

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN061001.D
 Acq On : 16 Apr 2020 6:36
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 4/16/2020 11:15:12 AM

Quant Time: Apr 16 08:15:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	136473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	235790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	217567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	103558	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	100045	53.40	ug/l	0.00
Spiked Amount						
			Recovery	=	106.80%	
35) Dibromofluoromethane	7.56	113	75815	53.18	ug/l	0.00
Spiked Amount						
			Recovery	=	106.36%	
50) Toluene-d8	10.08	98	295256	50.70	ug/l	0.00
Spiked Amount						
			Recovery	=	101.40%	
62) 4-Bromofluorobenzene	12.39	95	109644	51.37	ug/l	0.00
Spiked Amount						
			Recovery	=	102.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	51898	39.302	ug/l	98
3) Chloromethane	2.04	50	96026	38.936	ug/l	100
4) Vinyl Chloride	2.17	62	77859	40.362	ug/l	97
5) Bromomethane	2.55	94	40757	48.945	ug/l	97
6) Chloroethane	2.68	64	51306	46.172	ug/l	99
7) Trichlorofluoromethane	3.00	101	109710	46.169	ug/l	100
8) Diethyl Ether	3.38	74	47413	49.669	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	65031	47.230	ug/l	99
10) Methyl Iodide	3.92	142	49138	40.106	ug/l	99
11) Tert butyl alcohol	4.72	59	74108	268.968	ug/l	99
12) 1,1-Dichloroethene	3.71	96	66070	44.715	ug/l	95
13) Acrolein	3.57	56	81840	268.006	ug/l	99
14) Allyl chloride	4.29	41	120460	46.353	ug/l	98
15) Acrylonitrile	4.94	53	216830	267.621	ug/l	99
16) Acetone	3.78	43	174597	263.098	ug/l	99
17) Carbon Disulfide	4.03	76	171653	38.198	ug/l	99
18) Methyl Acetate	4.28	43	104075	55.717	ug/l	100
19) Methyl tert-butyl Ether	5.00	73	253953	49.990	ug/l	98
20) Methylene Chloride	4.52	84	78545	48.114	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	71843	45.621	ug/l	92
22) Diisopropyl ether	5.91	45	290041	52.828	ug/l	99
23) Vinyl Acetate	5.85	43	1188184	265.240	ug/l	99
24) 1,1-Dichloroethane	5.82	63	152501	50.952	ug/l	99
25) 2-Butanone	6.79	43	288623	268.774	ug/l	98
26) 2,2-Dichloropropane	6.79	77	92273	39.183	ug/l	99
27) cis-1,2-Dichloroethene	6.80	96	86881	48.549	ug/l	100
28) Bromochloromethane	7.17	49	76732	53.584	ug/l	96
29) Tetrahydrofuran	7.18	42	195232	256.955	ug/l	99
30) Chloroform	7.34	83	143421	49.984	ug/l	98
31) Cyclohexane	7.63	56	132059	43.765	ug/l	97
32) 1,1,1-Trichloroethane	7.54	97	122656	49.587	ug/l	99
36) 1,1-Dichloropropene	7.77	75	106925	46.832	ug/l	99
37) Ethyl Acetate	6.89	43	121544	49.268	ug/l	99
38) Carbon Tetrachloride	7.75	117	95406	46.624	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN061001.D
 Acq On : 16 Apr 2020 6:36
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 4/16/2020 11:15:12 AM

Quant Time: Apr 16 08:15:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	120232	44.313	ug/l	97
40) Benzene	8.02	78	326083	47.311	ug/l	100
41) Methacrylonitrile	7.14	41	54793m	52.042	ug/l	
42) 1,2-Dichloroethane	8.10	62	116742	49.562	ug/l	98
43) Isopropyl Acetate	8.14	43	206788	50.825	ug/l	99
44) Trichloroethene	8.81	130	80024	46.057	ug/l	99
45) 1,2-Dichloropropane	9.10	63	91760	50.454	ug/l	99
46) Dibromomethane	9.19	93	54183	49.280	ug/l	99
47) Bromodichloromethane	9.38	83	115072	50.365	ug/l	98
48) Methyl methacrylate	9.18	41	92566	51.100	ug/l	98
49) 1,4-Dioxane	9.18	88	23548	1093.665	ug/l	98
51) 4-Methyl-2-Pentanone	9.97	43	615156	265.702	ug/l	99
52) Toluene	10.14	92	196859	47.293	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	127992	48.769	ug/l	99
54) cis-1,3-Dichloropropene	9.82	75	135961	47.222	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	79754	49.803	ug/l	99
56) Ethyl methacrylate	10.42	69	130947	52.443	ug/l	99
57) 1,3-Dichloropropane	10.69	76	140658	50.617	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	310775	250.424	ug/l	99
59) 2-Hexanone	10.74	43	443537	265.946	ug/l	100
60) Dibromochloromethane	10.89	129	84073	50.826	ug/l	100
61) 1,2-Dibromoethane	10.99	107	79986	49.672	ug/l	100
64) Tetrachloroethene	10.62	164	73144	42.723	ug/l	99
65) Chlorobenzene	11.42	112	204496	47.413	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	76819	49.192	ug/l	98
67) Ethyl Benzene	11.50	91	384998	48.000	ug/l	100
68) m/p-Xylenes	11.61	106	277661	93.157	ug/l	97
69) o-Xylene	11.94	106	136100	47.833	ug/l	100
70) Styrene	11.96	104	227859	48.965	ug/l	99
71) Bromoform	12.12	173	60373	46.633	ug/l #	100
73) Isopropylbenzene	12.24	105	369408	47.533	ug/l	99
74) N-amyl acetate	12.06	43	178918	49.822	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	120754	51.380	ug/l	99
76) 1,2,3-Trichloropropane	12.54	75	99379m	44.473	ug/l	
77) Bromobenzene	12.52	156	87430	46.687	ug/l	99
78) n-propylbenzene	12.58	91	434646	47.338	ug/l	99
79) 2-Chlorotoluene	12.67	91	256481	46.752	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	307536	46.630	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.29	75	38056	43.740	ug/l	99
82) 4-Chlorotoluene	12.77	91	266763	47.743	ug/l	98
83) tert-Butylbenzene	12.99	119	259263	47.421	ug/l	99
84) 1,2,4-Trimethylbenzene	13.03	105	310579	47.601	ug/l	99
85) sec-Butylbenzene	13.17	105	355459	48.350	ug/l	99
86) p-Isopropyltoluene	13.28	119	314603	47.588	ug/l	99
87) 1,3-Dichlorobenzene	13.27	146	156661	47.432	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	156795	47.251	ug/l	99
89) n-Butylbenzene	13.61	91	290734	48.710	ug/l	99
90) Hexachloroethane	13.87	117	50067	52.101	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	152818	48.388	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.26	75	24509	49.788	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
Data File : VN061001.D
Acq On : 16 Apr 2020 6:36
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 54 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM

Quant Time: Apr 16 08:15:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	96615	49.816	ug/l	100
94) Hexachlorobutadiene	15.00	225	44330	46.626	ug/l	98
95) Naphthalene	15.13	128	288173	49.401	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	94246	49.336	ug/l	99

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

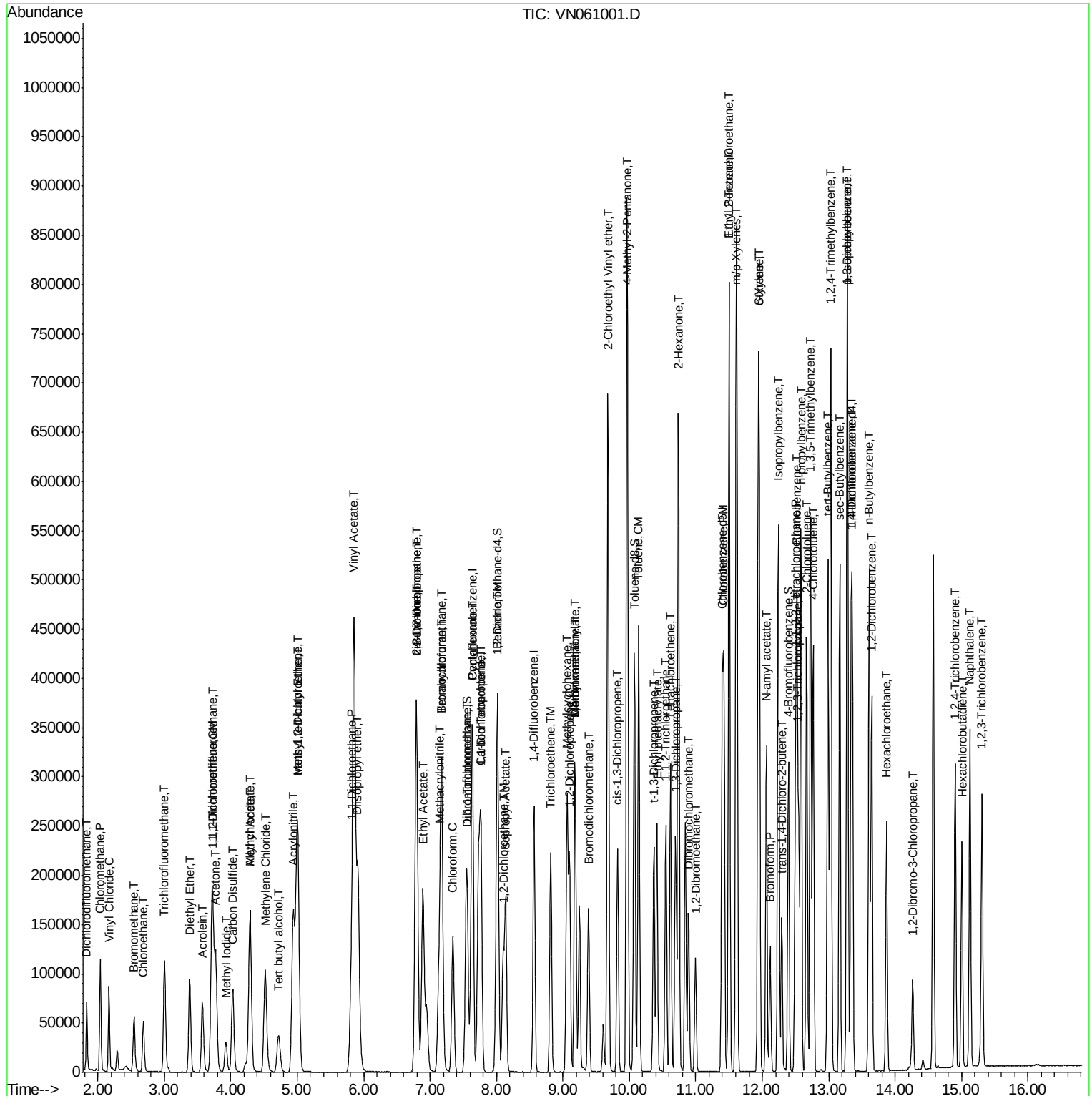
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
Data File : VN061001.D
Acq On : 16 Apr 2020 6:36
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 54 Sample Multiplier: 1

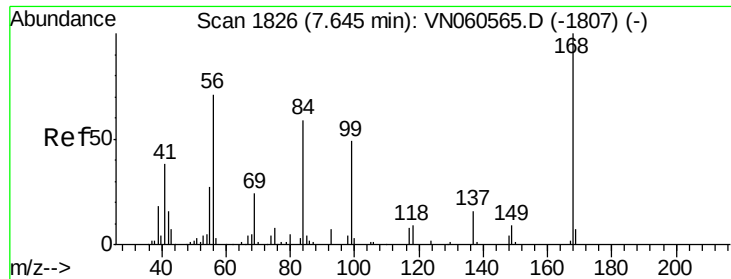
Instrument :
MSVOA_N
Client Sample Id :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM

Quant Time: Apr 16 08:15:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 136473

Ion Ratio Lower Upper

168 100

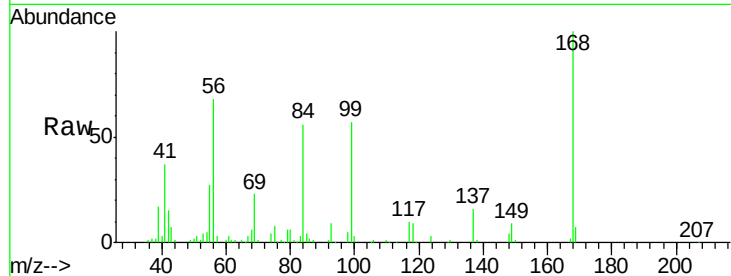
99 57.2 44.0 66.0

Manual Integrations

APPROVED

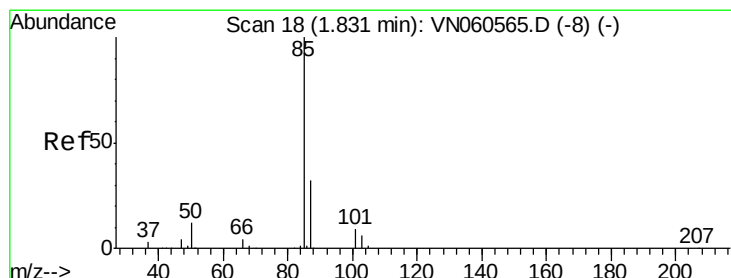
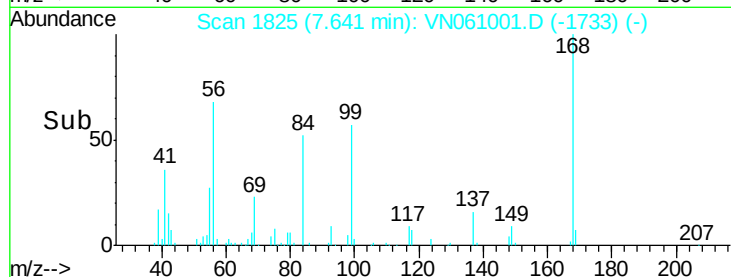
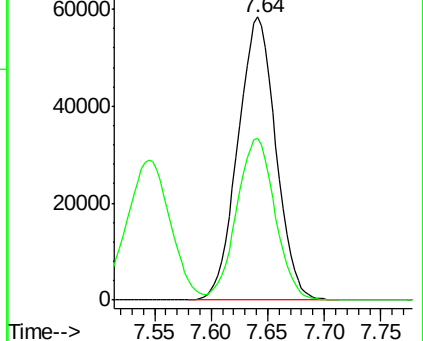
MMDadoda

4/16/2020 11:15:12 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 39.302 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN061001.D

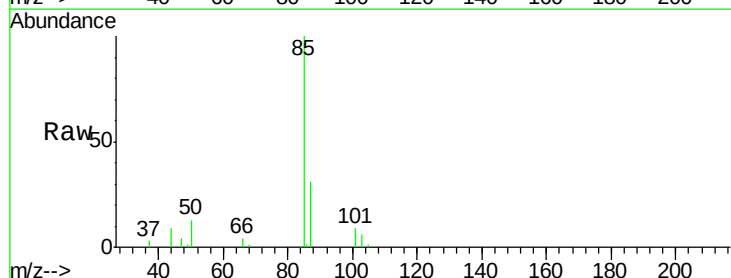
Acq: 16 Apr 2020 6:36

Tgt Ion: 85 Resp: 51898

Ion Ratio Lower Upper

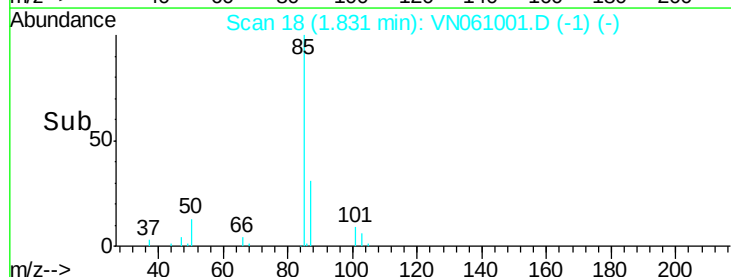
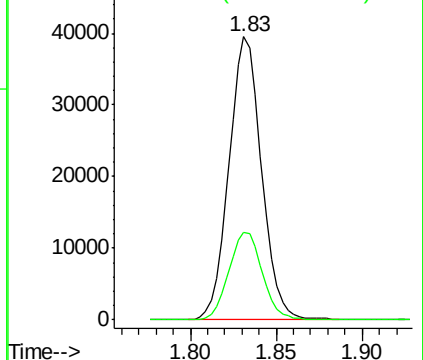
85 100

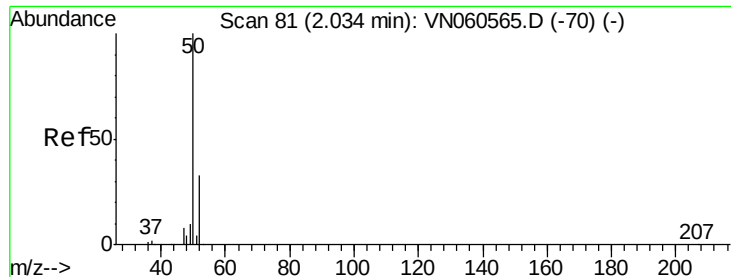
87 31.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 38.936 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 96026

Ion Ratio Lower Upper

50 100

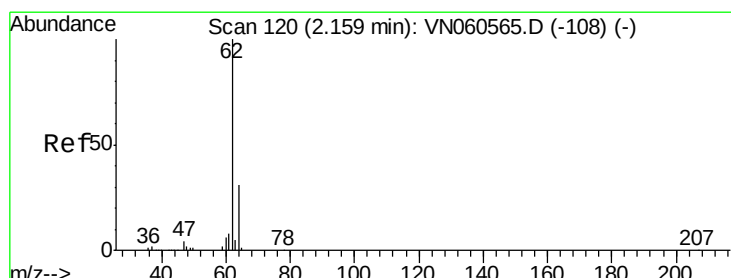
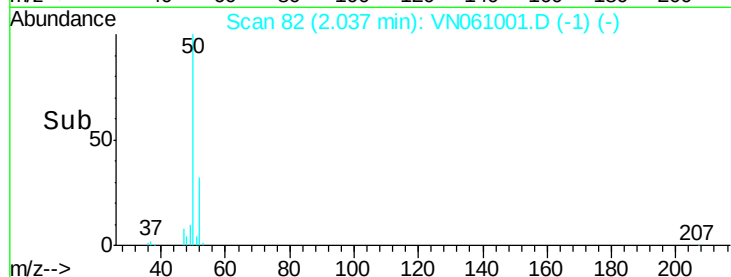
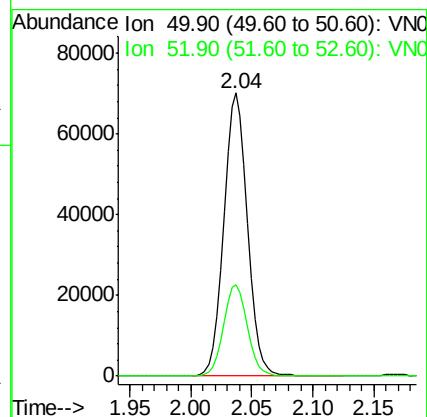
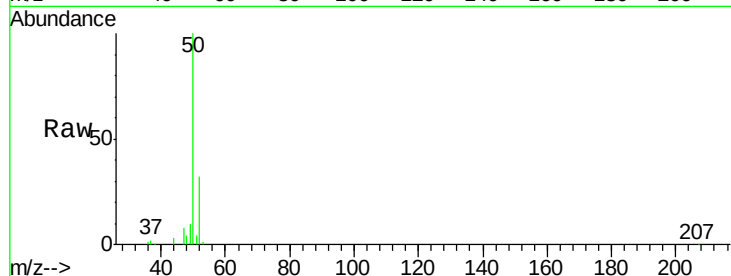
52 32.5 26.2 39.2

Manual Integrations

APPROVED

MMDadoda

4/16/2020 11:15:12 AM



#4

Vinyl Chloride

Concen: 40.362 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.01 min

Lab File: VN061001.D

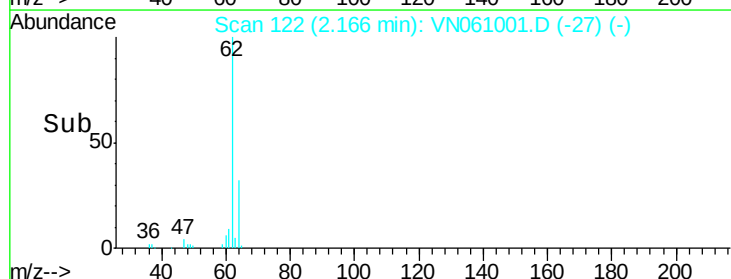
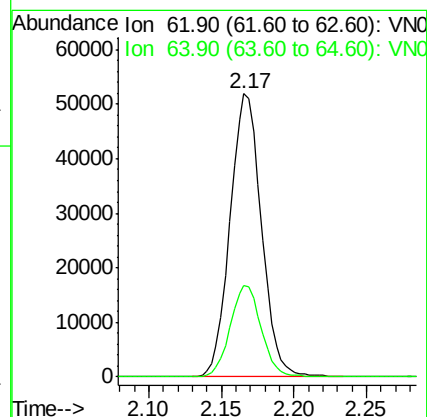
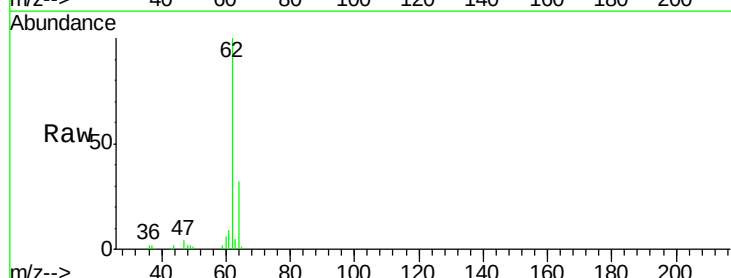
Acq: 16 Apr 2020 6:36

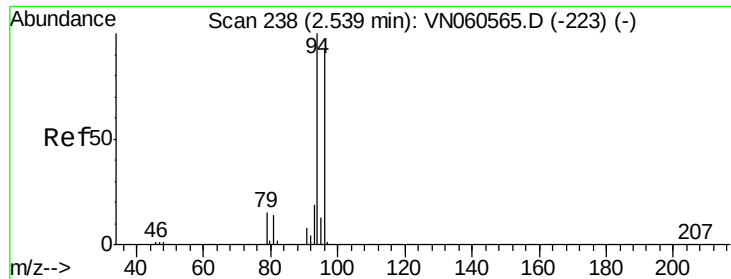
Tgt Ion: 62 Resp: 77859

Ion Ratio Lower Upper

62 100

64 32.4 24.7 37.1





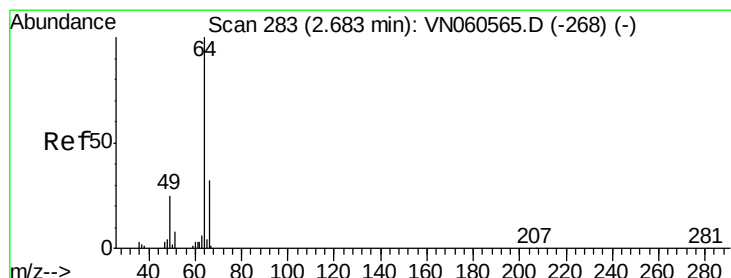
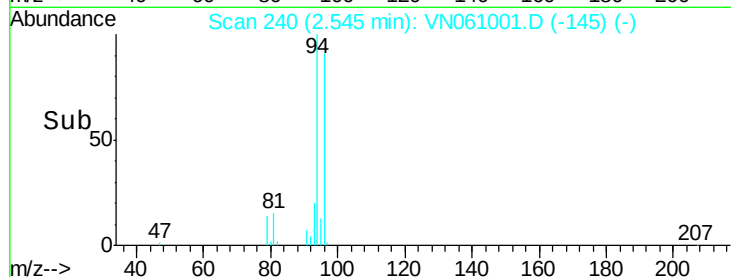
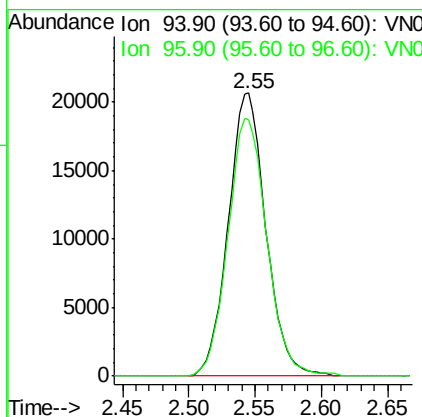
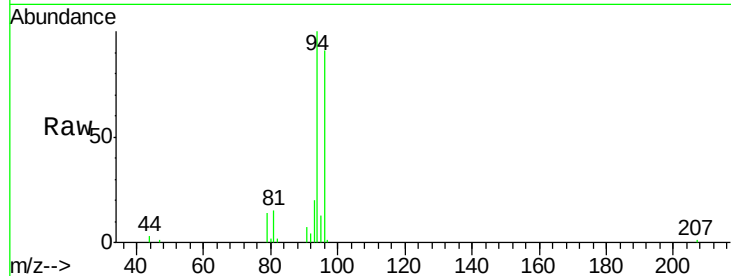
#5
Bromomethane
Concen: 48.945 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.01 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	94	Resp	40757
Ion Ratio	Lower	Upper	
94	100		
96	90.8	74.6	112.0

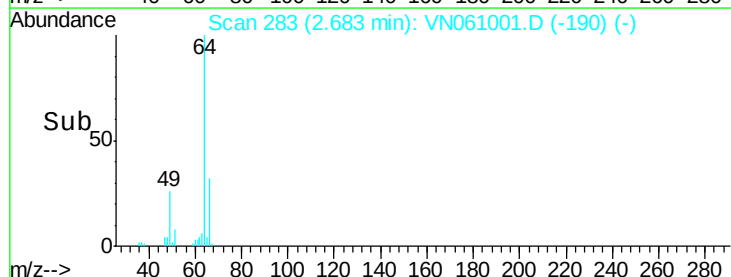
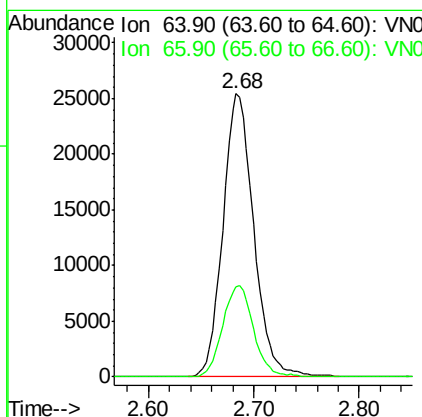
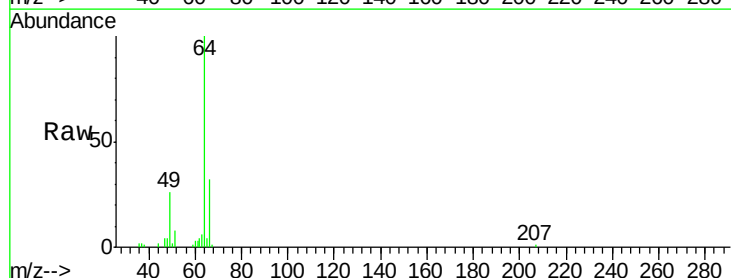
Manual Integrations
APPROVED

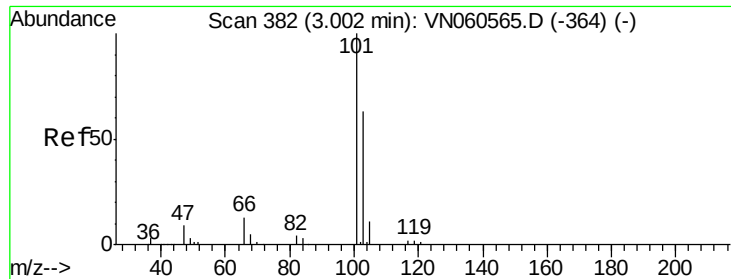
MMDadoda
4/16/2020 11:15:12 AM



#6
Chloroethane
Concen: 46.172 ug/l
RT: 2.68 min Scan# 283
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	64	Resp	51306
Ion Ratio	Lower	Upper	
64	100		
66	31.9	25.3	37.9





#7

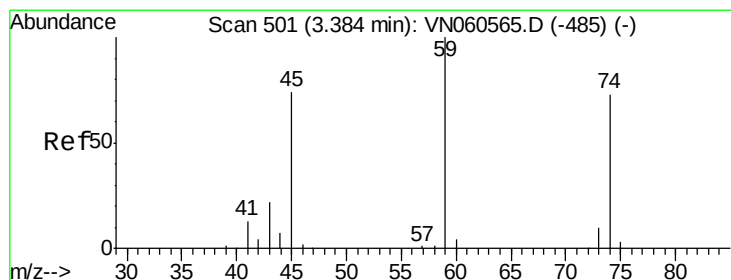
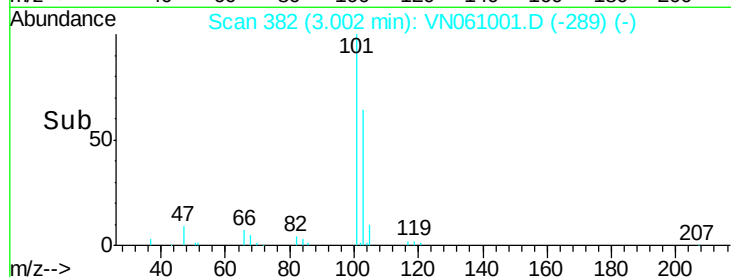
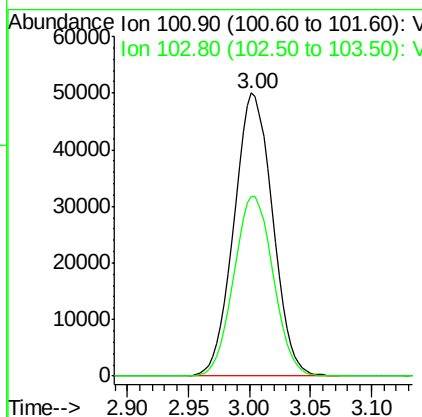
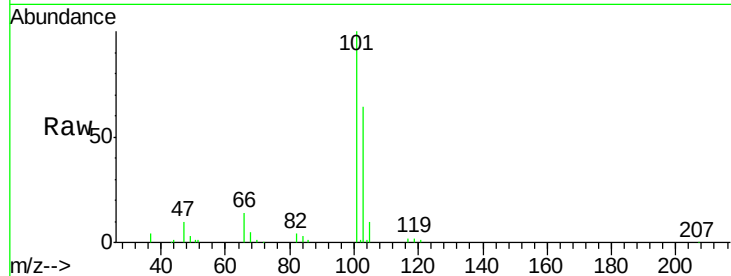
Trichlorofluoromethane
Concen: 46.169 ug/l
RT: 3.00 min Scan# 382
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.6	76.0

