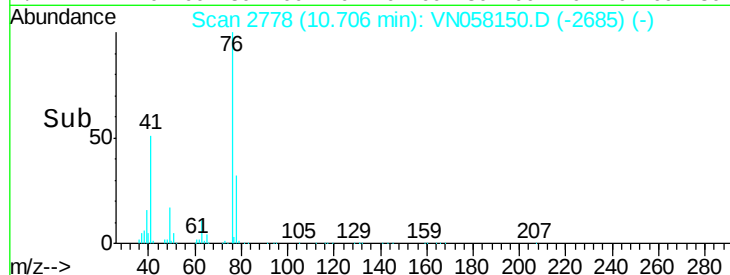
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 265.831 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN058150.D

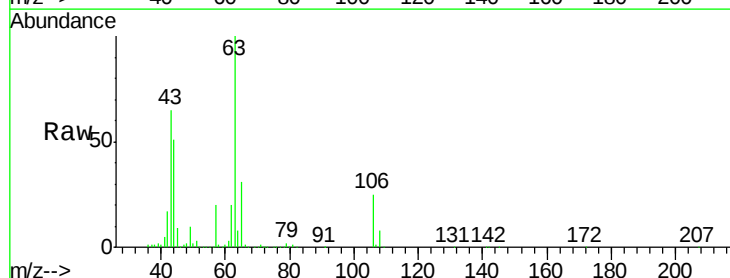
Acq: 17 Sep 2019 15:28

Tgt Ion: 63 Resp: 882922

Ion Ratio Lower Upper

63 100

106 25.1 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.69

500000

400000

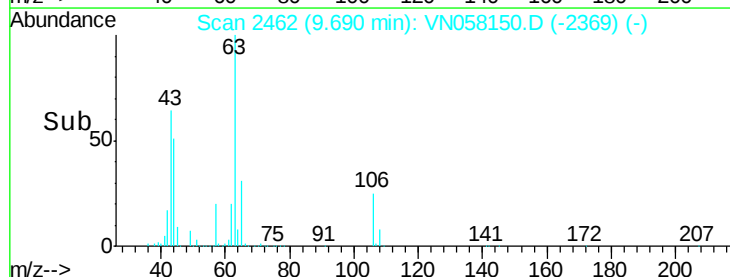
300000

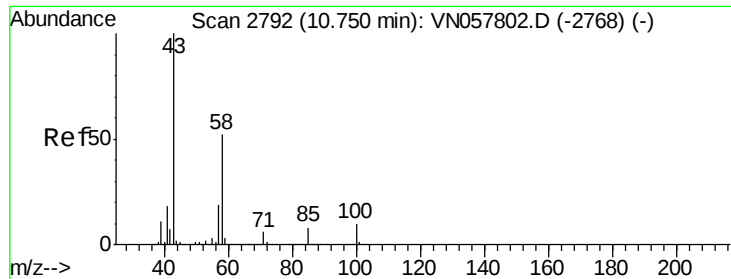
200000

100000

0

Time--> 9.60 9.70 9.80





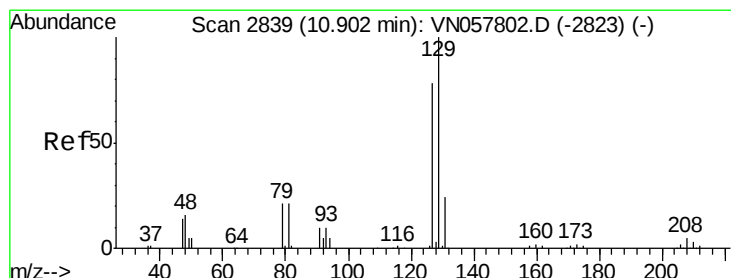
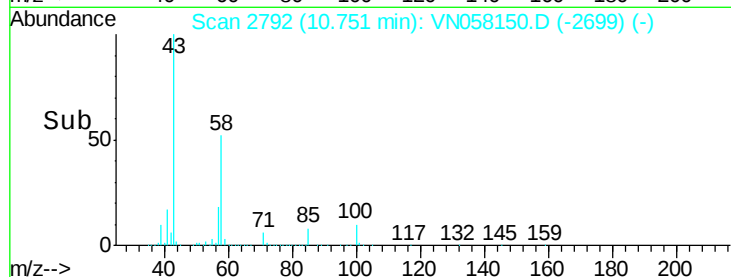
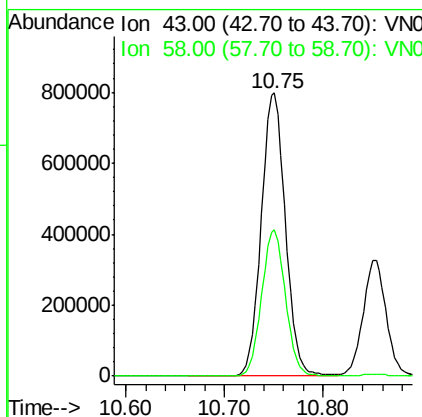
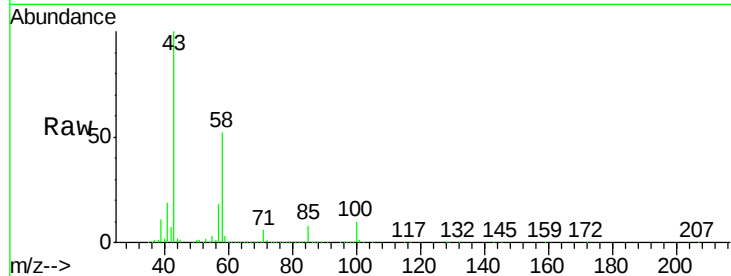
#59
2-Hexanone
Concen: 298.296 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1340260
Ion Ratio Lower Upper
43 100
58 51.2 25.6 76.8

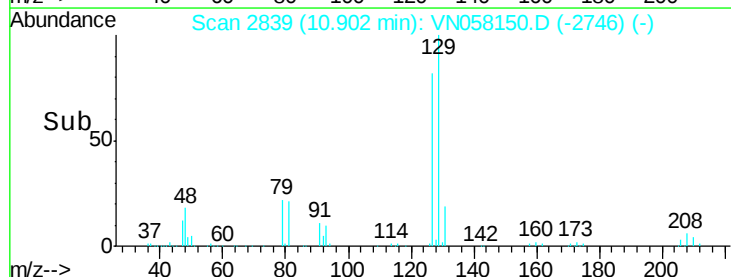
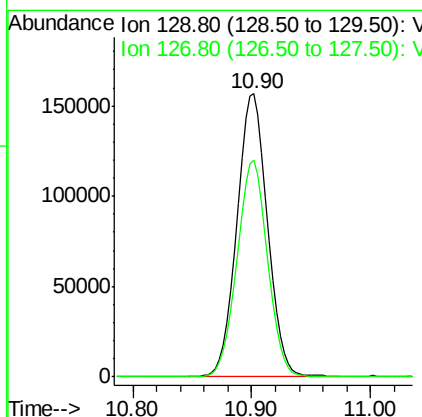
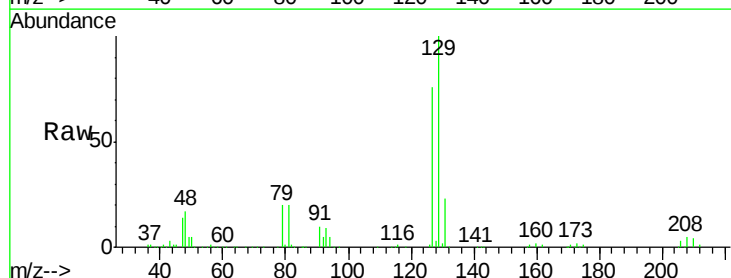
Manual Integrations
APPROVED

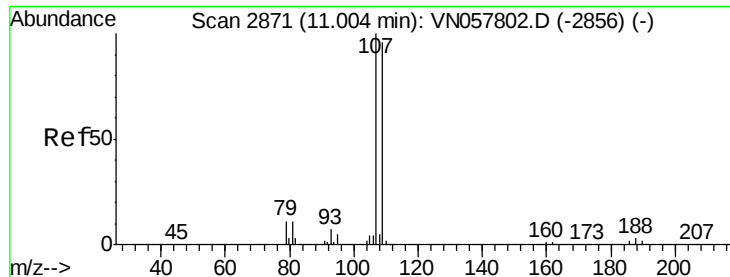
MMDadoda
9/18/2019 4:41:53 PM



#60
Dibromochloromethane
Concen: 63.928 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion: 129 Resp: 277987
Ion Ratio Lower Upper
129 100
127 76.4 38.6 116.0





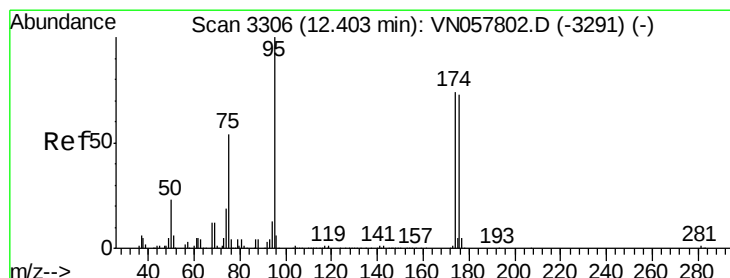
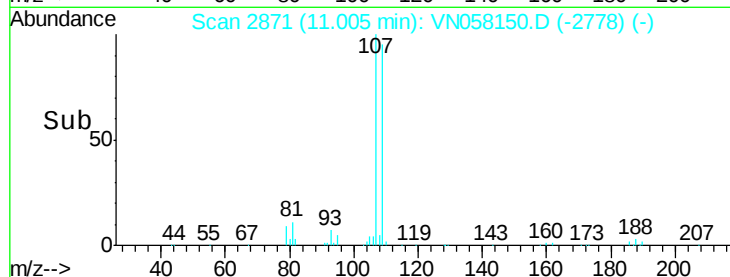
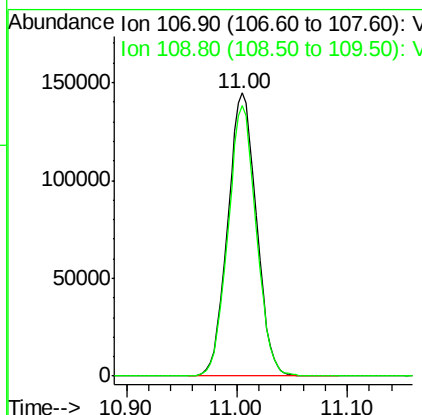
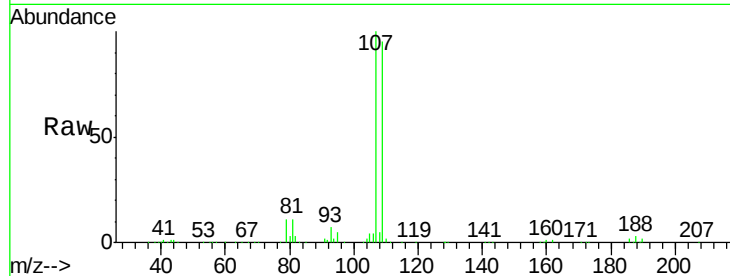
#61
 1,2-Dibromoethane
 Concen: 59.019 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.3	112.9

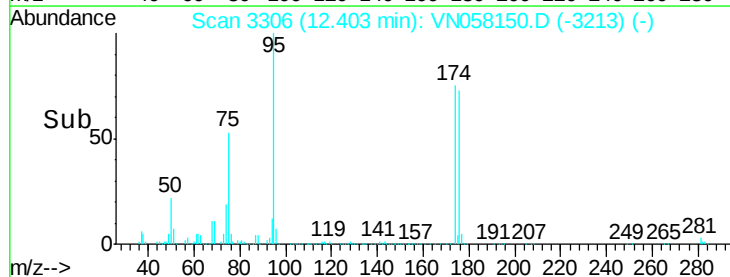
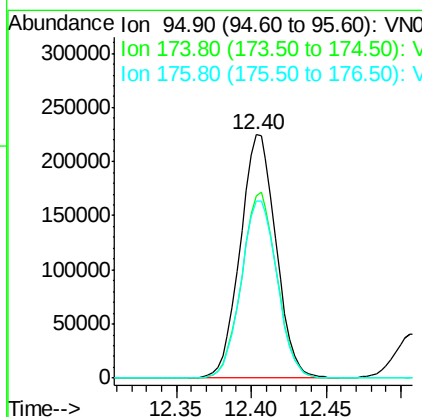
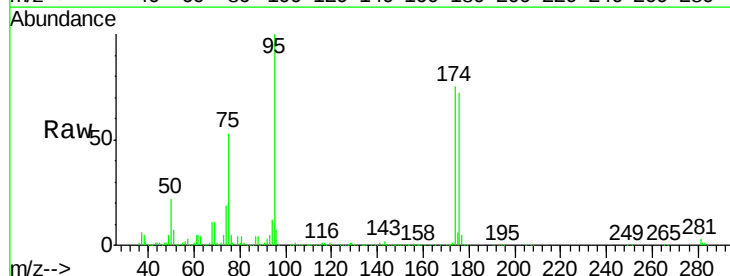
Manual Integrations
 APPROVED

