

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN103119\
 Data File : VN059048.D
 Acq On : 31 Oct 2019 18:34
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 11/4/2019 7:04:16 AM

Quant Time: Nov 01 03:36:53 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	7.65	168	384350	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	616888	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	568590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	280266	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	269537	47.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.62%	
35) Dibromofluoromethane	7.57	113	208682	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	
50) Toluene-d8	10.08	98	783184	49.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.48%	
62) 4-Bromofluorobenzene	12.40	95	298138	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	207782	43.360	ug/l	99
3) Chloromethane	2.04	50	271413	45.731	ug/l	100
4) Vinyl Chloride	2.17	62	272314	46.210	ug/l	99
5) Bromomethane	2.53	94	138445	37.517	ug/l	97
6) Chloroethane	2.67	64	165173	43.708	ug/l	98
7) Trichlorofluoromethane	2.99	101	339659	46.583	ug/l	99
8) Diethyl Ether	3.39	74	135410	53.740	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.73	101	200099	49.502	ug/l	97
10) Methyl Iodide	3.93	142	210984	39.685	ug/l	98
11) Tert butyl alcohol	4.76	59	277252	296.383	ug/l	99
12) 1,1-Dichloroethene	3.71	96	188399	49.723	ug/l	96
13) Acrolein	3.58	56	131936	205.267	ug/l	100
14) Allyl chloride	4.30	41	400183	52.195	ug/l	94
15) Acrylonitrile	4.96	53	702840	298.694	ug/l	98
16) Acetone	3.79	43	645240	231.641	ug/l	97
17) Carbon Disulfide	4.03	76	509824	41.771	ug/l	99
18) Methyl Acetate	4.30	43	378468	59.762	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	741041	55.855	ug/l	99
20) Methylene Chloride	4.53	84	233678	49.130	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	208661	49.867	ug/l	94
22) Diisopropyl ether	5.93	45	838707	55.926	ug/l	94
23) Vinyl Acetate	5.87	43	3492667	289.879	ug/l	99
24) 1,1-Dichloroethane	5.82	63	443572	51.010	ug/l	99
25) 2-Butanone	6.81	43	993054	274.636	ug/l	98
26) 2,2-Dichloropropane	6.80	77	357537	47.535	ug/l	98
27) cis-1,2-Dichloroethene	6.81	96	249787	52.256	ug/l	97
28) Bromochloromethane	7.17	49	148215	51.179	ug/l	99
29) Tetrahydrofuran	7.19	42	649916	293.818	ug/l	99
30) Chloroform	7.35	83	432498	49.583	ug/l	98
31) Cyclohexane	7.63	56	374784	46.264	ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	369395	50.242	ug/l	98
36) 1,1-Dichloropropene	7.77	75	315668	49.982	ug/l	99
37) Ethyl Acetate	6.91	43	389239	56.562	ug/l	98
38) Carbon Tetrachloride	7.75	117	317969	48.871	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN103119\
 Data File : VN059048.D
 Acq On : 31 Oct 2019 18:34
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 11/4/2019 7:04:16 AM

Quant Time: Nov 01 03:36:53 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	352656	49.729	ug/l	99
40) Benzene	8.02	78	966833	52.132	ug/l	99
41) Methacrylonitrile	7.15	41	158509	51.717	ug/l #	100
42) 1,2-Dichloroethane	8.11	62	347662	48.665	ug/l	98
43) Isopropyl Acetate	8.15	43	621793	56.339	ug/l	99
44) Trichloroethene	8.82	130	230135	50.941	ug/l	96
45) 1,2-Dichloropropane	9.11	63	268902	52.876	ug/l	100
46) Dibromomethane	9.20	93	166999	51.944	ug/l	97
47) Bromodichloromethane	9.39	83	347878	52.500	ug/l	100
48) Methyl methacrylate	9.19	41	281492	56.216	ug/l	94
49) 1,4-Dioxane	9.19	88	102309	1244.645	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	2003598	310.807	ug/l	97
52) Toluene	10.15	92	587240	53.395	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	392851	53.556	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	422014	53.850	ug/l	94
55) 1,1,2-Trichloroethane	10.56	97	242215	53.462	ug/l	98
56) Ethyl methacrylate	10.43	69	400896	52.565	ug/l	94
57) 1,3-Dichloropropane	10.71	76	427803	53.800	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	832348	258.796	ug/l	100
59) 2-Hexanone	10.75	43	1512221	303.575	ug/l	97
60) Dibromochloromethane	10.90	129	265476	54.439	ug/l	99
61) 1,2-Dibromoethane	11.00	107	251353	54.211	ug/l	100
64) Tetrachloroethene	10.63	164	197430	49.580	ug/l	98
65) Chlorobenzene	11.43	112	626087	54.086	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	241530	55.293	ug/l	99
67) Ethyl Benzene	11.51	91	1142435	56.260	ug/l	98
68) m/p-Xylenes	11.62	106	841978	111.808	ug/l	100
69) o-Xylene	11.95	106	402439	56.033	ug/l	99
70) Styrene	11.97	104	689168	51.916	ug/l	98
71) Bromoform	12.13	173	196142	57.905	ug/l #	99
73) Isopropylbenzene	12.25	105	1100374	53.723	ug/l	99
74) N-amyl acetate	12.07	43	539363	58.085	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	396653	55.076	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	356337m	54.859	ug/l	
77) Bromobenzene	12.53	156	268826	53.249	ug/l	97
78) n-propylbenzene	12.60	91	1317713	54.427	ug/l	100
79) 2-Chlorotoluene	12.68	91	787248	53.128	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	946337	54.991	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	138655	55.609	ug/l	95
82) 4-Chlorotoluene	12.78	91	803362	53.052	ug/l	100
83) tert-Butylbenzene	13.00	119	797804	54.214	ug/l	99
84) 1,2,4-Trimethylbenzene	13.05	105	943287	55.573	ug/l	99
85) sec-Butylbenzene	13.18	105	1083991	55.250	ug/l	98
86) p-Isopropyltoluene	13.30	119	978515	56.524	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	486180	53.858	ug/l	100
88) 1,4-Dichlorobenzene	13.37	146	483699	53.519	ug/l	99
89) n-Butylbenzene	13.62	91	869354	54.667	ug/l	99
90) Hexachloroethane	13.88	117	184295	52.537	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	492062	55.459	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.28	75	85212	52.311	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN103119\
Data File : VN059048.D
Acq On : 31 Oct 2019 18:34
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

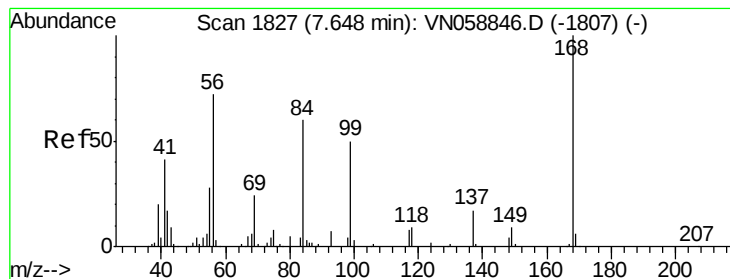
Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM

Quant Time: Nov 01 03:36:53 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	288201	51.518	ug/l	99
94) Hexachlorobutadiene	15.02	225	151935	52.834	ug/l	98
95) Naphthalene	15.13	128	867836	53.879	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	292584	53.625	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 168 Resp: 384350

Ion Ratio Lower Upper

168 100

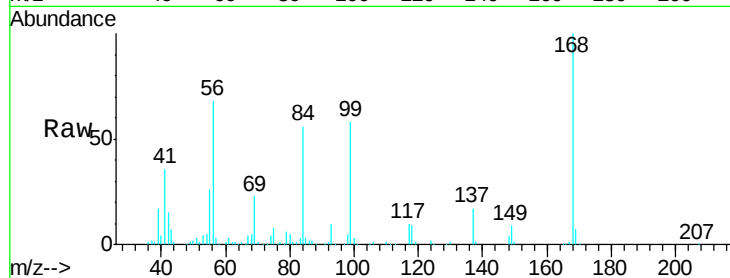
99 57.6 48.1 72.1

Manual Integrations

APPROVED

MMDadoda

11/4/2019 7:04:16 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

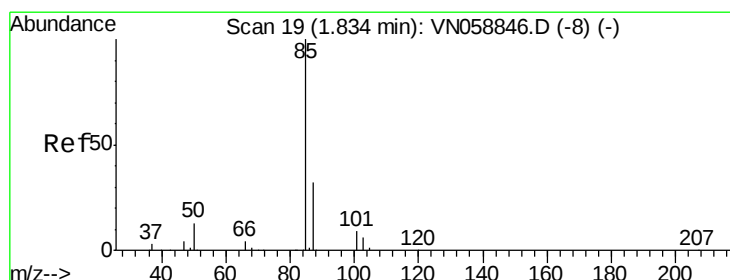
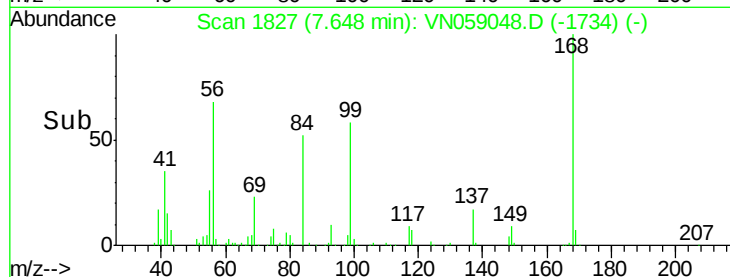
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 43.360 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN059048.D

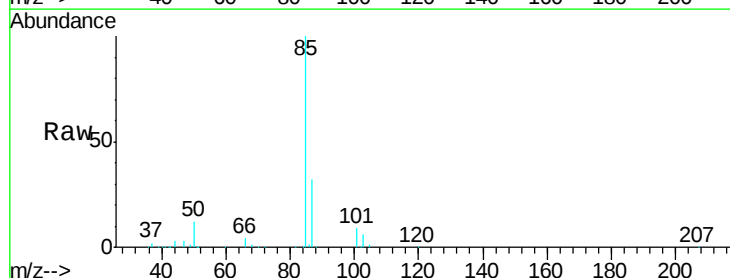
Acq: 31 Oct 2019 18:34

Tgt Ion: 85 Resp: 207782

Ion Ratio Lower Upper

85 100

87 31.7 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

150000

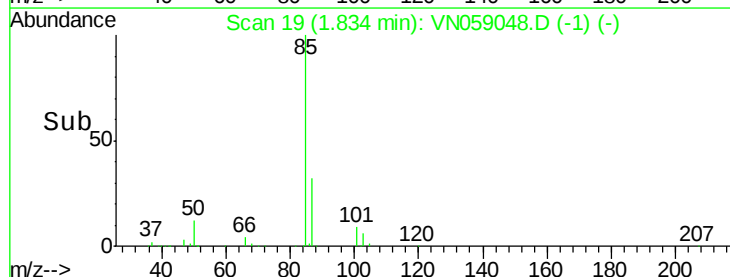
100000

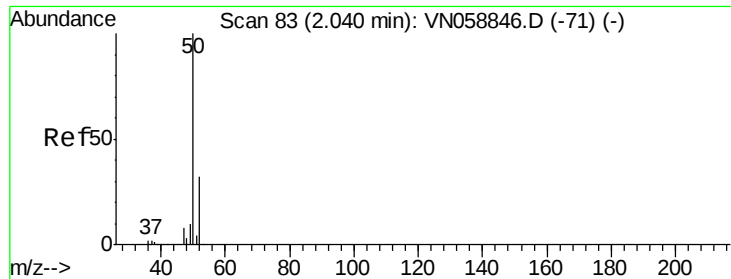
50000

0

1.80 1.90

Time-->





#3

Chloromethane

Concen: 45.731 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 271413

Ion Ratio Lower Upper

50 100

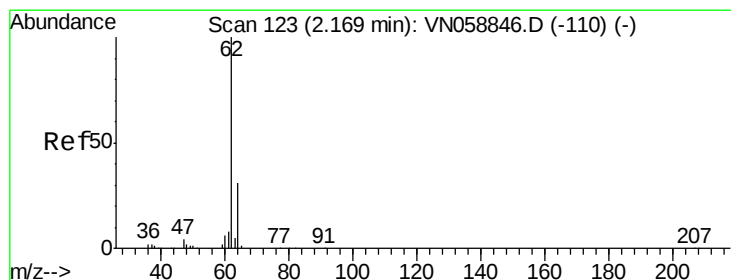
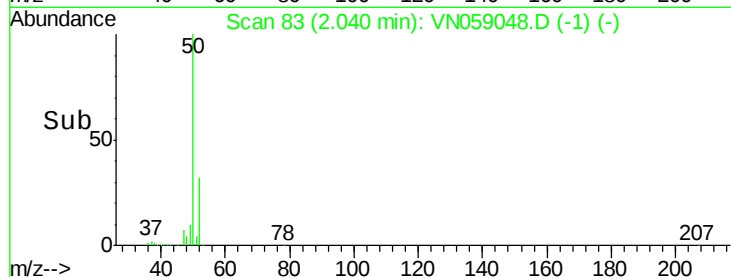
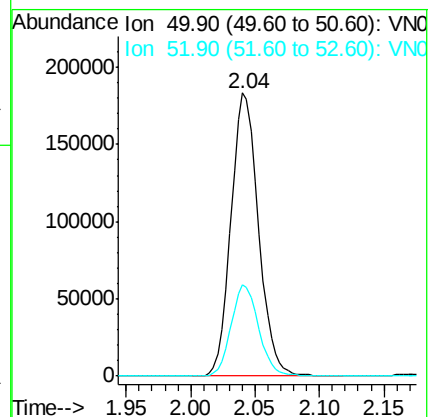
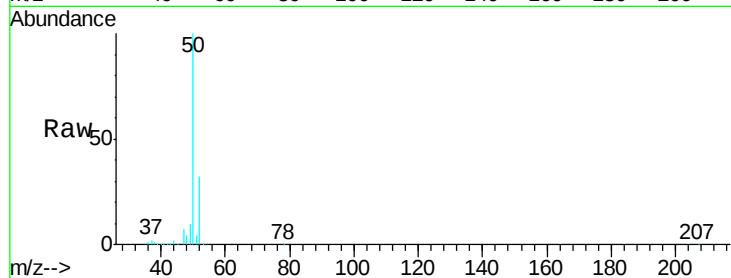
52 32.1 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

11/4/2019 7:04:16 AM



#4

Vinyl Chloride

Concen: 46.210 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN059048.D

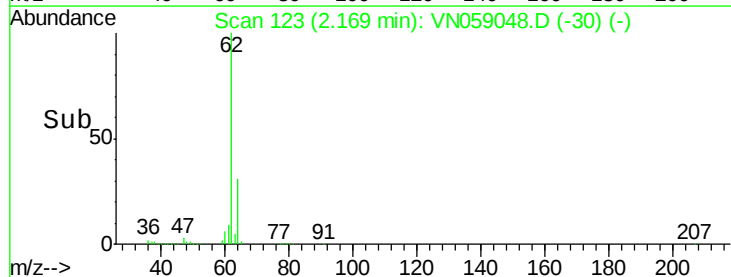
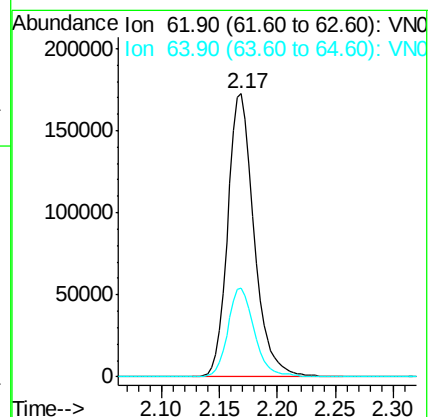
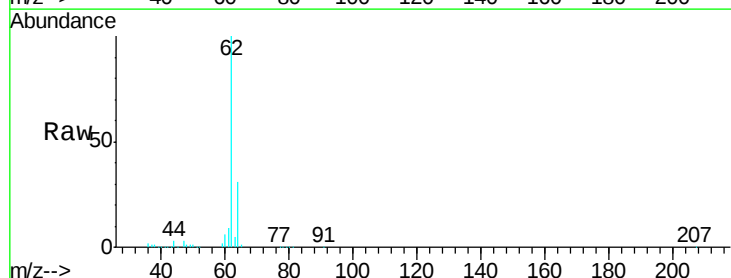
Acq: 31 Oct 2019 18:34

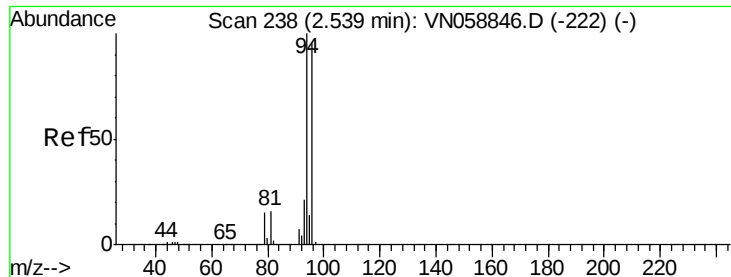
Tgt Ion: 62 Resp: 272314

Ion Ratio Lower Upper

62 100

64 31.5 24.6 36.8





#5

Bromomethane

Concen: 37.517 ug/l

RT: 2.53 min Scan# 235

Delta R.T. -0.01 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 94 Resp: 138445

Ion Ratio Lower Upper

94 100

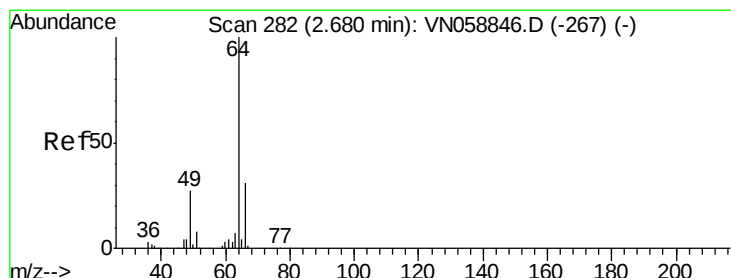
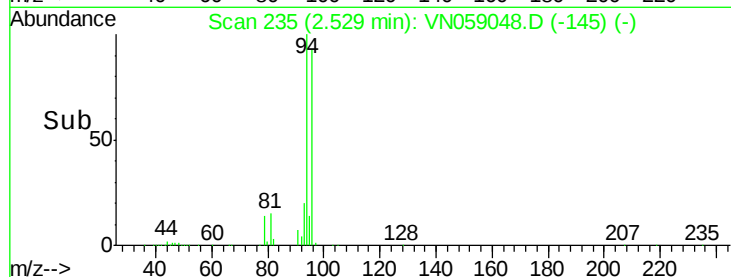
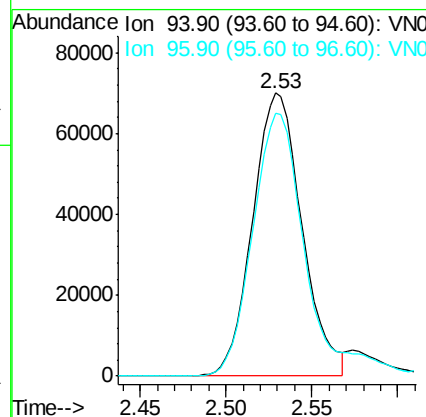
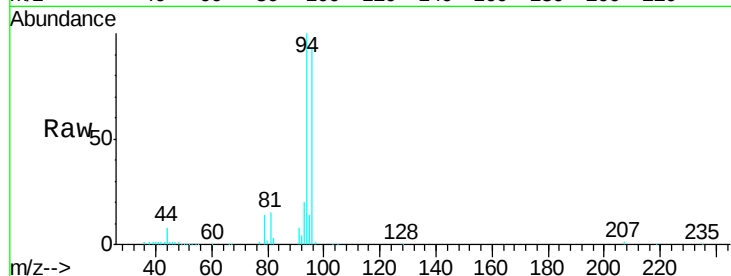
96 93.2 77.0 115.6

Manual Integrations

APPROVED

MMDadoda

11/4/2019 7:04:16 AM



#6

Chloroethane

Concen: 43.708 ug/l

RT: 2.67 min Scan# 280

Delta R.T. -0.01 min

Lab File: VN059048.D

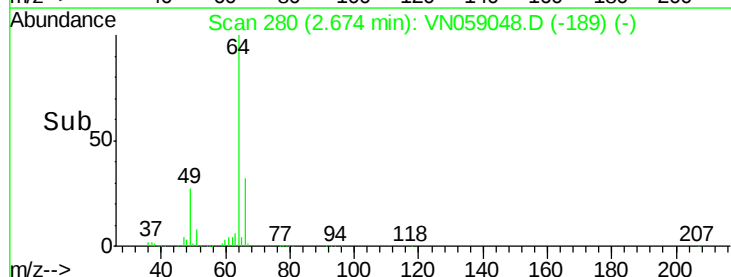
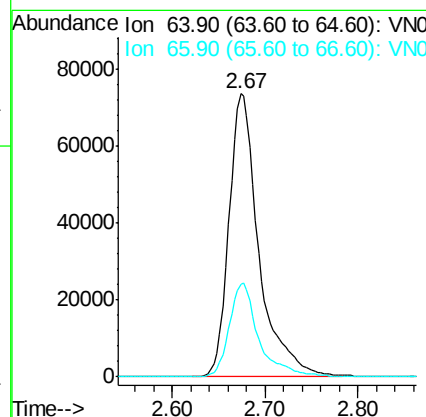
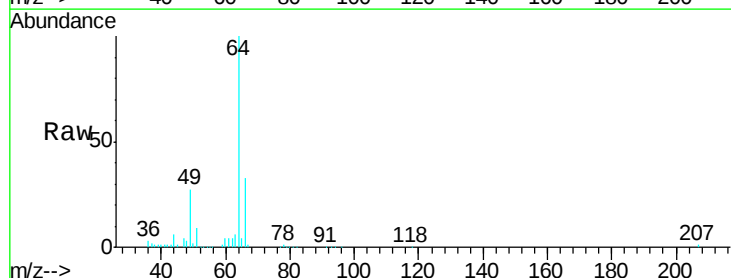
Acq: 31 Oct 2019 18:34

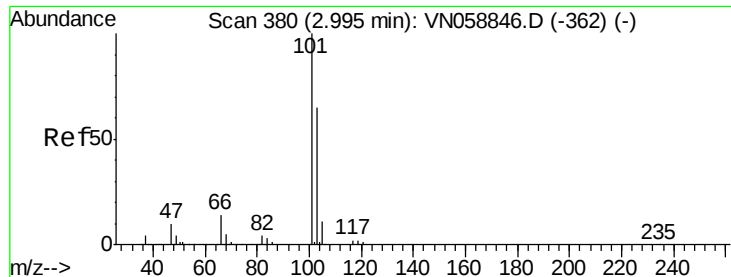
Tgt Ion: 64 Resp: 165173

Ion Ratio Lower Upper

64 100

66 32.5 25.0 37.4





#7

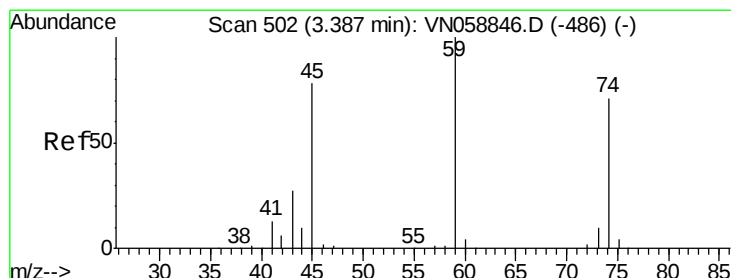
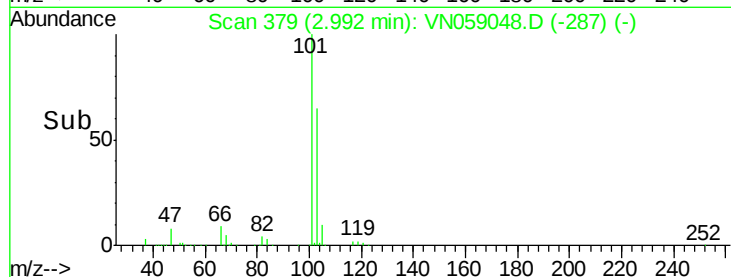
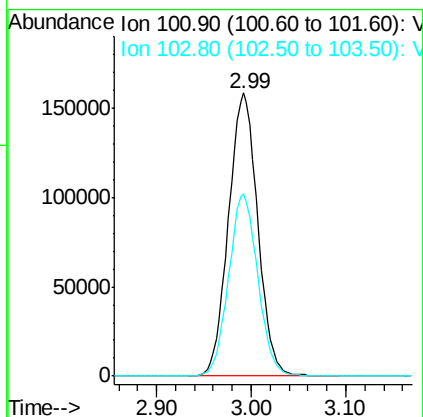
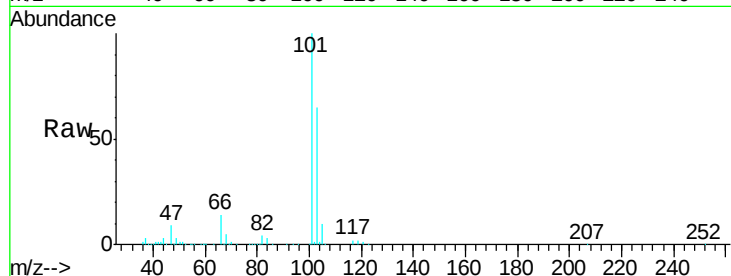
Trichlorofluoromethane
Concen: 46.583 ug/l
RT: 2.99 min Scan# 379
Delta R.T. -0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 101 Resp: 339659
Ion Ratio Lower Upper
101 100
103 64.6 52.2 78.2

Manual Integrations
APPROVED

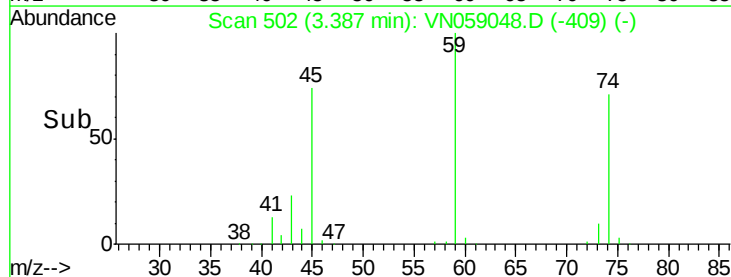
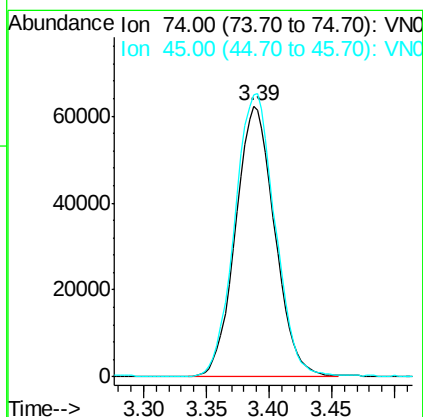
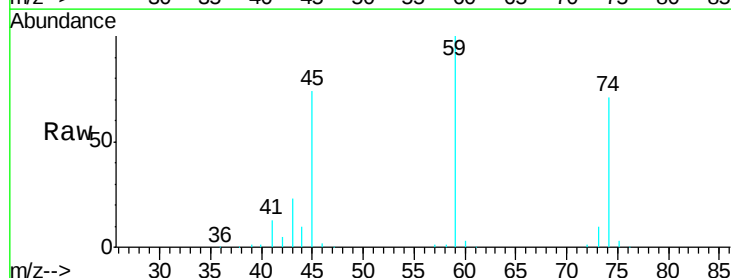
MMDadoda
11/4/2019 7:04:16 AM

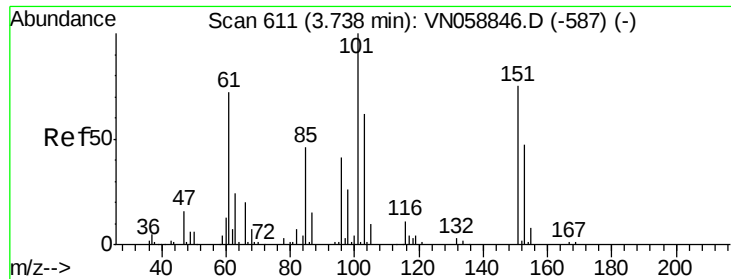


#8

Diethyl Ether
Concen: 53.740 ug/l
RT: 3.39 min Scan# 502
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion: 74 Resp: 135410
Ion Ratio Lower Upper
74 100
45 106.9 54.9 164.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.502 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

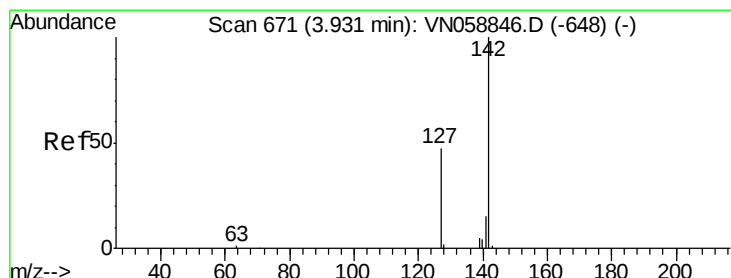
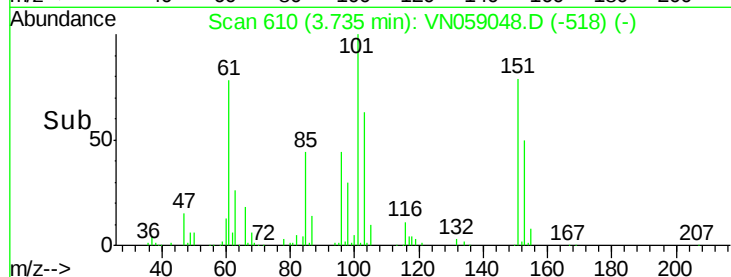
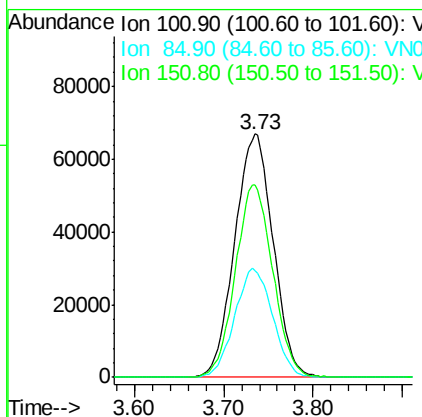
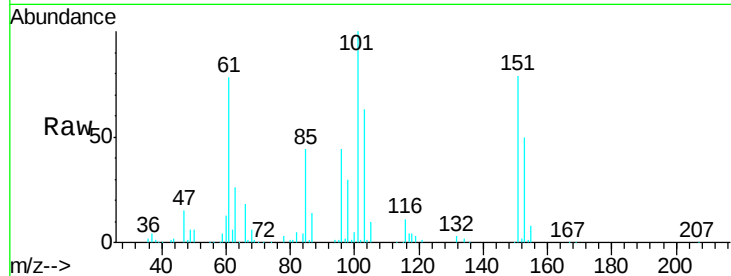
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	101	Resp:	200099
Ion Ratio	Lower	Upper	
101	100		
85	44.1	37.2	55.8
151	76.8	59.9	89.9

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#10

Methyl Iodide

Concen: 39.685 ug/l

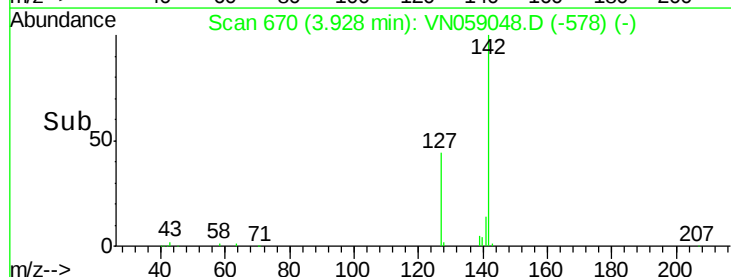
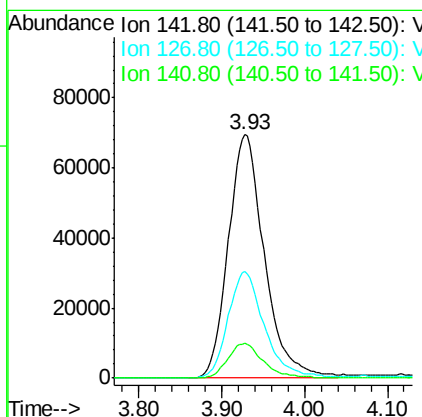
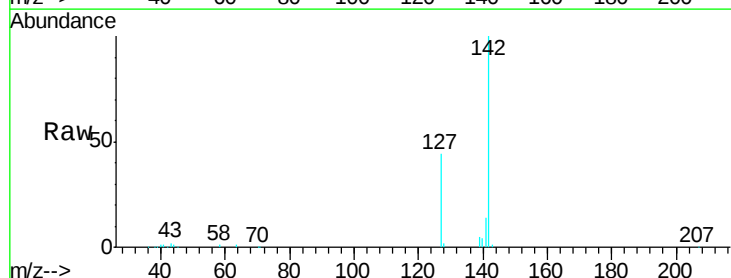
RT: 3.93 min Scan# 670