Manual Integrations
APPROVED

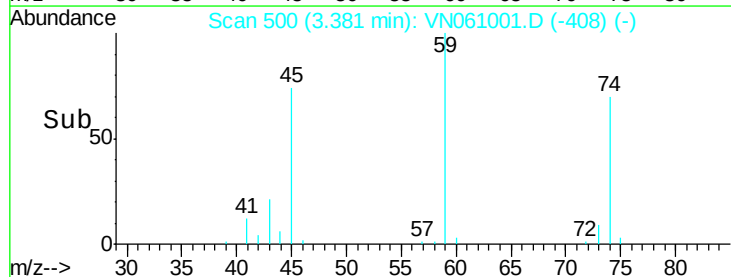
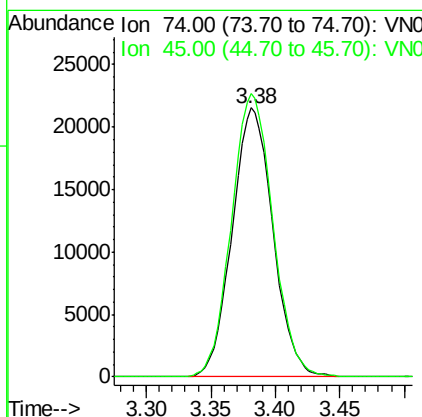
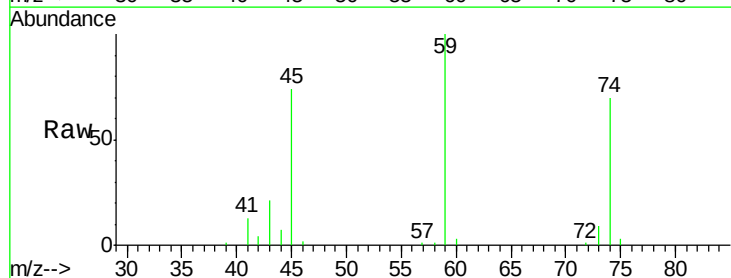
MMDadoda
4/16/2020 11:15:12 AM

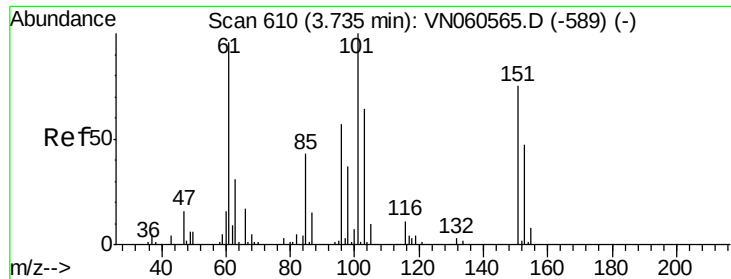


#8

Diethyl Ether
Concen: 49.669 ug/l
RT: 3.38 min Scan# 500
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.9	51.3	153.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.230 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

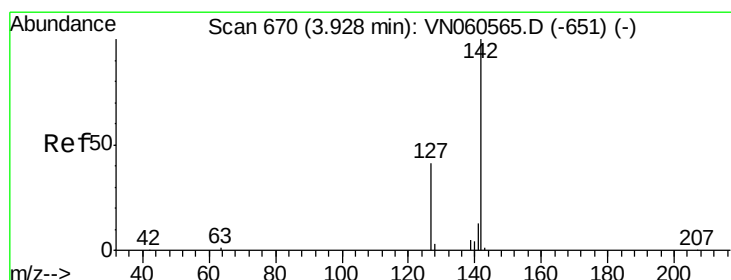
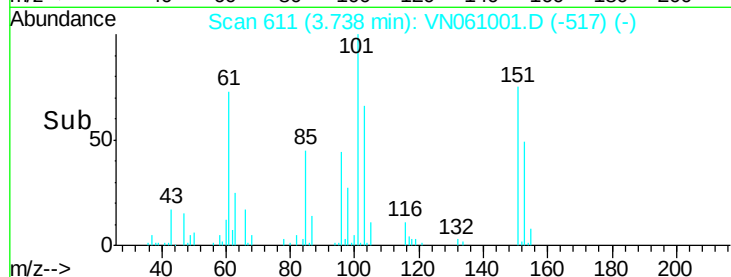
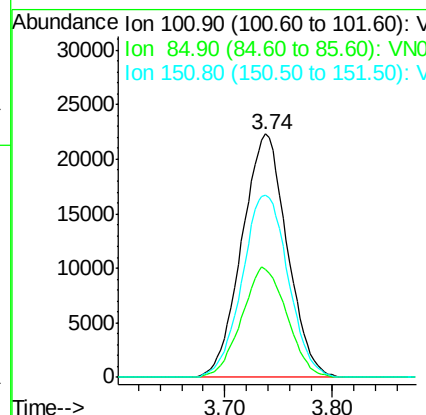
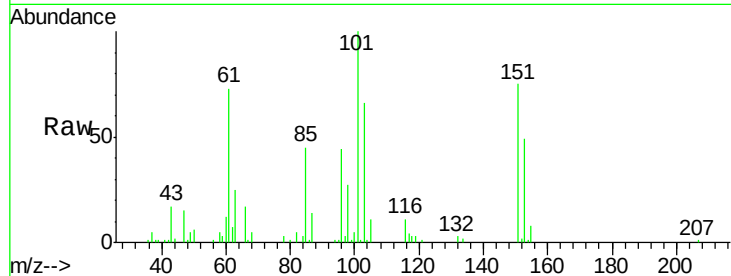
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	65031
Ion Ratio	Lower	Upper	
101	100		
85	45.1	35.6	53.4
151	76.1	61.4	92.2

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM



#10

Methyl Iodide

Concen: 40.106 ug/l

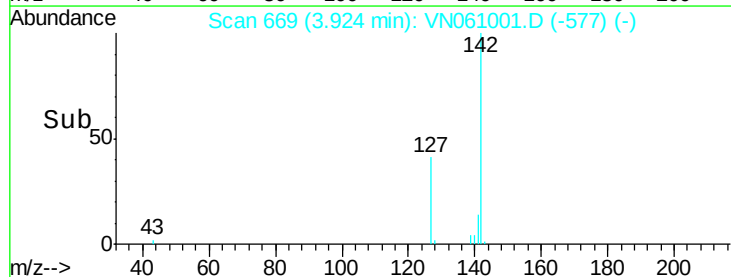
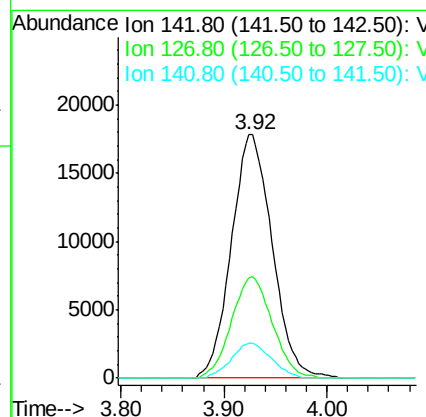
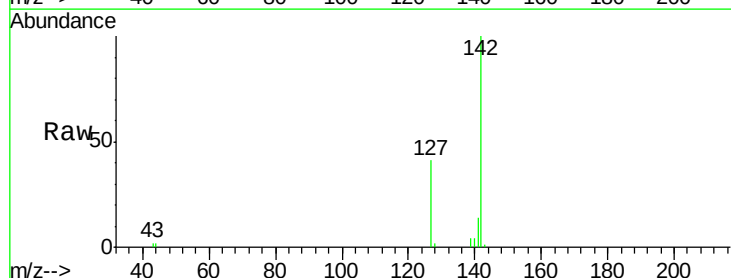
RT: 3.92 min Scan# 669

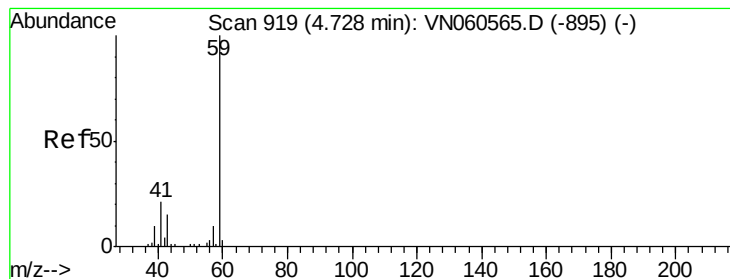
Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Tgt Ion:	142	Resp:	49138
Ion Ratio	Lower	Upper	
142	100		
127	41.5	33.5	50.3
141	14.2	11.0	16.6





#11

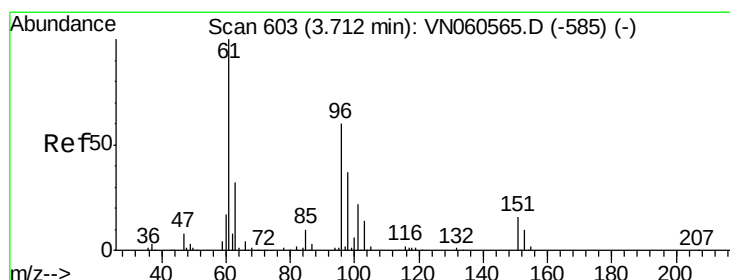
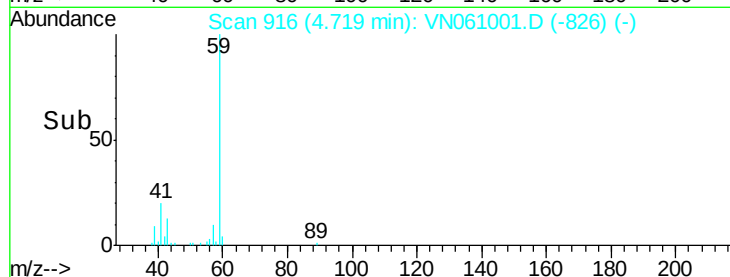
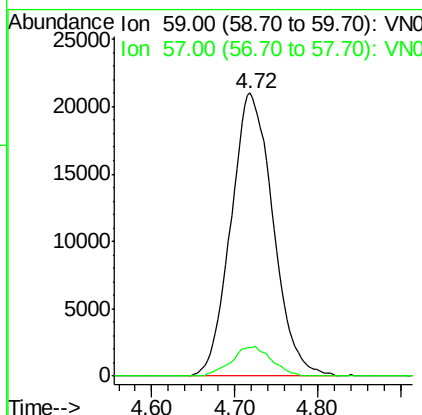
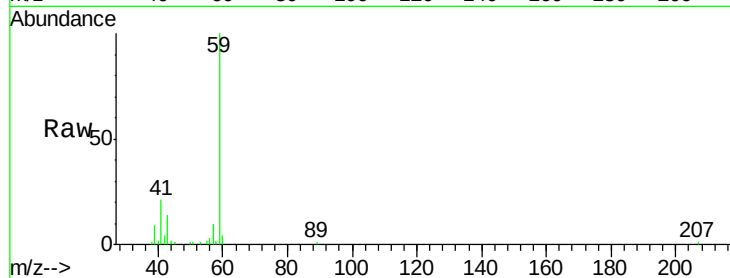
Tert butyl alcohol
Concen: 268.968 ug/l
RT: 4.72 min Scan# 916
Delta R.T. -0.01 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.2	12.4

Manual Integrations
APPROVED

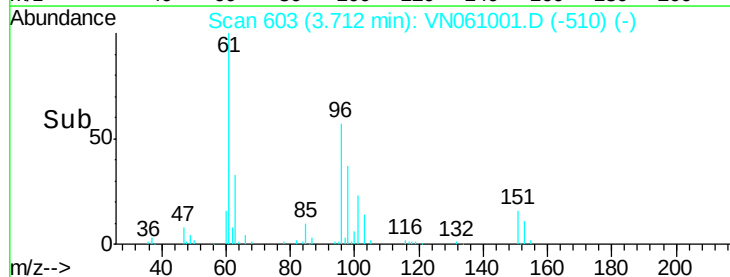
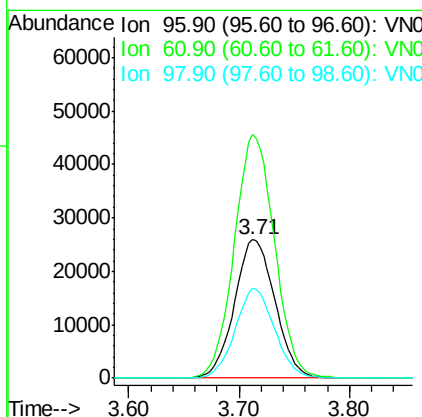
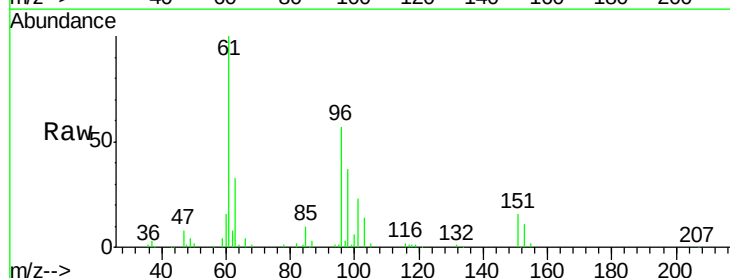
MMDadoda
4/16/2020 11:15:12 AM

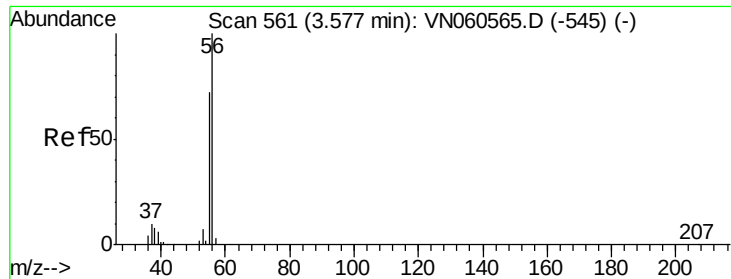


#12

1,1-Dichloroethene
Concen: 44.715 ug/l
RT: 3.71 min Scan# 603
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	175.7	134.1	201.1
98	64.6	49.9	74.9





#13

Acrolein

Concen: 268.006 ug/l

RT: 3.57 min Scan# 559

Delta R.T. -0.01 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 81840

Ion Ratio Lower Upper

56 100

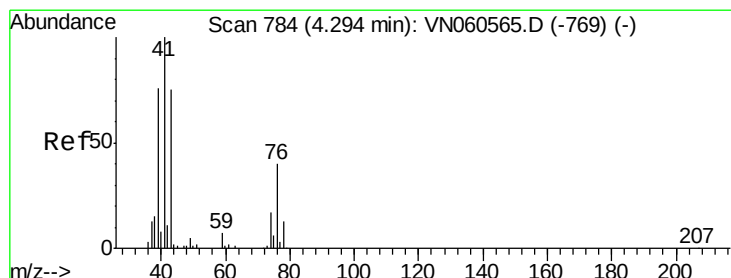
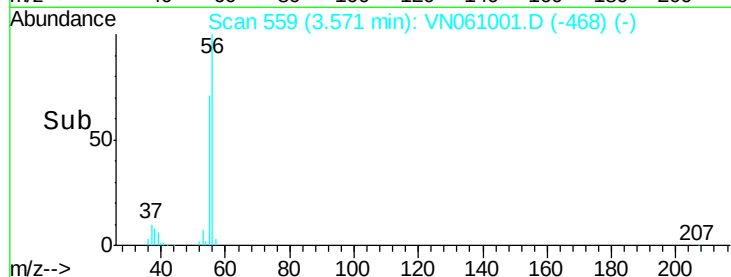
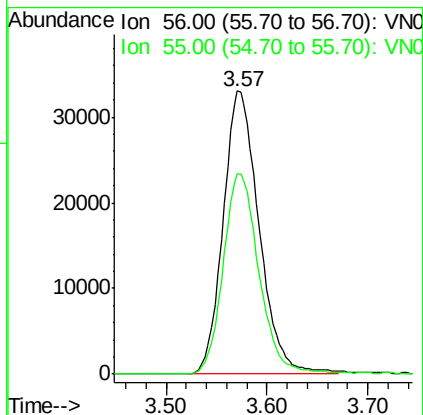
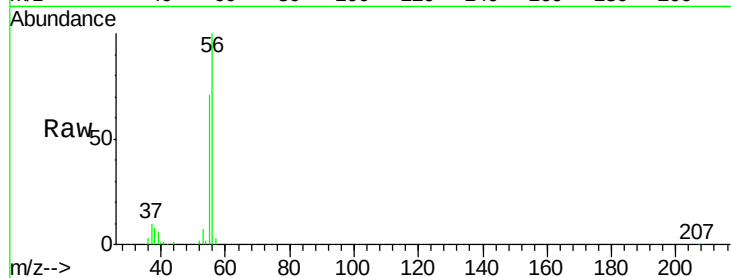
55 70.4 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

4/16/2020 11:15:12 AM



#14

Allyl chloride

Concen: 46.353 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

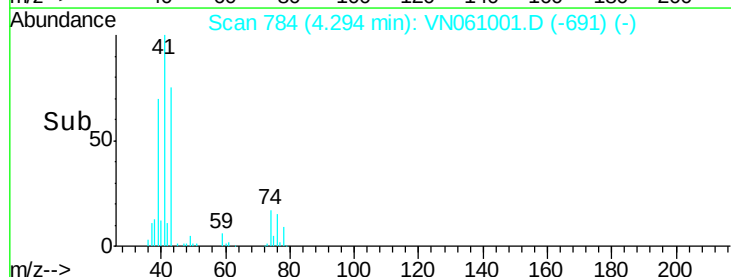
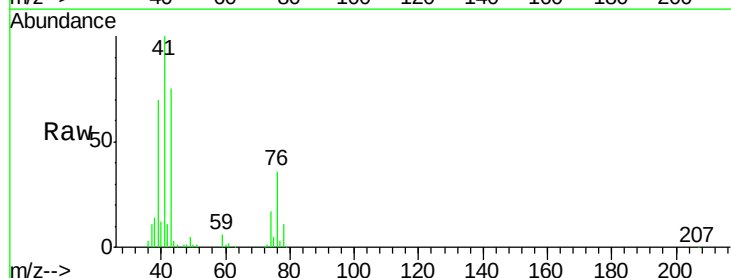
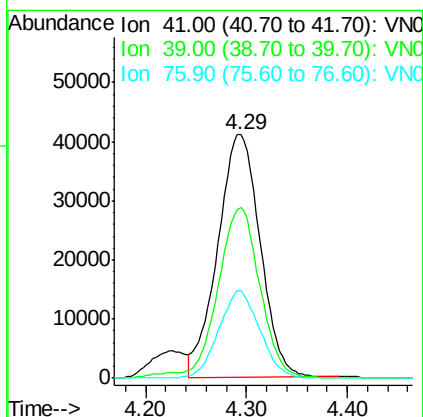
Tgt Ion: 41 Resp: 120460

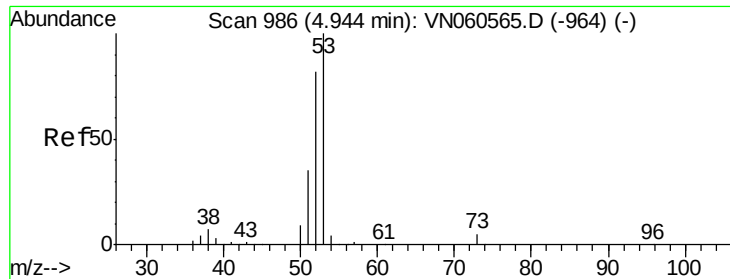
Ion Ratio Lower Upper

41 100

39 70.3 57.8 86.8

76 34.6 28.6 43.0





#15

Acrylonitrile

Concen: 267.621 ug/l

RT: 4.94 min Scan# 985

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

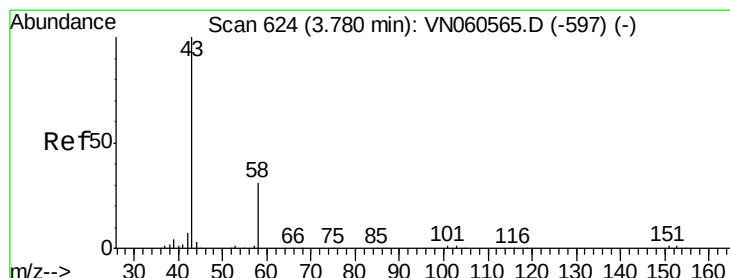
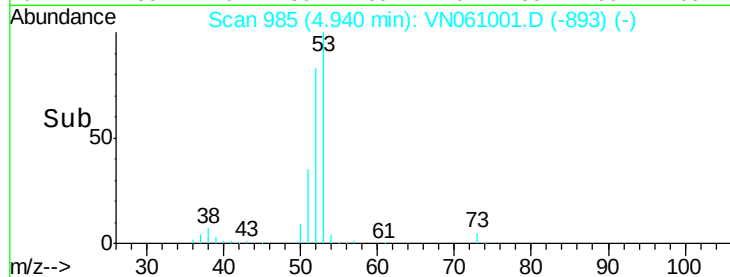
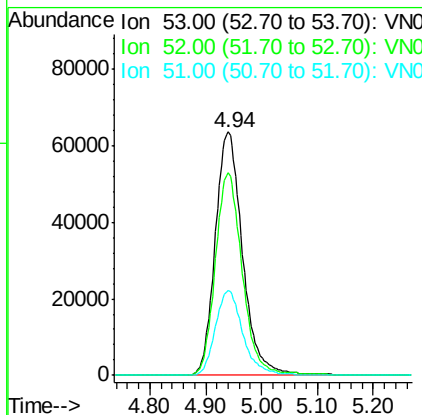
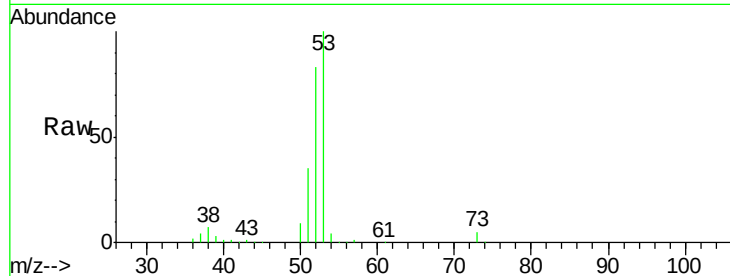
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	216830
Ion Ratio		Lower	Upper
53	100		
52	81.9	66.2	99.4
51	35.3	28.7	43.1

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM



#16

Acetone

Concen: 263.098 ug/l

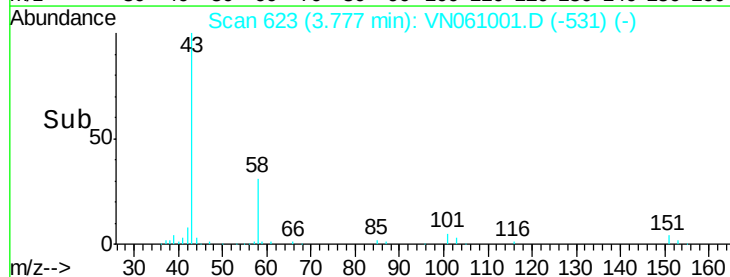
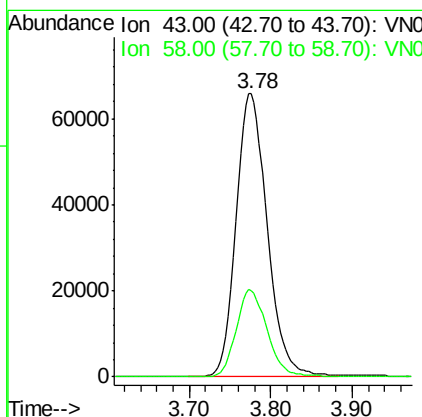
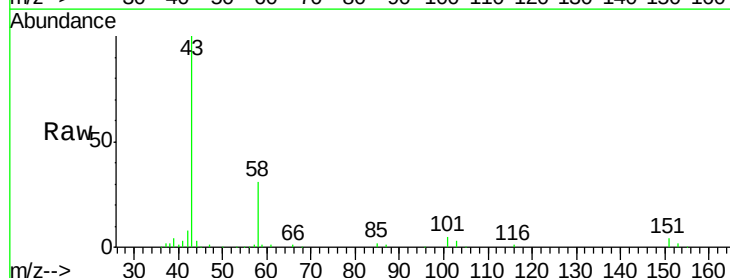
RT: 3.78 min Scan# 623

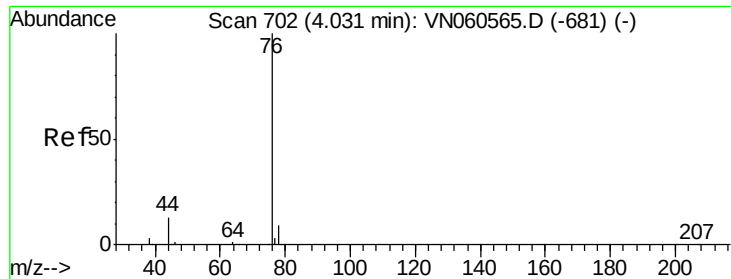
Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Tgt Ion:	43	Resp:	174597
Ion Ratio		Lower	Upper
43	100		
58	30.6	25.1	37.7





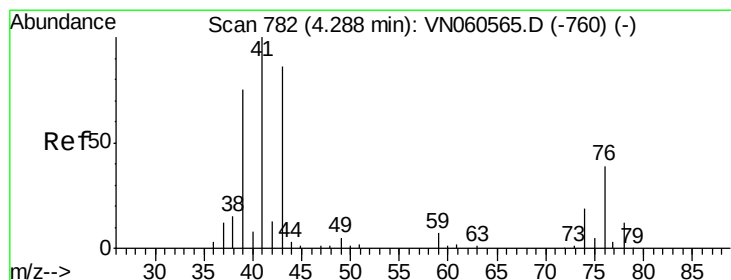
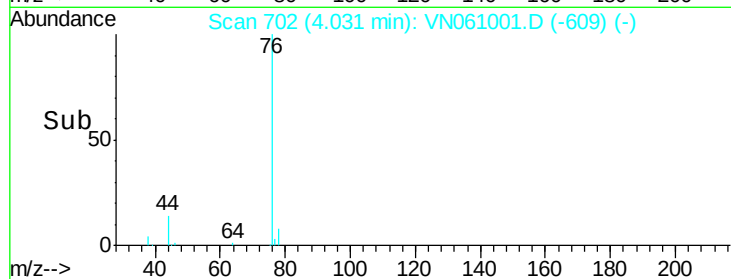
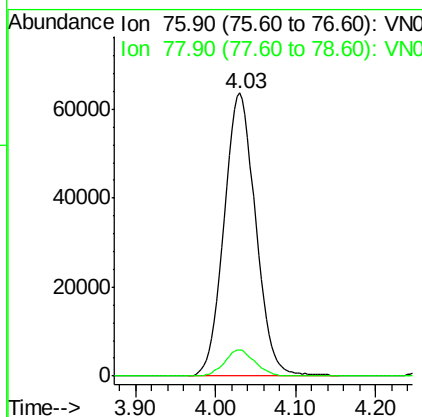
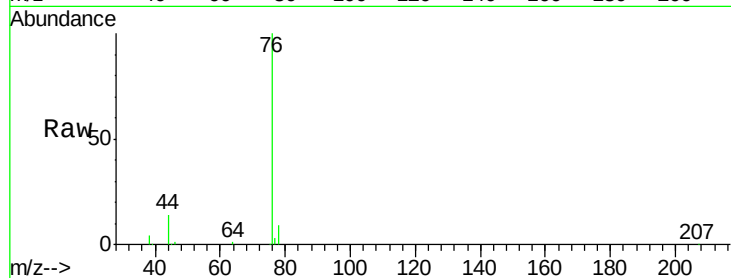
#17
Carbon Disulfide
Concen: 38.198 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8

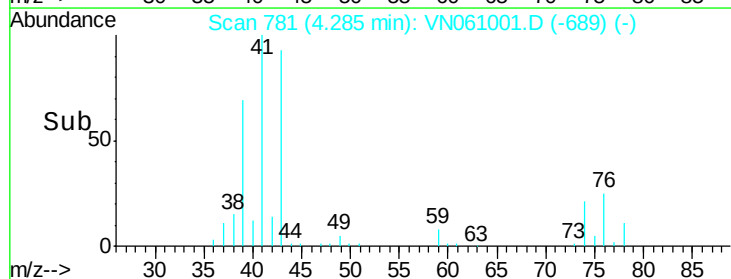
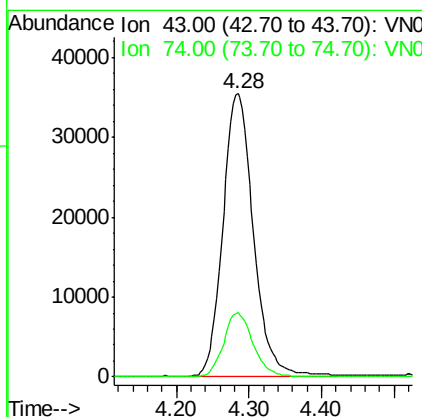
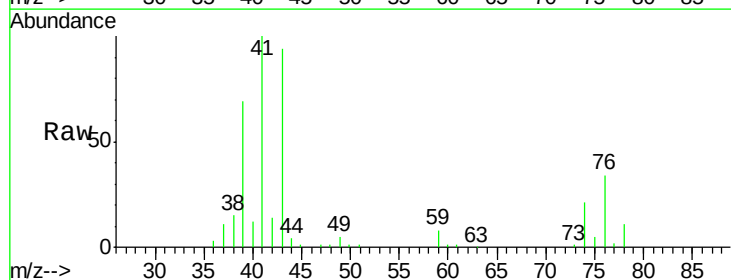
Manual Integrations
APPROVED

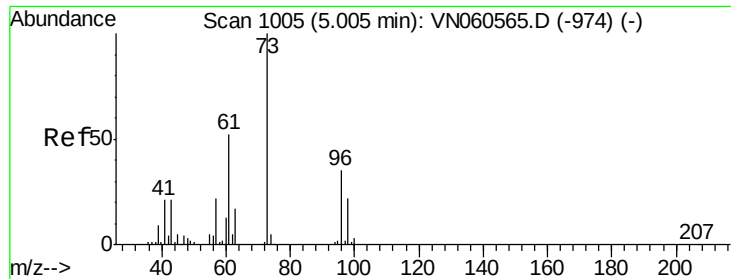
MMDadoda
4/16/2020 11:15:12 AM



#18
Methyl Acetate
Concen: 55.717 ug/l
RT: 4.28 min Scan# 781
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.7	17.5	26.3