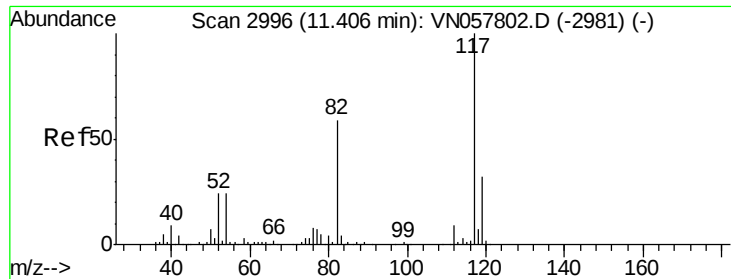
MMDadoda
 9/18/2019 4:41:53 PM



#62
 4-Bromofluorobenzene
 Concen: 54.202 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	150.2
176	73.8	0.0	146.0





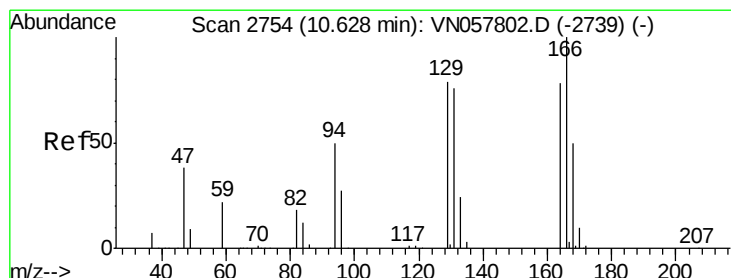
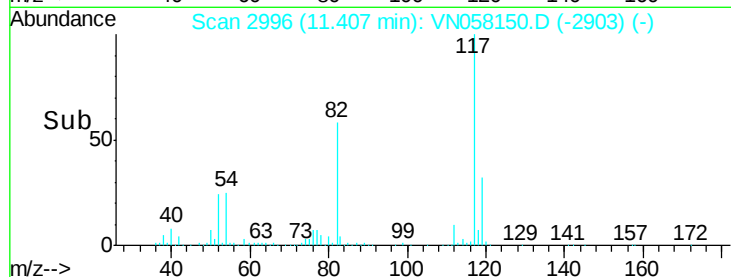
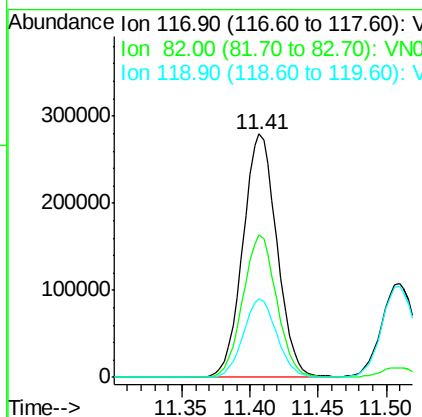
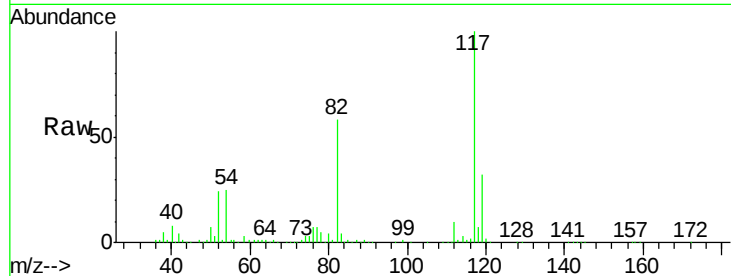
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.2	47.2	70.8
119	32.2	25.3	37.9

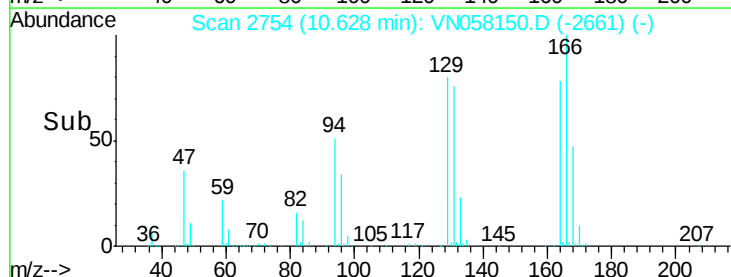
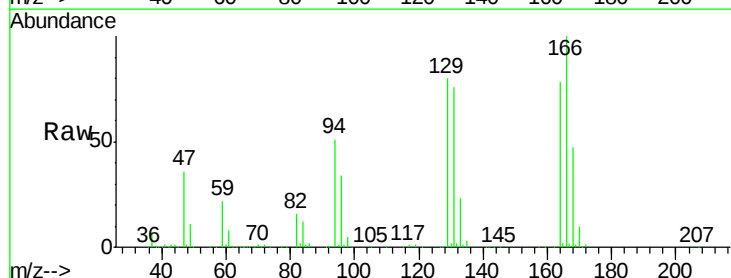
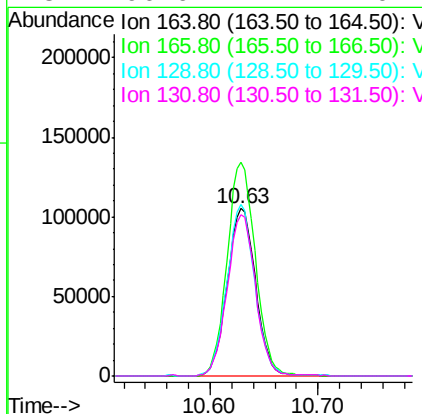
Manual Integrations
APPROVED

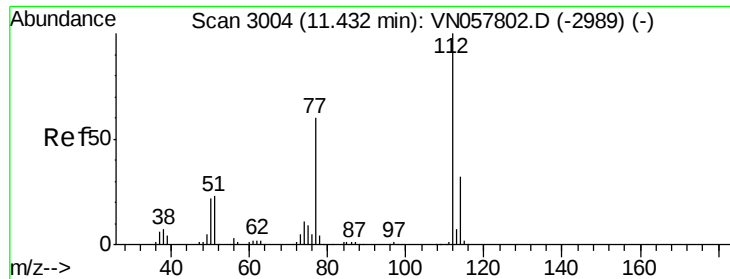
MMDadoda
9/18/2019 4:41:53 PM



#64
Tetrachloroethene
Concen: 54.048 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.7	102.2	153.2
129	102.4	80.8	121.2
131	96.6	77.4	116.2





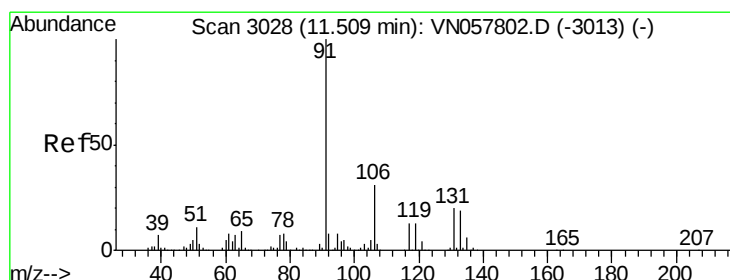
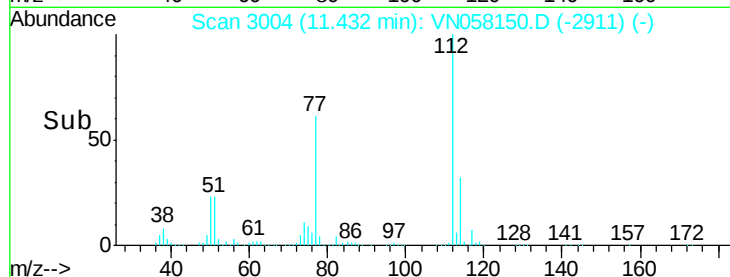
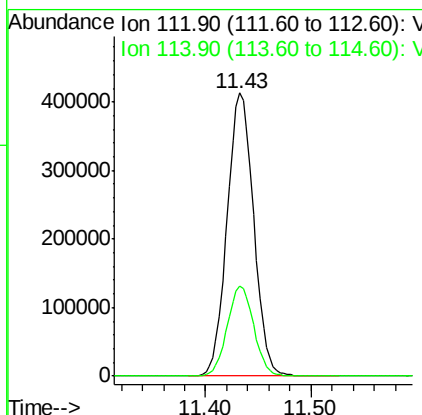
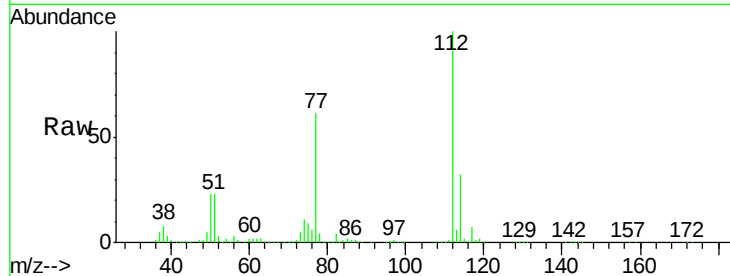
#65
Chlorobenzene
Concen: 56.861 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 719933
Ion Ratio Lower Upper
112 100
114 31.7 25.2 37.8

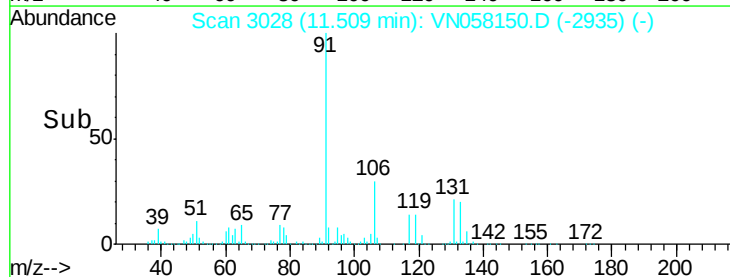
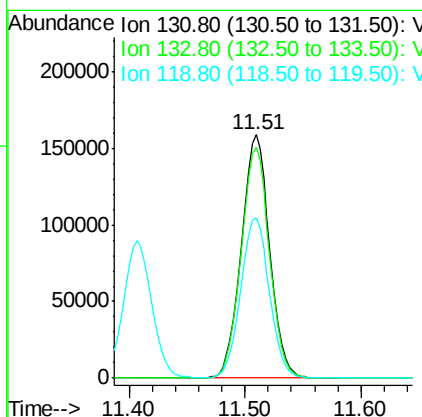
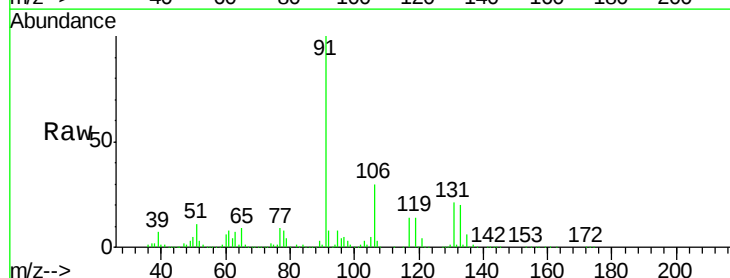
Manual Integrations
APPROVED

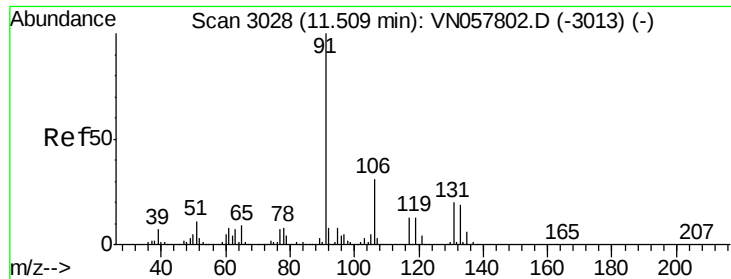
MMDadoda
9/18/2019 4:41:53 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 61.183 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion:131 Resp: 268799
Ion Ratio Lower Upper
131 100
133 95.0 47.1 141.3
119 66.8 33.3 99.8