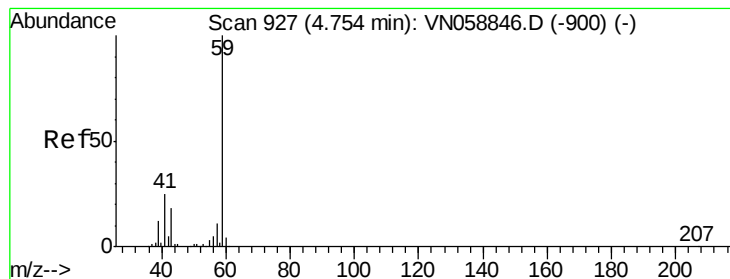
Delta R.T. -0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Tgt Ion:	142	Resp:	210984
Ion Ratio	Lower	Upper	
142	100		
127	43.9	36.6	54.8
141	14.1	11.4	17.2





#11

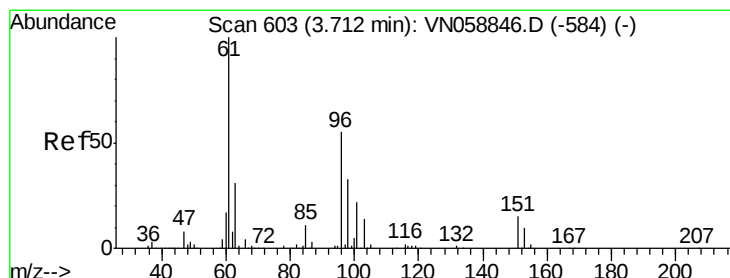
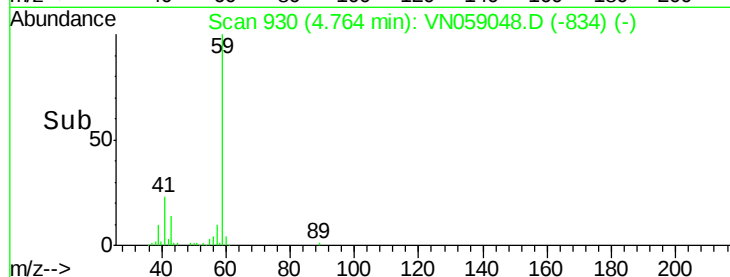
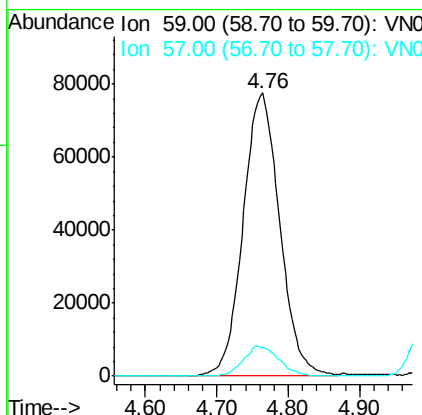
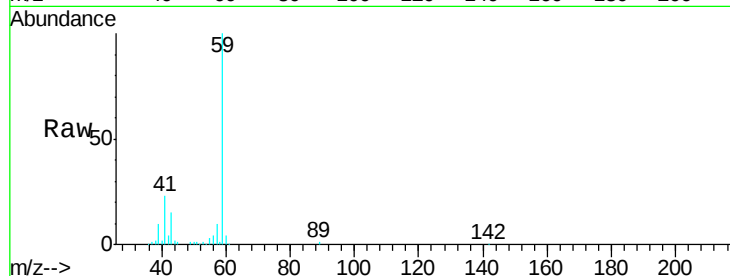
Tert butyl alcohol
Concen: 296.383 ug/l
RT: 4.76 min Scan# 930
Delta R.T. 0.01 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 277252
Ion Ratio Lower Upper
59 100
57 10.3 8.6 12.8

Manual Integrations
APPROVED

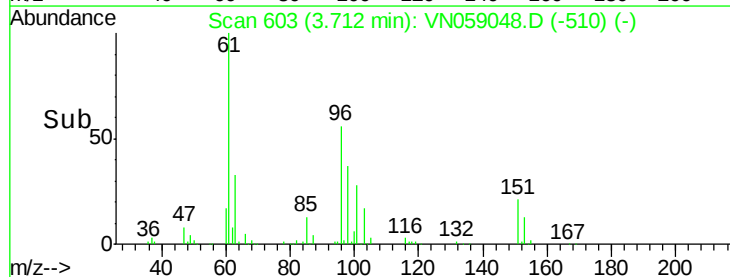
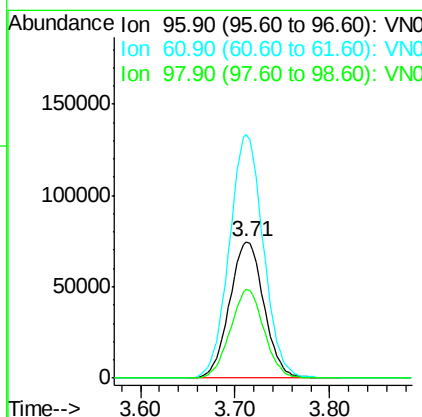
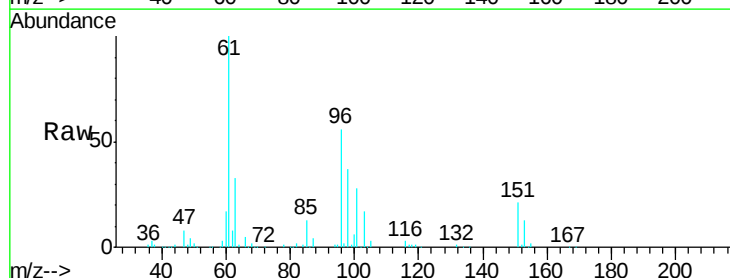
MMDadoda
11/4/2019 7:04:16 AM

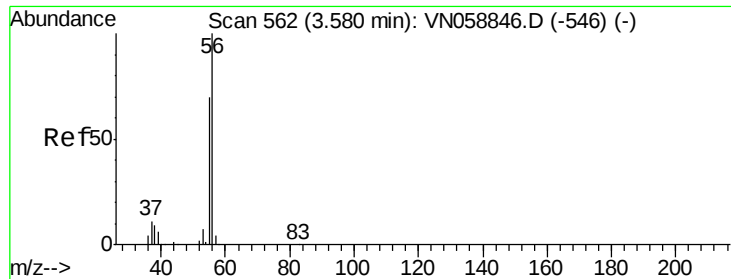


#12

1,1-Dichloroethene
Concen: 49.723 ug/l
RT: 3.71 min Scan# 603
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion: 96 Resp: 188399
Ion Ratio Lower Upper
96 100
61 178.1 146.2 219.2
98 65.2 48.7 73.1





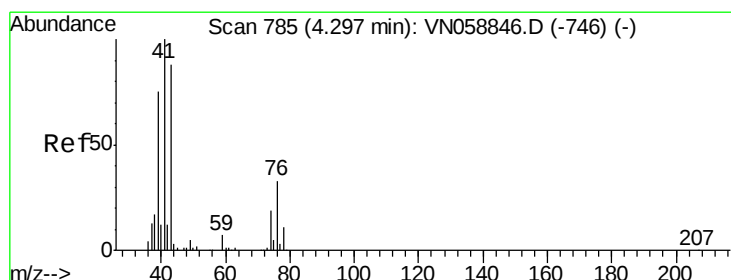
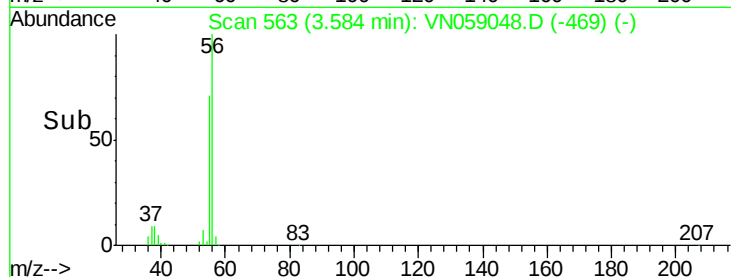
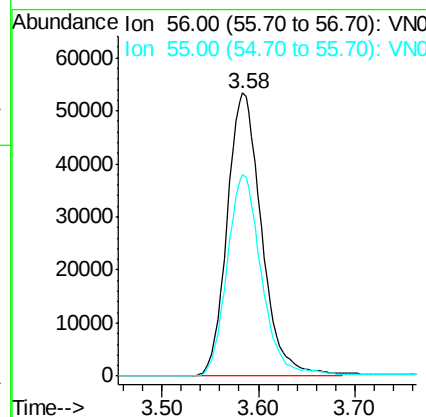
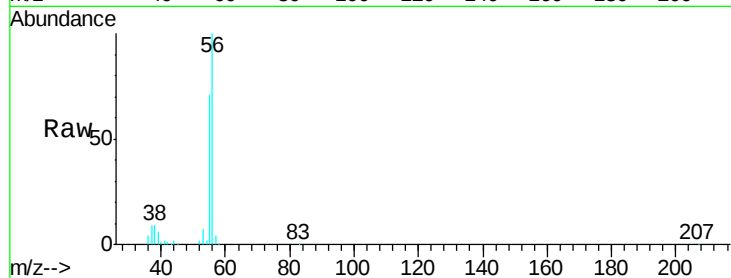
#13
Acrolein
Concen: 205.267 ug/l
RT: 3.58 min Scan# 563
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.6	85.0

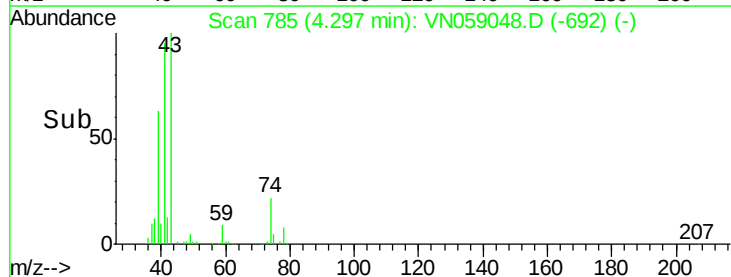
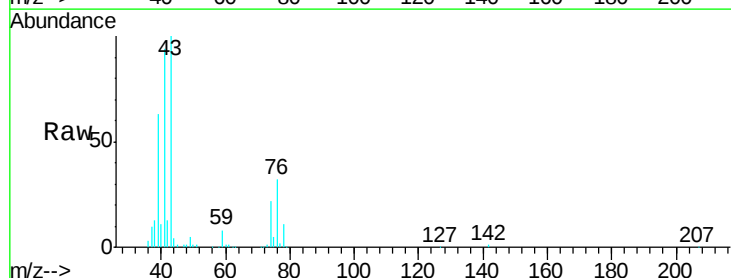
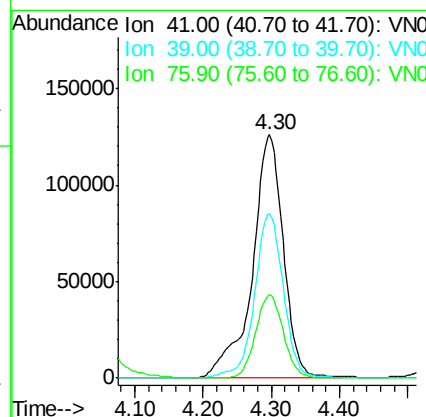
Manual Integrations
APPROVED

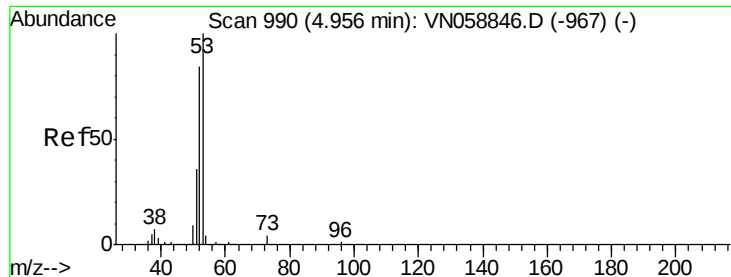
MMDadoda
11/4/2019 7:04:16 AM



#14
Allyl chloride
Concen: 52.195 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
41	100		
39	62.5	55.9	83.9
76	30.0	24.1	36.1





#15

Acrylonitrile

Concen: 298.694 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

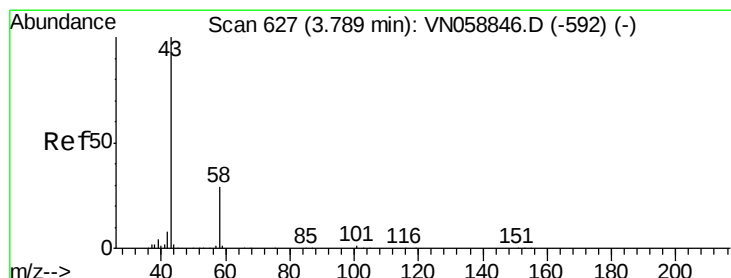
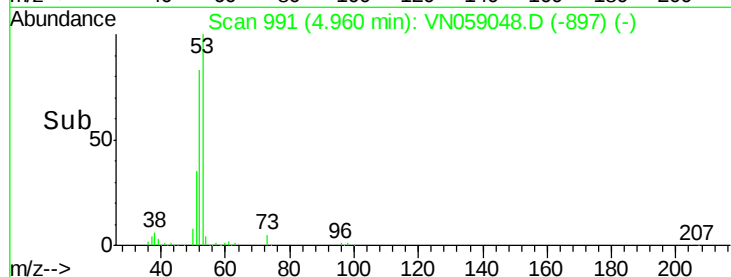
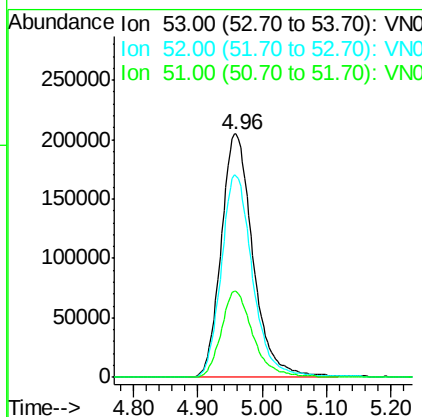
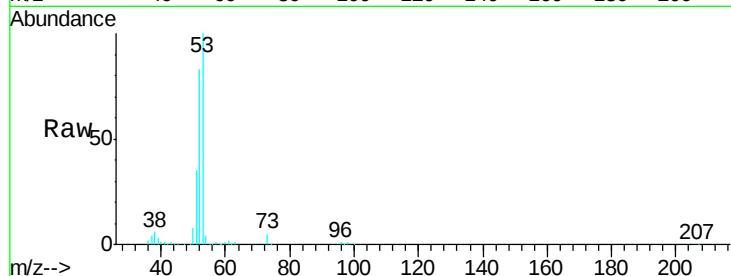
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	53	Resp:	702840
Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.6	99.8
51	35.3	29.2	43.8

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#16

Acetone

Concen: 231.641 ug/l

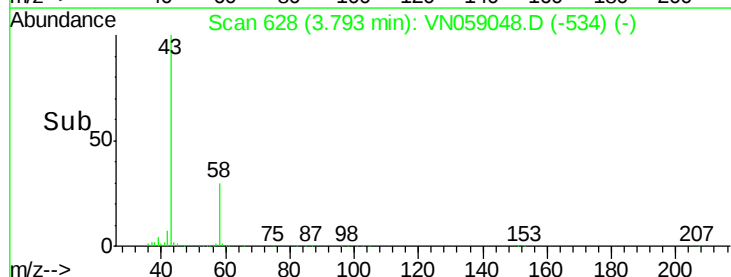
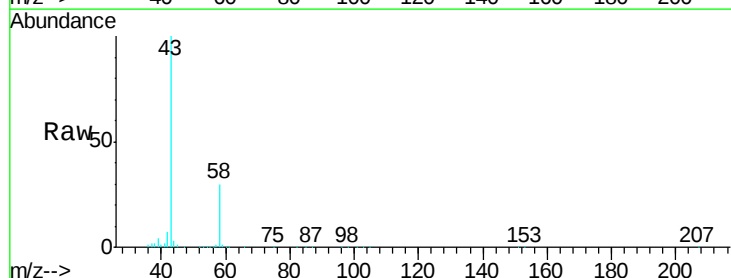
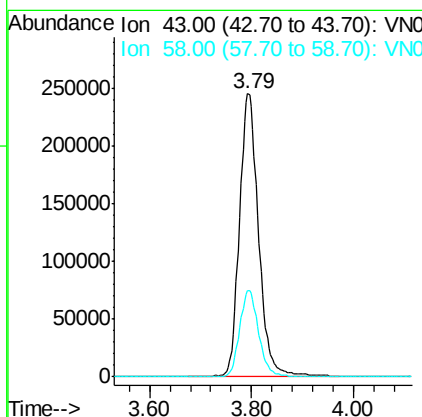
RT: 3.79 min Scan# 628

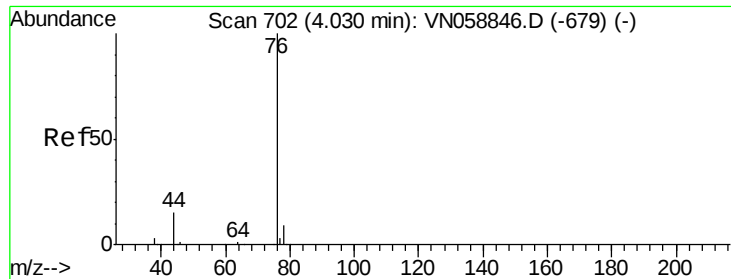
Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Tgt Ion:	43	Resp:	645240
Ion	Ratio	Lower	Upper
43	100		
58	30.3	23.1	34.7





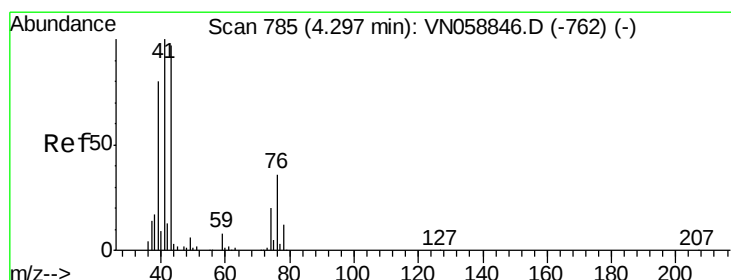
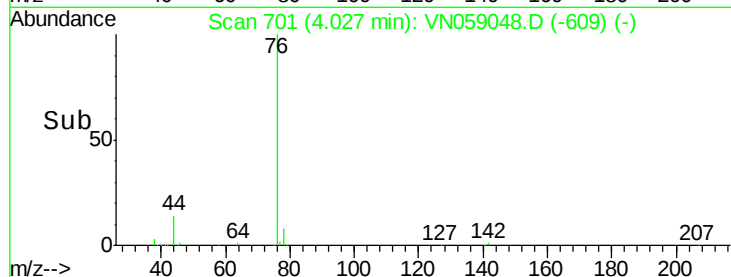
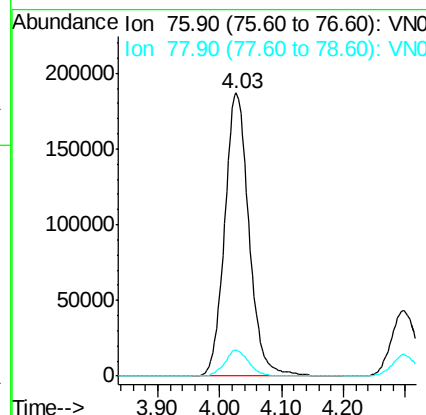
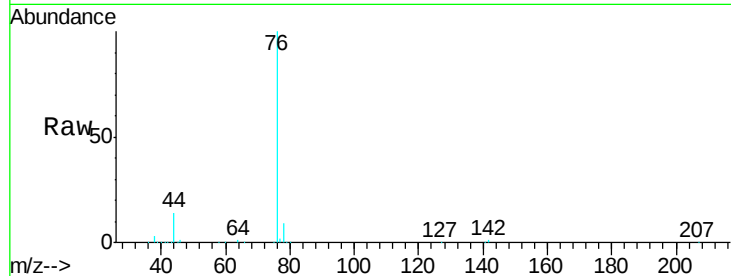
#17
Carbon Disulfide
Concen: 41.771 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 509824
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7

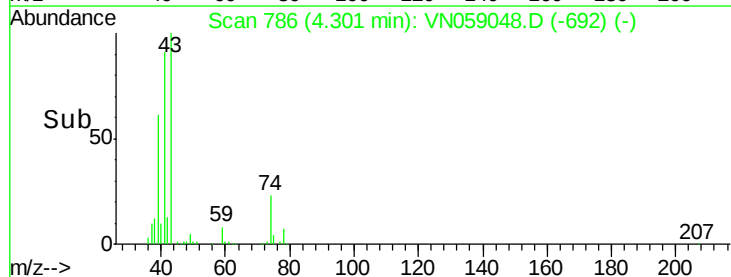
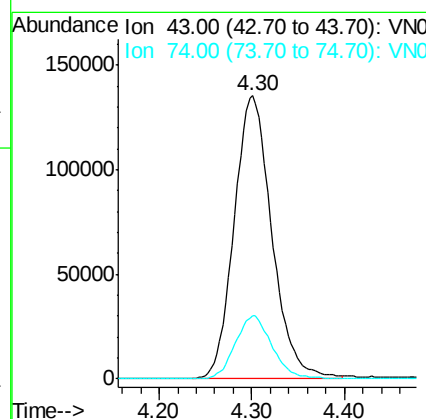
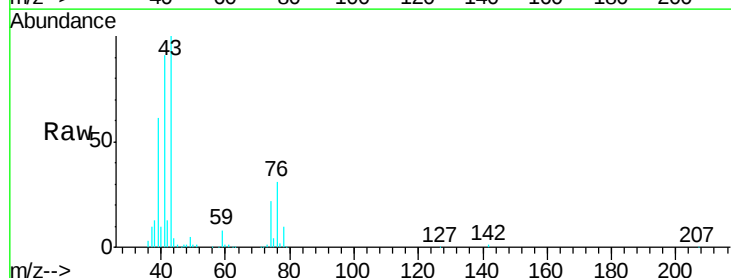
Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#18
Methyl Acetate
Concen: 59.762 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion: 43 Resp: 378468
Ion Ratio Lower Upper
43 100
74 22.0 17.1 25.7





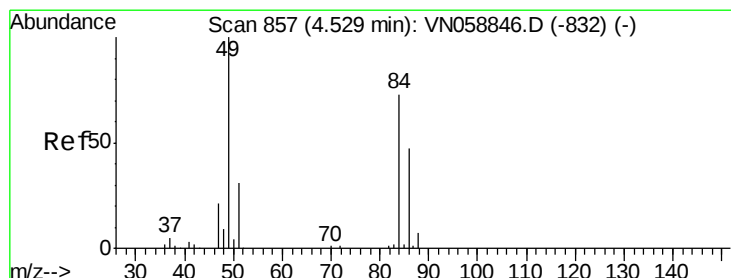
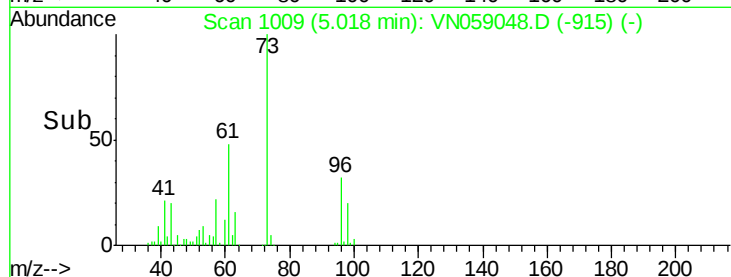
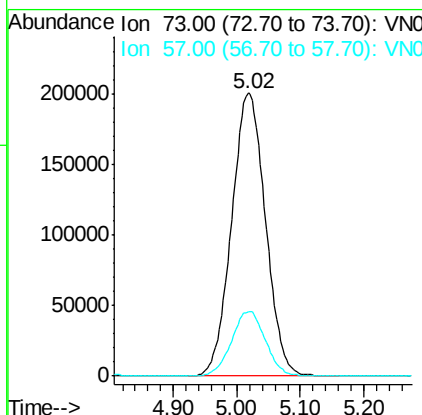
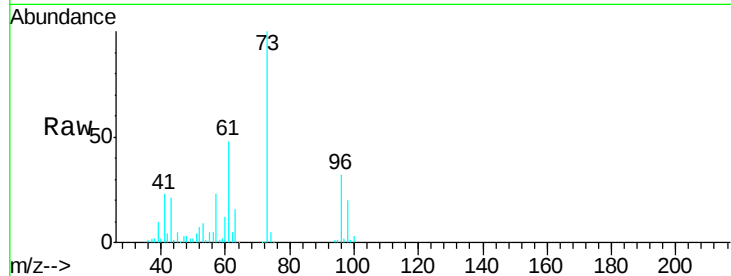
#19
Methyl tert-butyl Ether
Concen: 55.855 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 741041
Ion Ratio Lower Upper
73 100
57 22.7 17.9 26.9

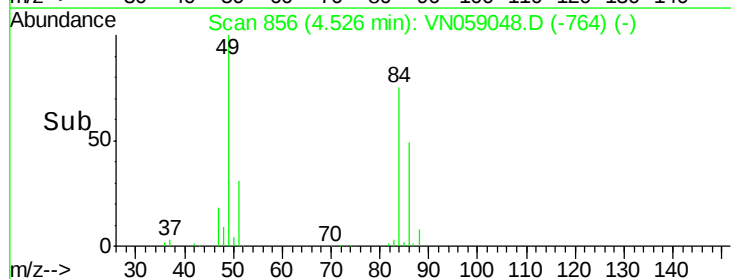
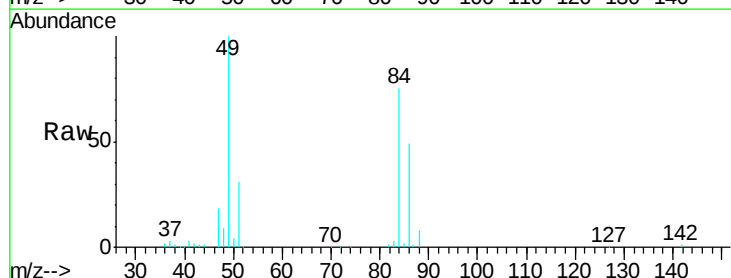
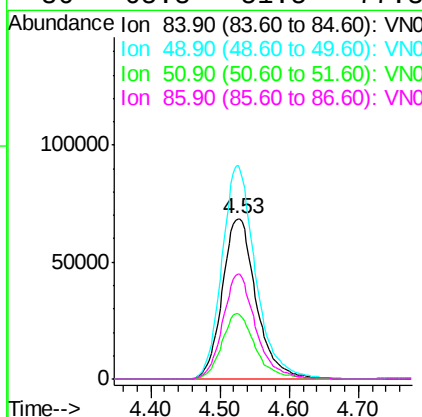
Manual Integrations
APPROVED

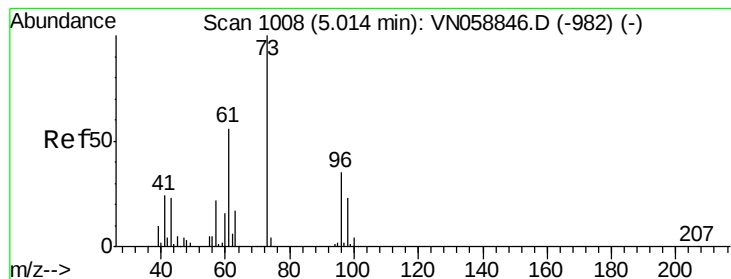
MMDadoda
11/4/2019 7:04:16 AM



#20
Methylene Chloride
Concen: 49.130 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion: 84 Resp: 233678
Ion Ratio Lower Upper
84 100
49 133.5 109.6 164.4
51 40.8 33.8 50.6
86 65.8 51.5 77.3





#21

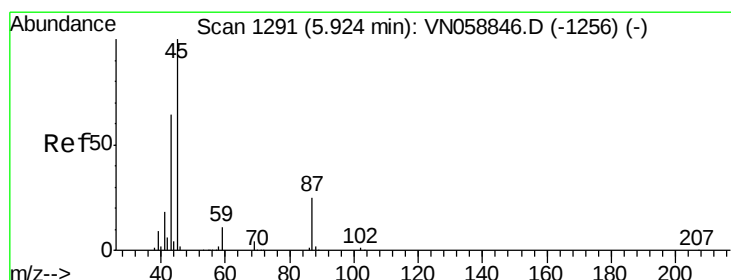
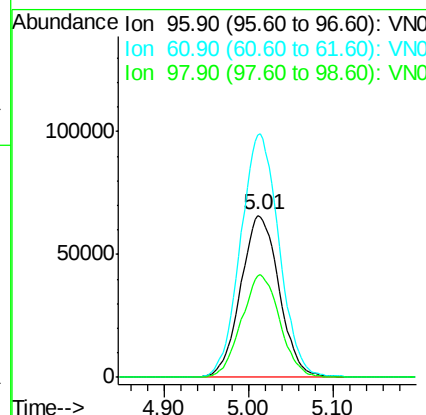
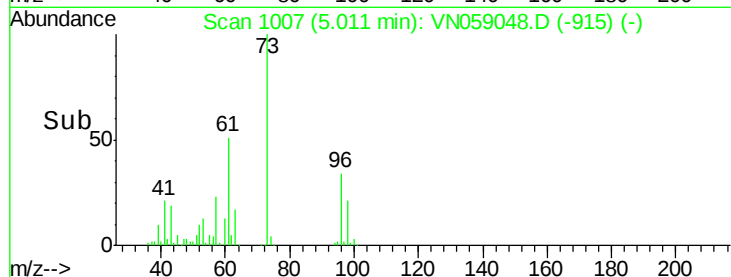
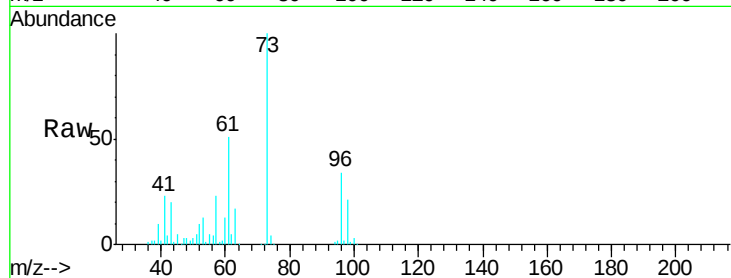
trans-1,2-Dichloroethene
Concen: 49.867 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.5	126.7	190.1
98	62.5	52.0	78.0

Manual Integrations
APPROVED

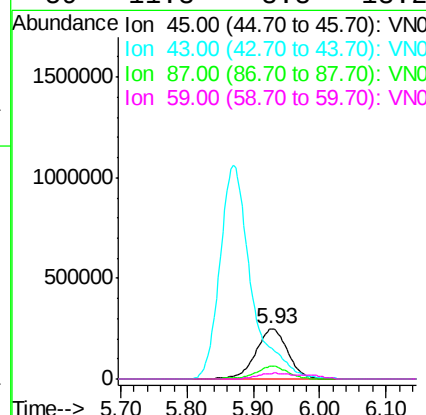
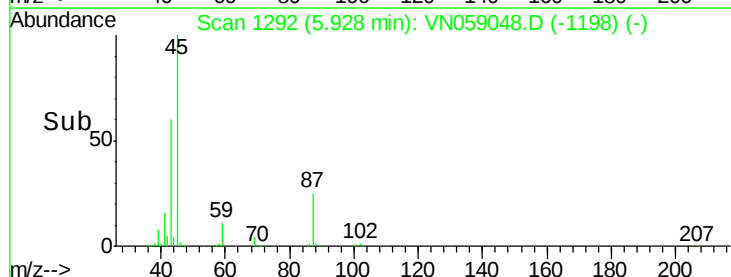
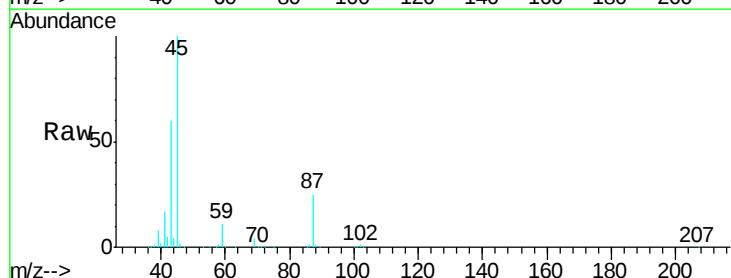
MMDadoda
11/4/2019 7:04:16 AM

