

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102619\
 Data File : VN058982.D
 Acq On : 25 Oct 2019 14:35
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/28/2019 9:48:04 AM

Quant Time: Oct 25 23:50:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	366384	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	576544	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	555191	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	275128	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	257520	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	
35) Dibromofluoromethane	7.57	113	189586	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
50) Toluene-d8	10.08	98	745230	50.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.30%	
62) 4-Bromofluorobenzene	12.40	95	283848	52.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.06%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	210250	46.026	ug/l	100
3) Chloromethane	2.04	50	249284	44.062	ug/l	99
4) Vinyl Chloride	2.17	62	261128	46.485	ug/l	97
5) Bromomethane	2.54	94	152971	43.486	ug/l	98
6) Chloroethane	2.68	64	169238	46.980	ug/l	99
7) Trichlorofluoromethane	3.00	101	342910	49.335	ug/l	100
8) Diethyl Ether	3.39	74	121420	50.551	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	186728	48.459	ug/l	99
10) Methyl Iodide	3.92	142	226579	44.709	ug/l	100
11) Tert butyl alcohol	4.75	59	197309	221.267	ug/l	99
12) 1,1-Dichloroethene	3.71	96	176086	48.752	ug/l	98
13) Acrolein	3.58	56	124556	203.287	ug/l	99
14) Allyl chloride	4.29	41	363996m	49.803	ug/l	
15) Acrylonitrile	4.95	53	538645	240.139	ug/l	99
16) Acetone	3.79	43	616287	232.096	ug/l	98
17) Carbon Disulfide	4.03	76	514352	44.208	ug/l	100
18) Methyl Acetate	4.29	43	284382	47.107	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	660577	52.231	ug/l	99
20) Methylene Chloride	4.52	84	217524	47.976	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	196168	49.180	ug/l	99
22) Diisopropyl ether	5.92	45	759727	53.144	ug/l	99
23) Vinyl Acetate	5.86	43	3143323	273.678	ug/l	100
24) 1,1-Dichloroethane	5.82	63	411591	49.654	ug/l	100
25) 2-Butanone	6.81	43	804555	233.416	ug/l	99
26) 2,2-Dichloropropane	6.80	77	365520	50.979	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	236077	51.810	ug/l	98
28) Bromochloromethane	7.17	49	133008	48.180	ug/l	99
29) Tetrahydrofuran	7.18	42	498316	236.329	ug/l	100
30) Chloroform	7.35	83	409146	49.206	ug/l	99
31) Cyclohexane	7.63	56	359699	46.579	ug/l	100
32) 1,1,1-Trichloroethane	7.55	97	347720	49.613	ug/l	100
36) 1,1-Dichloropropene	7.77	75	305247	51.714	ug/l	99
37) Ethyl Acetate	6.90	43	316581	49.223	ug/l	100
38) Carbon Tetrachloride	7.75	117	303098	49.845	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102619\
 Data File : VN058982.D
 Acq On : 25 Oct 2019 14:35
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/28/2019 9:48:04 AM

Quant Time: Oct 25 23:50:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	345925	52.193	ug/l	99
40) Benzene	8.02	78	899613	51.902	ug/l	99
41) Methacrylonitrile	7.15	41	143454m	50.080	ug/l	
42) 1,2-Dichloroethane	8.10	62	337443	50.539	ug/l	100
43) Isopropyl Acetate	8.14	43	524036	50.804	ug/l	100
44) Trichloroethene	8.82	130	217587	51.533	ug/l	97
45) 1,2-Dichloropropane	9.10	63	249958	52.590	ug/l	99
46) Dibromomethane	9.19	93	154378	51.379	ug/l	99
47) Bromodichloromethane	9.39	83	326266	52.684	ug/l	99
48) Methyl methacrylate	9.18	41	250395	53.505	ug/l	97
49) 1,4-Dioxane	9.18	88	77100	1003.598	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	1617523	268.476	ug/l	100
52) Toluene	10.15	92	565005	54.969	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	380868	55.556	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	401165	54.771	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	223468	52.775	ug/l	99
56) Ethyl methacrylate	10.42	69	352277	49.547	ug/l	99
57) 1,3-Dichloropropane	10.70	76	393256	52.916	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.68	63	757947	252.299	ug/l	99
59) 2-Hexanone	10.75	43	1217784	261.574	ug/l	99
60) Dibromochloromethane	10.90	129	248372	54.495	ug/l	99
61) 1,2-Dibromoethane	11.00	107	226517	52.273	ug/l	100
64) Tetrachloroethene	10.63	164	198866	51.146	ug/l	98
65) Chlorobenzene	11.43	112	596628	52.785	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	226685	53.147	ug/l	99
67) Ethyl Benzene	11.51	91	1109080	55.935	ug/l	99
68) m/p-Xylenes	11.62	106	819249	111.415	ug/l	99
69) o-Xylene	11.95	106	387983	55.324	ug/l	100
70) Styrene	11.96	104	653925	50.498	ug/l	99
71) Bromoform	12.13	173	176902	53.486	ug/l #	98
73) Isopropylbenzene	12.25	105	1076574	53.543	ug/l	99
74) N-amyl acetate	12.07	43	469303	51.484	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	337911	47.795	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	290808m	45.607	ug/l	
77) Bromobenzene	12.53	156	255641	51.583	ug/l	97
78) n-propylbenzene	12.59	91	1283403	53.999	ug/l	100
79) 2-Chlorotoluene	12.68	91	750939	51.624	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	925677	54.795	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	122829	50.182	ug/l	96
82) 4-Chlorotoluene	12.78	91	785903	52.868	ug/l	100
83) tert-Butylbenzene	13.00	119	778971	53.923	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	931262	55.889	ug/l	98
85) sec-Butylbenzene	13.17	105	1062904	55.187	ug/l	100
86) p-Isopropyltoluene	13.29	119	964310	56.743	ug/l	100
87) 1,3-Dichlorobenzene	13.29	146	467559	52.762	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	466160	52.542	ug/l	100
89) n-Butylbenzene	13.62	91	882642	56.539	ug/l	99
90) Hexachloroethane	13.88	117	174477	50.667	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	456440	52.405	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	67133	41.982	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102619\
Data File : VN058982.D
Acq On : 25 Oct 2019 14:35
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

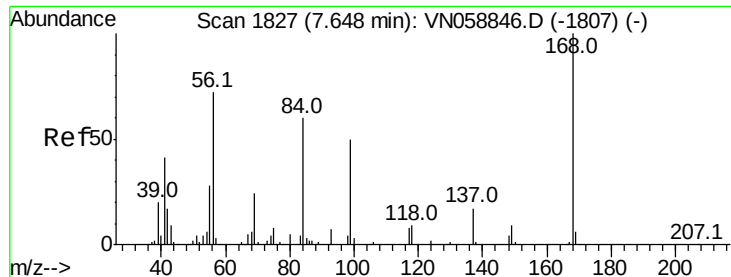
Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM

Quant Time: Oct 25 23:50:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	265307	48.468	ug/l	99
94) Hexachlorobutadiene	15.01	225	146487	51.890	ug/l	100
95) Naphthalene	15.13	128	706246	45.046	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	257913	48.398	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.01 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 366384

Ion Ratio Lower Upper

168 100

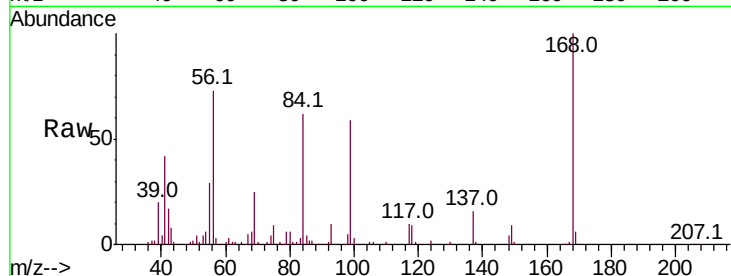
99 58.7 48.1 72.1

Manual Integrations

APPROVED

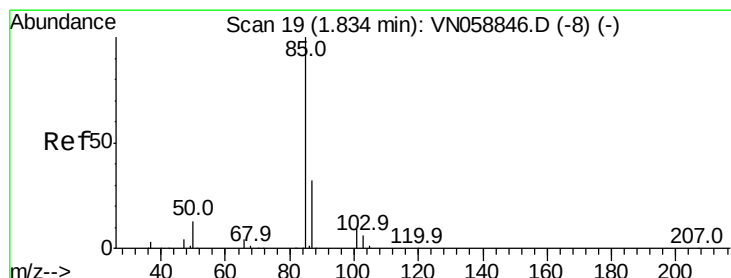
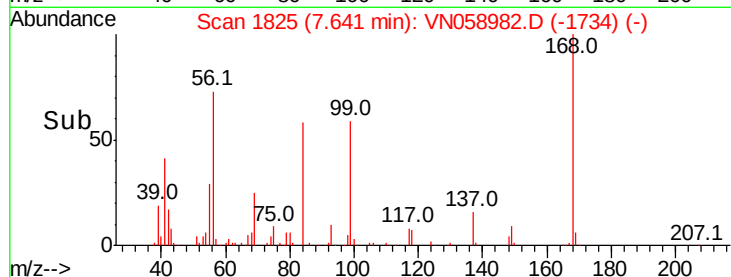
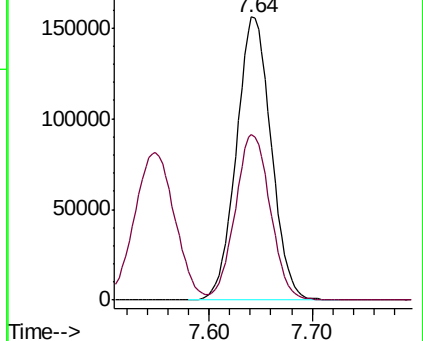
MMDadoda

10/28/2019 9:48:04 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 46.026 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058982.D

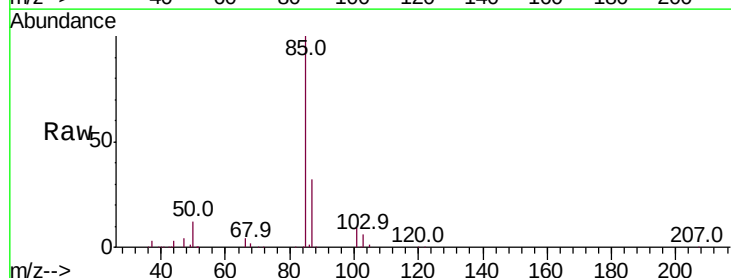
Acq: 25 Oct 2019 14:35

Tgt Ion: 85 Resp: 210250

Ion Ratio Lower Upper

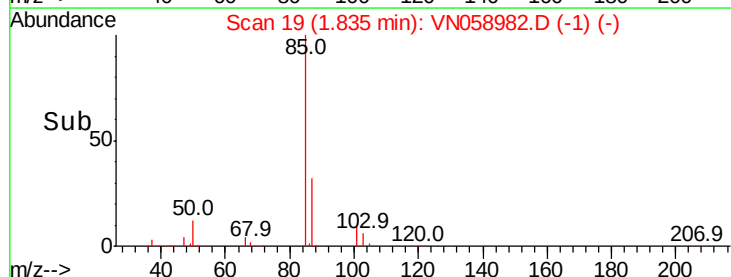
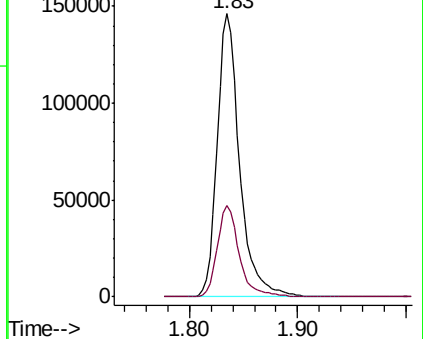
85 100

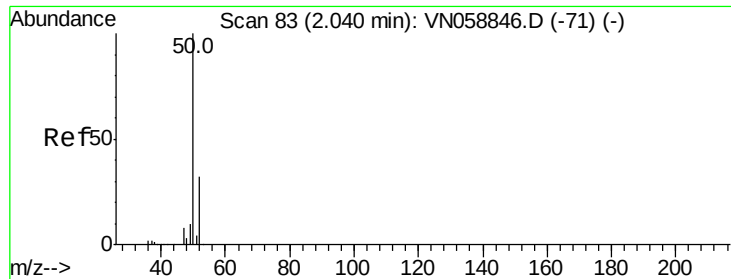
87 32.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 44.062 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 249284

Ion Ratio Lower Upper

50 100

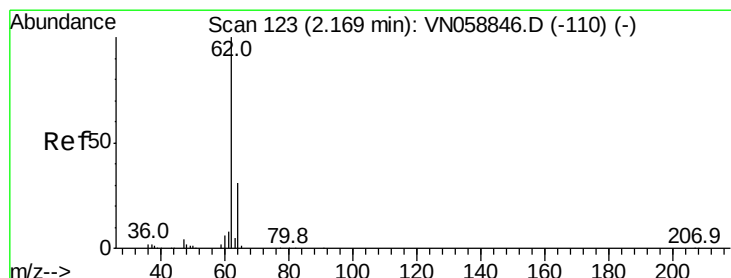
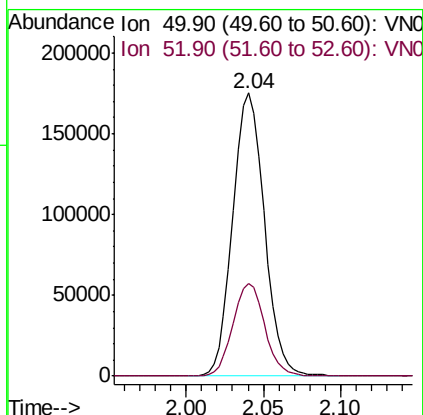
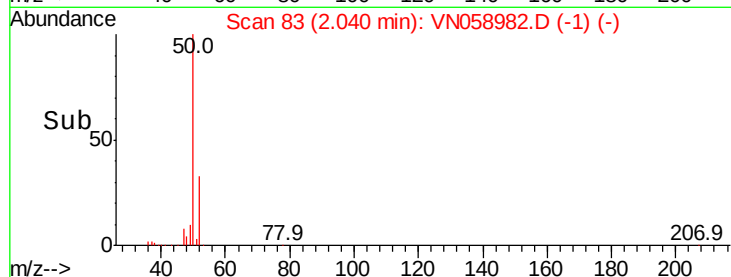
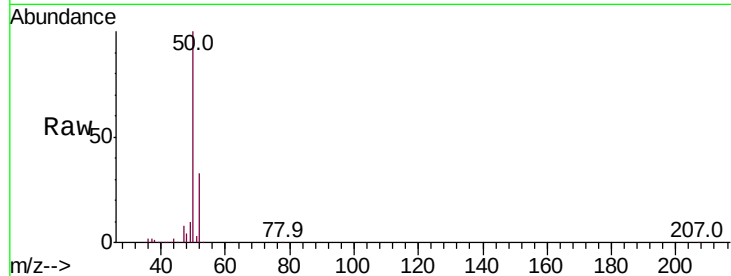
52 32.9 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#4

Vinyl Chloride

Concen: 46.485 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058982.D

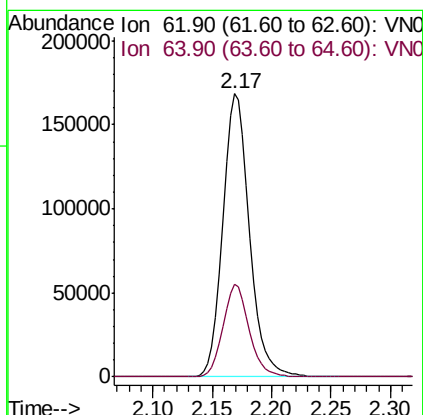
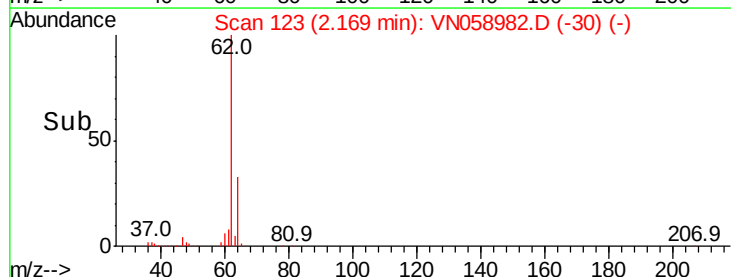
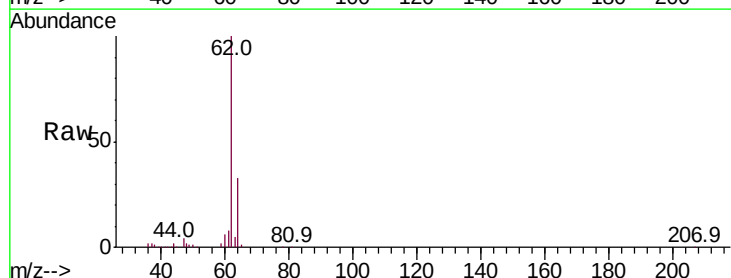
Acq: 25 Oct 2019 14:35

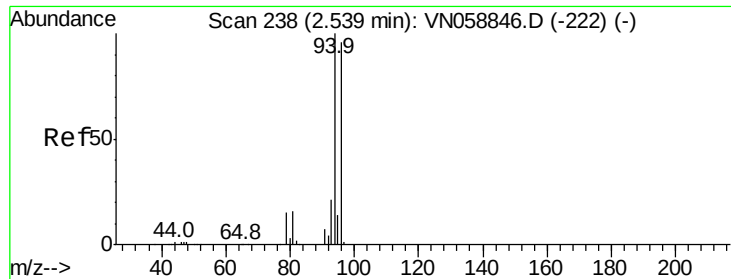
Tgt Ion: 62 Resp: 261128

Ion Ratio Lower Upper

62 100

64 32.6 24.6 36.8





#5

Bromomethane

Concen: 43.486 ug/l

RT: 2.54 min Scan# 238

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 152971

Ion Ratio Lower Upper

94 100

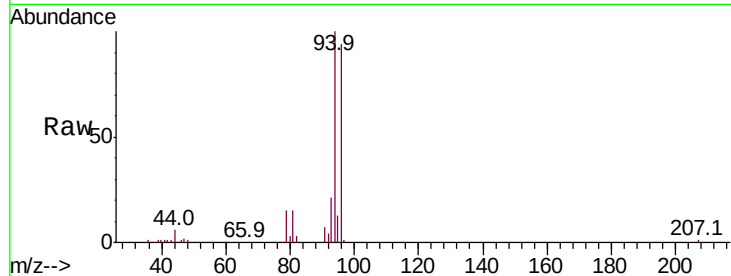
96 94.0 77.0 115.6

Manual Integrations

APPROVED

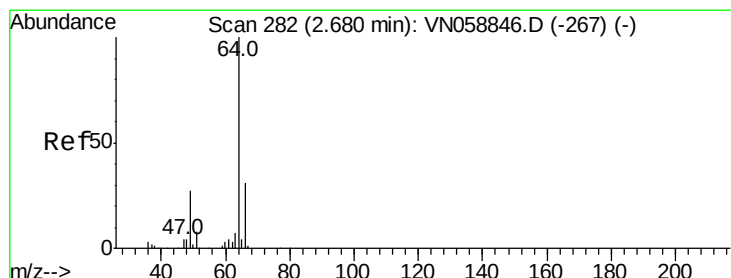
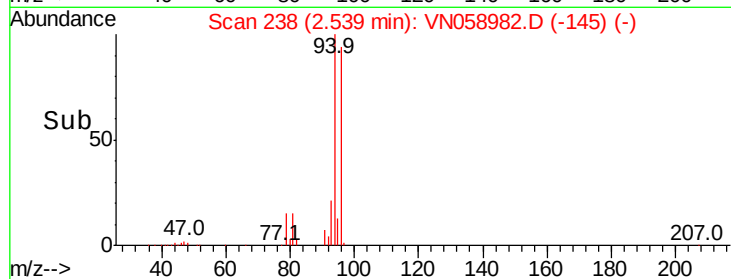
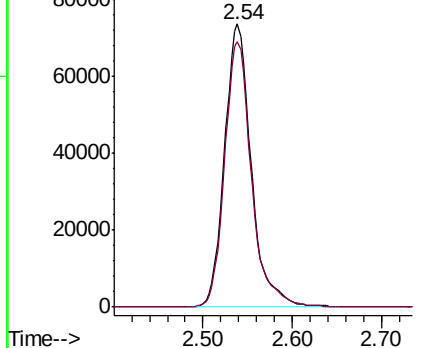
MMDadoda

10/28/2019 9:48:04 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 46.980 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.00 min

Lab File: VN058982.D

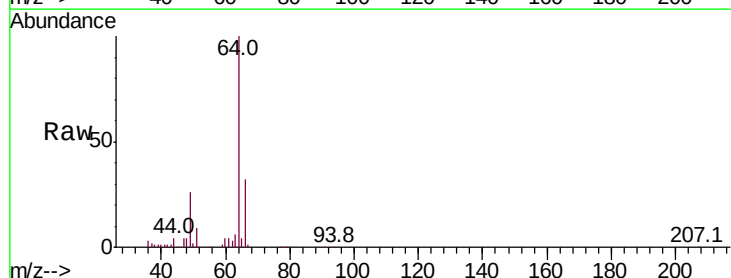
Acq: 25 Oct 2019 14:35

Tgt Ion: 64 Resp: 169238

Ion Ratio Lower Upper

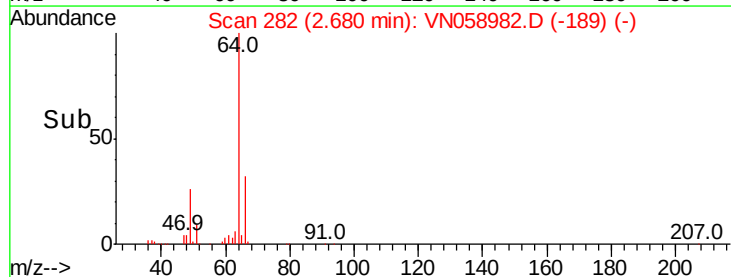
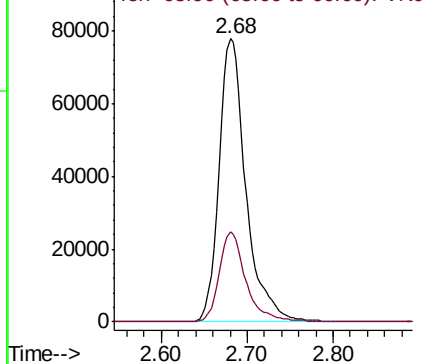
64 100

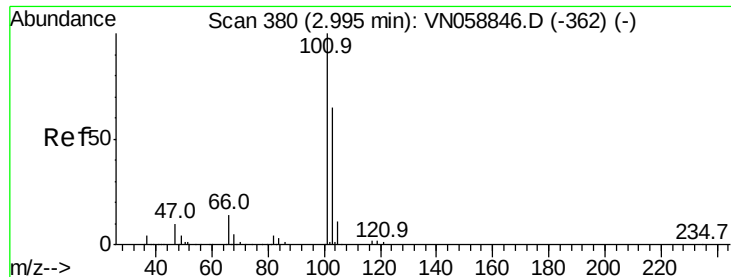
66 31.7 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

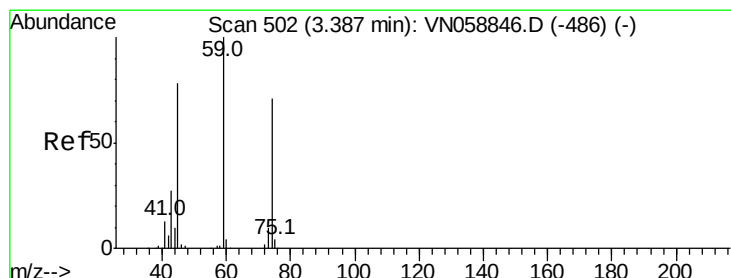
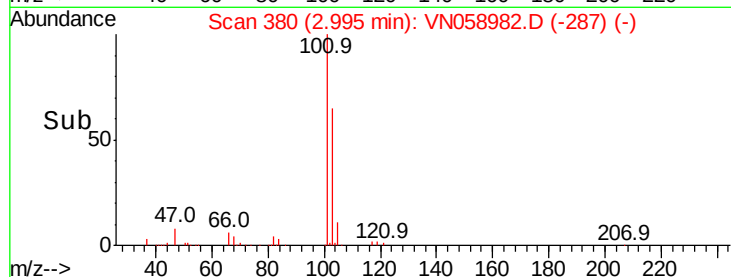
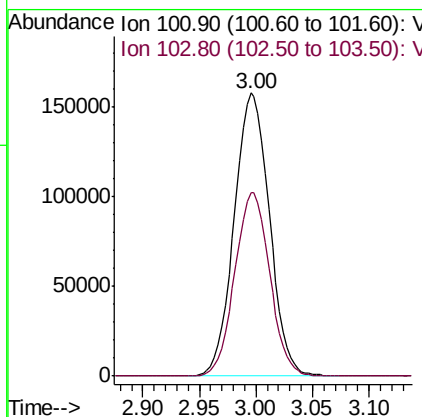
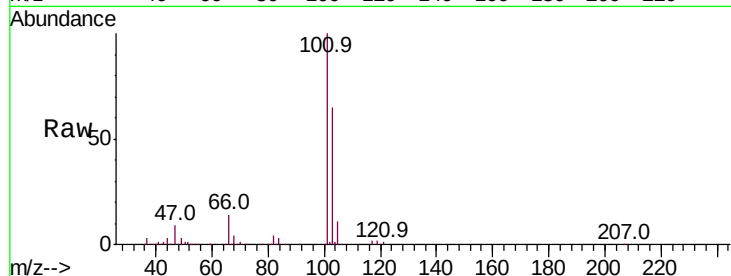
Trichlorofluoromethane
Concen: 49.335 ug/l
RT: 3.00 min Scan# 380
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.2	78.2

Manual Integrations
APPROVED

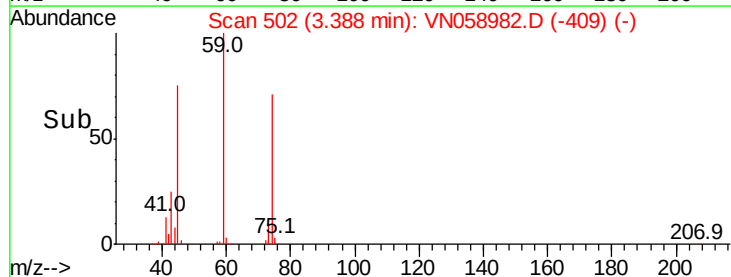
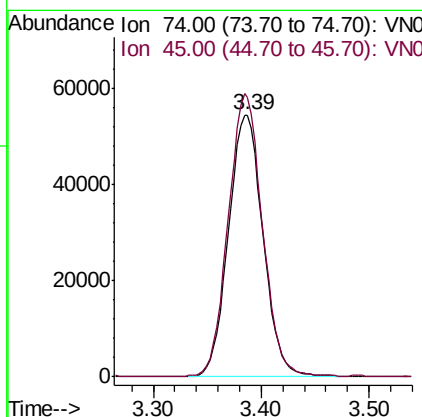
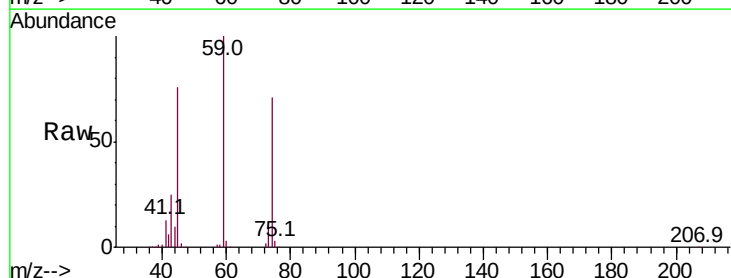
MMDadoda
10/28/2019 9:48:04 AM

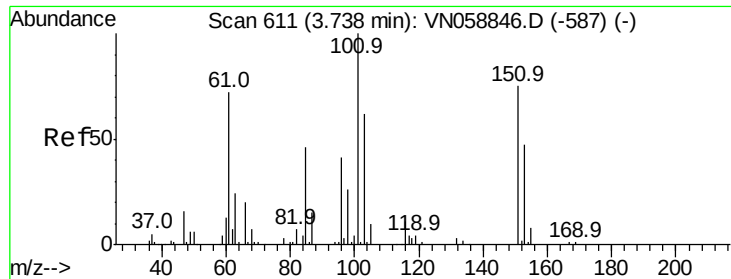


#8

Diethyl Ether
Concen: 50.551 ug/l
RT: 3.39 min Scan# 502
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	107.3	54.9	164.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.459 ug/l

RT: 3.73 min Scan# 609

Delta R.T. -0.01 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

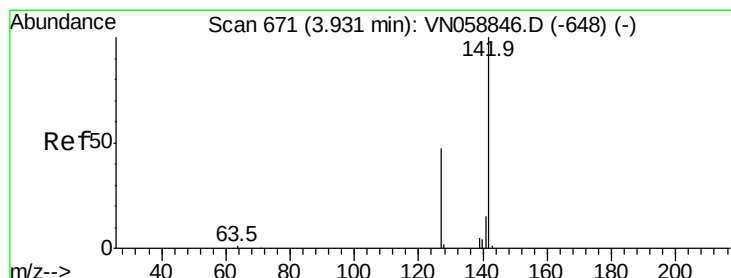
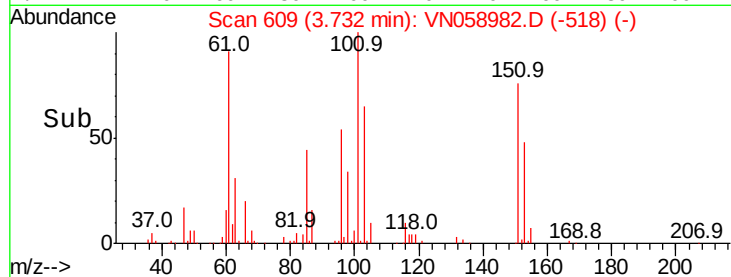
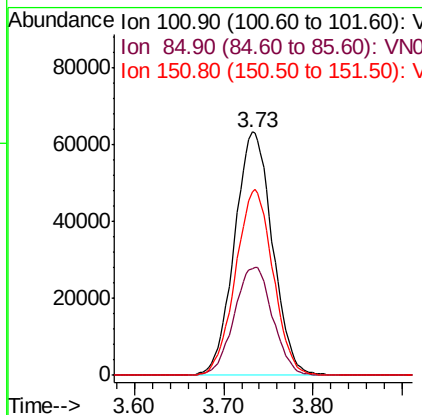
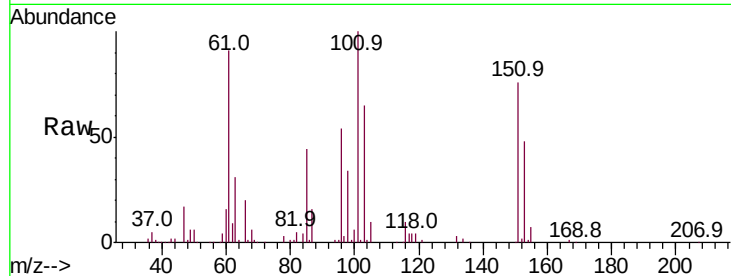
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	186728
Ion Ratio	Lower	Upper	
101	100		
85	45.0	37.2	55.8
151	75.3	59.9	89.9

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#10

Methyl Iodide

Concen: 44.709 ug/l

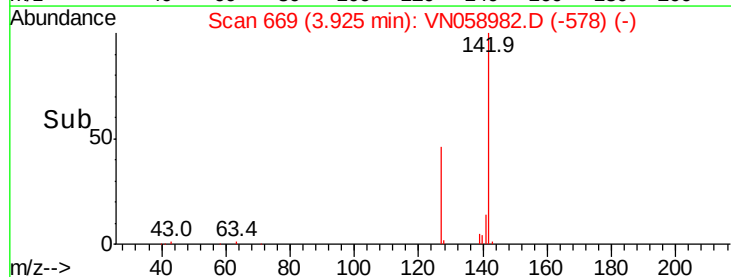
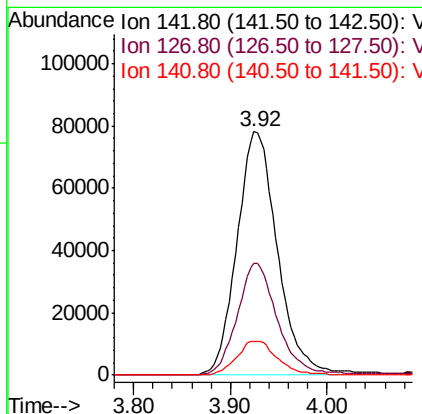
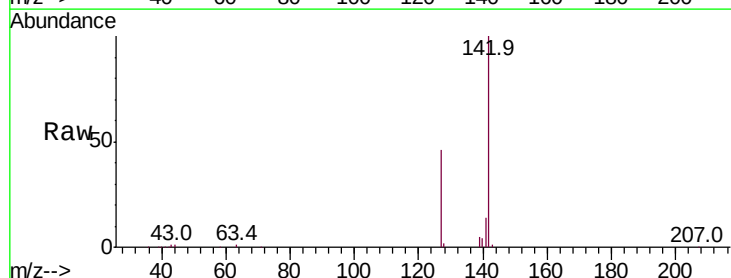
RT: 3.92 min Scan# 669