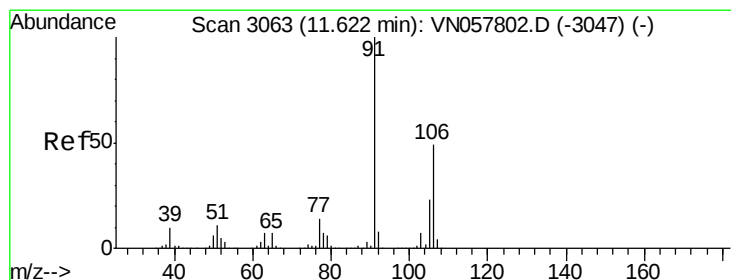
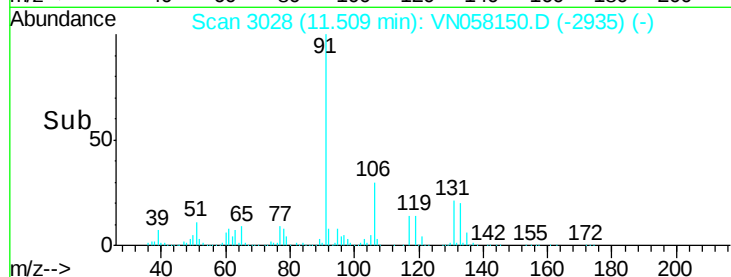
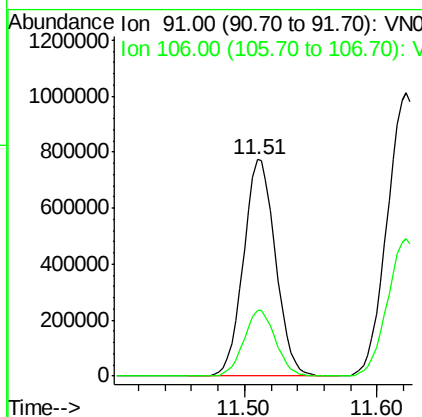
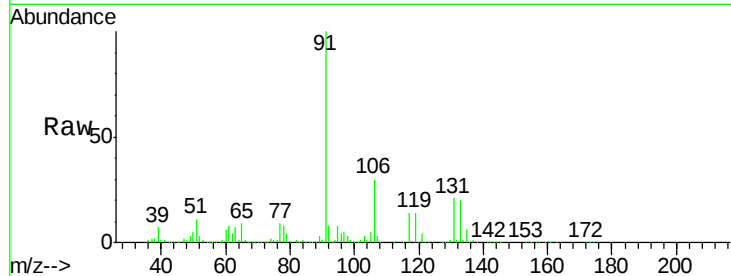
#67
Ethyl Benzene
Concen: 58.390 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1295633
Ion Ratio Lower Upper
91 100
106 30.3 24.4 36.6

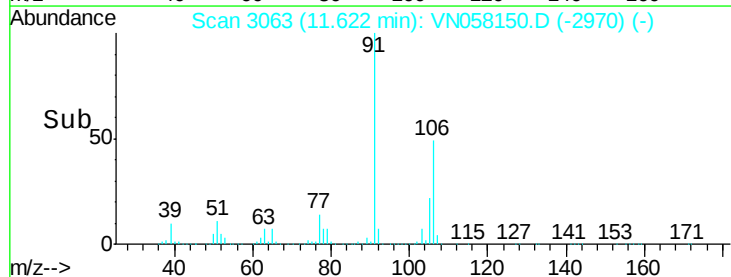
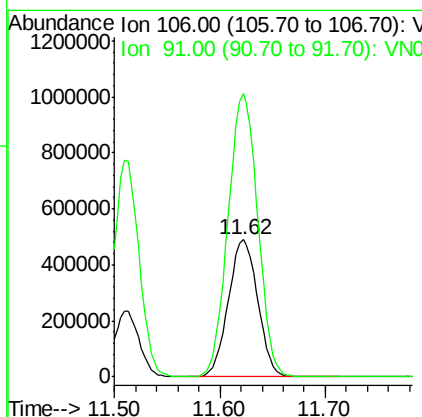
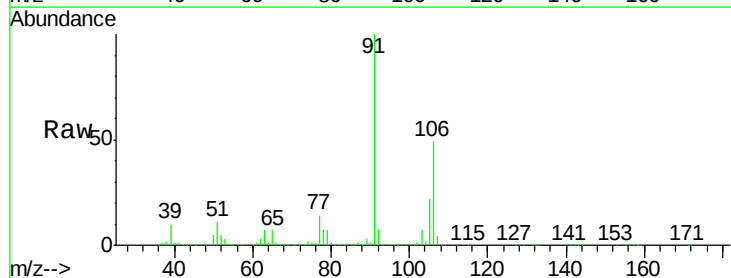
Manual Integrations
APPROVED

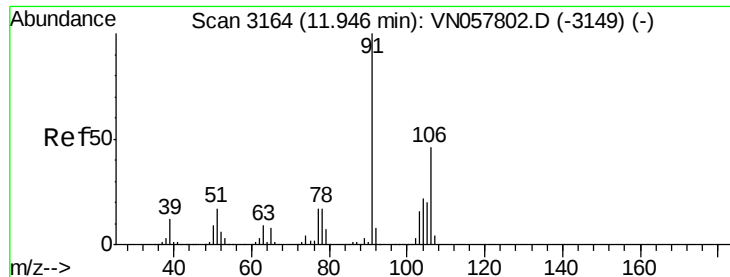
MMDadoda
9/18/2019 4:41:53 PM



#68
m/p-Xylenes
Concen: 116.290 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion: 106 Resp: 945200
Ion Ratio Lower Upper
106 100
91 208.1 165.8 248.6





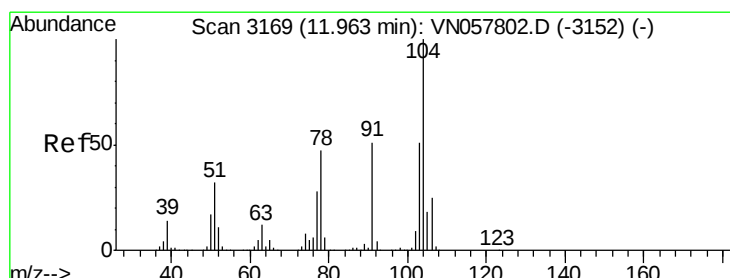
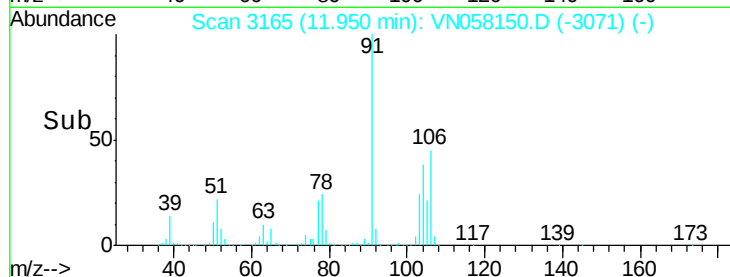
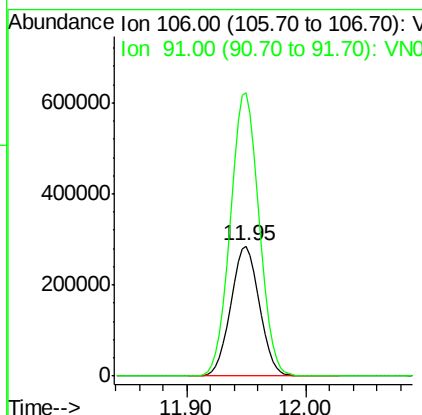
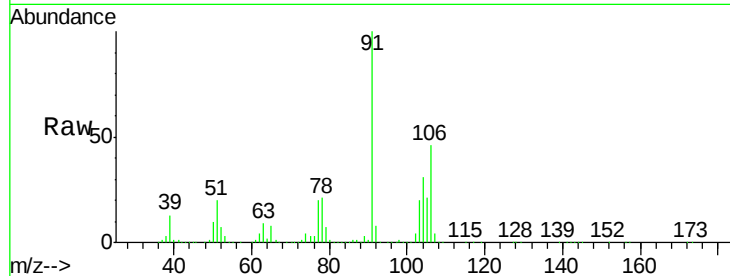
#69
o-Xylene
Concen: 58.890 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 475855
Ion Ratio Lower Upper
106 100
91 218.1 108.7 326.1

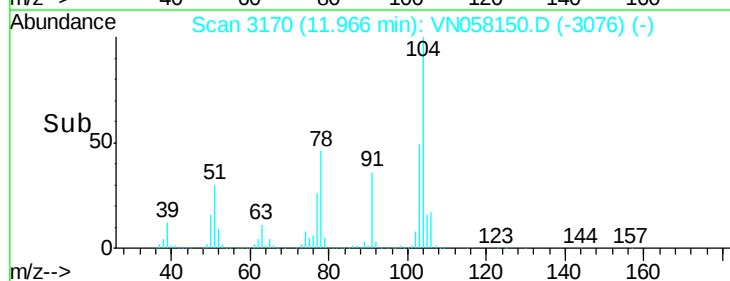
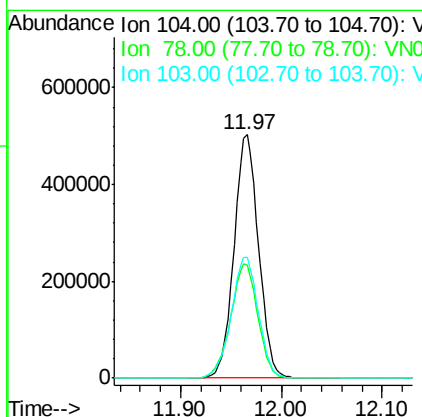
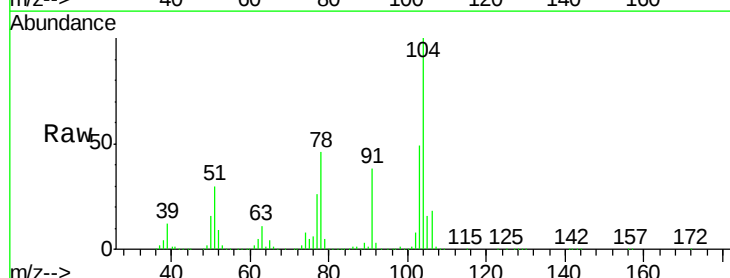
Manual Integrations
APPROVED

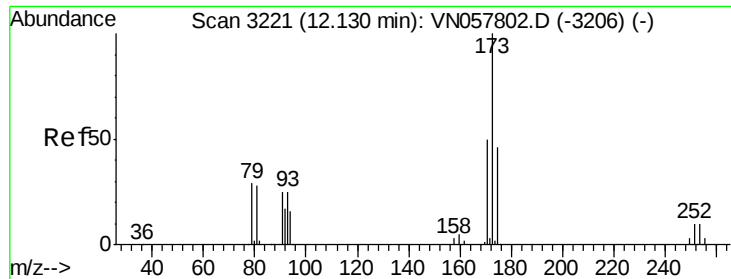
MMDadoda
9/18/2019 4:41:53 PM



#70
Styrene
Concen: 61.127 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion:104 Resp: 850042
Ion Ratio Lower Upper
104 100
78 52.0 41.3 61.9
103 54.7 43.7 65.5





#71

Bromoform

Concen: 65.278 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 178804

Ion Ratio Lower Upper

173 100

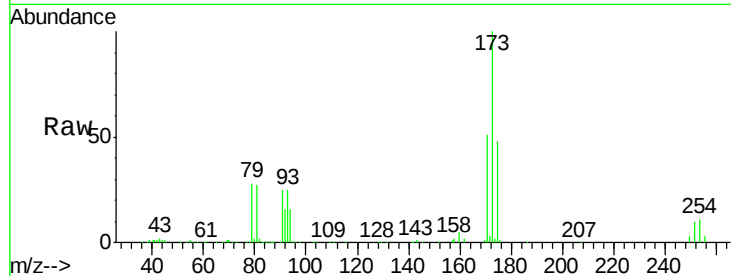
175 47.6 23.5 70.6

254 0.0 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda

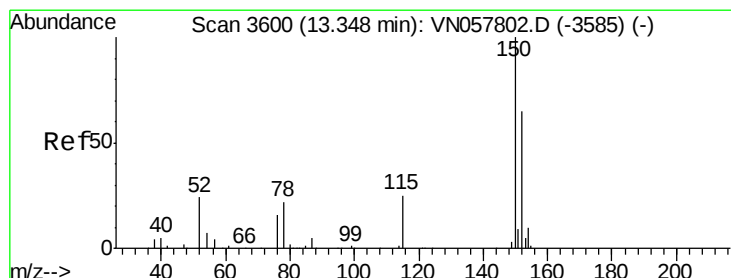
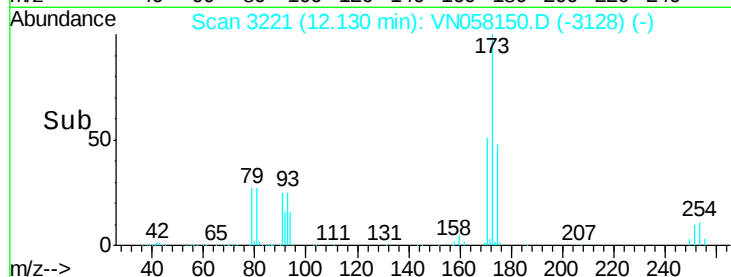
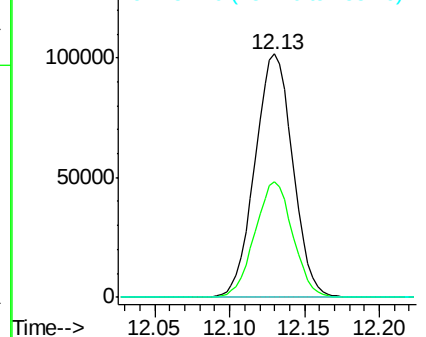
9/18/2019 4:41:53 PM