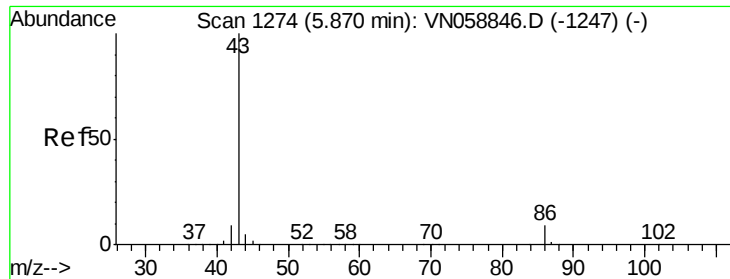


#22

Diisopropyl ether
Concen: 55.926 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.3	52.9	79.3
87	24.8	20.2	30.4
59	11.3	8.8	13.2





#23

Vinyl Acetate

Concen: 289.879 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 3492667

Ion Ratio Lower Upper

43 100

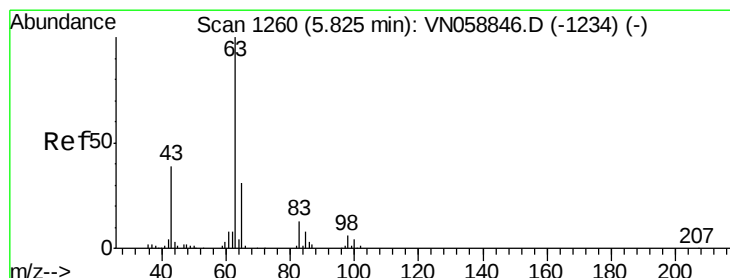
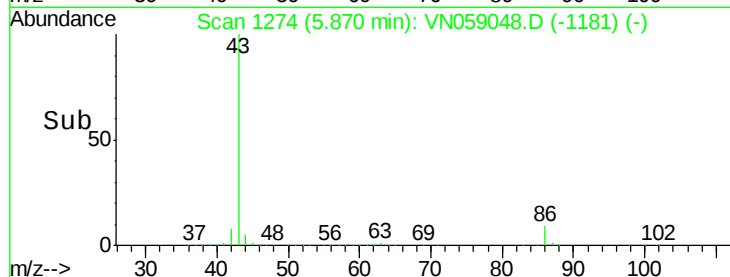
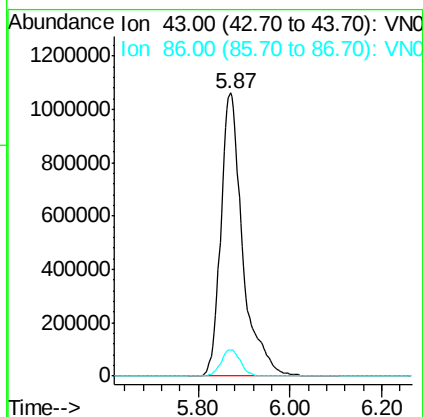
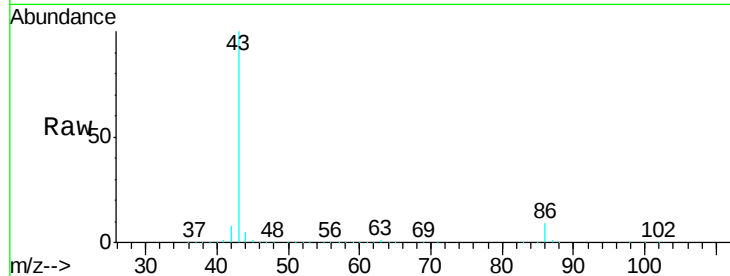
86 9.4 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

11/4/2019 7:04:16 AM



#24

1,1-Dichloroethane

Concen: 51.010 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

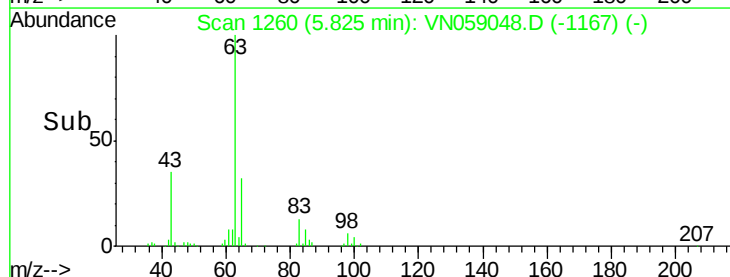
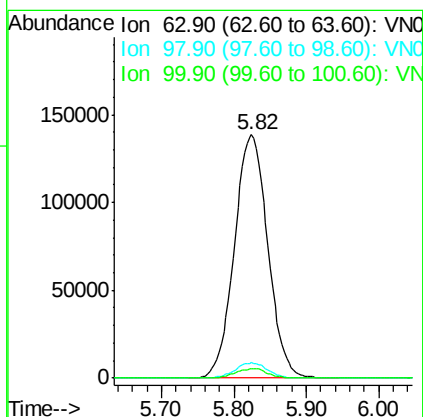
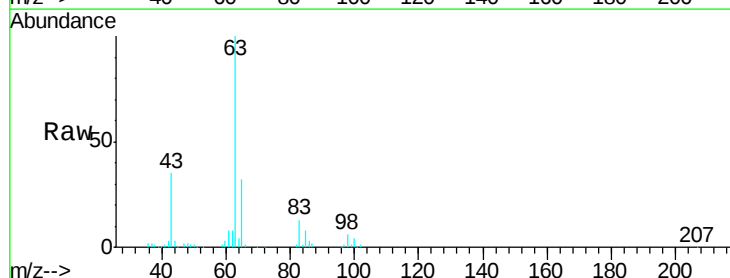
Tgt Ion: 63 Resp: 443572

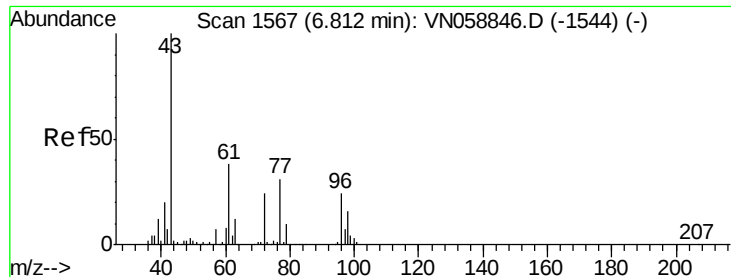
Ion Ratio Lower Upper

63 100

98 6.2 2.8 8.4

100 3.8 1.9 5.7





#25

2-Butanone

Concen: 274.636 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 993054

Ion Ratio Lower Upper

43 100

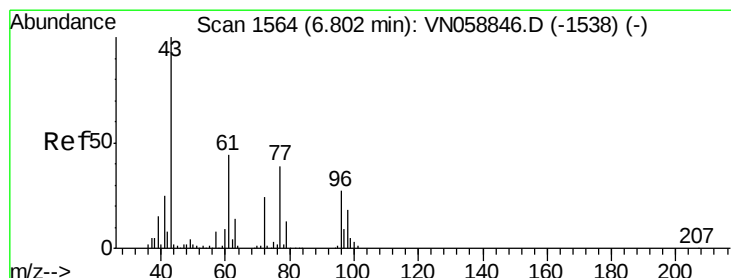
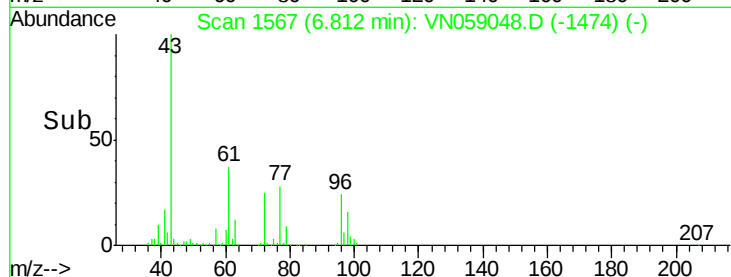
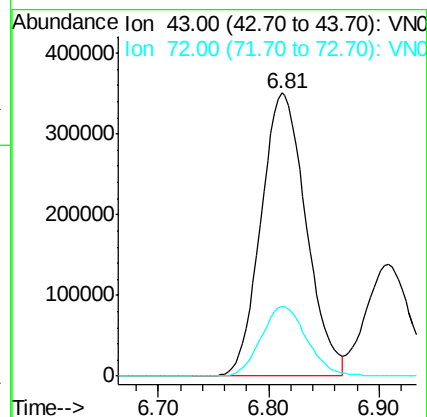
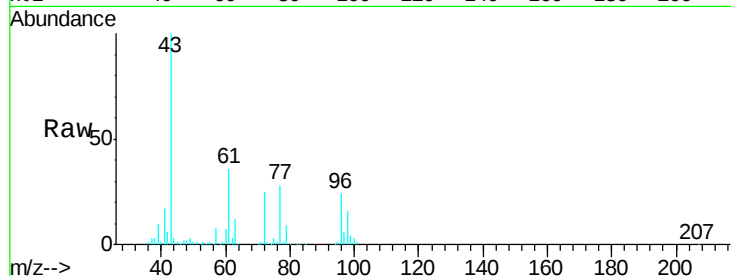
72 24.8 19.1 28.7

Manual Integrations

APPROVED

MMDadoda

11/4/2019 7:04:16 AM



#26

2,2-Dichloropropane

Concen: 47.535 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN059048.D

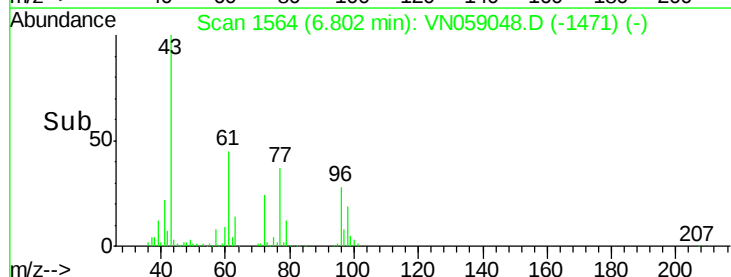
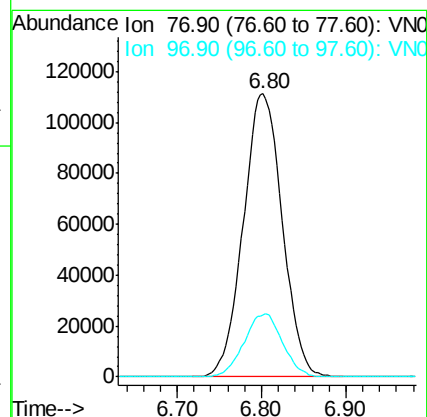
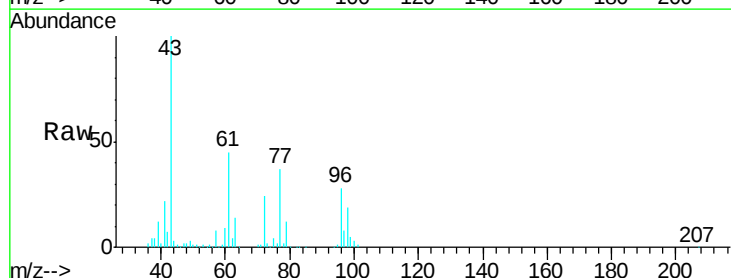
Acq: 31 Oct 2019 18:34

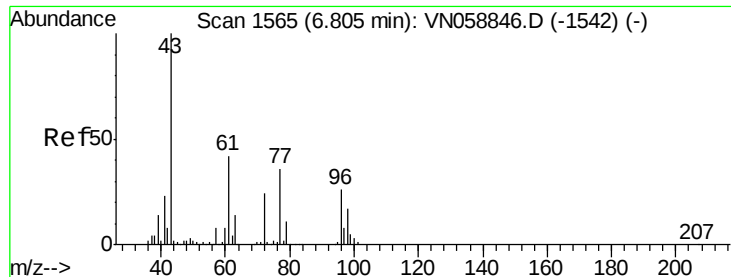
Tgt Ion: 77 Resp: 357537

Ion Ratio Lower Upper

77 100

97 22.0 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 52.256 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

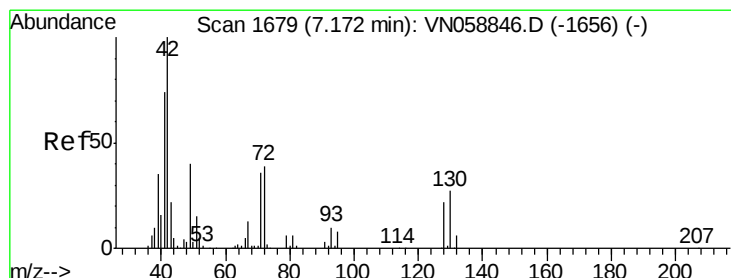
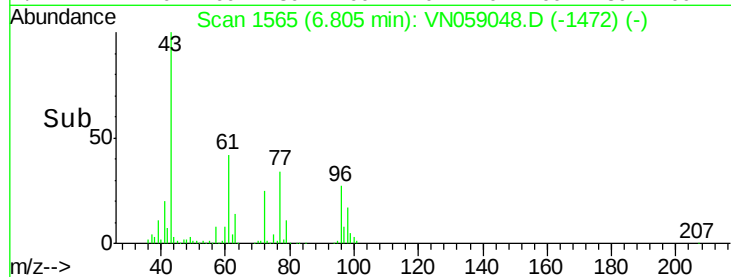
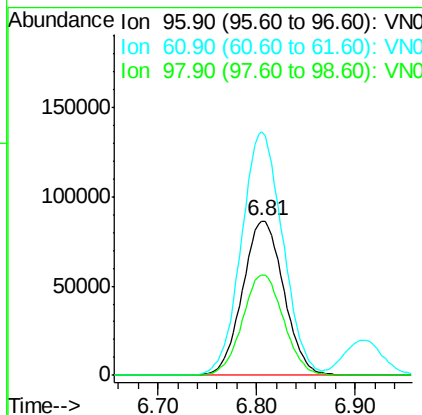
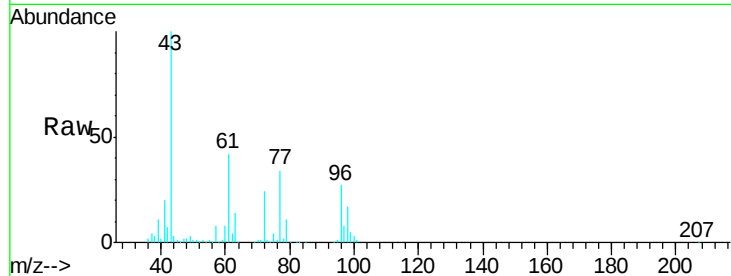
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	96	Resp:	249787
Ion	Ratio	Lower	Upper
96	100		
61	158.2	0.0	325.0
98	65.1	0.0	128.0

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#28

Bromochloromethane

Concen: 51.179 ug/l

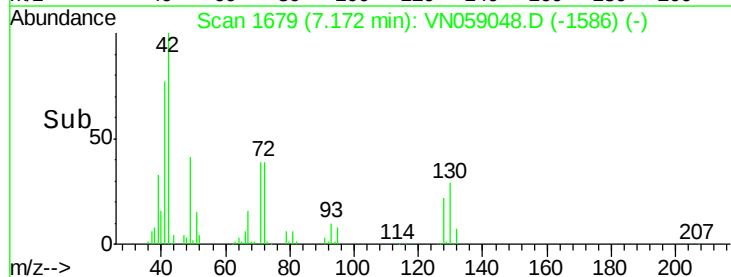
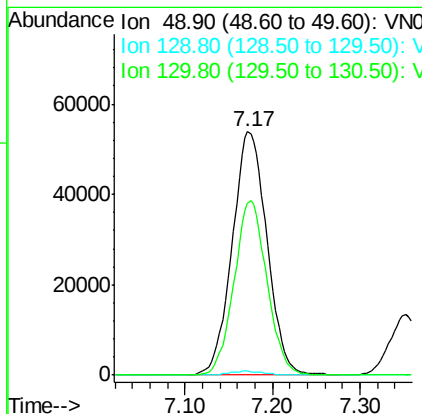
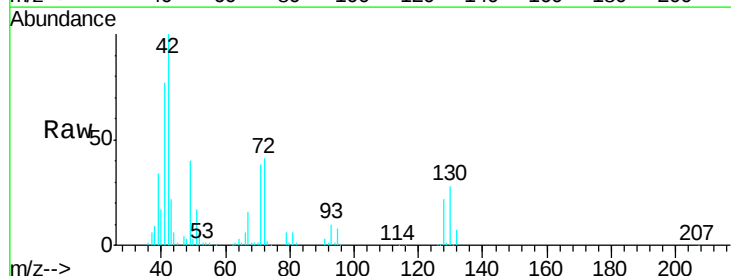
RT: 7.17 min Scan# 1679

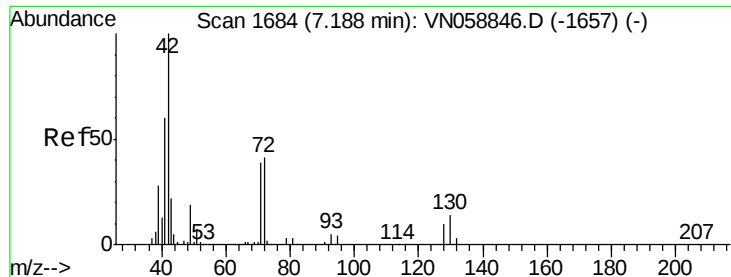
Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Tgt Ion:	49	Resp:	148215
Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.2
130	67.7	53.5	80.3





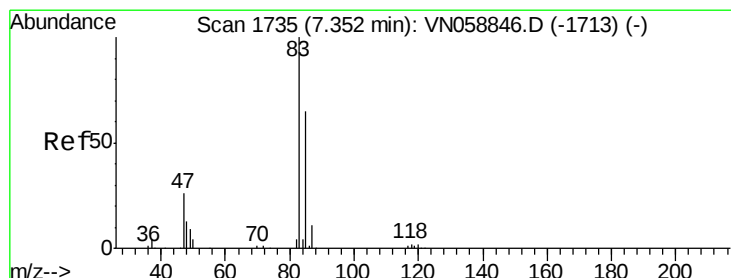
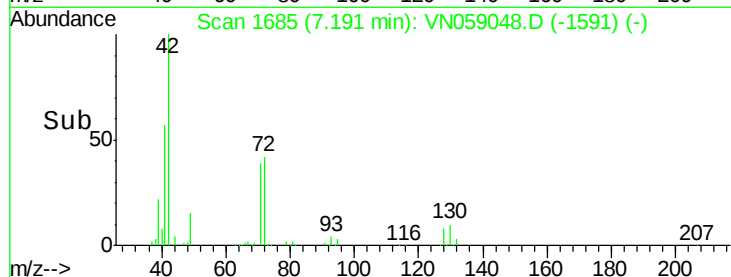
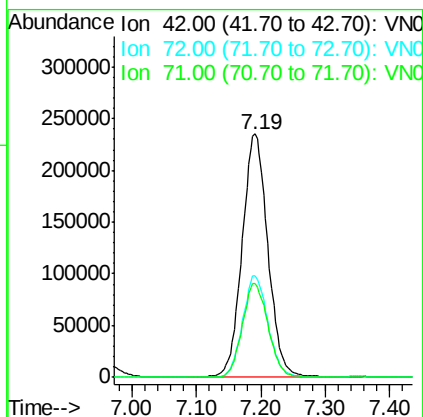
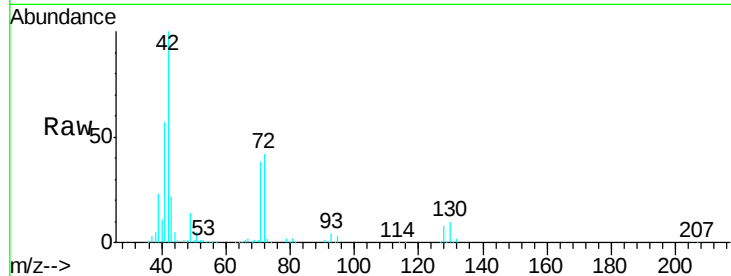
#29
Tetrahydrofuran
Concen: 293.818 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.3	32.2	48.2
71	38.6	30.6	45.8

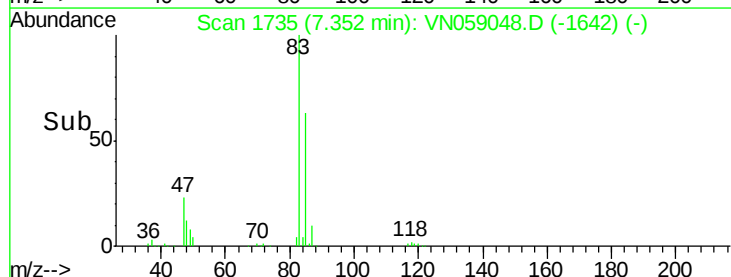
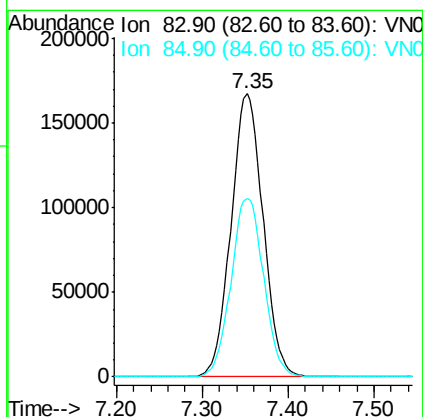
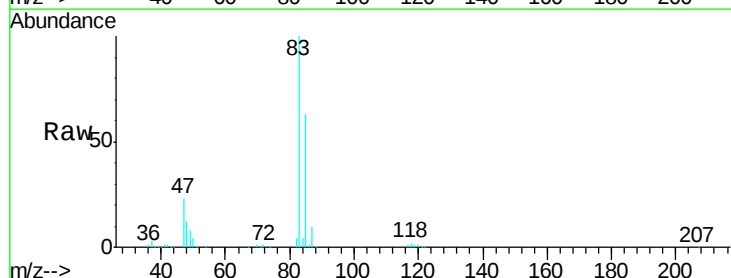
Manual Integrations
APPROVED

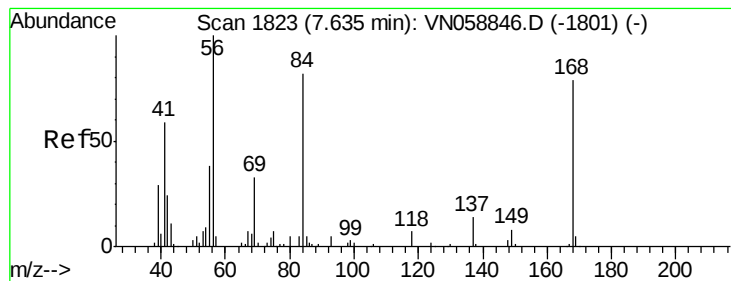
MMDadoda
11/4/2019 7:04:16 AM



#30
Chloroform
Concen: 49.583 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.9	77.9





#31

Cyclohexane

Concen: 46.264 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 374784

Ion Ratio Lower Upper

56 100

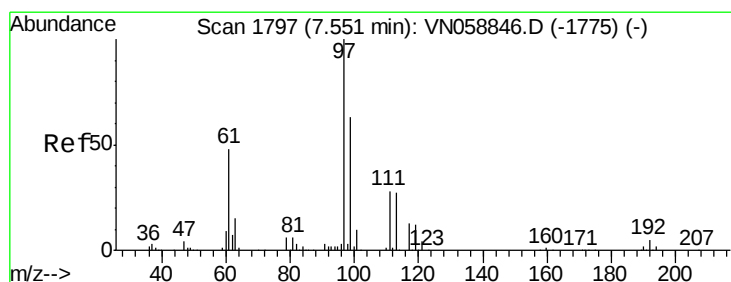
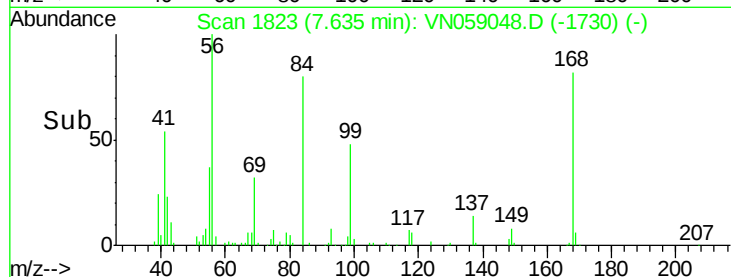
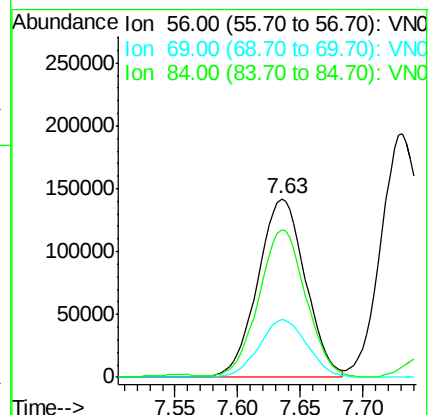
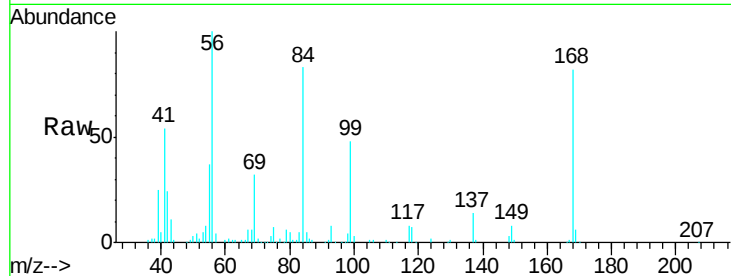
69 32.3 26.2 39.4

84 81.5 65.6 98.4

Manual Integrations
APPROVED

MMDadoda

11/4/2019 7:04:16 AM



#32

1,1,1-Trichloroethane

Concen: 50.242 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

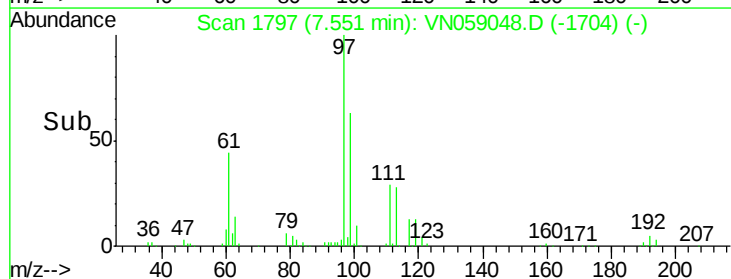
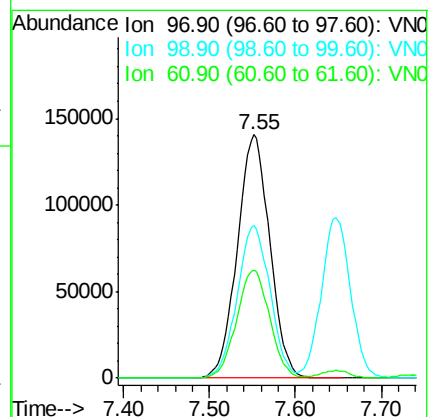
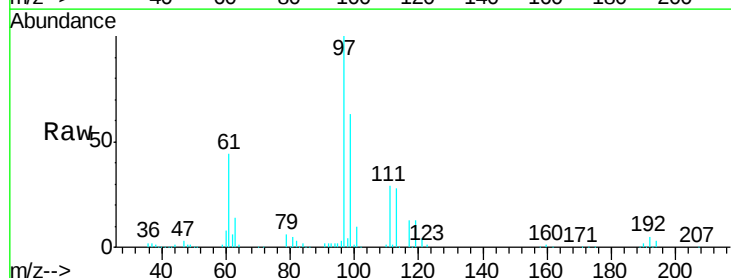
Tgt Ion: 97 Resp: 369395

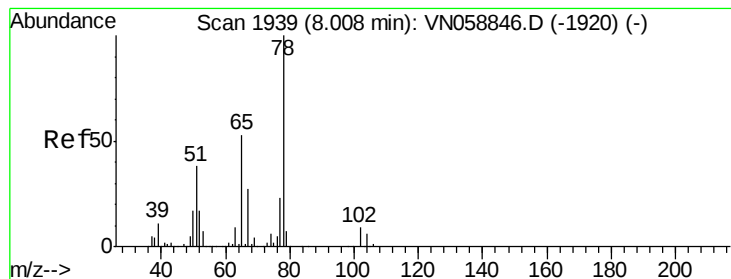
Ion Ratio Lower Upper

97 100

99 63.3 51.0 76.4

61 45.0 38.6 58.0





#33

1,2-Dichloroethane-d4

Concen: 47.815 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 65 Resp: 269537

Ion Ratio Lower Upper

65 100

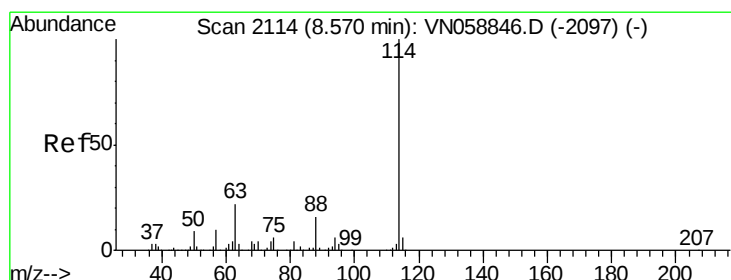
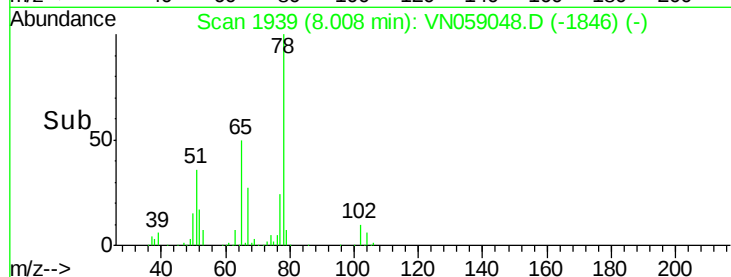
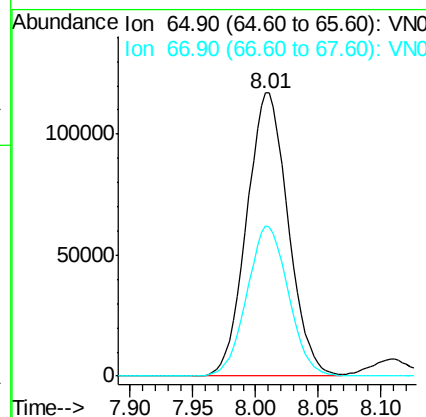
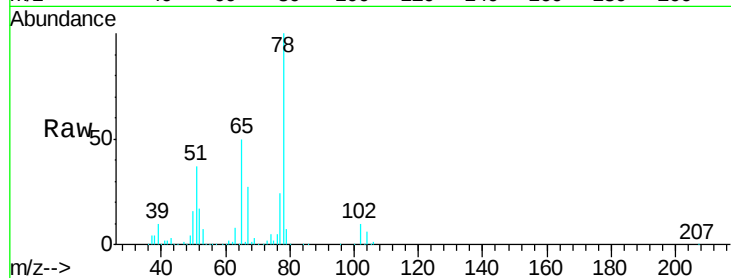
67 53.2 0.0 103.2

Manual Integrations

APPROVED

MMDadoda

11/4/2019 7:04:16 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

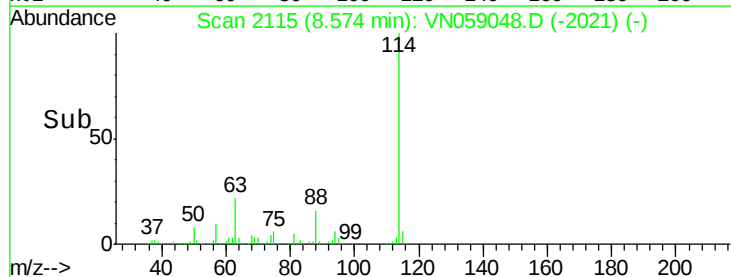
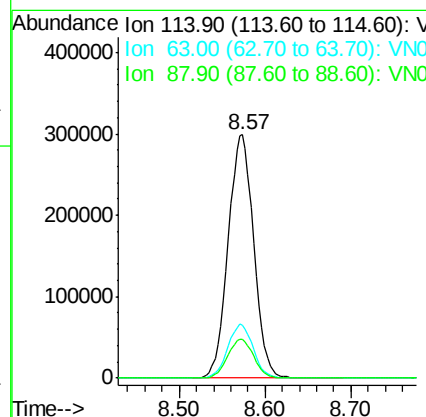
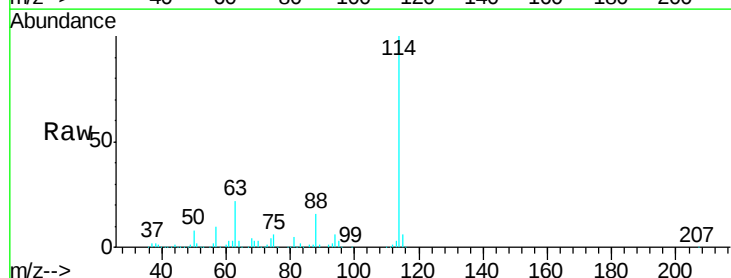
Tgt Ion: 114 Resp: 616888