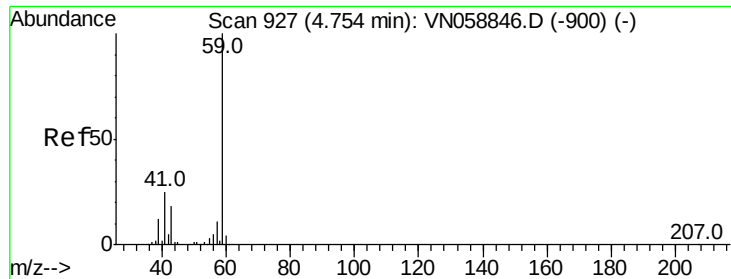
Delta R.T. -0.01 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion:	142	Resp:	226579
Ion Ratio	Lower	Upper	
142	100		
127	46.1	36.6	54.8
141	14.2	11.4	17.2





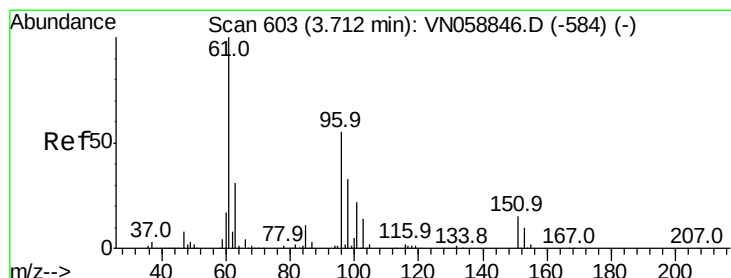
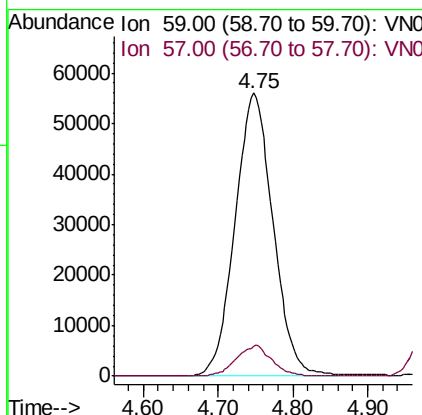
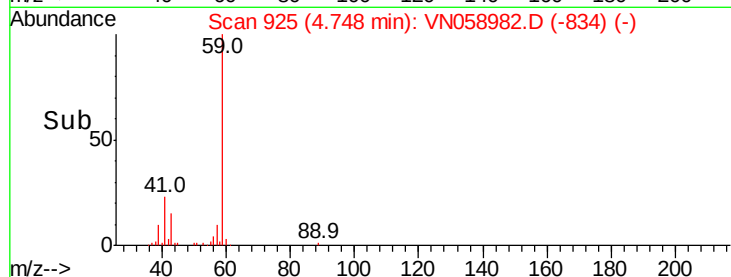
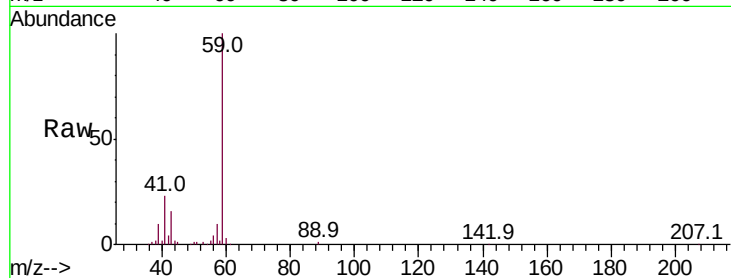
#11
Tert butyl alcohol
Concen: 221.267 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.01 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 59 Resp: 197309
Ion Ratio Lower Upper
59 100
57 10.2 8.6 12.8

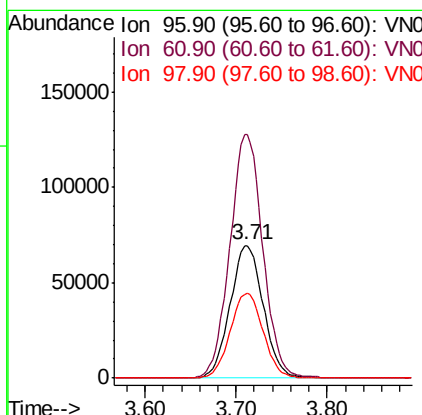
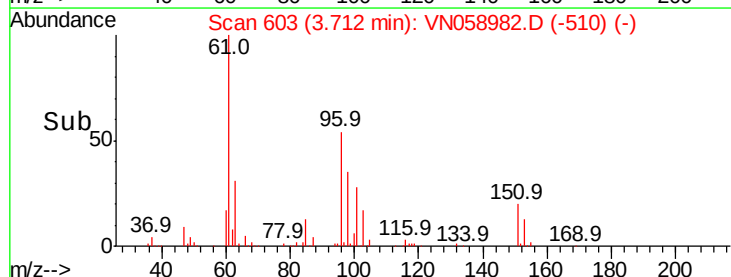
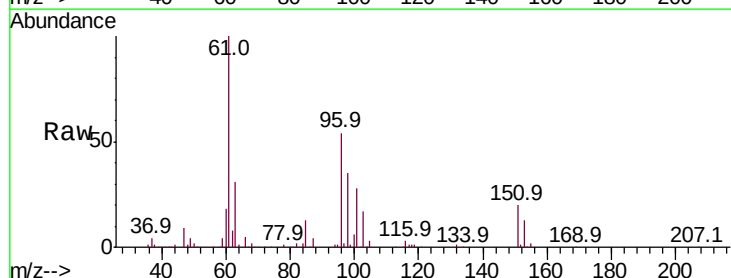
Manual Integrations
APPROVED

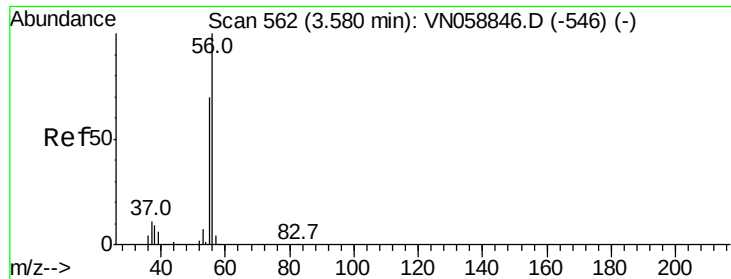
MMDadoda
10/28/2019 9:48:04 AM



#12
1,1-Dichloroethene
Concen: 48.752 ug/l
RT: 3.71 min Scan# 603
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion: 96 Resp: 176086
Ion Ratio Lower Upper
96 100
61 183.6 146.2 219.2
98 64.1 48.7 73.1





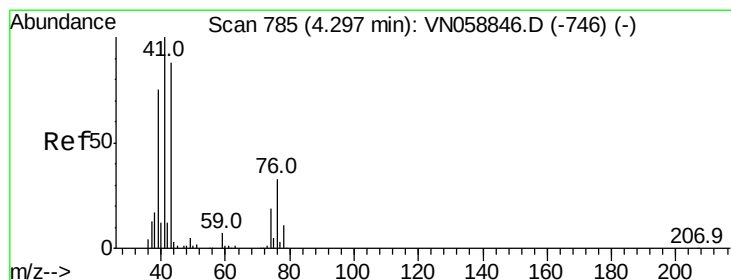
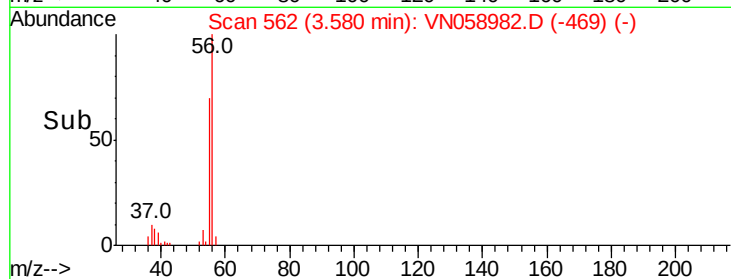
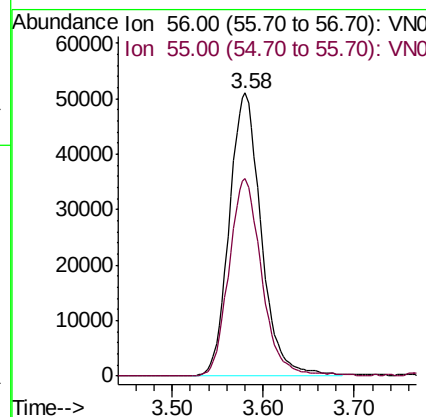
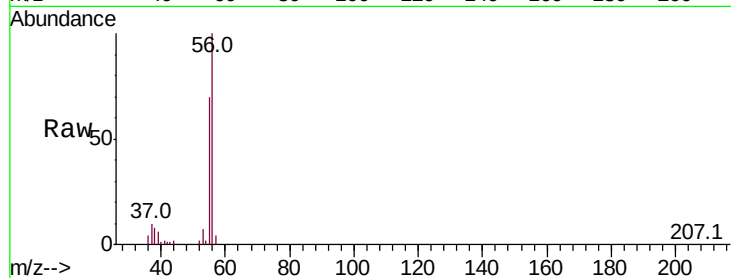
#13
Acrolein
Concen: 203.287 ug/l
RT: 3.58 min Scan# 562
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	56	Resp	124556
Ion Ratio	Lower	Upper	
56	100		
55	71.5	56.6	85.0

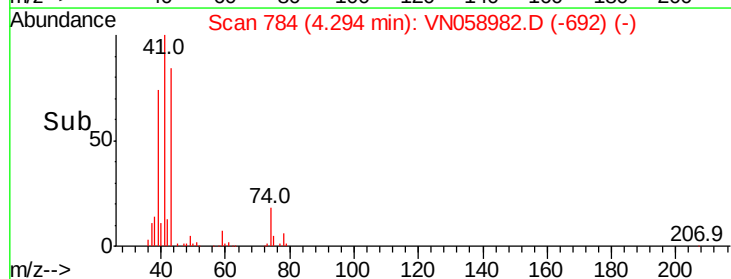
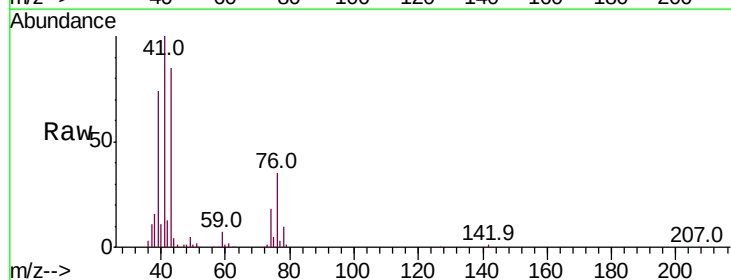
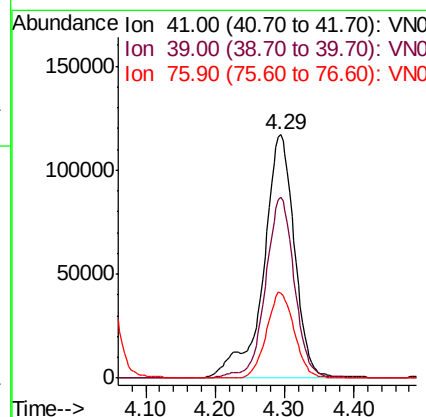
Manual Integrations
APPROVED

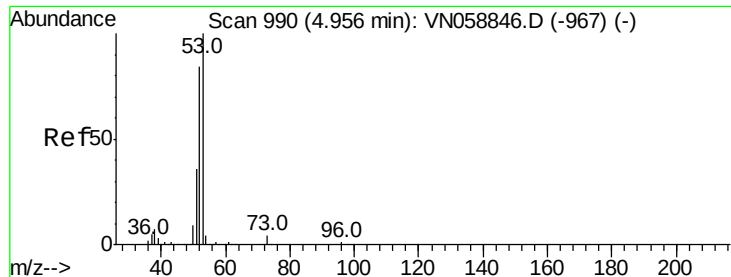
MMDadoda
10/28/2019 9:48:04 AM



#14
Allyl chloride
Concen: 49.803 ug/l m
RT: 4.29 min Scan# 784
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	41	Resp	363996
Ion Ratio	Lower	Upper	
41	100		
39	68.6	55.9	83.9
76	31.1	24.1	36.1





#15

Acrylonitrile

Concen: 240.139 ug/l

RT: 4.95 min Scan# 988

Delta R.T. -0.01 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

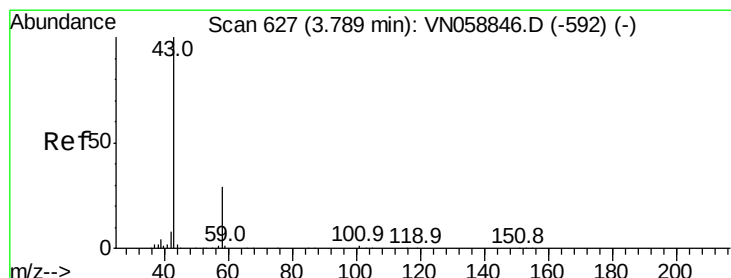
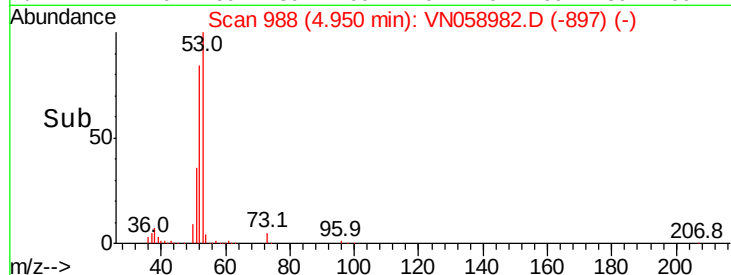
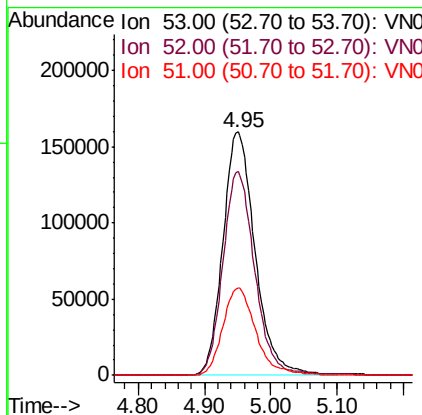
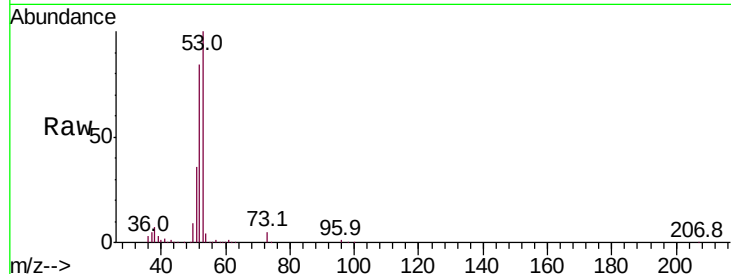
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	538645
Ion Ratio	Lower	Upper	
53	100		
52	82.5	66.6	99.8
51	37.0	29.2	43.8

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#16

Acetone

Concen: 232.096 ug/l

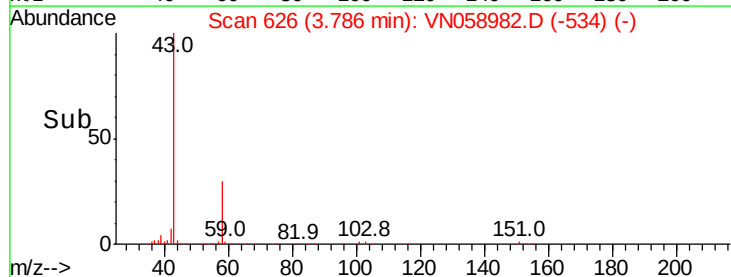
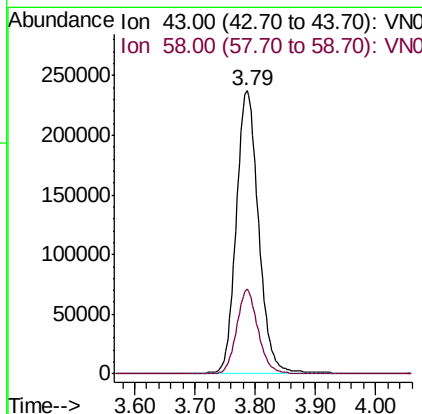
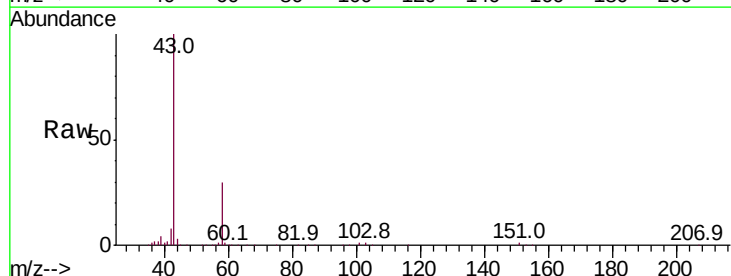
RT: 3.79 min Scan# 626

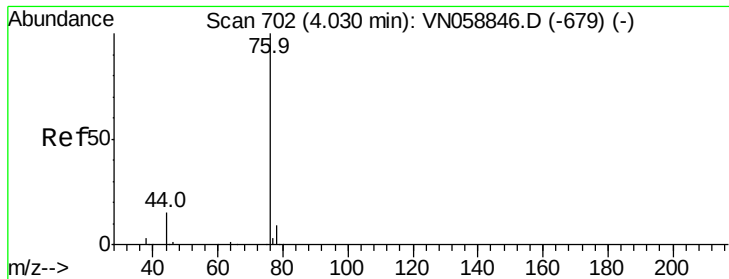
Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion:	43	Resp:	616287
Ion Ratio	Lower	Upper	
43	100		
58	29.9	23.1	34.7





#17

Carbon Disulfide

Concen: 44.208 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 514352

Ion Ratio Lower Upper

76 100

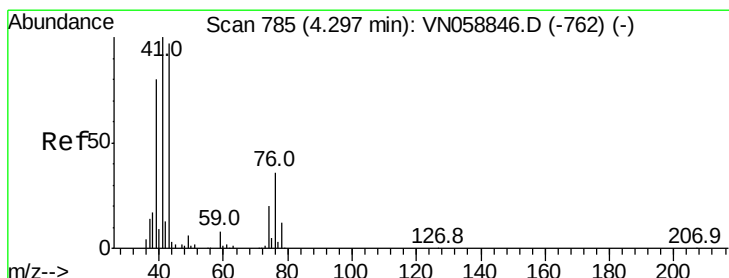
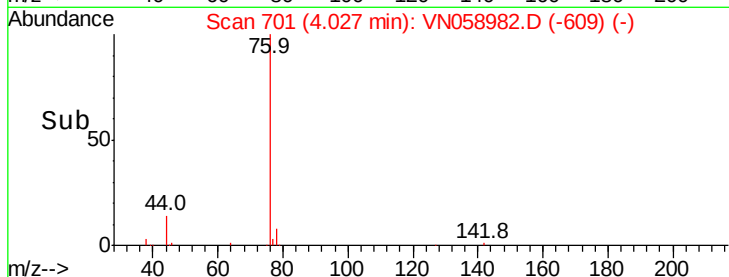
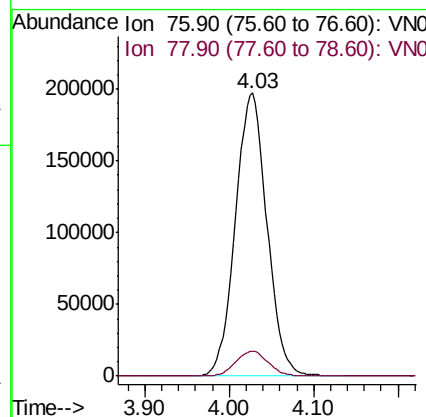
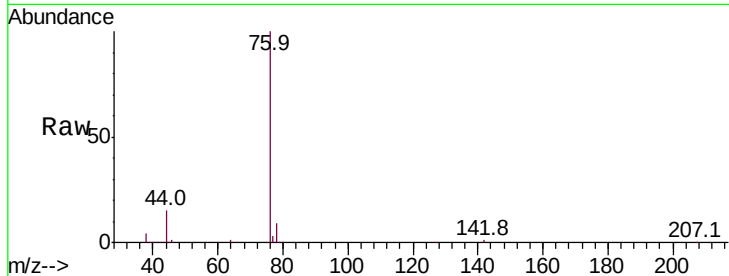
78 8.8 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#18

Methyl Acetate

Concen: 47.107 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN058982.D

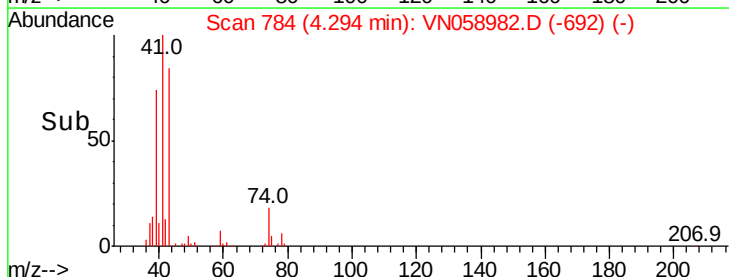
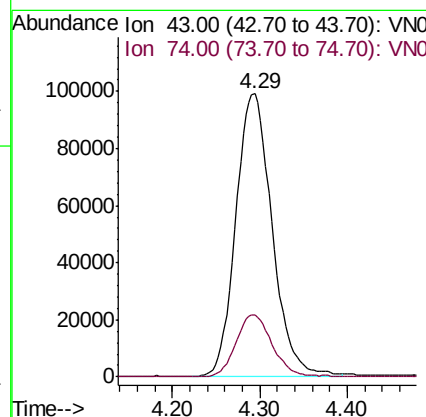
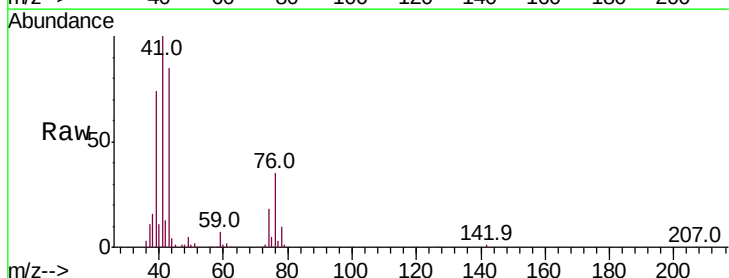
Acq: 25 Oct 2019 14:35

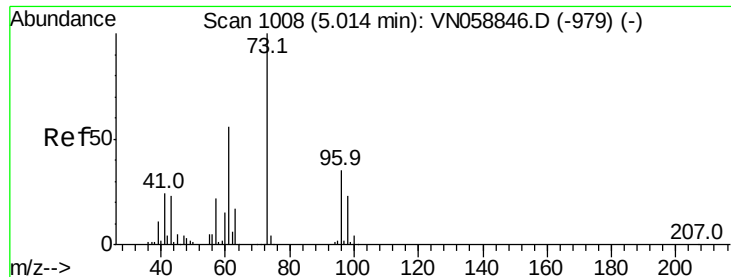
Tgt Ion: 43 Resp: 284382

Ion Ratio Lower Upper

43 100

74 21.8 17.1 25.7





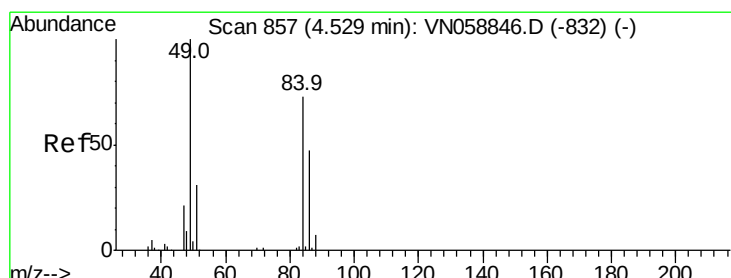
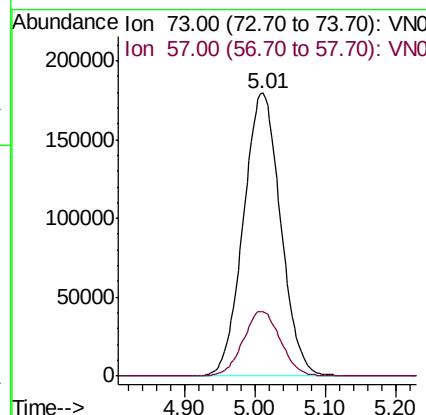
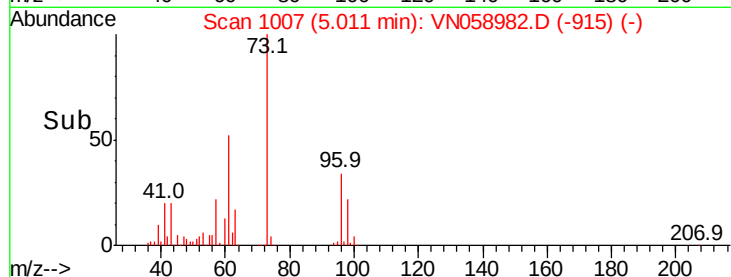
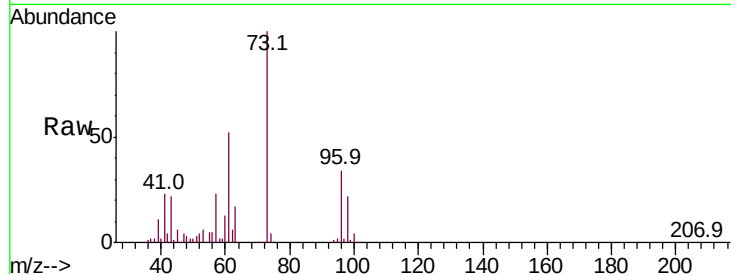
#19
Methyl tert-butyl Ether
Concen: 52.231 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 660577
Ion Ratio Lower Upper
73 100
57 22.8 17.9 26.9

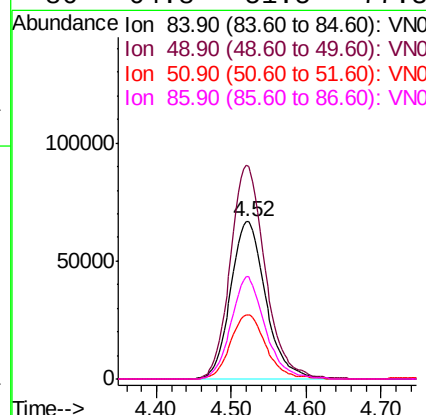
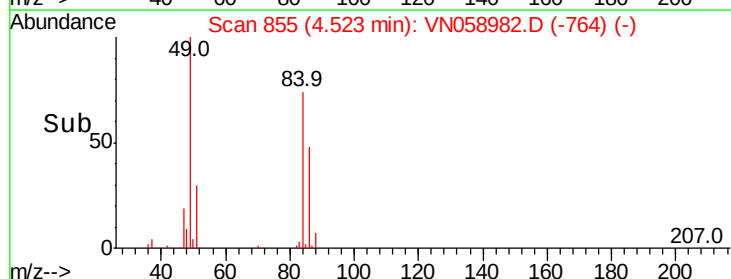
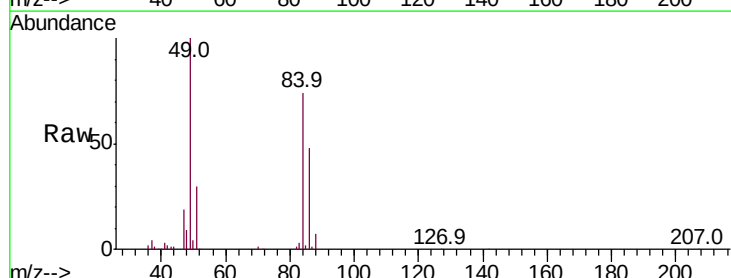
Manual Integrations
APPROVED

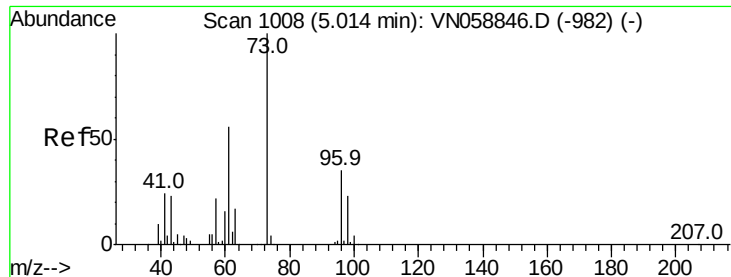
MMDadoda
10/28/2019 9:48:04 AM



#20
Methylene Chloride
Concen: 47.976 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion: 84 Resp: 217524
Ion Ratio Lower Upper
84 100
49 135.1 109.6 164.4
51 40.8 33.8 50.6
86 64.8 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 49.180 ug/l

RT: 5.01 min Scan# 1006

Delta R.T. -0.01 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 196168

Ion Ratio Lower Upper

96 100

61 157.5 126.7 190.1

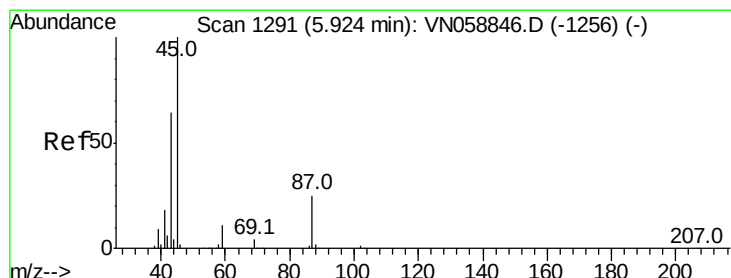
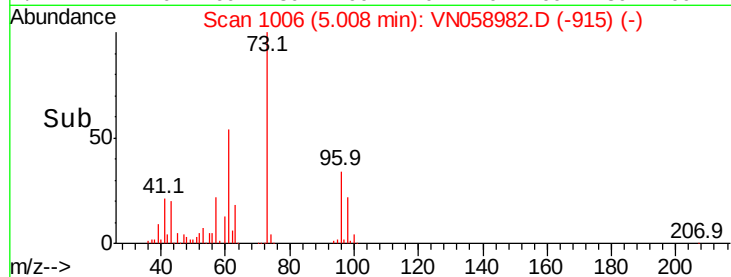
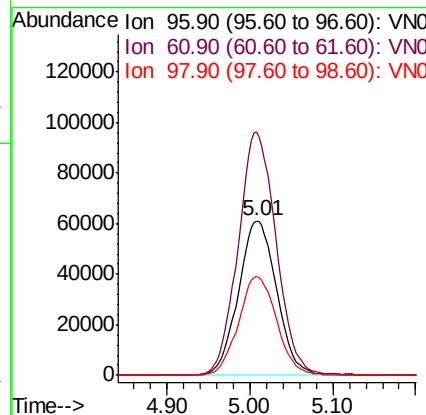
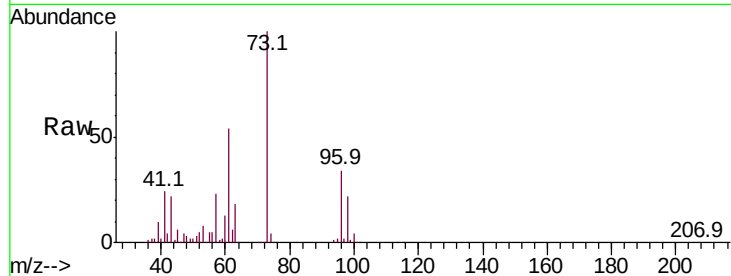
98 63.6 52.0 78.0

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#22

Diisopropyl ether

Concen: 53.144 ug/l

RT: 5.92 min Scan# 1289

Delta R.T. -0.01 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion: 45 Resp: 759727

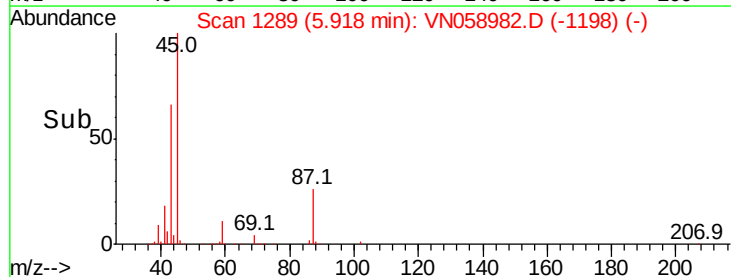
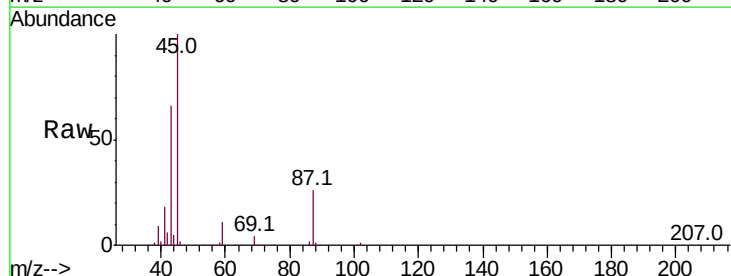
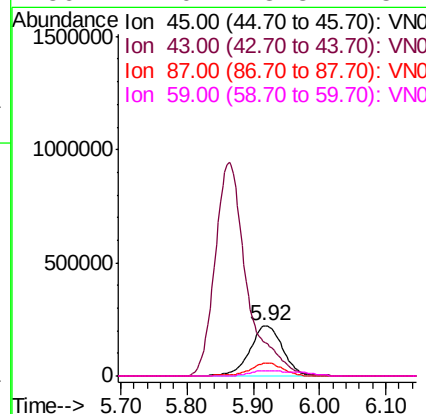
Ion Ratio Lower Upper