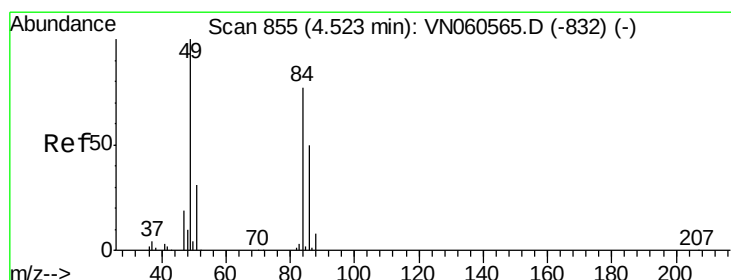
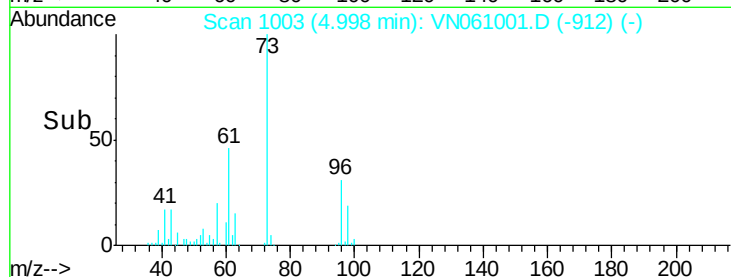
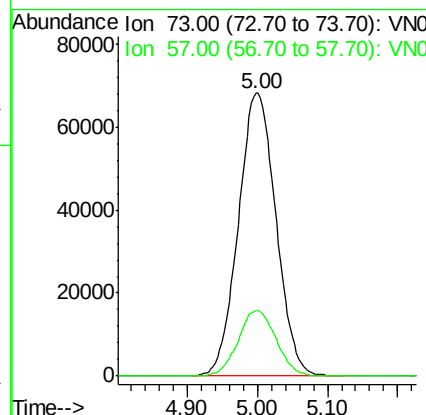
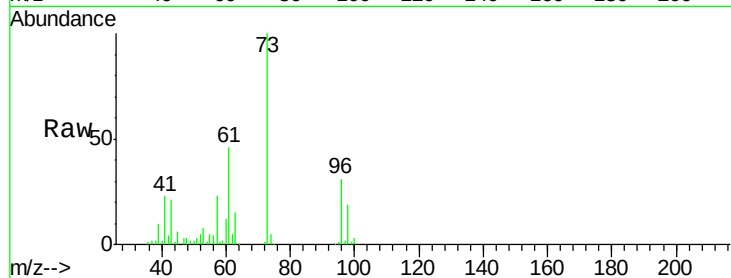
#19
Methyl tert-butyl Ether
Concen: 49.990 ug/l
RT: 5.00 min Scan# 1003
Delta R.T. -0.01 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 253953
Ion Ratio Lower Upper
73 100
57 23.1 17.5 26.3

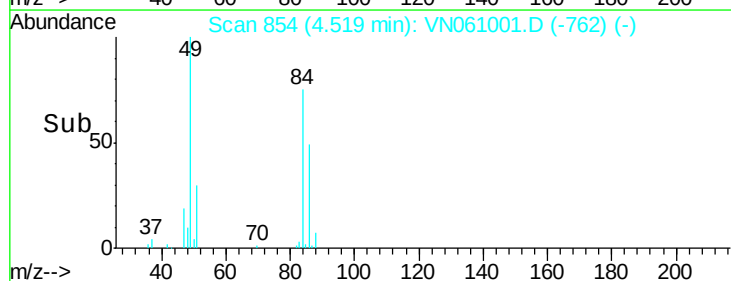
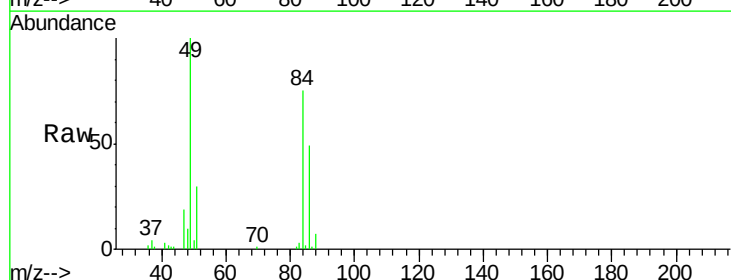
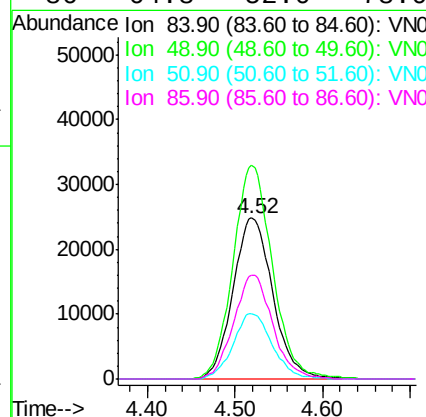
Manual Integrations
APPROVED

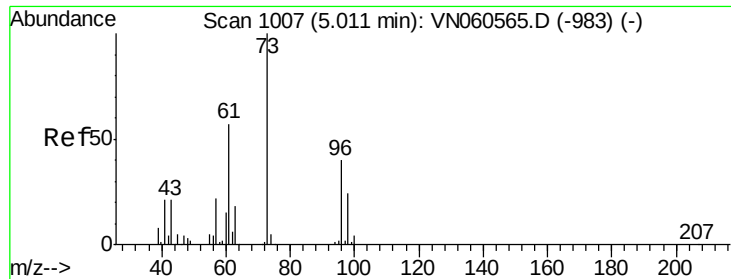
MMDadoda
4/16/2020 11:15:12 AM



#20
Methylene Chloride
Concen: 48.114 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion: 84 Resp: 78545
Ion Ratio Lower Upper
84 100
49 132.8 103.3 154.9
51 40.4 31.6 47.4
86 64.8 52.0 78.0





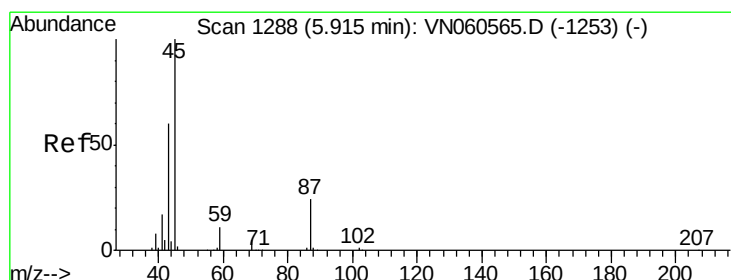
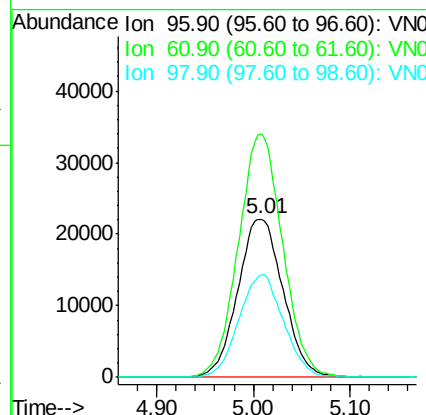
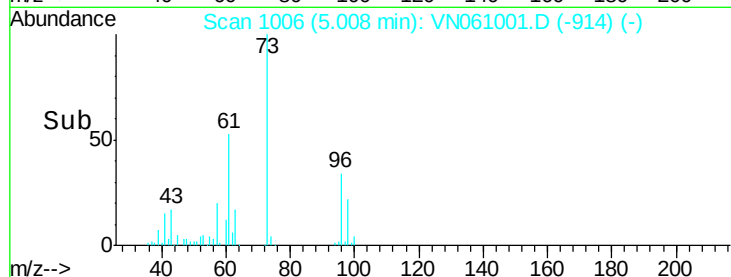
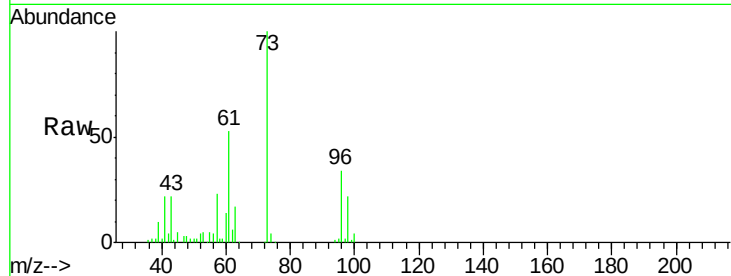
#21
trans-1,2-Dichloroethene
Concen: 45.621 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.3	114.4	171.6
98	65.1	48.4	72.6

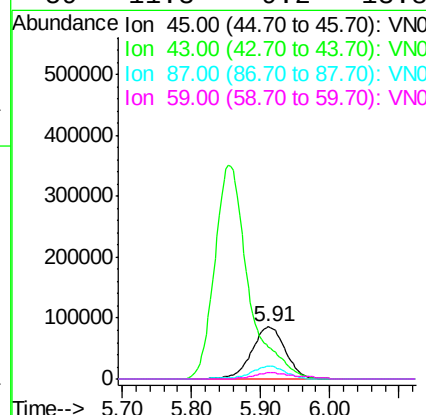
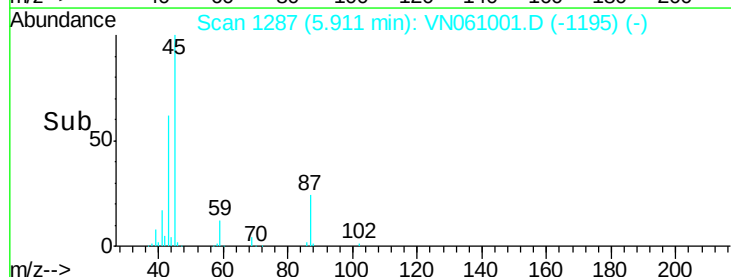
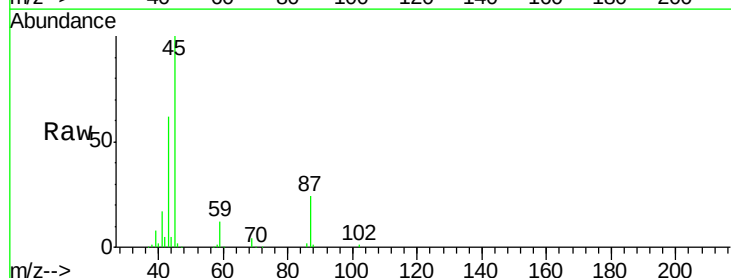
Manual Integrations
APPROVED

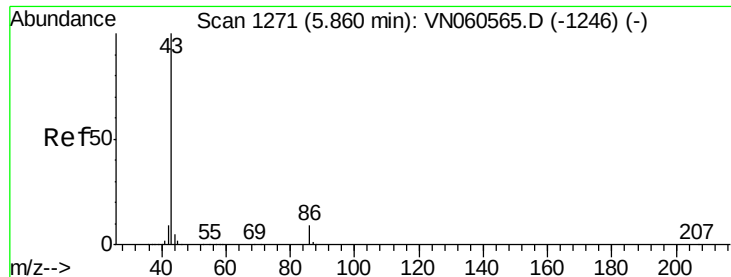
MMDadoda
4/16/2020 11:15:12 AM



#22
Diisopropyl ether
Concen: 52.828 ug/l
RT: 5.91 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.4	49.8	74.8
87	24.5	20.1	30.1
59	11.3	9.2	13.8





#23

Vinyl Acetate

Concen: 265.240 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1188184

Ion Ratio Lower Upper

43 100

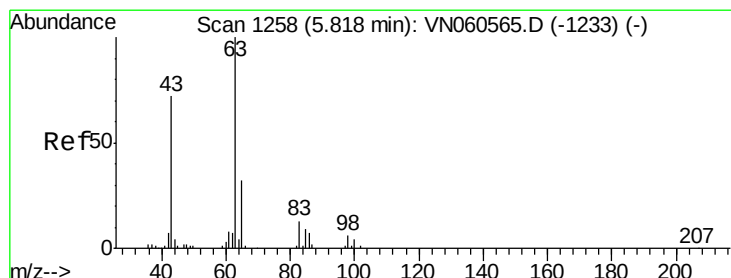
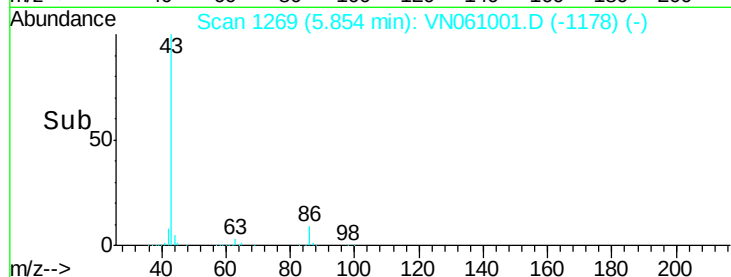
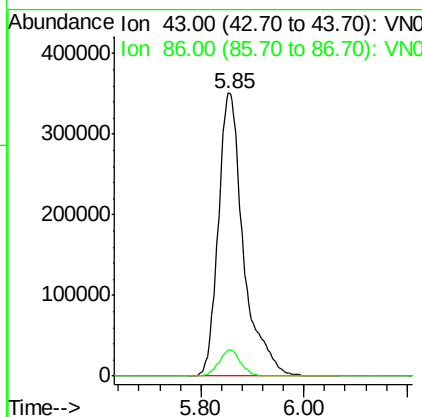
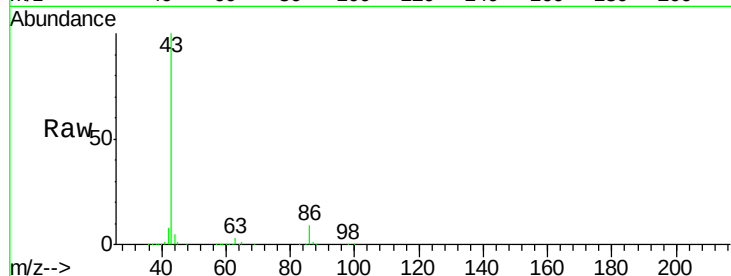
86 9.1 7.6 11.4

Manual Integrations

APPROVED

MMDadoda

4/16/2020 11:15:12 AM



#24

1,1-Dichloroethane

Concen: 50.952 ug/l

RT: 5.82 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

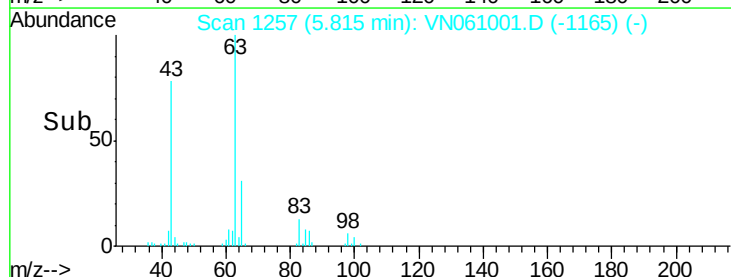
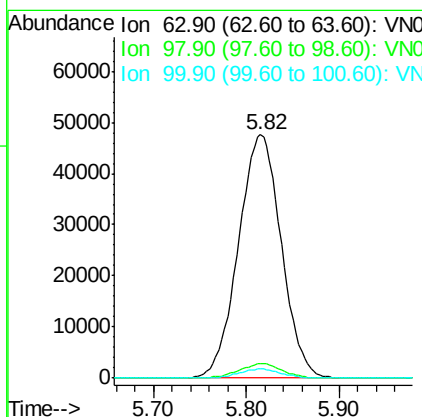
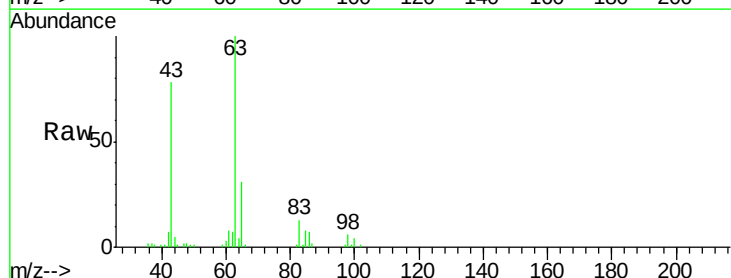
Tgt Ion: 63 Resp: 152501

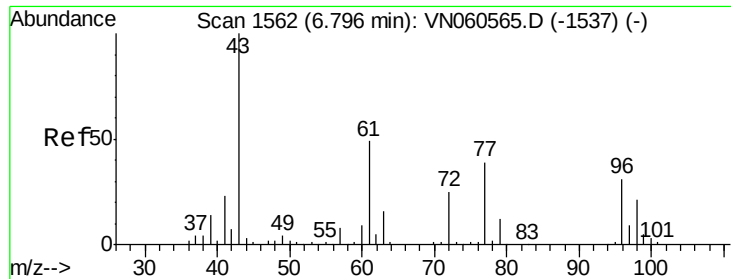
Ion Ratio Lower Upper

63 100

98 6.1 2.9 8.7

100 3.8 1.8 5.5





#25

2-Butanone

Concen: 268.774 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 288623

Ion Ratio Lower Upper

43 100

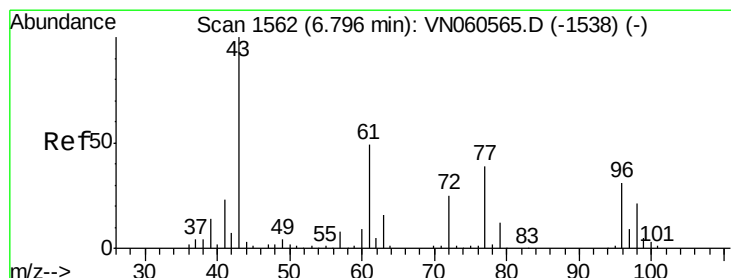
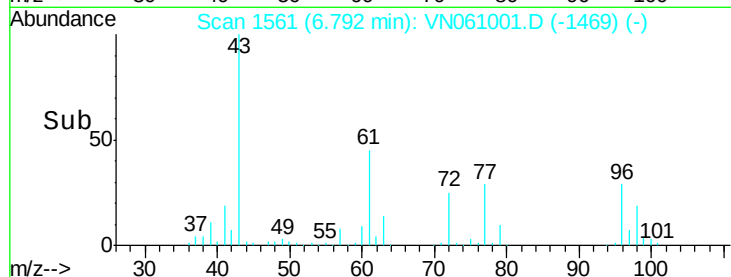
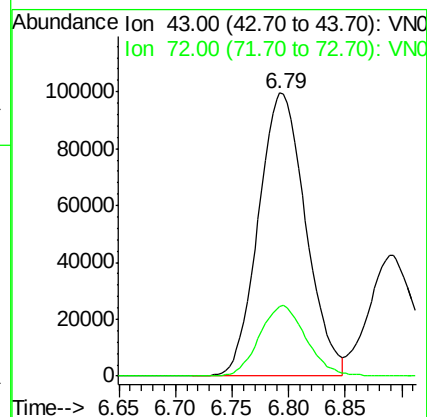
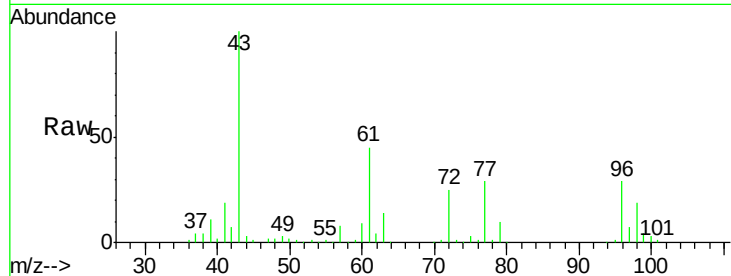
72 24.7 20.4 30.6

Manual Integrations

APPROVED

MMDadoda

4/16/2020 11:15:12 AM



#26

2,2-Dichloropropane

Concen: 39.183 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN061001.D

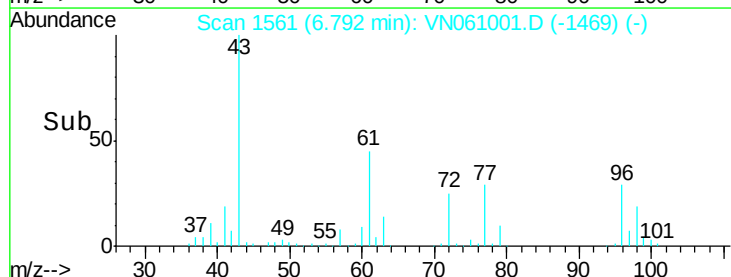
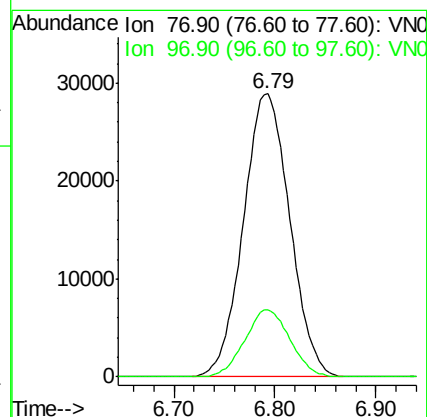
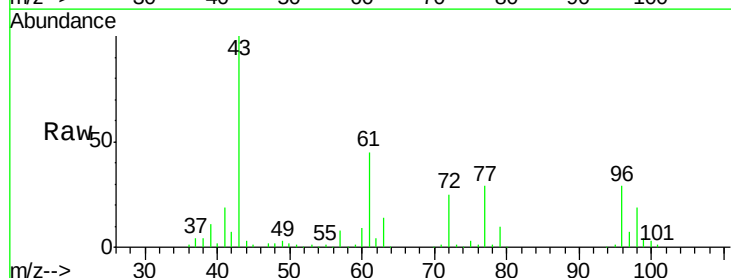
Acq: 16 Apr 2020 6:36

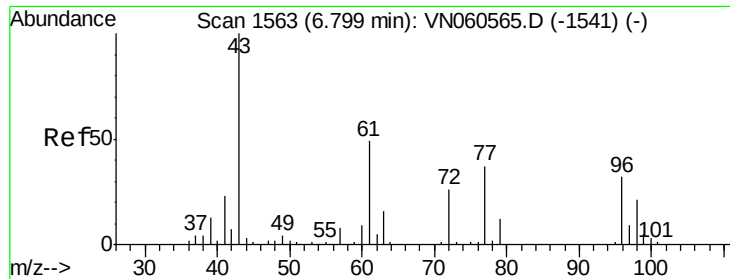
Tgt Ion: 77 Resp: 92273

Ion Ratio Lower Upper

77 100

97 23.1 11.4 34.1





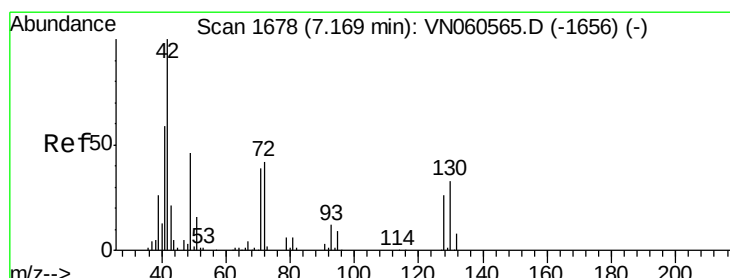
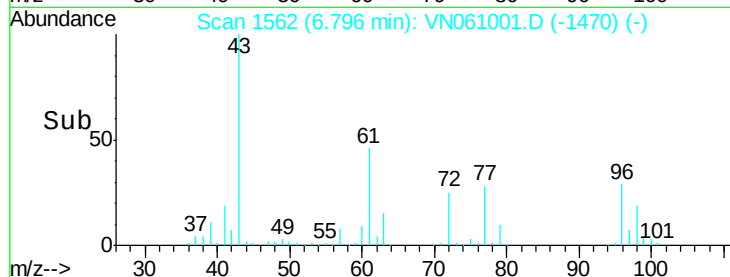
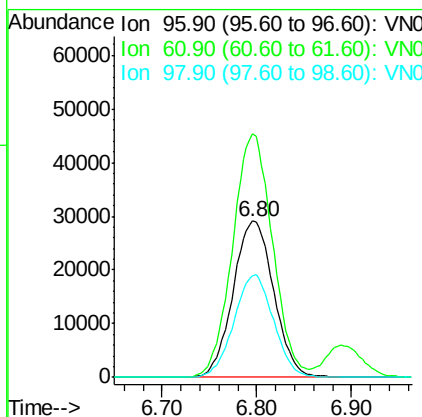
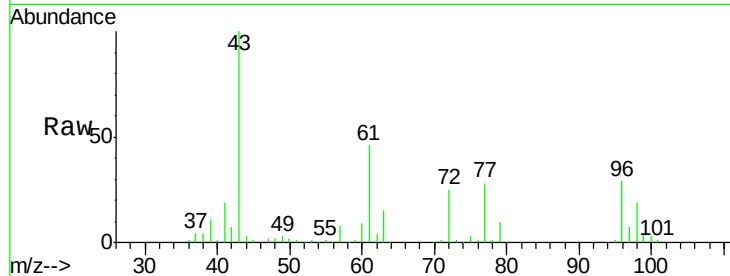
#27
 cis-1,2-Dichloroethene
 Concen: 48.549 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	153.1	0.0	305.6	
98	64.0	0.0	127.6	

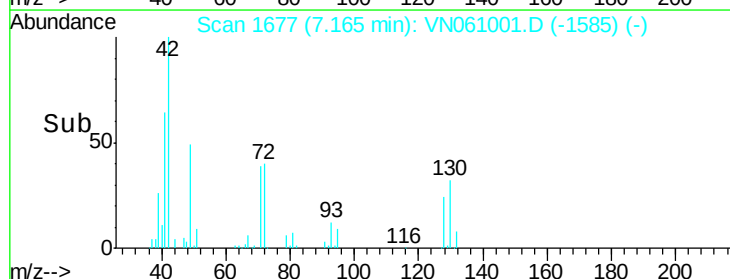
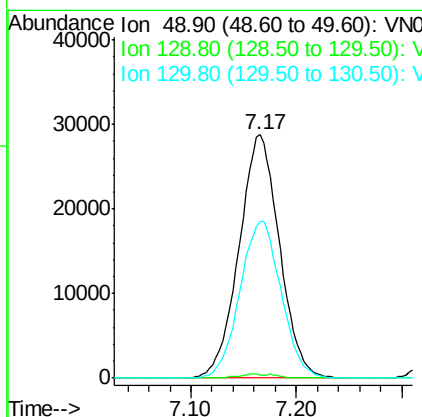
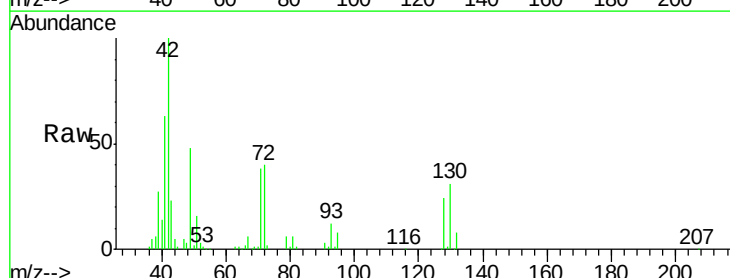
Manual Integrations
 APPROVED

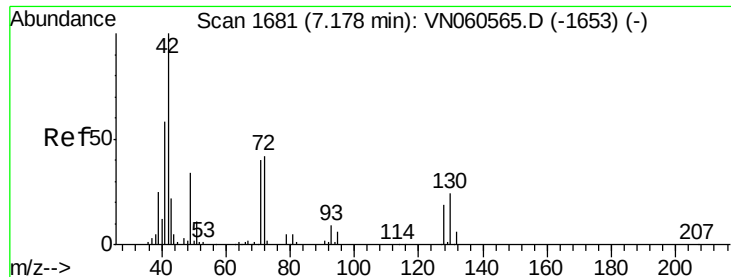
MMDadoda
 4/16/2020 11:15:12 AM



#28
 Bromochloromethane
 Concen: 53.584 ug/l
 RT: 7.17 min Scan# 1677
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	0.9	0.0	3.4	
130	65.5	55.0	82.4	





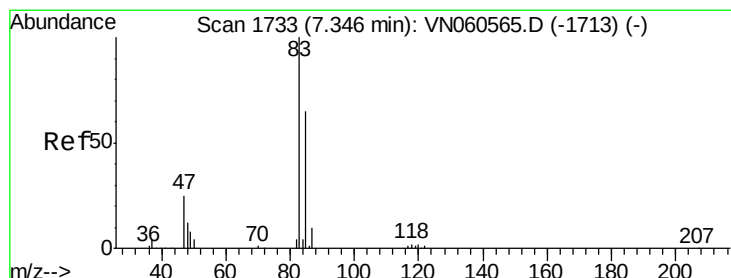
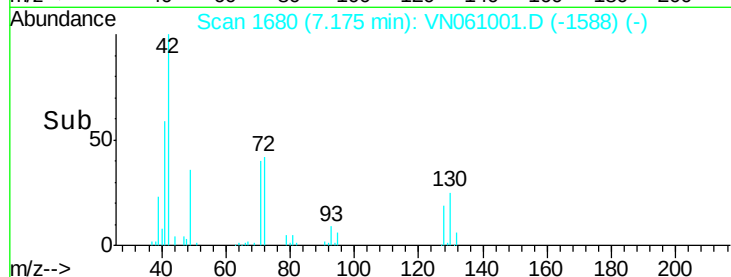
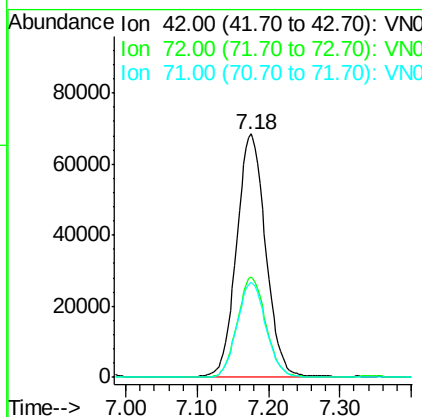
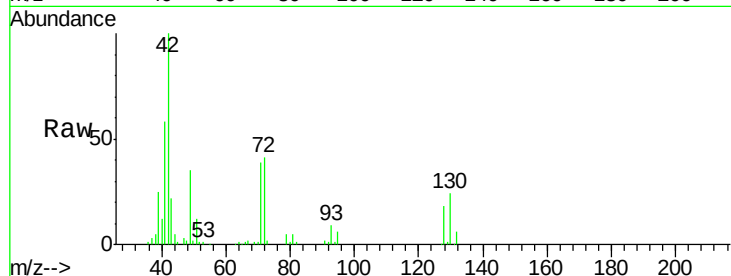
#29
Tetrahydrofuran
Concen: 256.955 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.5	33.2	49.8
71	38.4	31.1	46.7