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# 3600

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

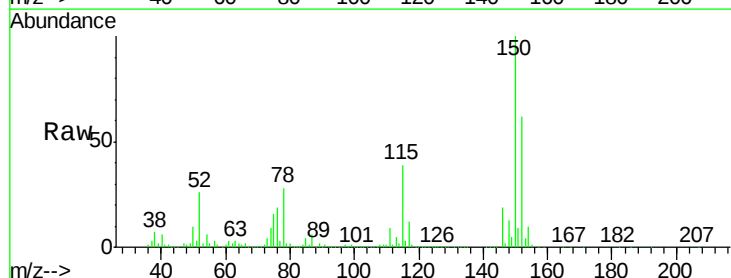
Tgt Ion:152 Resp: 303888

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

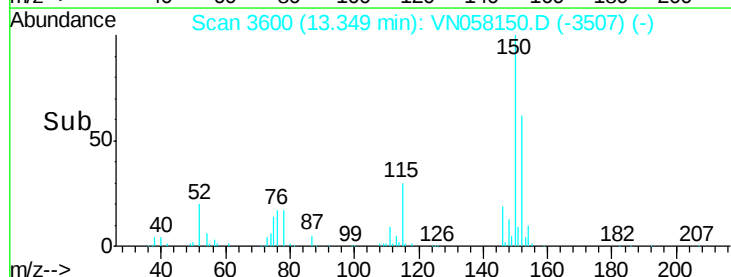
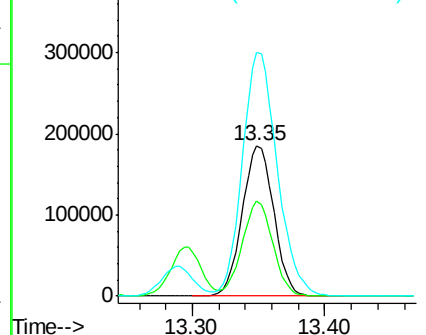
150 179.5 0.0 352.4

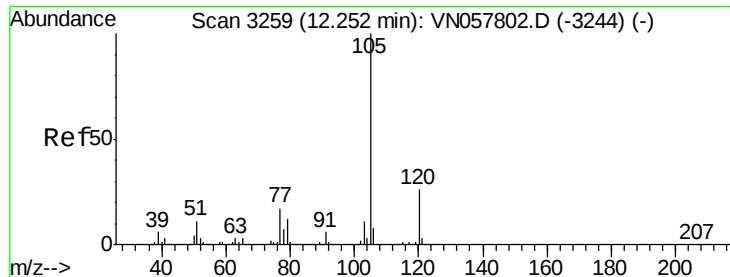


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 56.639 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1335585

Ion Ratio Lower Upper

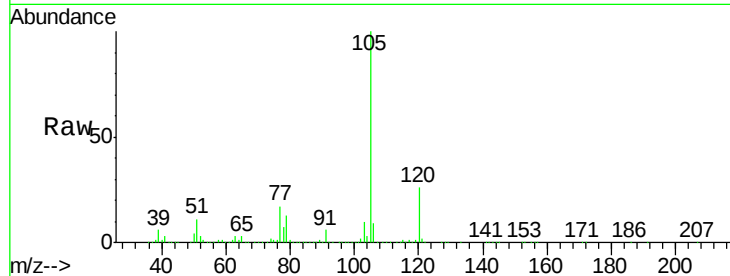
105 100

120 25.7 12.8 38.4

Manual Integrations
APPROVED

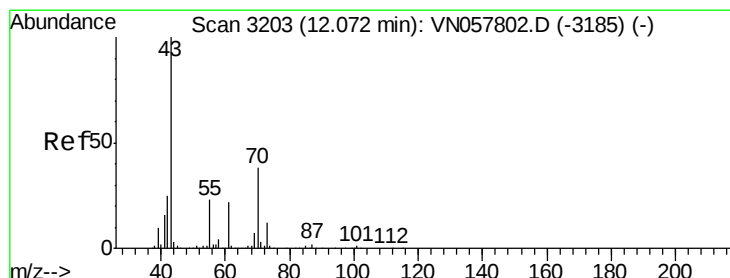
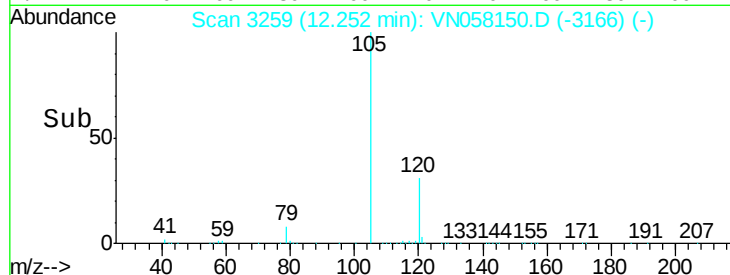
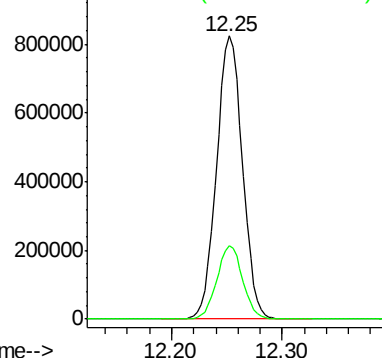
MMDadoda

9/18/2019 4:41:53 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 56.723 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion: 43 Resp: 582113

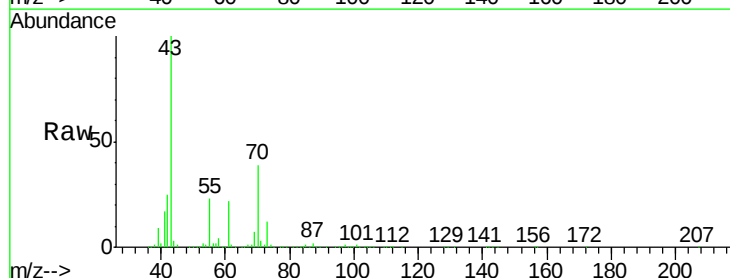
Ion Ratio Lower Upper

43 100

70 38.8 30.6 45.8

55 23.4 18.6 27.8

61 22.4 17.4 26.2

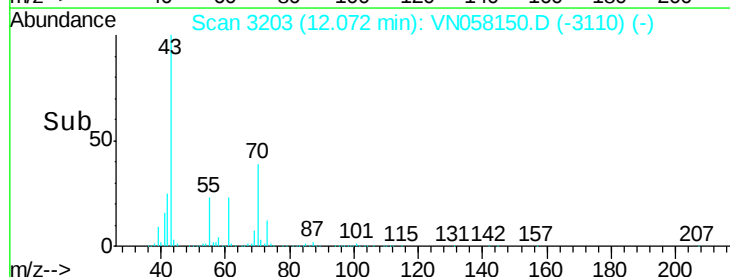
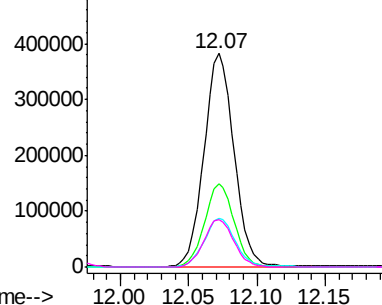


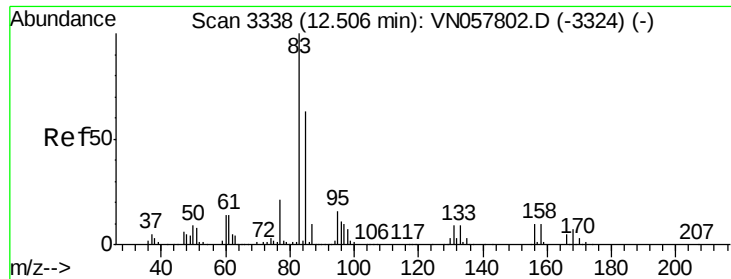
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 54.638 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

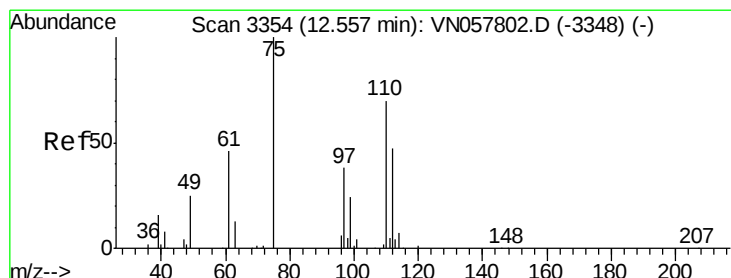
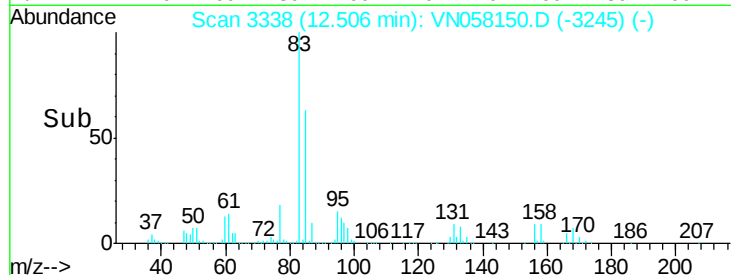
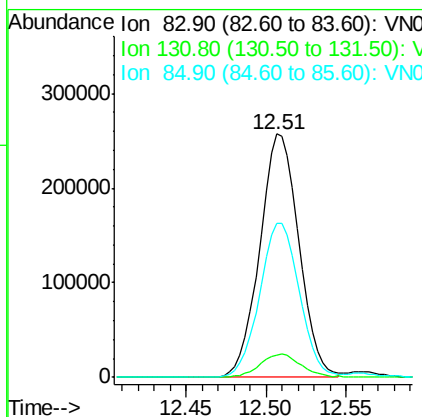
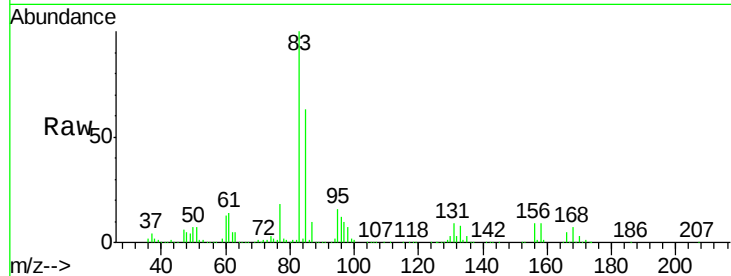
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	433802
Ion Ratio	Lower	Upper	
83	100		
131	10.1	4.8	14.3
85	64.6	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#76

1,2,3-Trichloropropane

Concen: 56.292 ug/l m

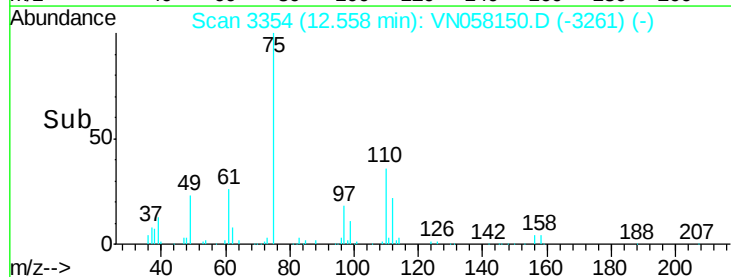
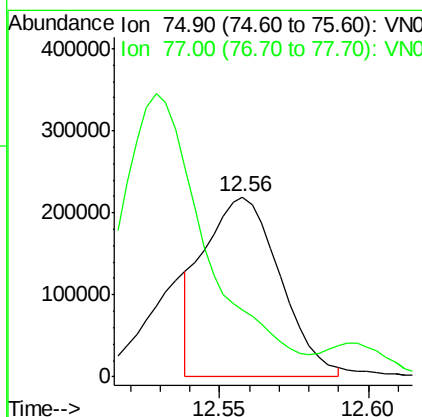
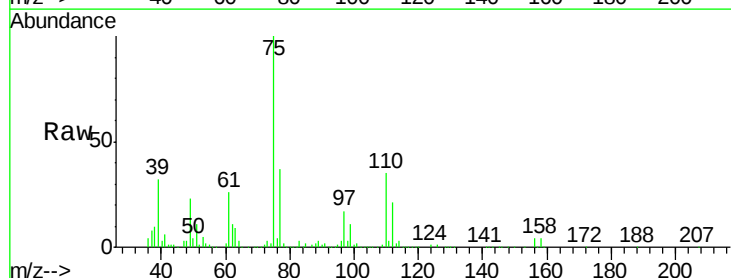
RT: 12.56 min Scan# 3354

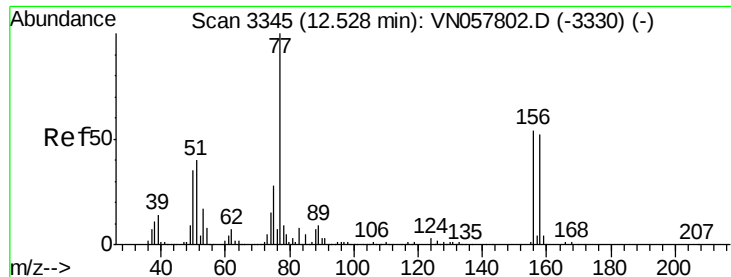
Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion:	75	Resp:	386980
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 53.506 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