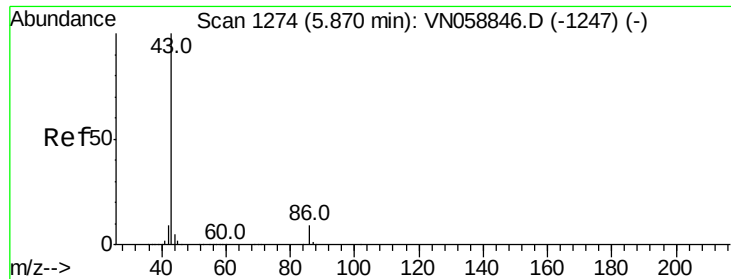
45 100

43 64.9 52.9 79.3

87 25.7 20.2 30.4

59 11.0 8.8 13.2





#23

Vinyl Acetate

Concen: 273.678 ug/l

RT: 5.86 min Scan# 1272

Delta R.T. -0.01 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 3143323

Ion Ratio Lower Upper

43 100

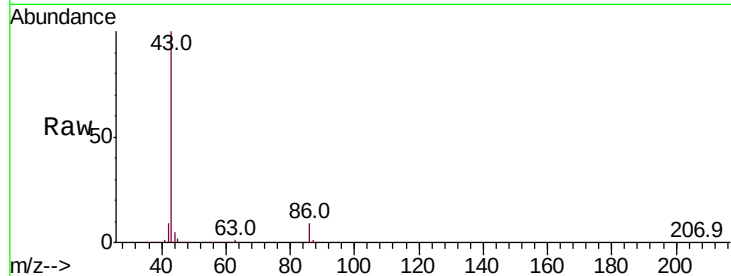
86 9.1 7.2 10.8

Manual Integrations

APPROVED

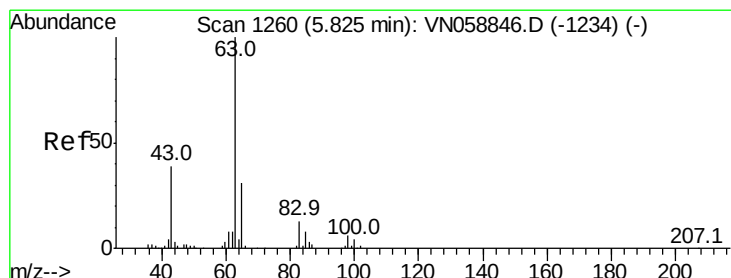
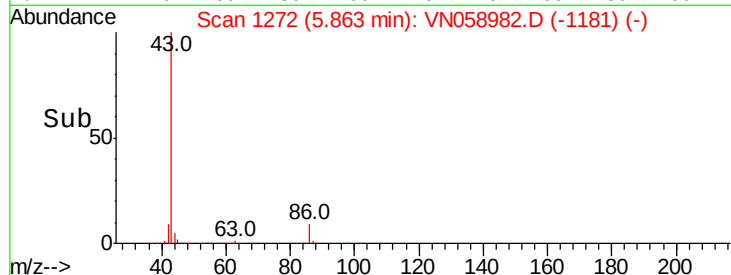
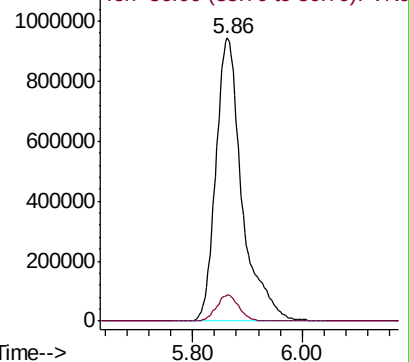
MMDadoda

10/28/2019 9:48:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO



#24

1,1-Dichloroethane

Concen: 49.654 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. -0.01 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

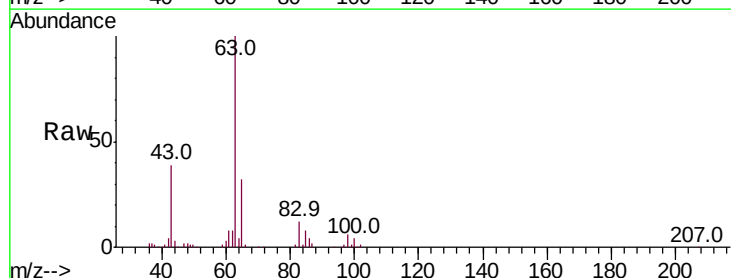
Tgt Ion: 63 Resp: 411591

Ion Ratio Lower Upper

63 100

98 5.6 2.8 8.4

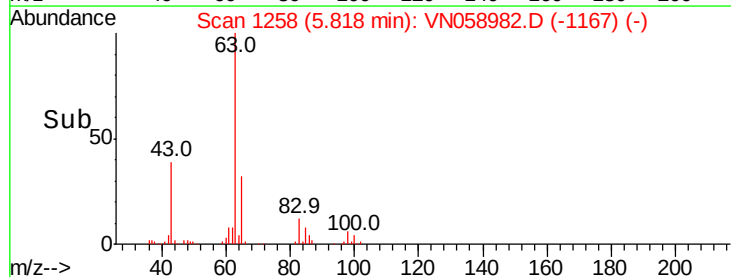
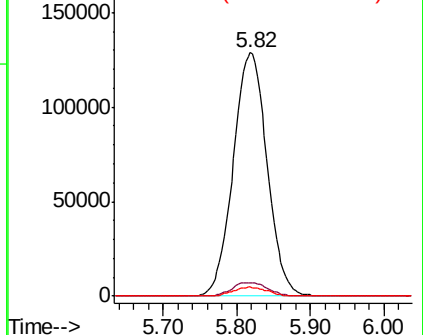
100 3.7 1.9 5.7

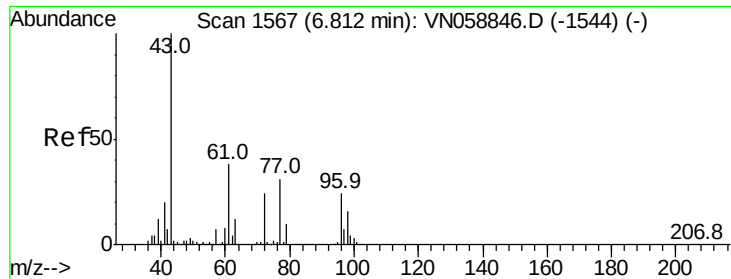


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO





#25

2-Butanone

Concen: 233.416 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 804555

Ion Ratio Lower Upper

43 100

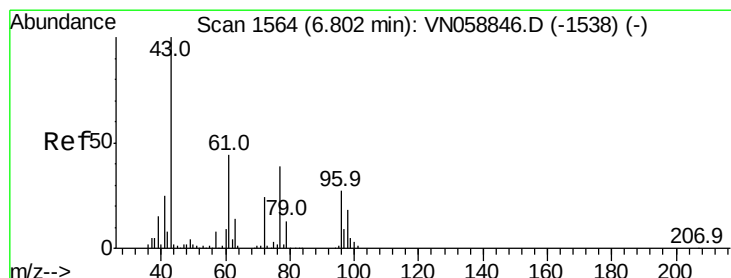
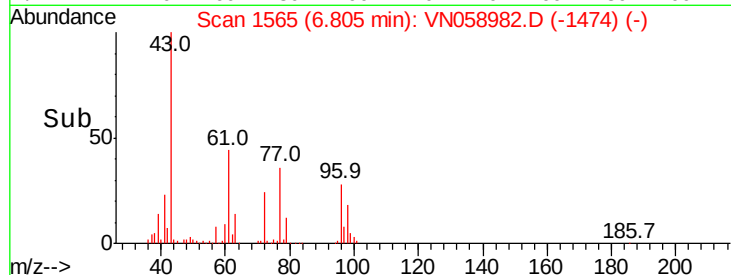
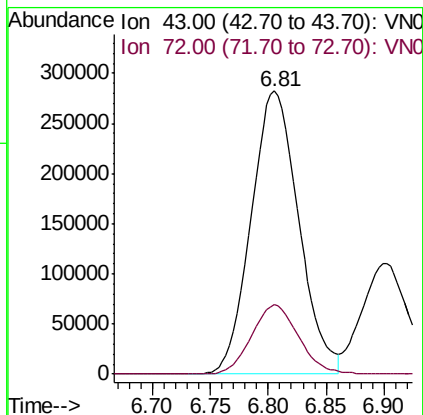
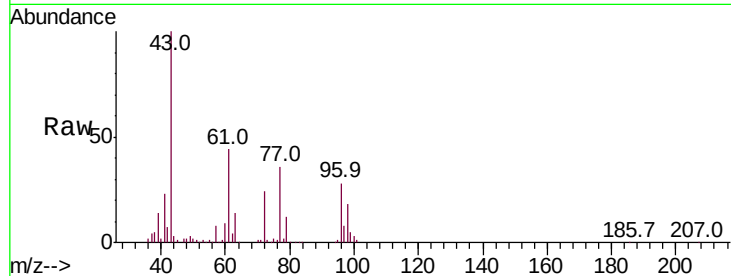
72 24.5 19.1 28.7

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#26

2,2-Dichloropropane

Concen: 50.979 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VN058982.D

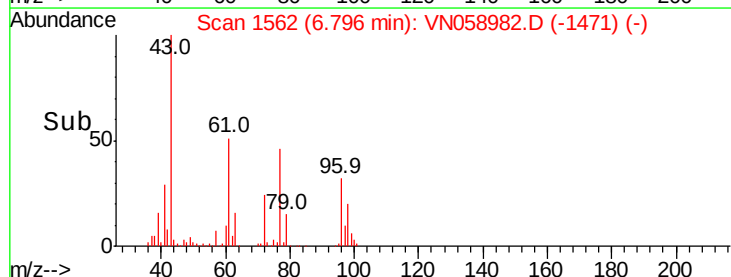
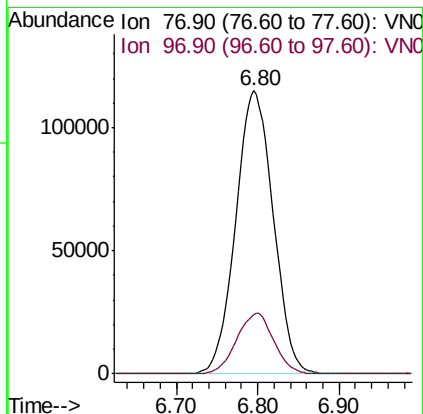
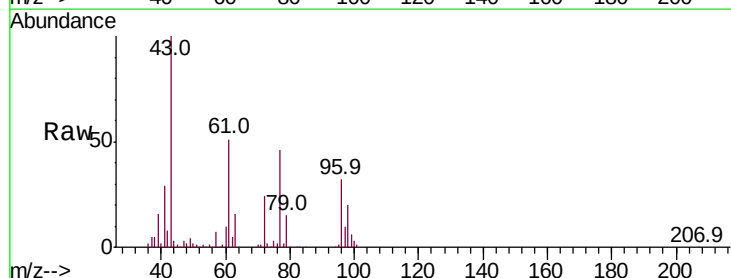
Acq: 25 Oct 2019 14:35

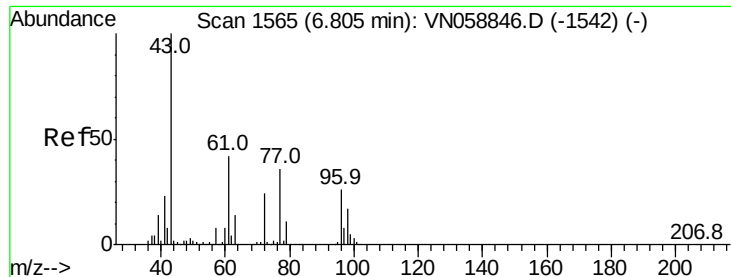
Tgt Ion: 77 Resp: 365520

Ion Ratio Lower Upper

77 100

97 21.2 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 51.810 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

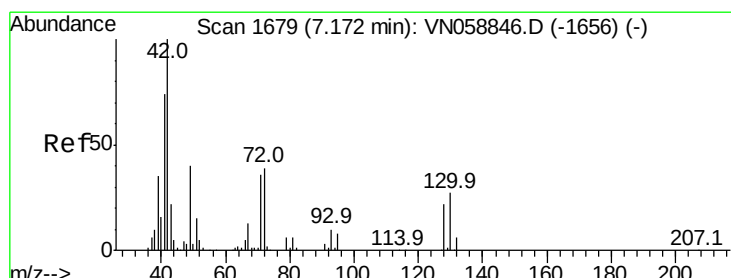
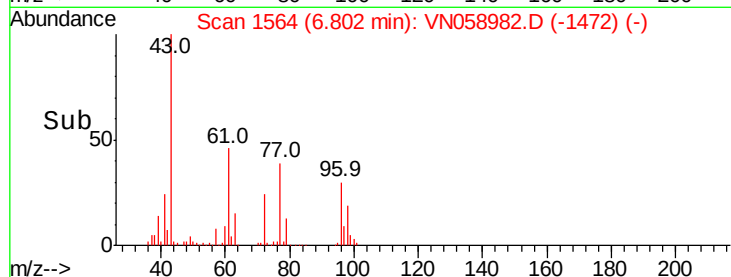
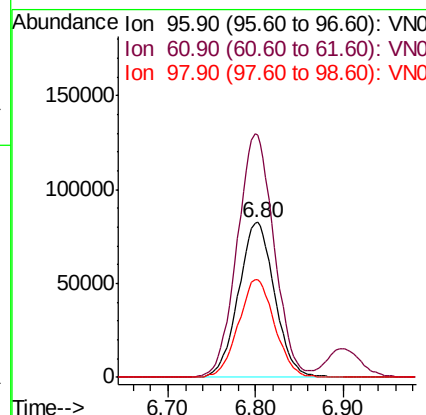
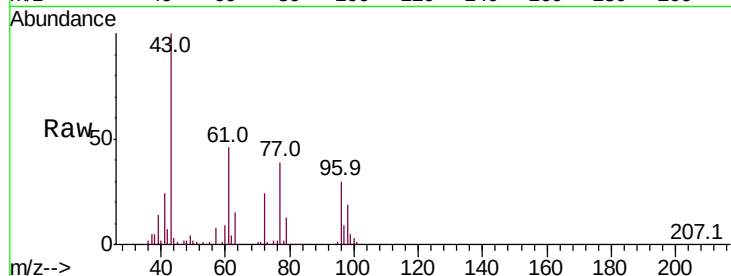
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	236077
Ion Ratio	Lower	Upper	
96	100		
61	160.0	0.0	325.0
98	63.3	0.0	128.0

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#28

Bromochloromethane

Concen: 48.180 ug/l

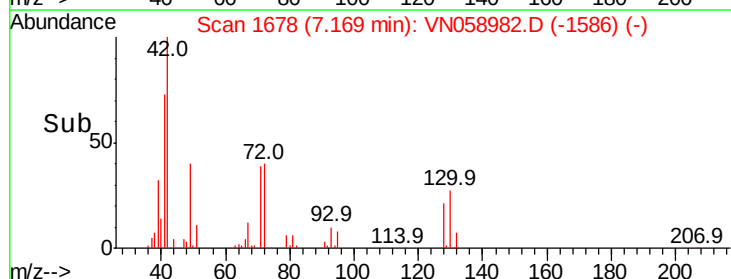
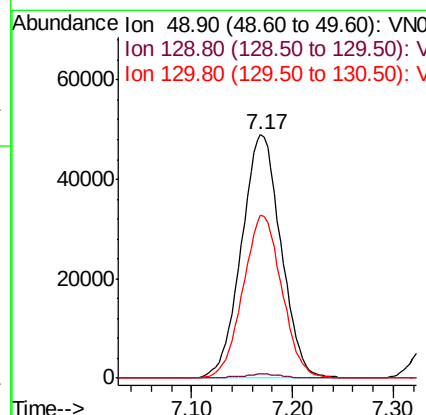
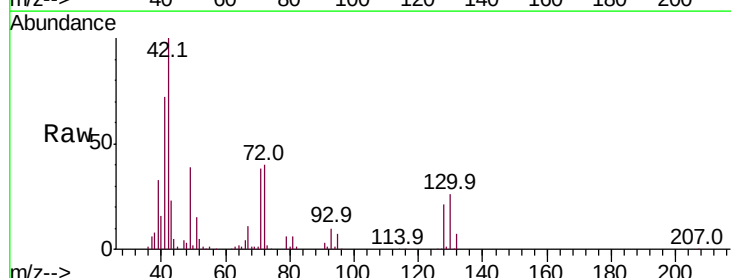
RT: 7.17 min Scan# 1678

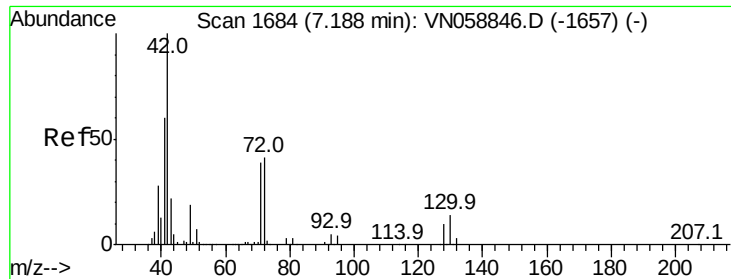
Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion:	49	Resp:	133008
Ion Ratio	Lower	Upper	
49	100		
129	1.6	0.0	3.2
130	65.8	53.5	80.3





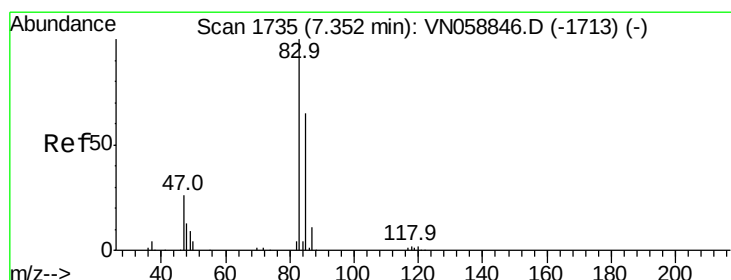
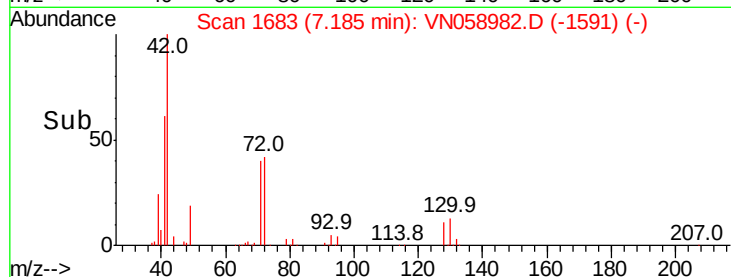
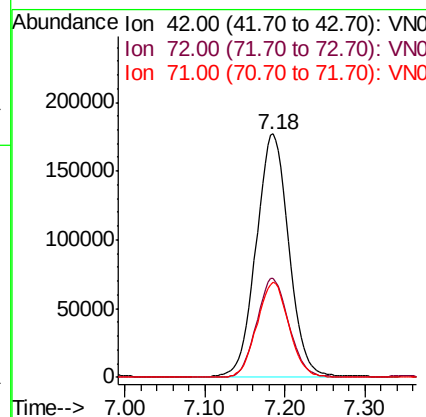
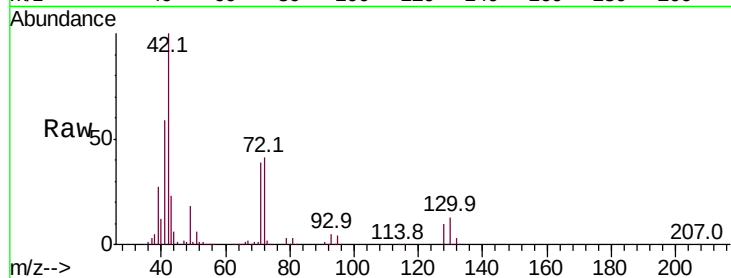
#29
Tetrahydrofuran
Concen: 236.329 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.0	32.2	48.2
71	38.2	30.6	45.8

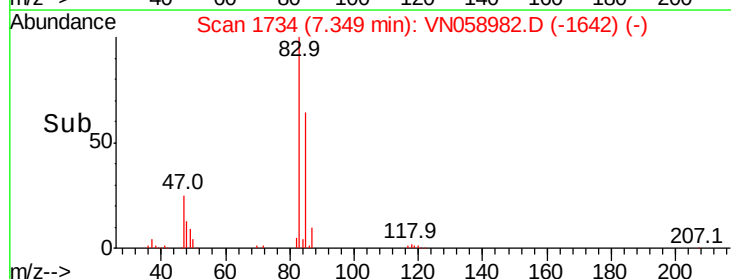
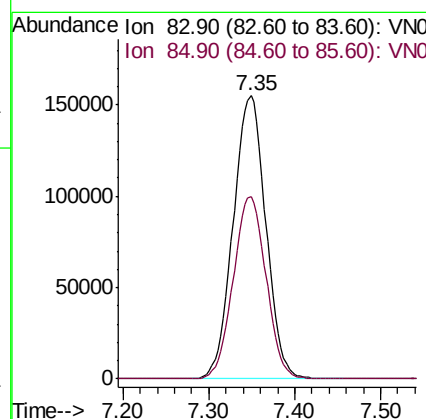
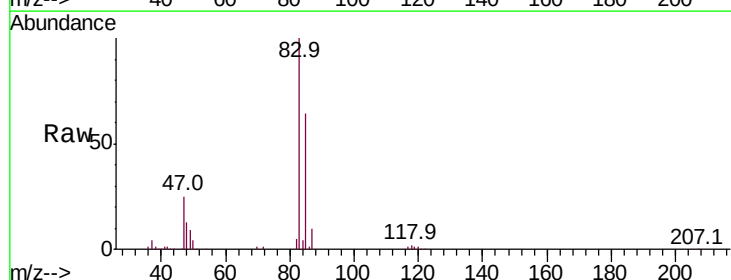
Manual Integrations
APPROVED

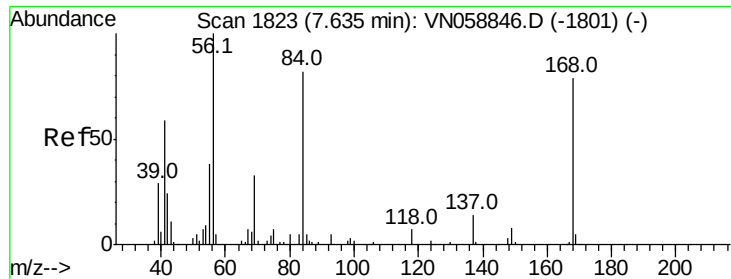
MMDadoda
10/28/2019 9:48:04 AM



#30
Chloroform
Concen: 49.206 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.9	77.9





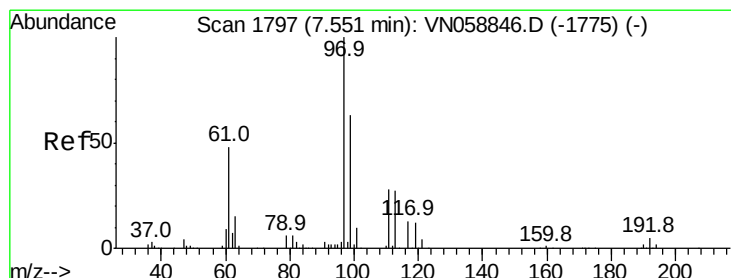
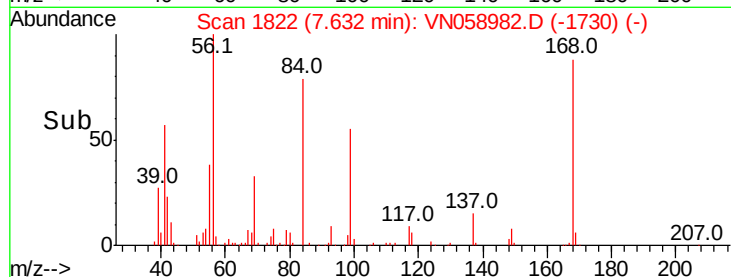
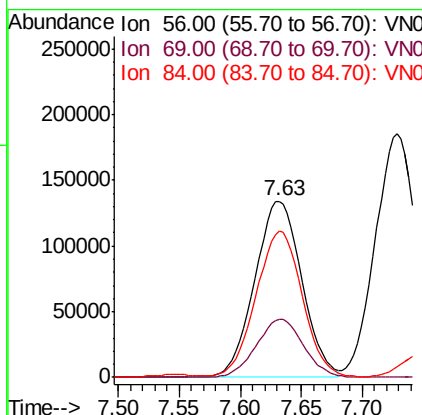
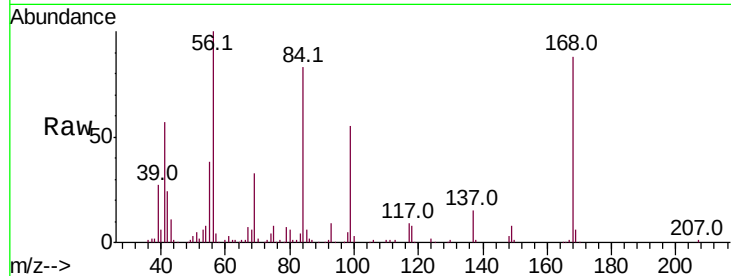
#31
Cyclohexane
Concen: 46.579 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.9	26.2	39.4
84	81.8	65.6	98.4

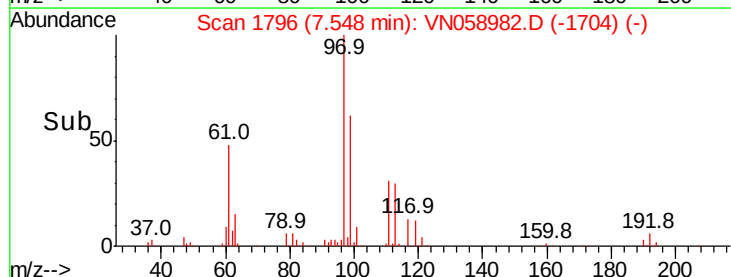
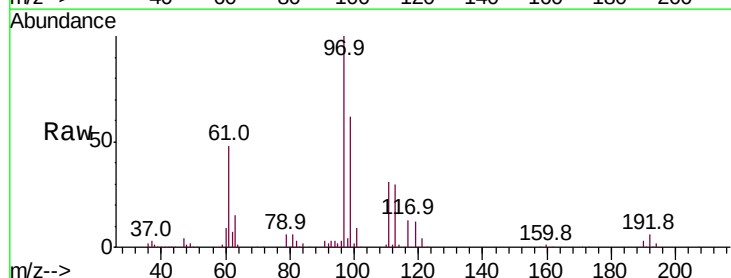
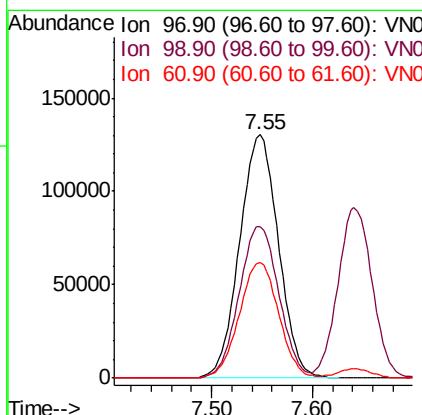
Manual Integrations
APPROVED

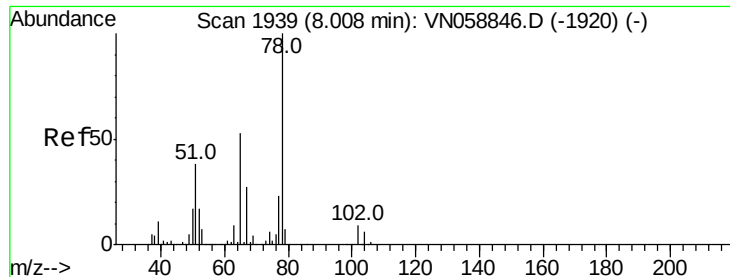
MMDadoda
10/28/2019 9:48:04 AM



#32
1,1,1-Trichloroethane
Concen: 49.613 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.4
61	48.4	38.6	58.0





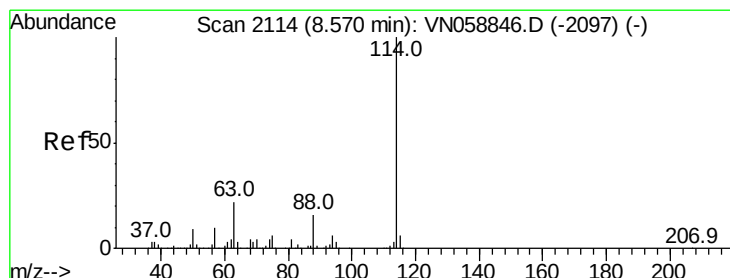
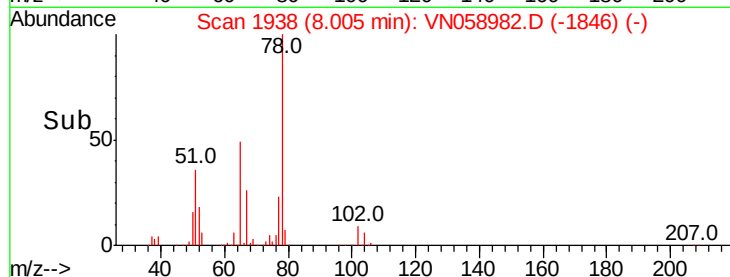
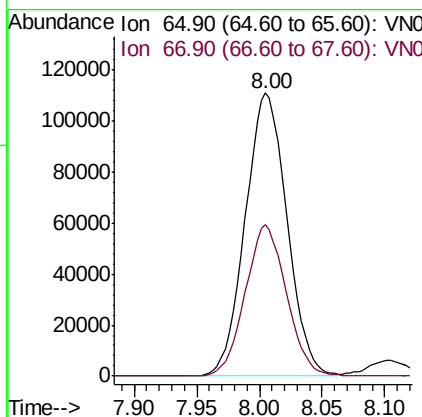
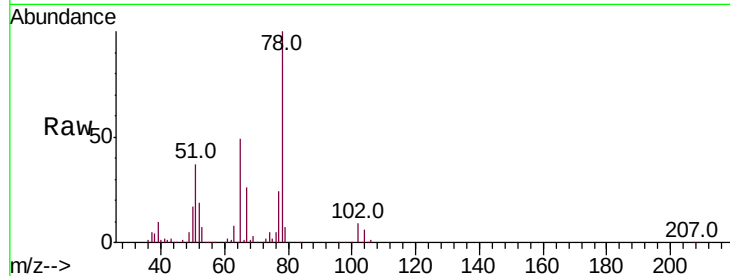
#33
 1,2-Dichloroethane-d4
 Concen: 47.923 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN058982.D
 Acq: 25 Oct 2019 14:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.2

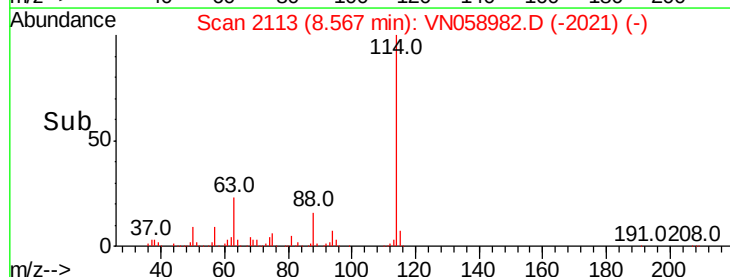
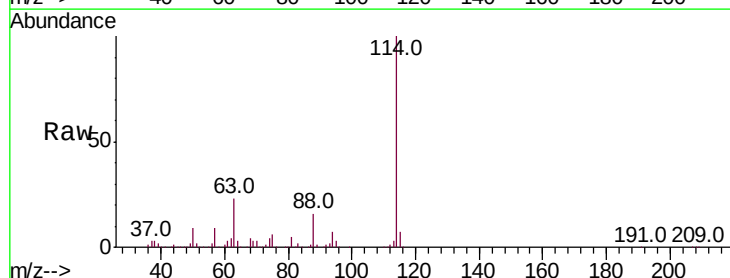
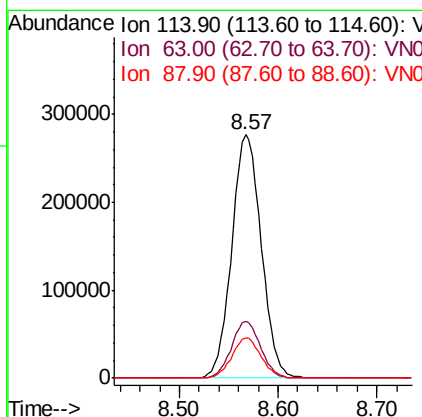
Manual Integrations
 APPROVED

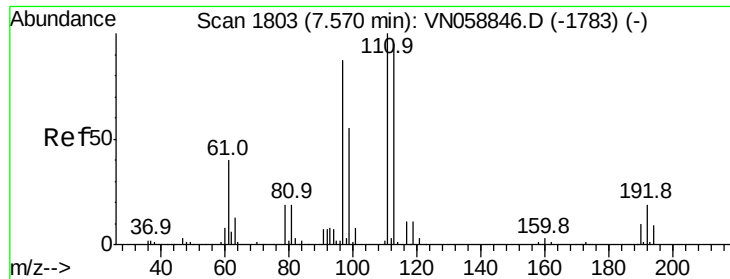
MMDadoda
 10/28/2019 9:48:04 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN058982.D
 Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	44.4
88	16.4	0.0	31.4