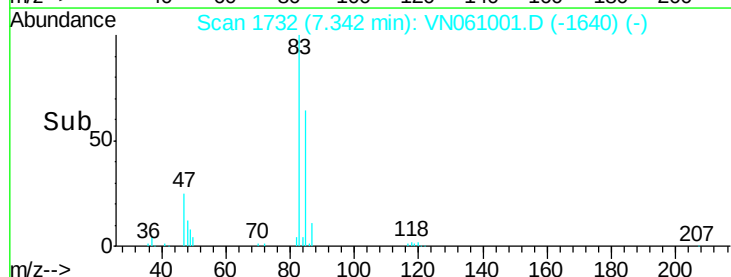
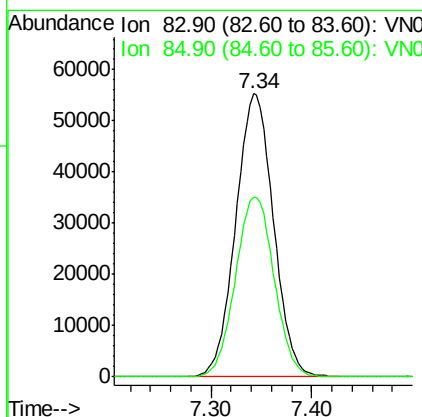
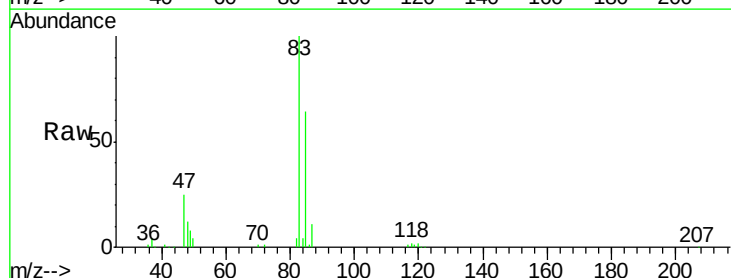
Manual Integrations
APPROVED

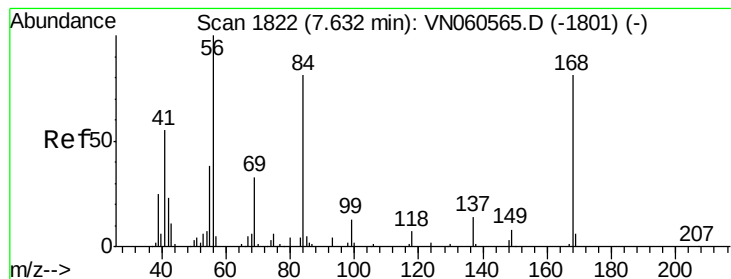
MMDadoda
4/16/2020 11:15:12 AM



#30
Chloroform
Concen: 49.984 ug/l
RT: 7.34 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.8	77.8





#31

Cyclohexane

Concen: 43.765 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

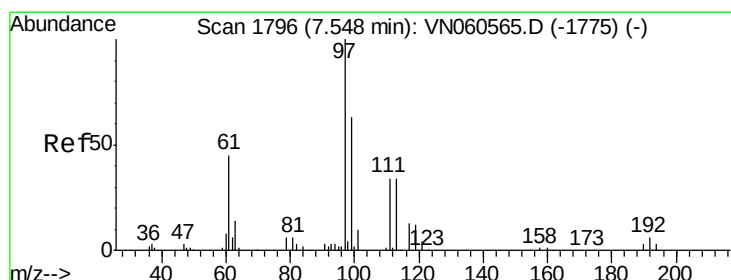
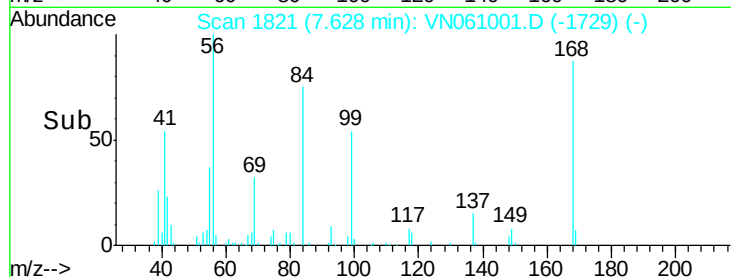
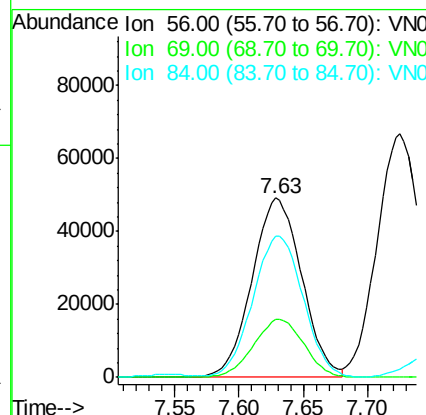
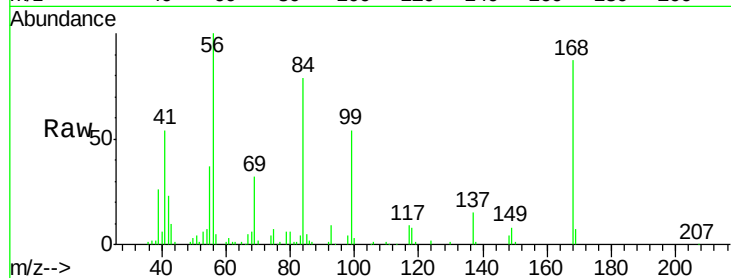
VSTDCCC050EC

Tot Ion: 56 Resp: 132059

Ion	Ratio	Lower	Upper
56	100		
69	32.1	26.6	40.0
84	77.9	64.3	96.5

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM



#32

1,1,1-Trichloroethane

Concen: 49.587 ug/l

RT: 7.54 min Scan# 1795

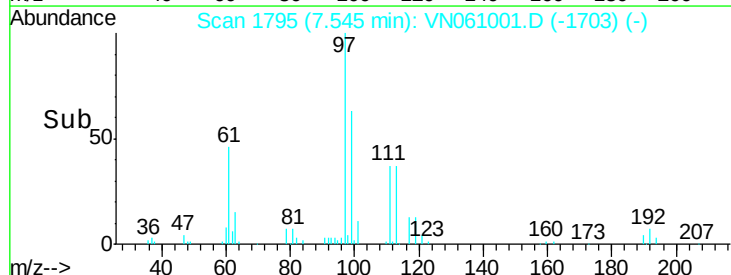
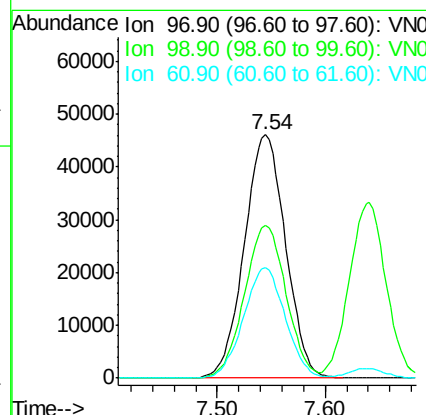
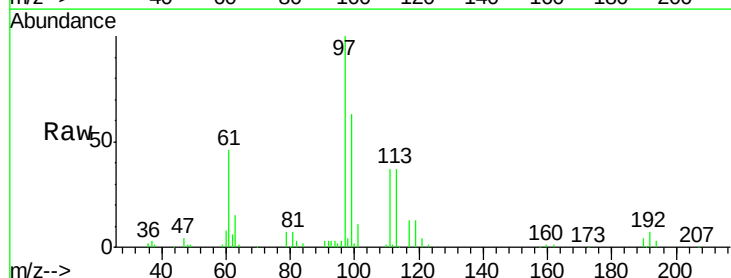
Delta R.T. -0.00 min

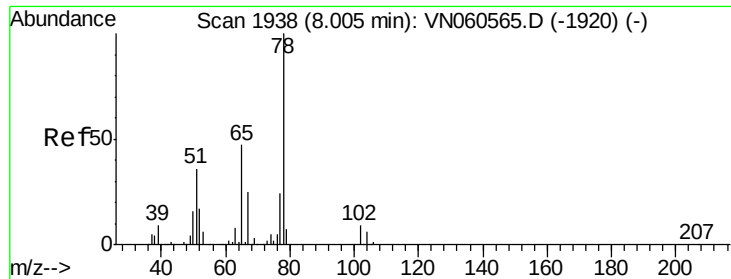
Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Tgt Ion: 97 Resp: 122656

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	75.8
61	45.9	36.2	54.4





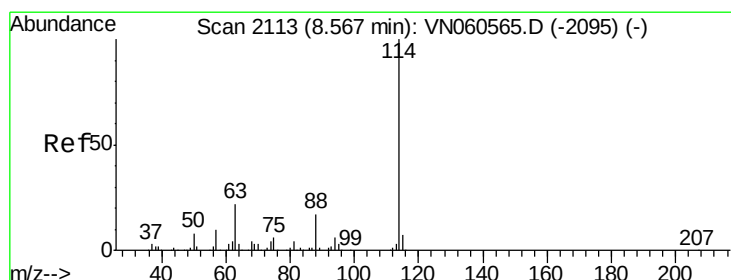
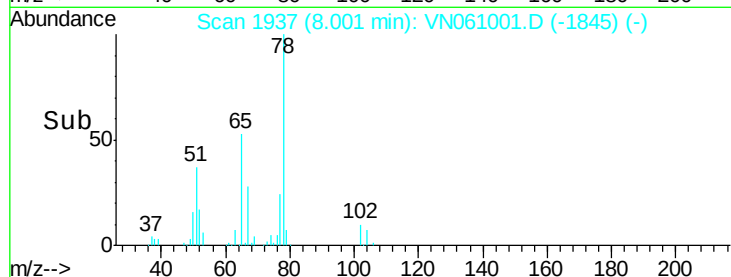
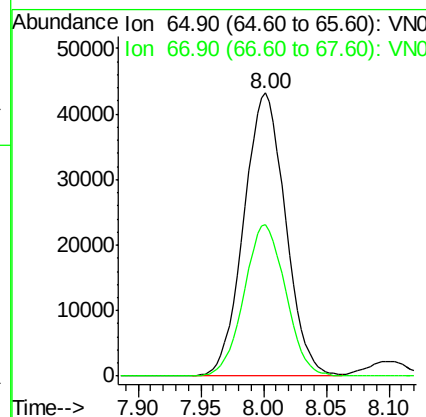
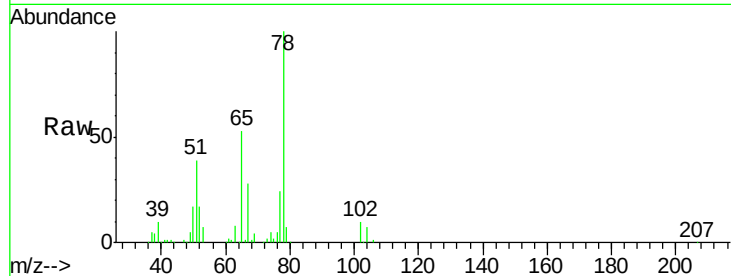
#33
 1,2-Dichloroethane-d4
 Concen: 53.401 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	100045		
67	53.3	0.0	107.6	

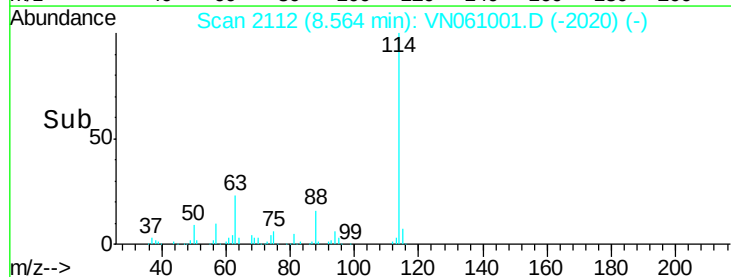
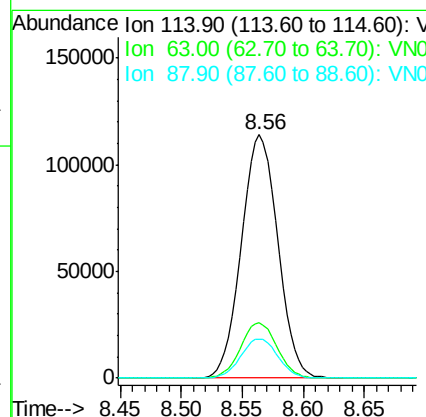
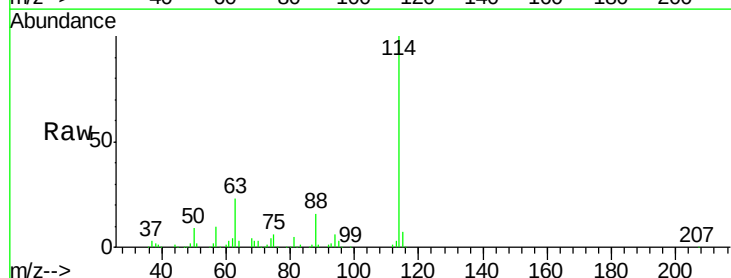
Manual Integrations
 APPROVED

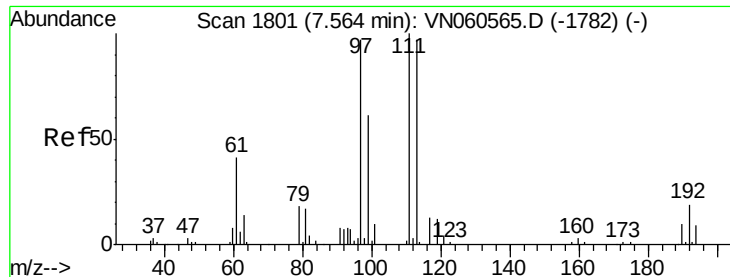
MMDadoda
 4/16/2020 11:15:12 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	235790		
63	22.5	0.0	43.8	
88	16.2	0.0	33.0	





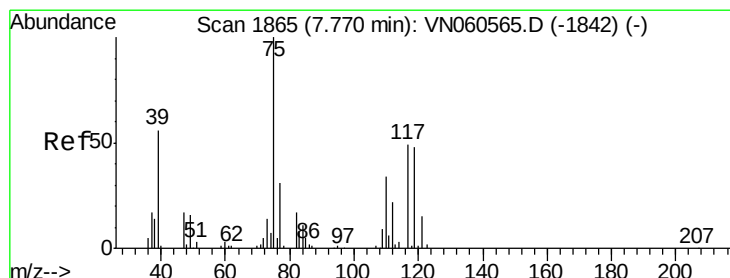
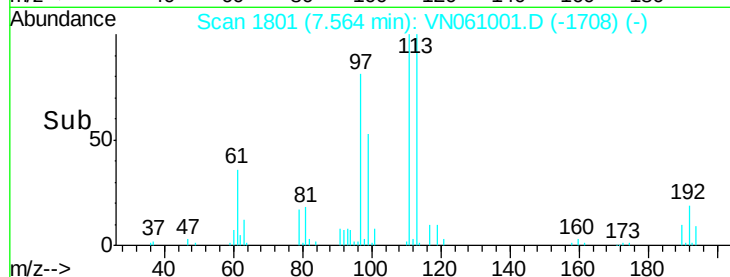
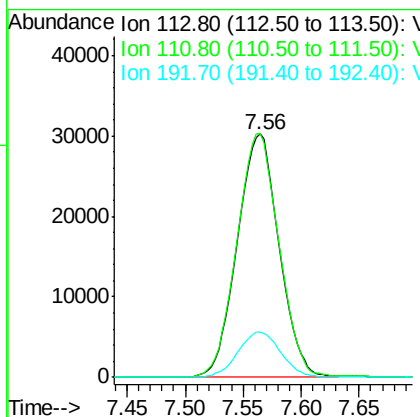
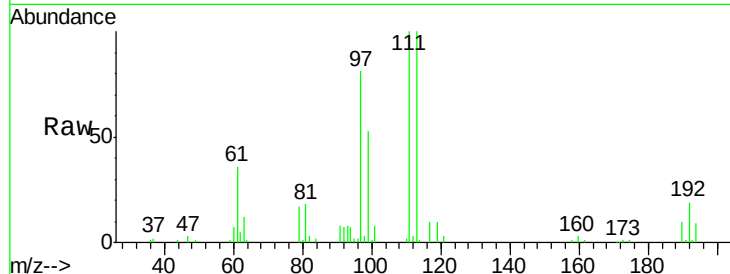
#35
 Dibromofluoromethane
 Concen: 53.176 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	75815		
111	100.8	82.9	124.3	
192	18.9	15.8	23.8	

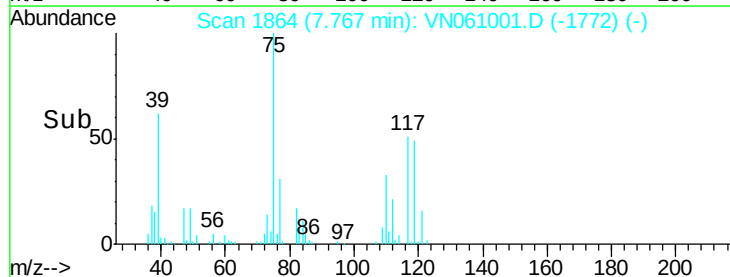
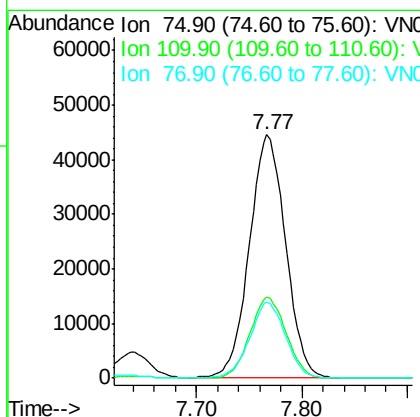
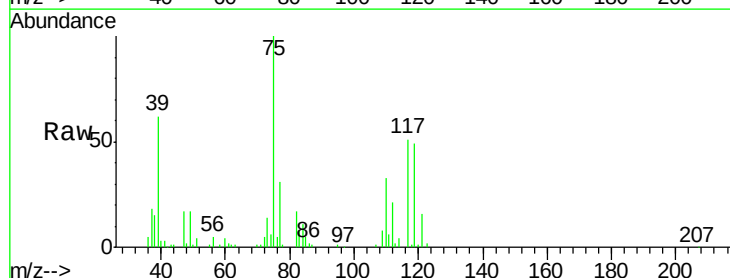
Manual Integrations
 APPROVED

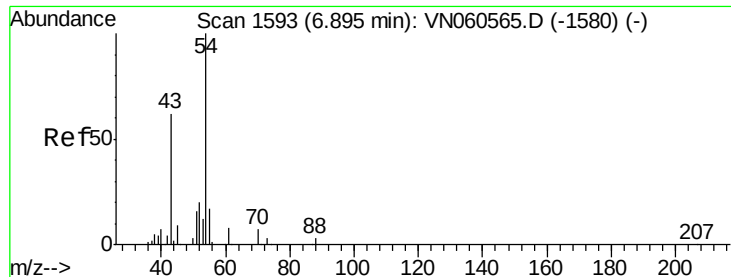
MMDadoda
 4/16/2020 11:15:12 AM



#36
 1,1-Dichloropropene
 Concen: 46.832 ug/l
 RT: 7.77 min Scan# 1864
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	106925		
110	33.1	16.9	50.6	
77	30.8	24.6	36.8	





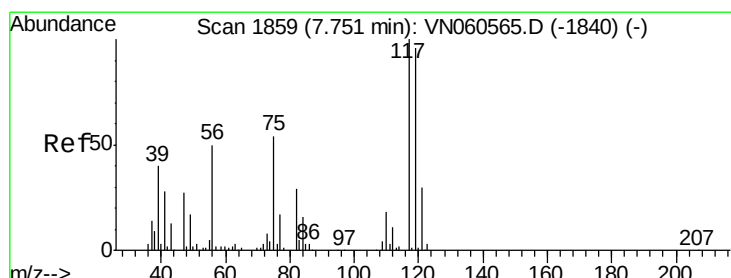
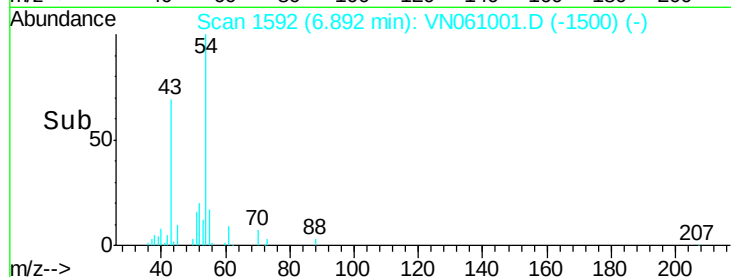
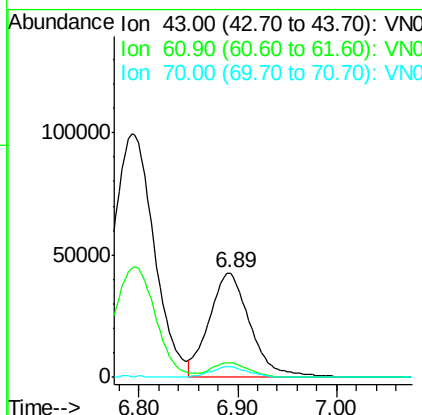
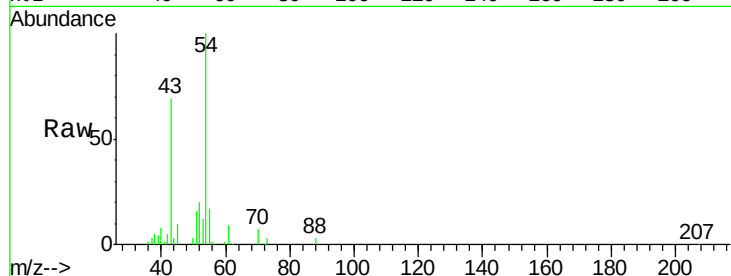
#37
Ethyl Acetate
Concen: 49.268 ug/l
RT: 6.89 min Scan# 1592
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.6	15.8
70	9.7	7.9	11.9

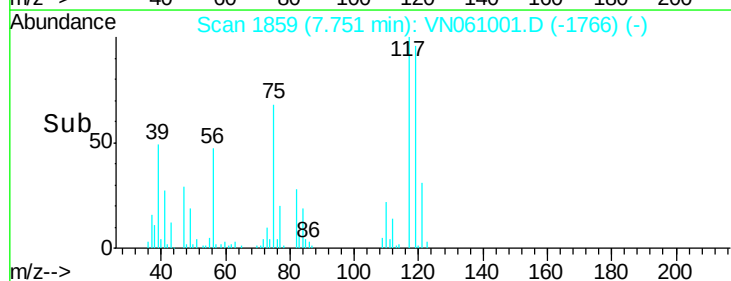
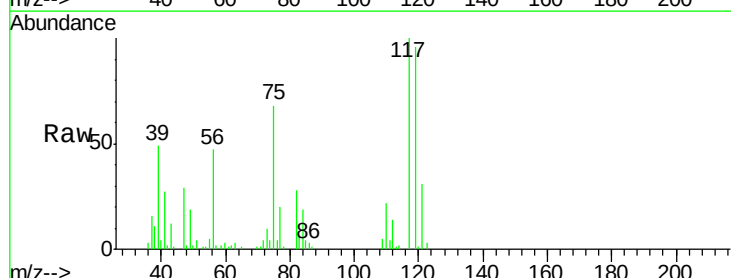
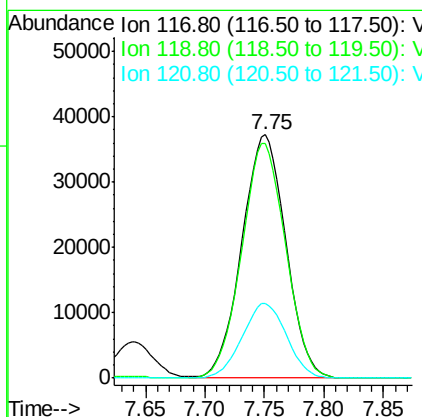
Manual Integrations
APPROVED

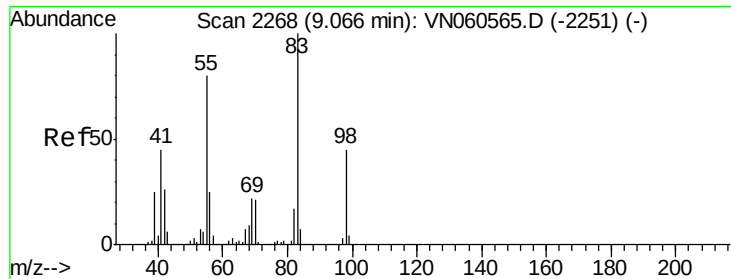
MMDadoda
4/16/2020 11:15:12 AM



#38
Carbon Tetrachloride
Concen: 46.624 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.3	76.2	114.2
121	30.8	23.7	35.5





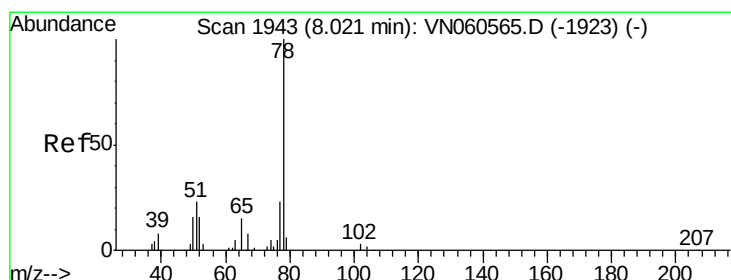
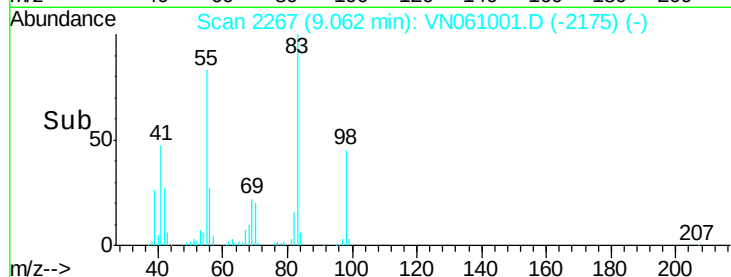
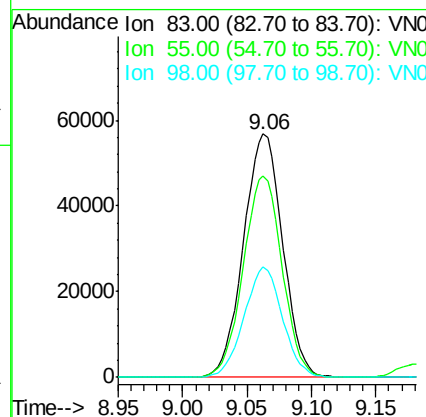
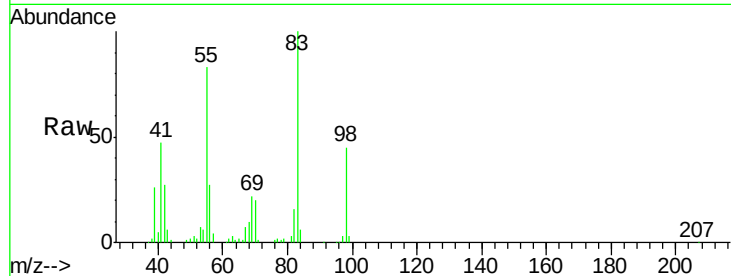
#39
Methylvlcyclohexane
Concen: 44.313 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	82.9	63.6	95.4	
98	45.2	36.0	54.0	

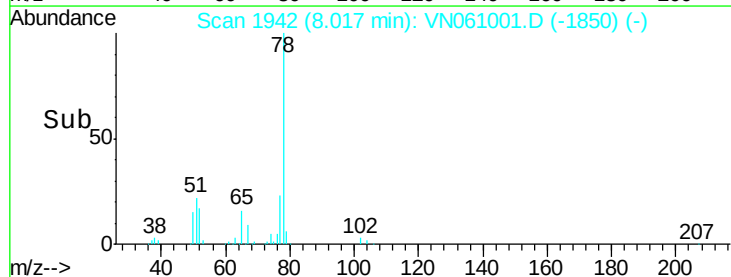
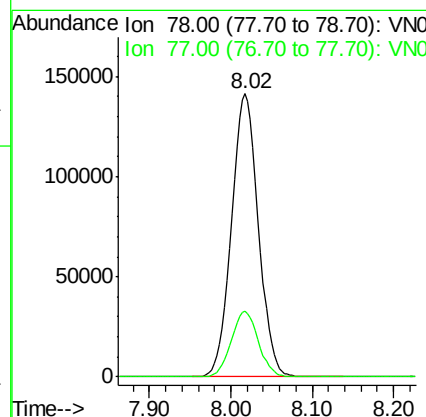
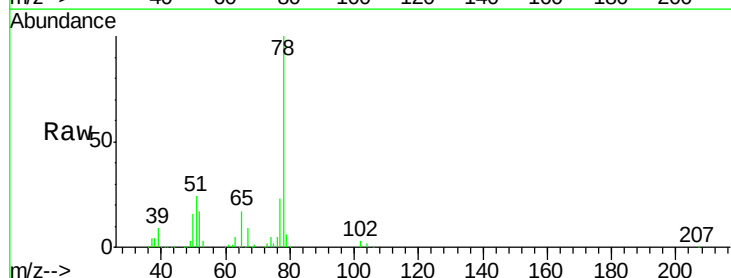
Manual Integrations
APPROVED

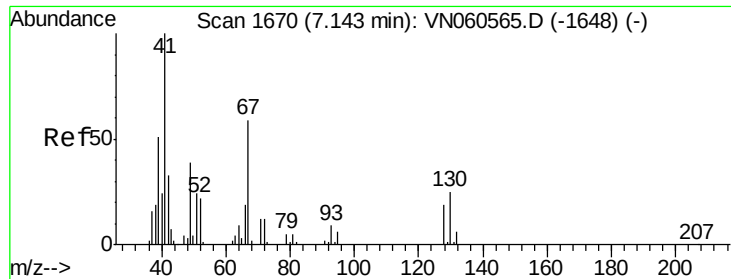
MMDadoda
4/16/2020 11:15:12 AM



#40
Benzene
Concen: 47.311 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.2	18.6	28.0	