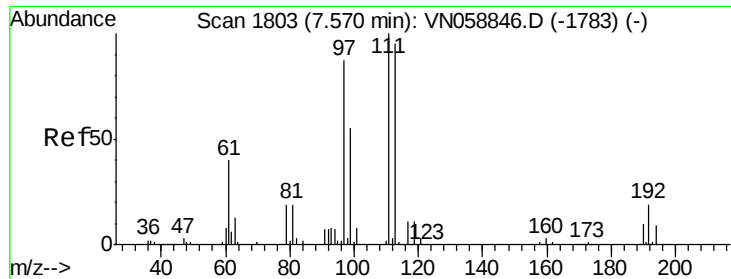
Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.4

88 15.9 0.0 31.4





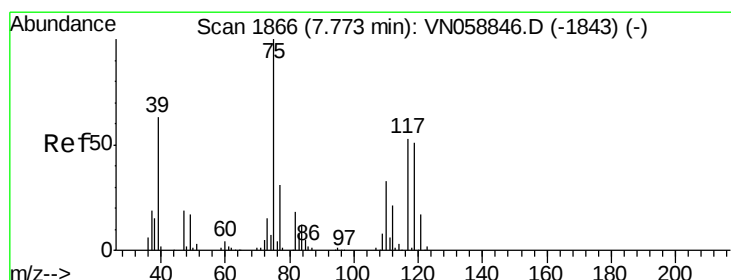
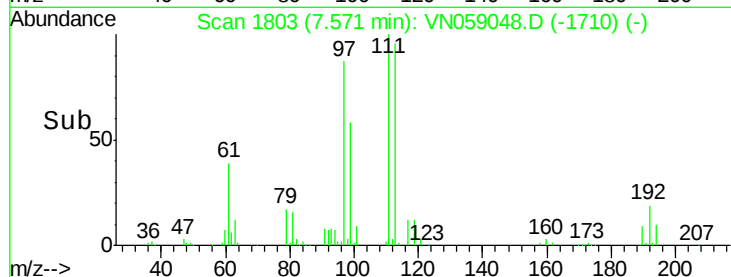
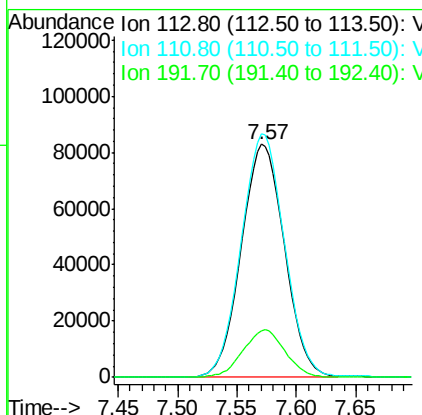
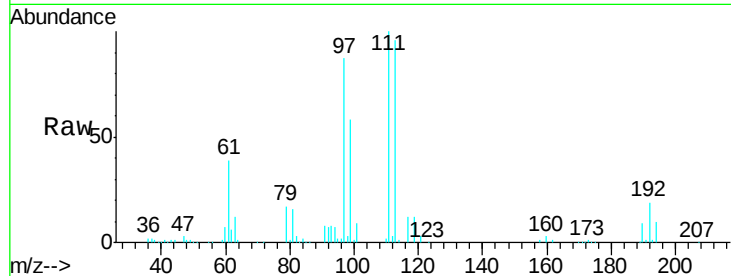
#35
Dibromofluoromethane
Concen: 51.452 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	208682		
111	104.5	82.0	123.0	
192	20.0	15.0	22.6	

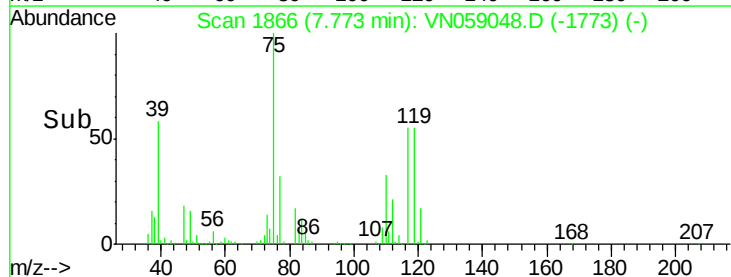
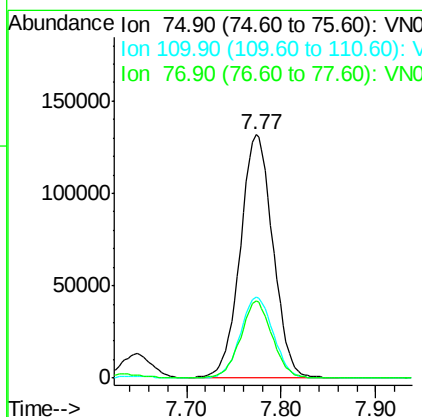
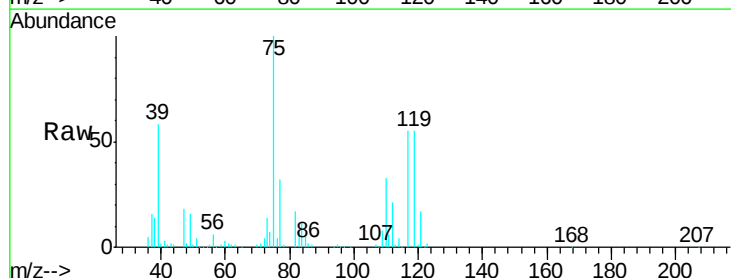
Manual Integrations
APPROVED

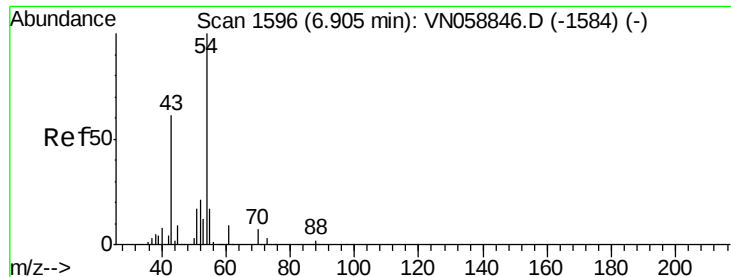
MMDadoda
11/4/2019 7:04:16 AM



#36
1,1-Dichloropropene
Concen: 49.982 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	315668		
110	33.6	16.3	48.9	
77	30.9	24.6	36.8	





#37

Ethyl Acetate

Concen: 56.562 ug/l

RT: 6.91 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

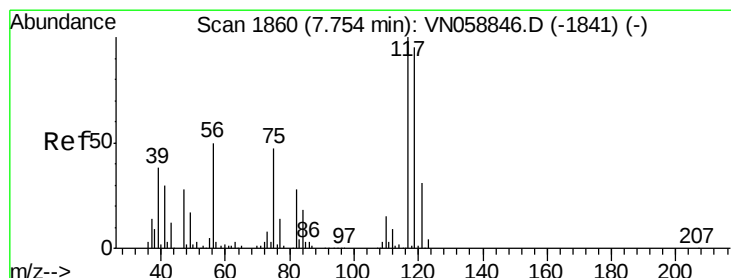
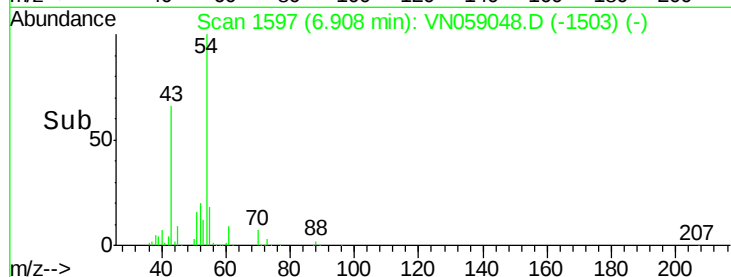
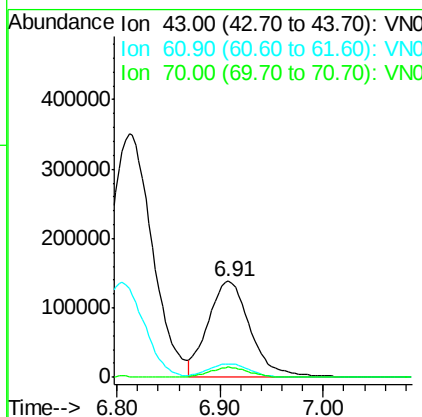
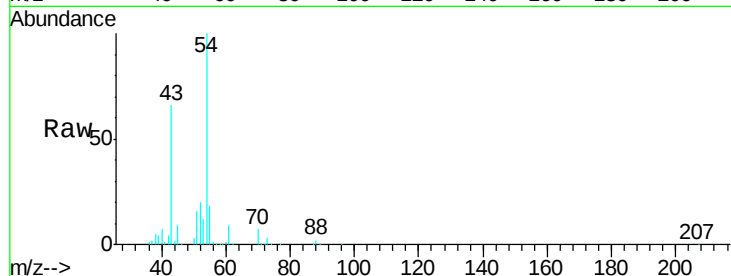
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	43	Resp:	389239
Ion Ratio	Lower	Upper	
43	100		
61	14.1	10.5	15.7
70	9.7	7.6	11.4

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#38

Carbon Tetrachloride

Concen: 48.871 ug/l

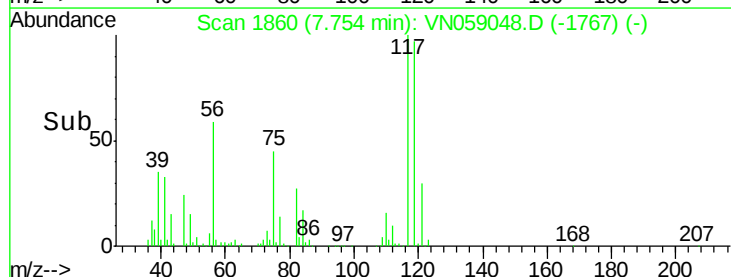
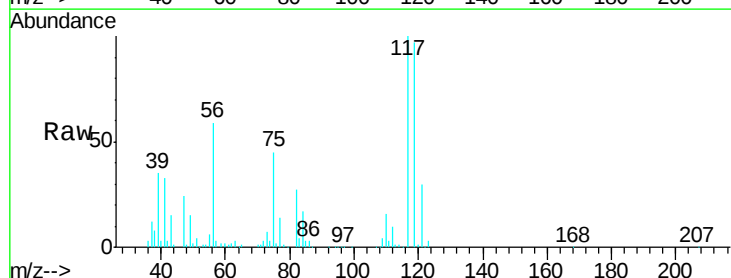
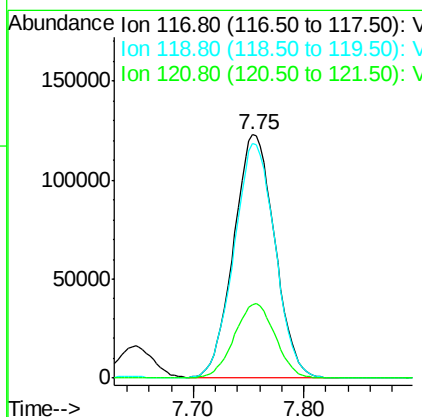
RT: 7.75 min Scan# 1860

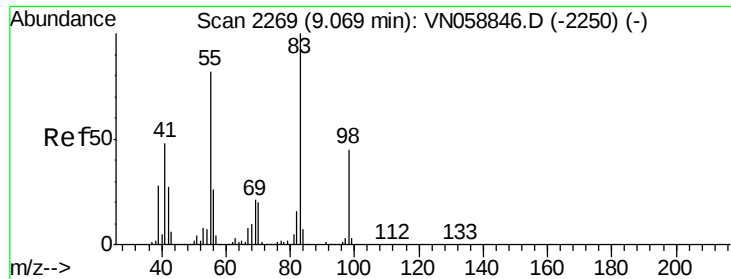
Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Tgt Ion:	117	Resp:	317969
Ion Ratio	Lower	Upper	
117	100		
119	96.4	75.7	113.5
121	30.4	25.0	37.6





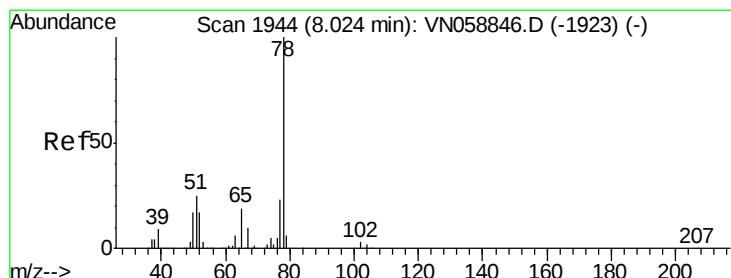
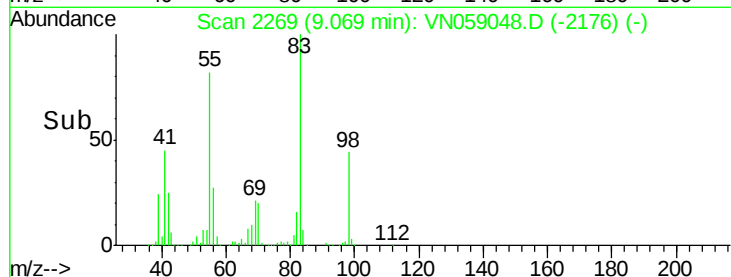
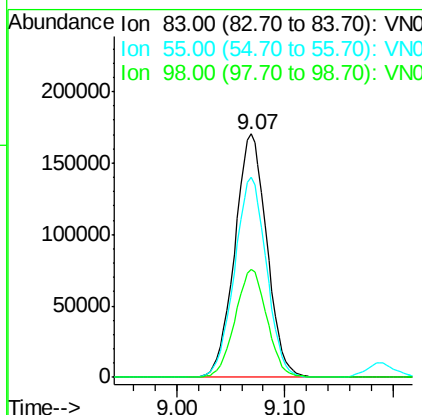
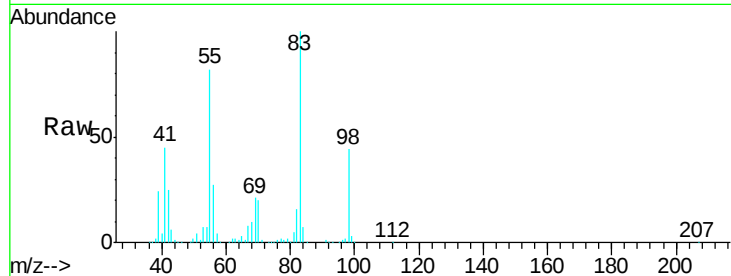
#39
Methylcyclohexane
Concen: 49.729 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
83	100		
55	82.4	65.5	98.3
98	44.2	35.7	53.5

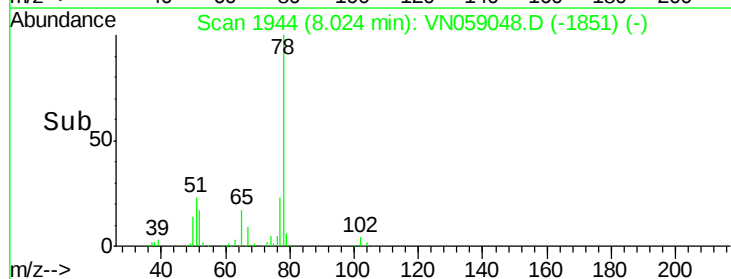
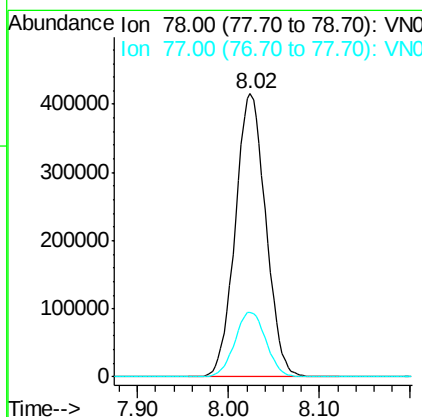
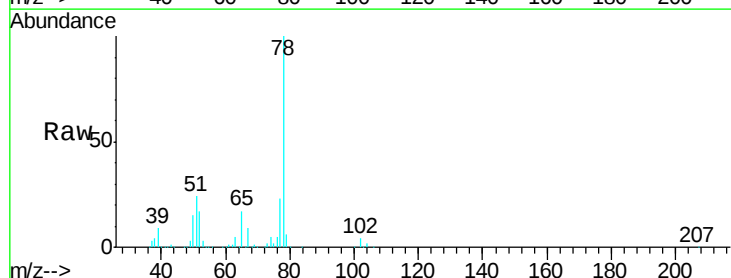
Manual Integrations
APPROVED

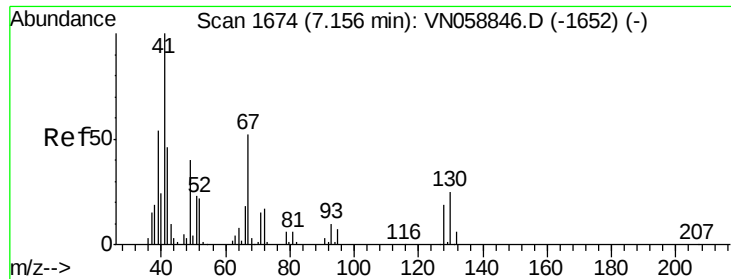
MMDadoda
11/4/2019 7:04:16 AM



#40
Benzene
Concen: 52.132 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.2	27.2





#41

Methacrylonitrile

Concen: 51.717 ug/l

RT: 7.15 min Scan# 1672

Delta R.T. -0.01 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 41 Resp: 158509
Ion Ratio Lower Upper

41 100

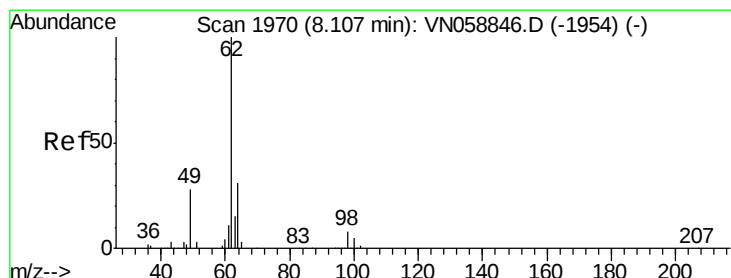
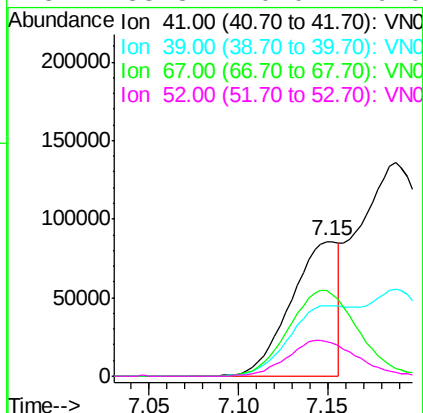
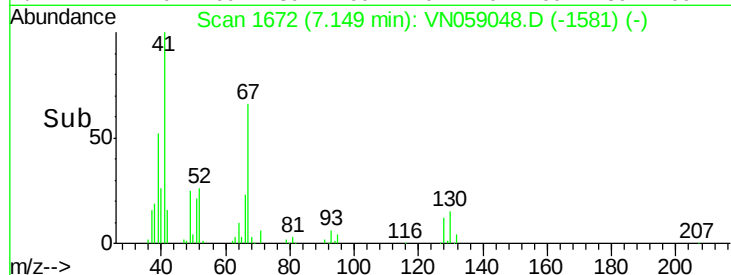
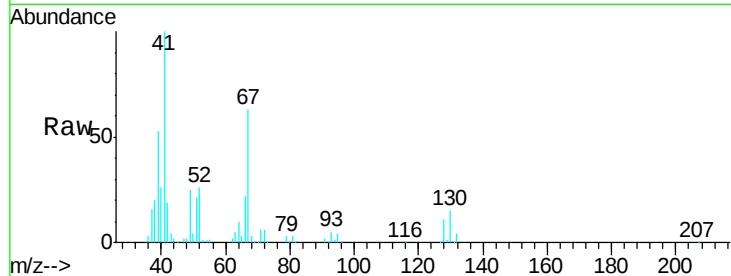
39 69.7 0.0 0.0#

67 93.4 0.0 0.0#

52 38.3 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#42

1,2-Dichloroethane

Concen: 48.665 ug/l

RT: 8.11 min Scan# 1970

Delta R.T. 0.00 min

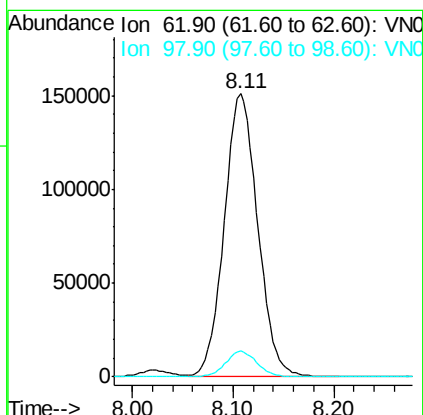
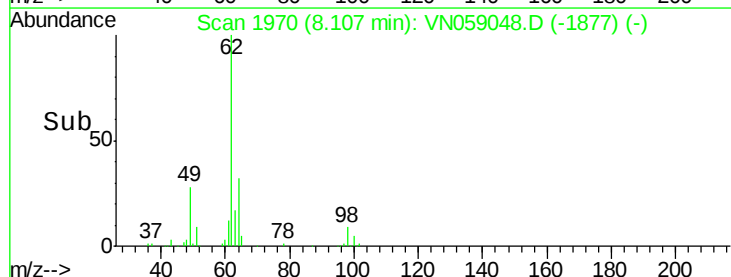
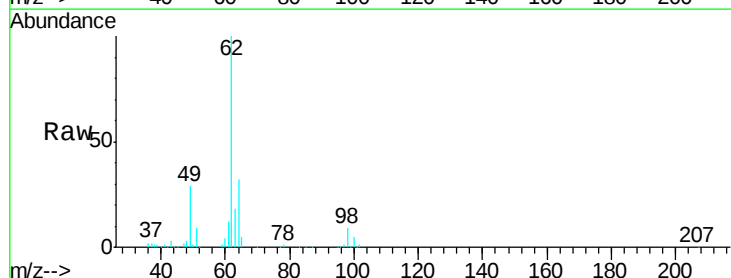
Lab File: VN059048.D

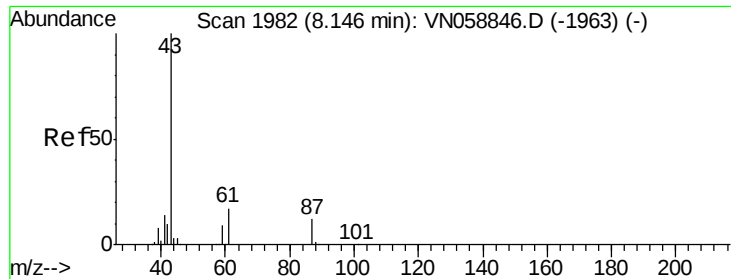
Acq: 31 Oct 2019 18:34

Tgt Ion: 62 Resp: 347662
Ion Ratio Lower Upper

62 100

98 8.6 0.0 16.2





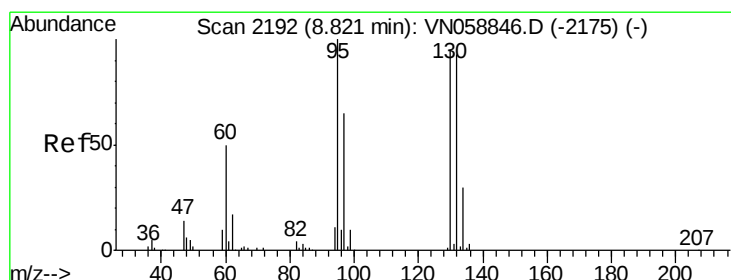
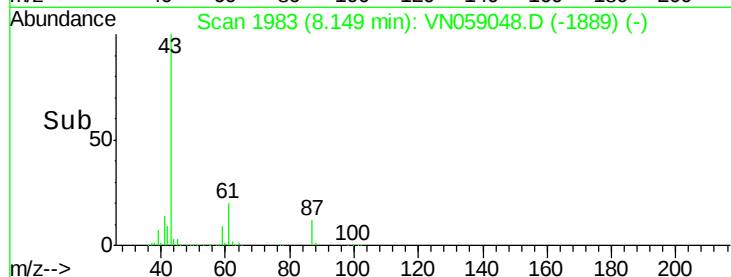
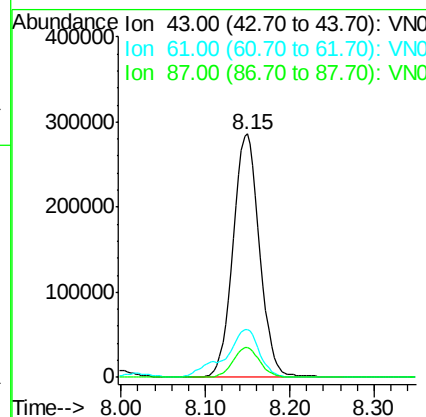
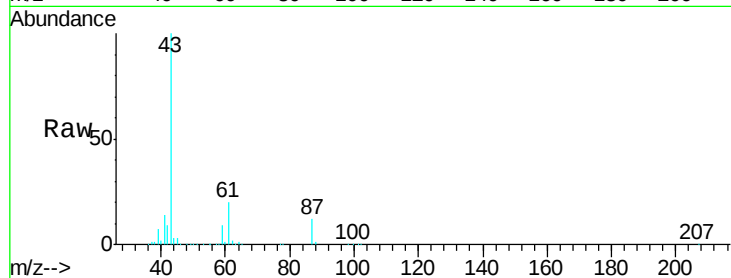
#43
Isopropyl Acetate
Concen: 56.339 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
43	100		
61	25.5	20.2	30.2
87	12.2	9.5	14.3

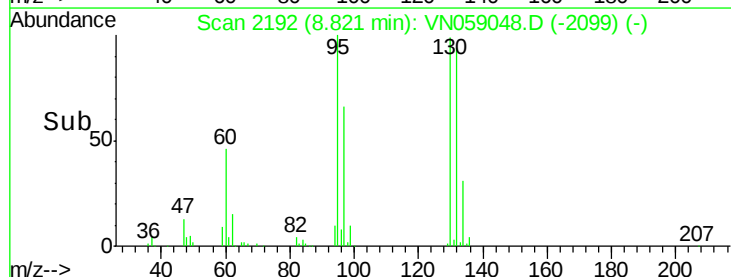
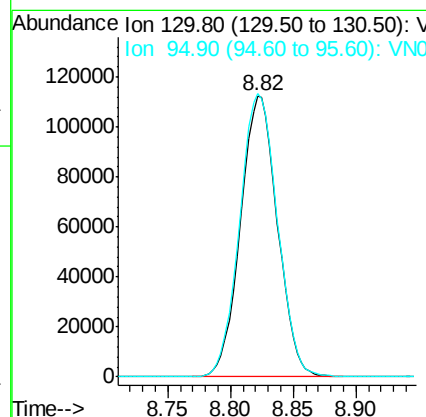
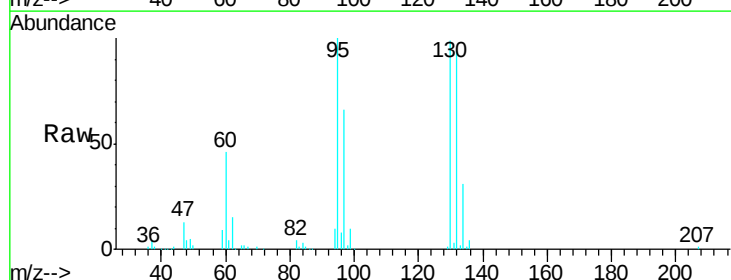
Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#44
Trichloroethene
Concen: 50.941 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	209.6





#45

1,2-Dichloropropane

Concen: 52.876 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 63 Resp: 268902

Ion Ratio Lower Upper

63 100

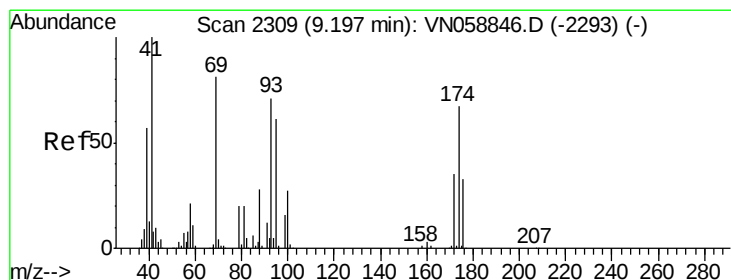
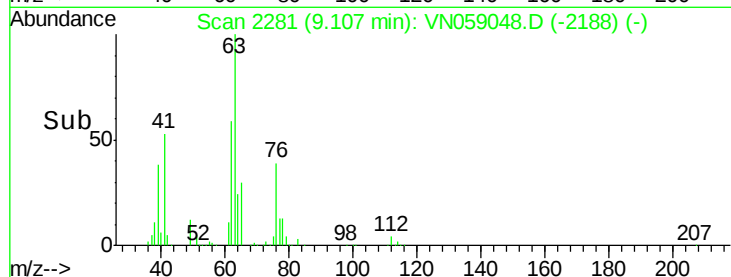
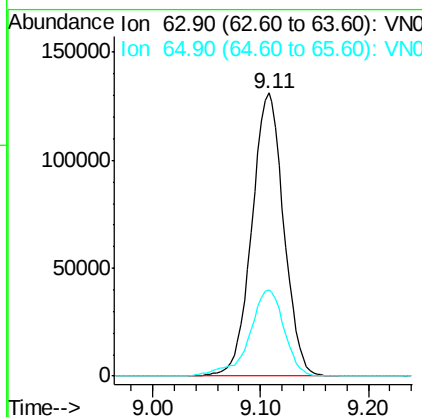
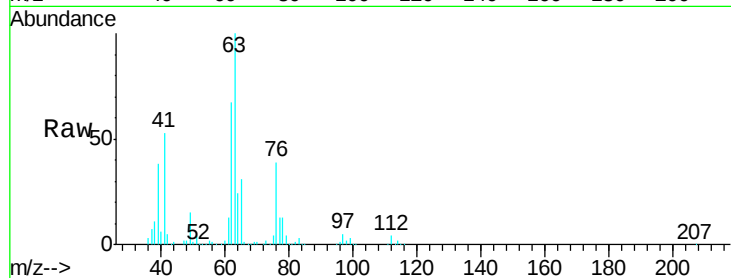
65 30.5 24.5 36.7

Manual Integrations

APPROVED

MMDadoda

11/4/2019 7:04:16 AM



#46

Dibromomethane

Concen: 51.944 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

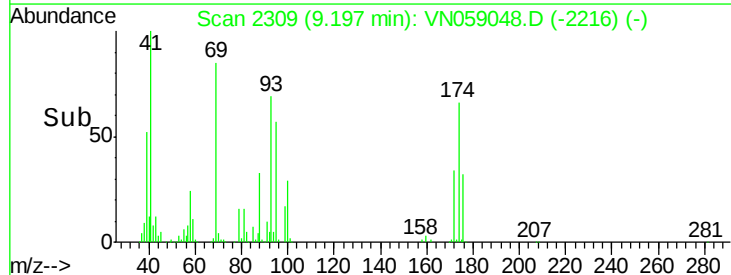
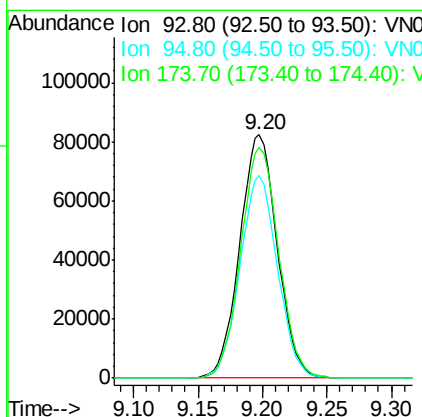
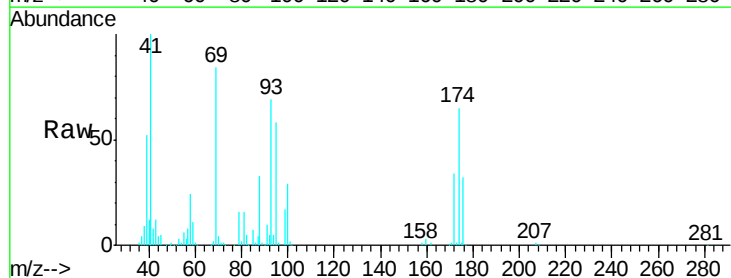
Tgt Ion: 93 Resp: 166999