#35

Dibromofluoromethane

Concen: 50.014 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

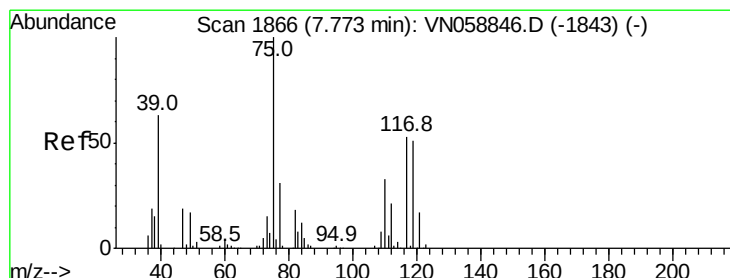
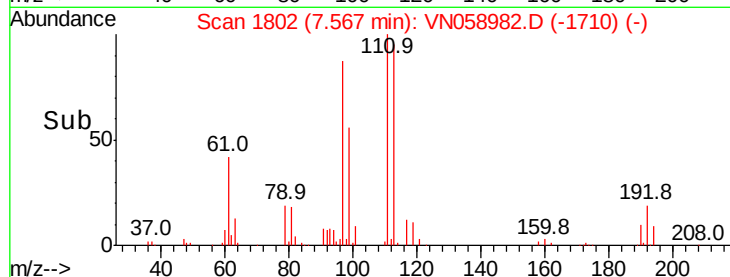
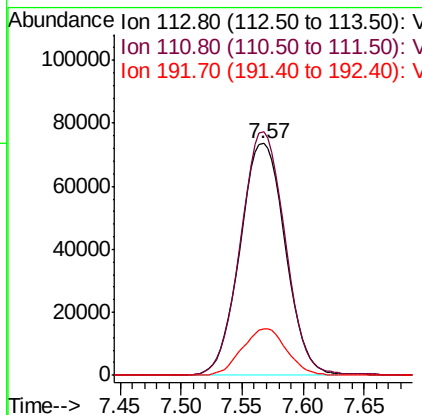
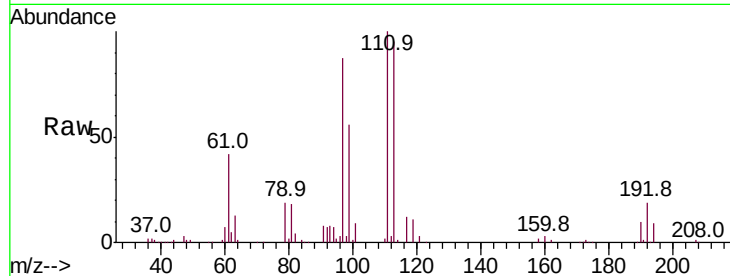
ClientSampleId :

VSTDCCC050EC

Tot Ion:	113	Resp:	189586
Ion Ratio	Lower	Upper	
113	100		
111	103.2	82.0	123.0
192	19.7	15.0	22.6

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#36

1,1-Dichloropropene

Concen: 51.714 ug/l

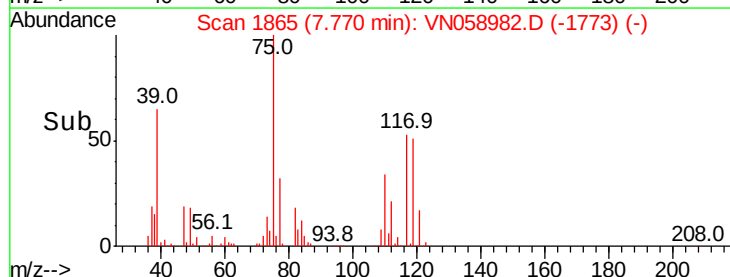
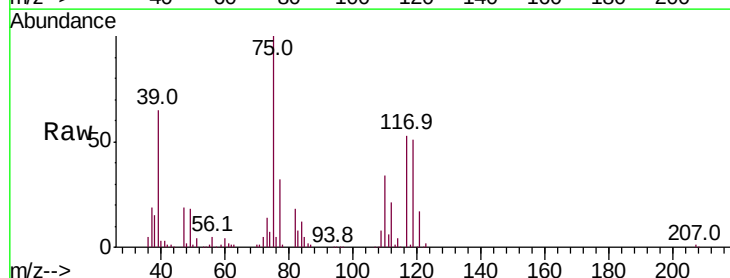
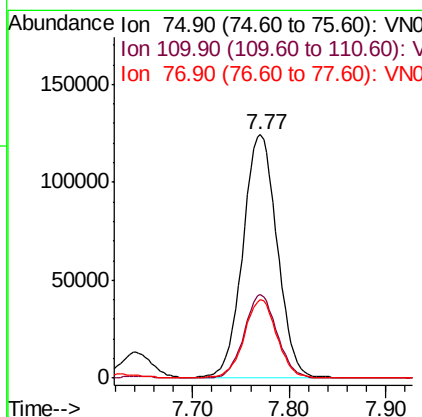
RT: 7.77 min Scan# 1865

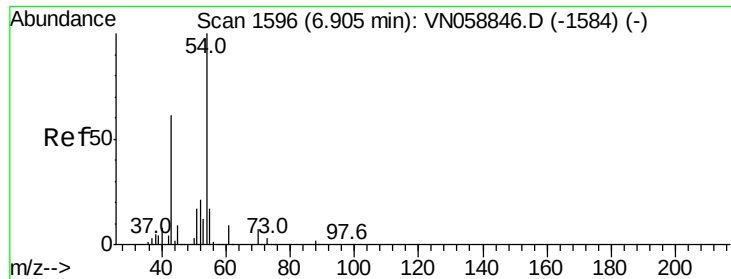
Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion:	75	Resp:	305247
Ion Ratio	Lower	Upper	
75	100		
110	32.9	16.3	48.9
77	31.0	24.6	36.8





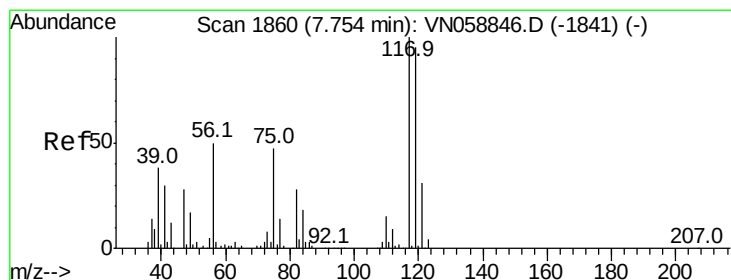
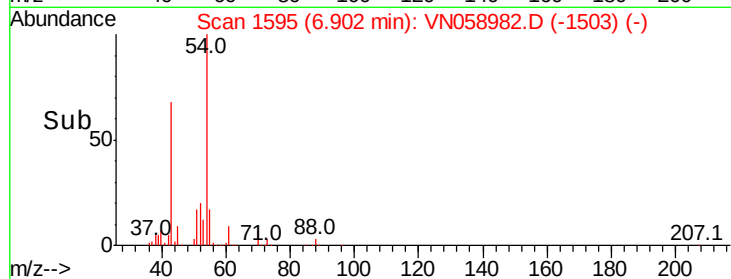
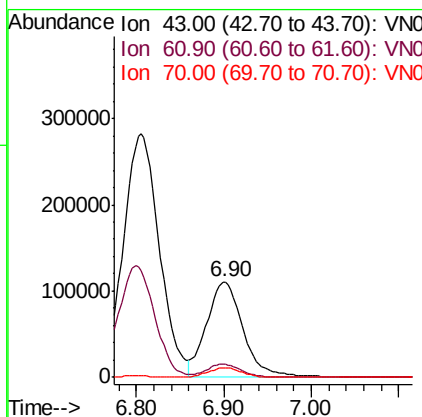
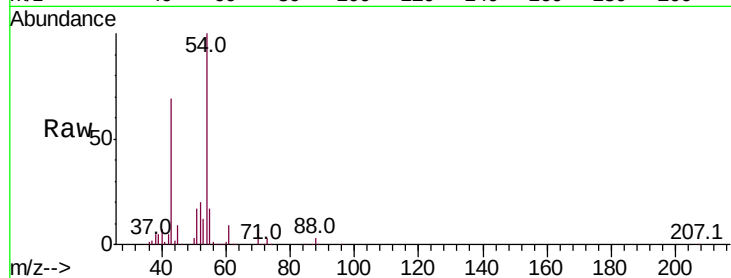
#37
Ethyl Acetate
Concen: 49.223 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.5	15.7
70	9.5	7.6	11.4

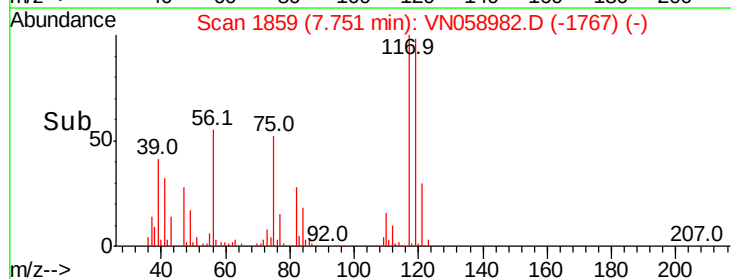
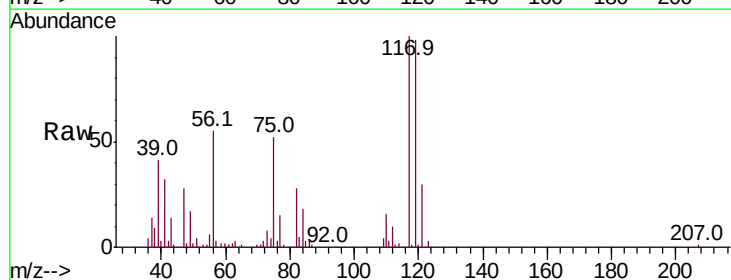
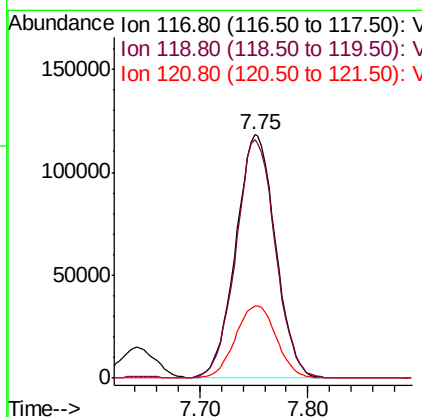
Manual Integrations
APPROVED

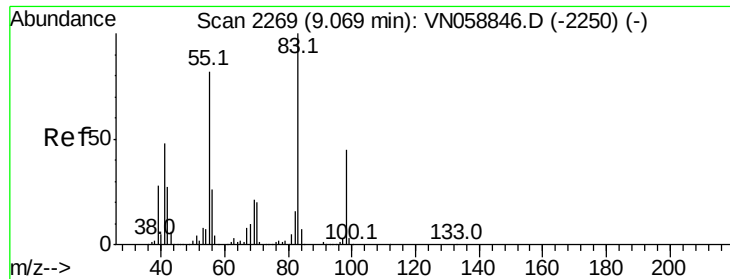
MMDadoda
10/28/2019 9:48:04 AM



#38
Carbon Tetrachloride
Concen: 49.845 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.7	75.7	113.5
121	29.6	25.0	37.6





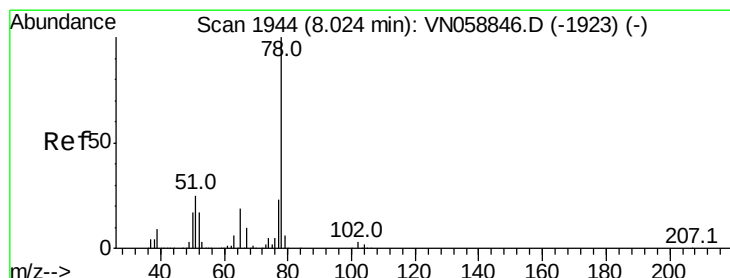
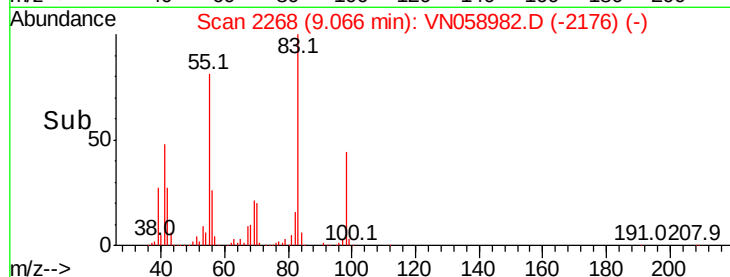
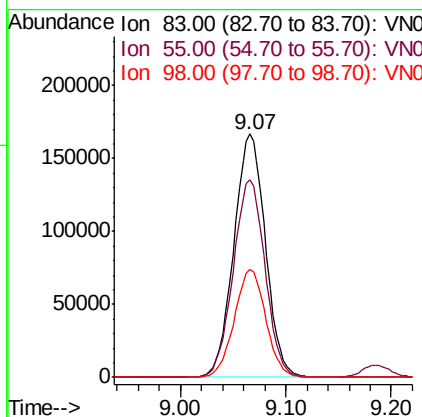
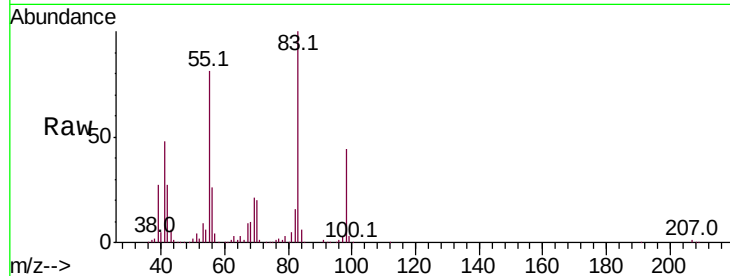
#39
Methylvlcyclohexane
Concen: 52.193 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	81.3	65.5	98.3	
98	44.2	35.7	53.5	

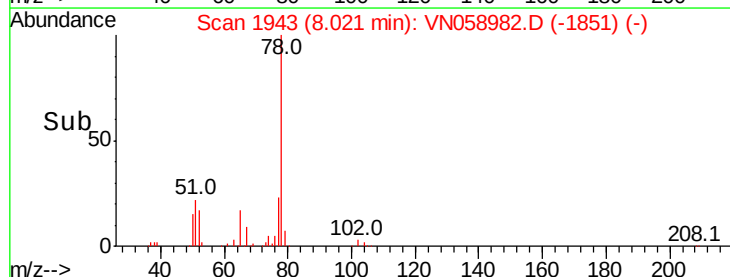
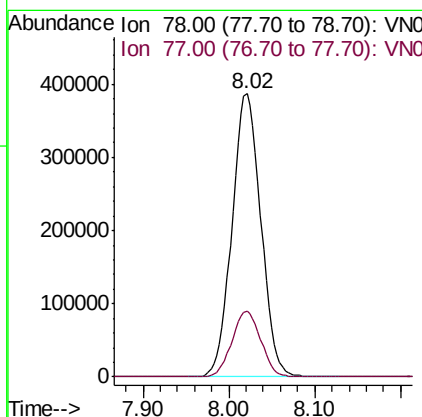
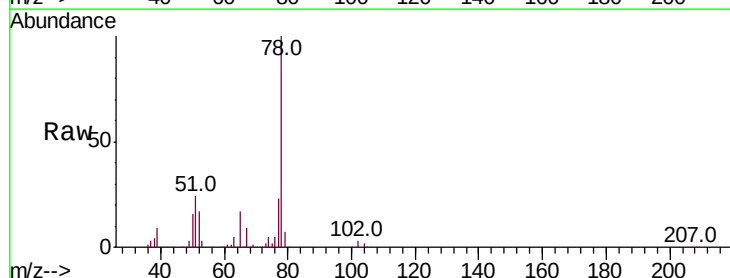
Manual Integrations
APPROVED

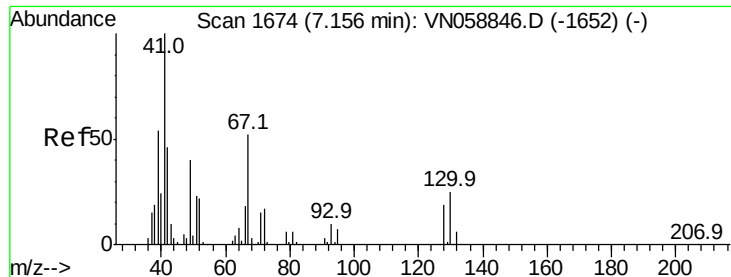
MMDadoda
10/28/2019 9:48:04 AM



#40
Benzene
Concen: 51.902 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.1	18.2	27.2	





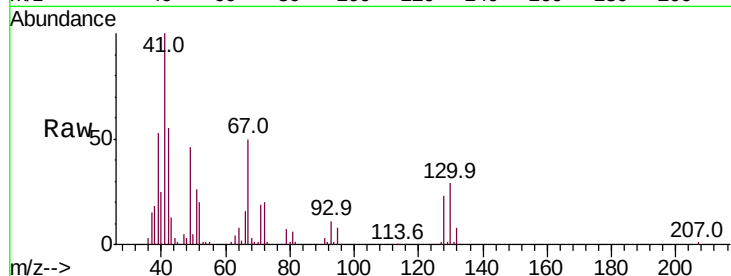
#41
Methacrylonitrile
Concen: 50.080 ug/l m
RT: 7.15 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

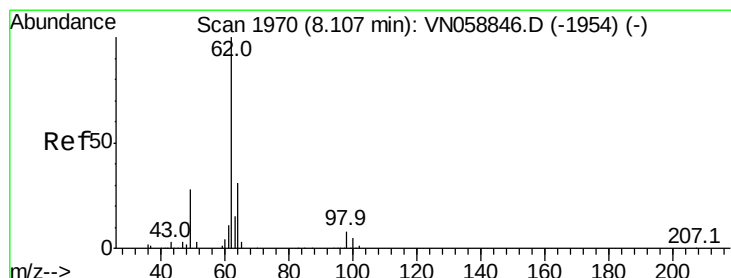
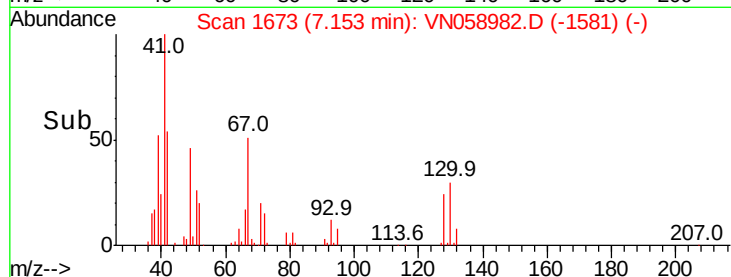
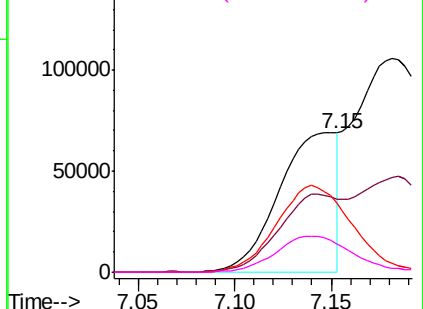
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM

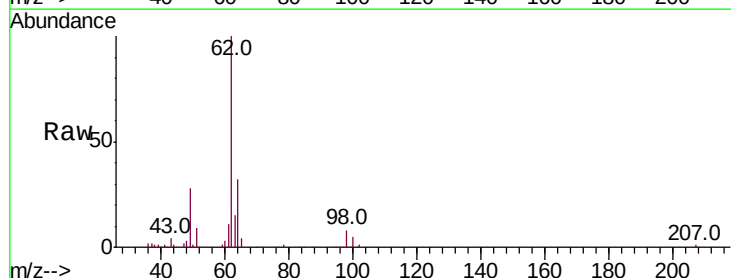


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

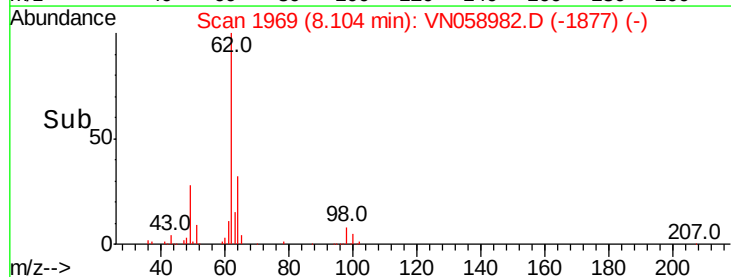
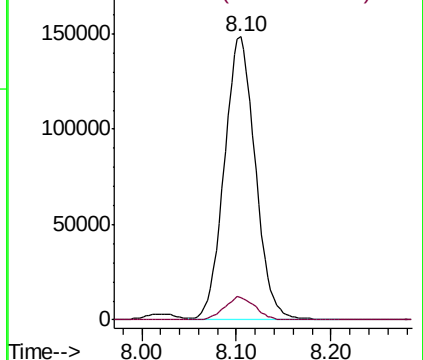


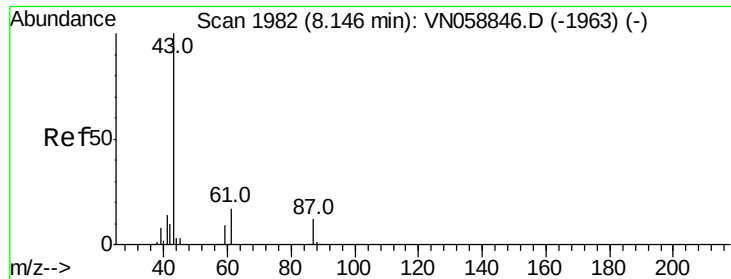
#42
1,2-Dichloroethane
Concen: 50.539 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	16.2



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





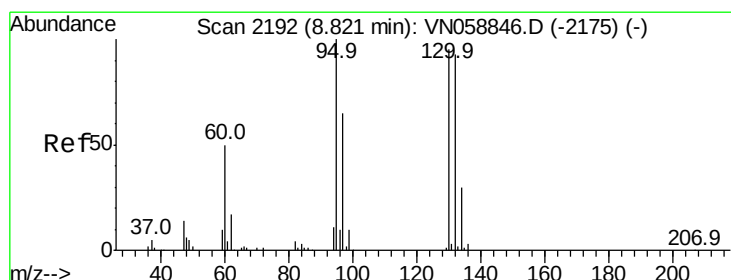
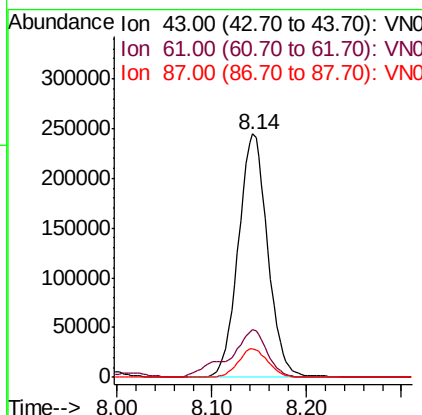
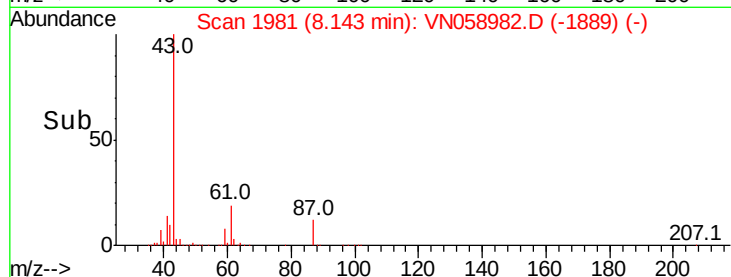
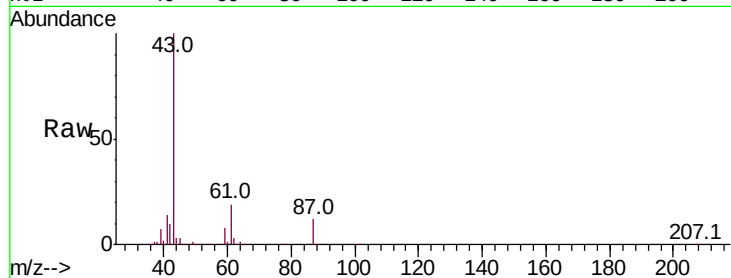
#43
Isopropyl Acetate
Concen: 50.804 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.2	20.2	30.2
87	12.0	9.5	14.3

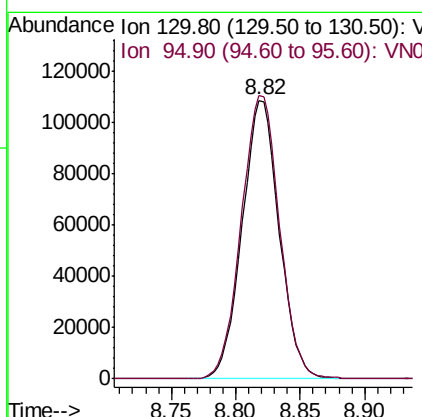
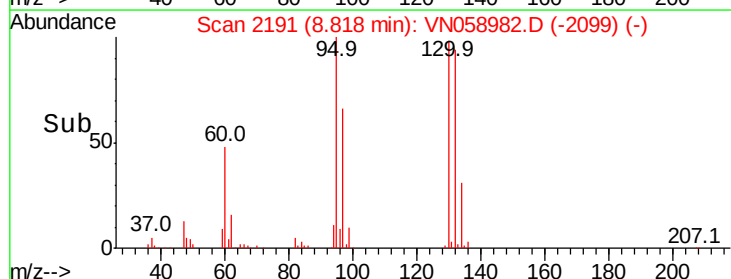
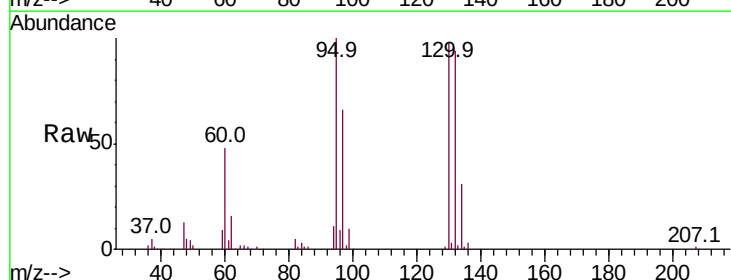
Manual Integrations
APPROVED

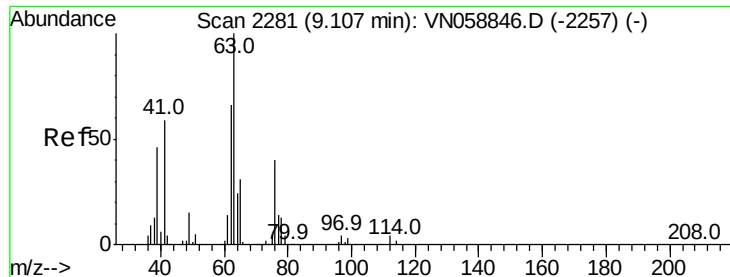
MMDadoda
10/28/2019 9:48:04 AM



#44
Trichloroethene
Concen: 51.533 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	209.6





#45

1,2-Dichloropropane

Concen: 52.590 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 249958

Ion Ratio Lower Upper

63 100

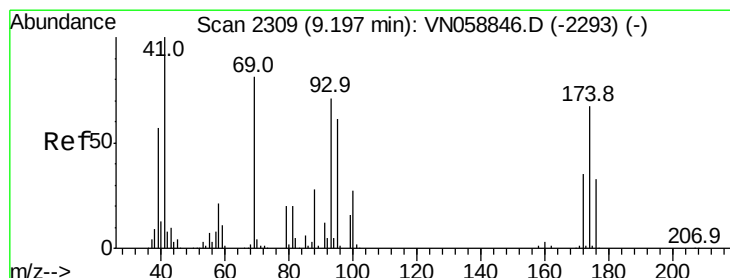
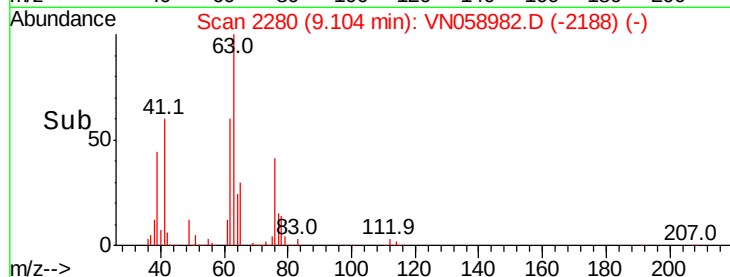
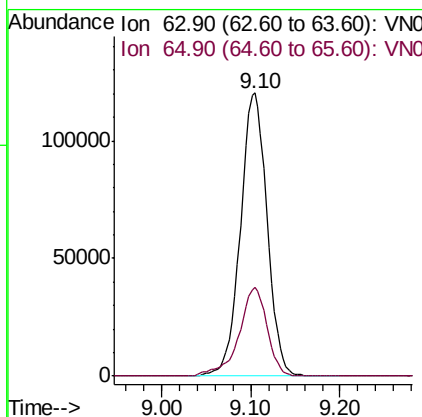
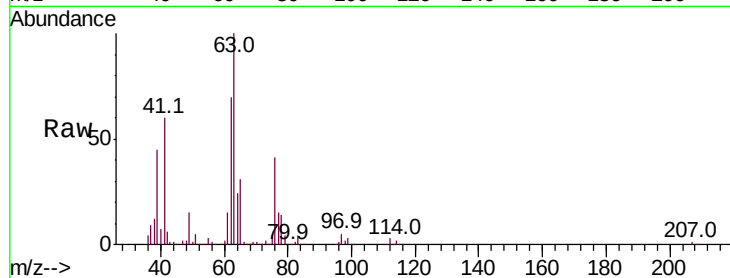
65 31.2 24.5 36.7

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#46

Dibromomethane

Concen: 51.379 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

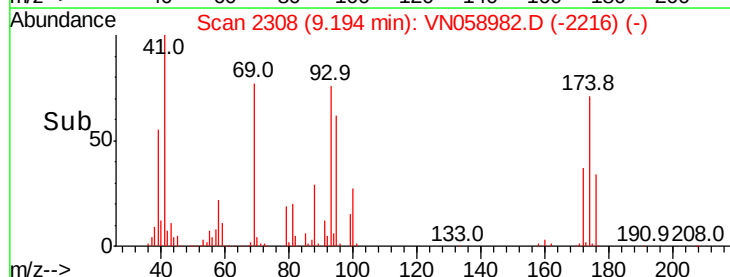
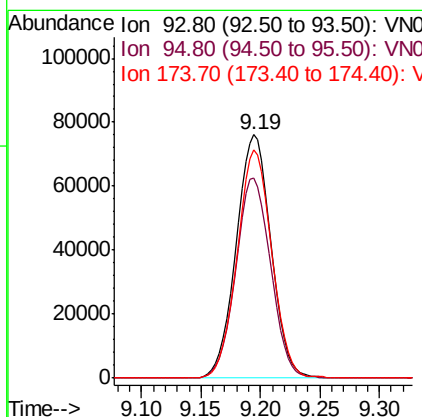
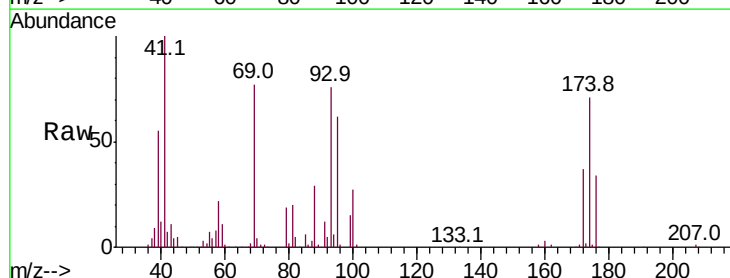
Tgt Ion: 93 Resp: 154378

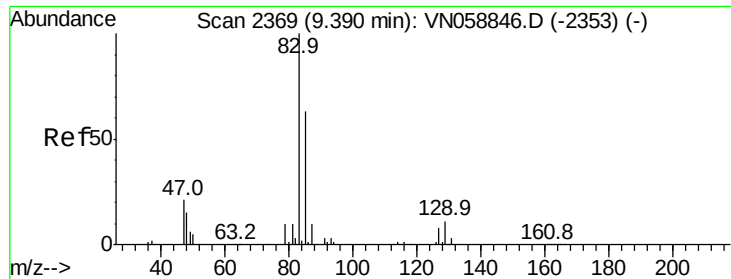
Ion Ratio Lower Upper

93 100

95 82.5 67.6 101.4

174 93.0 74.1 111.1





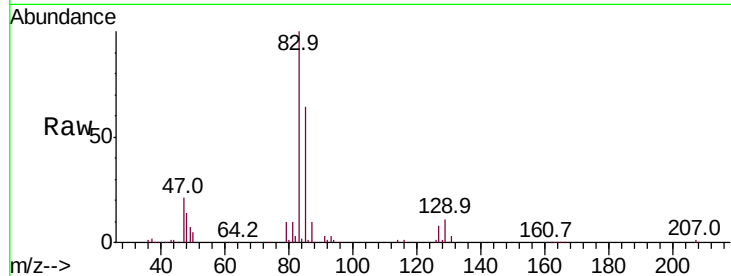
#47
Bromodichloromethane
Concen: 52.684 ug/l
RT: 9.39 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	63.8	50.6	75.8	
127	8.3	6.5	9.7	