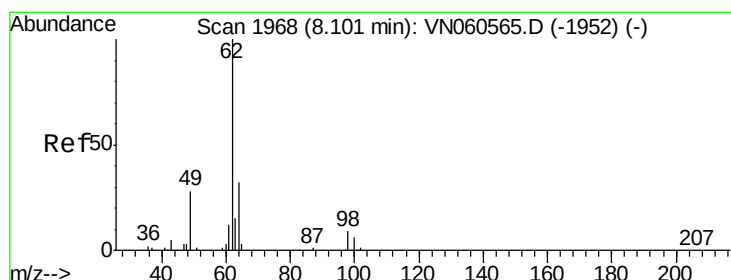
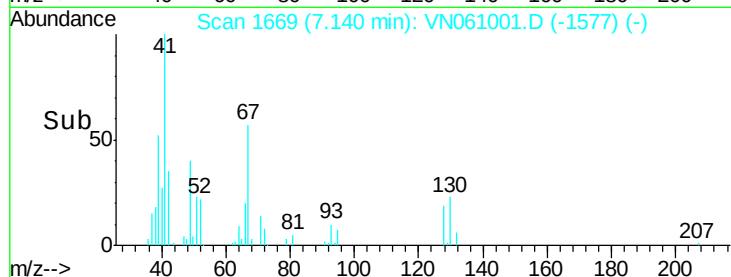
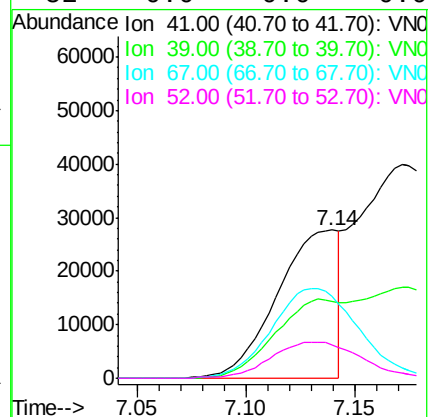
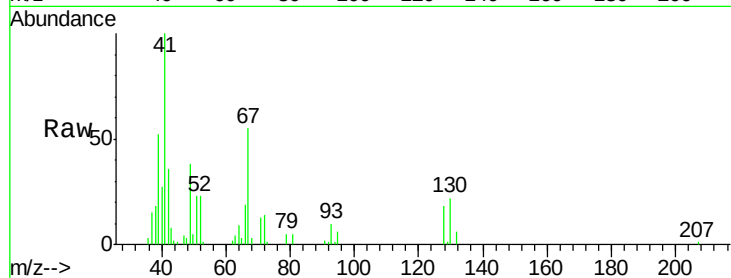
#41
Methacrylonitrile
Concen: 52.042 ug/l m
RT: 7.14 min Scan# 1669
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	41	Resp	54793
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

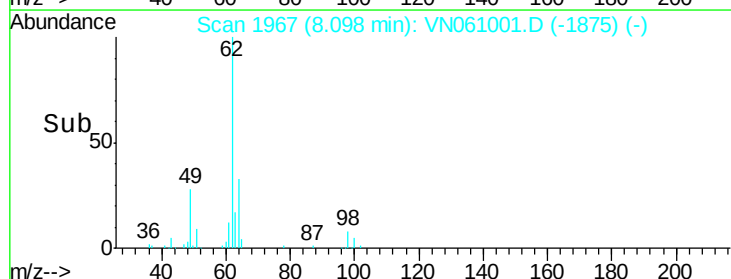
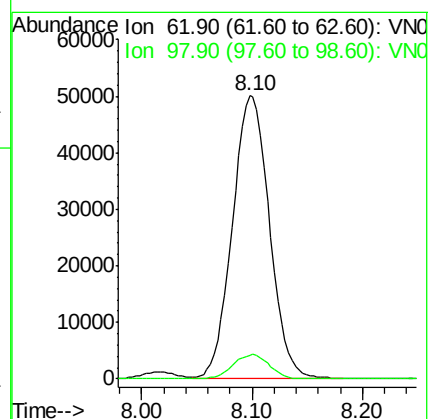
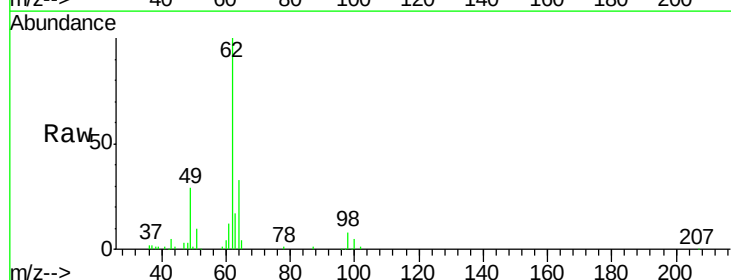
Manual Integrations
APPROVED

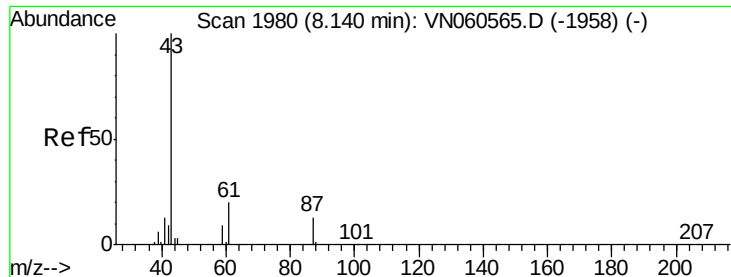
MMDadoda
4/16/2020 11:15:12 AM



#42
1,2-Dichloroethane
Concen: 49.562 ug/l
RT: 8.10 min Scan# 1967
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	62	Resp	116742
Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.8





#43

Isopropyl Acetate

Concen: 50.825 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

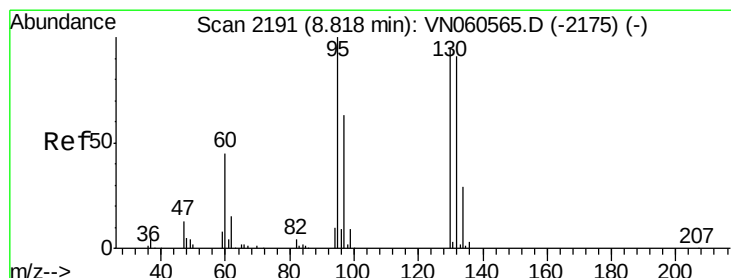
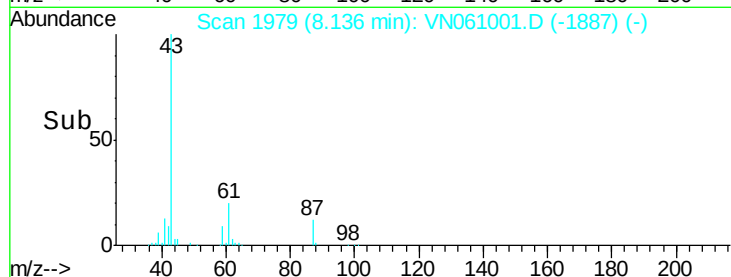
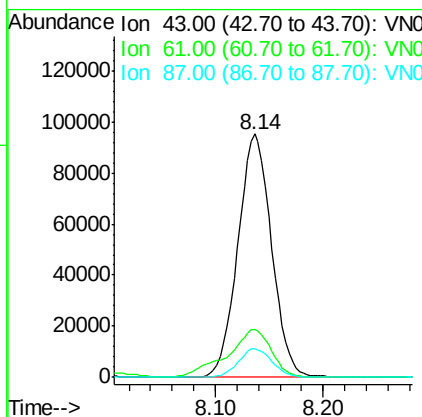
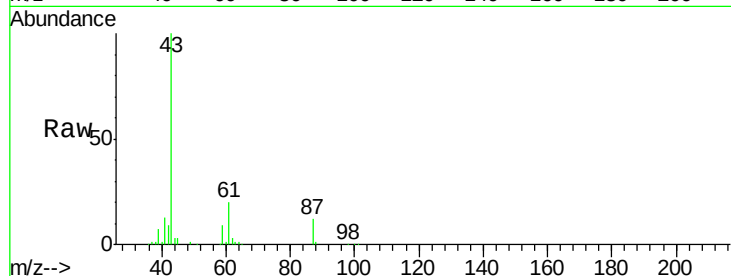
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	206788
Ion	Ratio	Lower	Upper
43	100		
61	25.8	20.7	31.1
87	11.8	9.8	14.8

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM



#44

Trichloroethene

Concen: 46.057 ug/l

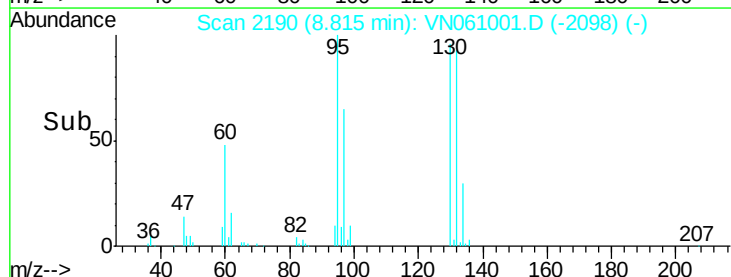
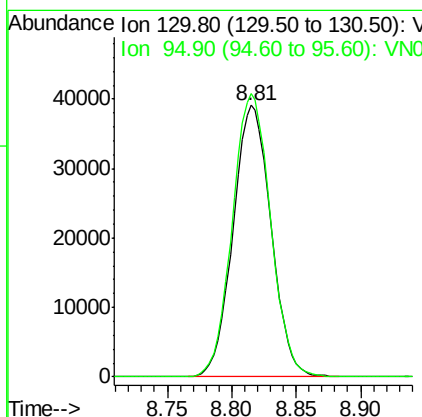
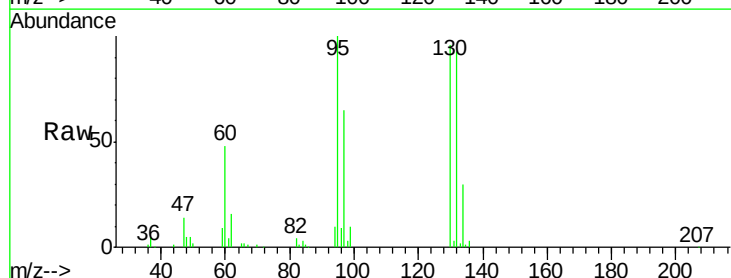
RT: 8.81 min Scan# 2190

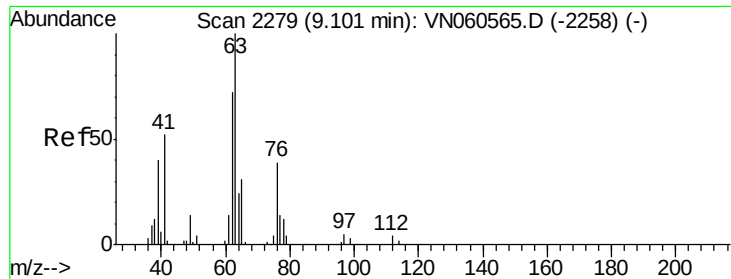
Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Tgt Ion:	130	Resp:	80024
Ion	Ratio	Lower	Upper
130	100		
95	104.3	0.0	211.2





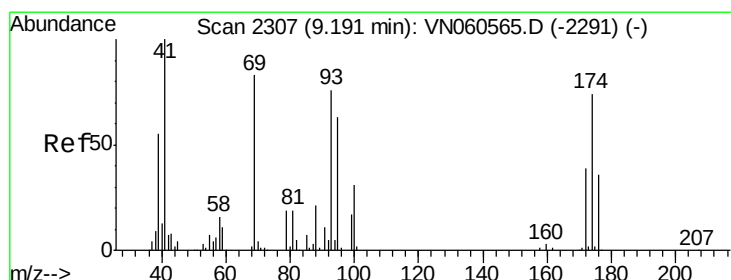
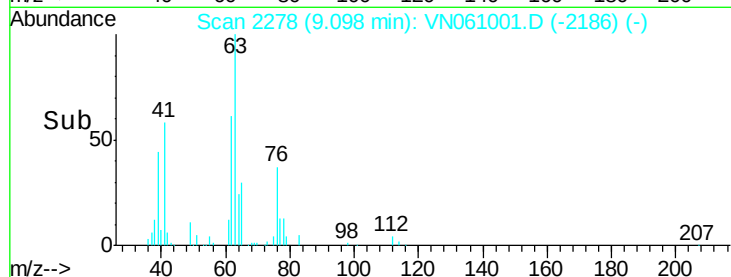
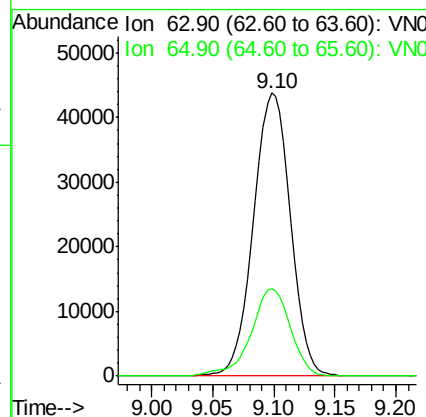
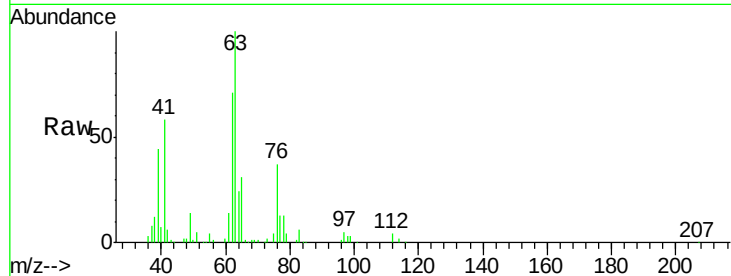
#45
 1,2-Dichloropropane
 Concen: 50.454 ug/l
 RT: 9.10 min Scan# 2278
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	63	Resp	91760
Ion Ratio	Lower	Upper	
63	100		
65	30.9	25.4	38.0

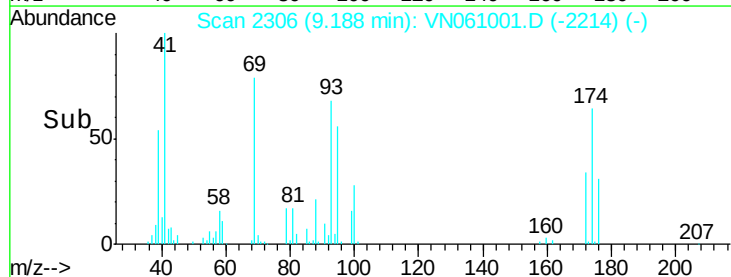
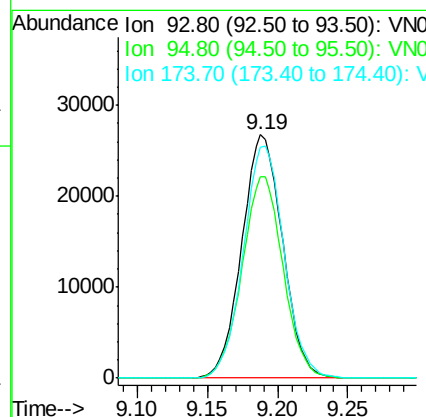
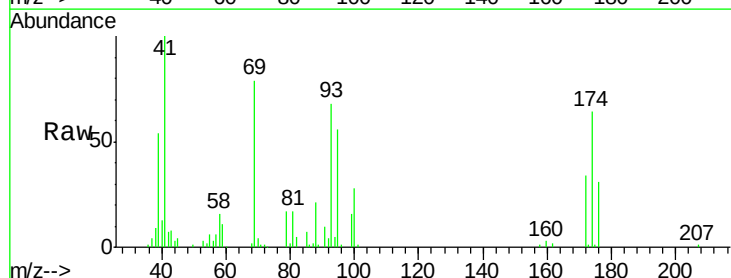
Manual Integrations
 APPROVED

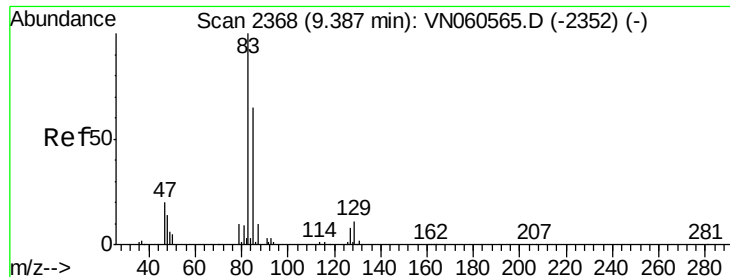
MMDadoda
 4/16/2020 11:15:12 AM



#46
 Dibromomethane
 Concen: 49.280 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion	93	Resp	54183
Ion Ratio	Lower	Upper	
93	100		
95	83.3	66.2	99.4
174	95.4	77.9	116.9





#47

Bromodichloromethane

Concen: 50.365 ug/l

RT: 9.38 min Scan# 2367

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

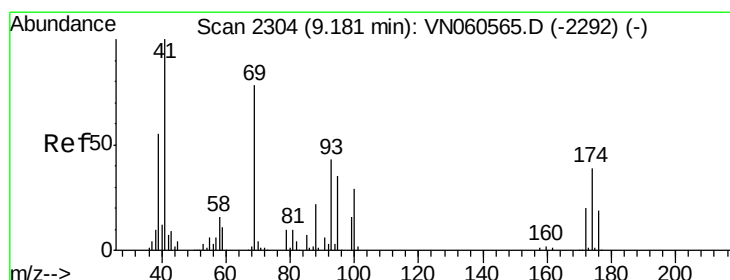
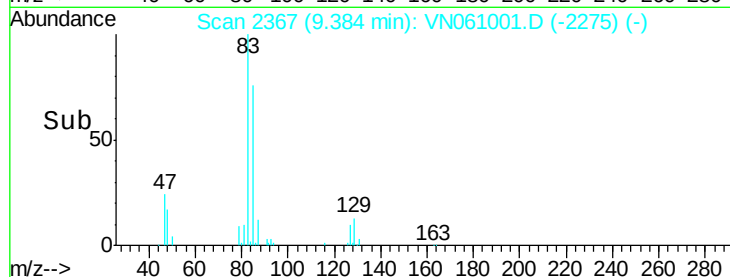
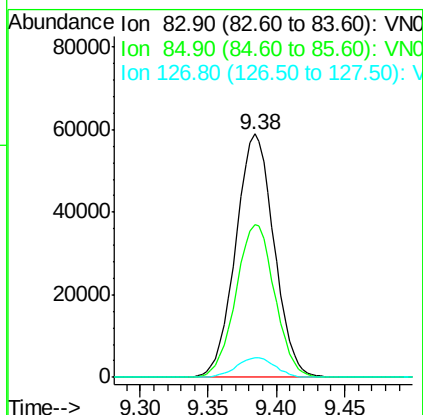
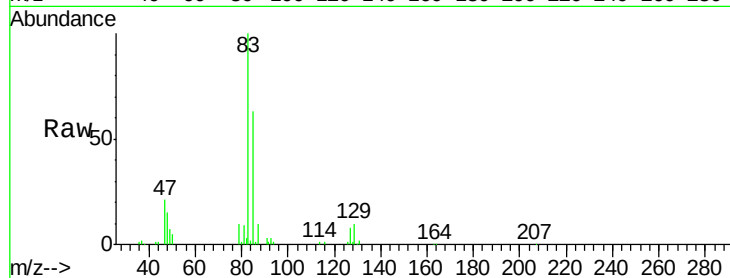
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	115072
Ion Ratio	Lower	Upper	
83	100		
85	62.8	51.8	77.6
127	8.2	6.5	9.7

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM



#48

Methyl methacrylate

Concen: 51.100 ug/l

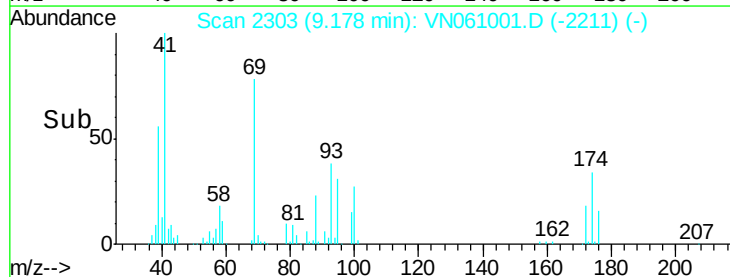
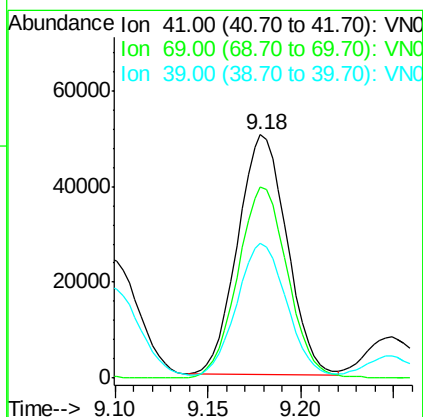
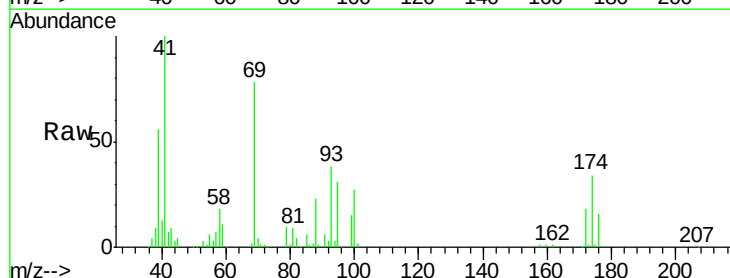
RT: 9.18 min Scan# 2303

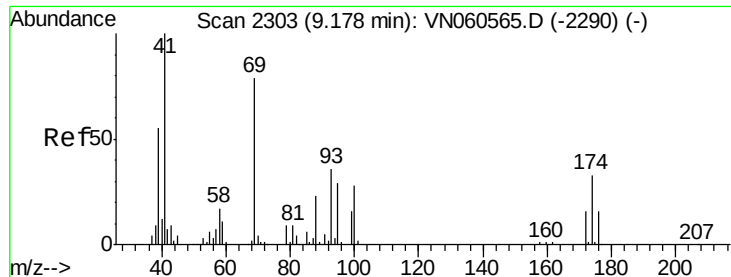
Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Tgt Ion:	41	Resp:	92566
Ion Ratio	Lower	Upper	
41	100		
69	80.7	65.4	98.0
39	57.8	44.0	66.0





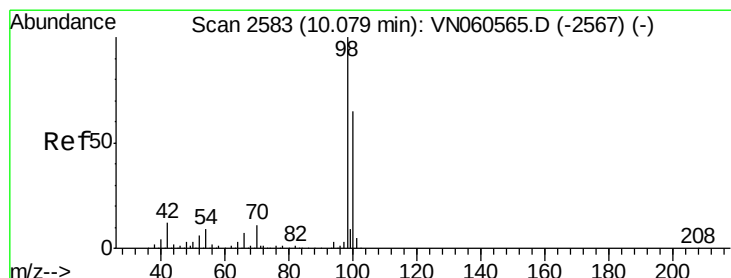
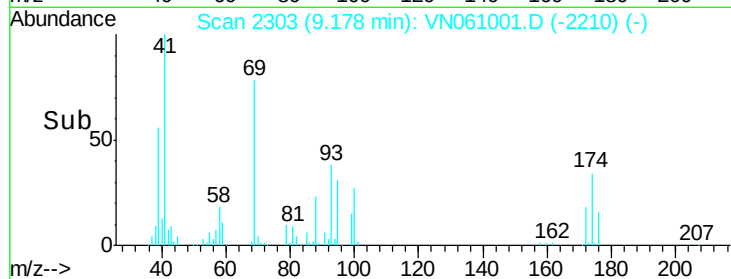
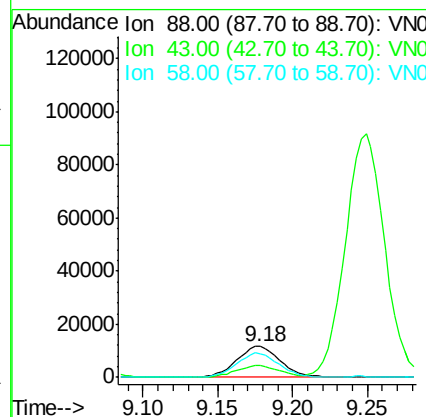
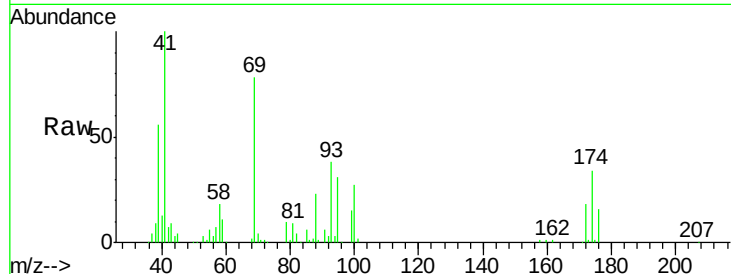
#49
1,4-Dioxane
Concen: 1093.665 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.0	30.8	46.2
58	77.0	59.8	89.8

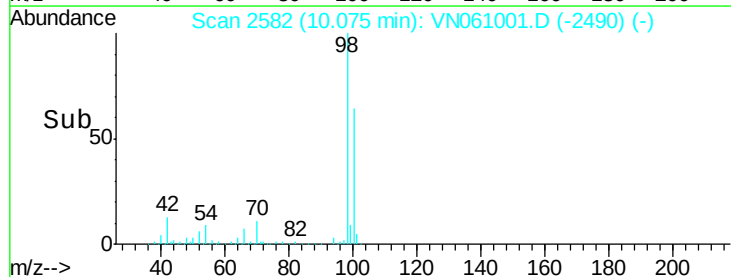
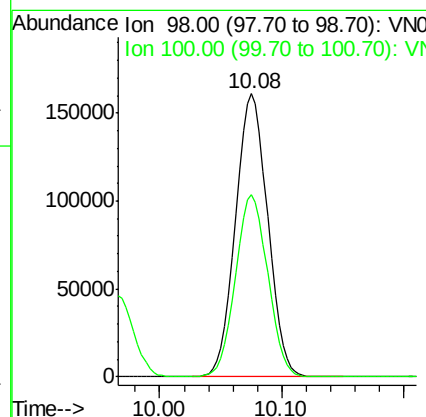
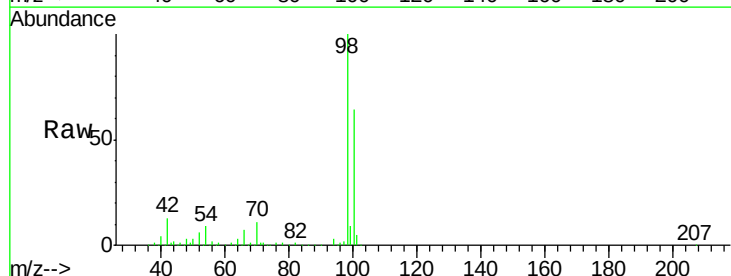
Manual Integrations
APPROVED

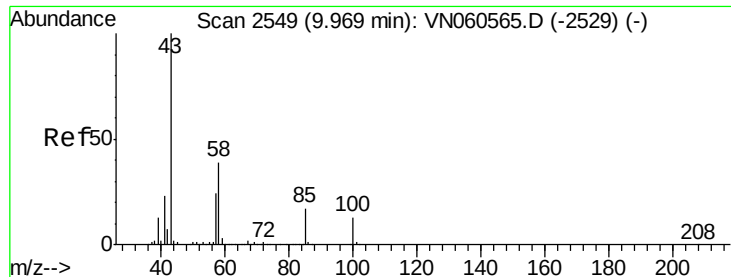
MMDadoda
4/16/2020 11:15:12 AM



#50
Toluene-d8
Concen: 50.700 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.8	77.8





#51

4-Methyl-2-Pentanone

Concen: 265.702 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 615156

Ion Ratio Lower Upper

43 100

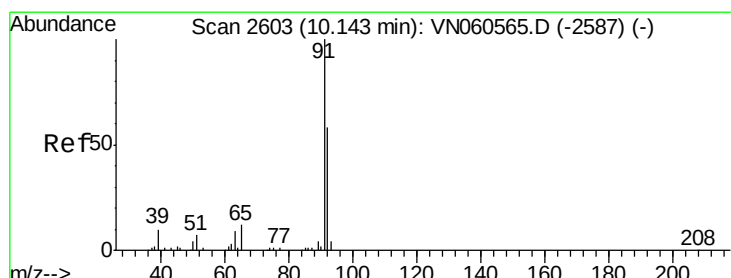
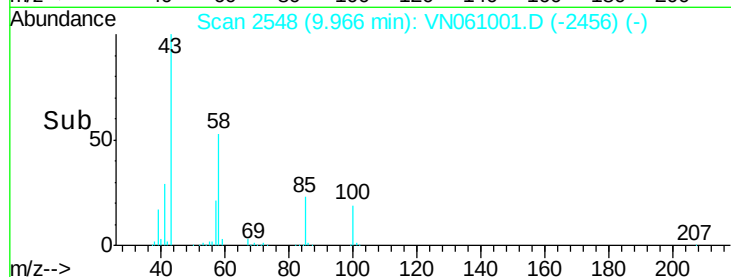
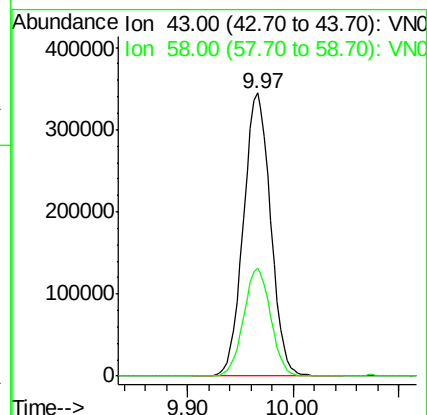
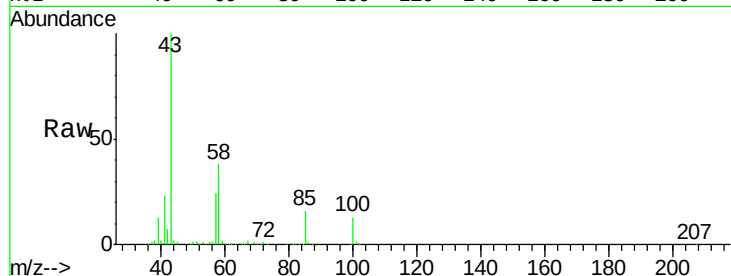
58 38.0 30.8 46.2