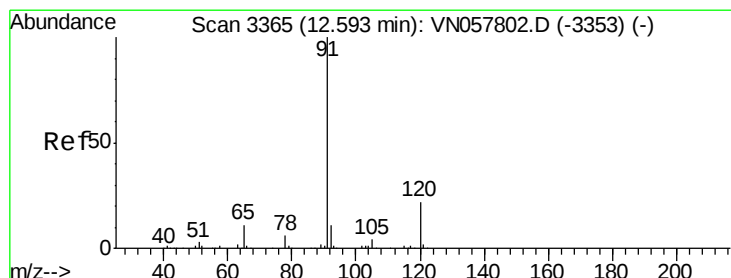
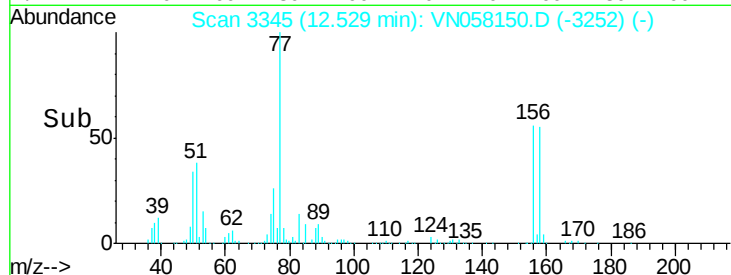
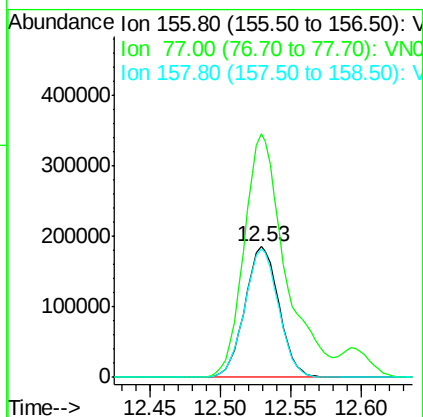
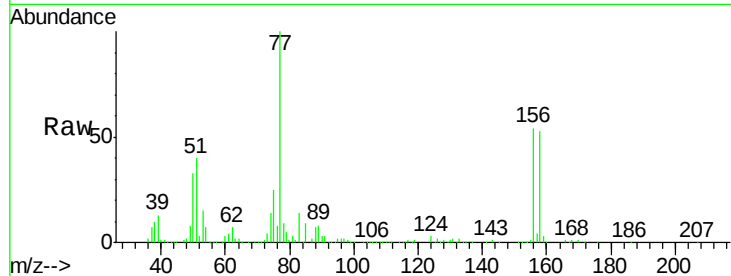
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
314571	156	100		
	77	223.8	113.7	341.1
	158	97.8	48.5	145.6

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#78

n-propylbenzene

Concen: 58.366 ug/l

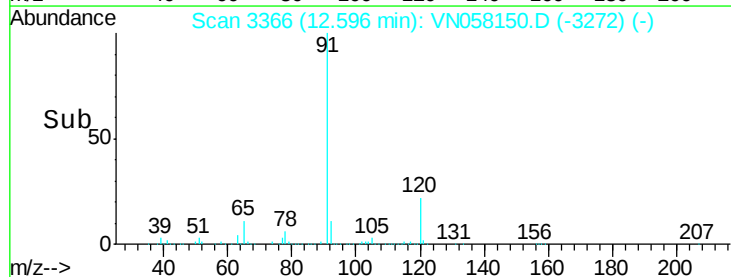
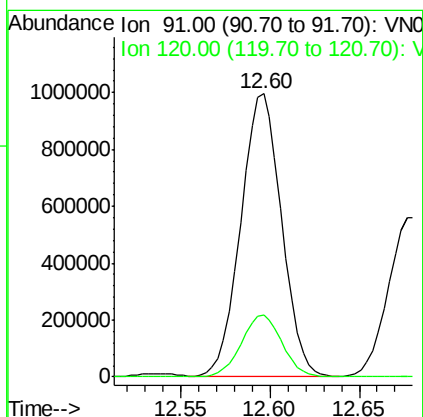
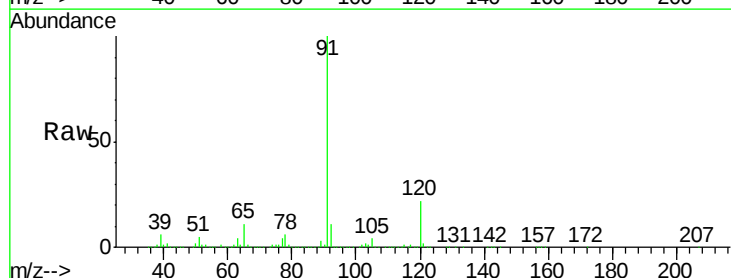
RT: 12.60 min Scan# 3366

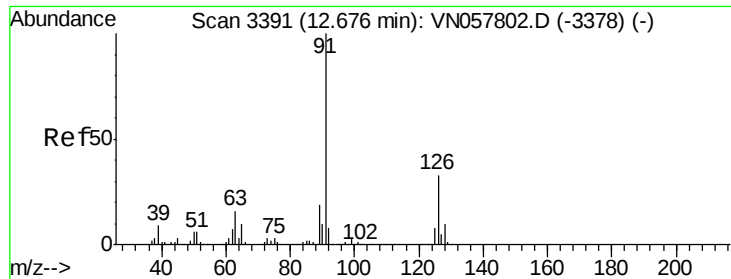
Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion	Ion	Ratio	Lower	Upper
1580419	91	100		
	120	22.0	11.1	33.1





#79

2-Chlorotoluene

Concen: 54.662 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 935499

Ion Ratio Lower Upper

91 100

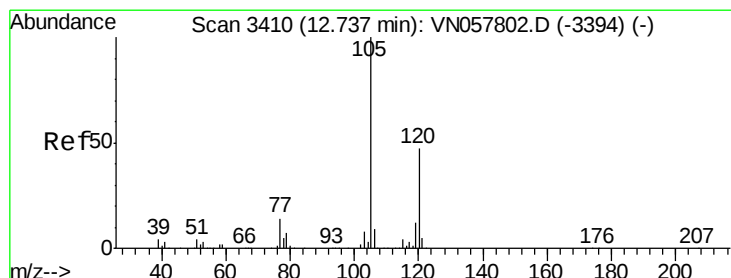
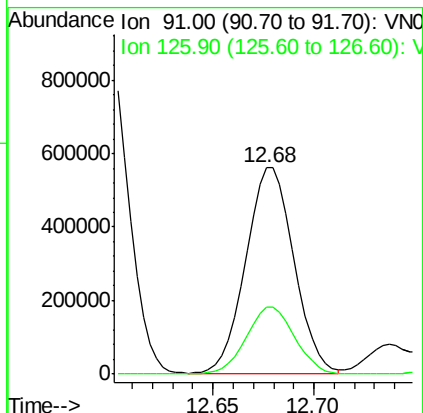
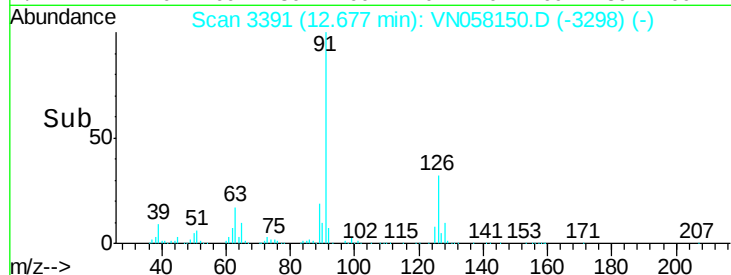
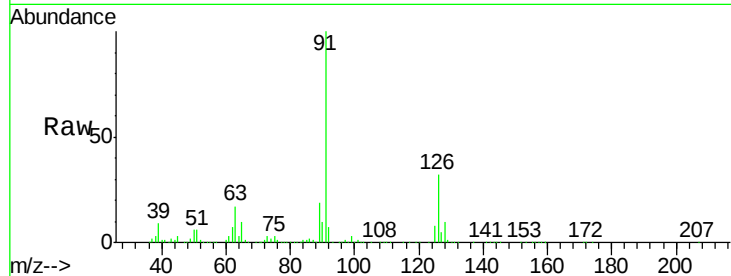
126 32.8 16.4 49.2

Manual Integrations

APPROVED

MMDadoda

9/18/2019 4:41:53 PM



#80

1,3,5-Trimethylbenzene

Concen: 57.930 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058150.D

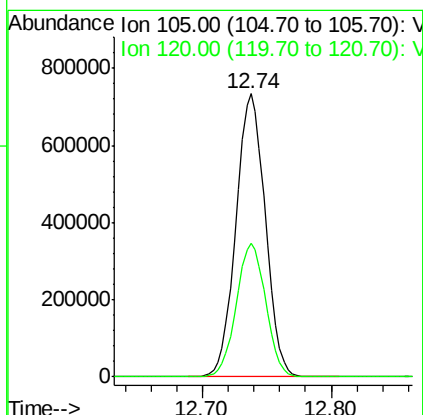
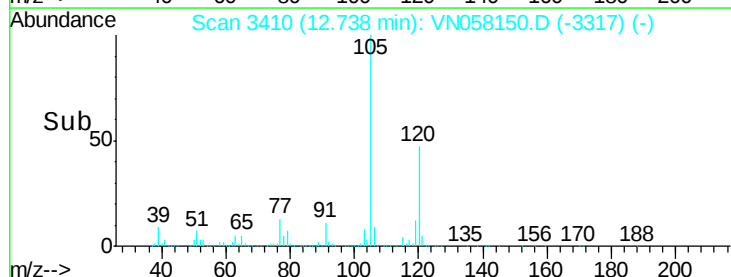
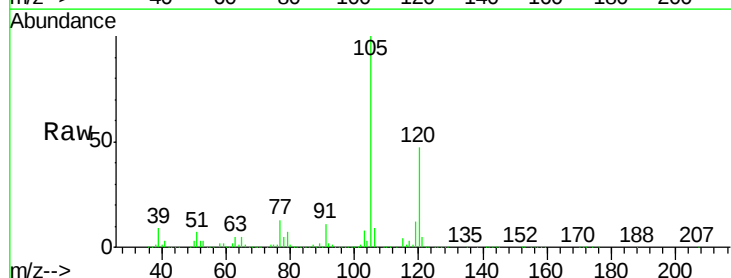
Acq: 17 Sep 2019 15:28

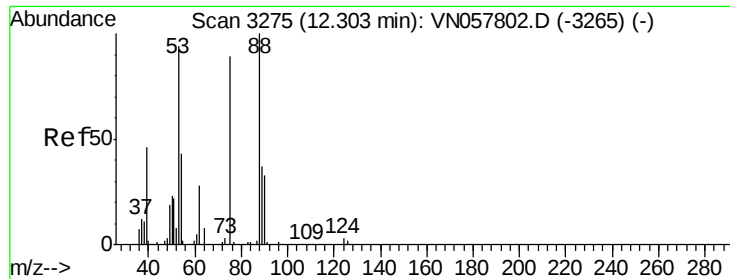
Tgt Ion: 105 Resp: 1154206

Ion Ratio Lower Upper

105 100

120 47.3 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 58.098 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

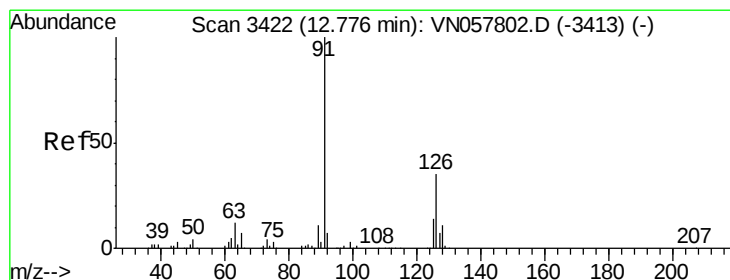
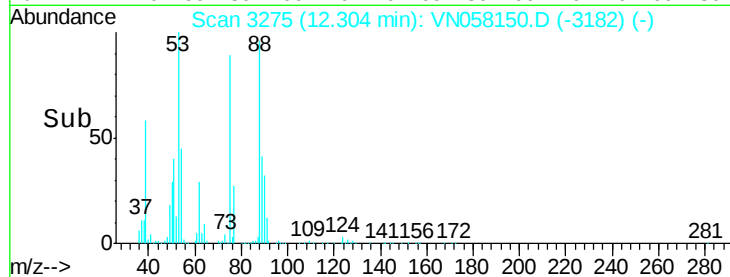
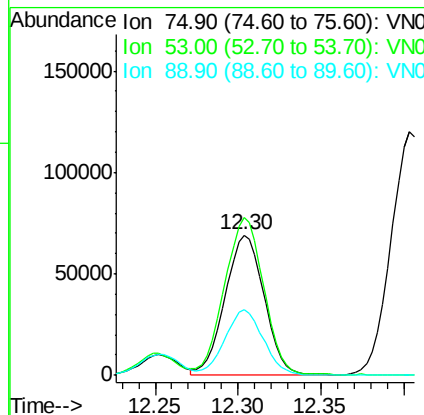
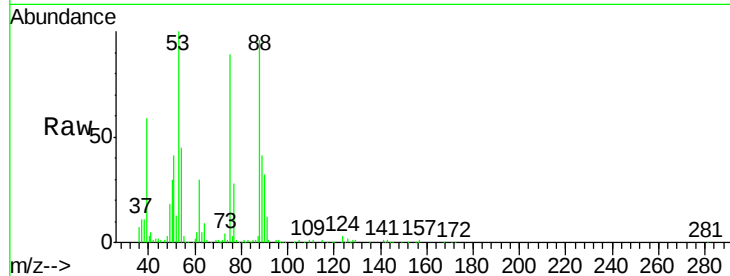
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	113495
Ion	Ratio	Lower	Upper
75	100		
53	112.9	88.4	132.6
89	45.9	35.3	52.9