Manual Integrations
APPROVED

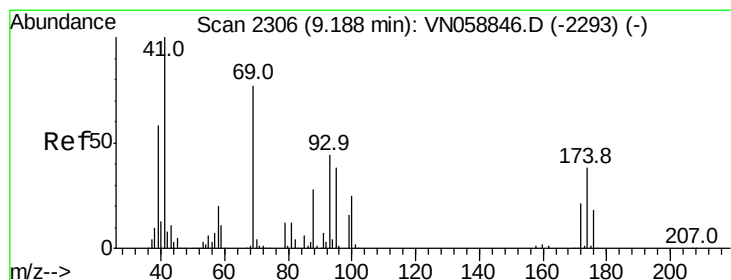
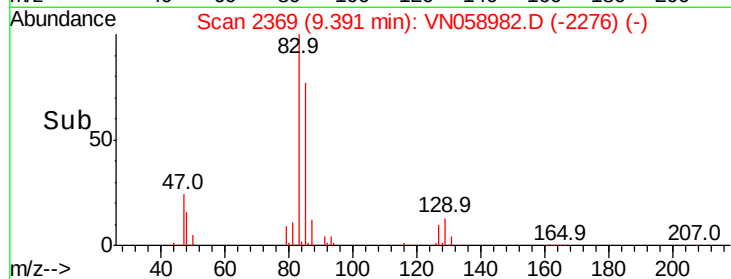
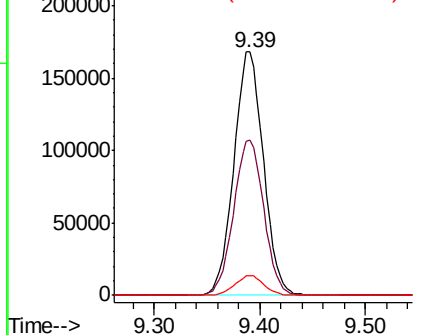
MMDadoda
10/28/2019 9:48:04 AM



Abundance Ion 82.90 (82.60 to 83.60): VN058846.D (-2353) (-)

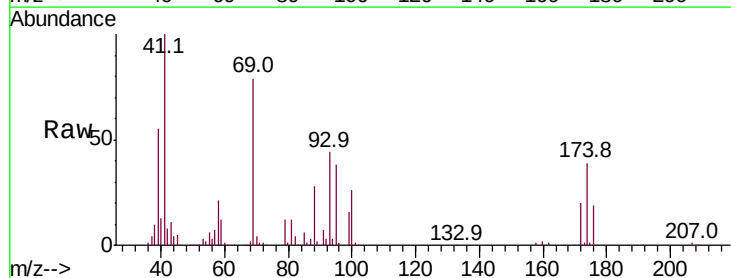
Ion 84.90 (84.60 to 85.60): VN058846.D (-2353) (-)

Ion 126.80 (126.50 to 127.50): VN058846.D (-2353) (-)



#48
Methyl methacrylate
Concen: 53.505 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

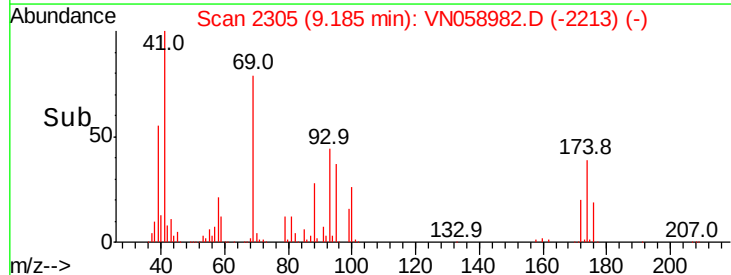
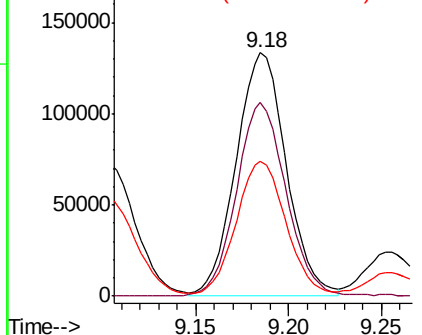
Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	78.9	63.8	95.6	
39	55.1	47.8	71.8	

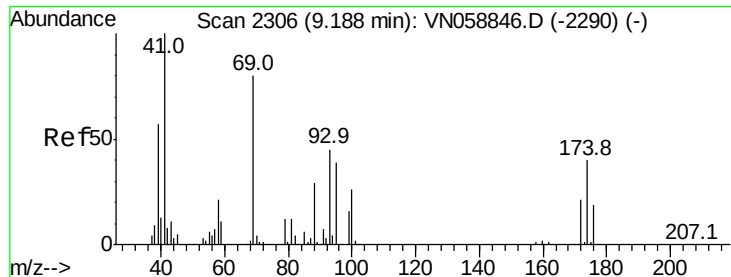


Abundance Ion 41.00 (40.70 to 41.70): VN058846.D (-2293) (-)

Ion 69.00 (68.70 to 69.70): VN058846.D (-2293) (-)

Ion 39.00 (38.70 to 39.70): VN058846.D (-2293) (-)





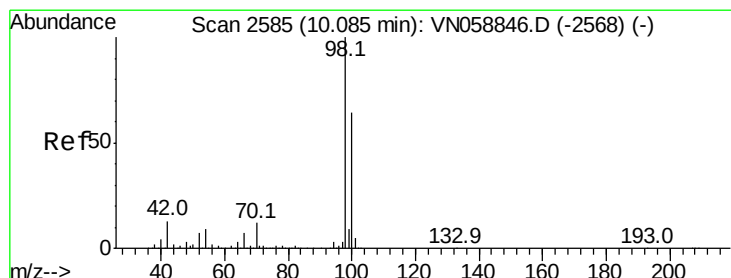
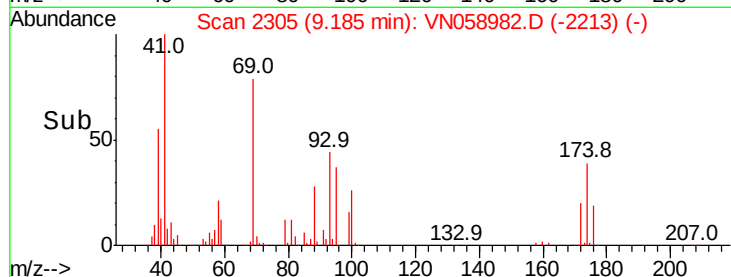
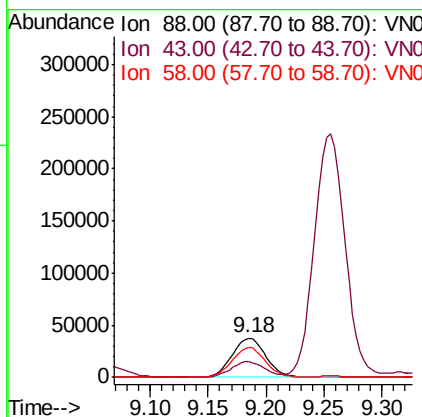
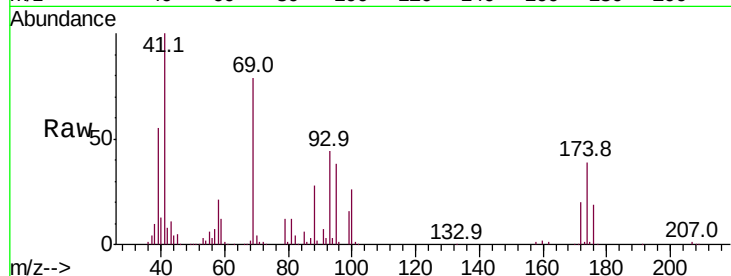
#49
1,4-Dioxane
Concen: 1003.598 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 88 Resp: 77100
Ion Ratio Lower Upper
88 100
43 36.8 29.1 43.7
58 73.4 59.4 89.0

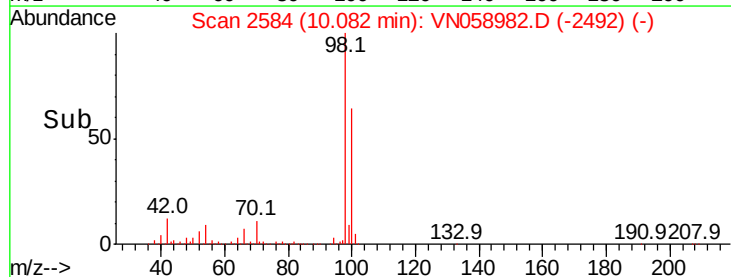
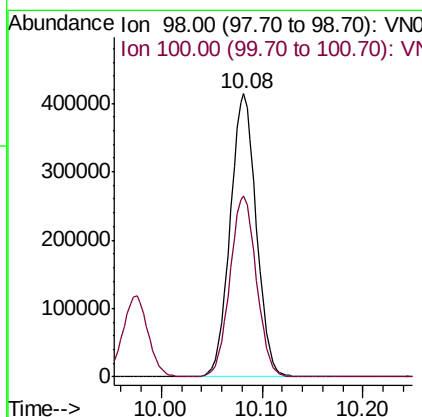
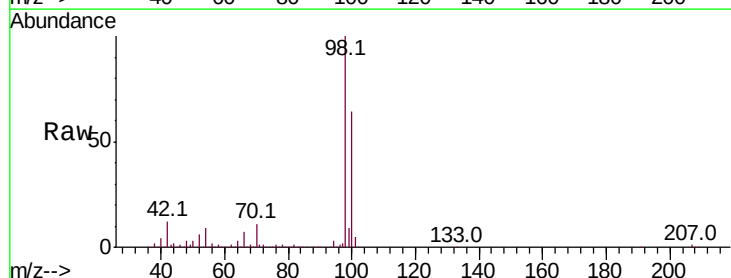
Manual Integrations
APPROVED

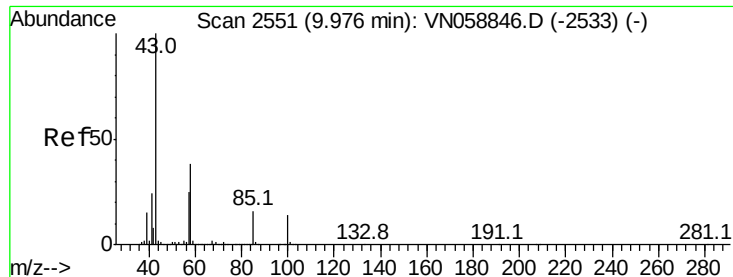
MMDadoda
10/28/2019 9:48:04 AM



#50
Toluene-d8
Concen: 50.645 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion: 98 Resp: 745230
Ion Ratio Lower Upper
98 100
100 64.8 51.4 77.2





#51

4-Methyl-2-Pentanone

Concen: 268.476 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1617523

Ion Ratio Lower Upper

43 100

58 37.6

29.9

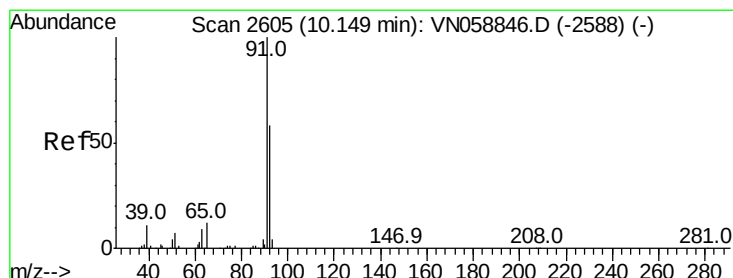
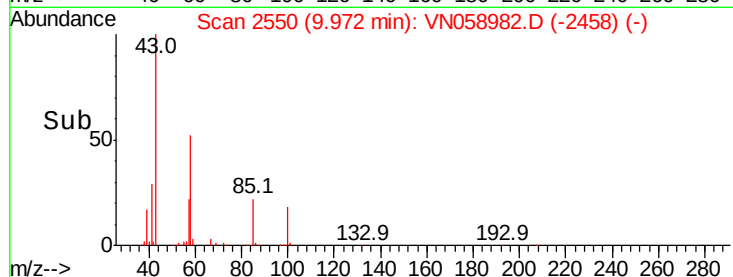
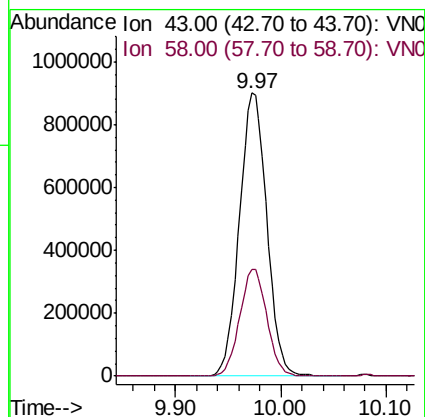
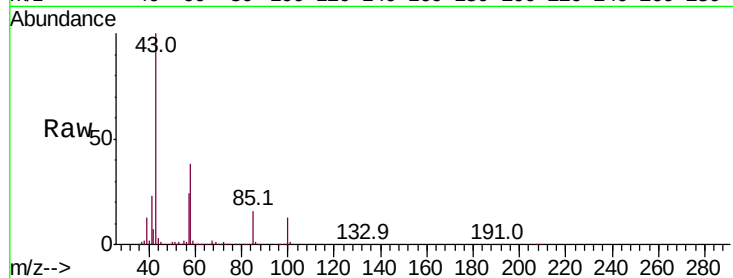
44.9

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#52

Toluene

Concen: 54.969 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion: 92 Resp: 565005

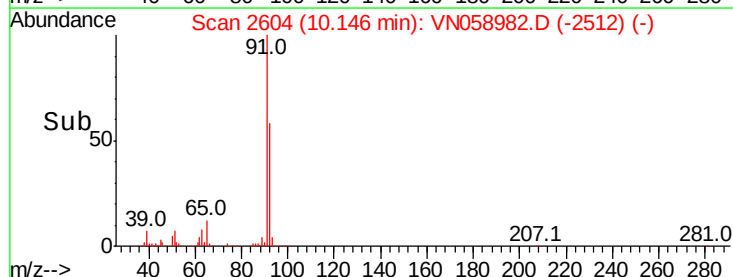
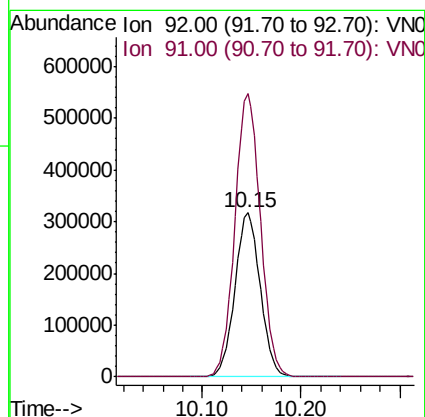
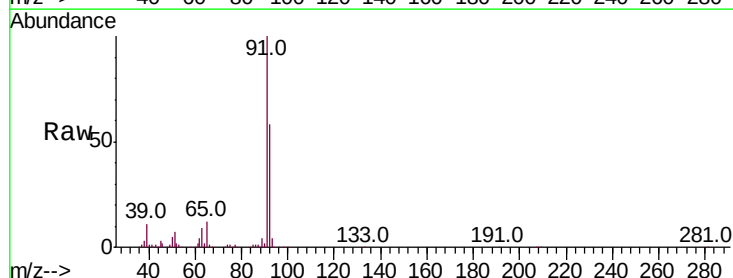
Ion Ratio Lower Upper

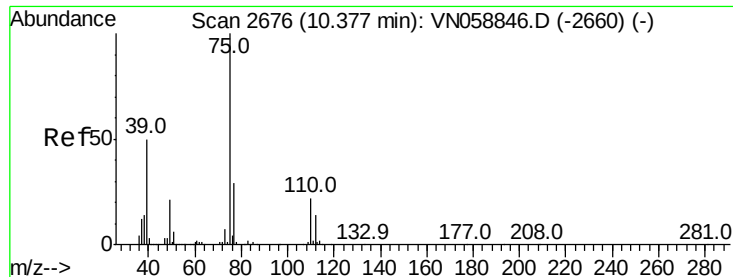
92 100

91 174.7

138.9

208.3





#53

t-1,3-Dichloropropene

Concen: 55.556 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 380868

Ion Ratio Lower Upper

75 100

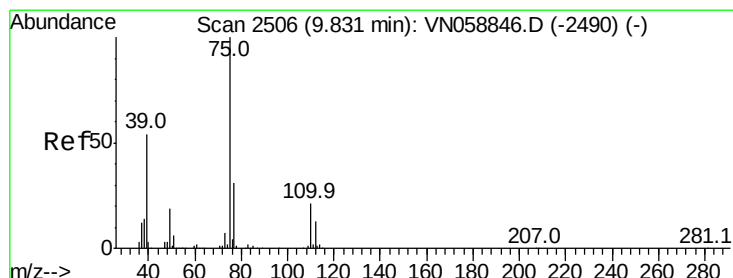
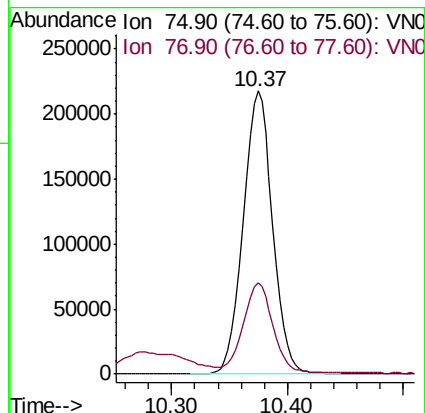
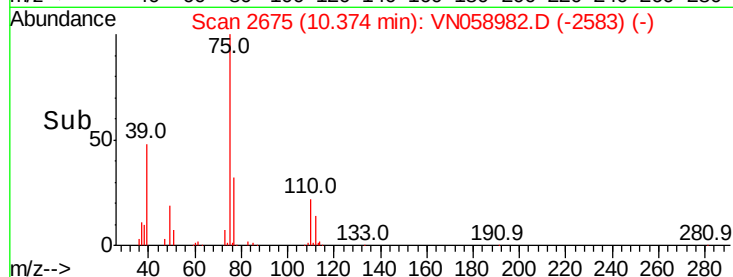
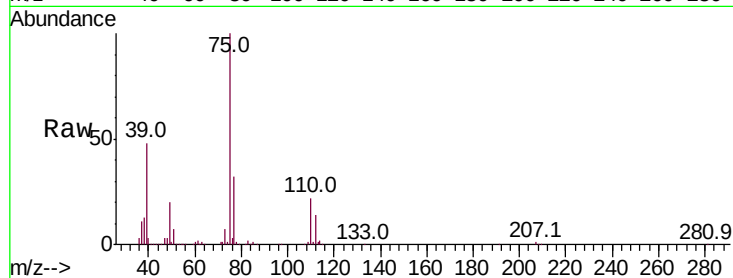
77 31.5 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#54

cis-1,3-Dichloropropene

Concen: 54.771 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

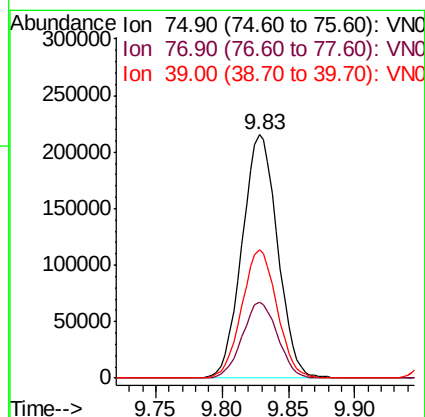
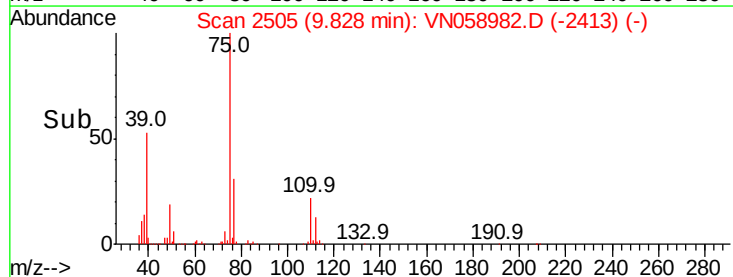
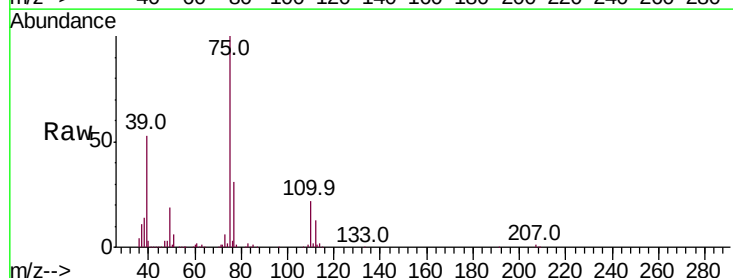
Tgt Ion: 75 Resp: 401165

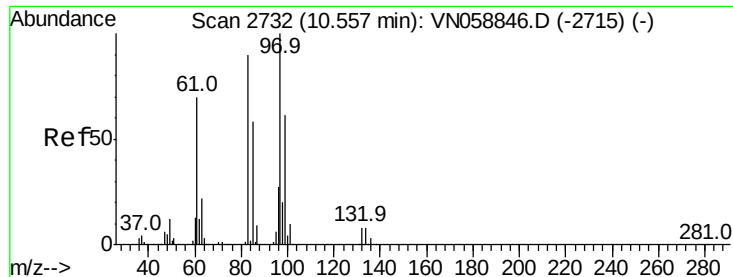
Ion Ratio Lower Upper

75 100

77 31.2 24.7 37.1

39 52.5 43.5 65.3





#55

1,1,2-Trichloroethane

Concen: 52.775 ug/l

RT: 10.55 min Scan# 2731

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

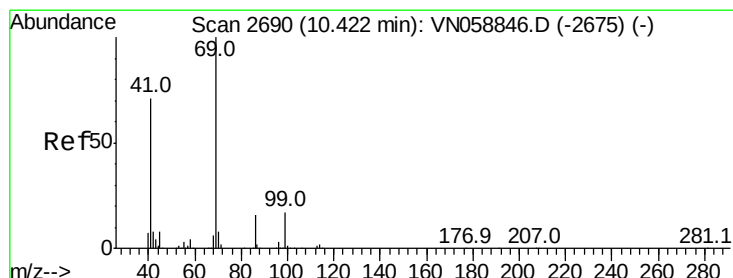
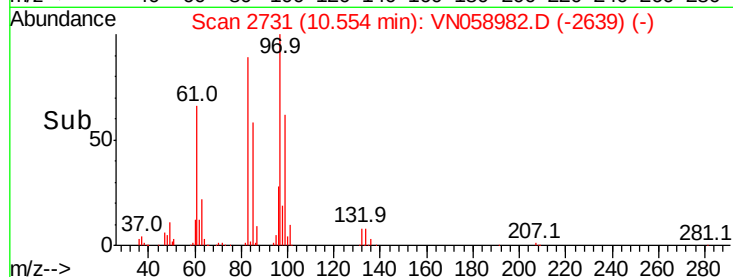
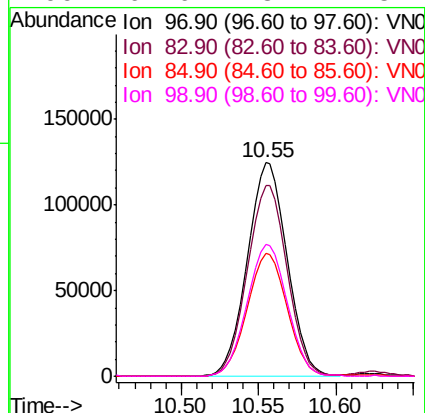
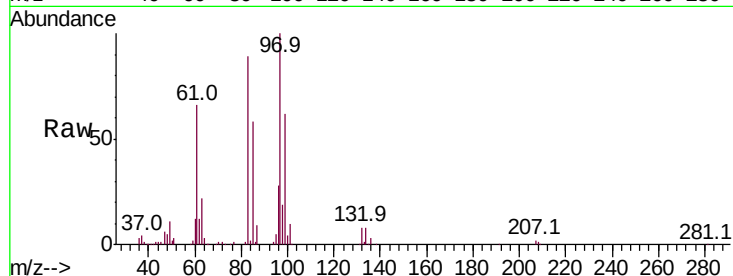
ClientSampleId :

VSTDCCC050EC

Tot Ion:	97	Resp:	223468
Ion	Ratio	Lower	Upper
97	100		
83	89.1	72.2	108.4
85	57.5	46.2	69.2
99	61.6	48.7	73.1

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#56

Ethyl methacrylate

Concen: 49.547 ug/l

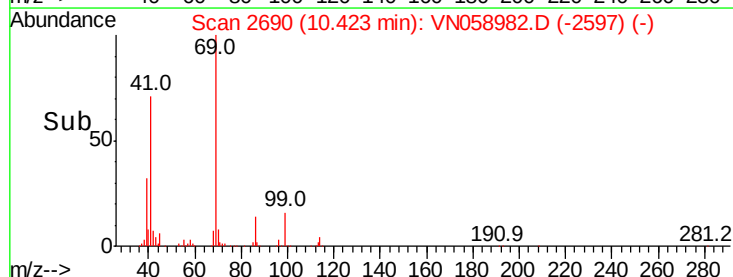
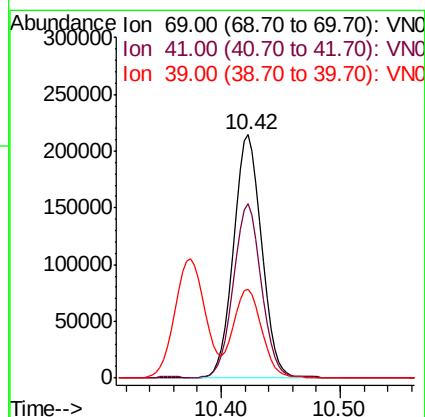
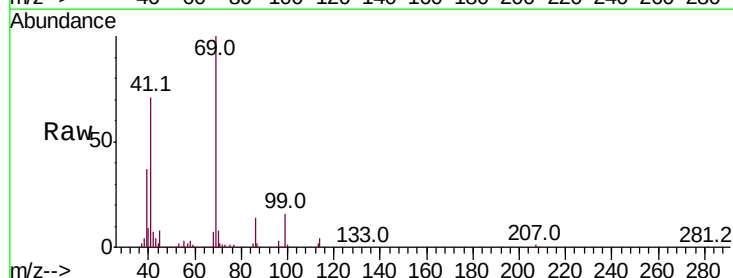
RT: 10.42 min Scan# 2690

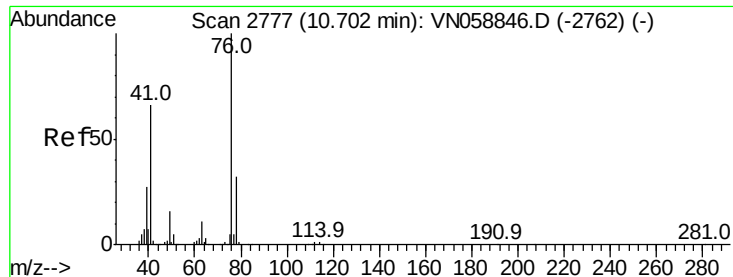
Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion:	69	Resp:	352277
Ion	Ratio	Lower	Upper
69	100		
41	70.9	57.2	85.8
39	37.0	31.0	46.4





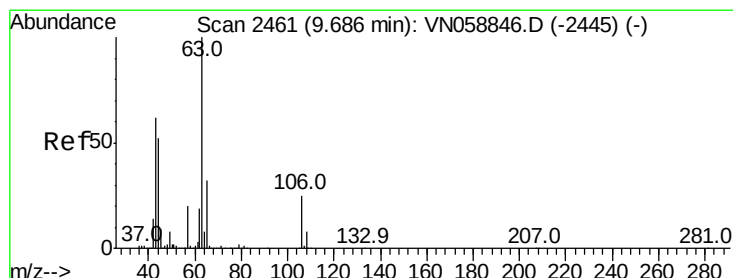
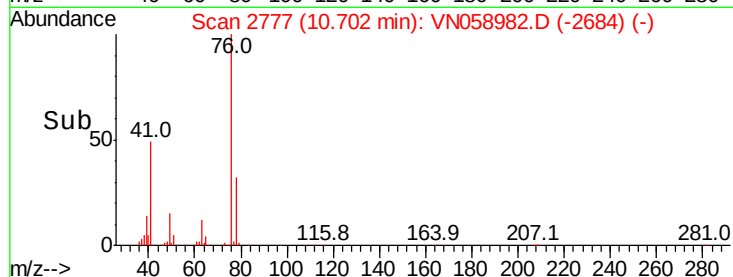
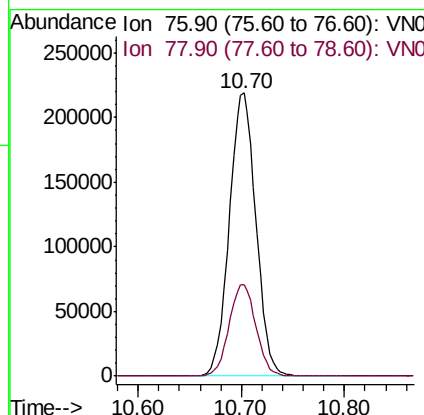
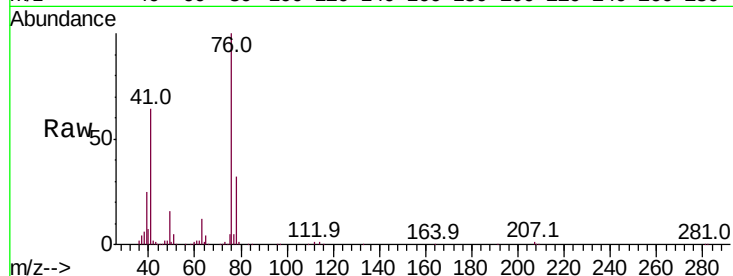
#57
 1,3-Dichloropropane
 Concen: 52.916 ug/l
 RT: 10.70 min Scan# 2777
 Delta R.T. 0.00 min
 Lab File: VN058982.D
 Acq: 25 Oct 2019 14:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.4	38.0

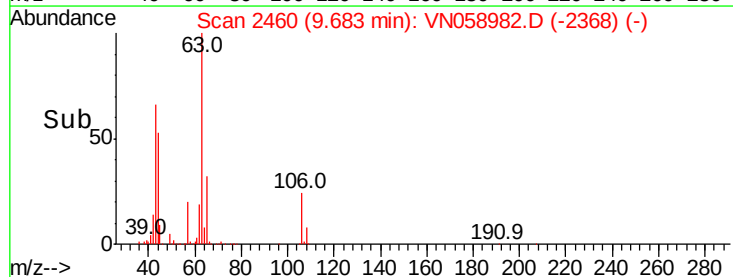
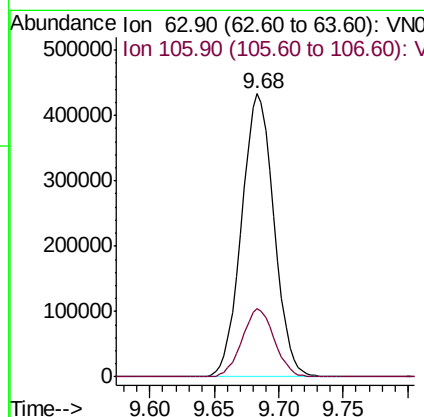
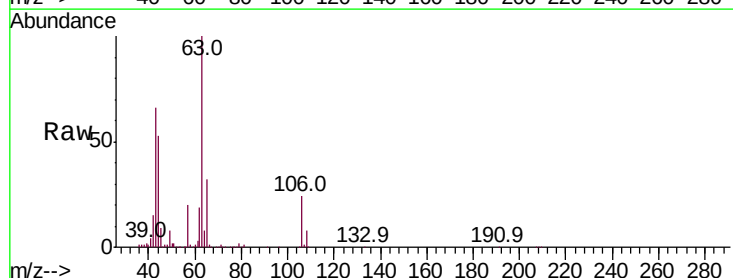
Manual Integrations
 APPROVED

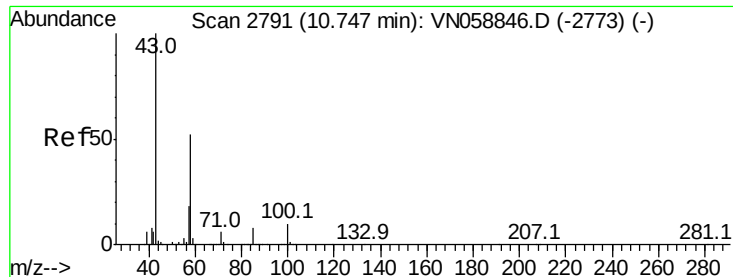
MMDadoda
 10/28/2019 9:48:04 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 252.299 ug/l
 RT: 9.68 min Scan# 2460
 Delta R.T. -0.00 min
 Lab File: VN058982.D
 Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.1	19.8	29.8