Manual Integrations

APPROVED

MMDadoda

4/16/2020 11:15:12 AM



#52

Toluene

Concen: 47.293 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN061001.D

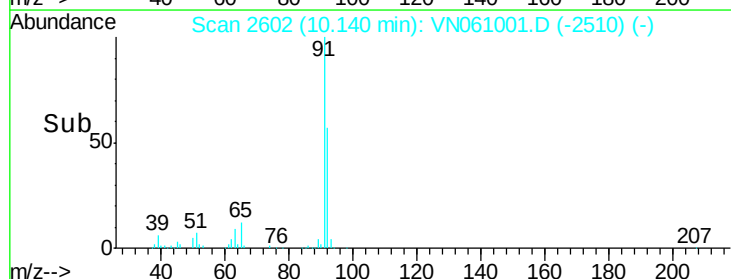
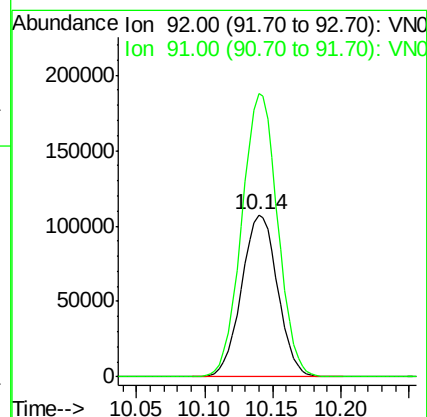
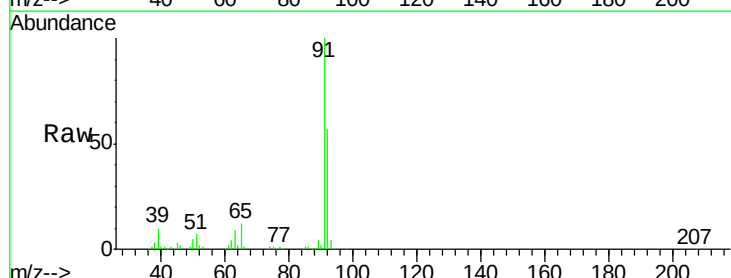
Acq: 16 Apr 2020 6:36

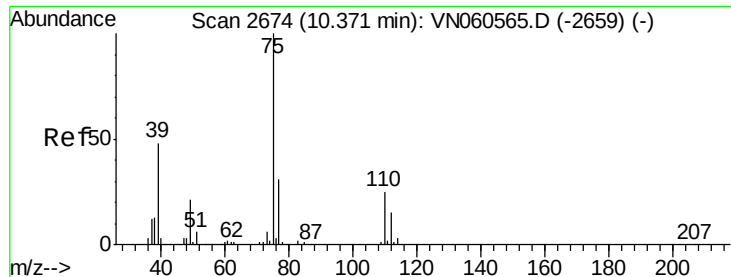
Tgt Ion: 92 Resp: 196859

Ion Ratio Lower Upper

92 100

91 173.9 137.6 206.4





#53

t-1,3-Dichloropropene

Concen: 48.769 ug/l

RT: 10.37 min Scan# 2673

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 127992

Ion Ratio Lower Upper

75 100

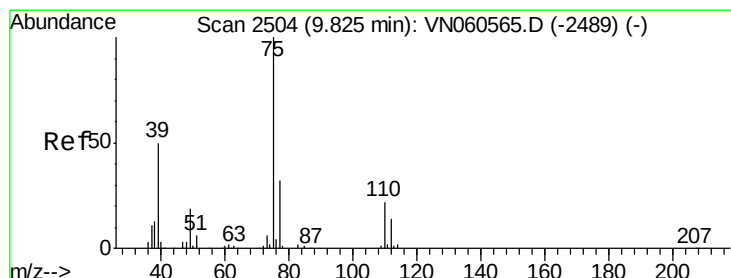
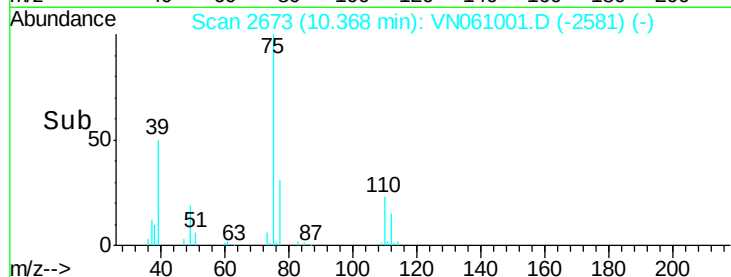
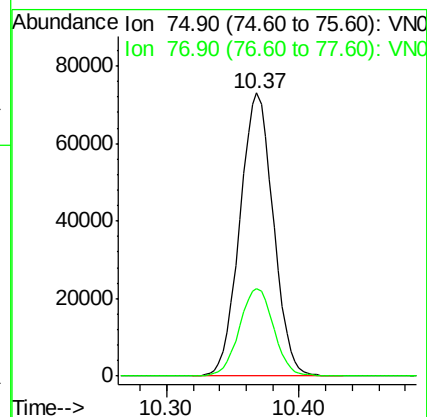
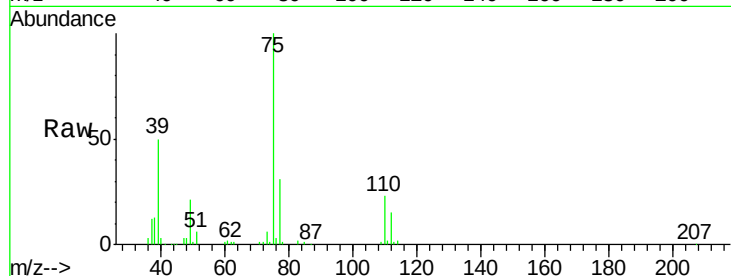
77 30.8 25.1 37.7

Manual Integrations

APPROVED

MMDadoda

4/16/2020 11:15:12 AM



#54

cis-1,3-Dichloropropene

Concen: 47.222 ug/l

RT: 9.82 min Scan# 2504

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

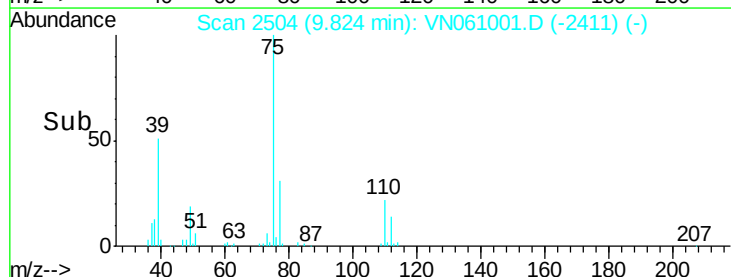
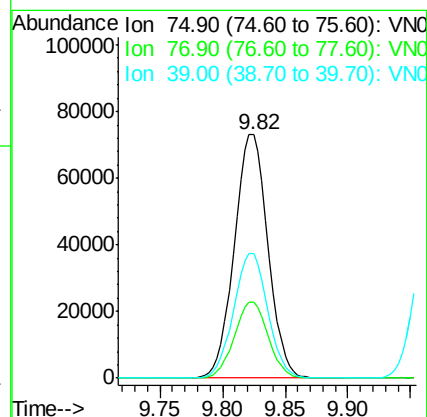
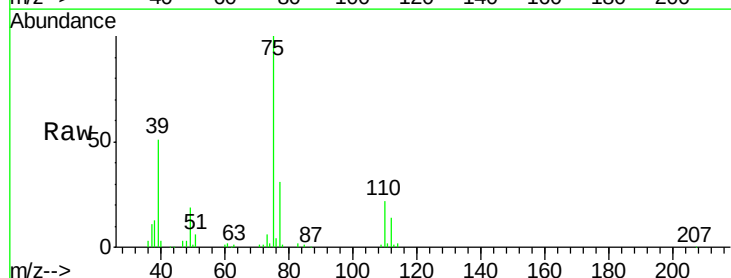
Tgt Ion: 75 Resp: 135961

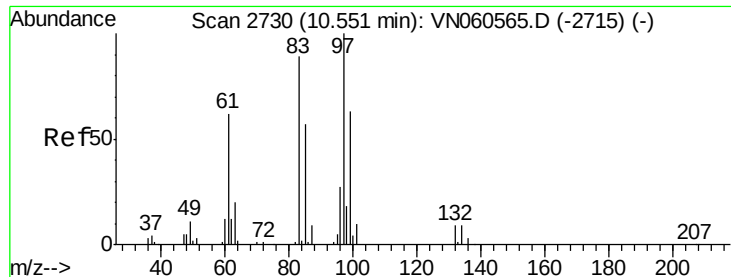
Ion Ratio Lower Upper

75 100

77 31.0 25.4 38.0

39 50.9 40.2 60.4





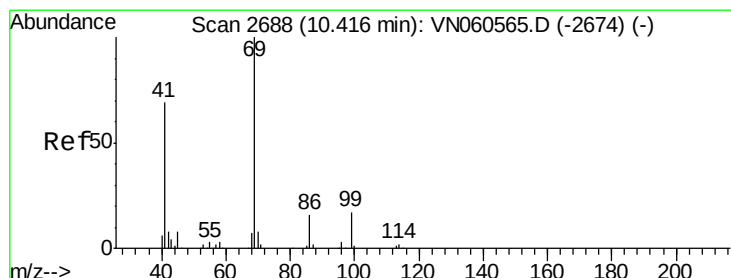
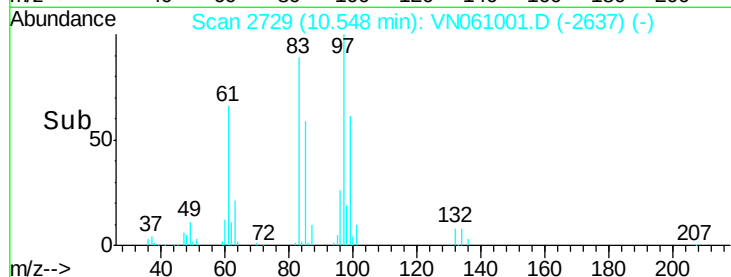
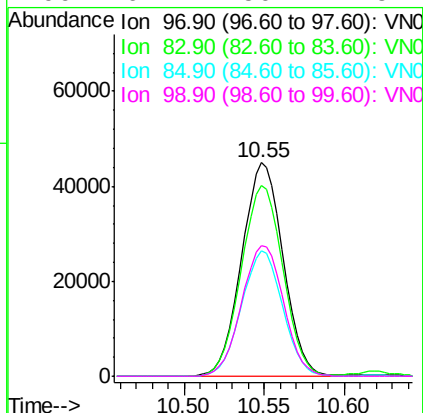
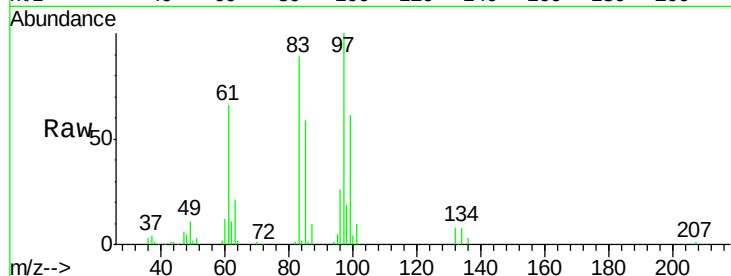
#55
 1,1,2-Trichloroethane
 Concen: 49.803 ug/l
 RT: 10.55 min Scan# 2729
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	79754
Ion	Ratio	Lower	Upper
97	100		
83	89.4	71.3	106.9
85	58.6	45.2	67.8
99	61.4	50.1	75.1

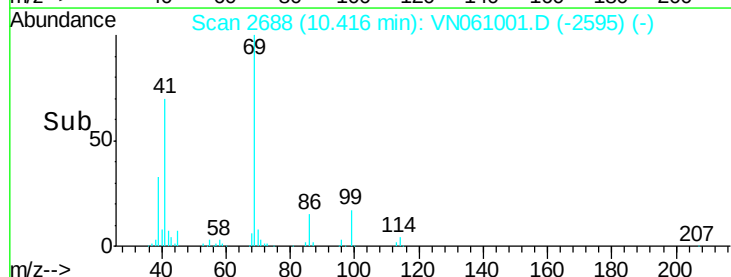
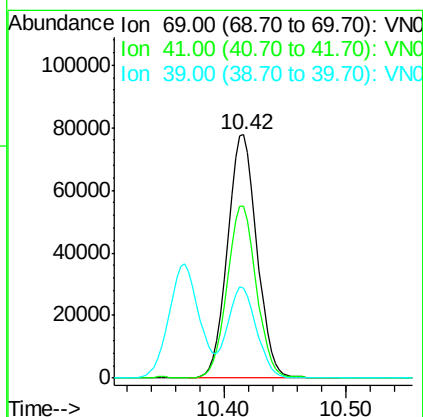
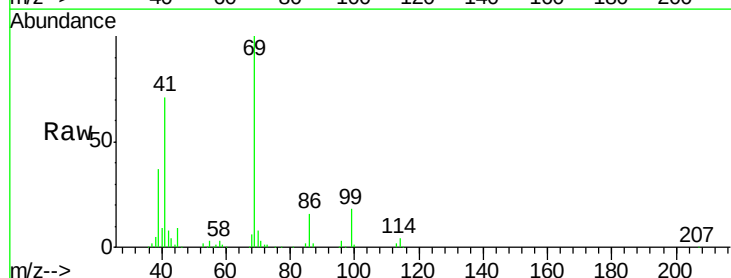
Manual Integrations
 APPROVED

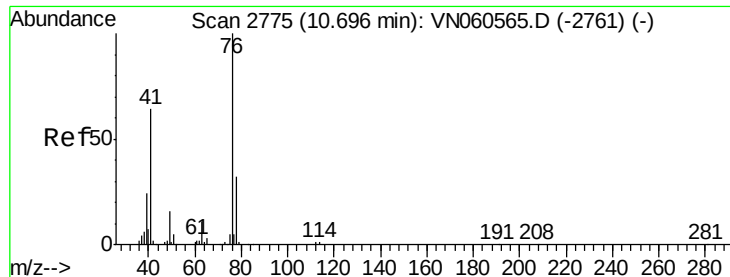
MMDadoda
 4/16/2020 11:15:12 AM



#56
 Ethyl methacrylate
 Concen: 52.443 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion:	69	Resp:	130947
Ion	Ratio	Lower	Upper
69	100		
41	70.9	55.4	83.2
39	36.7	29.4	44.0





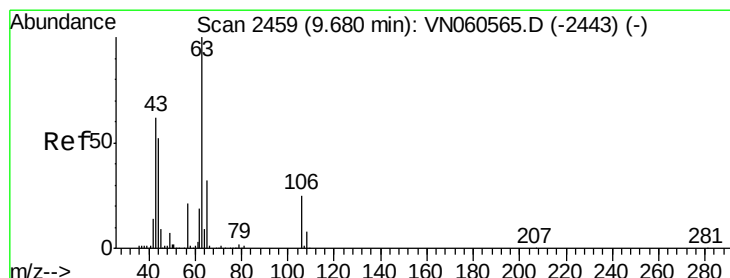
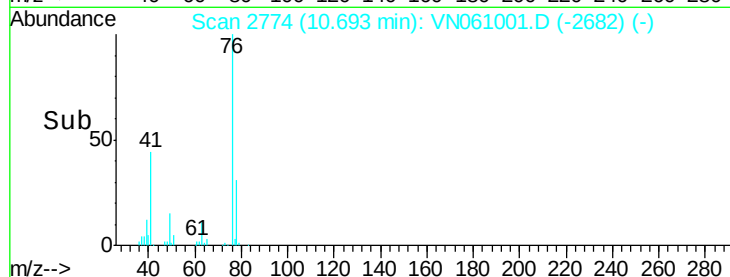
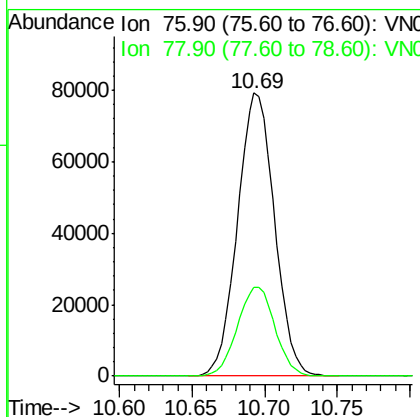
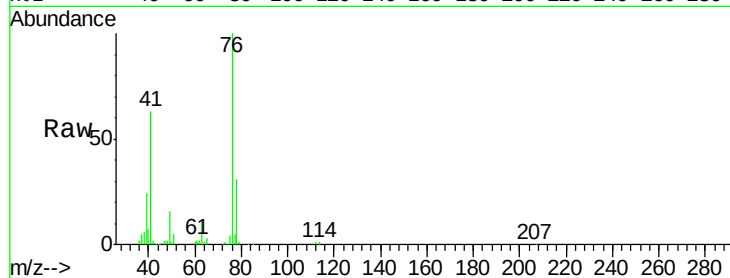
#57
 1,3-Dichloropropane
 Concen: 50.617 ug/l
 RT: 10.69 min Scan# 2774
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.8	38.6

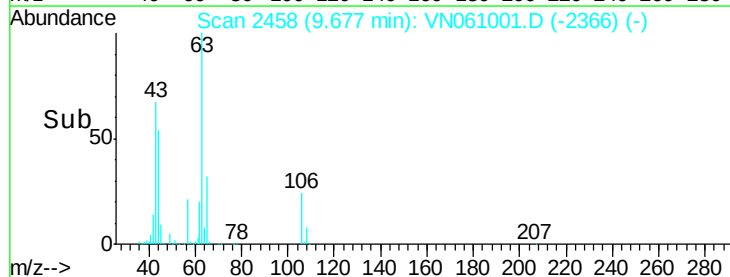
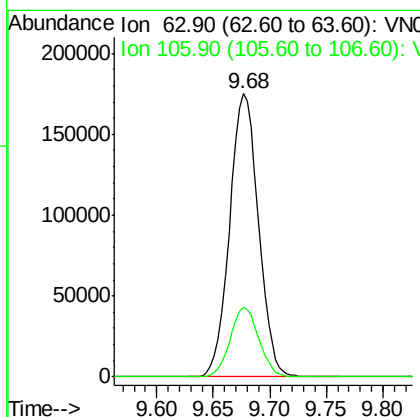
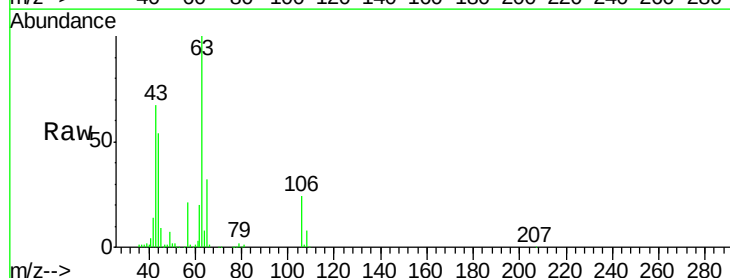
Manual Integrations
 APPROVED

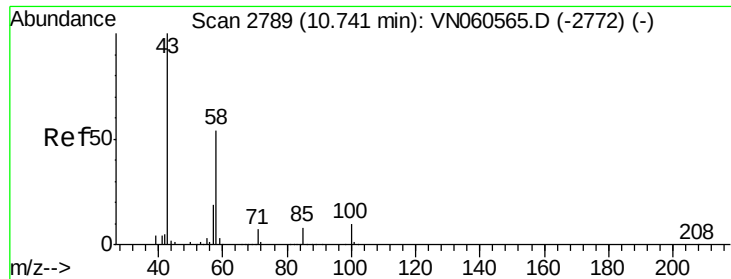
MMDadoda
 4/16/2020 11:15:12 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 250.424 ug/l
 RT: 9.68 min Scan# 2458
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.3	20.0	30.0





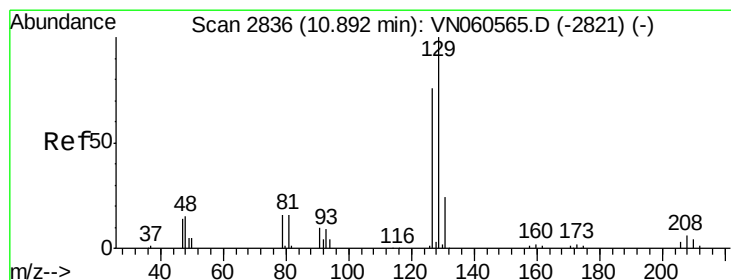
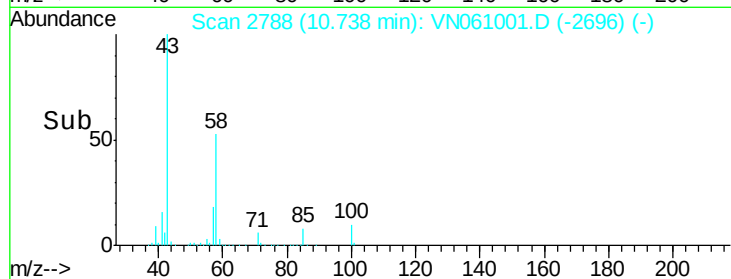
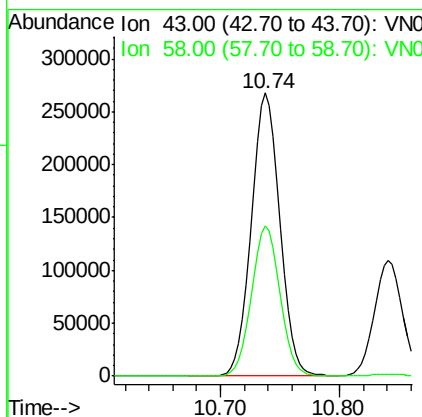
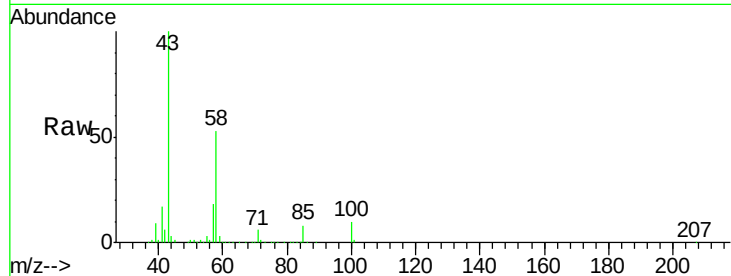
#59
2-Hexanone
Concen: 265.946 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 443537
Ion Ratio Lower Upper
43 100
58 53.1 26.7 80.1

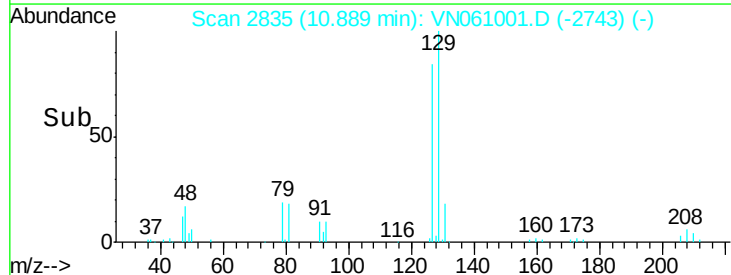
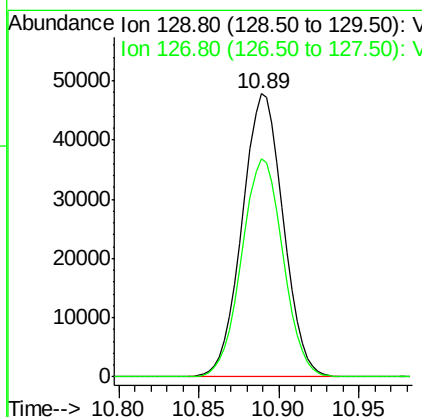
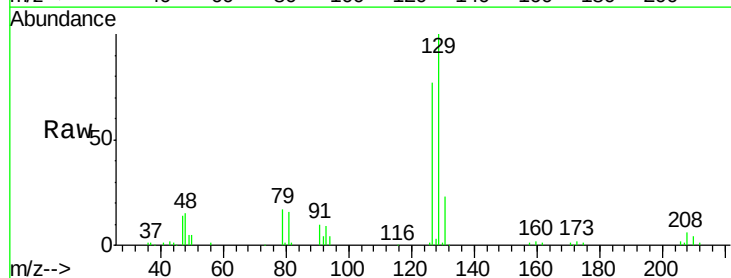
Manual Integrations
APPROVED

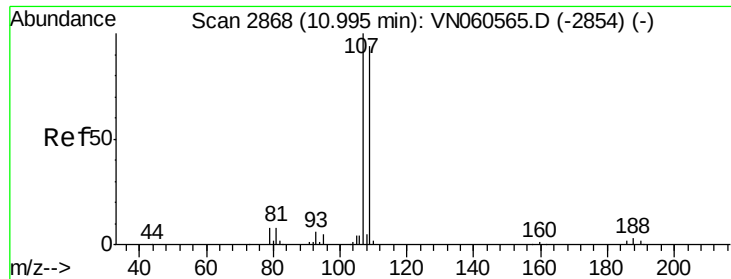
MMDadoda
4/16/2020 11:15:12 AM



#60
Dibromochloromethane
Concen: 50.826 ug/l
RT: 10.89 min Scan# 2835
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion: 129 Resp: 84073
Ion Ratio Lower Upper
129 100
127 77.4 38.5 115.5





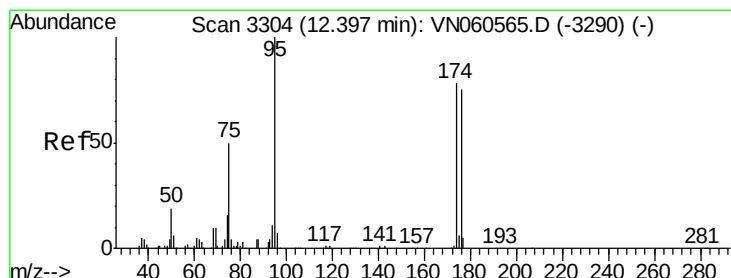
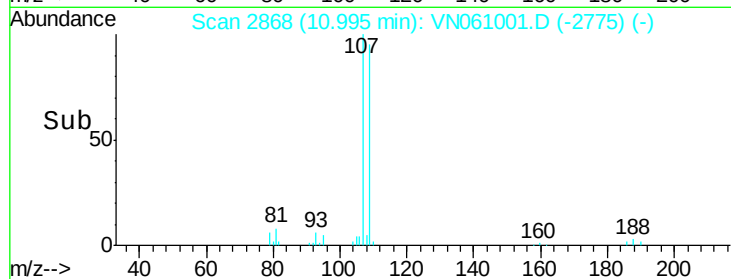
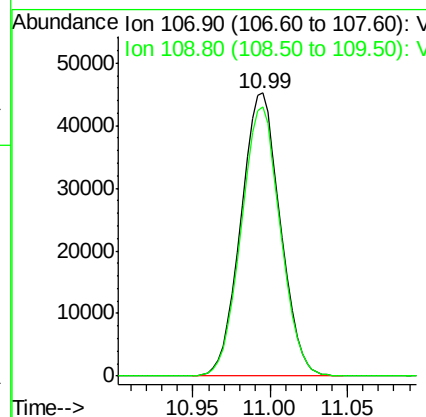
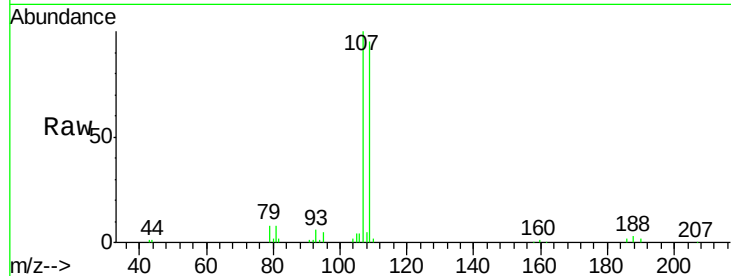
#61
 1,2-Dibromoethane
 Concen: 49.672 ug/l
 RT: 10.99 min Scan# 2868
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.4	113.2

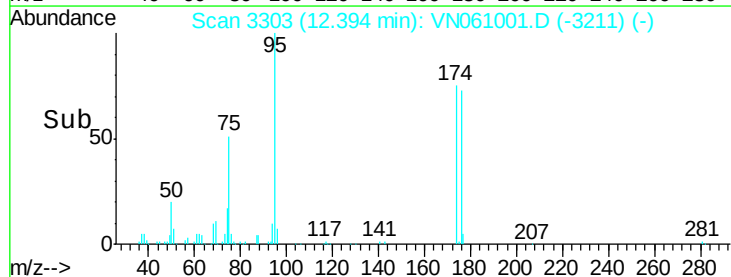
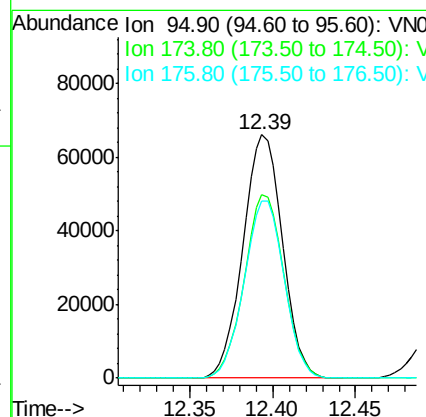
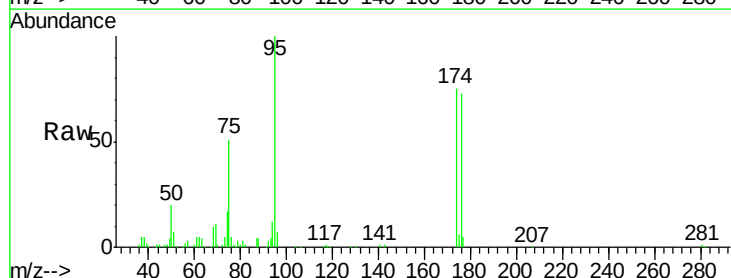
Manual Integrations
 APPROVED

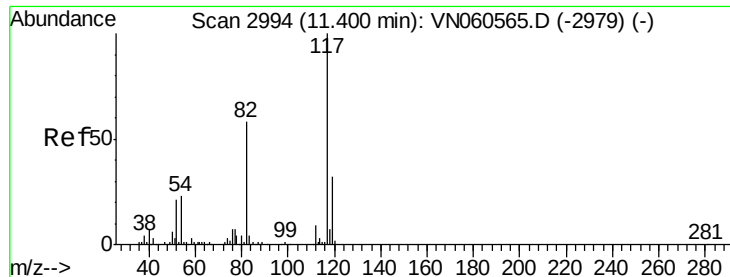
MMDadoda
 4/16/2020 11:15:12 AM



#62
 4-Bromofluorobenzene
 Concen: 51.373 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	157.6
176	73.9	0.0	150.6