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#82

4-Chlorotoluene

Concen: 56.229 ug/l

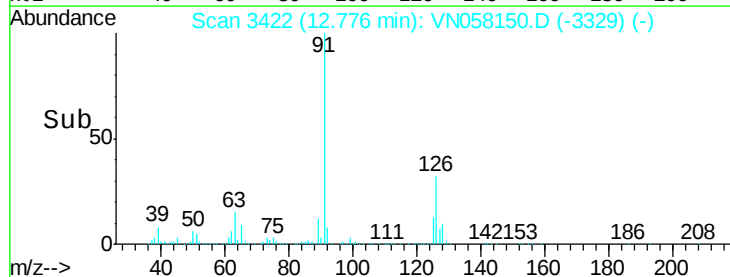
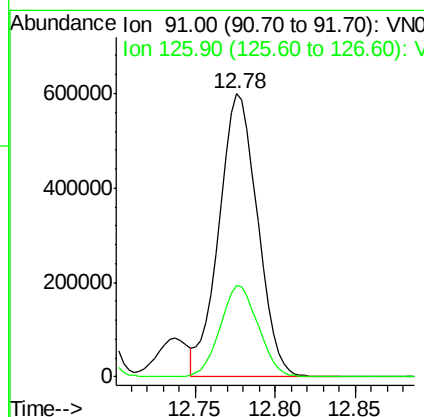
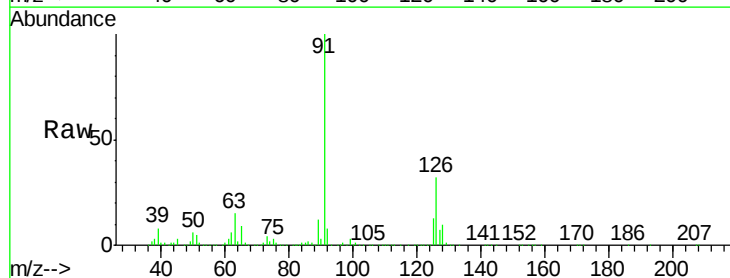
RT: 12.78 min Scan# 3422

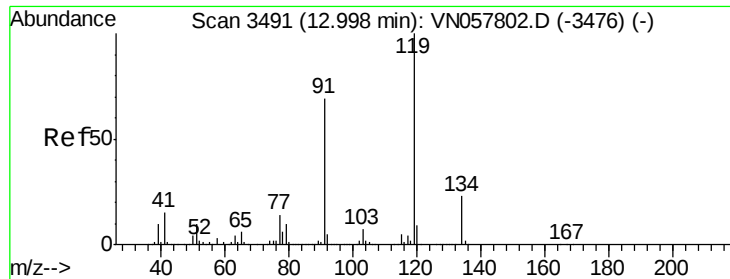
Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion:	91	Resp:	988214
Ion	Ratio	Lower	Upper
91	100		
126	31.9	16.0	48.0





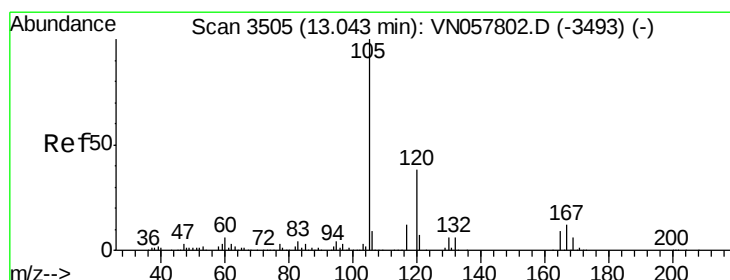
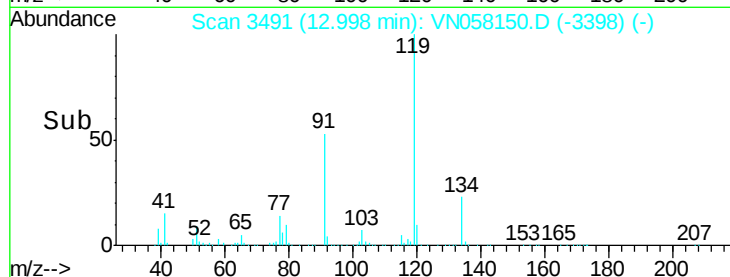
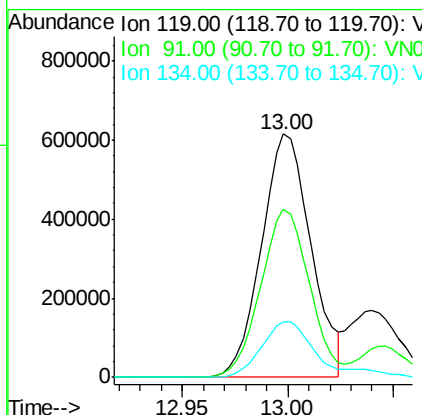
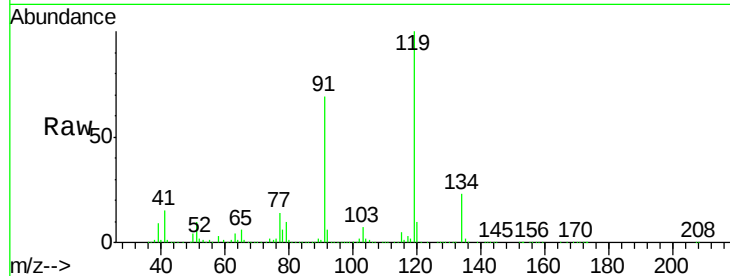
#83
tert-Butylbenzene
Concen: 56.694 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:119 Resp: 1004103
Ion Ratio Lower Upper
119 100
91 67.8 33.6 100.8
134 23.3 11.7 35.0

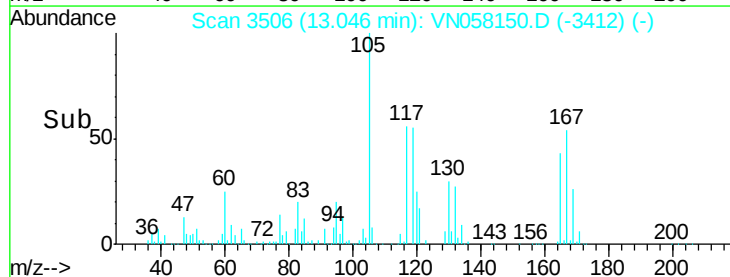
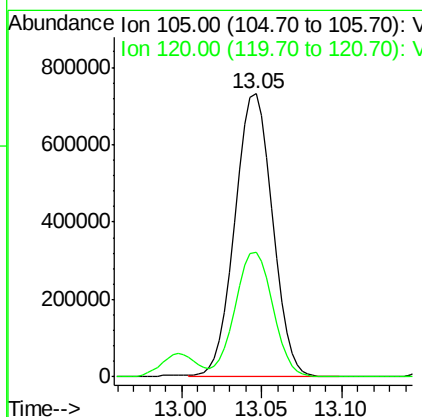
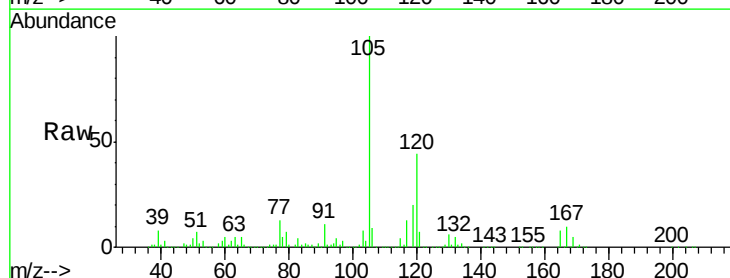
Manual Integrations
APPROVED

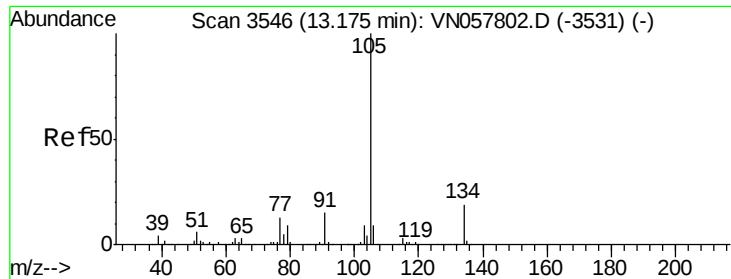
MMDadoda
9/18/2019 4:41:53 PM



#84
1,2,4-Trimethylbenzene
Concen: 57.766 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion:105 Resp: 1169770
Ion Ratio Lower Upper
105 100
120 44.4 22.4 67.2





#85

sec-Butylbenzene

Concen: 58.113 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1364175

Ion Ratio Lower Upper

105 100

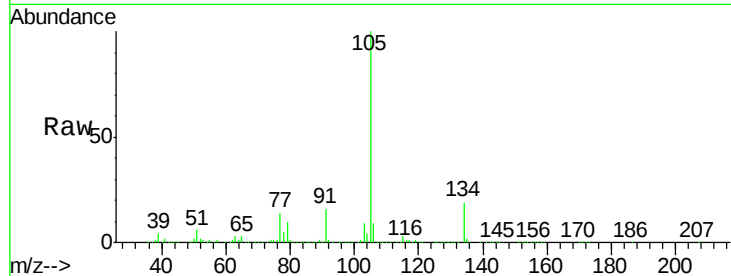
134 19.1 9.6 28.6

Manual Integrations

APPROVED

MMDadoda

9/18/2019 4:41:53 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

1000000

800000

600000

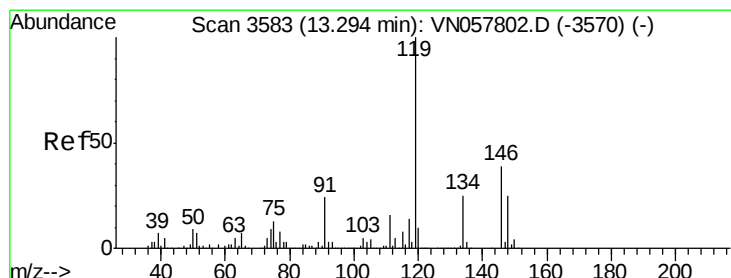
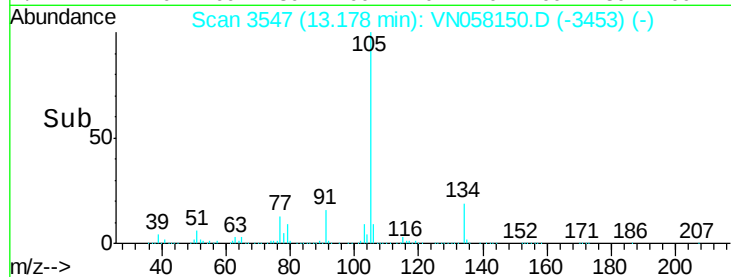
400000