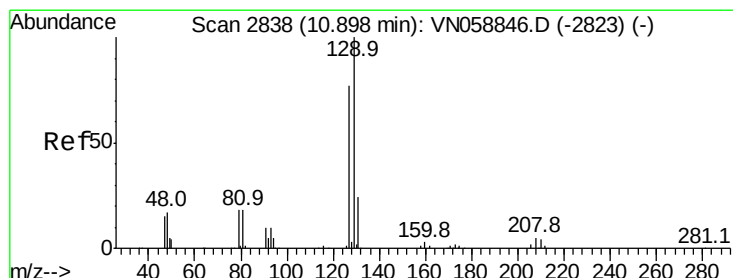
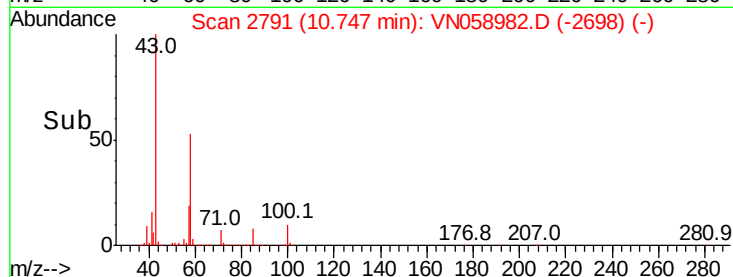
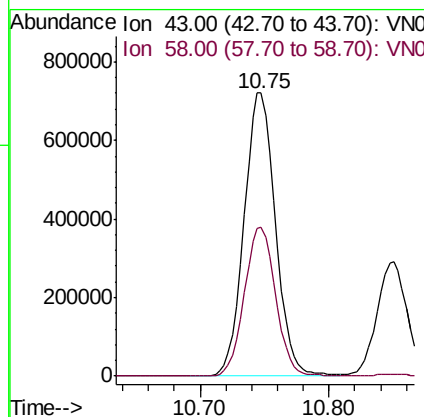
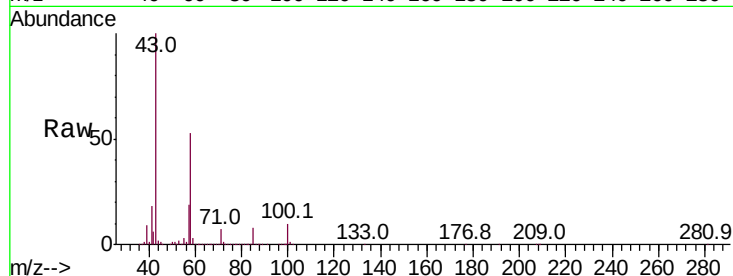
#59
2-Hexanone
Concen: 261.574 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1217784
Ion Ratio Lower Upper
43 100
58 52.7 25.9 77.7

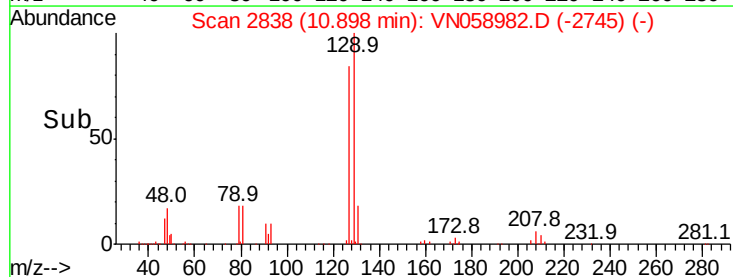
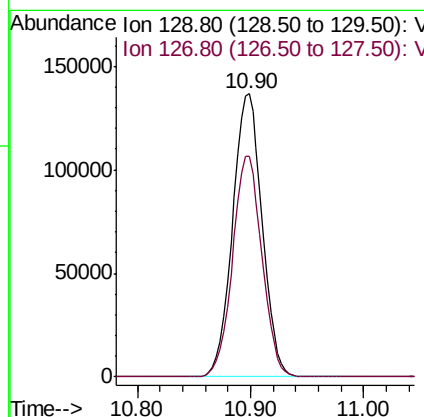
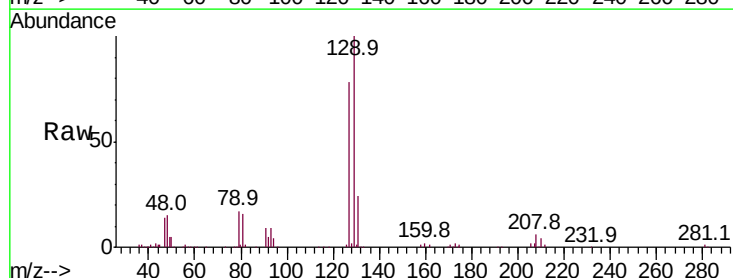
Manual Integrations
APPROVED

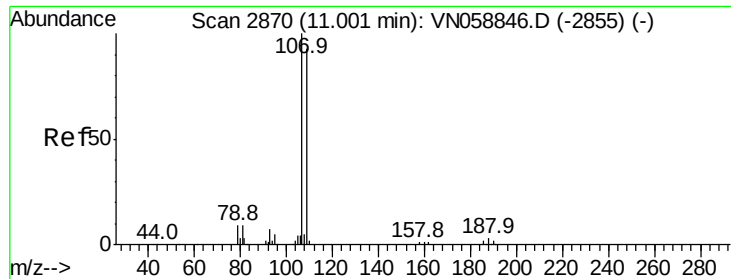
MMDadoda
10/28/2019 9:48:04 AM



#60
Dibromochloromethane
Concen: 54.495 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion: 129 Resp: 248372
Ion Ratio Lower Upper
129 100
127 77.4 39.1 117.3





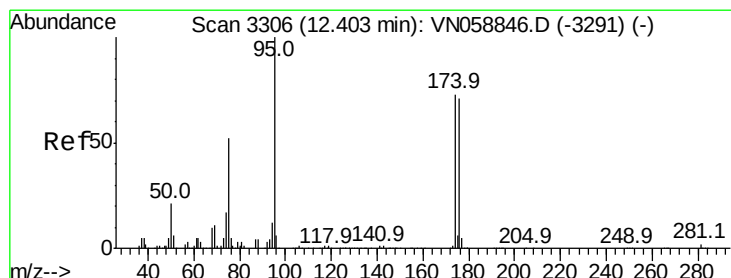
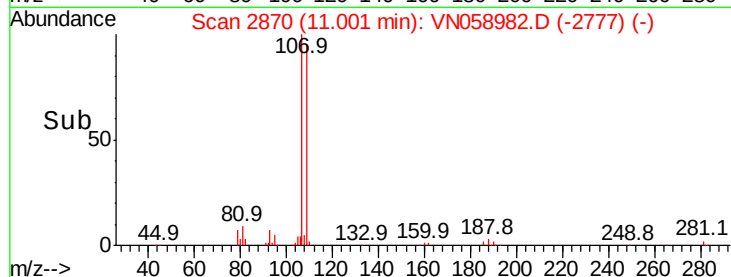
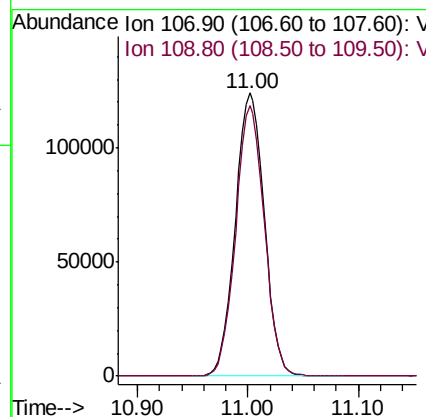
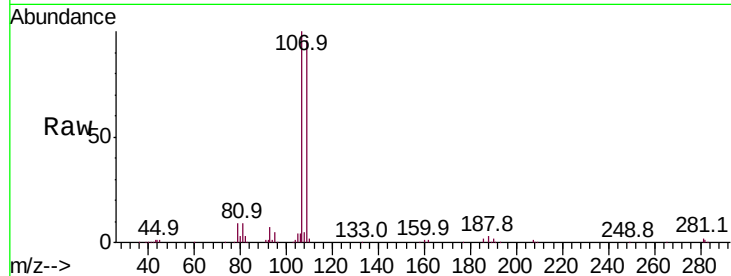
#61
 1,2-Dibromoethane
 Concen: 52.273 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VN058982.D
 Acq: 25 Oct 2019 14:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.2	112.8

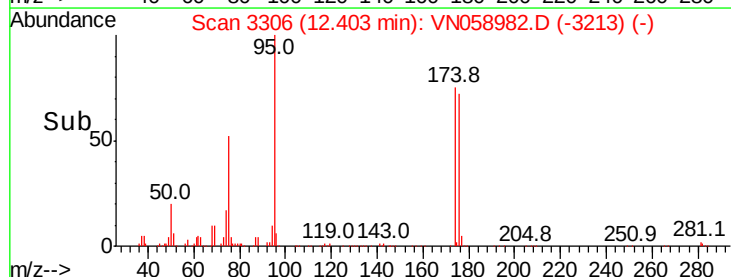
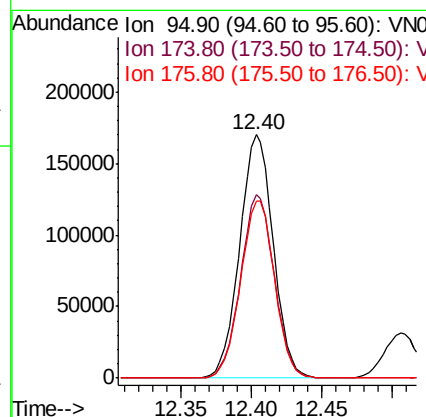
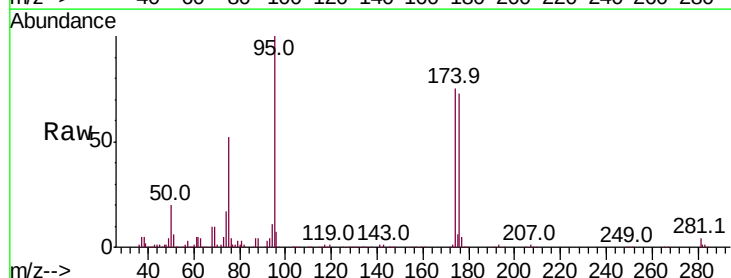
Manual Integrations
 APPROVED

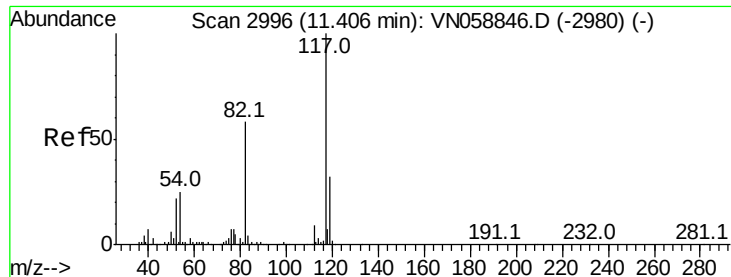
MMDadoda
 10/28/2019 9:48:04 AM



#62
 4-Bromofluorobenzene
 Concen: 52.529 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058982.D
 Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	147.6
176	73.8	0.0	143.2





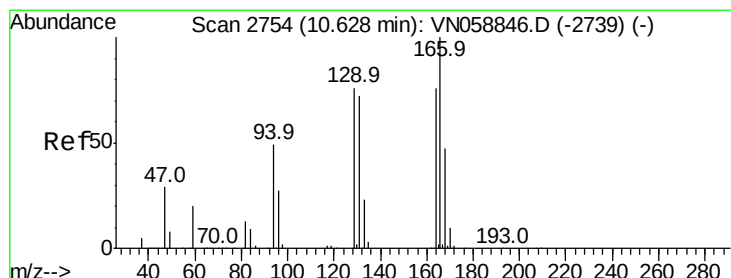
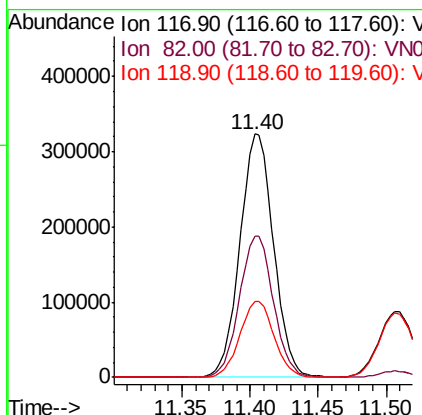
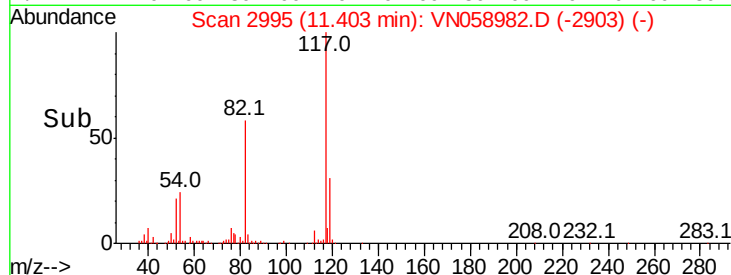
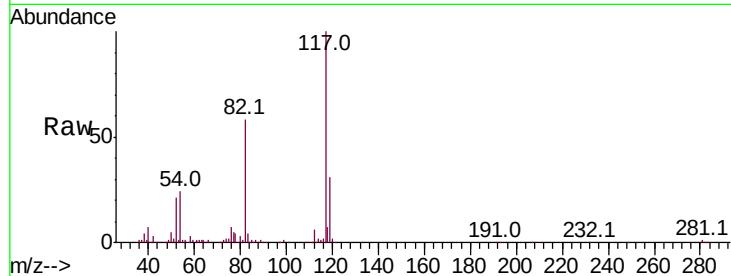
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
117	100	555191		
82	57.8	46.6	69.8	
119	30.9	25.6	38.4	

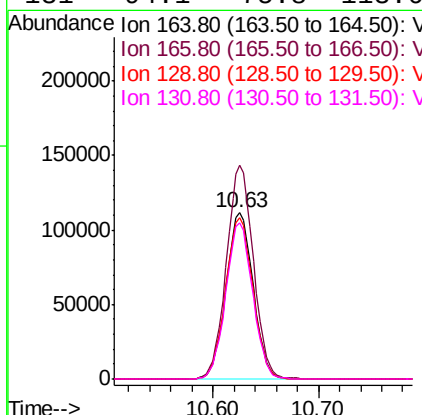
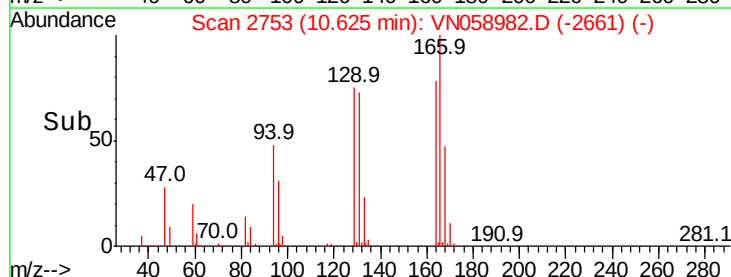
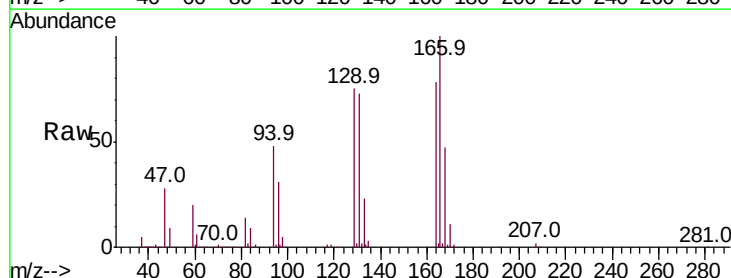
Manual Integrations
APPROVED

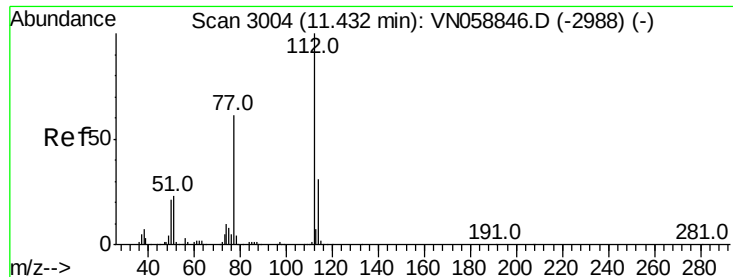
MMDadoda
10/28/2019 9:48:04 AM



#64
Tetrachloroethene
Concen: 51.146 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	198866		
166	128.6	104.8	157.2	
129	96.8	79.3	118.9	
131	94.1	75.8	113.6	





#65

Chlorobenzene

Concen: 52.785 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 596628

Ion Ratio Lower Upper

112 100

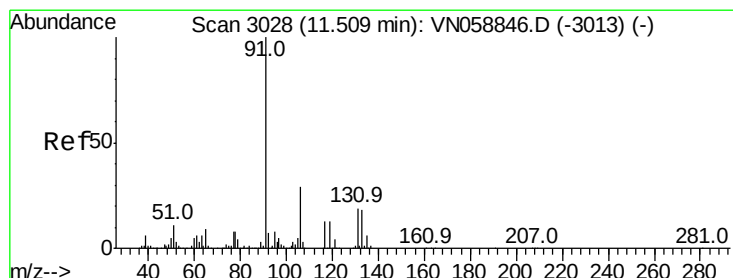
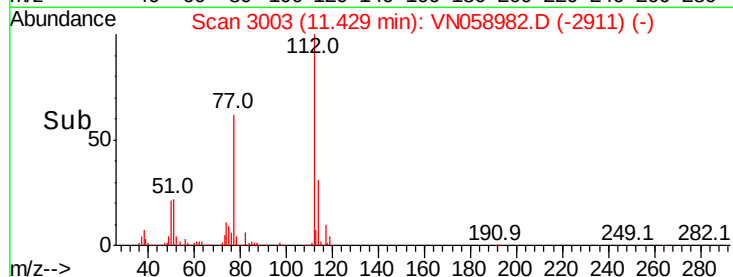
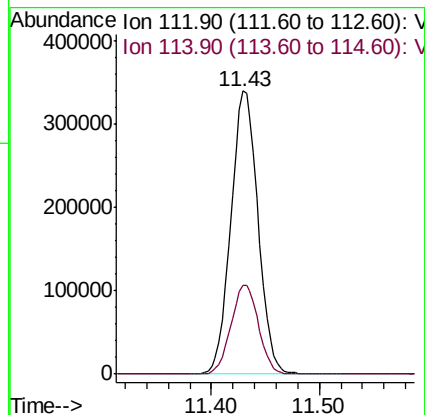
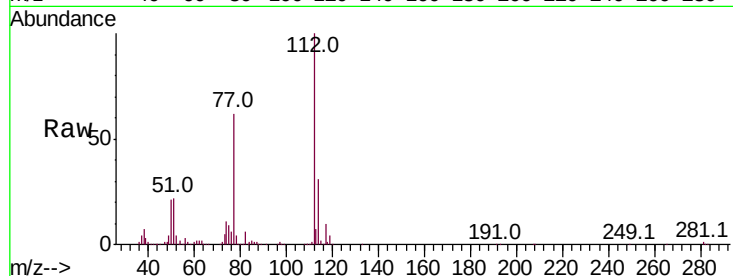
114 31.4 25.1 37.7

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 53.147 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

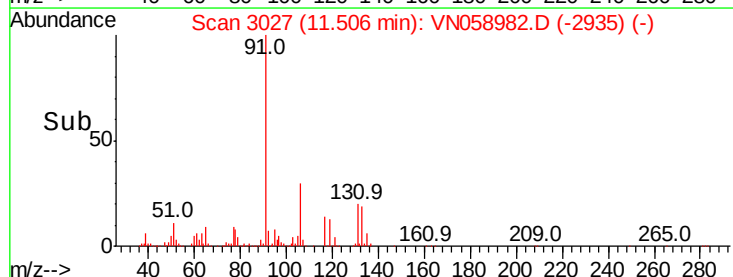
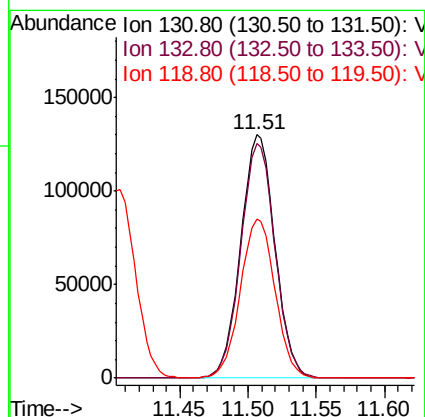
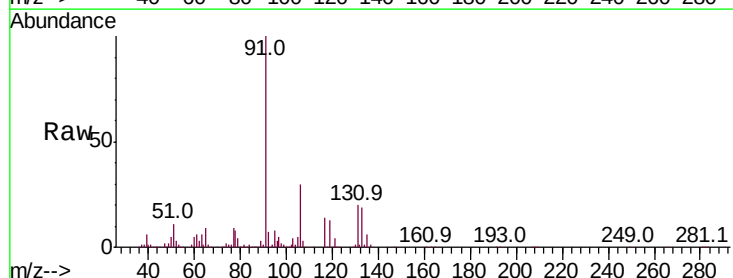
Tgt Ion:131 Resp: 226685

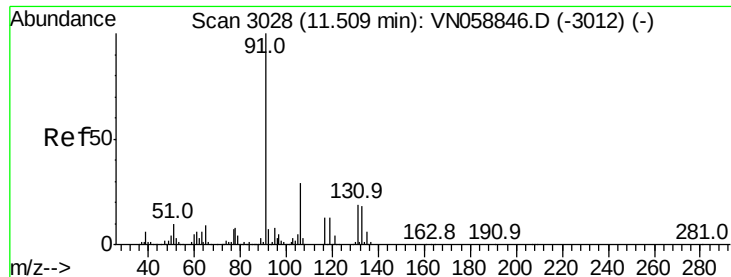
Ion Ratio Lower Upper

131 100

133 96.3 48.4 145.2

119 66.3 33.6 100.8





#67

Ethyl Benzene

Concen: 55.935 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1109080

Ion Ratio Lower Upper

91 100

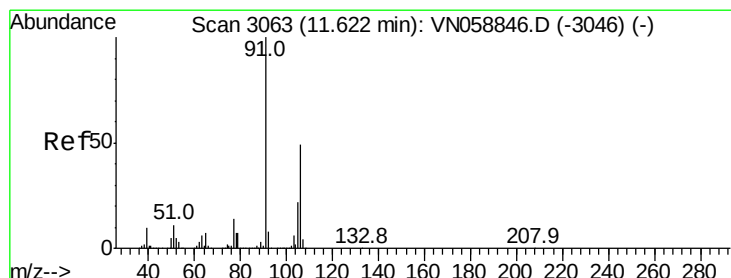
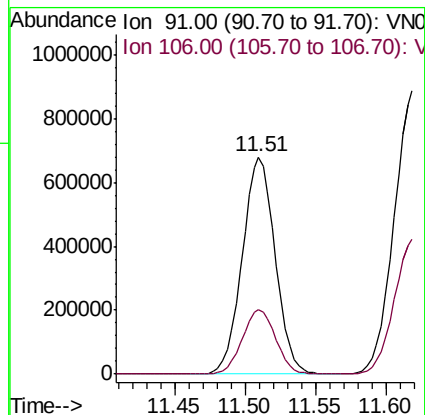
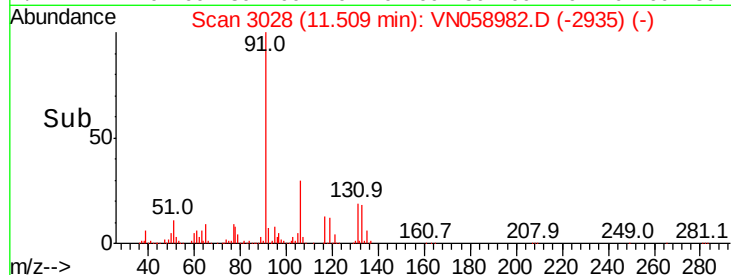
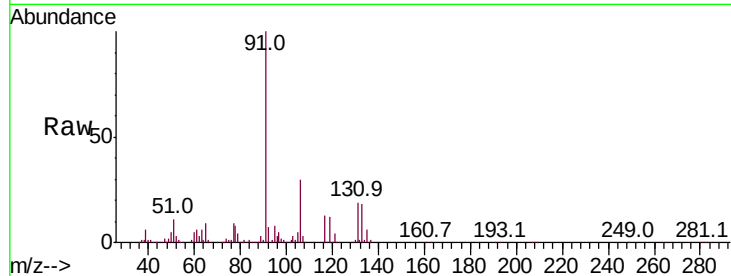
106 29.9 23.4 35.0

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#68

m/p-Xylenes

Concen: 111.415 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN058982.D

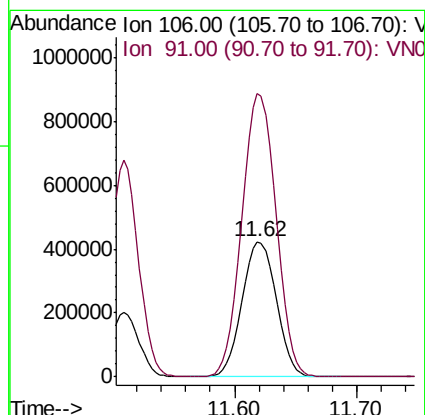
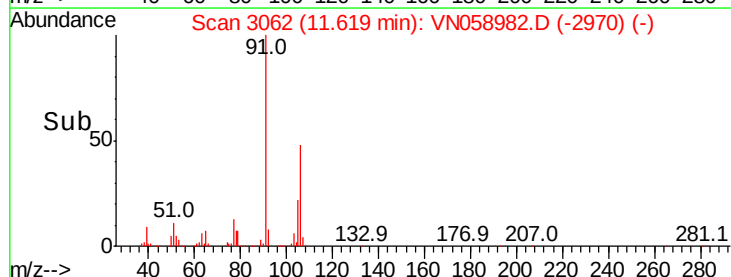
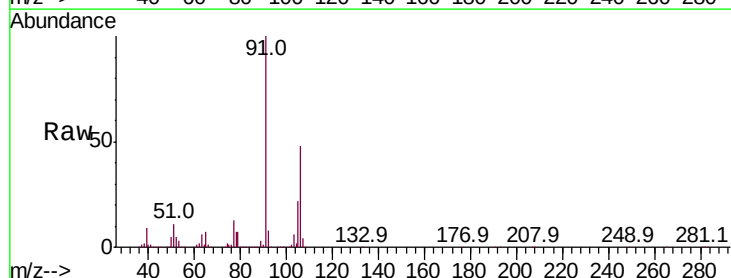
Acq: 25 Oct 2019 14:35

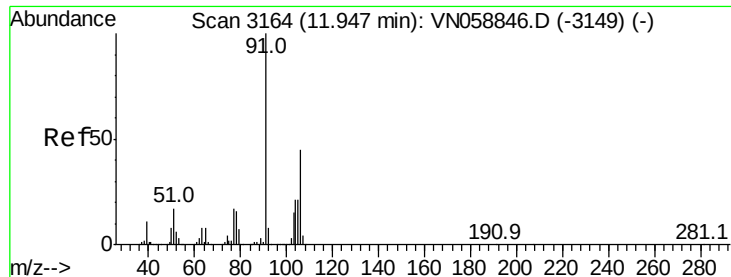
Tgt Ion: 106 Resp: 819249

Ion Ratio Lower Upper

106 100

91 209.1 166.6 249.8





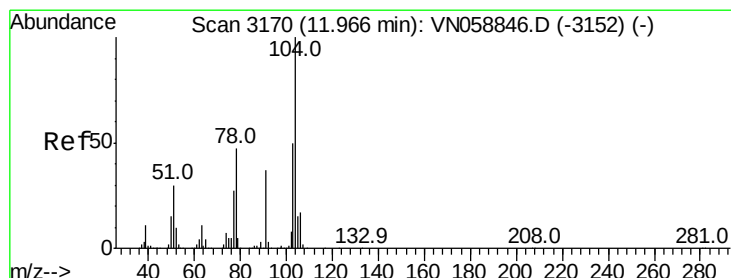
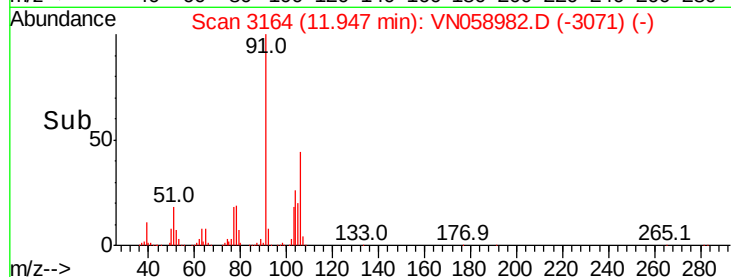
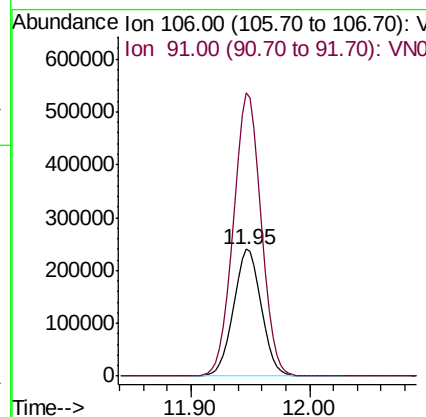
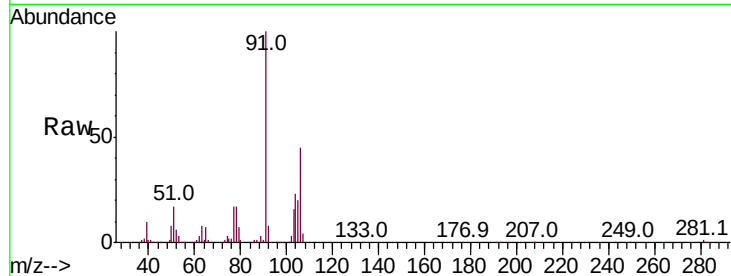
#69
o-Xylene
Concen: 55.324 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
106	100		
91	223.2	111.5	334.4

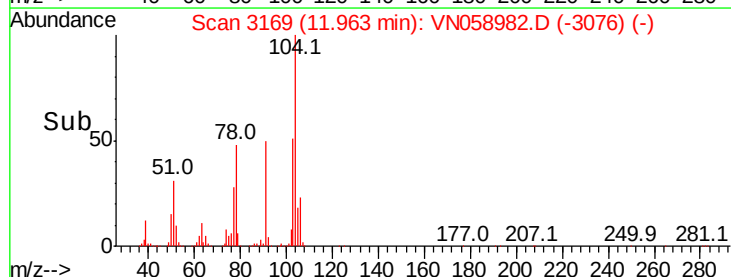
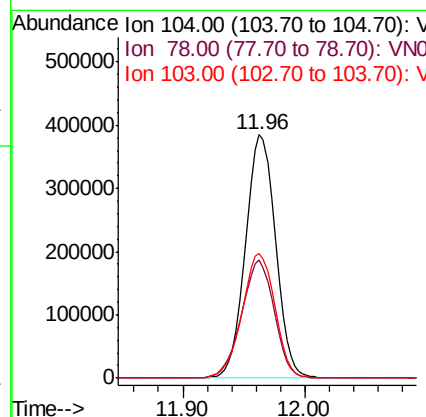
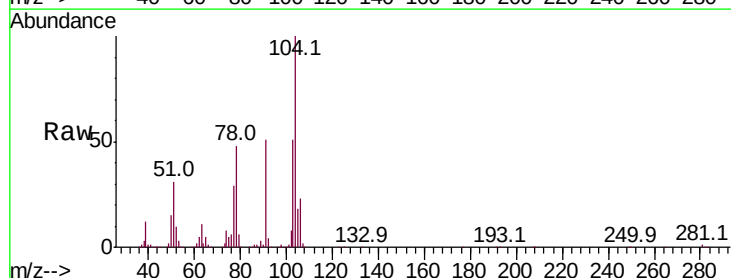
Manual Integrations
APPROVED

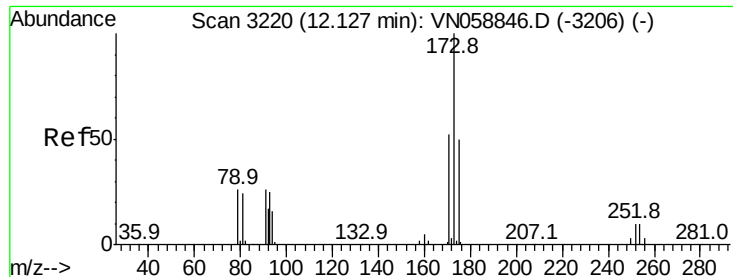
MMDadoda
10/28/2019 9:48:04 AM



#70
Styrene
Concen: 50.498 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
104	100		
78	52.9	42.8	64.2
103	56.0	44.3	66.5