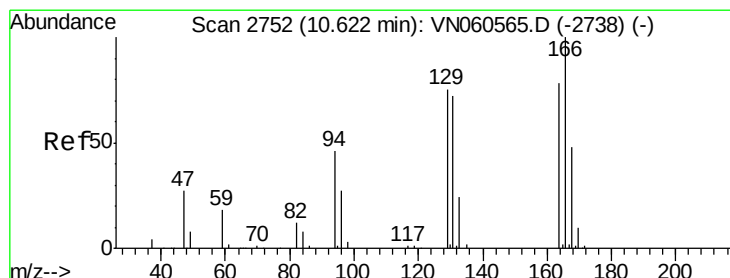
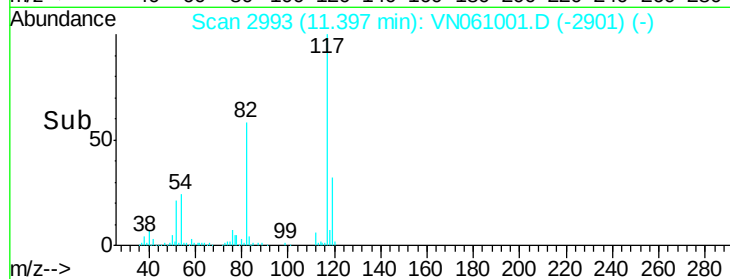
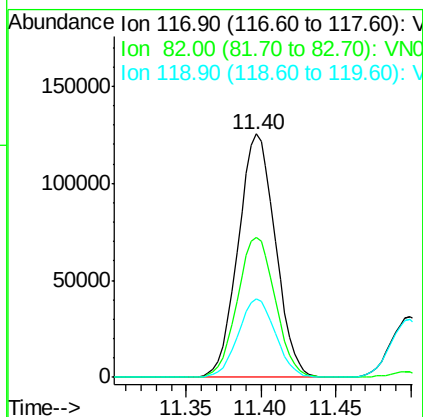
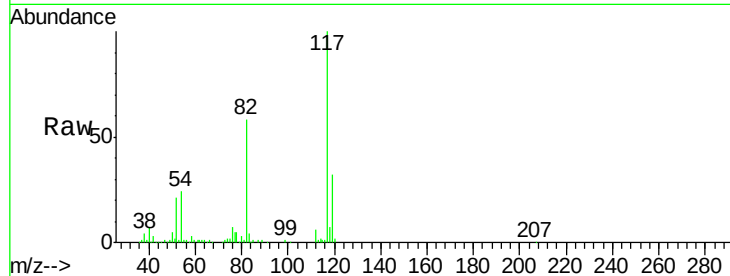
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.7	46.7	70.1
119	32.1	25.5	38.3

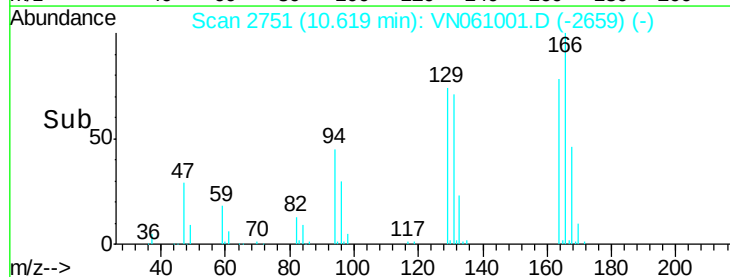
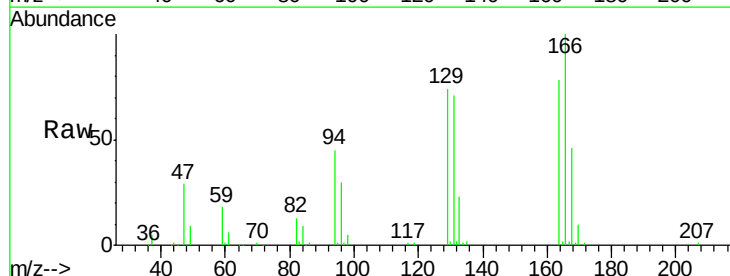
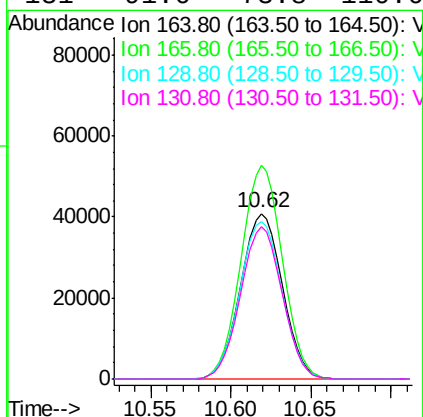
Manual Integrations
APPROVED

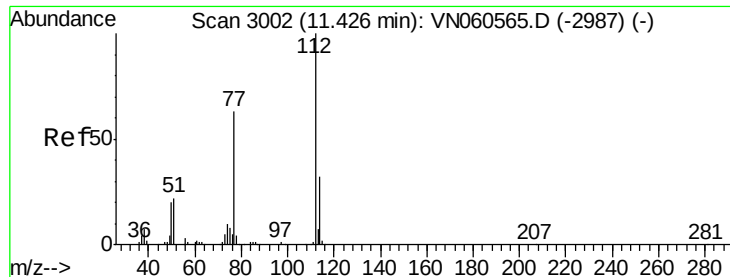
MMDadoda
4/16/2020 11:15:12 AM



#64
Tetrachloroethene
Concen: 42.723 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.0	102.7	154.1
129	95.4	77.2	115.8
131	91.6	73.8	110.6





#65

Chlorobenzene

Concen: 47.413 ug/l

RT: 11.42 min Scan# 3001

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 204496

Ion Ratio Lower Upper

112 100

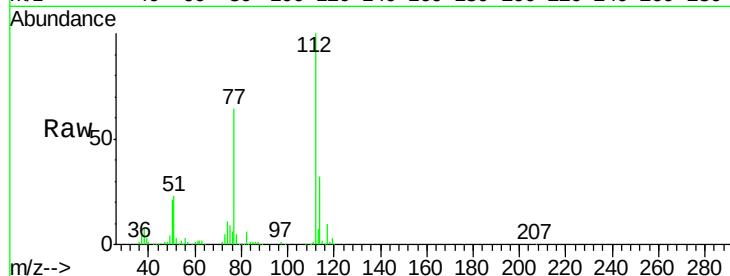
114 31.5 25.8 38.6

Manual Integrations

APPROVED

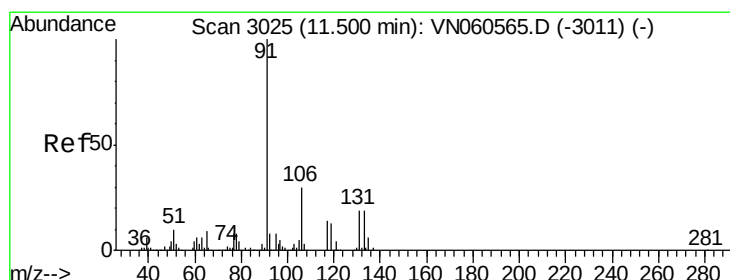
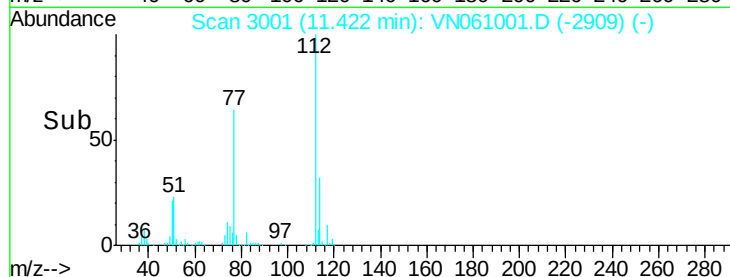
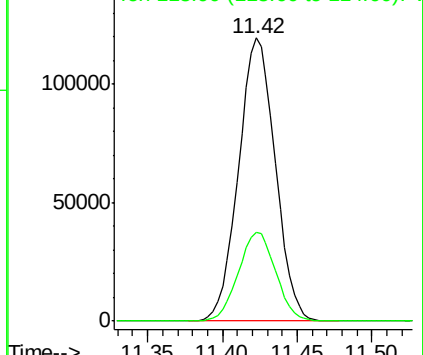
MMDadoda

4/16/2020 11:15:12 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 49.192 ug/l

RT: 11.50 min Scan# 3025

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

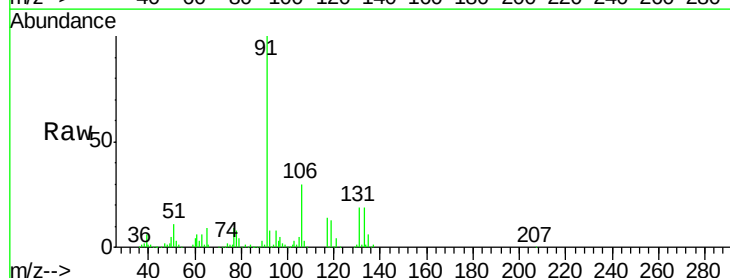
Tgt Ion:131 Resp: 76819

Ion Ratio Lower Upper

131 100

133 95.4 48.9 146.8

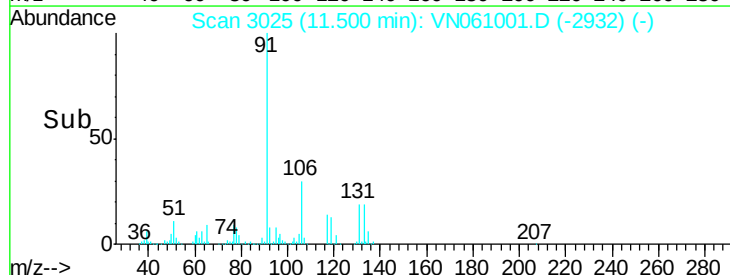
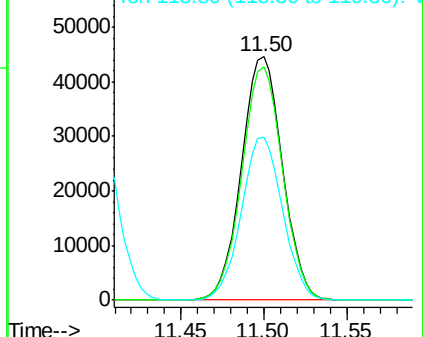
119 67.1 33.9 101.7

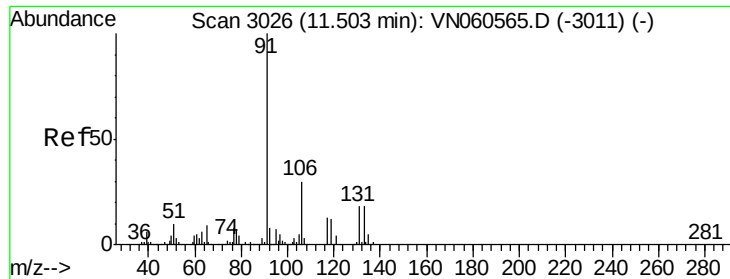


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 48.000 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 384998

Ion Ratio Lower Upper

91 100

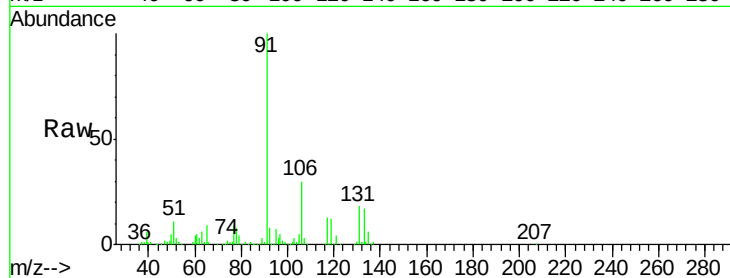
106 30.2 24.2 36.2

Manual Integrations

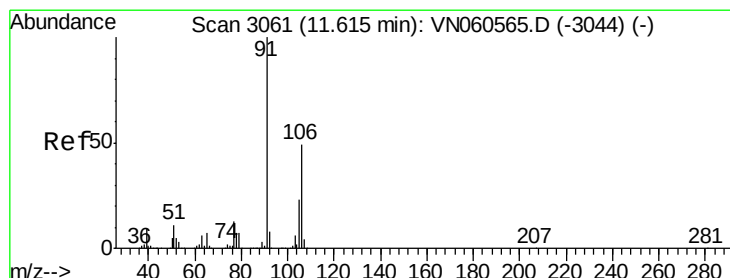
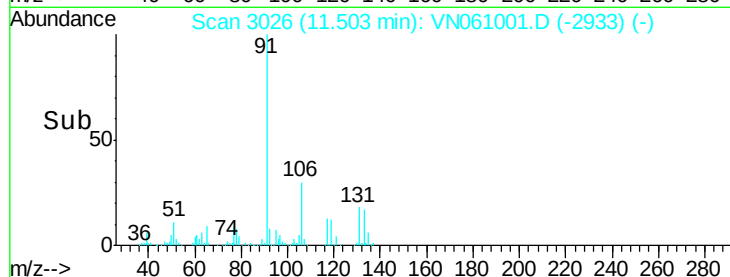
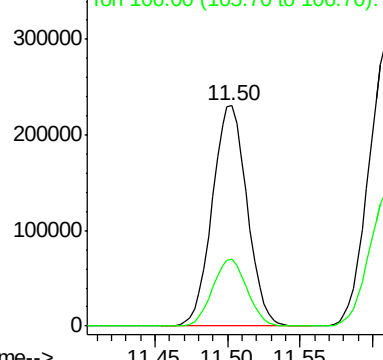
APPROVED

MMDadoda

4/16/2020 11:15:12 AM



Abundance Ion 91.00 (90.70 to 91.70): VN060565.D (-3011) (-)



#68

m/p-Xylenes

Concen: 93.157 ug/l

RT: 11.61 min Scan# 3060

Delta R.T. -0.00 min

Lab File: VN061001.D

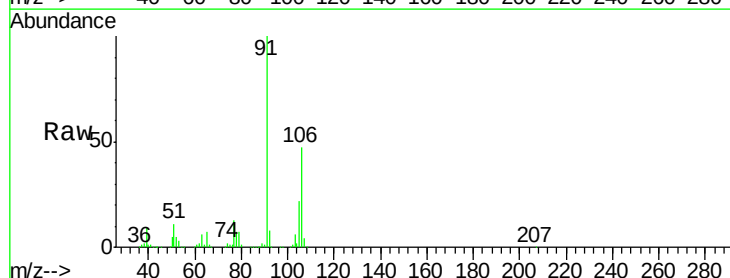
Acq: 16 Apr 2020 6:36

Tgt Ion: 106 Resp: 277661

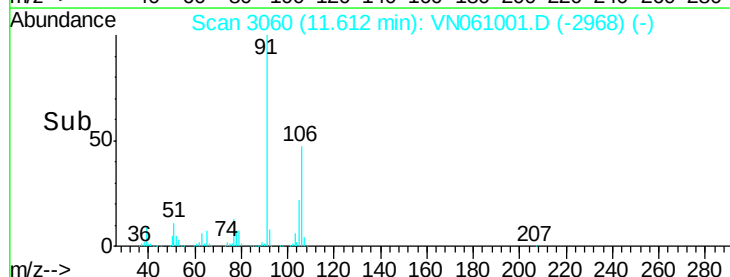
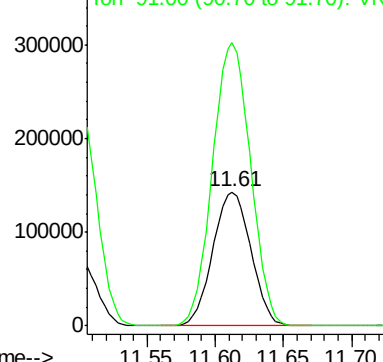
Ion Ratio Lower Upper

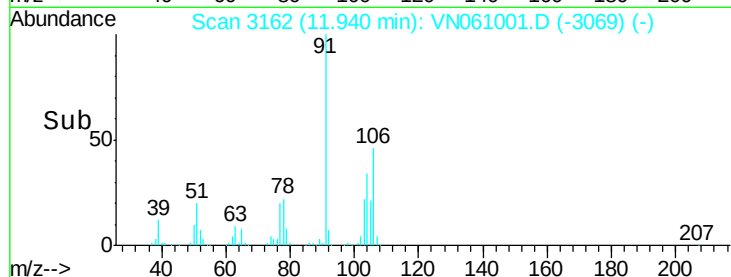
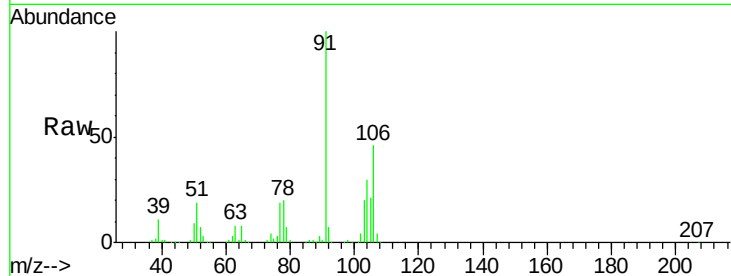
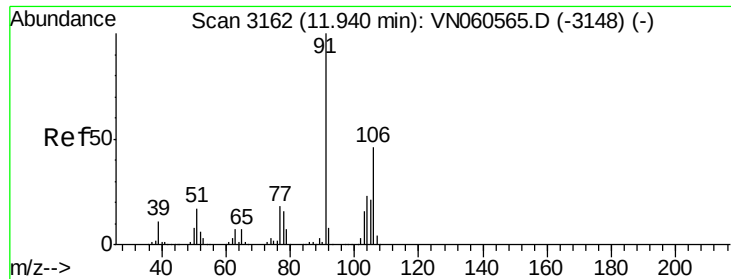
106 100

91 210.7 165.0 247.4



Abundance Ion 106.00 (105.70 to 106.70): VN060565.D (-3044) (-)





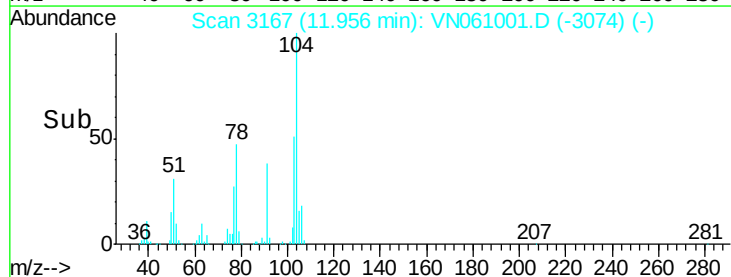
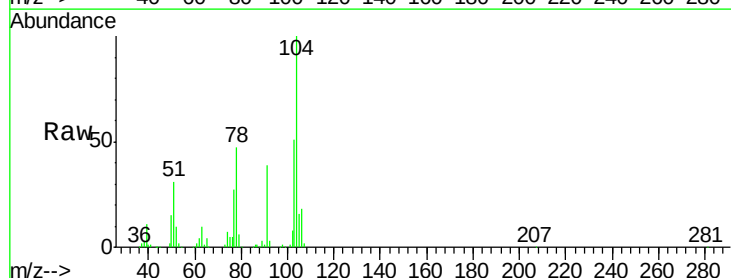
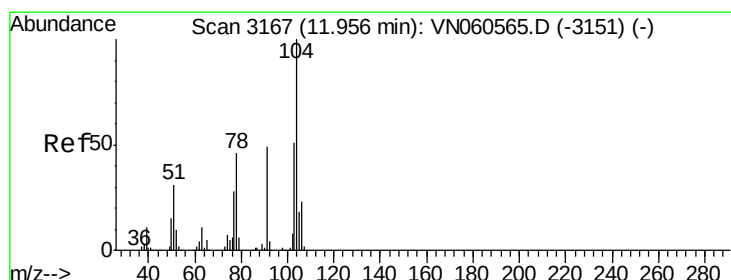
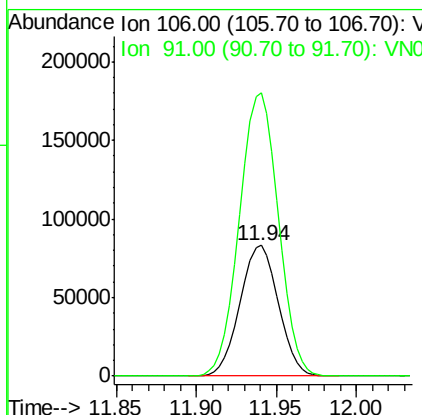
#69
o-Xylene
Concen: 47.833 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tot Ion:106 Resp: 136100
Ion Ratio Lower Upper
106 100
91 219.7 109.5 328.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

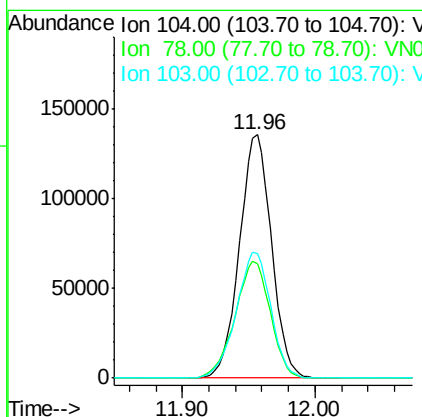
Manual Integrations
APPROVED

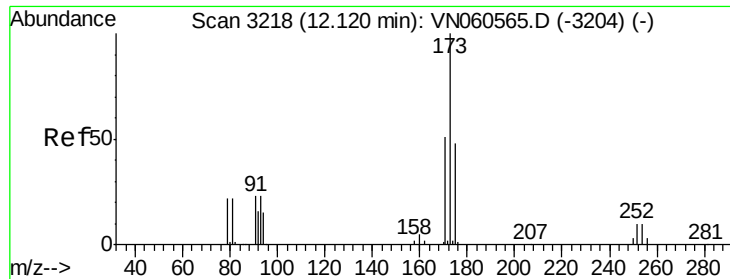
MMDadoda
4/16/2020 11:15:12 AM



#70
Styrene
Concen: 48.965 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion:104 Resp: 227859
Ion Ratio Lower Upper
104 100
78 52.9 41.2 61.8
103 55.7 44.0 66.0





#71

Bromoform

Concen: 46.633 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 60373

Ion Ratio Lower Upper

173 100

175 48.0 24.1 72.4

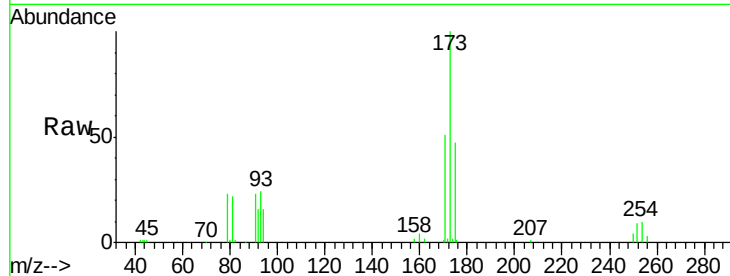
254 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

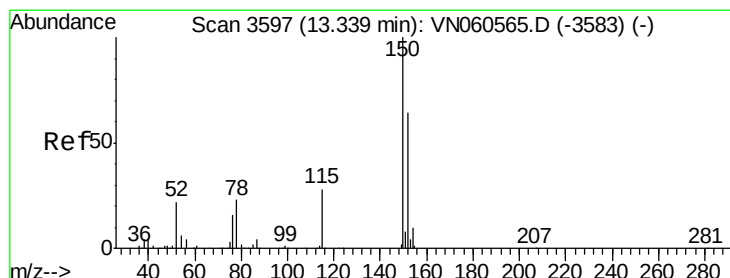
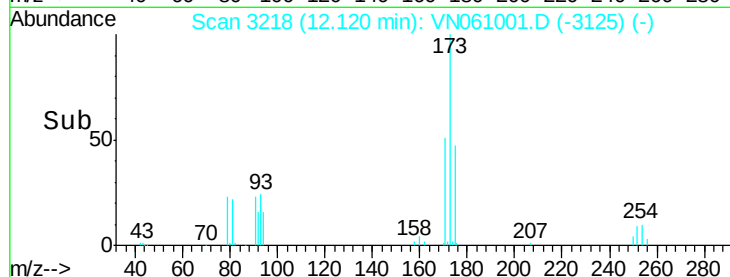
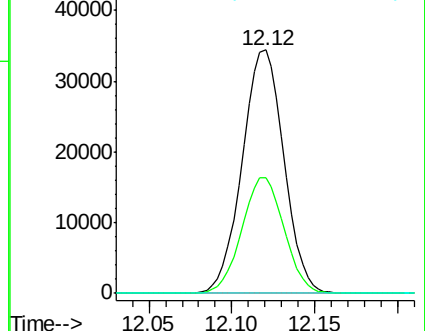
4/16/2020 11:15:12 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

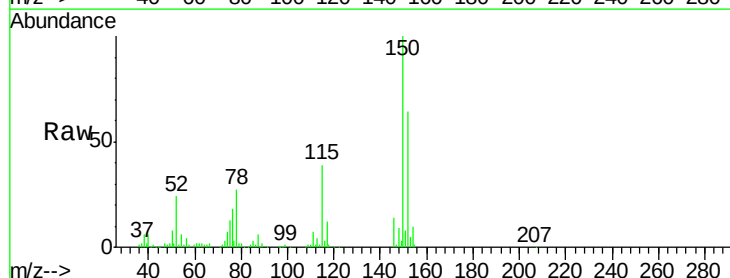
Tgt Ion:152 Resp: 103558

Ion Ratio Lower Upper

152 100

115 61.4 30.2 90.6

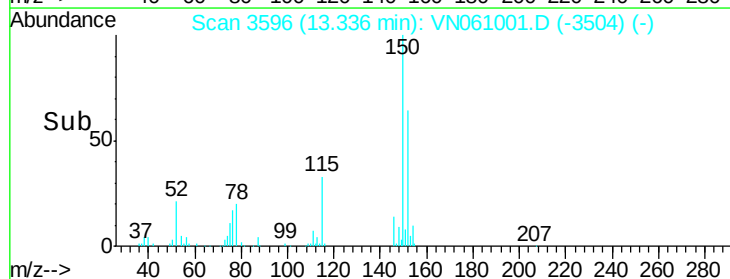
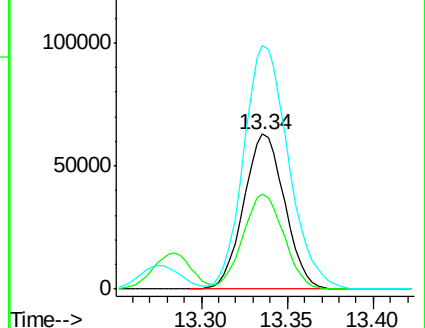
150 172.5 0.0 350.2

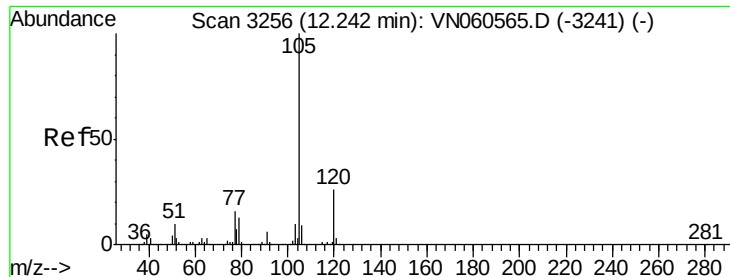


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 47.533 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 369408

Ion Ratio Lower Upper

105 100

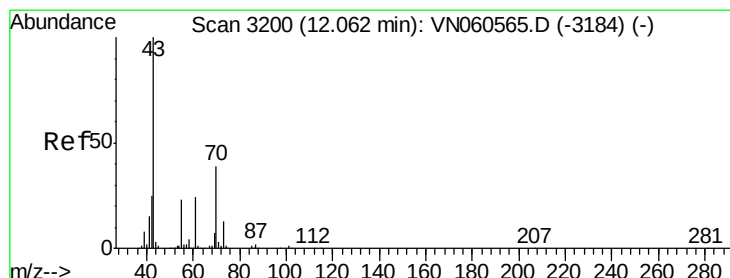
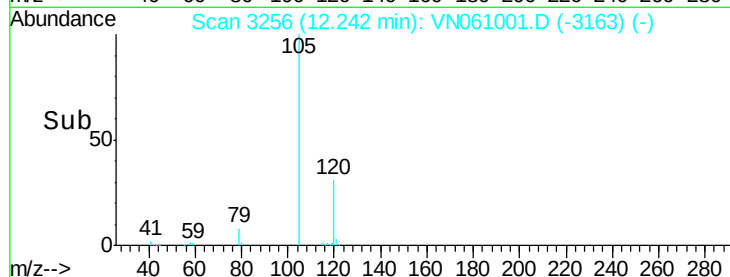
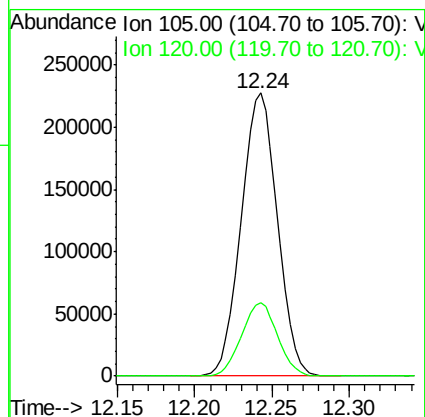
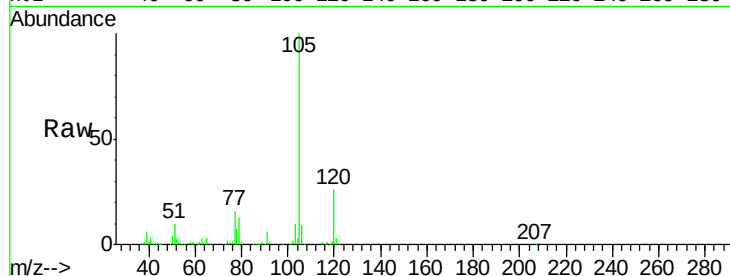
120 25.8 13.1 39.1

Manual Integrations

APPROVED

MMDadoda

4/16/2020 11:15:12 AM



#74

N-ethyl acetate

Concen: 49.822 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Tgt Ion: 43 Resp: 178918