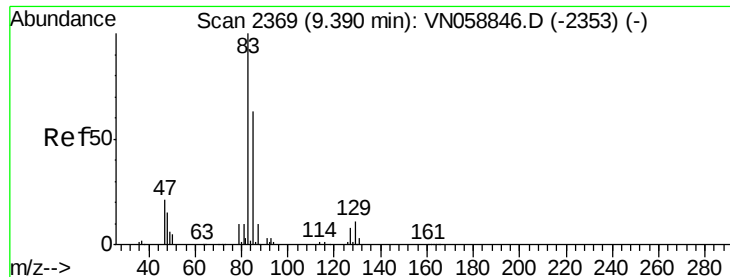
Ion Ratio Lower Upper

93 100

95 83.2 67.6 101.4

174 96.0 74.1 111.1





#47

Bromodichloromethane

Concen: 52.500 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

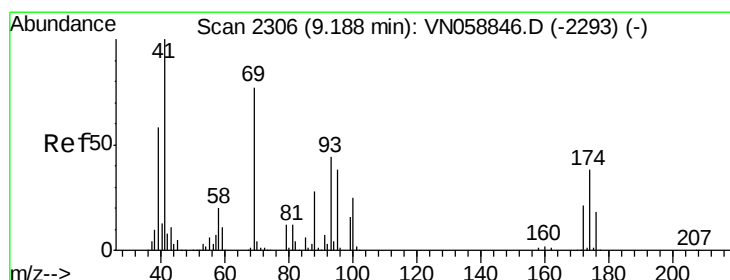
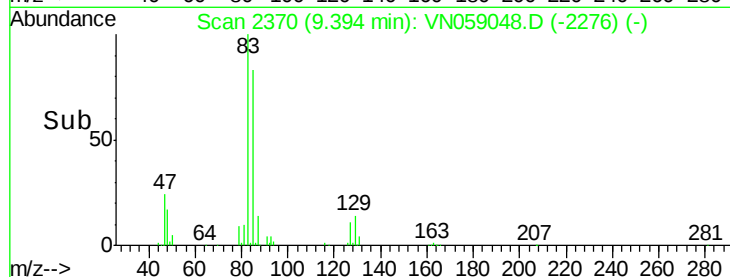
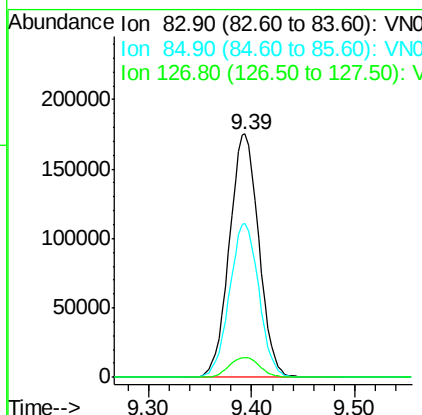
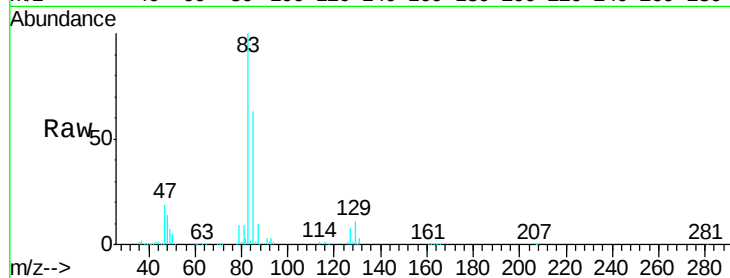
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	83	Resp:	347878
Ion Ratio	Lower	Upper	
83	100		
85	63.1	50.6	75.8
127	8.1	6.5	9.7

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#48

Methyl methacrylate

Concen: 56.216 ug/l

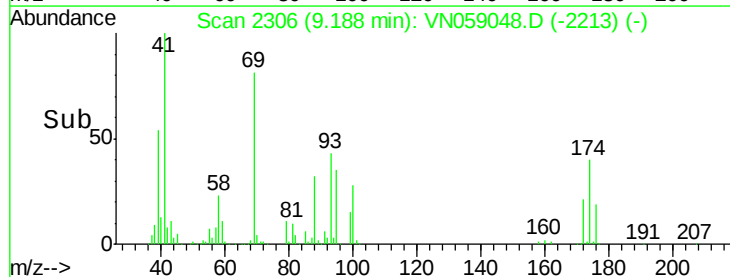
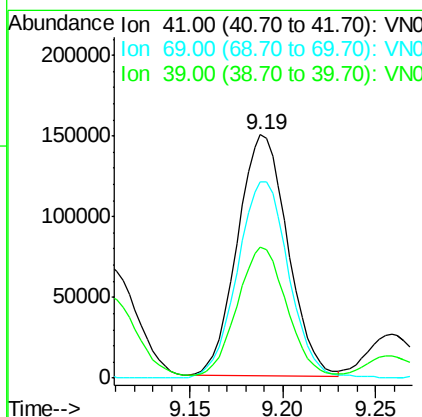
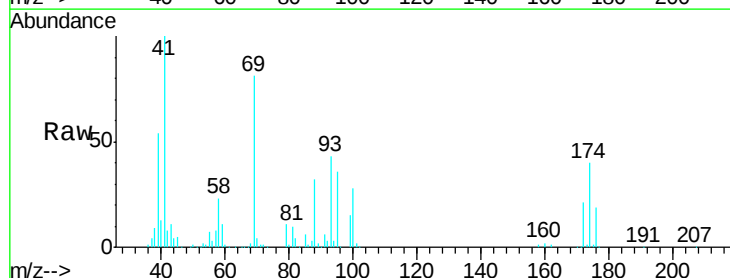
RT: 9.19 min Scan# 2306

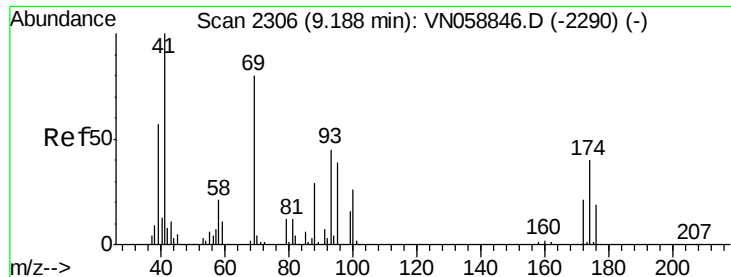
Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Tgt Ion:	41	Resp:	281492
Ion Ratio	Lower	Upper	
41	100		
69	83.9	63.8	95.6
39	54.2	47.8	71.8





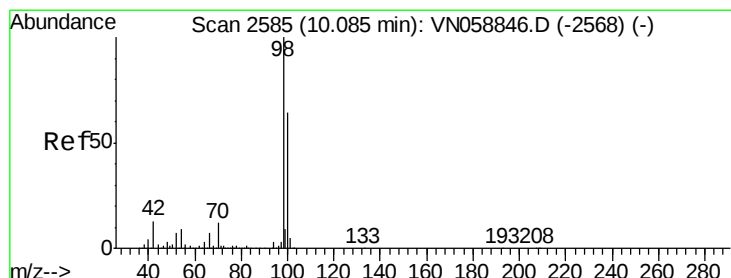
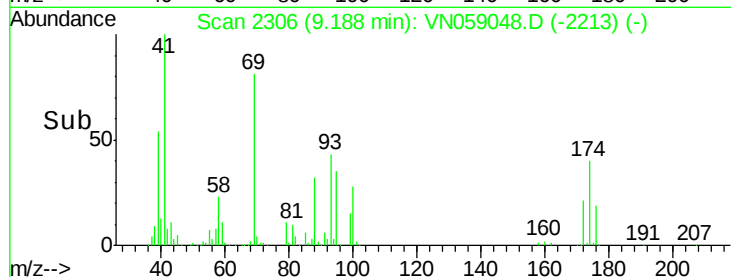
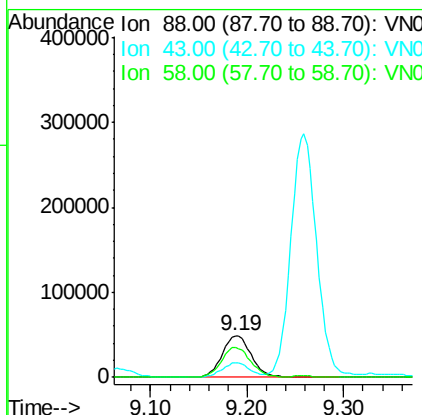
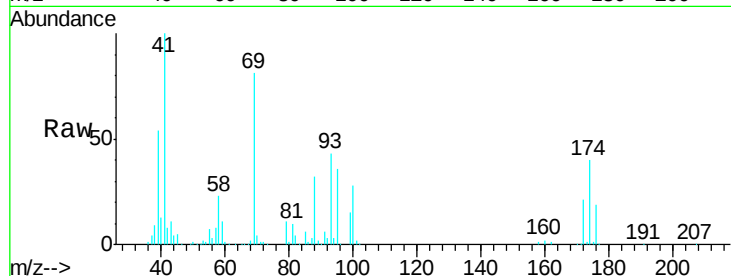
#49
1,4-Dioxane
Concen: 1244.645 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	102309		
43	32.5	29.1	43.7	
58	72.2	59.4	89.0	

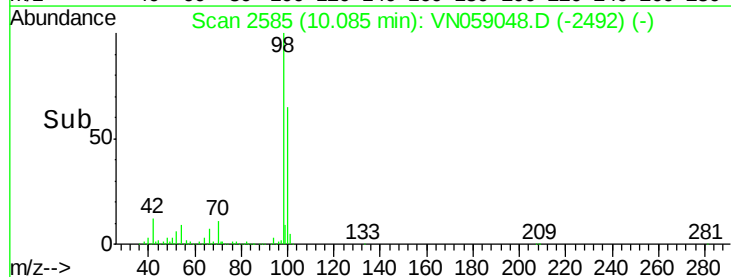
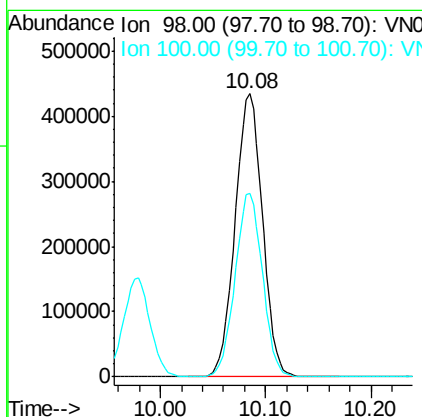
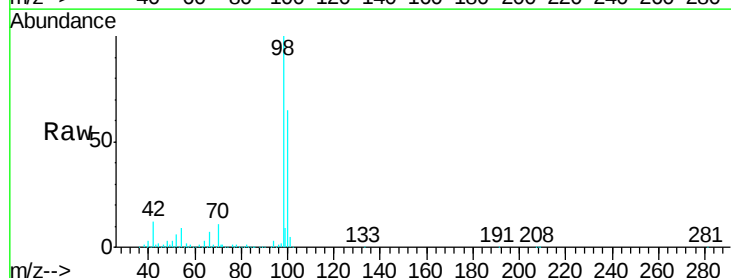
Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#50
Toluene-d8
Concen: 49.744 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	783184		
100	64.5	51.4	77.2	





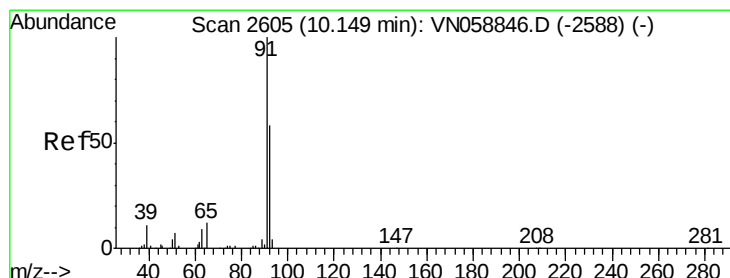
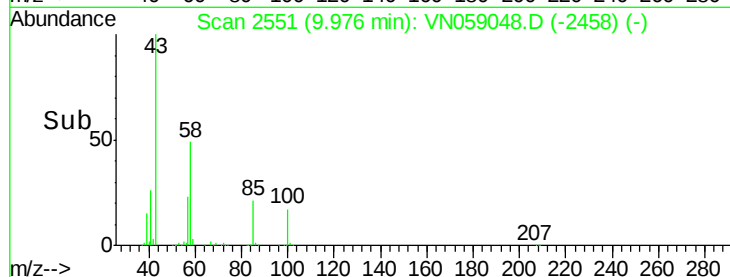
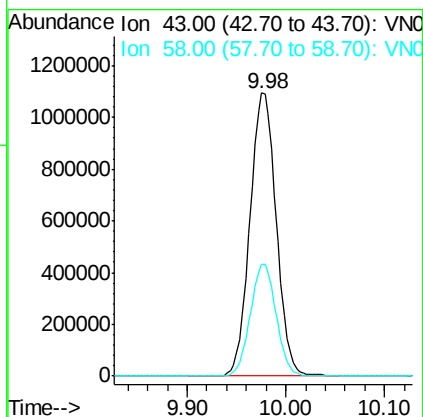
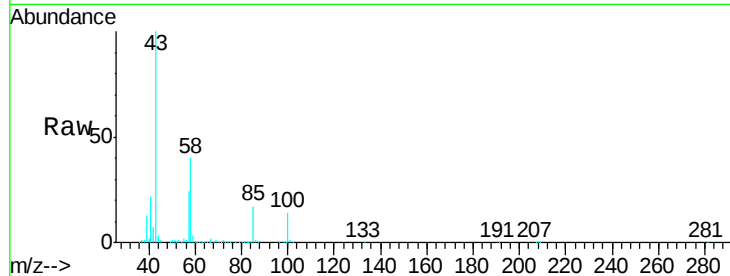
#51
 4-Methyl-2-Pentanone
 Concen: 310.807 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 43 Resp: 2003598
 Ion Ratio Lower Upper
 43 100
 58 39.1 29.9 44.9

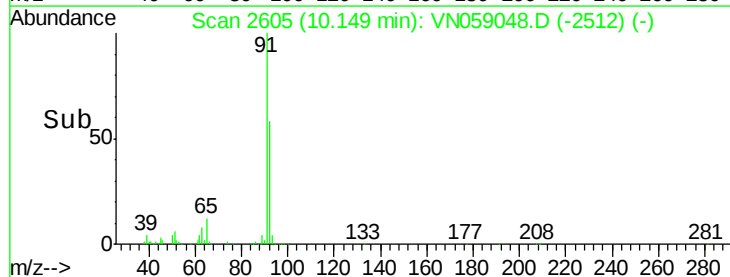
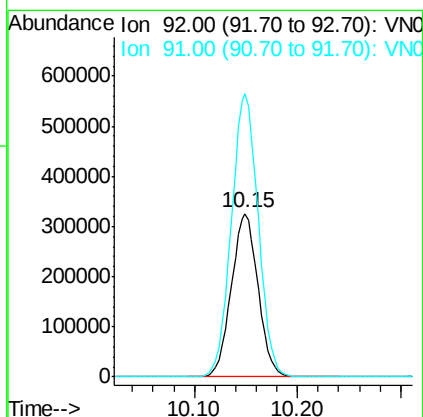
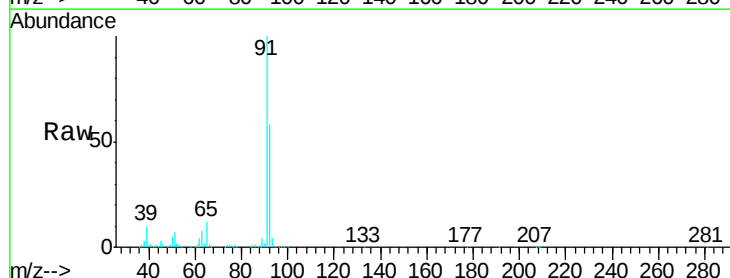
Manual Integrations
 APPROVED

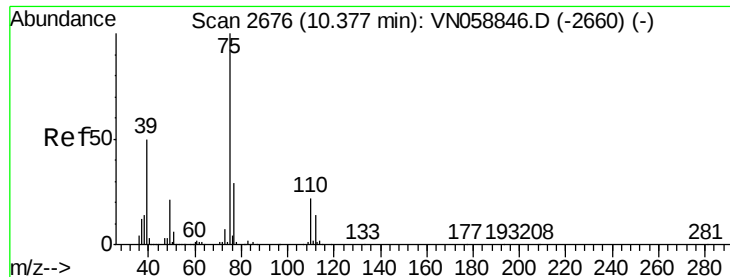
MMDadoda
 11/4/2019 7:04:16 AM



#52
 Toluene
 Concen: 53.395 ug/l
 RT: 10.15 min Scan# 2605
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Tgt Ion: 92 Resp: 587240
 Ion Ratio Lower Upper
 92 100
 91 174.5 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 53.556 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 75 Resp: 392851

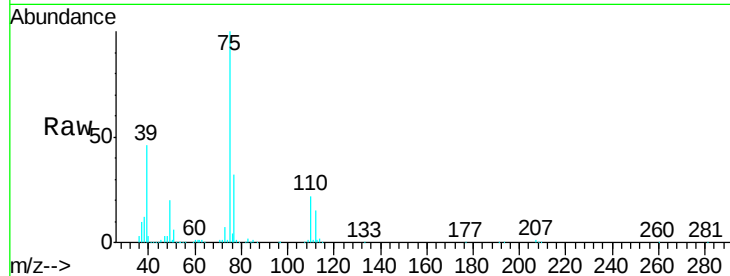
Ion Ratio Lower Upper

75 100

77 31.9 25.7 38.5

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

250000

200000

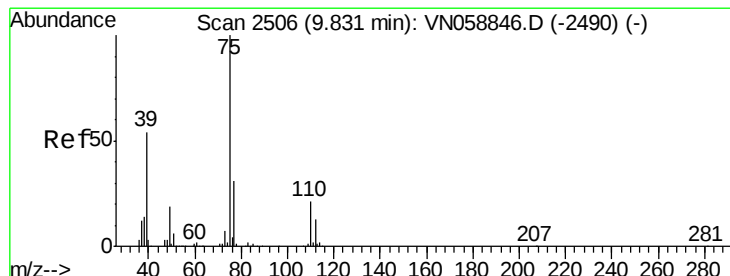
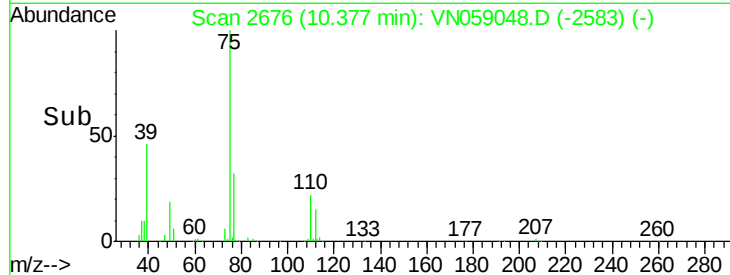
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 53.850 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

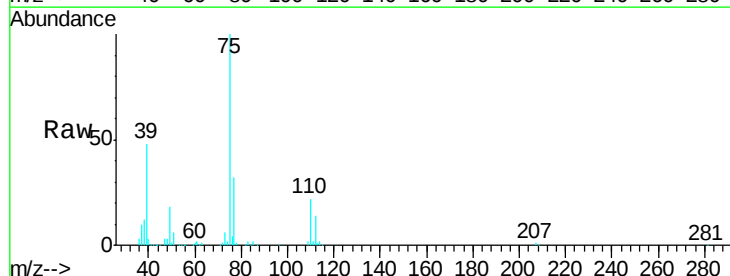
Tgt Ion: 75 Resp: 422014

Ion Ratio Lower Upper

75 100

77 31.5 24.7 37.1

39 47.7 43.5 65.3



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.83

300000

250000

200000

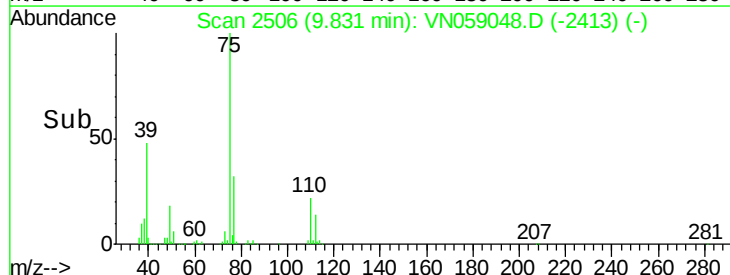
150000

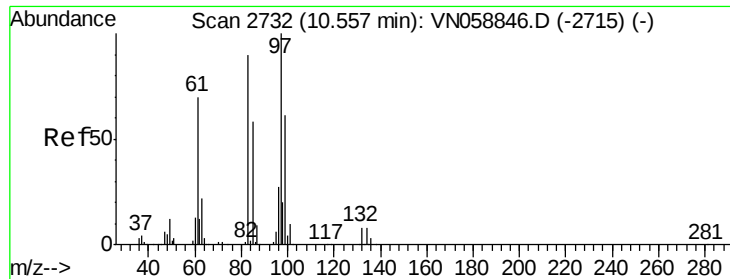
100000

50000

0

Time-->





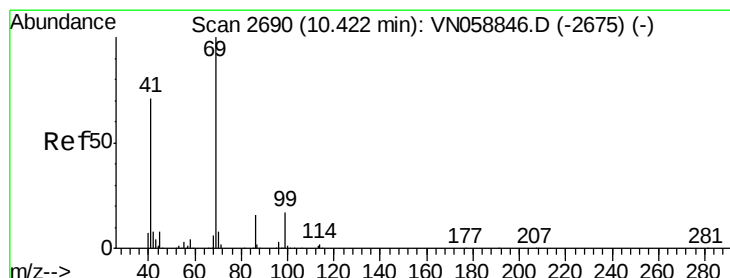
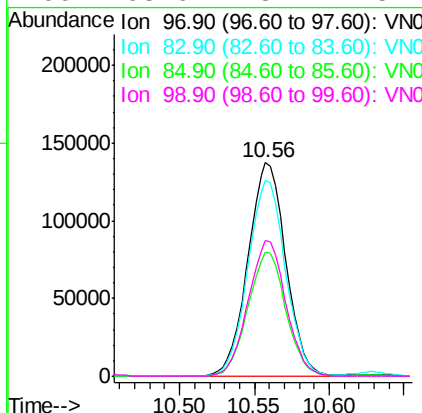
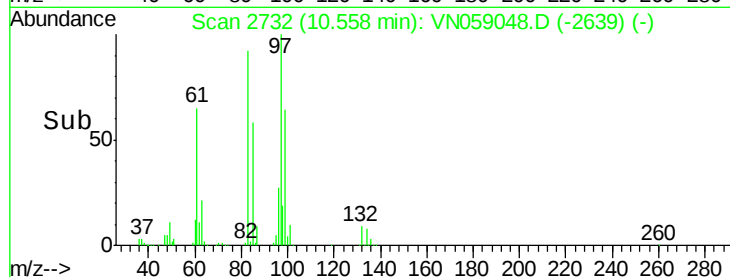
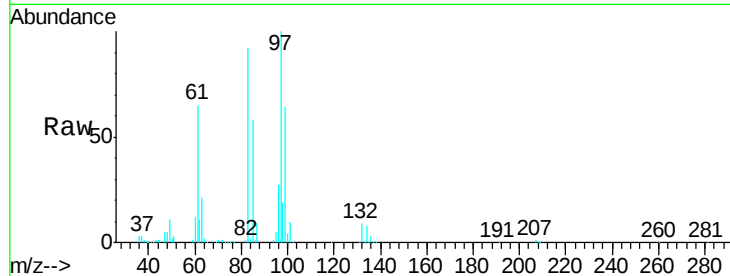
#55
 1,1,2-Trichloroethane
 Concen: 53.462 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
97	100		
83	91.8	72.2	108.4
85	58.2	46.2	69.2
99	63.6	48.7	73.1

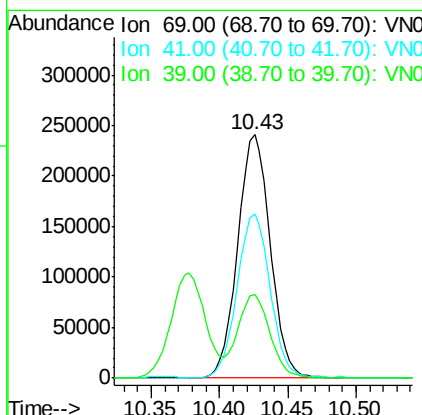
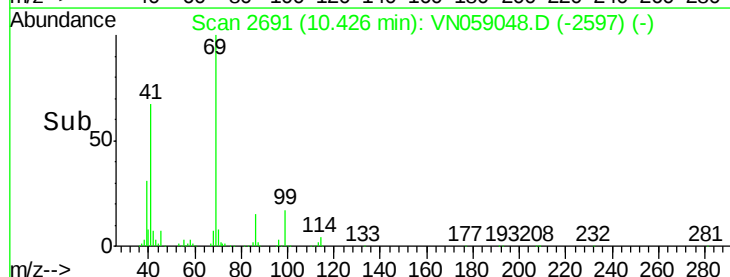
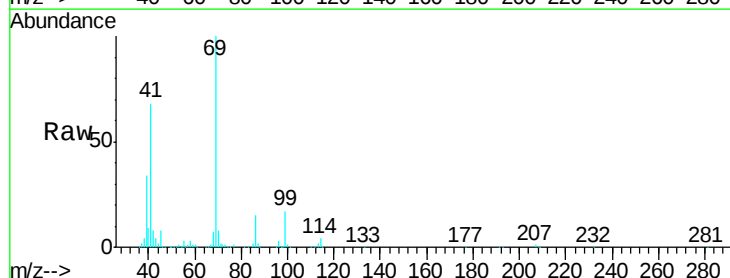
Manual Integrations
 APPROVED

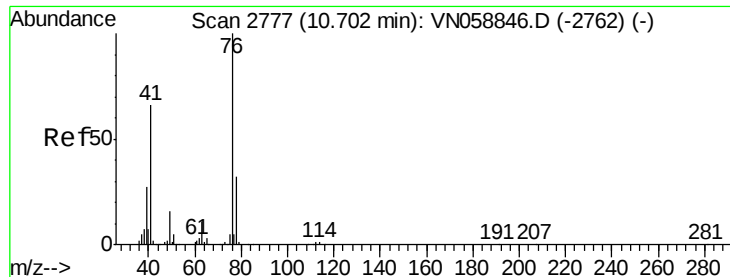
MMDadoda
 11/4/2019 7:04:16 AM



#56
 Ethyl methacrylate
 Concen: 52.565 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
69	100		
41	67.7	57.2	85.8
39	33.2	31.0	46.4





#57

1,3-Dichloropropane

Concen: 53.800 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 427803

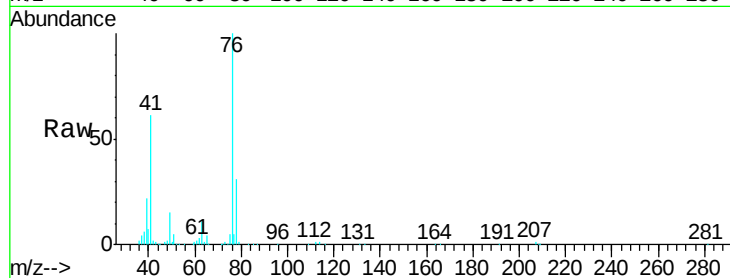
Ion Ratio Lower Upper

76 100

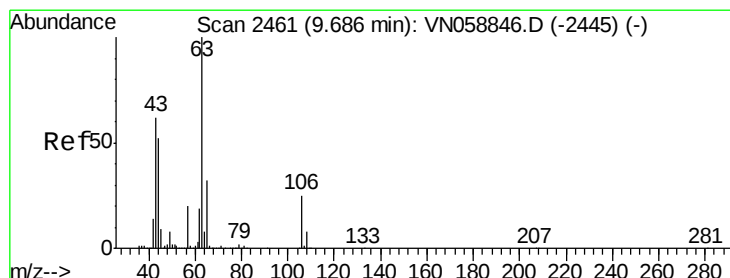
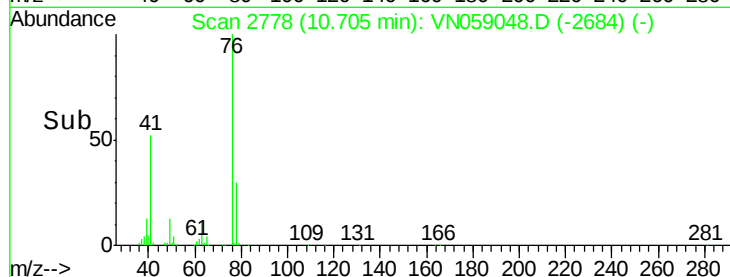
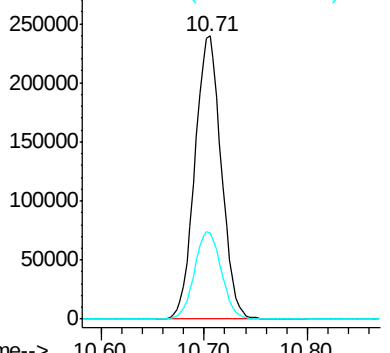
78 31.4 25.4 38.0

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



Abundance Ion 75.90 (75.60 to 76.60): VN058846.D (-2762) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 258.796 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059048.D

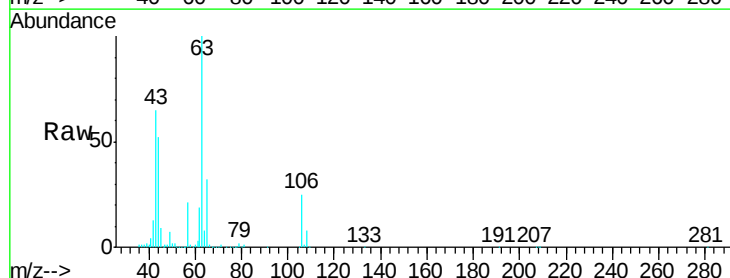
Acq: 31 Oct 2019 18:34

Tgt Ion: 63 Resp: 832348

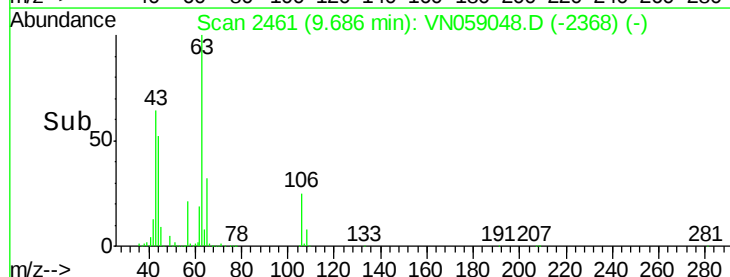
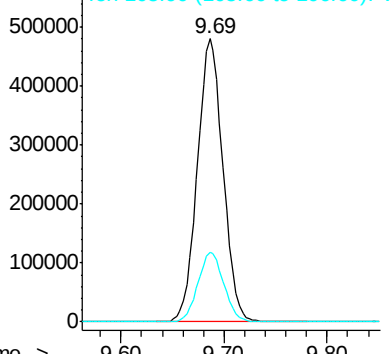
Ion Ratio Lower Upper

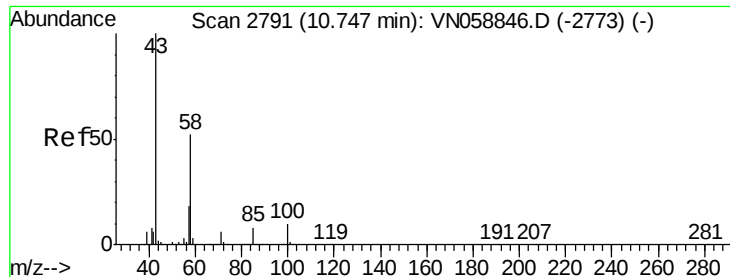
63 100

106 24.8 19.8 29.8



Abundance Ion 62.90 (62.60 to 63.60): VN058846.D (-2445) (-)