#71

Bromoform

Concen: 53.486 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 176902

Ion Ratio Lower Upper

173 100

175 47.8 24.7 74.1

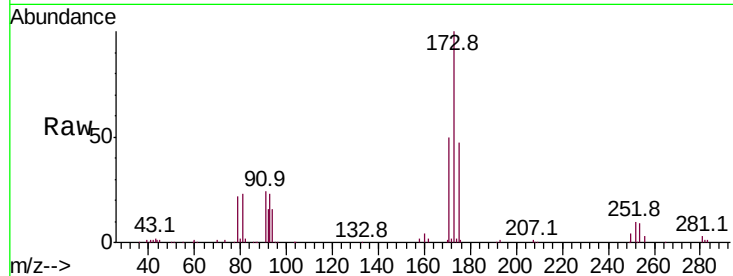
254 0.0 0.0 0.0#

Manual Integrations

APPROVED

MMDadoda

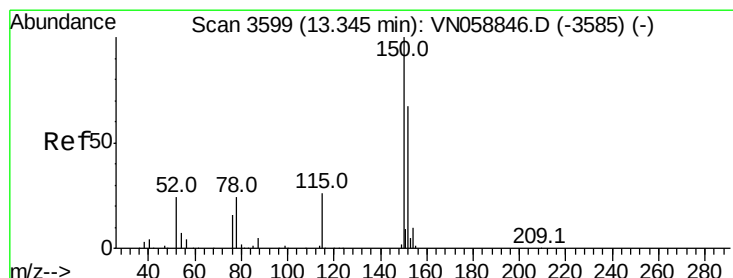
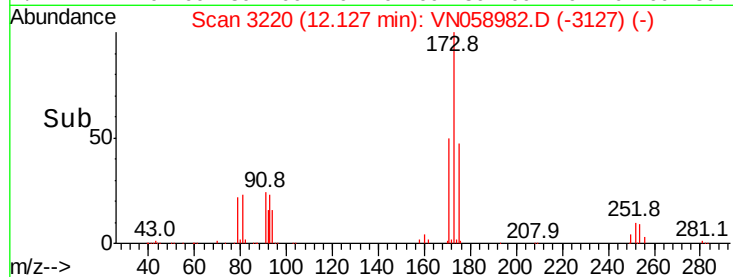
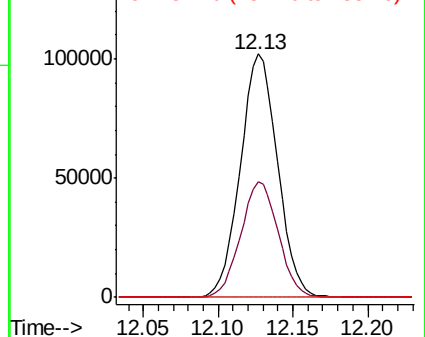
10/28/2019 9:48:04 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

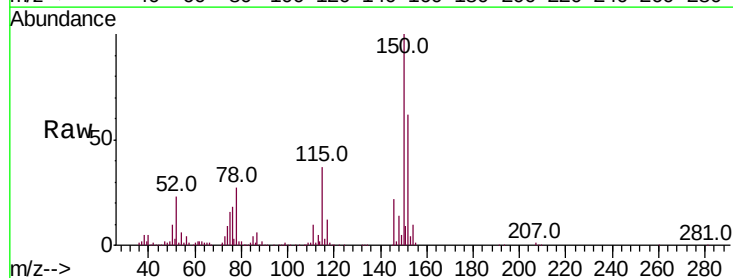
Tgt Ion:152 Resp: 275128

Ion Ratio Lower Upper

152 100

115 59.8 30.5 91.5

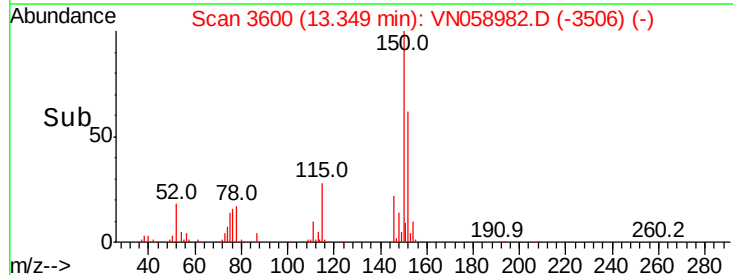
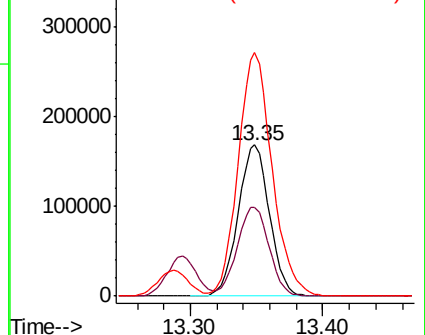
150 174.8 0.0 344.4

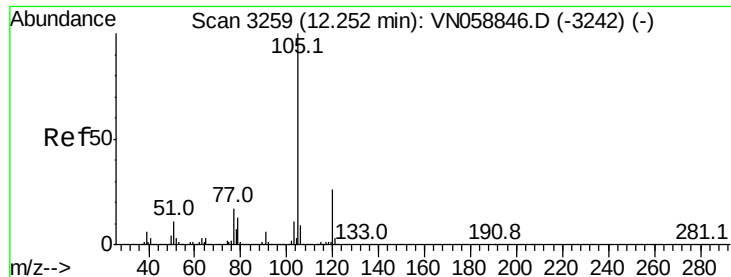


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





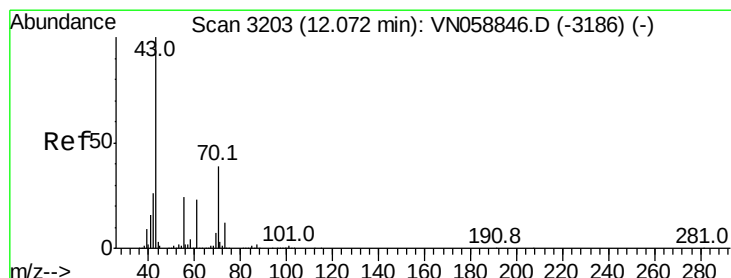
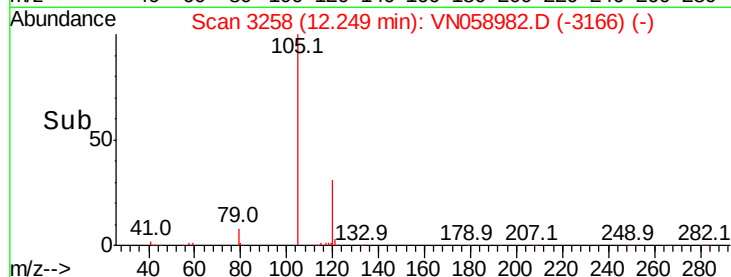
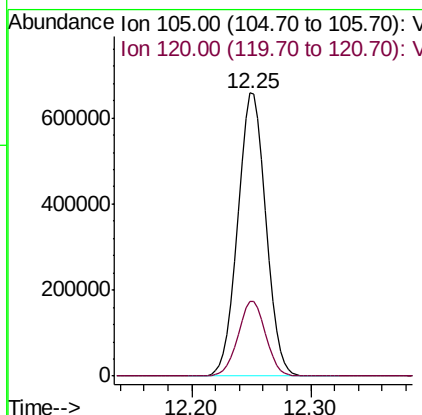
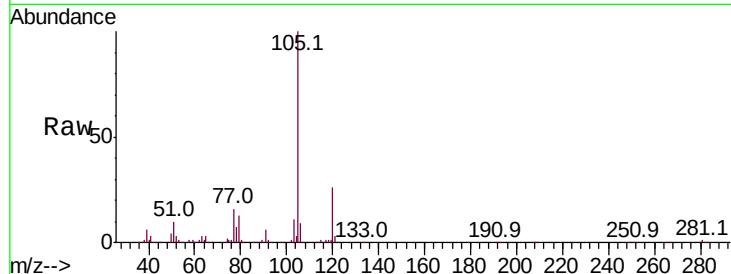
#73
Isopropylbenzene
Concen: 53.543 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:105 Resp: 1076574
Ion Ratio Lower Upper
105 100
120 25.9 12.8 38.4

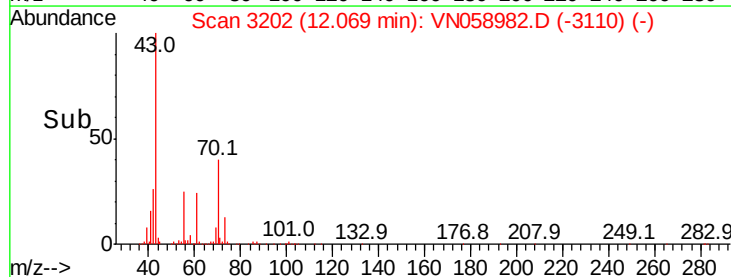
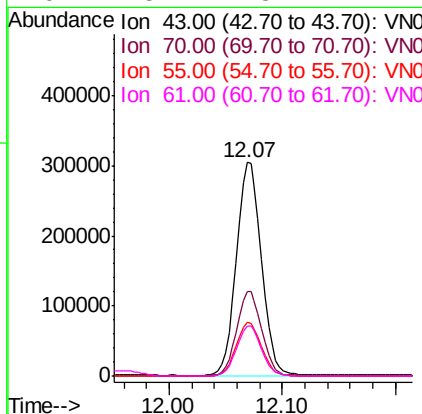
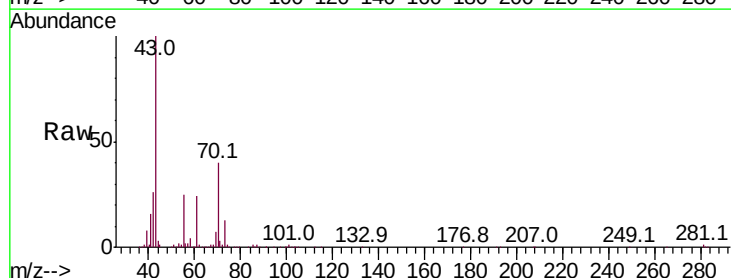
Manual Integrations
APPROVED

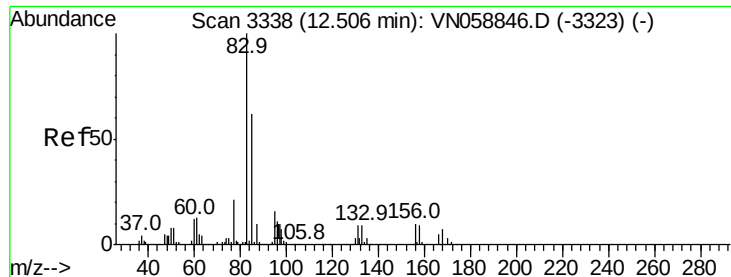
MMDadoda
10/28/2019 9:48:04 AM



#74
N-ethyl acetate
Concen: 51.484 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion: 43 Resp: 469303
Ion Ratio Lower Upper
43 100
70 39.8 30.9 46.3
55 25.5 19.7 29.5
61 23.4 18.2 27.4





#75

1,1,2,2-Tetrachloroethane

Concen: 47.795 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

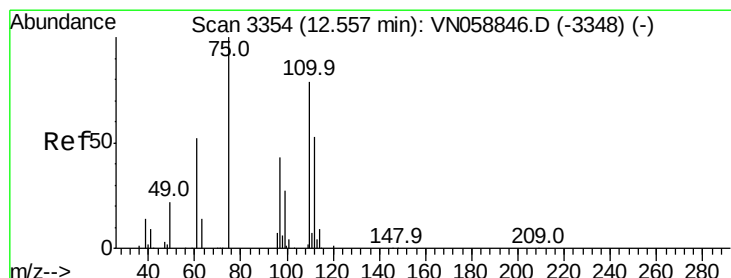
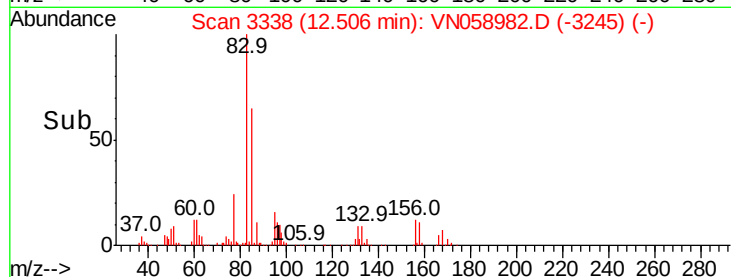
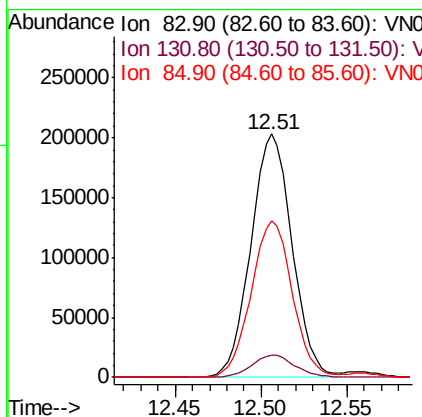
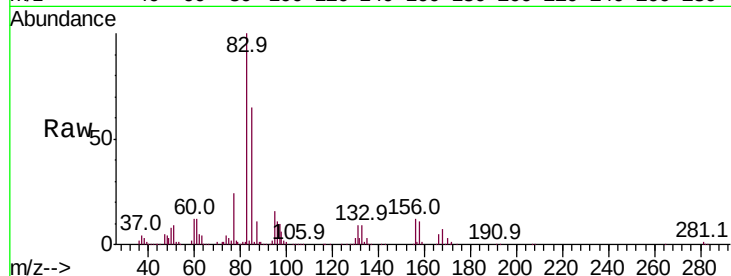
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	337911
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.7	14.1
85	64.2	31.7	95.1

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#76

1,2,3-Trichloropropane

Concen: 45.607 ug/l m

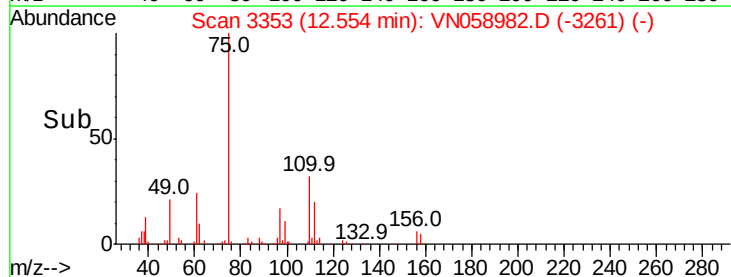
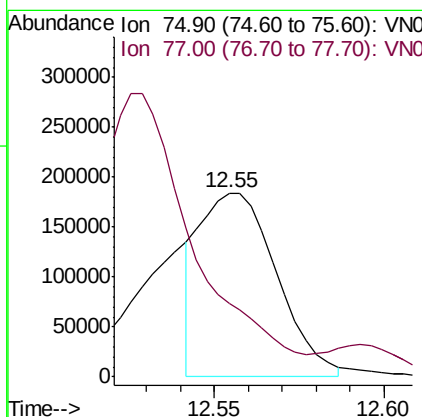
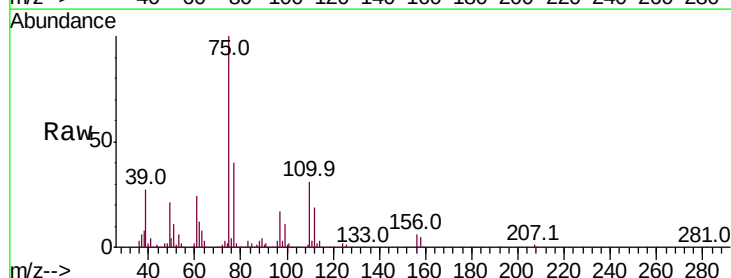
RT: 12.55 min Scan# 3353

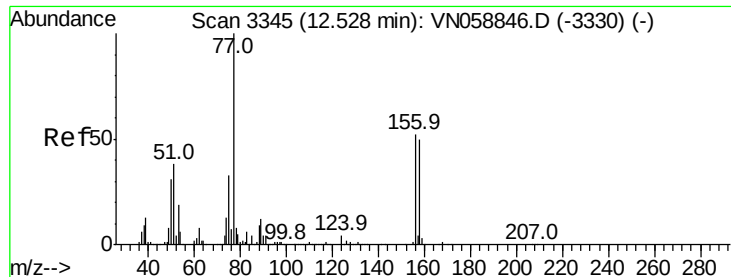
Delta R.T. -0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion:	75	Resp:	290808
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.583 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

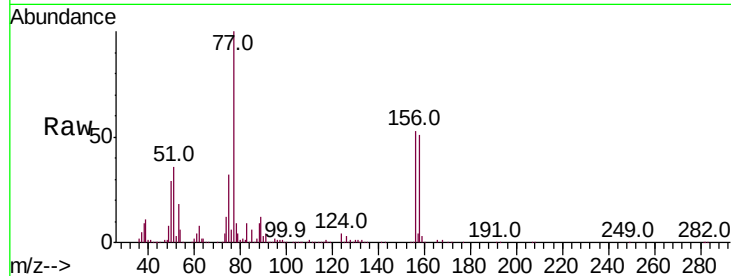
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	255641
Ion Ratio	Lower	Upper	
156	100		
77	228.5	118.0	354.0
158	96.7	48.3	144.8

Manual Integrations
APPROVED

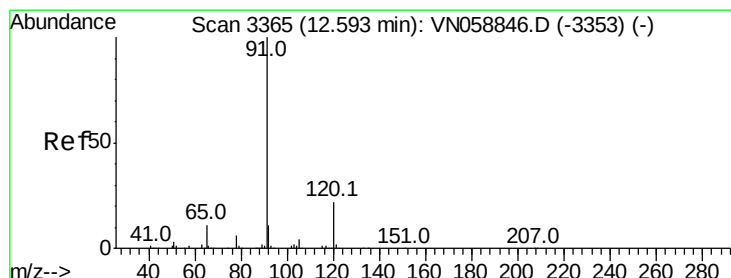
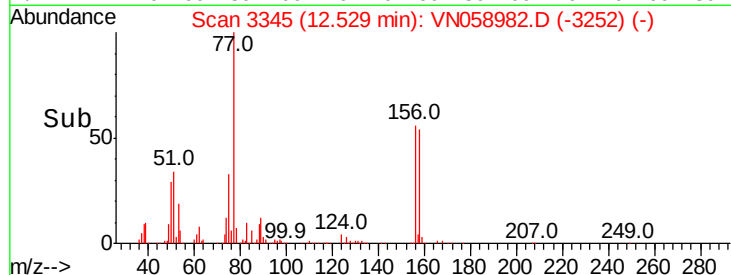
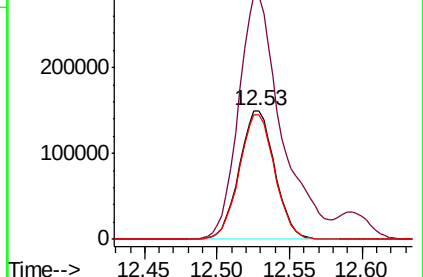
MMDadoda
10/28/2019 9:48:04 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 53.999 ug/l

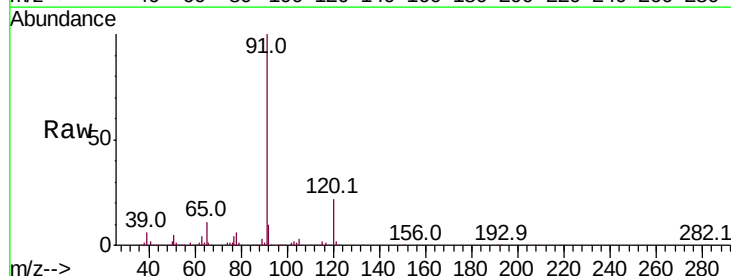
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN058982.D

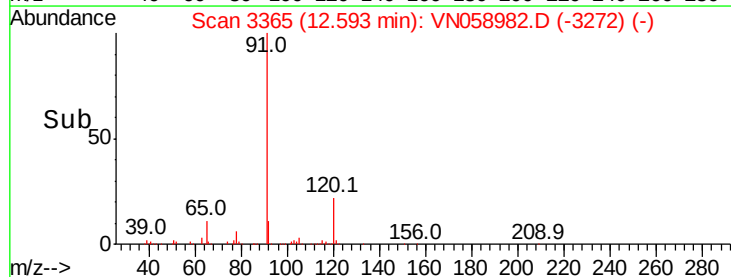
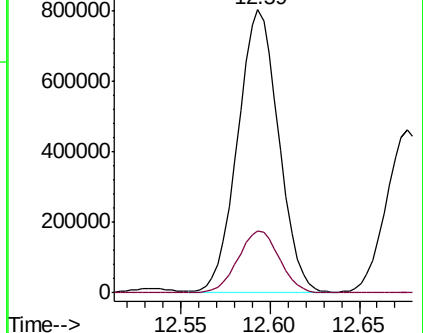
Acq: 25 Oct 2019 14:35

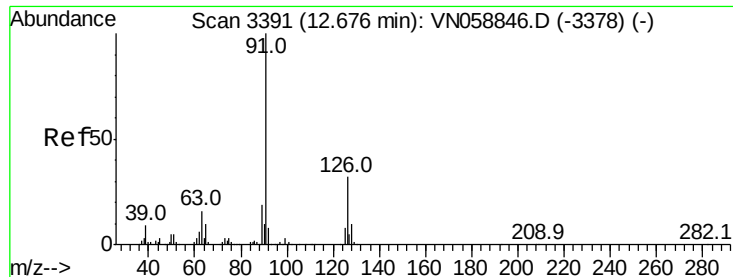
Tgt Ion:	91	Resp:	1283403
Ion Ratio	Lower	Upper	
91	100		
120	22.2	11.1	33.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 51.624 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 750939

Ion Ratio Lower Upper

91 100

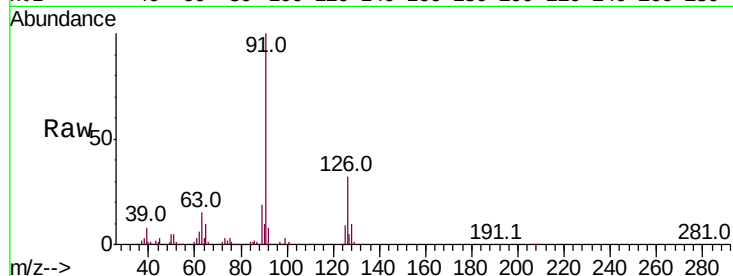
126 32.4 16.2 48.6

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM

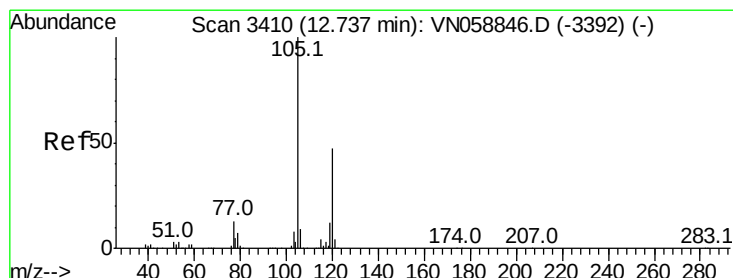
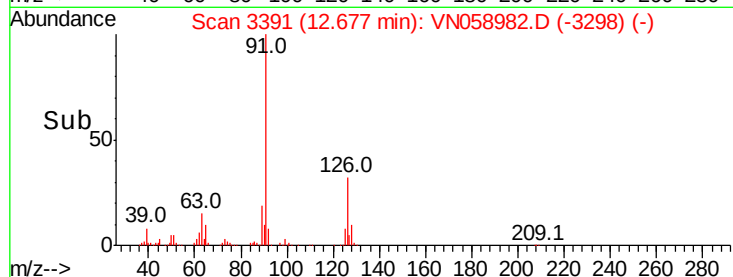


Abundance Ion 91.00 (90.70 to 91.70): VN058846.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN058846.D (-3378) (-)

12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 54.795 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN058982.D

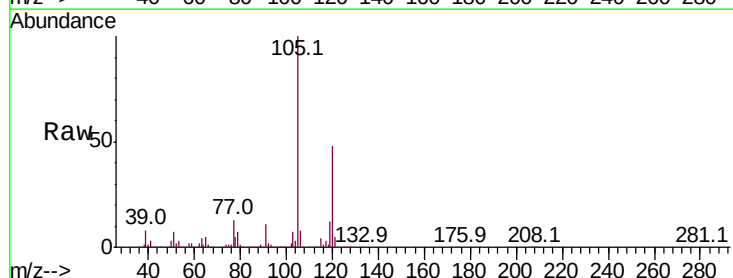
Acq: 25 Oct 2019 14:35

Tgt Ion: 105 Resp: 925677

Ion Ratio Lower Upper

105 100

120 47.7 23.8 71.5

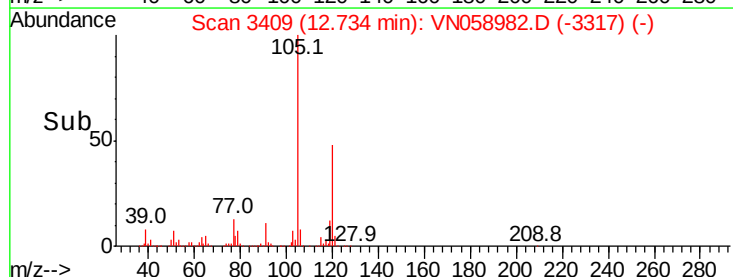


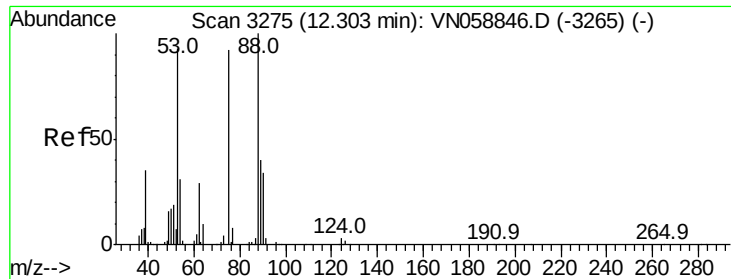
Abundance Ion 105.00 (104.70 to 105.70): VN058846.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN058846.D (-3392) (-)

12.73

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 50.182 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN058982.D

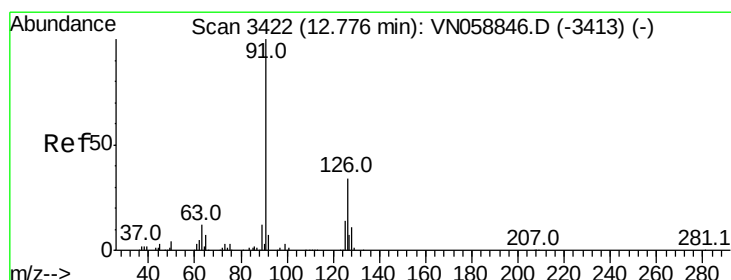
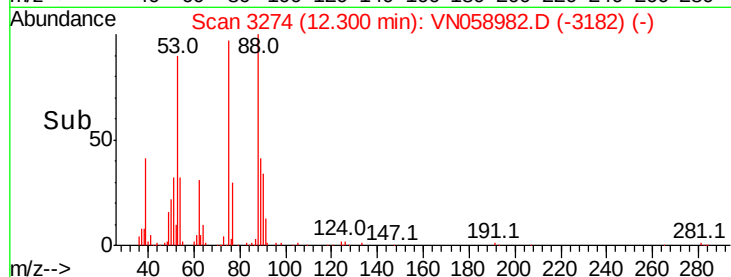
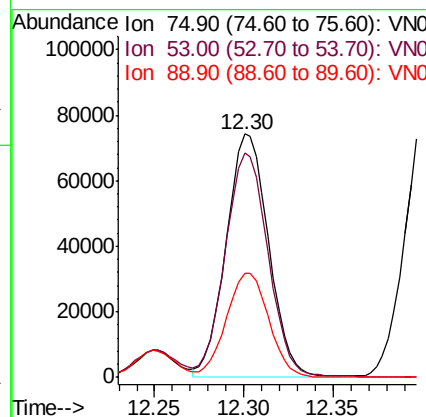
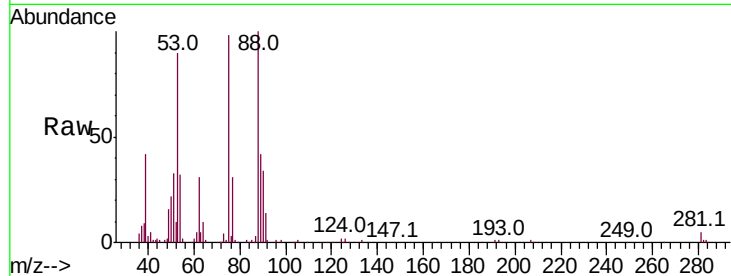
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.6	78.6	118.0
89	42.6	35.4	53.0

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#82

4-Chlorotoluene

Concen: 52.868 ug/l

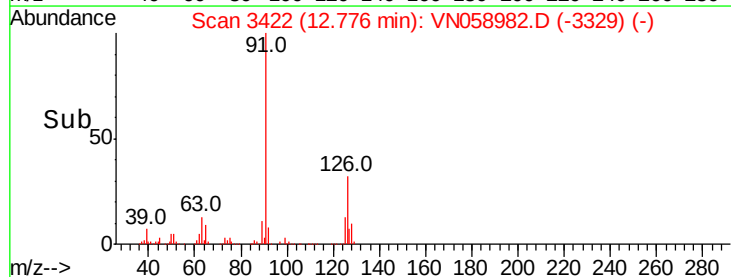
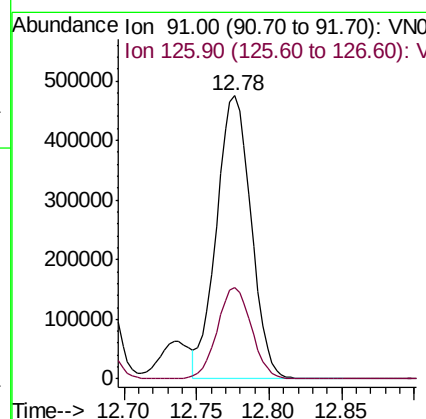
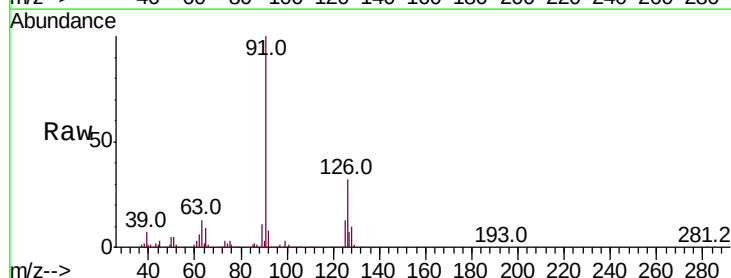
RT: 12.78 min Scan# 3422

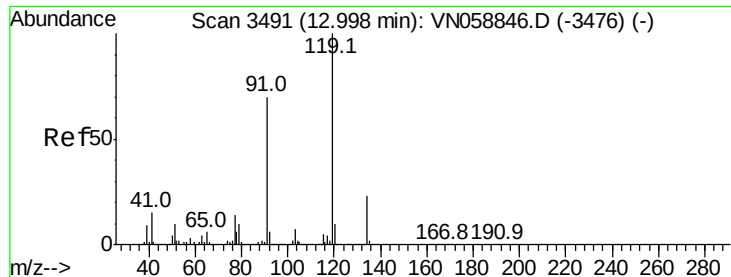
Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.0	47.9





#83

tert-Butylbenzene

Concen: 53.923 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

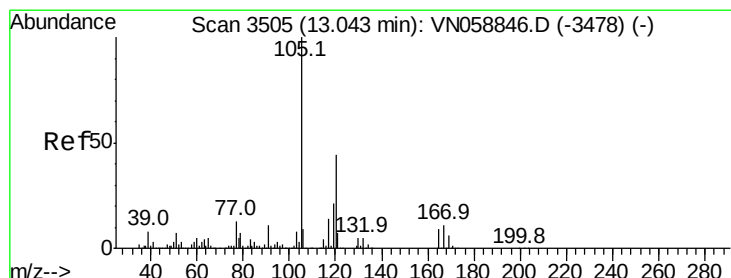
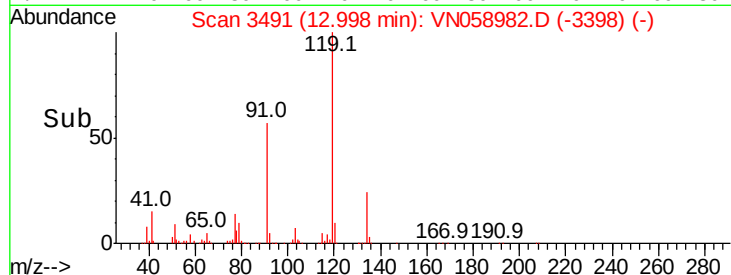
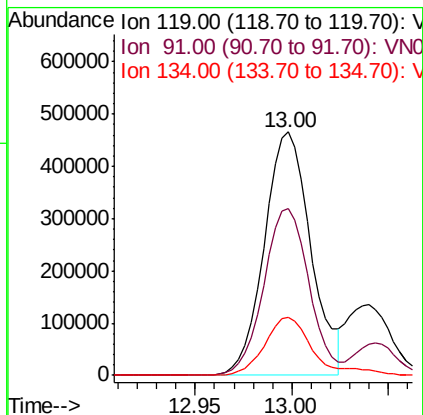
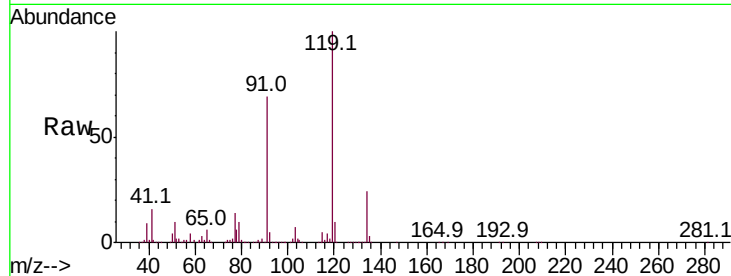
ClientSampleId :

VSTDCCC050EC

Tot Ion:	119	Resp:	778971
Ion Ratio	Lower	Upper	
119	100		
91	66.4	34.1	102.3
134	25.0	11.6	34.8