200000

0

13.10 13.15 13.20 13.25

Time-->



#86

p-Isopropyltoluene

Concen: 60.244 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

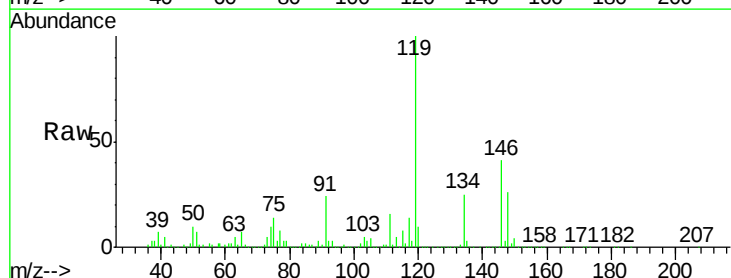
Tgt Ion:119 Resp: 1246058

Ion Ratio Lower Upper

119 100

134 25.4 12.5 37.5

91 24.3 12.3 36.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

1000000

800000

600000

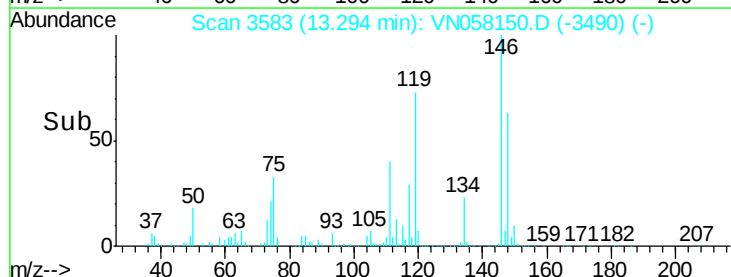
400000

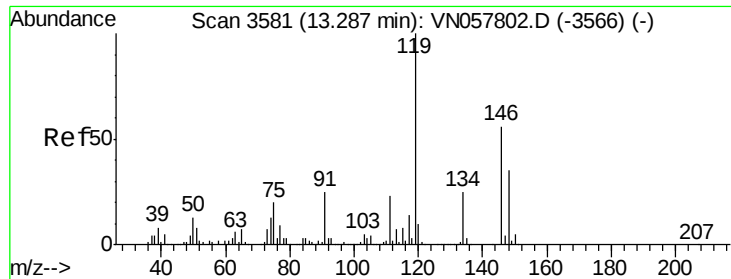
200000

0

13.25 13.30 13.35

Time-->





#87

1,3-Dichlorobenzene

Concen: 56.657 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

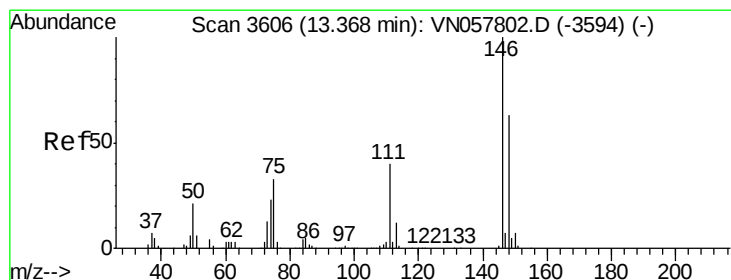
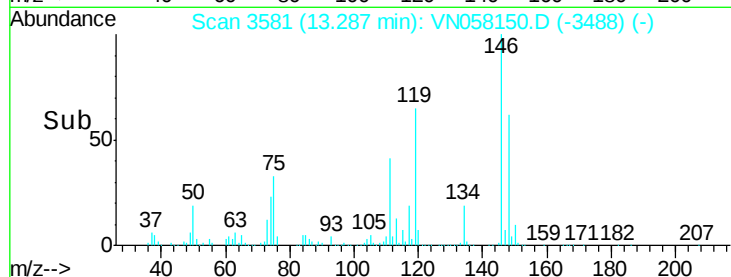
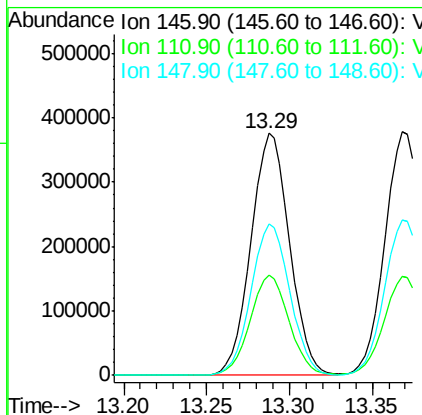
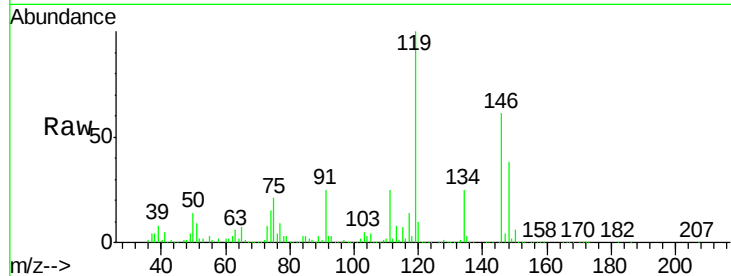
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	611398
Ion Ratio	Lower	Upper	
146	100		
111	41.4	20.5	61.6
148	62.8	31.5	94.5

Manual Integrations
APPROVED

MMDadoda
9/18/2019 4:41:53 PM



#88

1,4-Dichlorobenzene

Concen: 55.471 ug/l

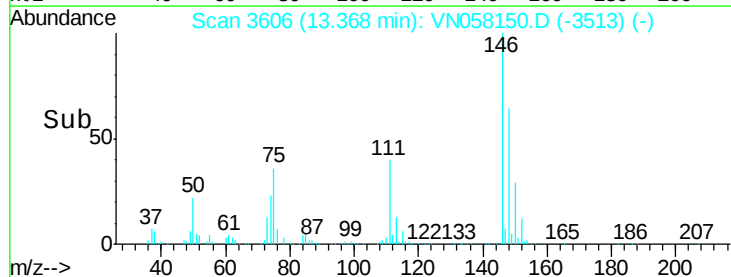
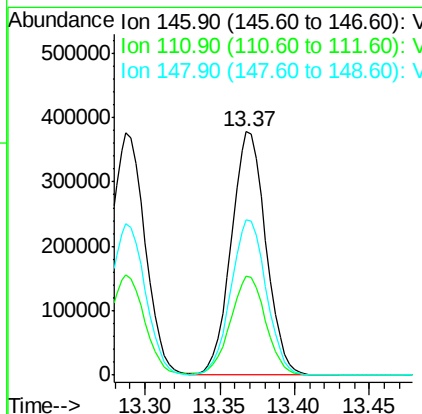
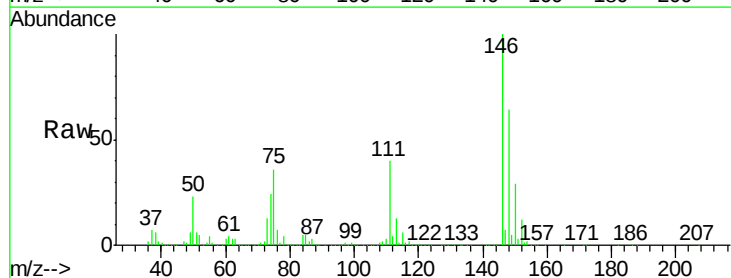
RT: 13.37 min Scan# 3606

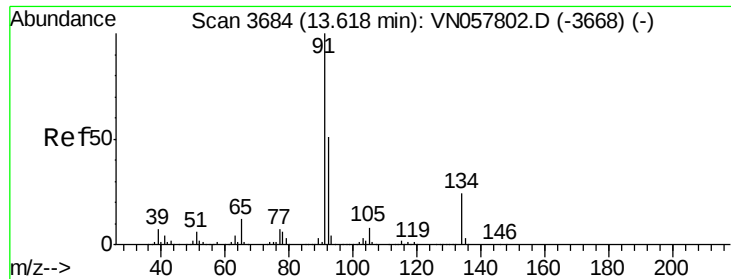
Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Tgt Ion:	146	Resp:	607618
Ion Ratio	Lower	Upper	
146	100		
111	41.1	20.4	61.2
148	64.8	31.8	95.4





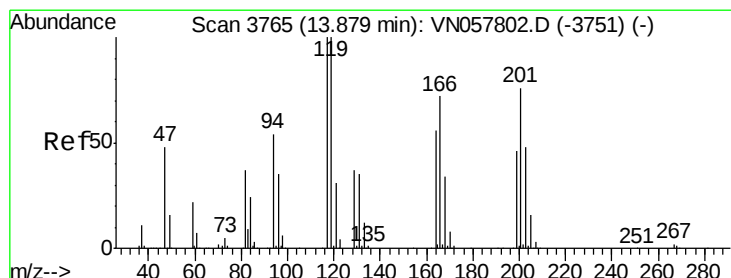
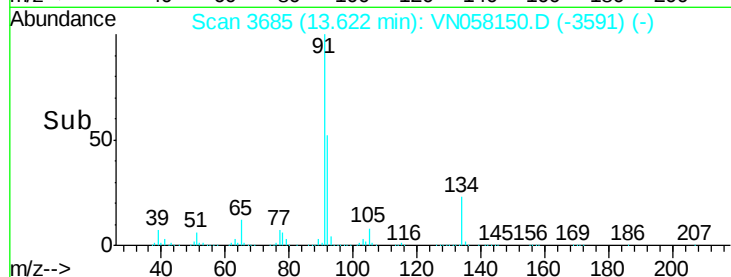
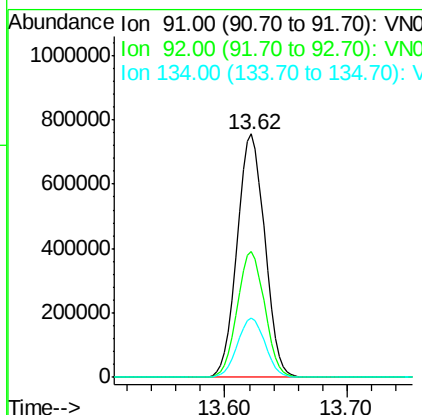
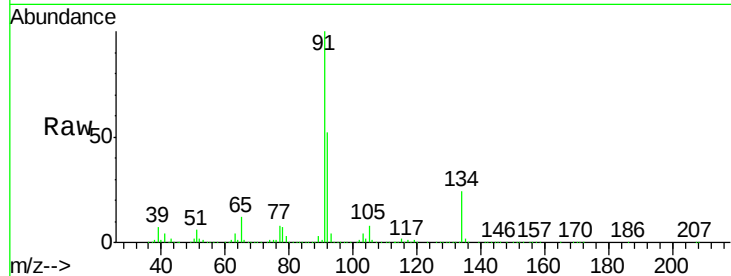
#89
n-Butylbenzene
Concen: 60.314 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1178082
Ion Ratio Lower Upper
91 100
92 51.6 25.7 77.0
134 24.4 11.9 35.7

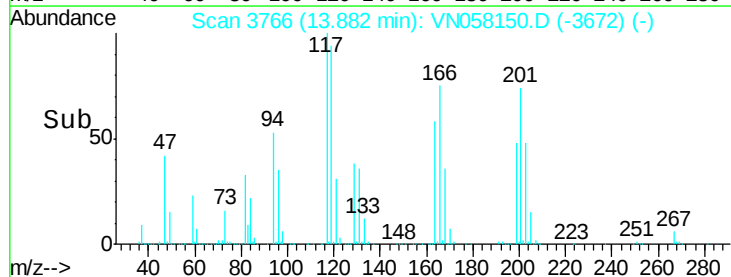
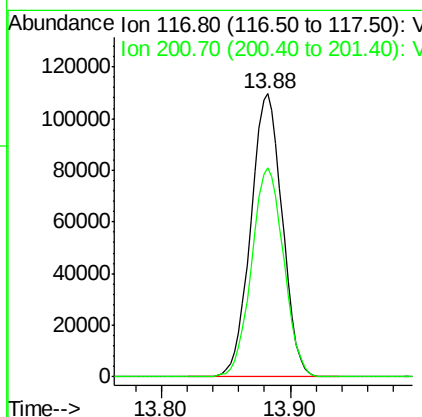
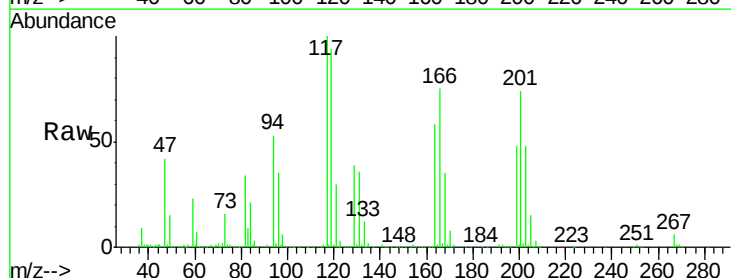
Manual Integrations
APPROVED

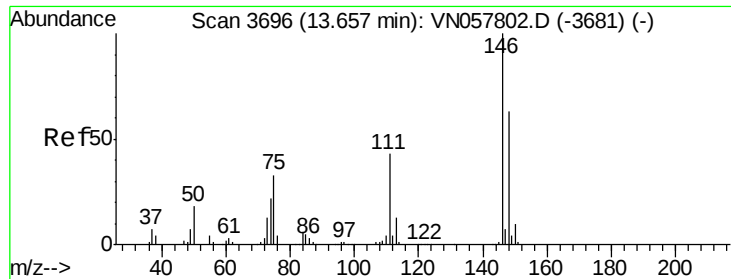
MMDadoda
9/18/2019 4:41:53 PM



#90
Hexachloroethane
Concen: 60.876 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. 0.00 min
Lab File: VN058150.D
Acq: 17 Sep 2019 15:28