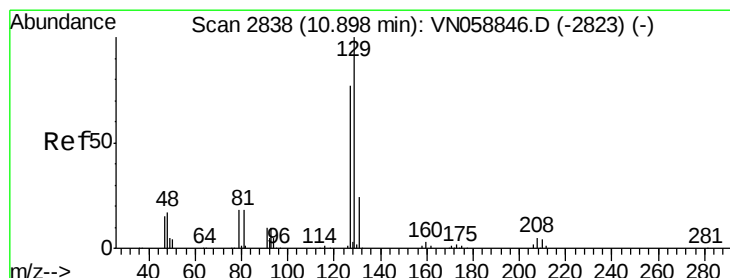
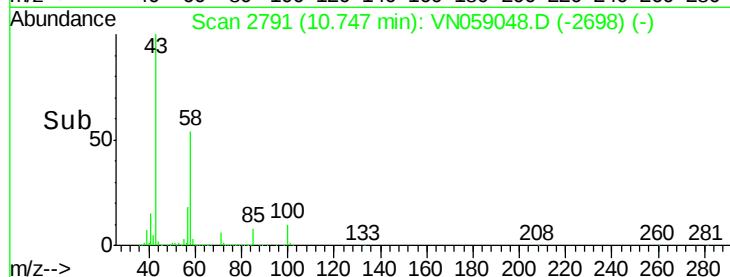
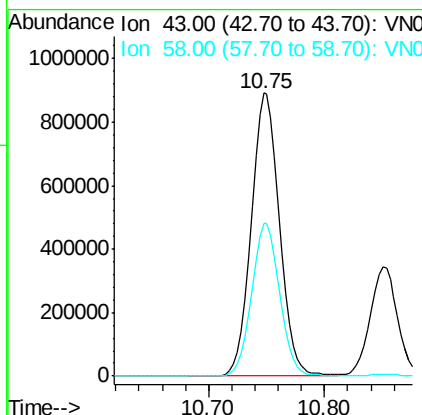
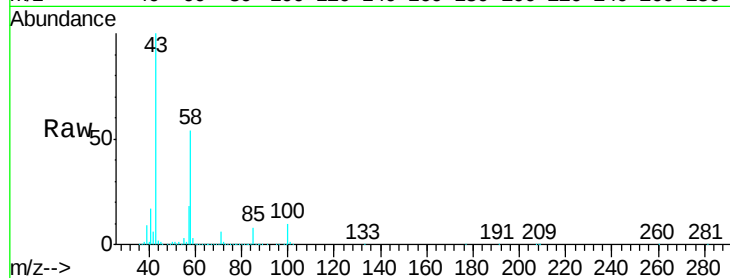
#59
2-Hexanone
Concen: 303.575 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1512221
Ion Ratio Lower Upper
43 100
58 54.0 25.9 77.7

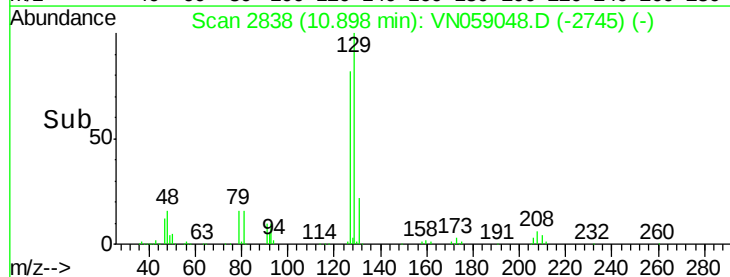
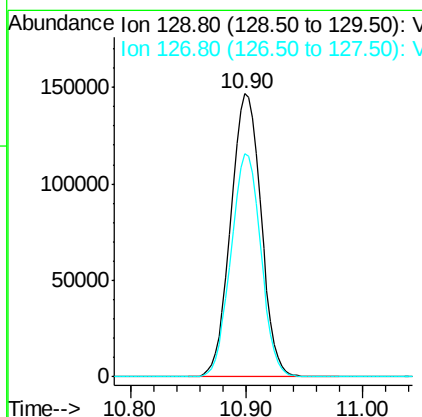
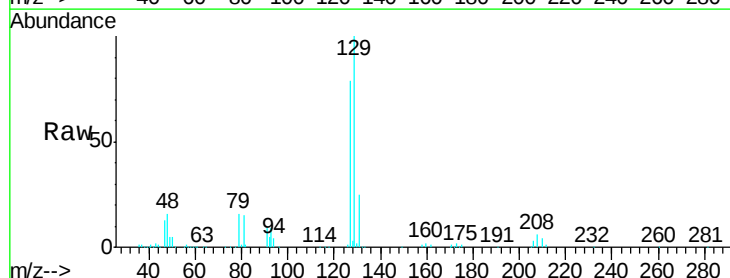
Manual Integrations
APPROVED

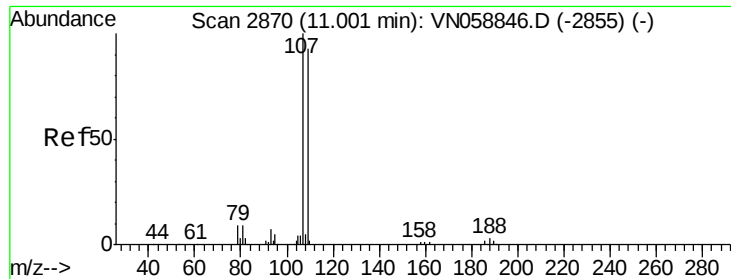
MMDadoda
11/4/2019 7:04:16 AM



#60
Dibromochloromethane
Concen: 54.439 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion: 129 Resp: 265476
Ion Ratio Lower Upper
129 100
127 77.8 39.1 117.3





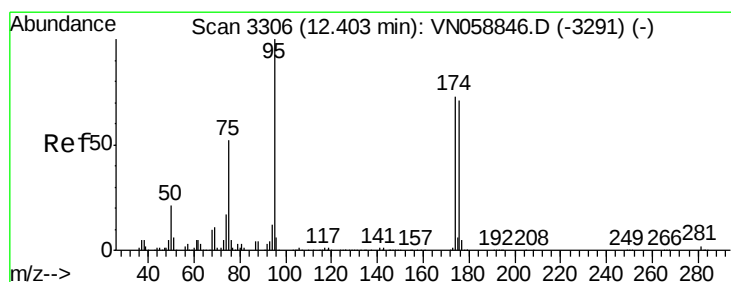
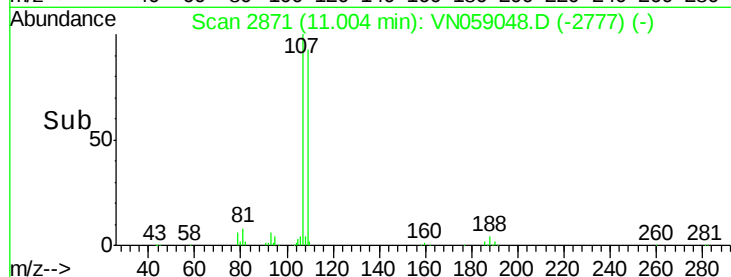
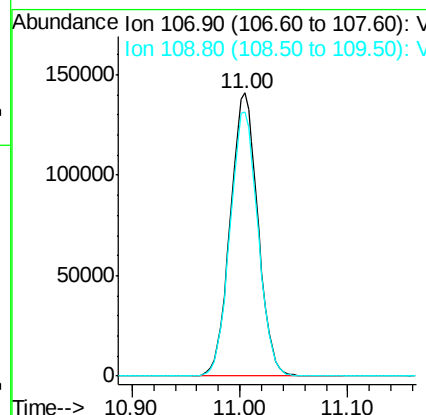
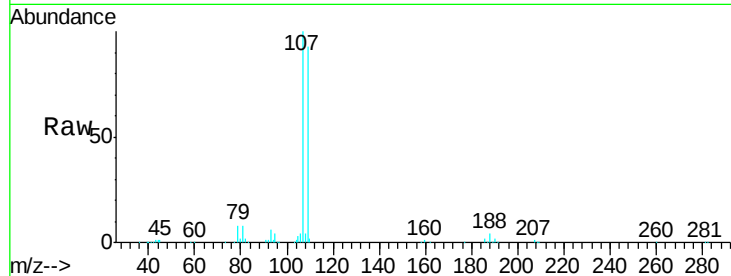
#61
 1,2-Dibromoethane
 Concen: 54.211 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.2	112.8

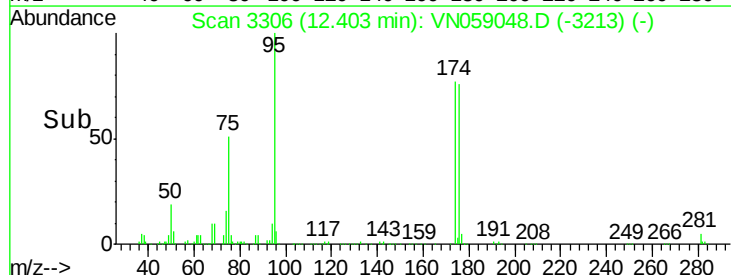
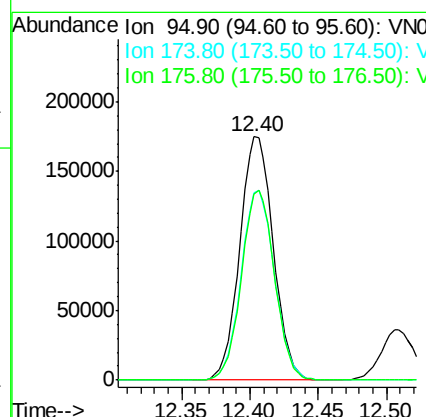
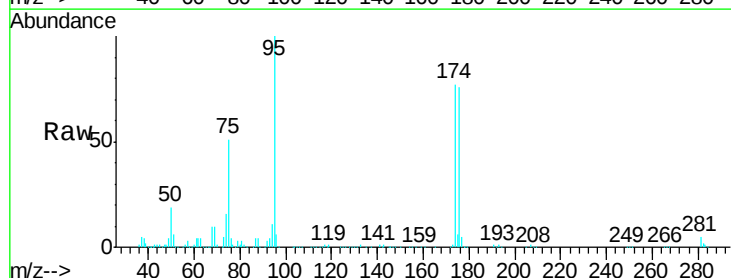
Manual Integrations
 APPROVED

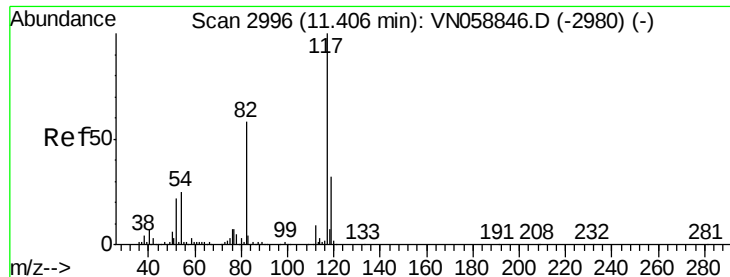
MMDadoda
 11/4/2019 7:04:16 AM



#62
 4-Bromofluorobenzene
 Concen: 51.565 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	147.6
176	76.7	0.0	143.2





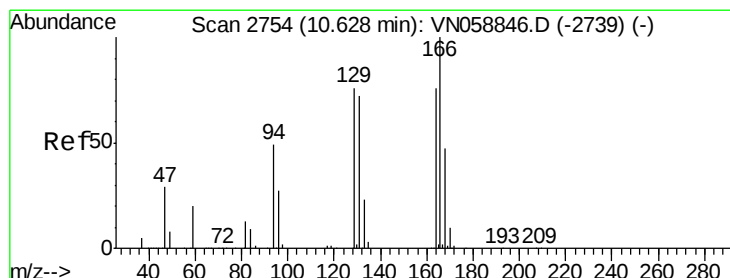
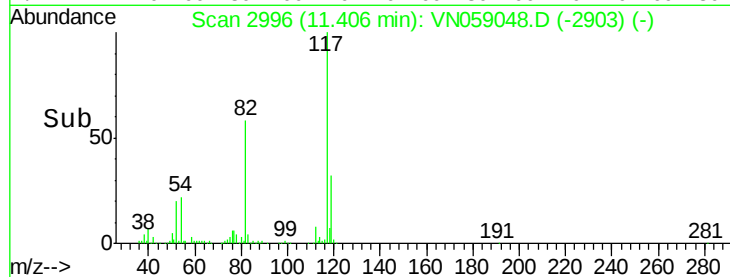
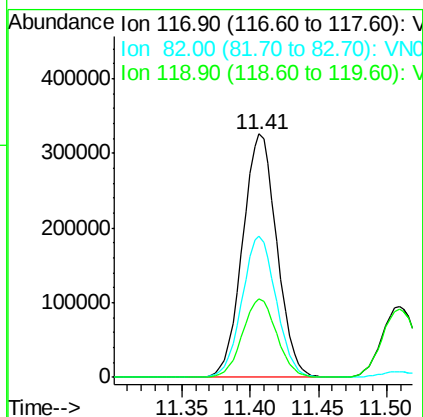
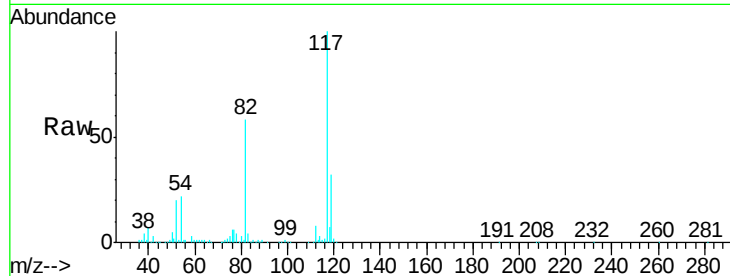
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	568590		
82	58.1	46.6	69.8	
119	32.1	25.6	38.4	

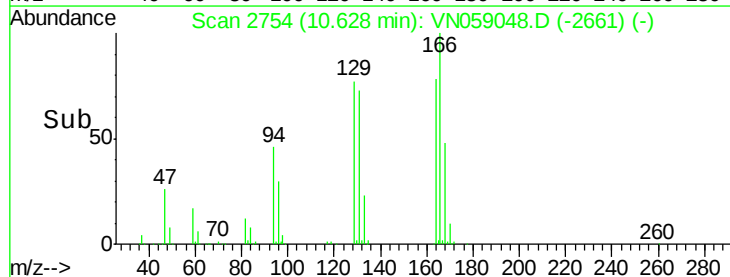
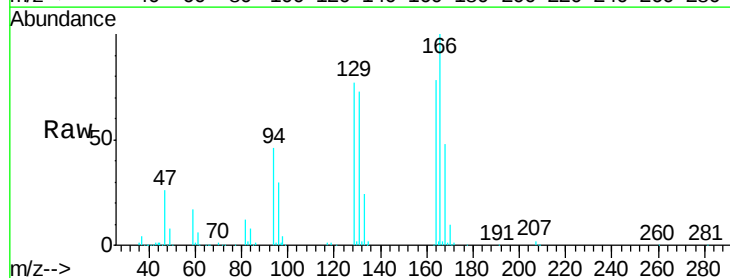
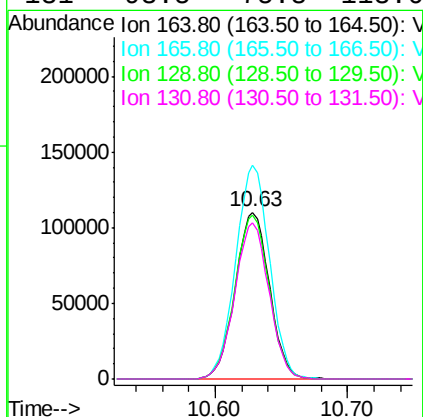
Manual Integrations
APPROVED

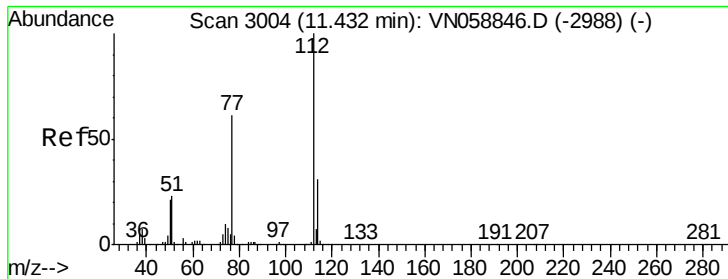
MMDadoda
11/4/2019 7:04:16 AM



#64
Tetrachloroethene
Concen: 49.580 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	197430		
166	128.1	104.8	157.2	
129	98.3	79.3	118.9	
131	93.5	75.8	113.6	





#65

Chlorobenzene

Concen: 54.086 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:112 Resp: 626087

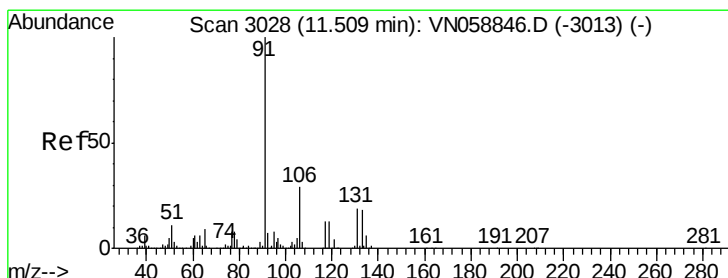
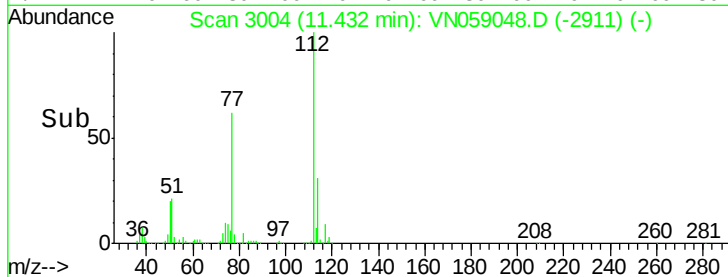
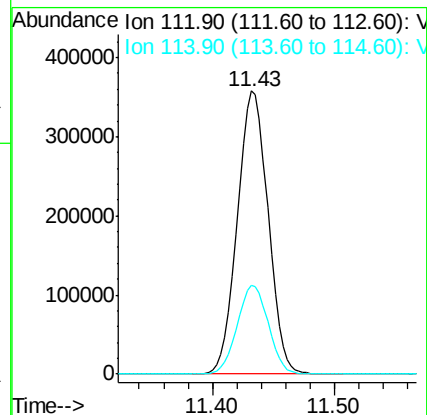
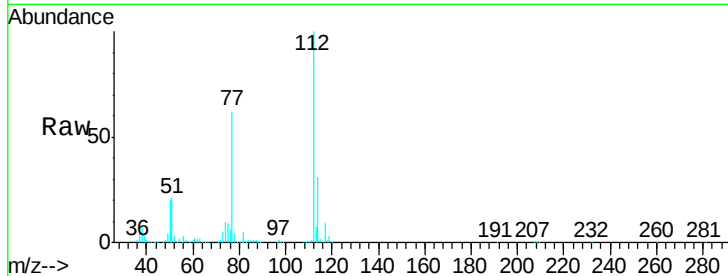
Ion Ratio Lower Upper

112 100

114 31.2 25.1 37.7

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 55.293 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

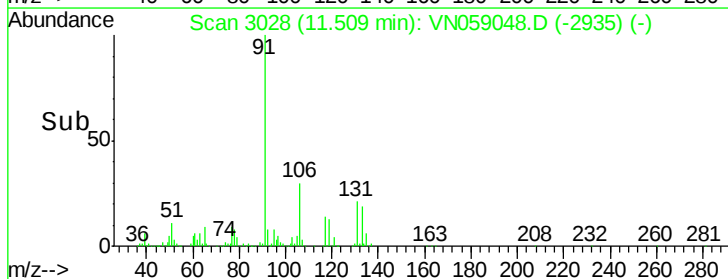
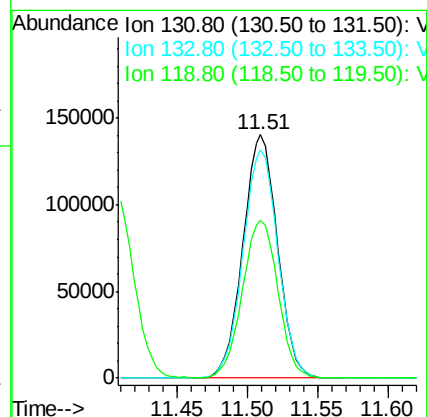
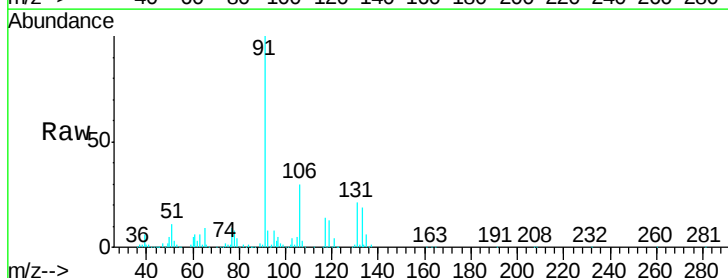
Tgt Ion:131 Resp: 241530

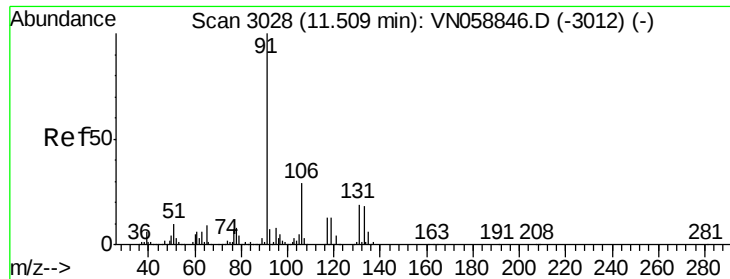
Ion Ratio Lower Upper

131 100

133 95.1 48.4 145.2

119 66.5 33.6 100.8





#67

Ethyl Benzene

Concen: 56.260 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 1142435

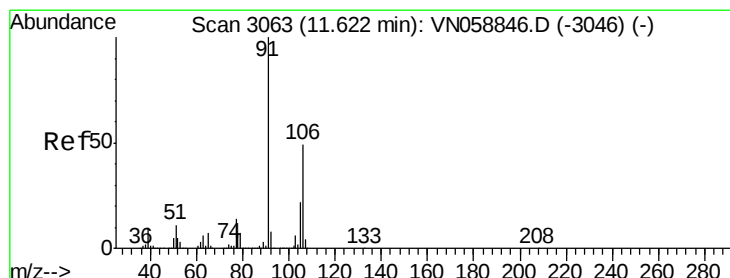
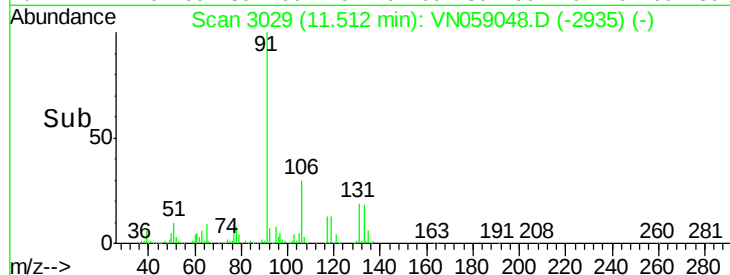
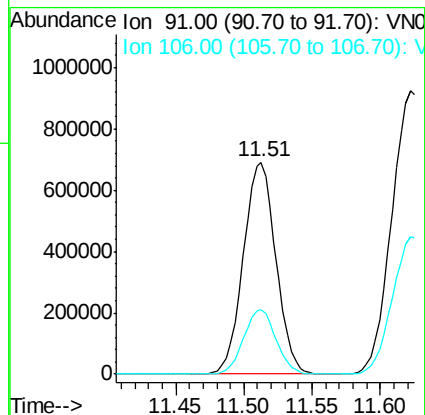
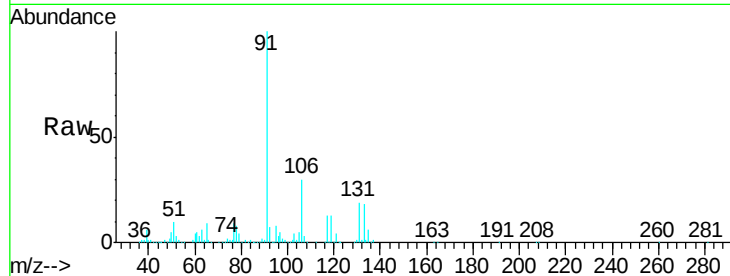
Ion Ratio Lower Upper

91 100

106 30.4 23.4 35.0

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#68

m/p-Xylenes

Concen: 111.808 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN059048.D

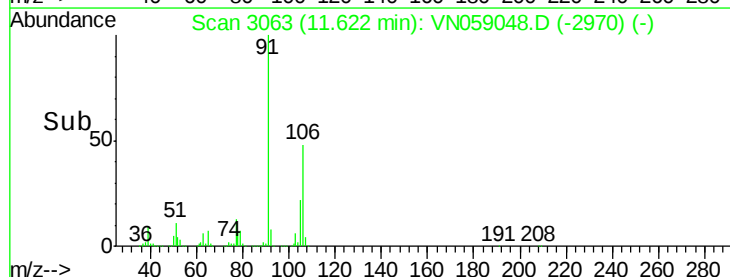
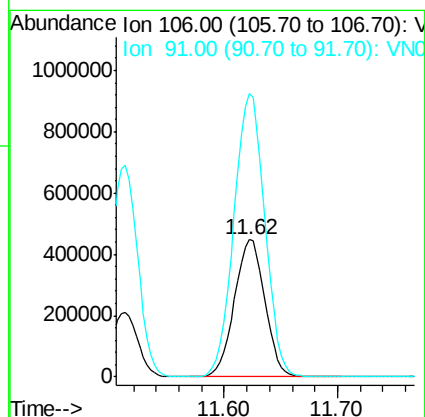
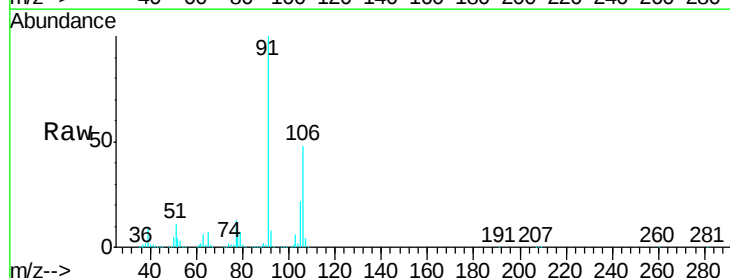
Acq: 31 Oct 2019 18:34

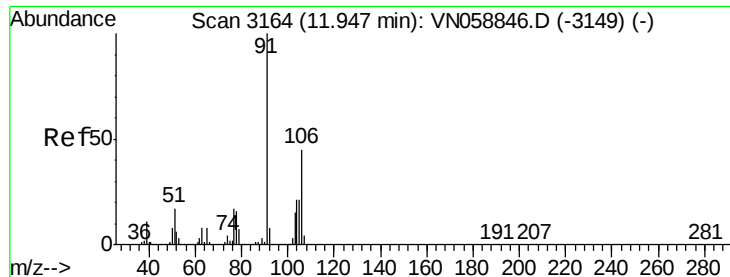
Tgt Ion: 106 Resp: 841978

Ion Ratio Lower Upper

106 100

91 208.5 166.6 249.8





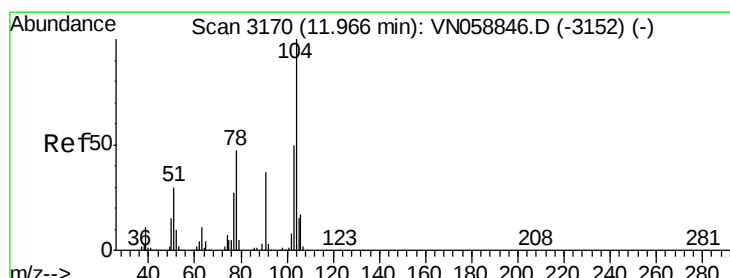
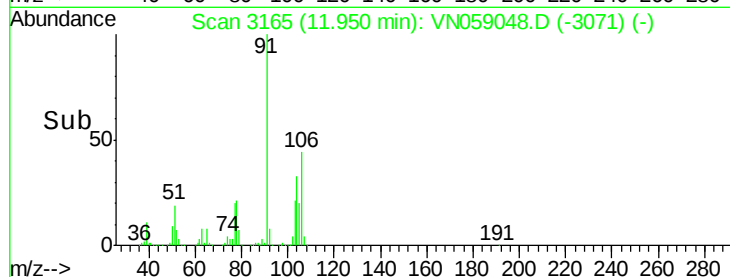
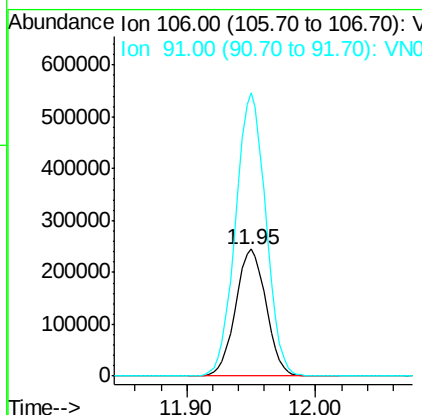
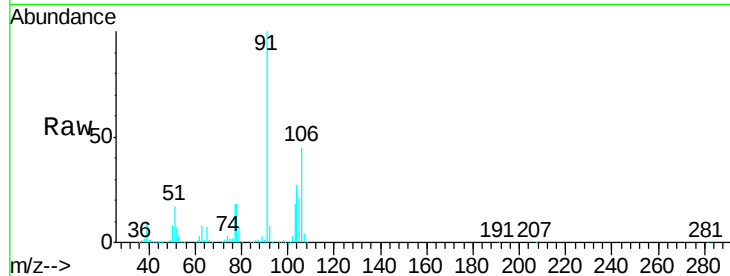
#69
o-Xylene
Concen: 56.033 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 402439
Ion Ratio Lower Upper
106 100
91 221.5 111.5 334.4

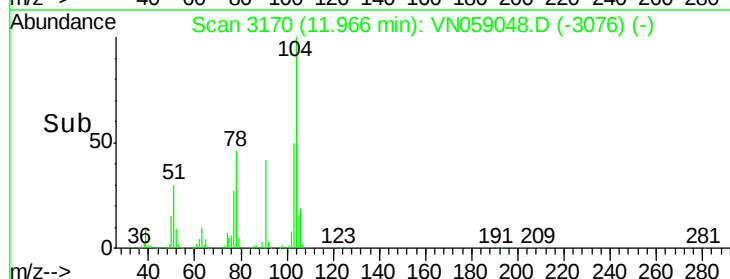
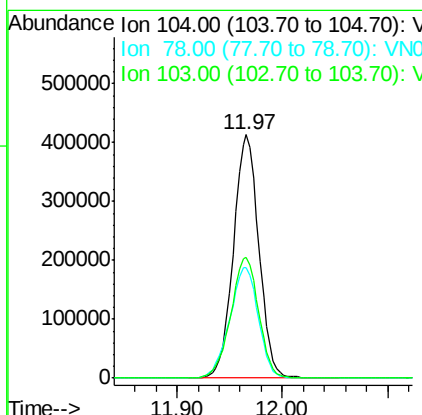
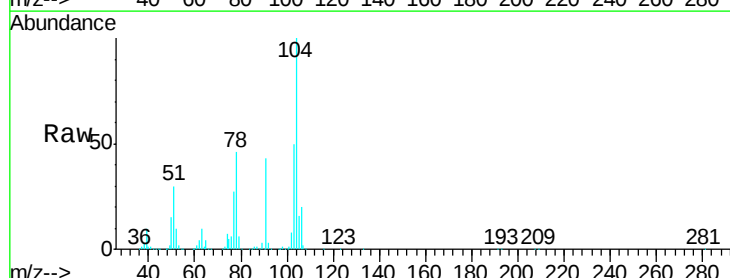
Manual Integrations
APPROVED

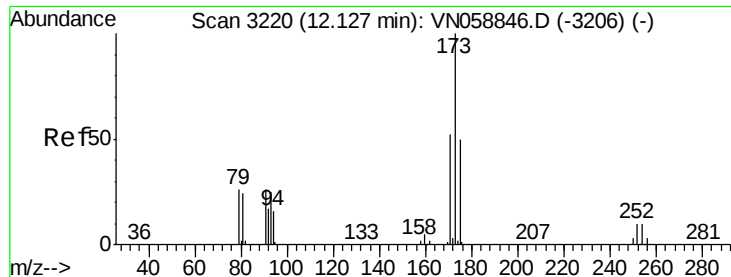
MMDadoda
11/4/2019 7:04:16 AM



#70
Styrene
Concen: 51.916 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion:104 Resp: 689168
Ion Ratio Lower Upper
104 100
78 51.3 42.8 64.2
103 54.5 44.3 66.5