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#84

1,2,4-Trimethylbenzene

Concen: 55.889 ug/l

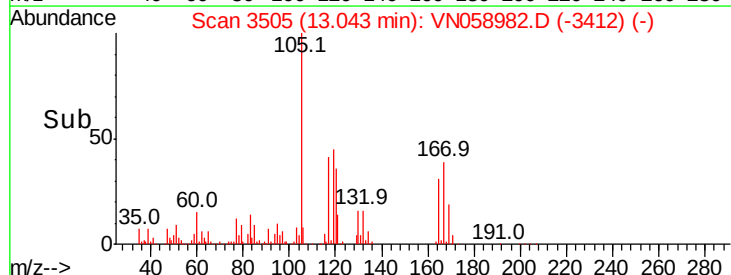
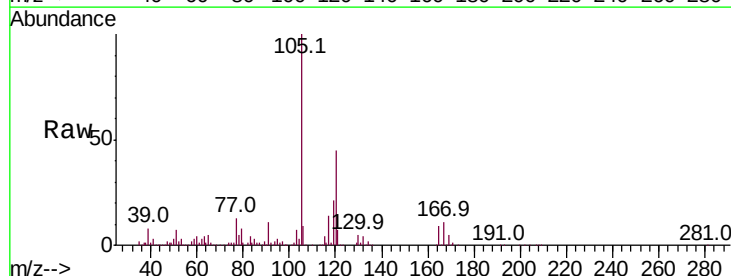
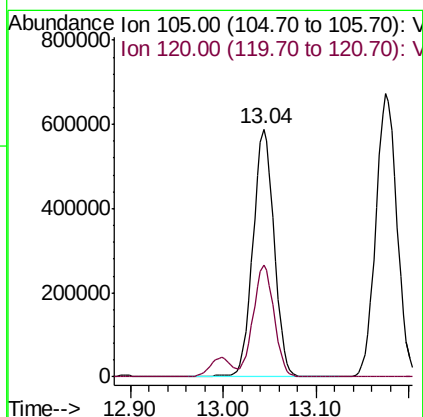
RT: 13.04 min Scan# 3505

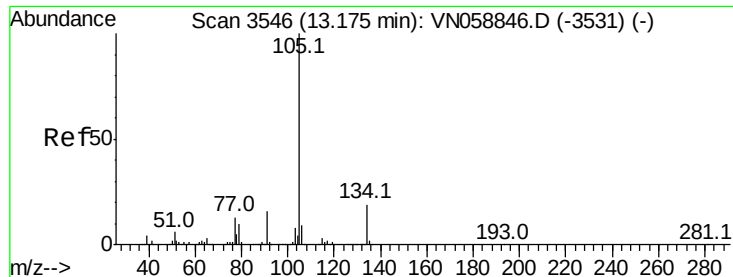
Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion:	105	Resp:	931262
Ion Ratio	Lower	Upper	
105	100		
120	44.9	21.9	65.8





#85

sec-Butylbenzene

Concen: 55.187 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1062904

Ion Ratio Lower Upper

105 100

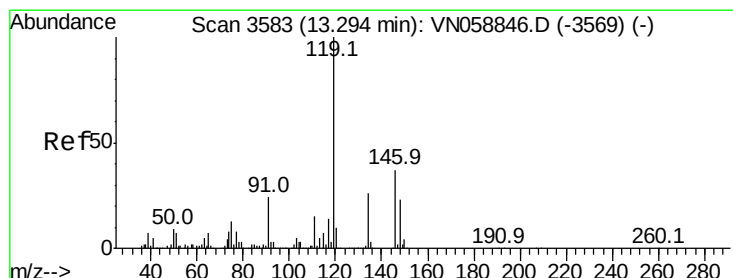
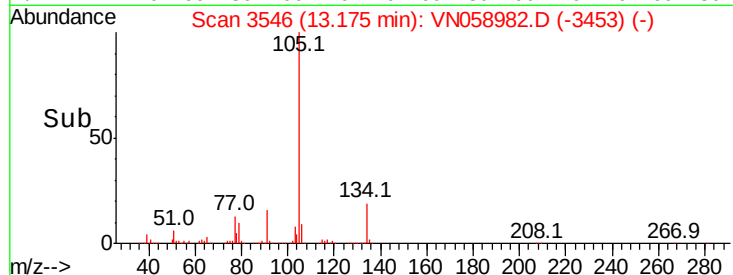
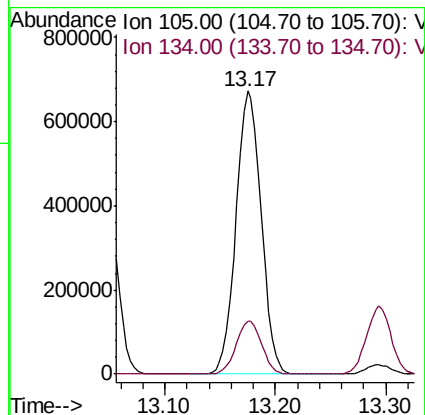
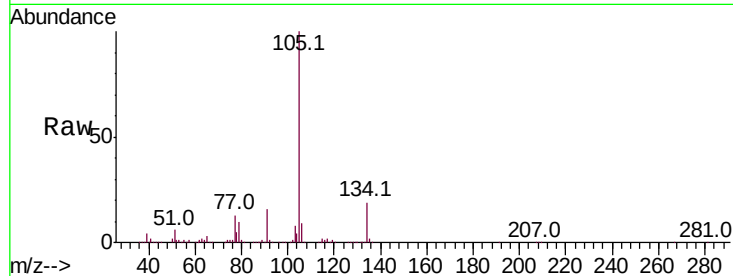
134 19.0 9.4 28.2

Manual Integrations

APPROVED

MMDadoda

10/28/2019 9:48:04 AM



#86

p-Isopropyltoluene

Concen: 56.743 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

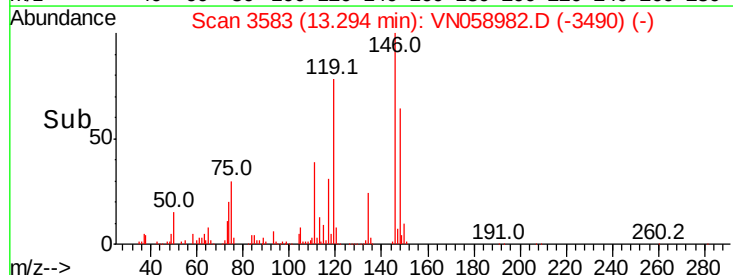
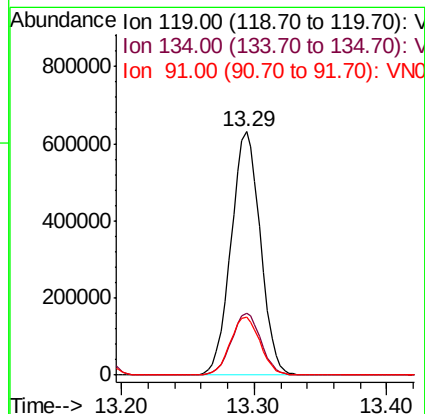
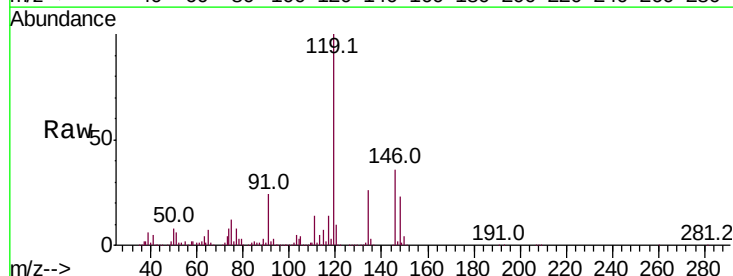
Tgt Ion:119 Resp: 964310

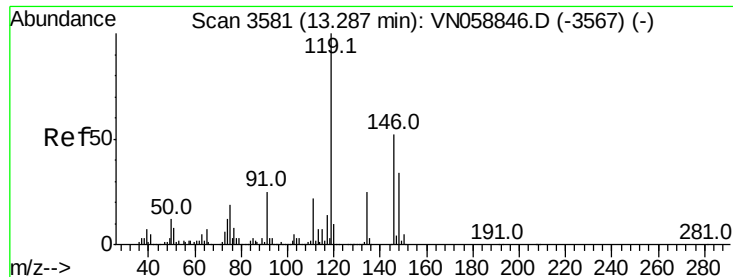
Ion Ratio Lower Upper

119 100

134 25.7 12.8 38.4

91 24.2 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 52.762 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

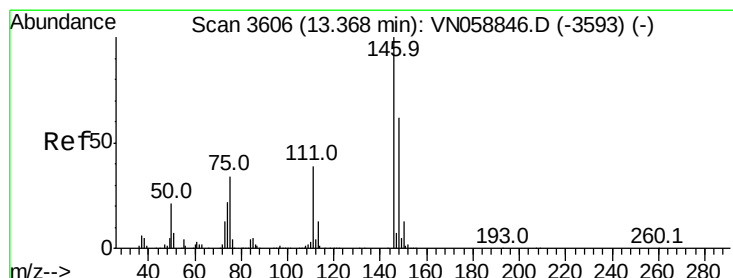
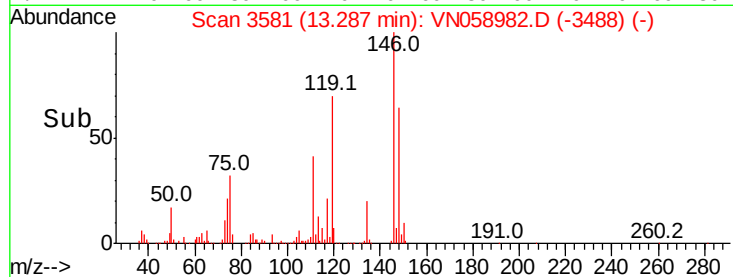
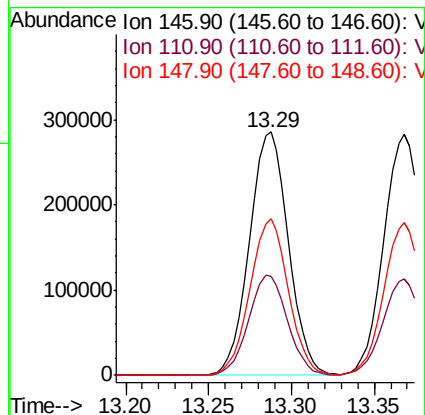
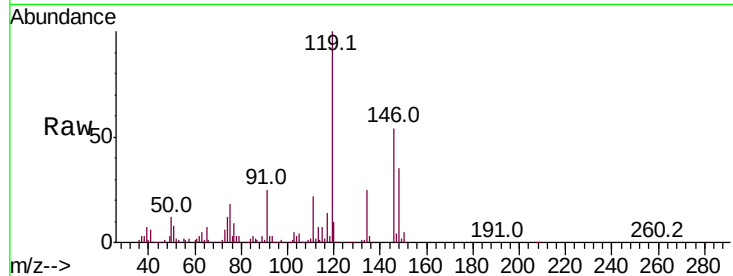
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	467559
Ion Ratio	Lower	Upper	
146	100		
111	41.1	21.0	63.0
148	63.6	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#88

1,4-Dichlorobenzene

Concen: 52.542 ug/l

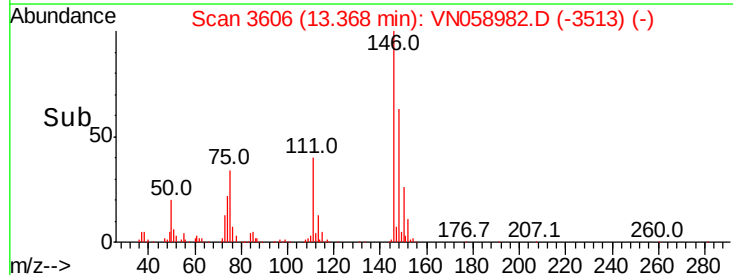
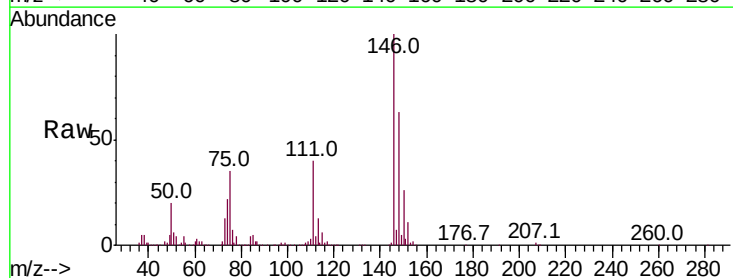
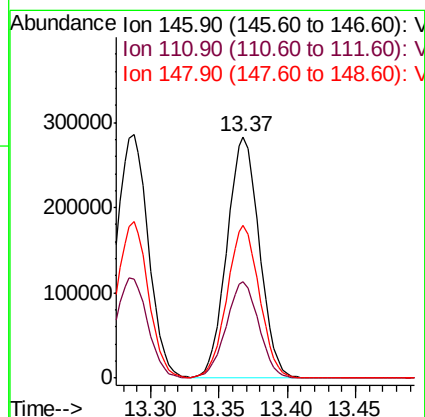
RT: 13.37 min Scan# 3606

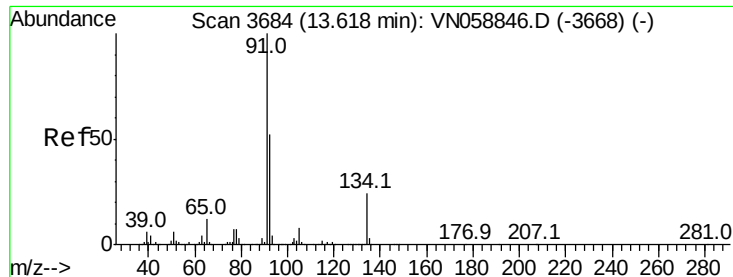
Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion:	146	Resp:	466160
Ion Ratio	Lower	Upper	
146	100		
111	40.2	20.2	60.6
148	63.3	31.6	94.7





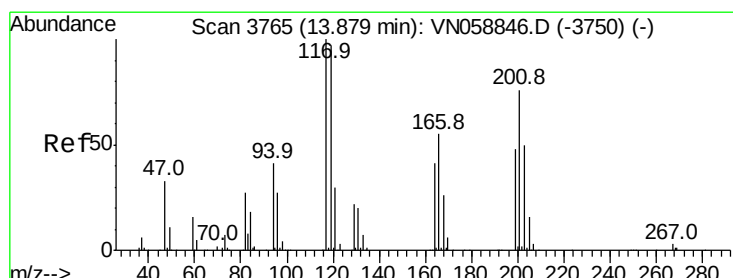
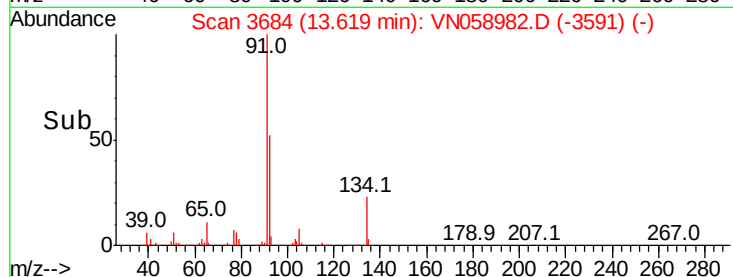
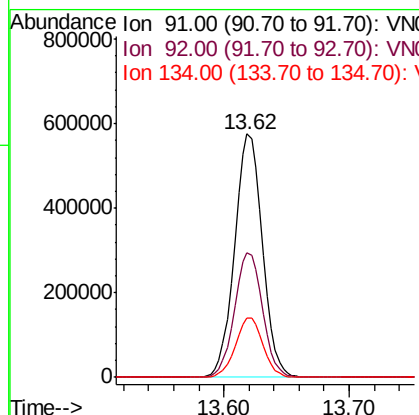
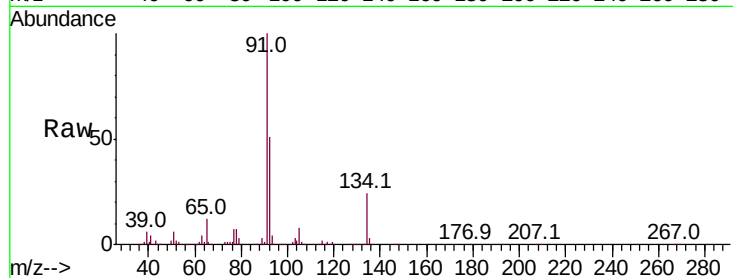
#89
n-Butylbenzene
Concen: 56.539 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	25.7	77.1
134	24.3	11.9	35.5

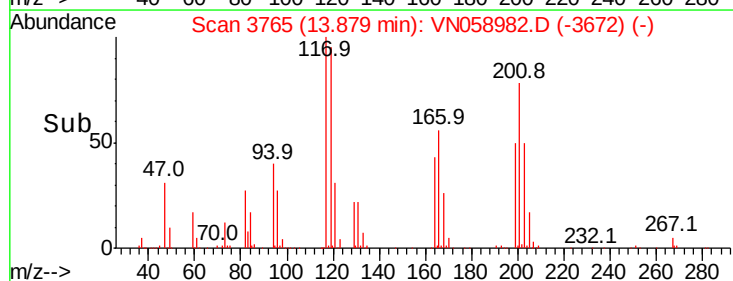
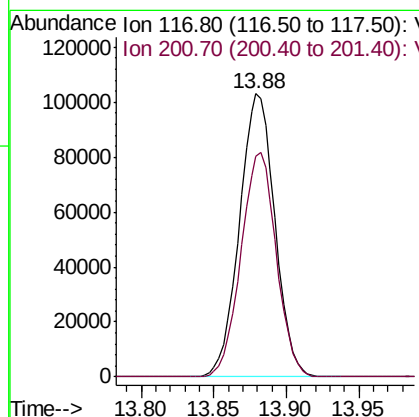
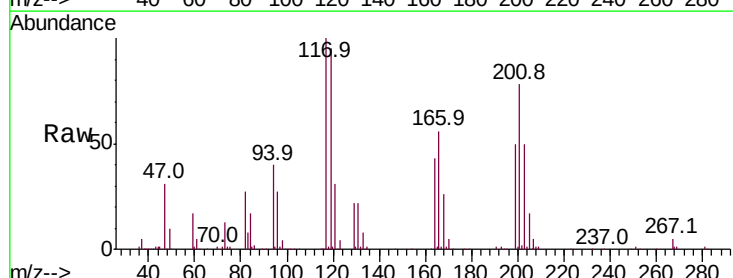
Manual Integrations
APPROVED

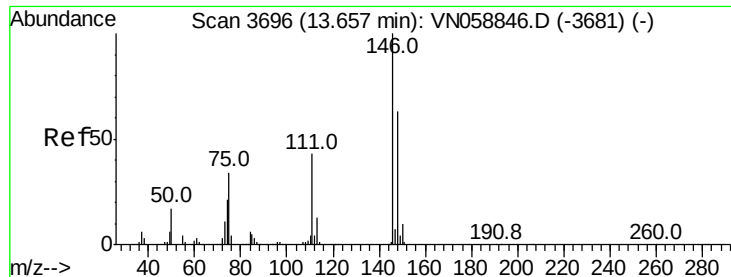
MMDadoda
10/28/2019 9:48:04 AM



#90
Hexachloroethane
Concen: 50.667 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.1	38.9	116.6





#91

1,2-Dichlorobenzene

Concen: 52.405 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Instrument :

MSVOA_N

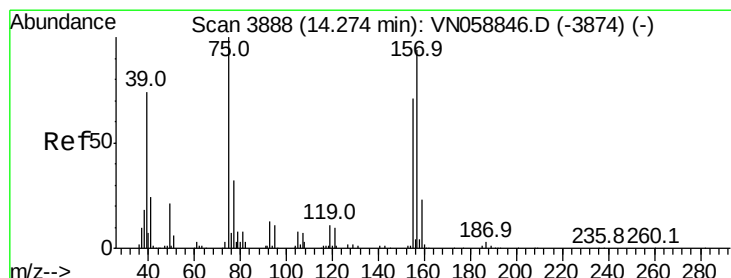
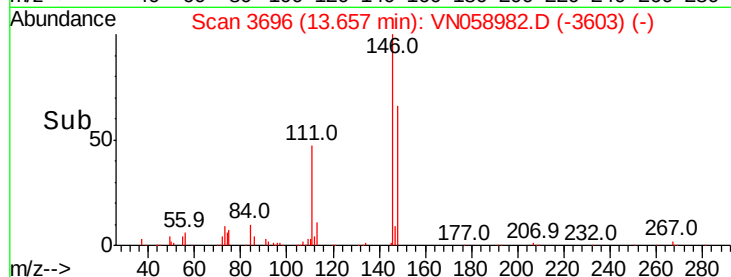
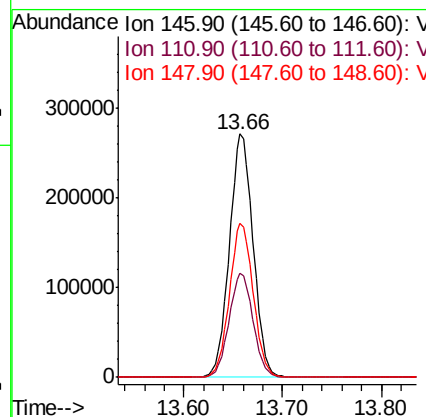
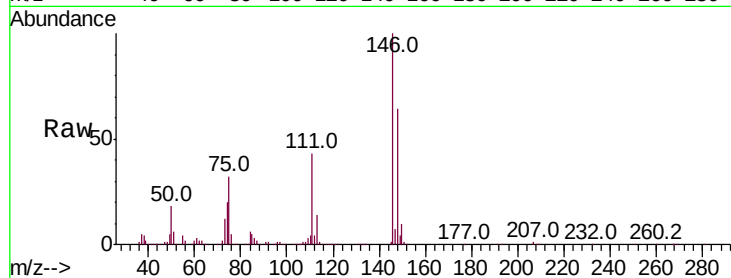
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	456440
Ion Ratio	Lower	Upper	
146	100		
111	43.0	21.6	64.8
148	63.4	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 41.982 ug/l

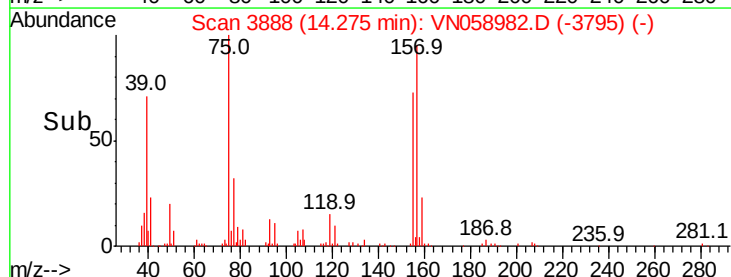
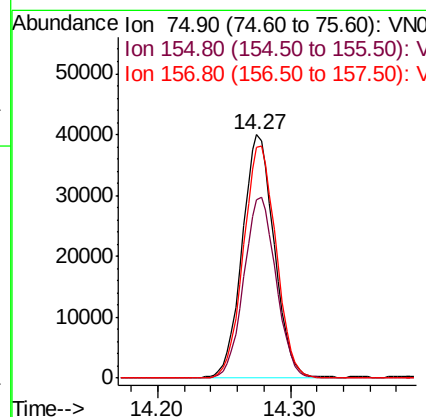
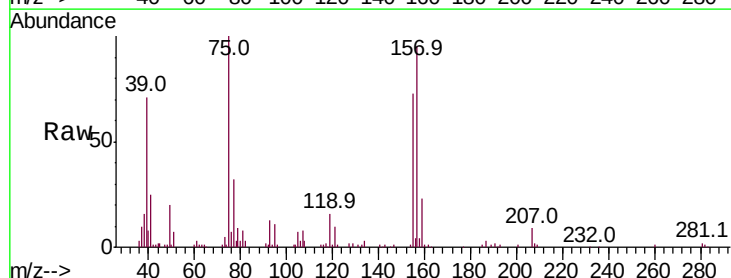
RT: 14.27 min Scan# 3888

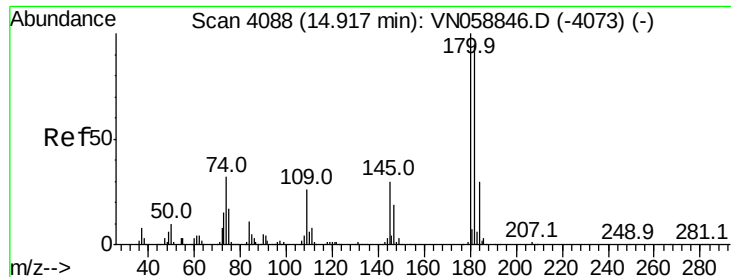
Delta R.T. 0.00 min

Lab File: VN058982.D

Acq: 25 Oct 2019 14:35

Tgt Ion:	75	Resp:	67133
Ion Ratio	Lower	Upper	
75	100		
155	74.4	35.6	106.8
157	96.5	47.4	142.2





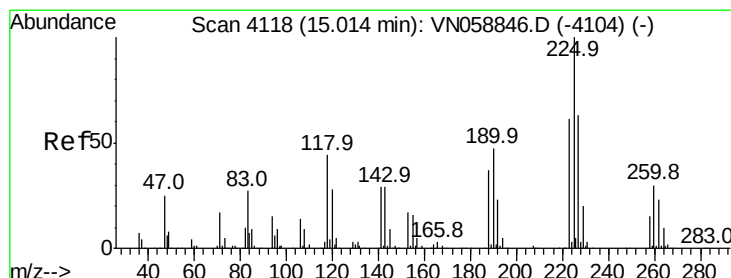
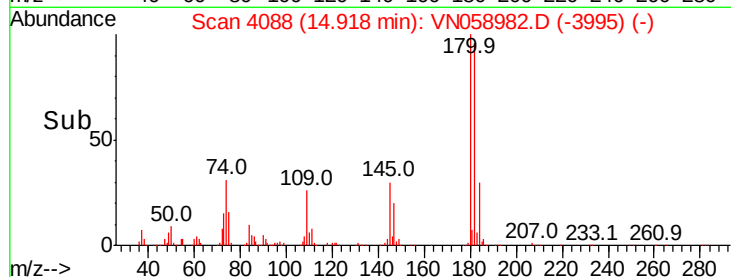
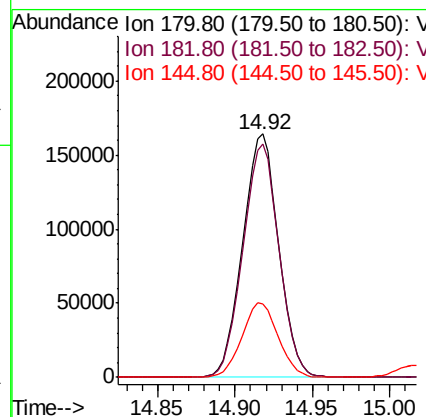
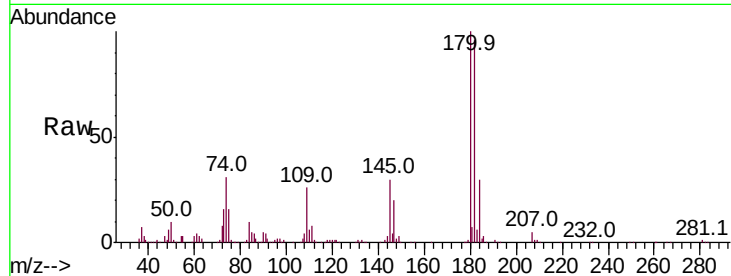
#93
 1,2,4-Trichlorobenzene
 Concen: 48.468 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058982.D
 Acq: 25 Oct 2019 14:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.2	47.3	142.0	
145	30.9	15.3	45.8	

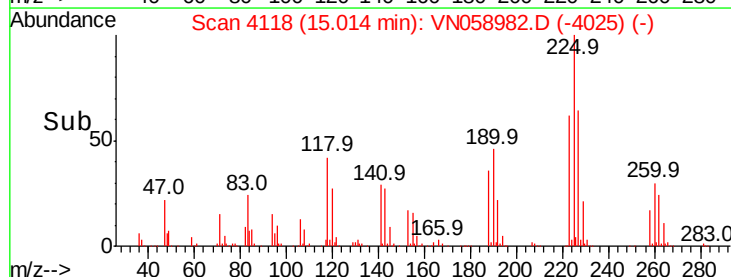
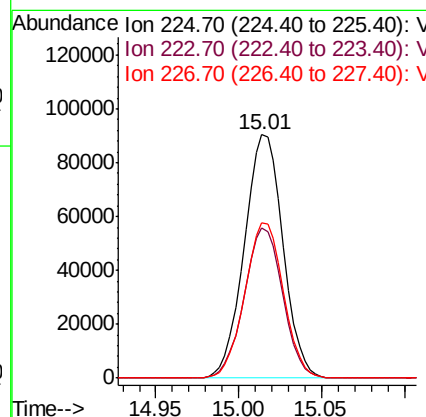
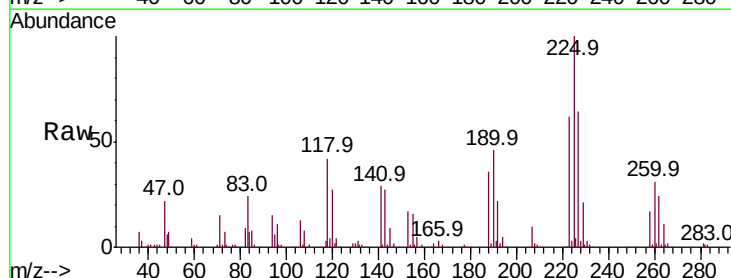
Manual Integrations
 APPROVED

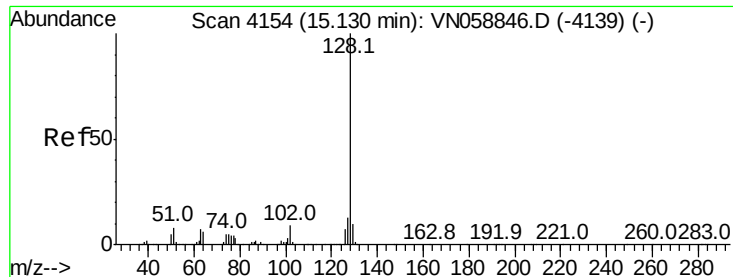
MMDadoda
 10/28/2019 9:48:04 AM



#94
 Hexachlorobutadiene
 Concen: 51.890 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN058982.D
 Acq: 25 Oct 2019 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.5	30.9	92.5	
227	63.6	31.6	94.7	





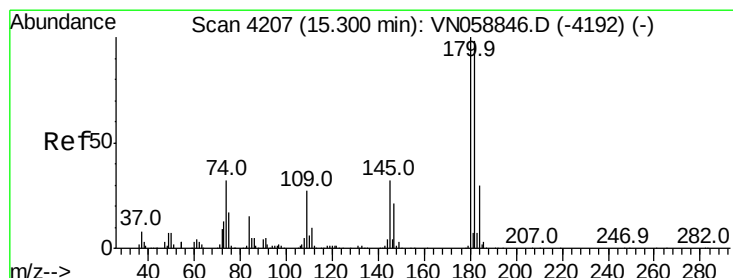
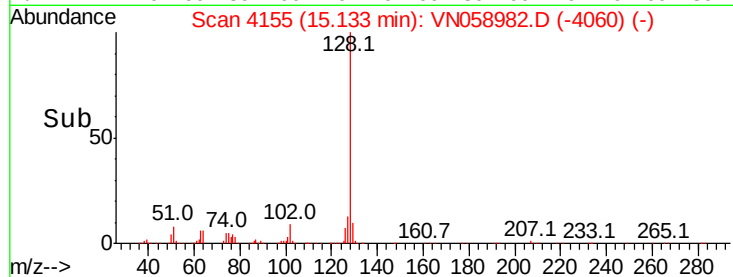
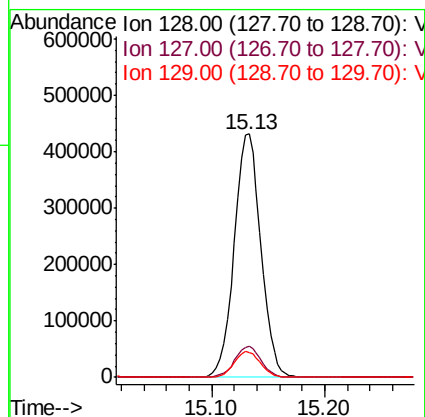
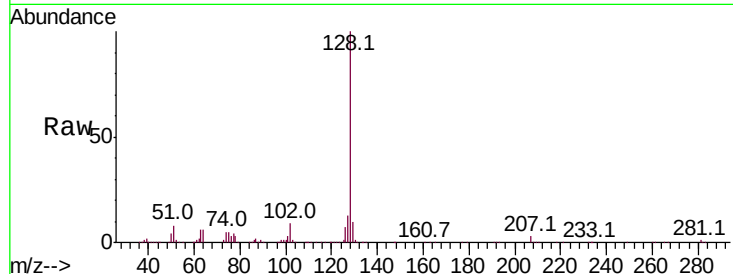
#95
Naphthalene
Concen: 45.046 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:	128	Resp:	706246
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.2
129	10.6	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
10/28/2019 9:48:04 AM



#96
1,2,3-Trichlorobenzene
Concen: 48.398 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN058982.D
Acq: 25 Oct 2019 14:35

Tgt Ion:	180	Resp:	257913
Ion Ratio	Lower	Upper	
180	100		
182	95.8	47.9	143.7
145	32.2	15.9	47.7