Tgt Ion: 117 Resp: 187257
Ion Ratio Lower Upper
117 100
201 75.0 37.5 112.7





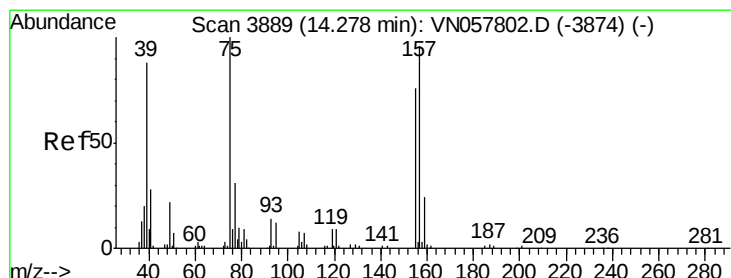
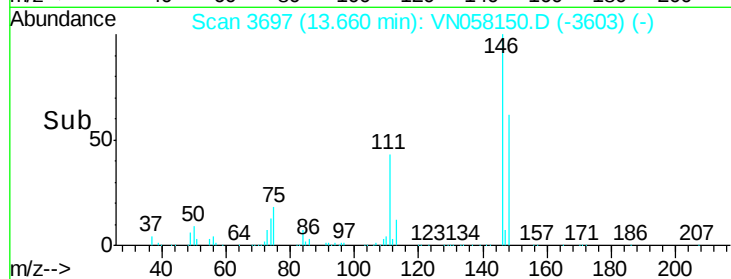
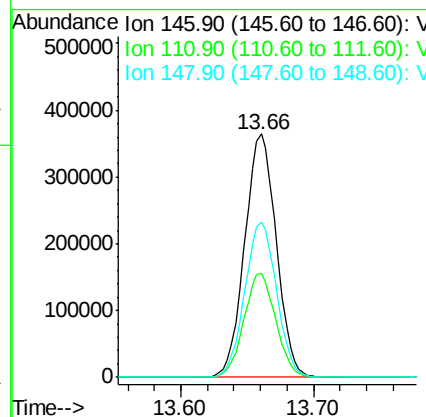
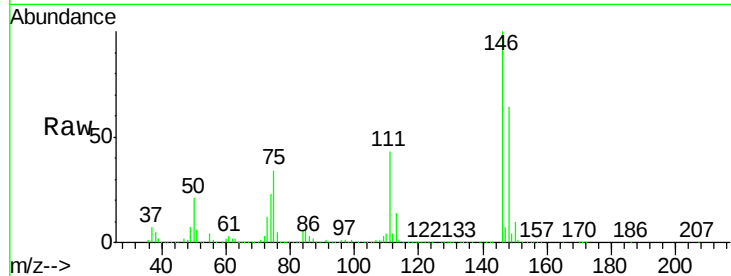
#91
 1,2-Dichlorobenzene
 Concen: 55.997 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
146	100	603693		
111	42.6	21.3	63.9	
148	64.3	31.4	94.3	

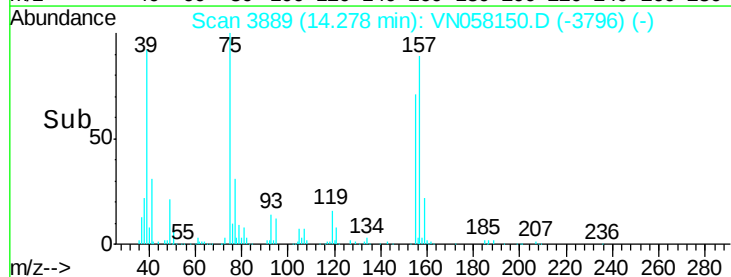
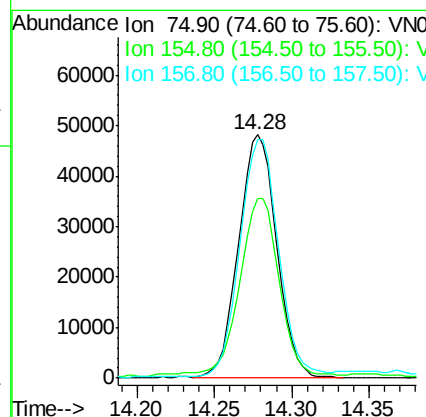
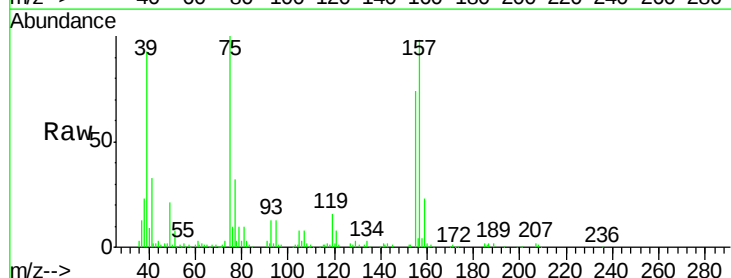
Manual Integrations
 APPROVED

MMDadoda
 9/18/2019 4:41:53 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 62.213 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	81573		
155	77.1	37.3	111.8	
157	100.3	47.9	143.8	





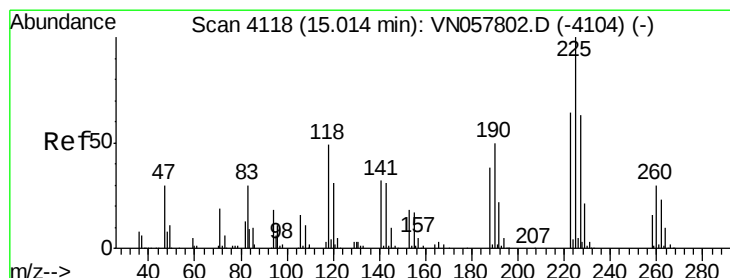
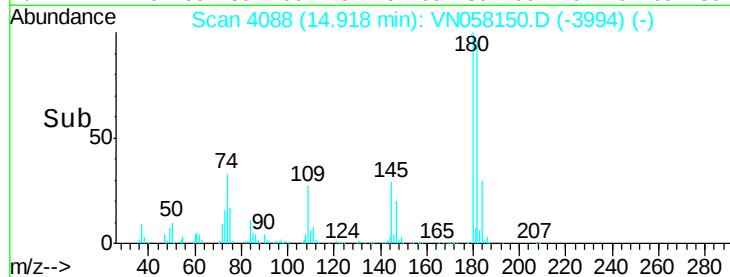
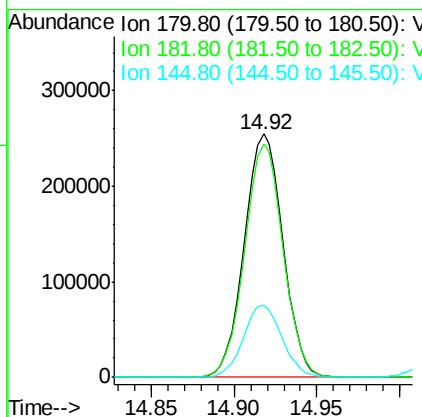
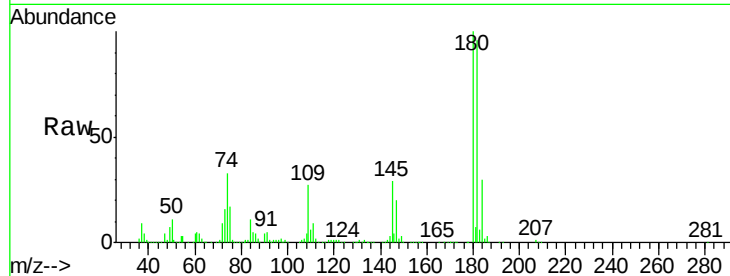
#93
 1,2,4-Trichlorobenzene
 Concen: 58.574 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	412750		
182	95.4	46.9	140.8	
145	29.8	14.9	44.7	

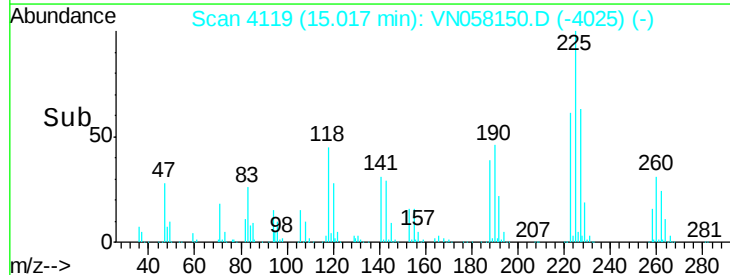
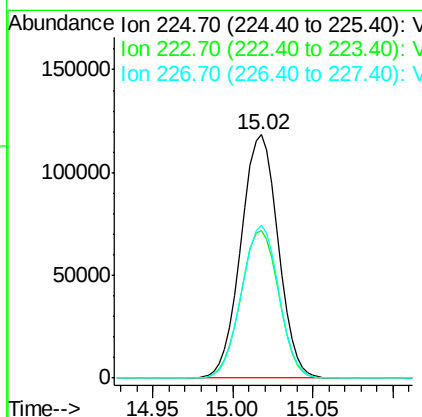
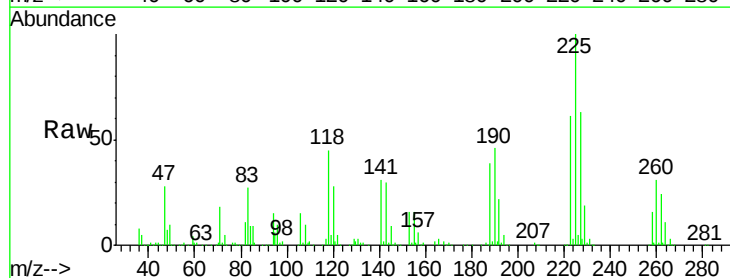
Manual Integrations
 APPROVED

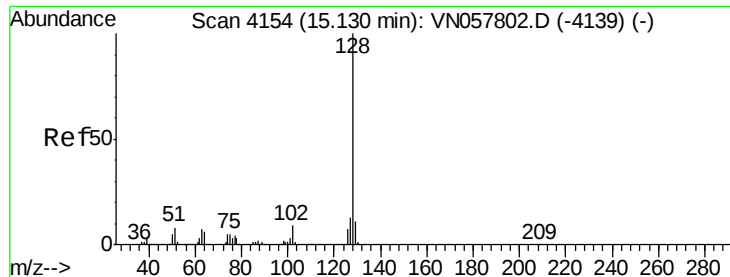
MMDadoda
 9/18/2019 4:41:53 PM



#94
 Hexachlorobutadiene
 Concen: 62.720 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058150.D
 Acq: 17 Sep 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	187351		
223	62.0	32.4	97.2	
227	63.1	31.8	95.4	





#95

Naphthalene

Concen: 63.679 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:128 Resp: 1125173

Ion Ratio Lower Upper

128 100

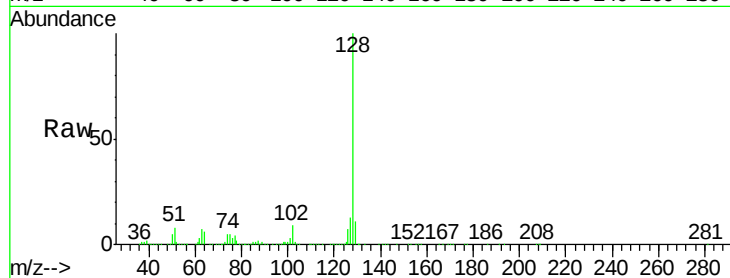
127 12.7 10.3 15.5

129 10.4 8.6 12.8

Manual Integrations
APPROVED

MMDadoda

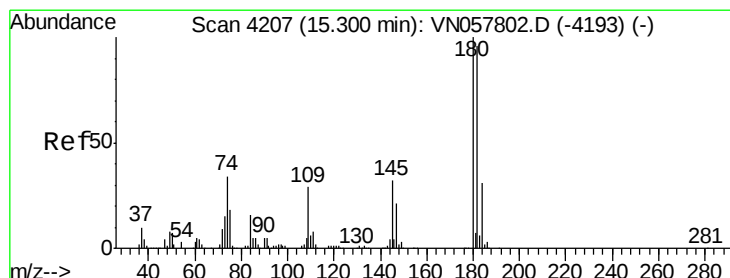
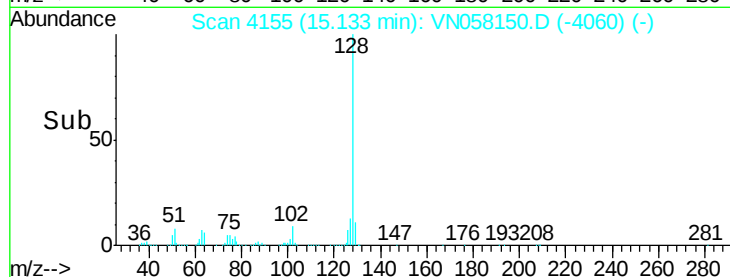
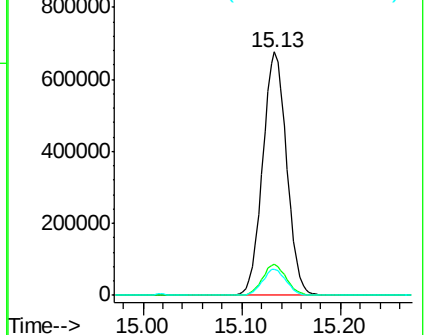
9/18/2019 4:41:53 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 61.737 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058150.D

Acq: 17 Sep 2019 15:28

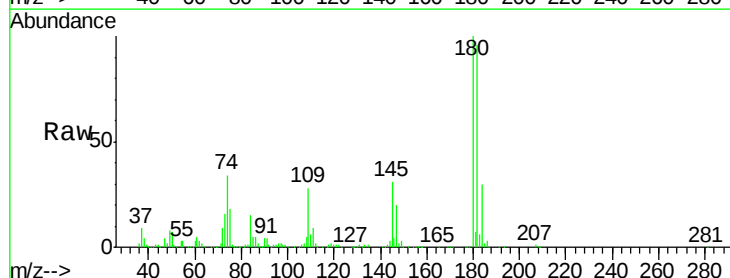
Tgt Ion:180 Resp: 381258

Ion Ratio Lower Upper

180 100

182 96.9 48.3 144.8

145 32.3 16.3 48.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