#71

Bromoform

Concen: 57.905 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

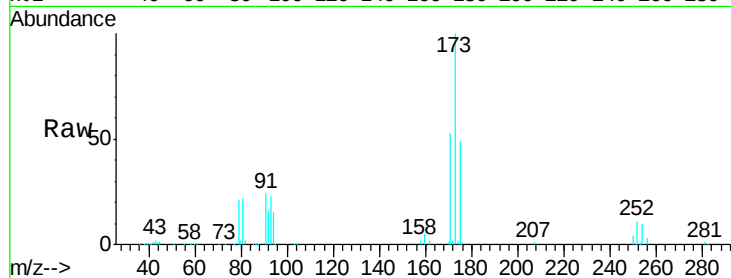
ClientSampleId :

VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.7	74.1
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM

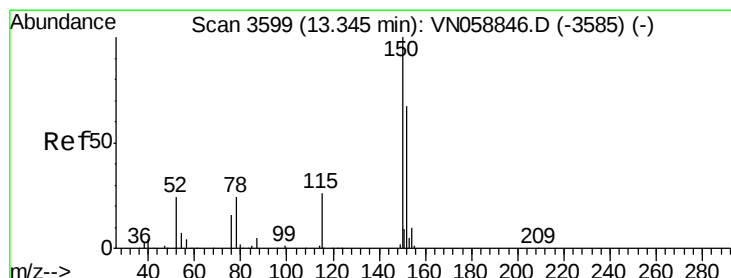
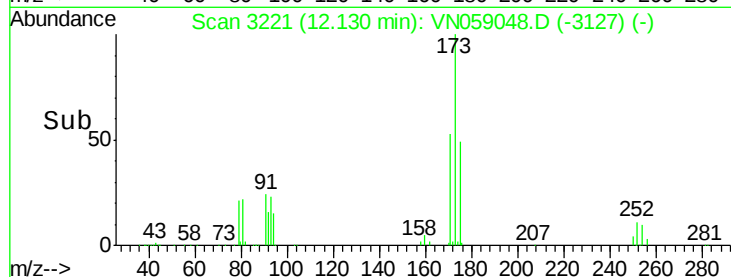
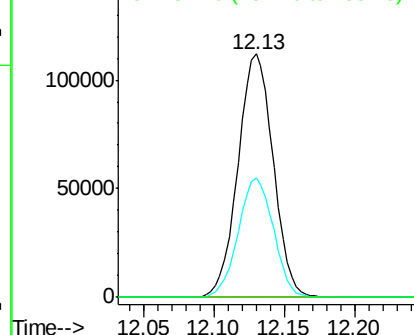


Abundance

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: VN059048.D

Acq: 31 Oct 2019 18:34

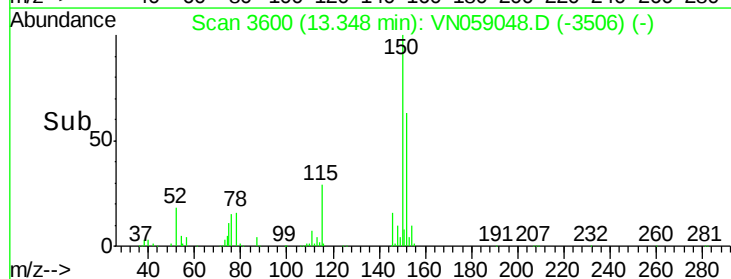
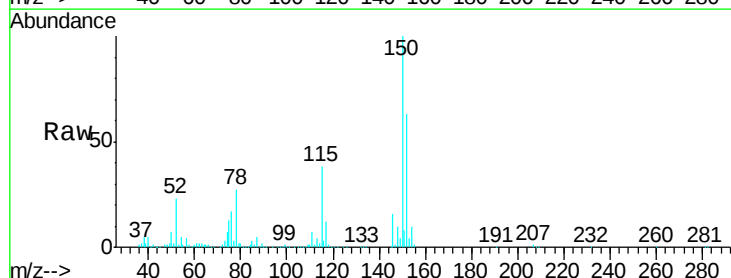
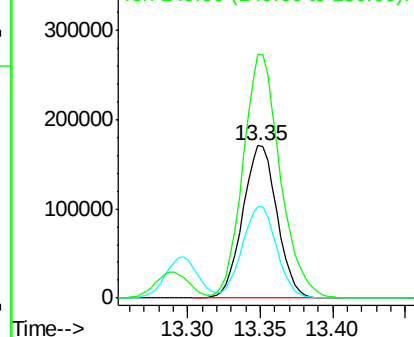
Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.5	91.5
150	173.7	0.0	344.4

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: 53.723 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 105 Resp: 1100374

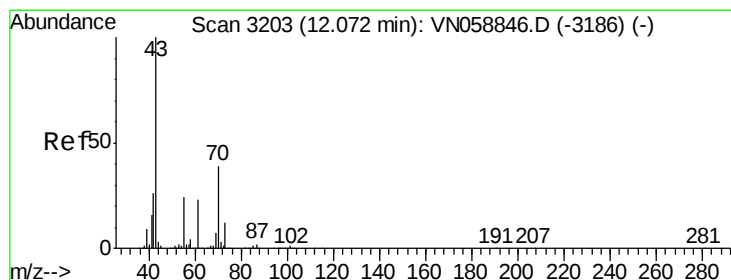
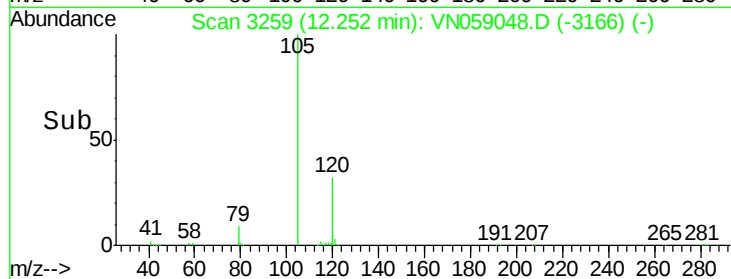
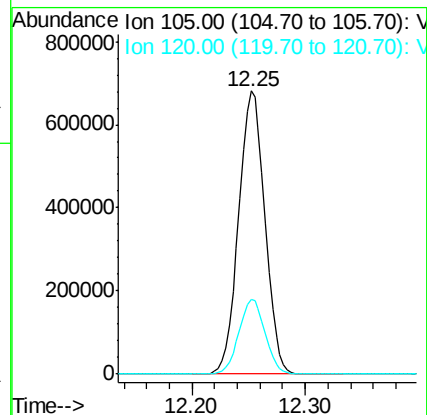
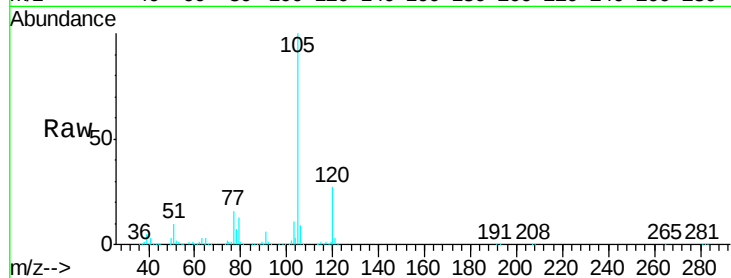
Ion Ratio Lower Upper

105 100

120 26.3 12.8 38.4

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#74

N-ethyl acetate

Concen: 58.085 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Tgt Ion: 43 Resp: 539363

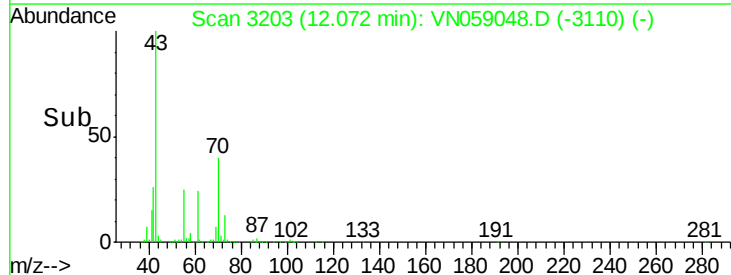
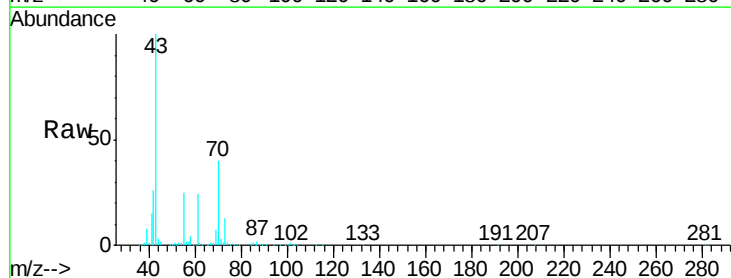
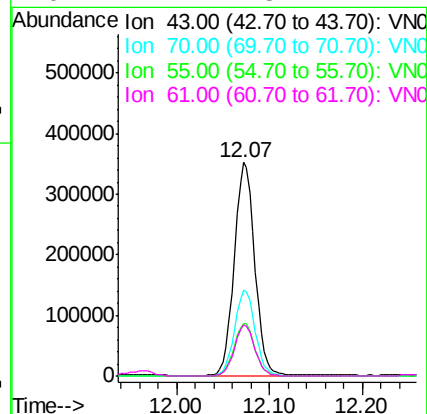
Ion Ratio Lower Upper

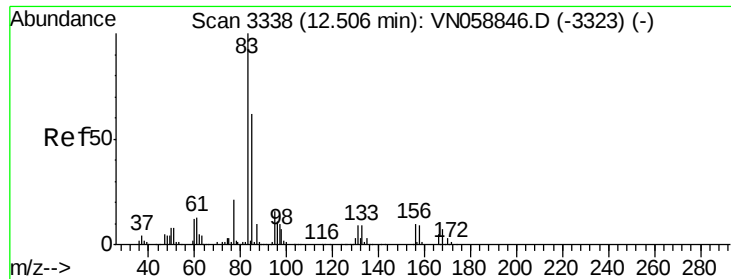
43 100

70 40.4 30.9 46.3

55 25.1 19.7 29.5

61 24.1 18.2 27.4





#75

1,1,2,2-Tetrachloroethane

Concen: 55.076 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 396653
Ion Ratio Lower Upper

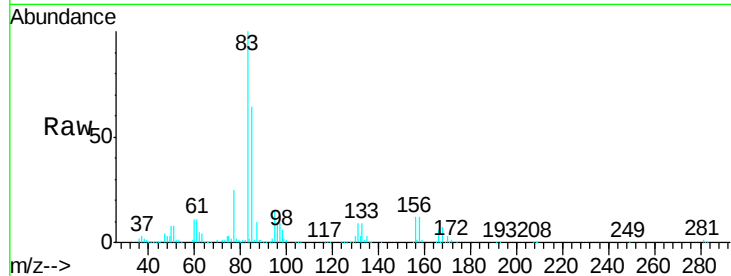
83 100

131 9.7 4.7 14.1

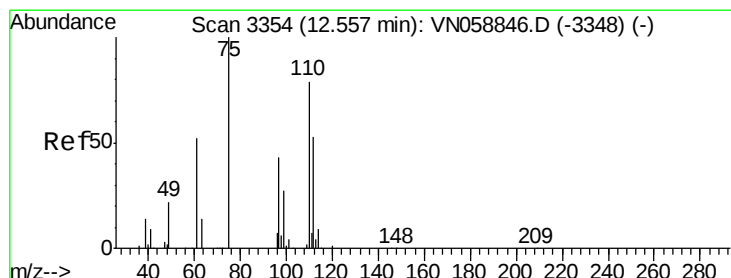
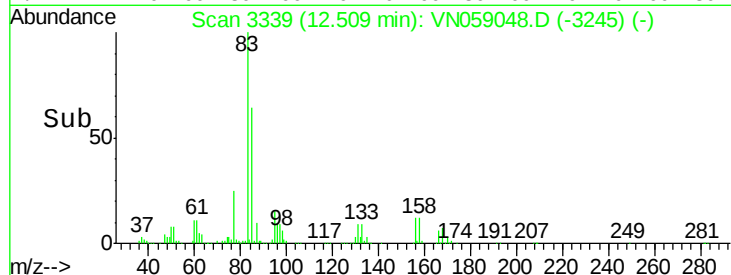
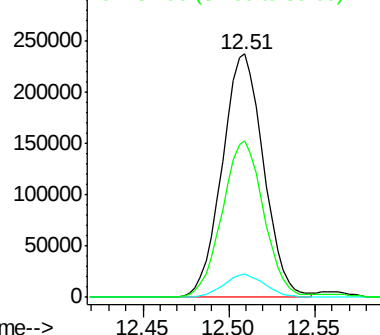
85 64.5 31.7 95.1

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



Abundance Ion 82.90 (82.60 to 83.60): VN058846.D (-3323) (-)
Ion 130.80 (130.50 to 131.50): VN058846.D (-3323) (-)
Ion 84.90 (84.60 to 85.60): VN058846.D (-3323) (-)



#76

1,2,3-Trichloropropane

Concen: 54.859 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

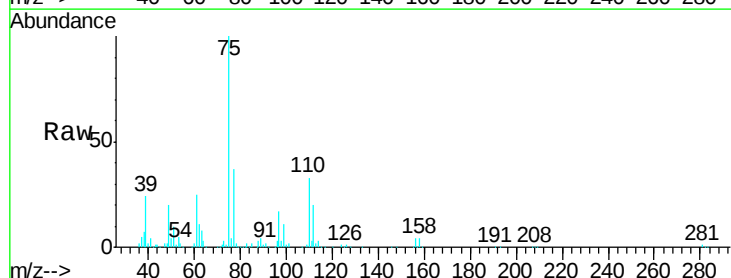
Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

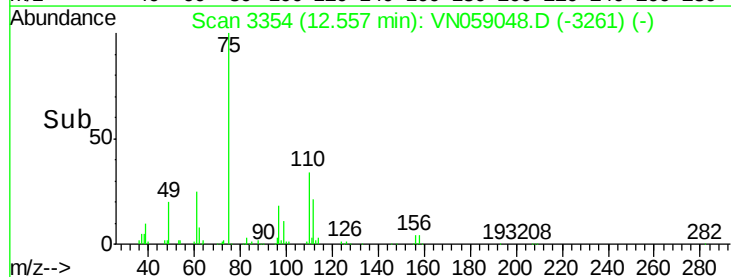
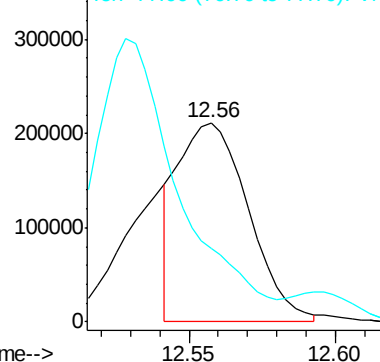
Tgt Ion: 75 Resp: 356337
Ion Ratio Lower Upper

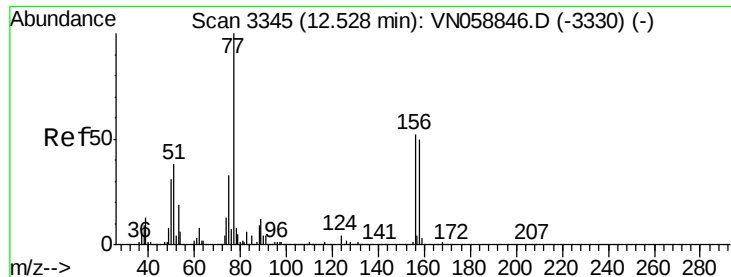
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-3348) (-)
Ion 77.00 (76.70 to 77.70): VN058846.D (-3348) (-)





#77

Bromobenzene

Concen: 53.249 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

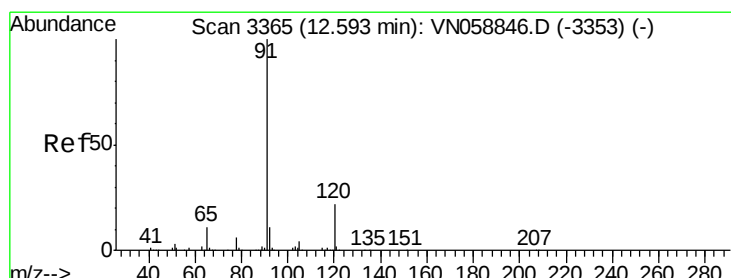
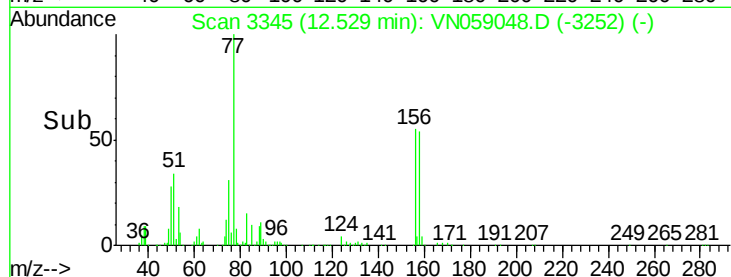
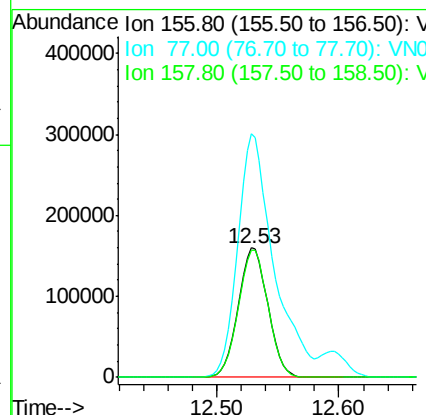
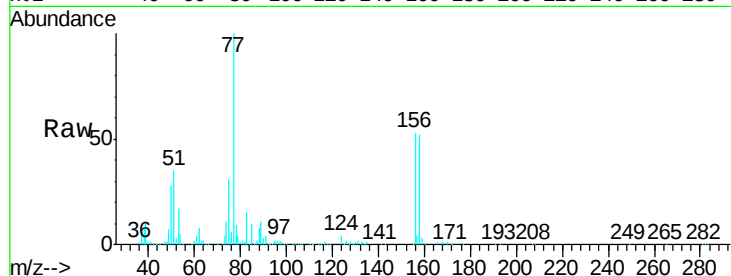
ClientSampleId :

VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
156	100		
77	229.8	118.0	354.0
158	98.6	48.3	144.8

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#78

n-propylbenzene

Concen: 54.427 ug/l

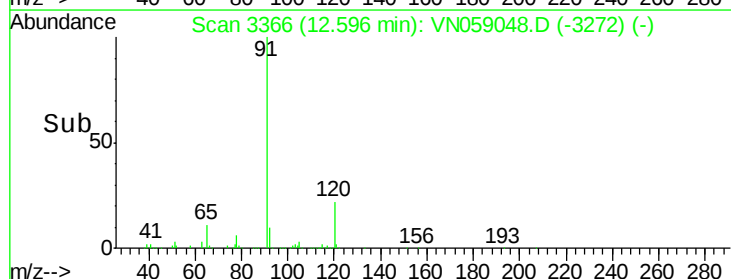
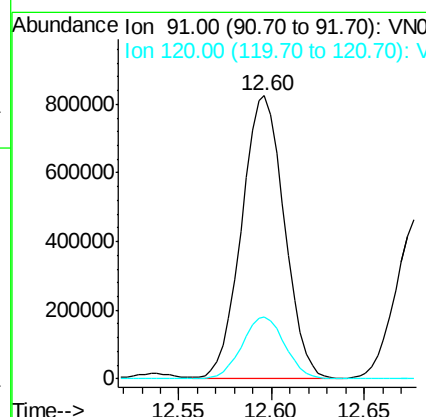
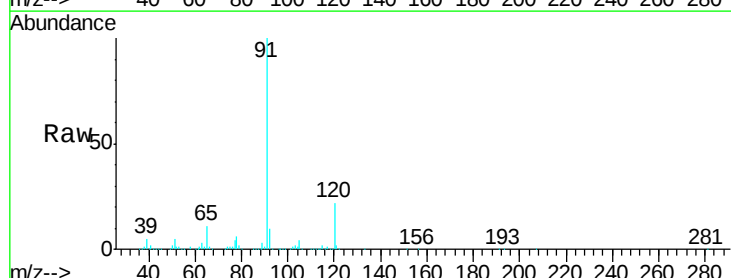
RT: 12.60 min Scan# 3366

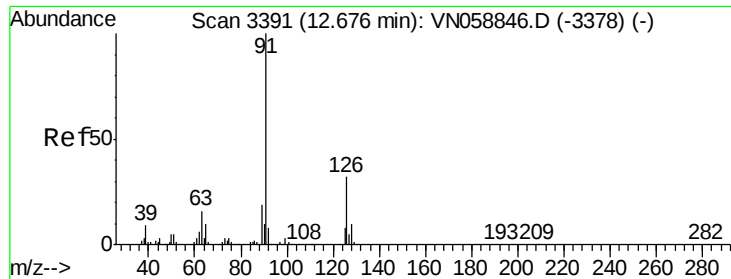
Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.1





#79

2-Chlorotoluene

Concen: 53.128 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 787248

Ion Ratio Lower Upper

91 100

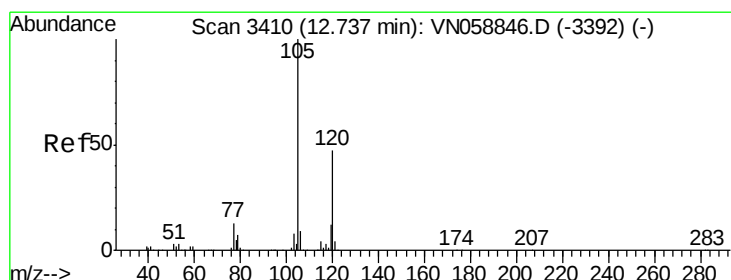
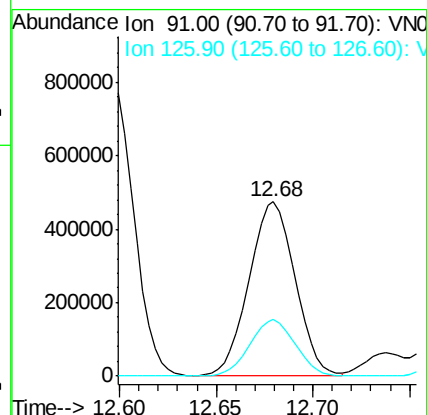
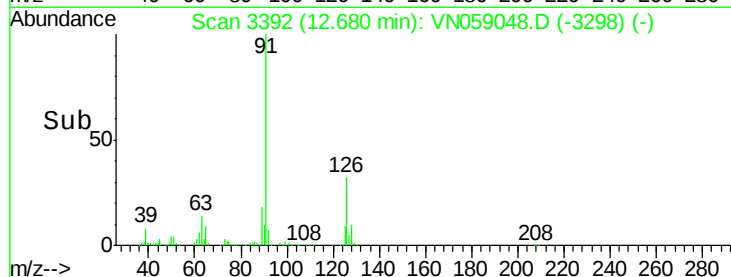
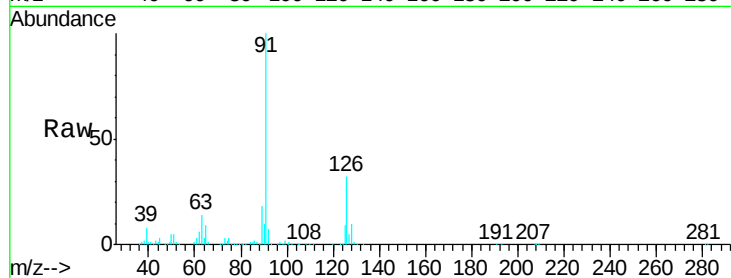
126 32.2 16.2 48.6

Manual Integrations

APPROVED

MMDadoda

11/4/2019 7:04:16 AM



#80

1,3,5-Trimethylbenzene

Concen: 54.991 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN059048.D

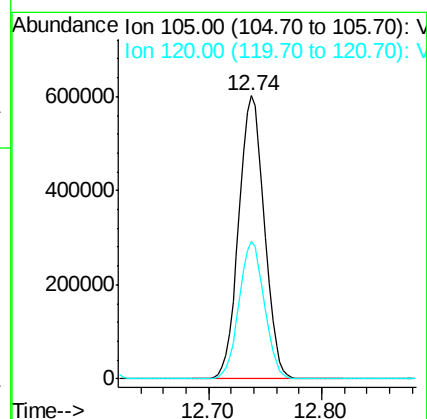
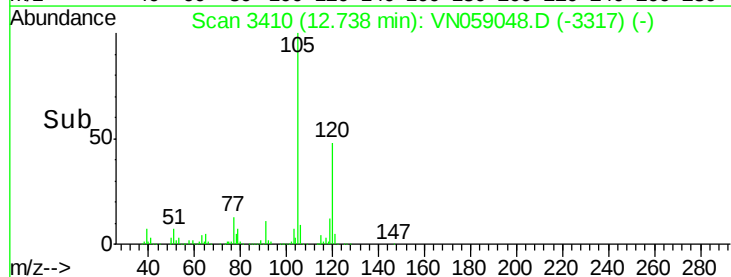
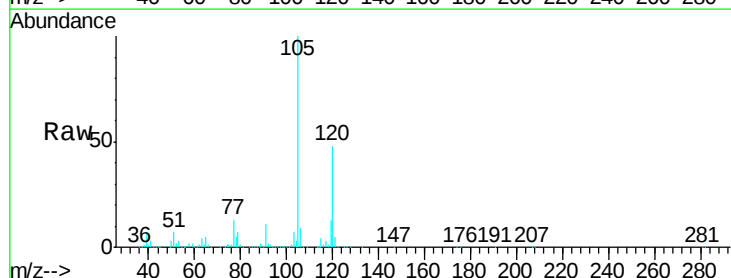
Acq: 31 Oct 2019 18:34

Tgt Ion: 105 Resp: 946337

Ion Ratio Lower Upper

105 100

120 48.0 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

Concen: 55.609 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

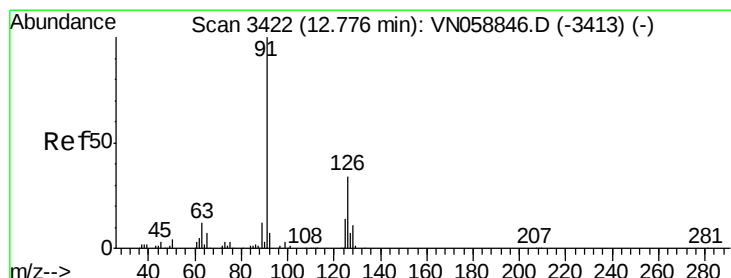
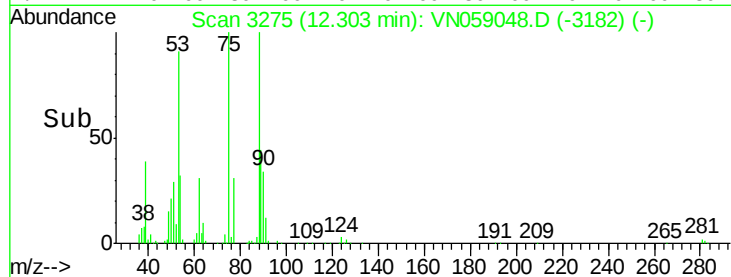
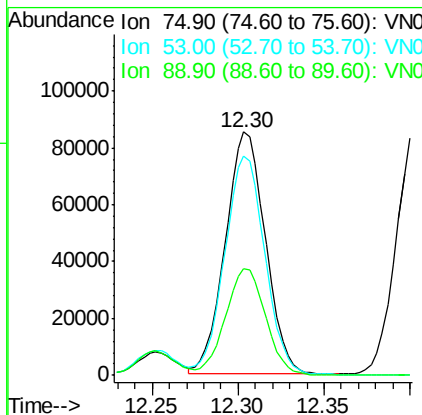
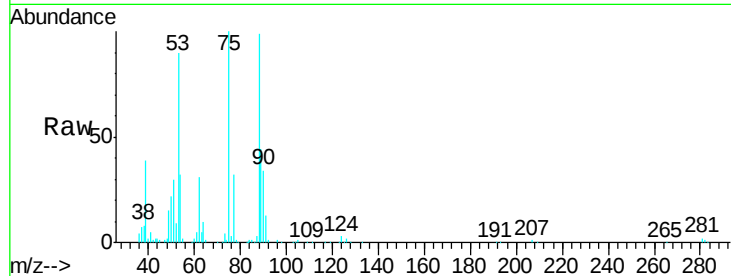
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	75	Resp:	138655
Ion Ratio	Lower	Upper	
75	100		
53	91.7	78.6	118.0
89	44.2	35.4	53.0

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#82

4-Chlorotoluene

Concen: 53.052 ug/l

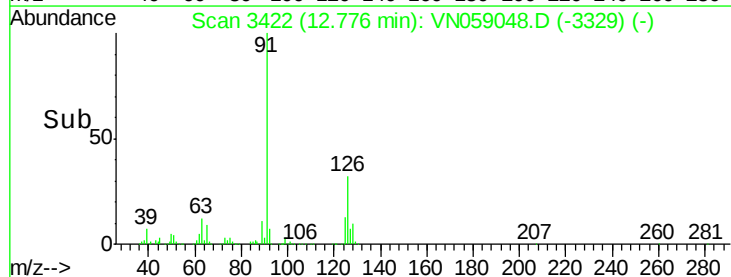
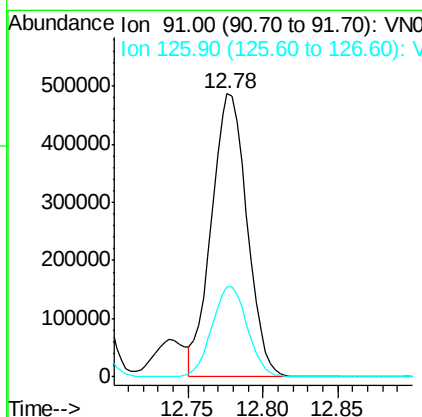
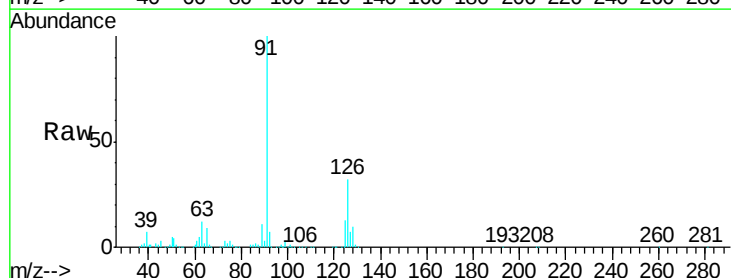
RT: 12.78 min Scan# 3422

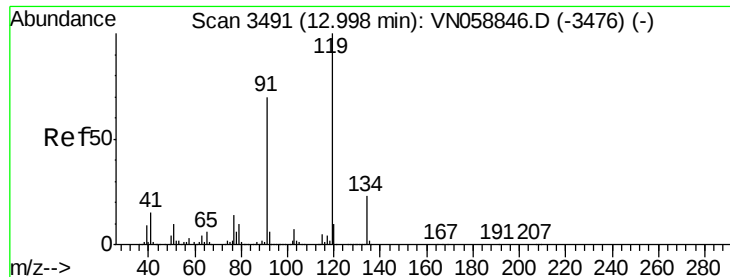
Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Tgt Ion:	91	Resp:	803362
Ion Ratio	Lower	Upper	
91	100		
126	31.9	16.0	47.9





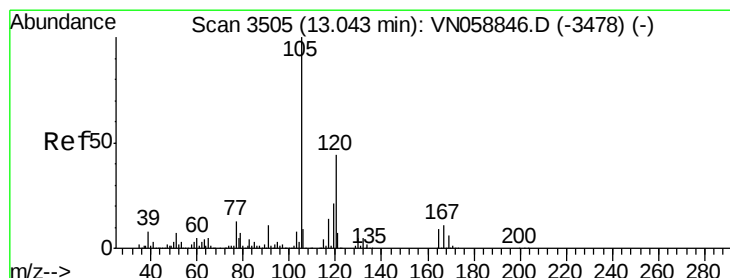
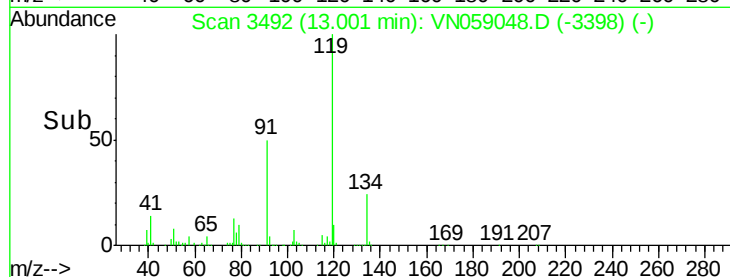
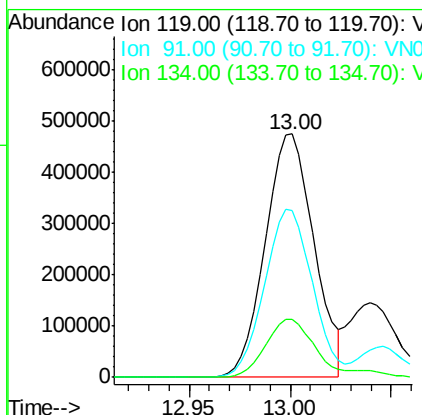
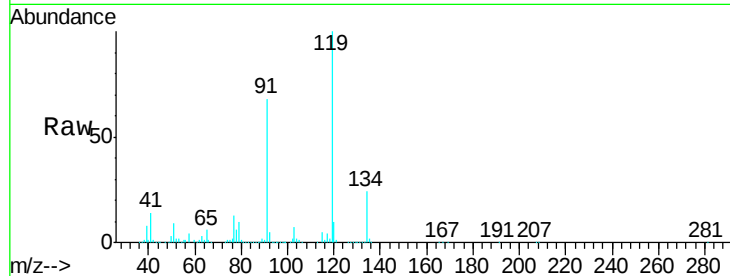
#83
tert-Butylbenzene
Concen: 54.214 ug/l
RT: 13.00 min Scan# 3492
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
119	100		
91	67.5	34.1	102.3
134	23.9	11.6	34.8

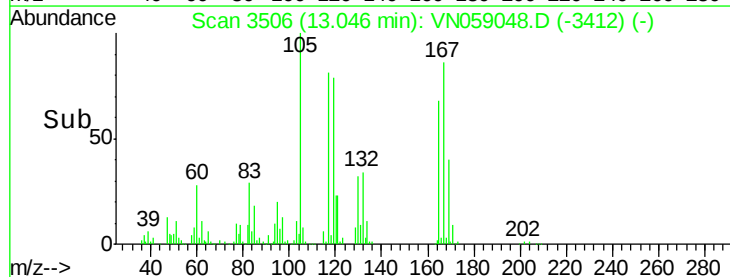
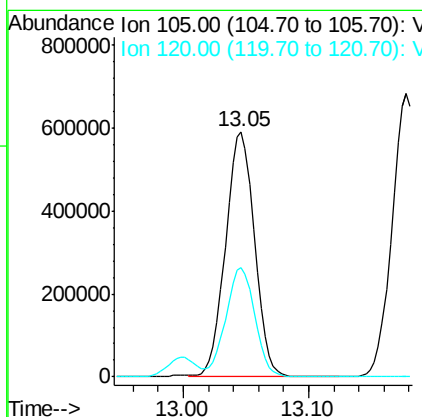
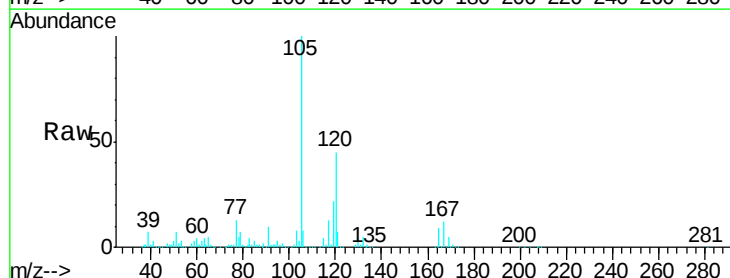
Manual Integrations
APPROVED

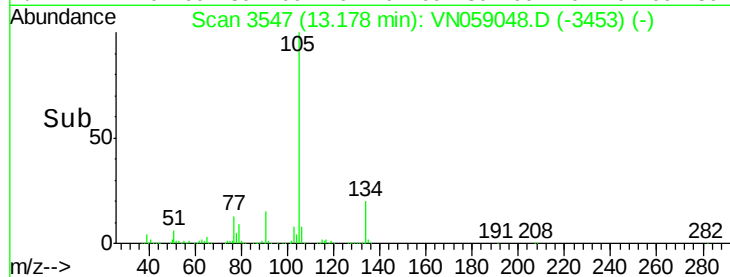
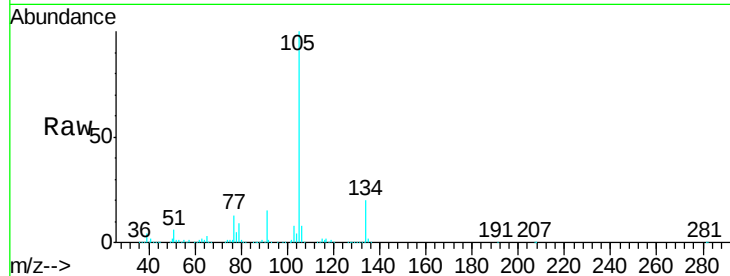
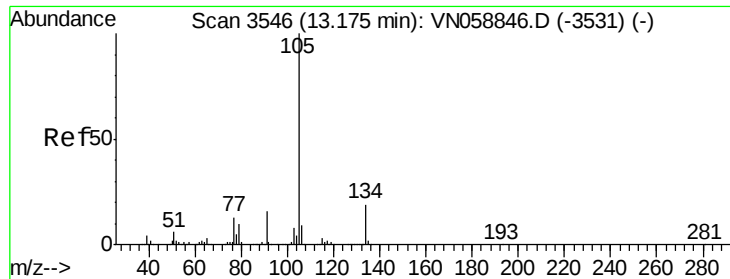
MMDadoda
11/4/2019 7:04:16 AM



#84
1,2,4-Trimethylbenzene
Concen: 55.573 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.9	65.8





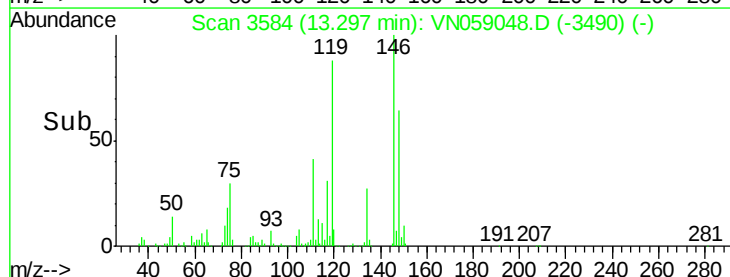
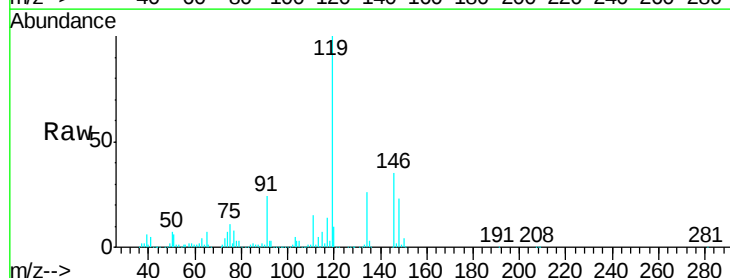
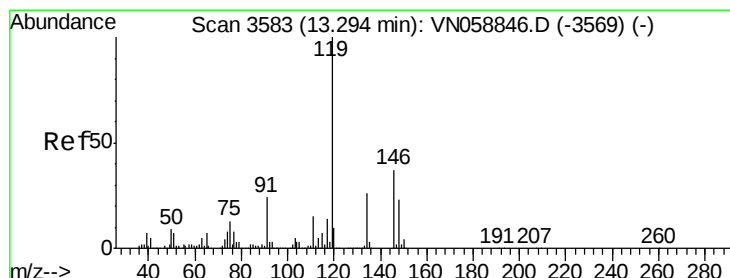
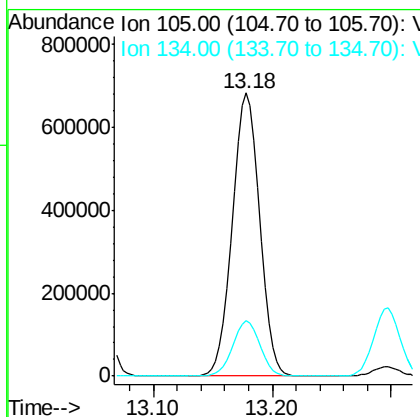
#85
 sec-Butylbenzene
 Concen: 55.250 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Tgt Ion: 105 Resp: 1083991
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.4 28.2

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

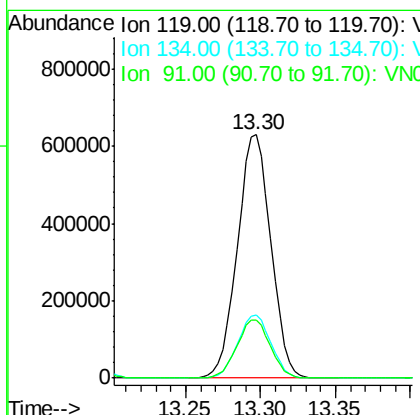
Manual Integrations
 APPROVED

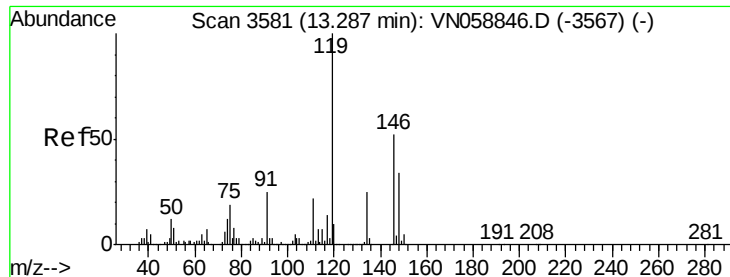
MMDadoda
 11/4/2019 7:04:16 AM



#86
 p-Isopropyltoluene
 Concen: 56.524 ug/l
 RT: 13.30 min Scan# 3584
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Tgt Ion: 119 Resp: 978515
 Ion Ratio Lower Upper
 119 100
 134 25.8 12.8 38.4
 91 23.9 12.2 36.4





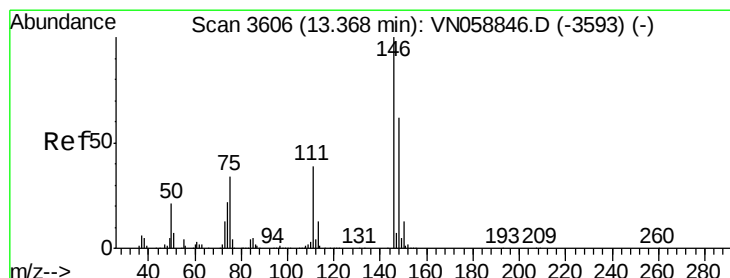
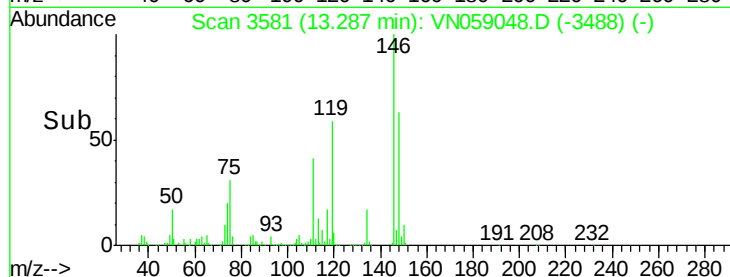
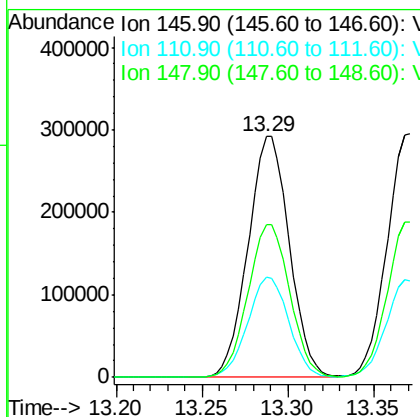
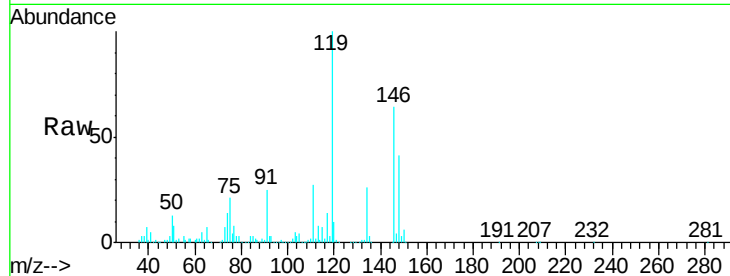
#87
 1,3-Dichlorobenzene
 Concen: 53.858 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.0	63.0
148	64.1	32.1	96.3

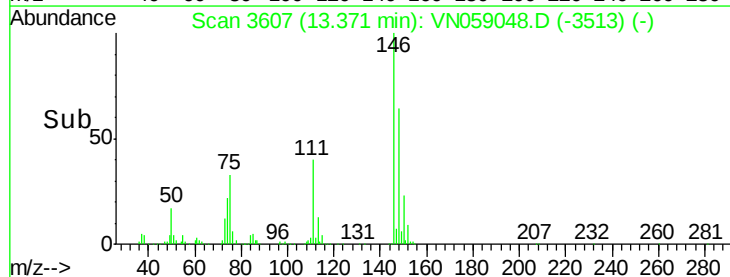
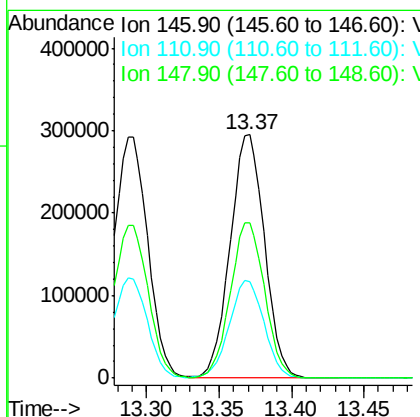
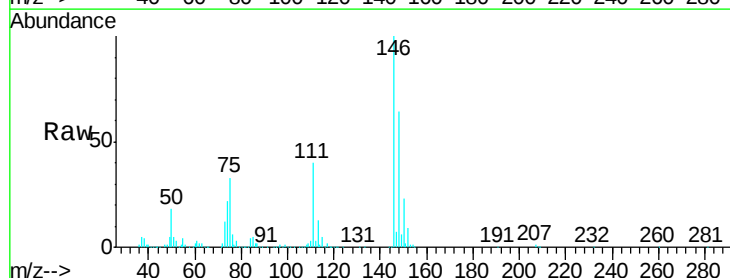
Manual Integrations
 APPROVED

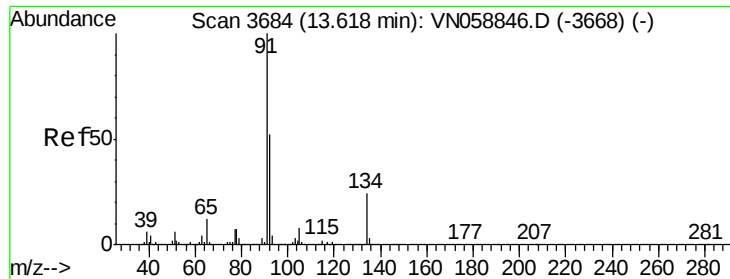
MMDadoda
 11/4/2019 7:04:16 AM



#88
 1,4-Dichlorobenzene
 Concen: 53.519 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.2	60.6
148	63.9	31.6	94.7





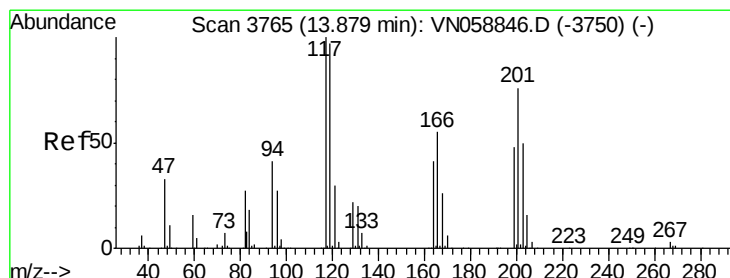
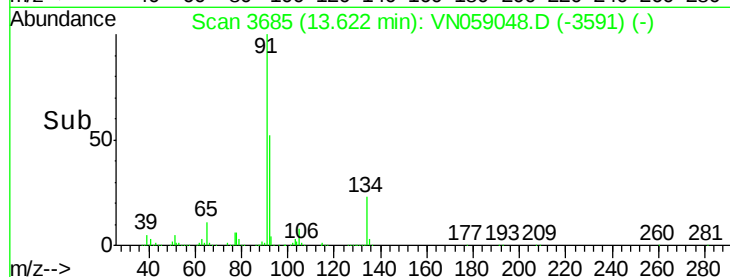
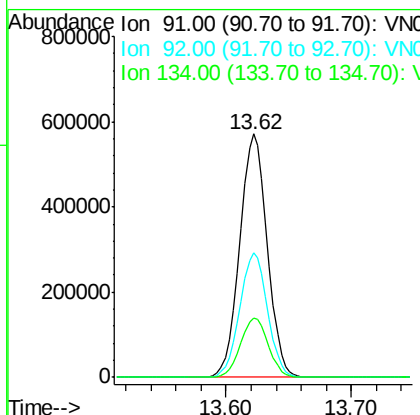
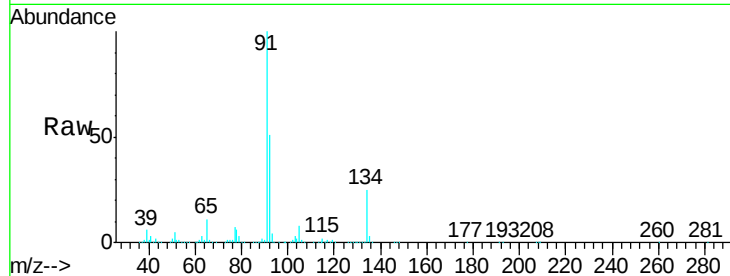
#89
n-Butylbenzene
Concen: 54.667 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.6	25.7	77.1
134	24.7	11.9	35.5

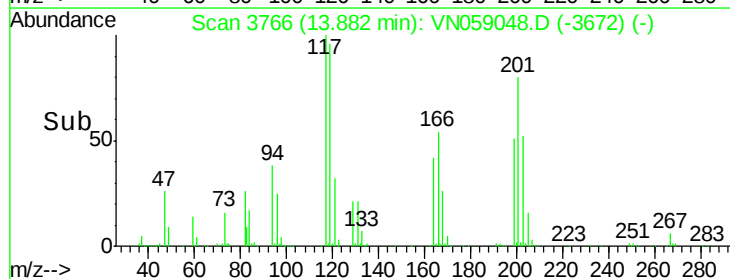
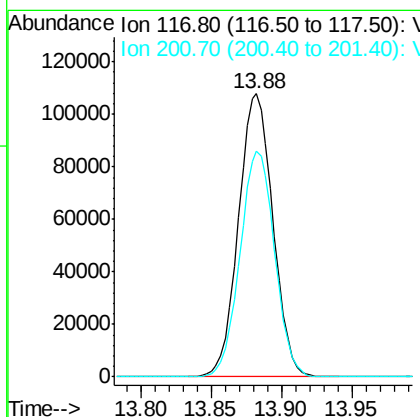
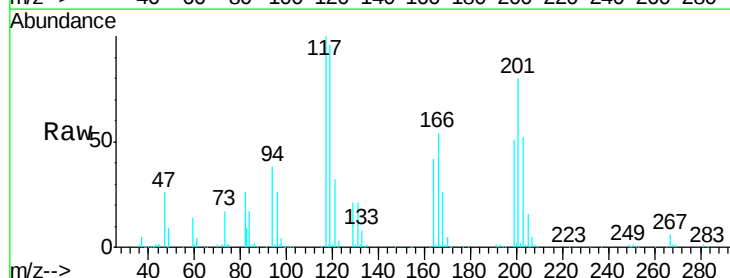
Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#90
Hexachloroethane
Concen: 52.537 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. 0.00 min
Lab File: VN059048.D
Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.3	38.9	116.6





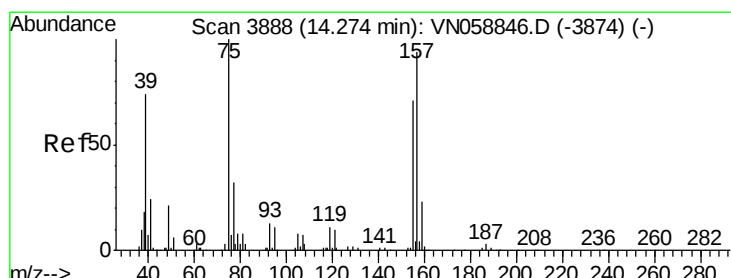
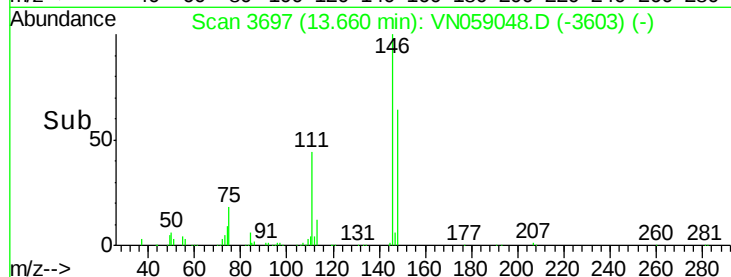
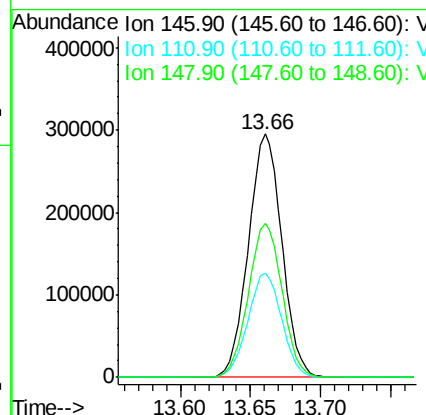
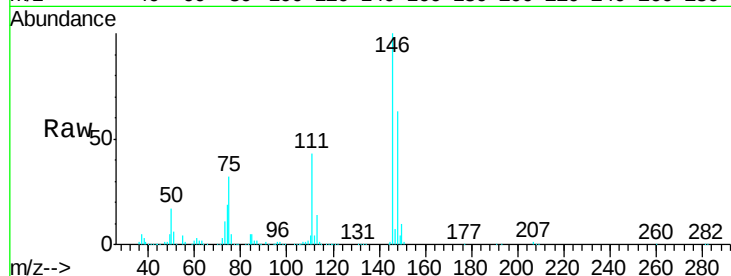
#91
 1,2-Dichlorobenzene
 Concen: 55.459 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	492062		
111	43.1	21.6	64.8	
148	63.8	31.9	95.9	

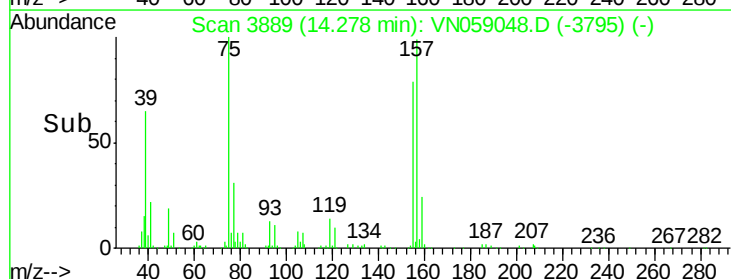
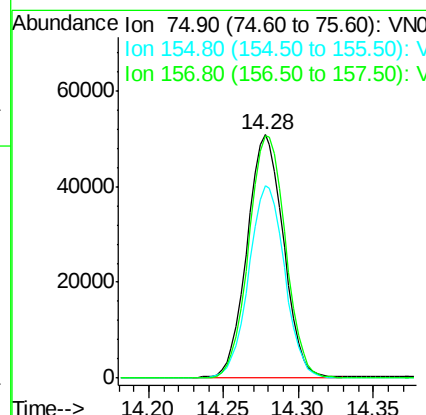
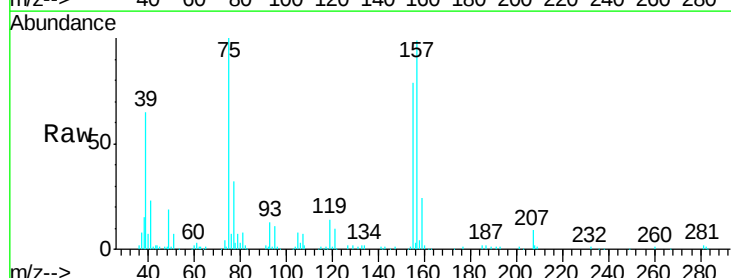
Manual Integrations
 APPROVED

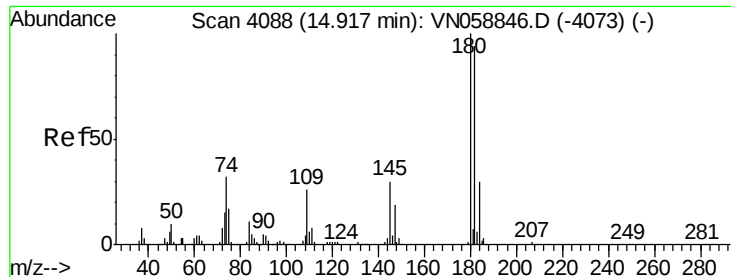
MMDadoda
 11/4/2019 7:04:16 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 52.311 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	85212		
155	78.8	35.6	106.8	
157	101.5	47.4	142.2	





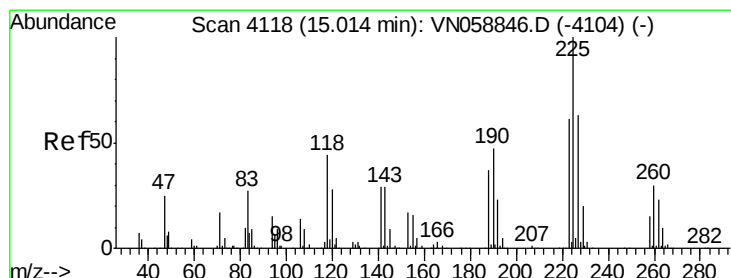
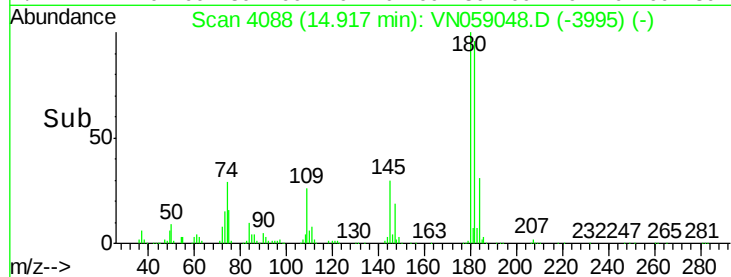
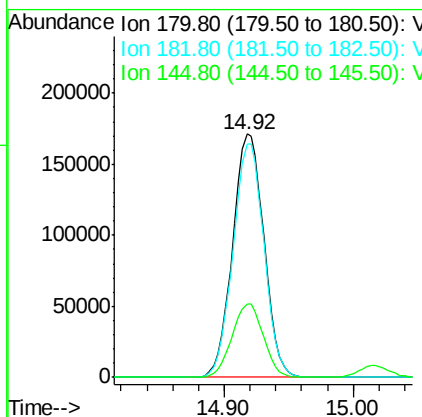
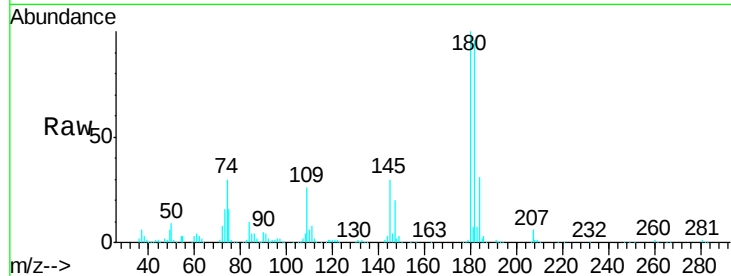
#93
 1,2,4-Trichlorobenzene
 Concen: 51.518 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	288201		
182	95.3	47.3	142.0	
145	30.3	15.3	45.8	

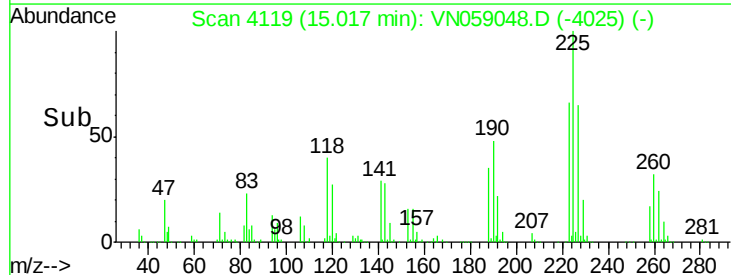
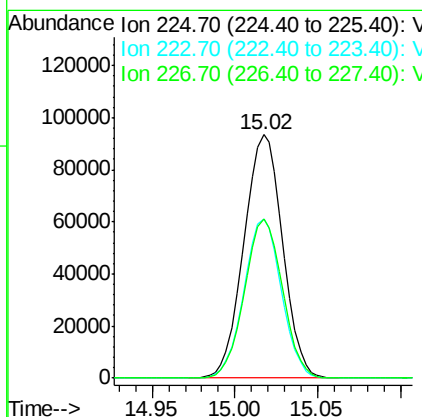
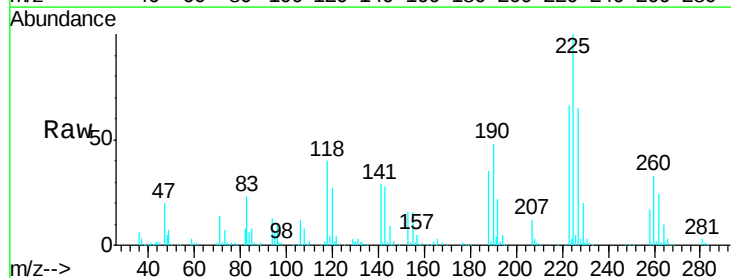
Manual Integrations
 APPROVED

MMDadoda
 11/4/2019 7:04:16 AM



#94
 Hexachlorobutadiene
 Concen: 52.834 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN059048.D
 Acq: 31 Oct 2019 18:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	151935		
223	63.4	30.9	92.5	
227	63.9	31.6	94.7	





#95

Naphthalene

Concen: 53.879 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Instrument :

MSVOA_N

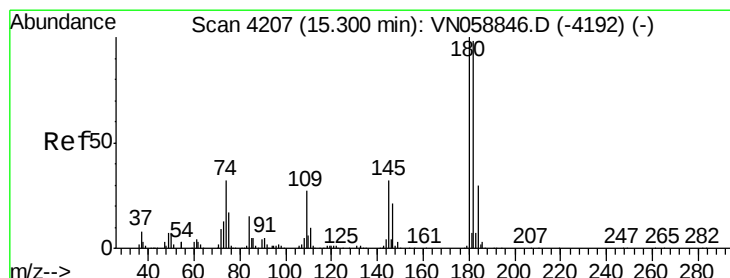
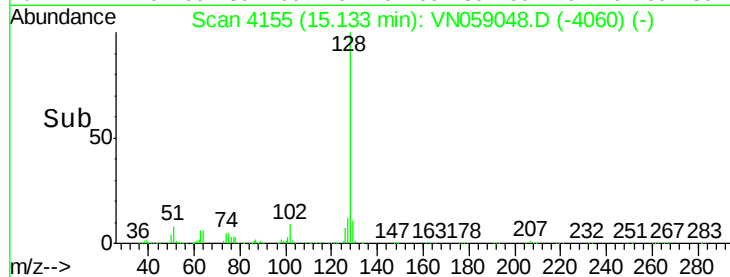
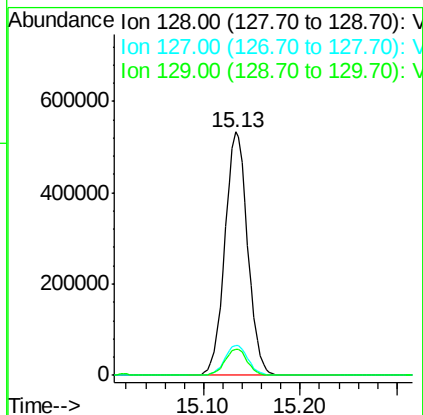
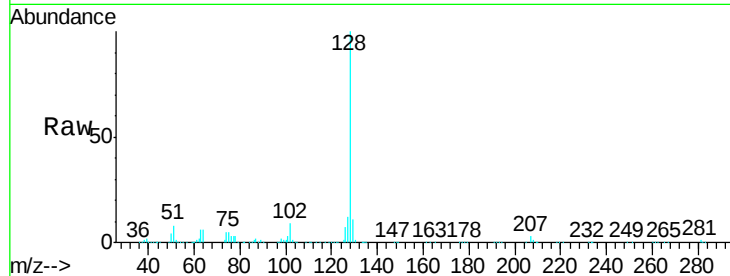
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	128	Resp:	867836
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.2	15.2
129	10.7	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
11/4/2019 7:04:16 AM



#96

1,2,3-Trichlorobenzene

Concen: 53.625 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN059048.D

Acq: 31 Oct 2019 18:34

Tgt Ion:	180	Resp:	292584
Ion Ratio	Lower	Upper	
180	100		
182	94.3	47.9	143.7
145	31.0	15.9	47.7