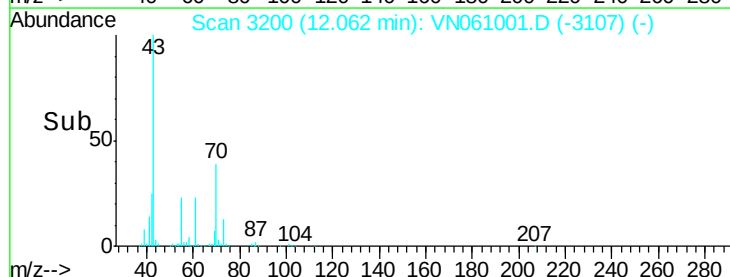
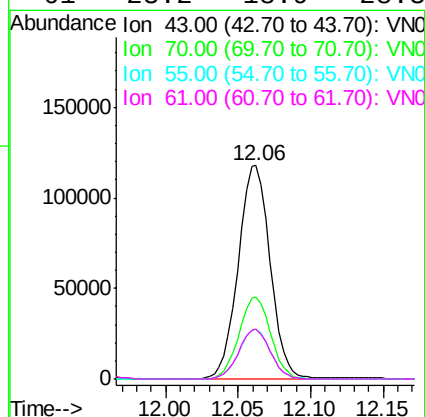
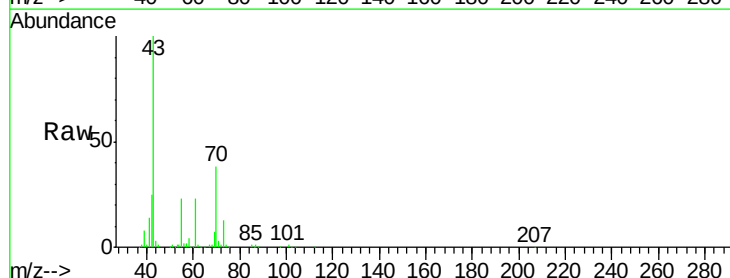
Ion Ratio Lower Upper

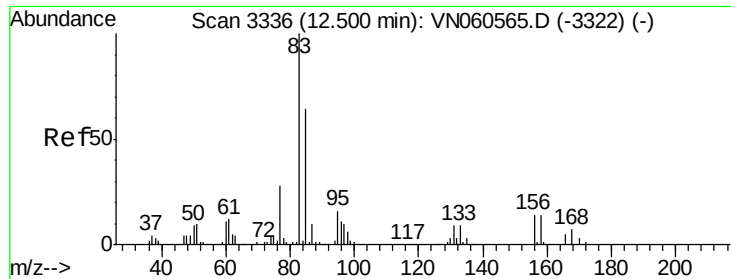
43 100

70 38.5 31.1 46.7

55 23.2 18.6 27.8

61 23.2 18.9 28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 51.380 ug/l

RT: 12.50 min Scan# 3335

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

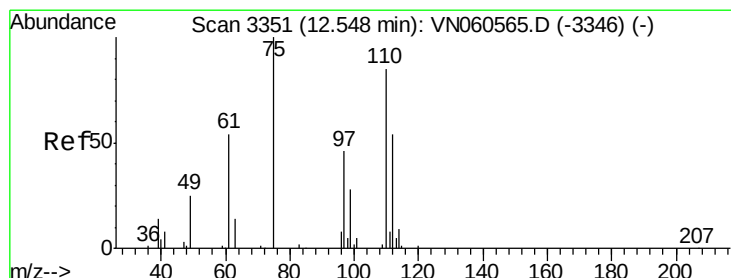
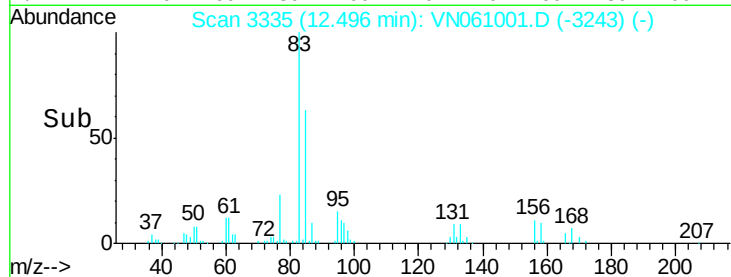
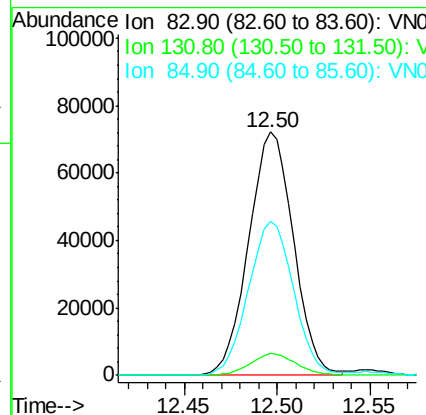
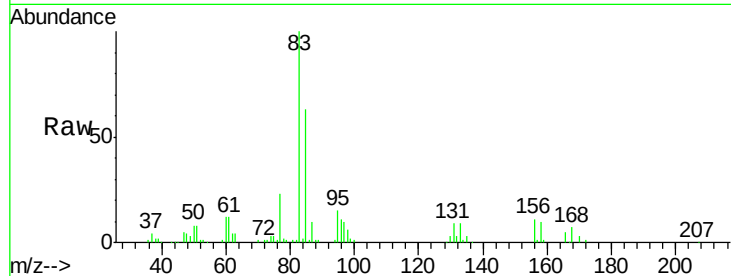
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	120754
Ion Ratio	Lower	Upper	
83	100		
131	9.0	4.9	14.7
85	63.9	32.5	97.4

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM



#76

1,2,3-Trichloropropane

Concen: 44.473 ug/l m

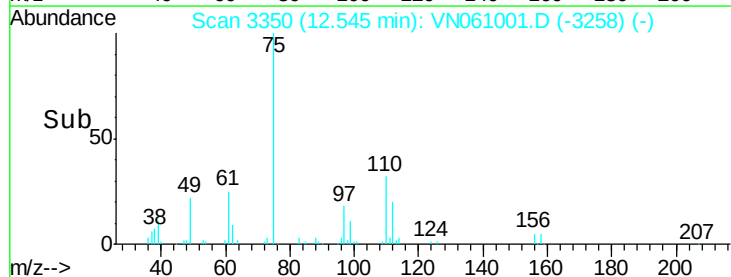
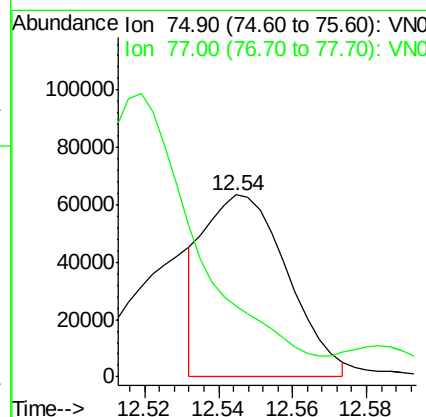
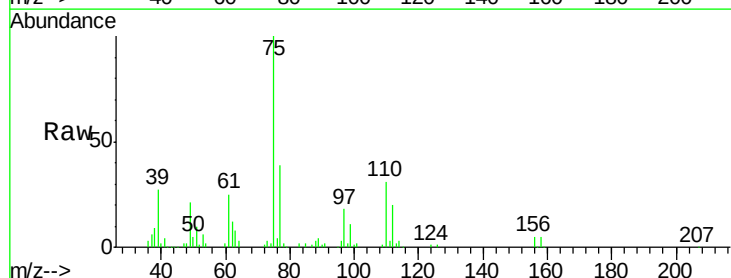
RT: 12.54 min Scan# 3350

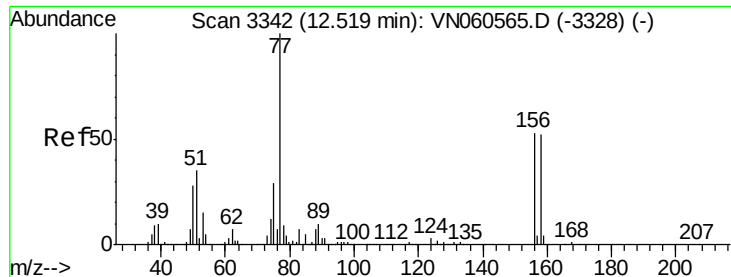
Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Tgt Ion:	75	Resp:	99379
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 46.687 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 87430

Ion Ratio Lower Upper

156 100

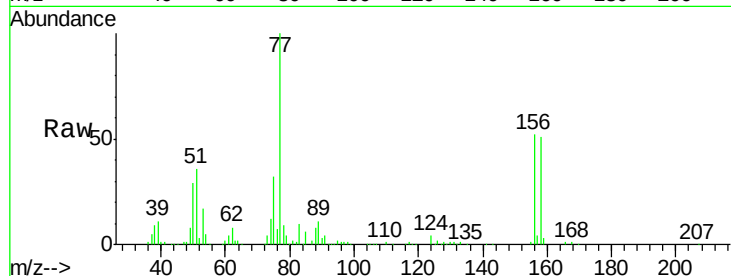
77 227.8 112.3 337.0

158 96.8 48.6 145.8

Manual Integrations
APPROVED

MMDadoda

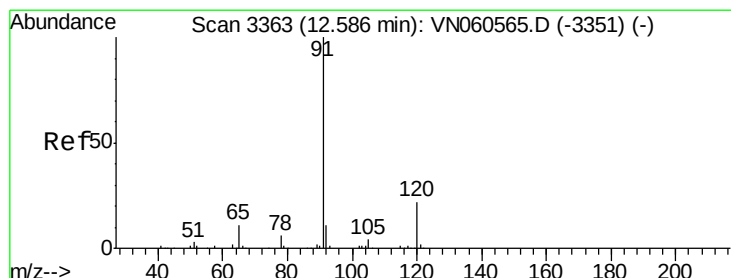
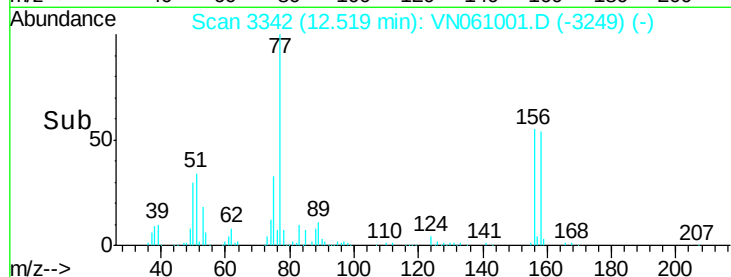
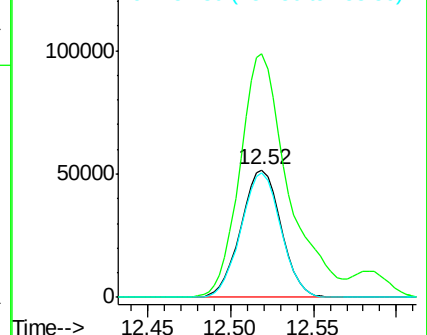
4/16/2020 11:15:12 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 47.338 ug/l

RT: 12.58 min Scan# 3362

Delta R.T. -0.00 min

Lab File: VN061001.D

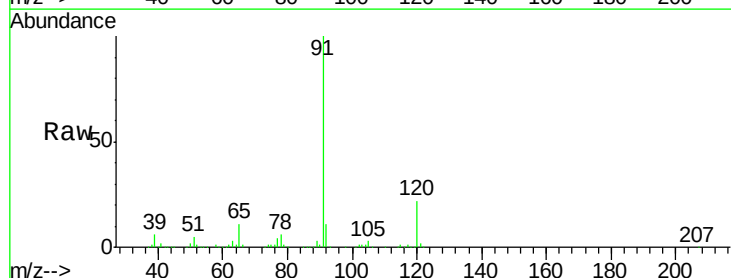
Acq: 16 Apr 2020 6:36

Tgt Ion: 91 Resp: 434646

Ion Ratio Lower Upper

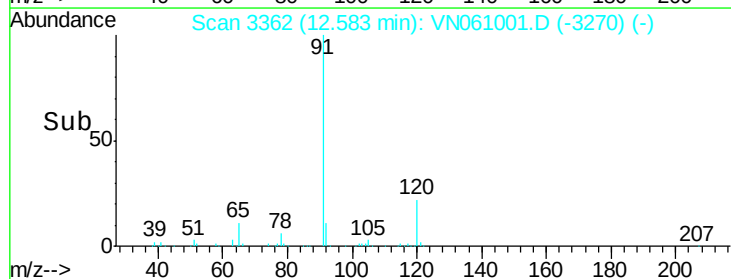
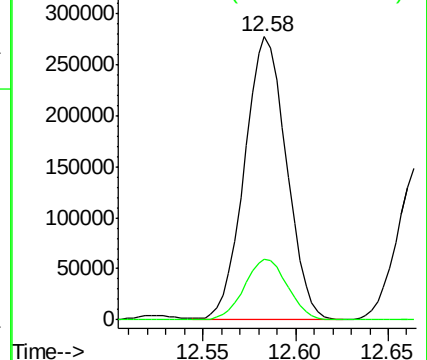
91 100

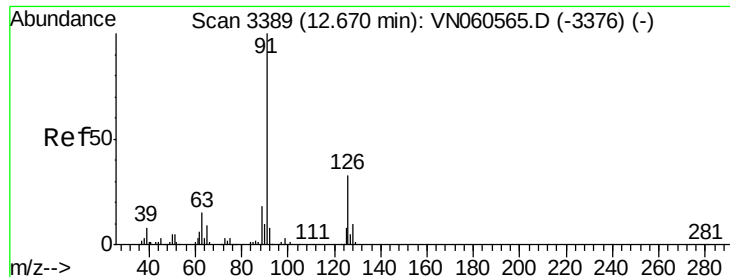
120 21.9 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 46.752 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 256481

Ion Ratio Lower Upper

91 100

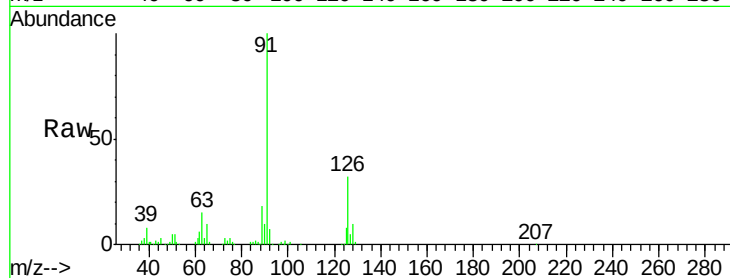
126 32.6 16.4 49.1

Manual Integrations

APPROVED

MMDadoda

4/16/2020 11:15:12 AM



Abundance Ion 91.00 (90.70 to 91.70): VN061001.D (-3388) (-)

Ion 125.90 (125.60 to 126.60): VN061001.D (-3388) (-)

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

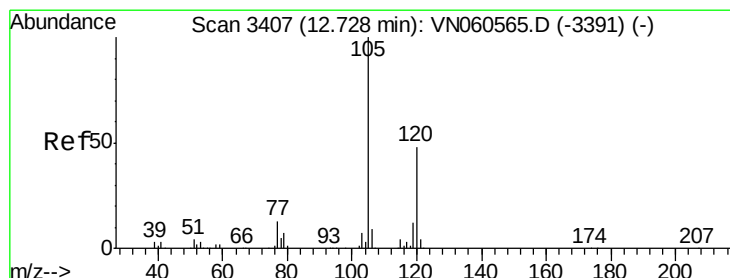
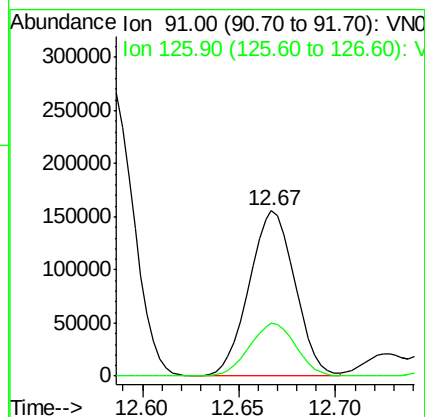
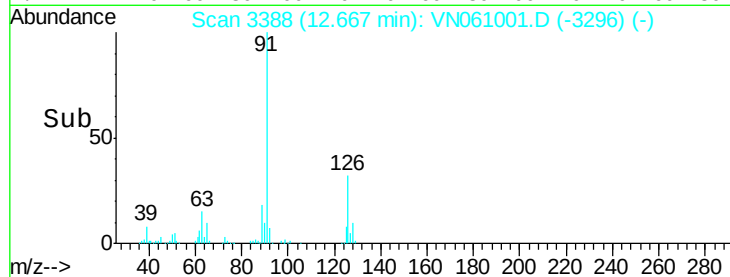
125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60

125.90 125.60 126.60



#80

1,3,5-Trimethylbenzene

Concen: 46.630 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN061001.D

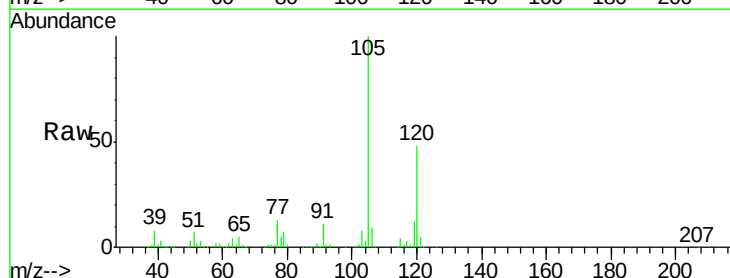
Acq: 16 Apr 2020 6:36

Tgt Ion:105 Resp: 307536

Ion Ratio Lower Upper

105 100

120 47.7 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN061001.D (-3407) (-)

Ion 120.00 (119.70 to 120.70): VN061001.D (-3407) (-)

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

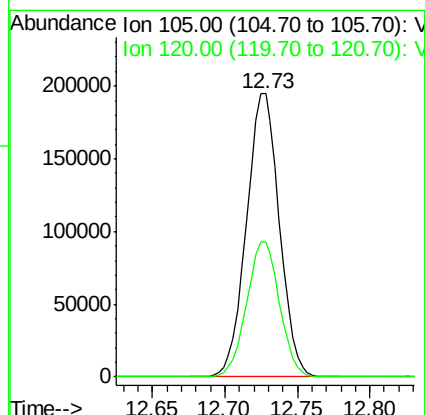
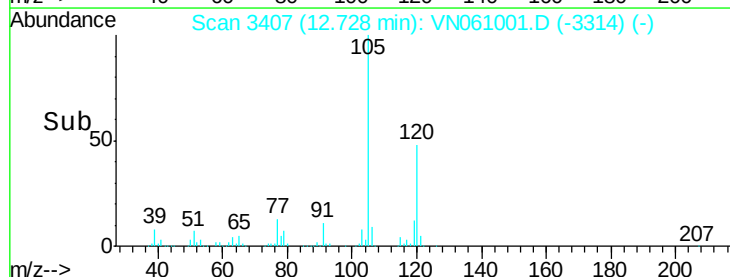
120.00 119.70 120.70

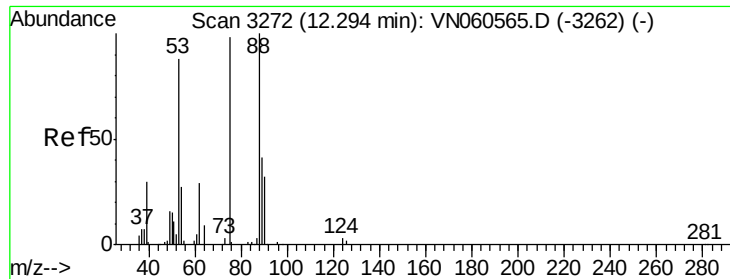
120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70

120.00 119.70 120.70





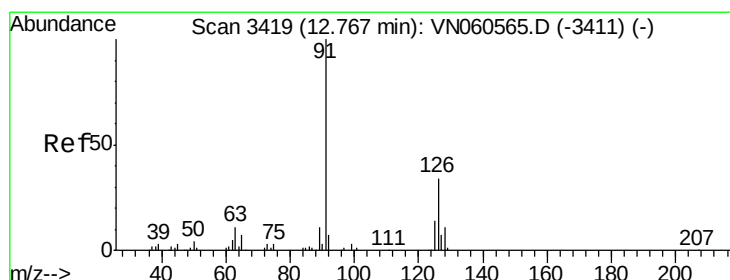
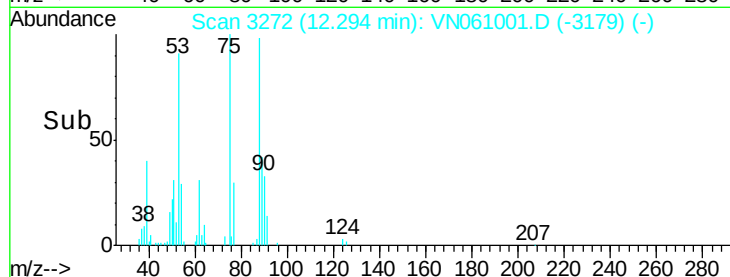
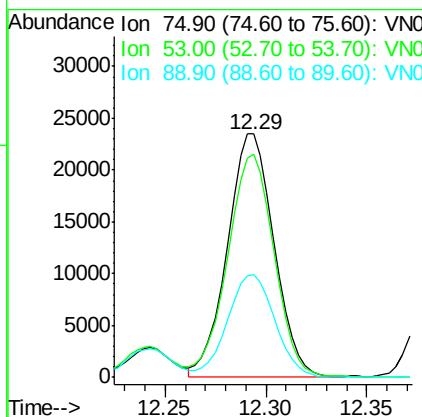
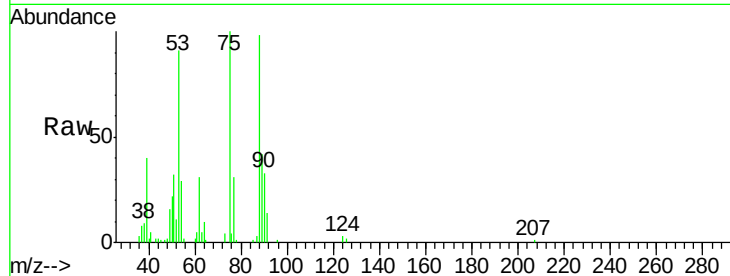
#81
trans-1,4-Dichloro-2-butene
Concen: 43.740 ug/l
RT: 12.29 min Scan# 3272
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	91.7	73.0	109.4
89	42.6	34.8	52.2

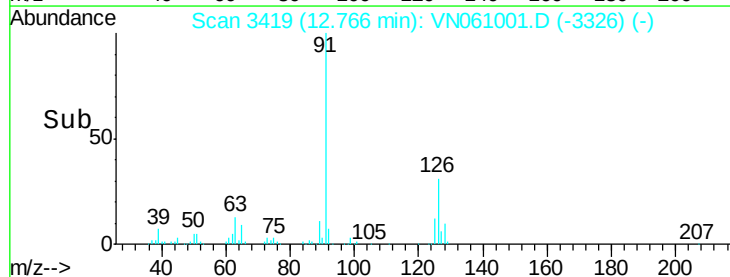
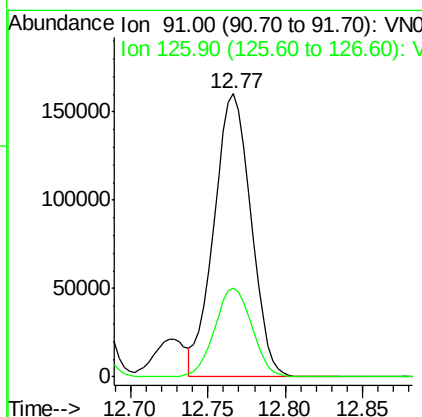
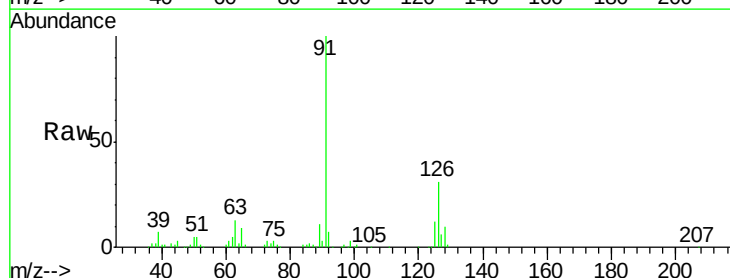
Manual Integrations
APPROVED

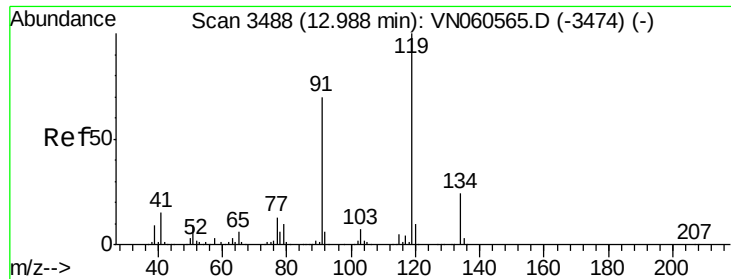
MMDadoda
4/16/2020 11:15:12 AM



#82
4-Chlorotoluene
Concen: 47.743 ug/l
RT: 12.77 min Scan# 3419
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.2	48.5





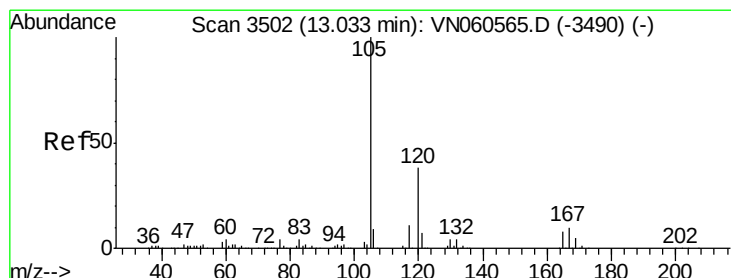
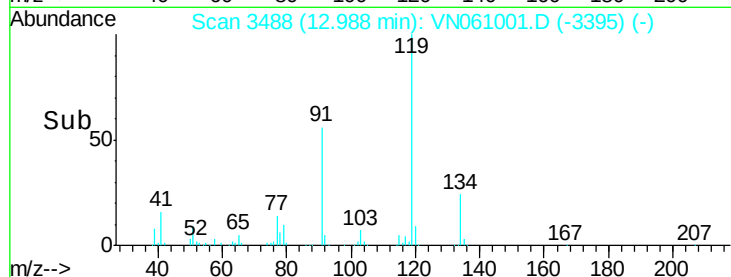
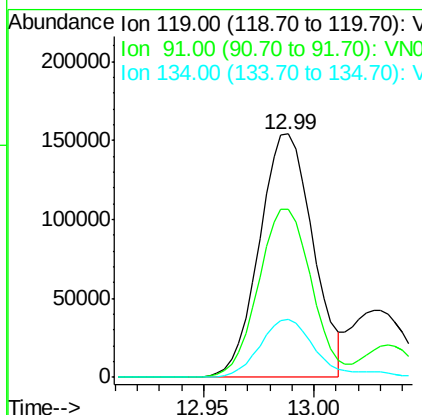
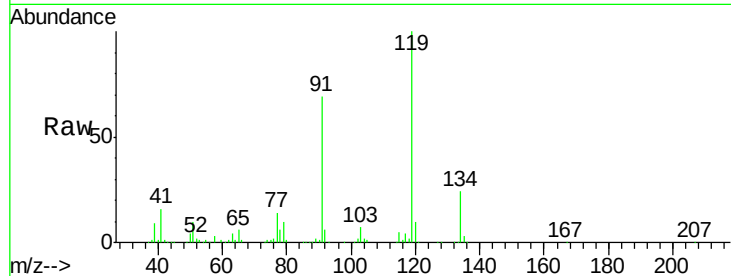
#83
 tert-Butylbenzene
 Concen: 47.421 ug/l
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.6	34.0	101.8
134	25.4	12.7	38.0

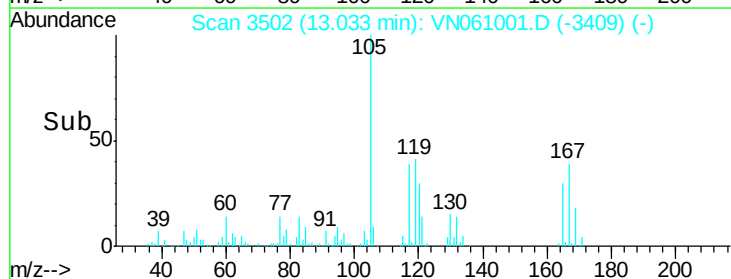
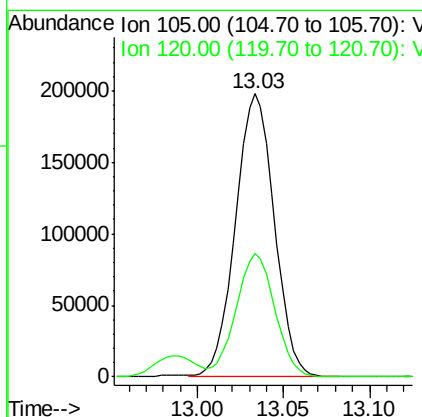
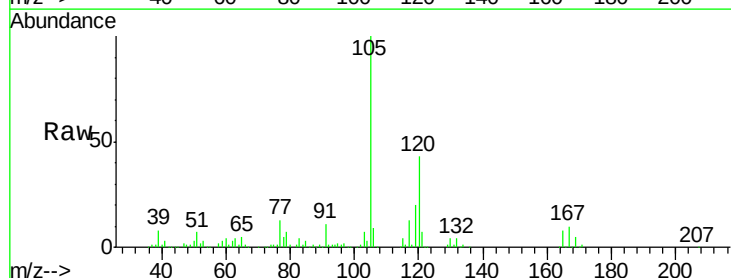
Manual Integrations
 APPROVED

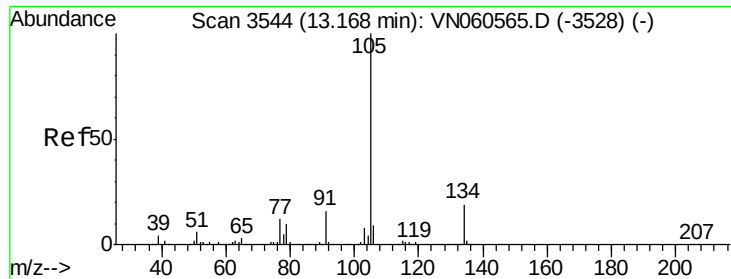
MMDadoda
 4/16/2020 11:15:12 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 47.601 ug/l
 RT: 13.03 min Scan# 3502
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.1	66.5





#85

sec-Butylbenzene

Concen: 48.350 ug/l

RT: 13.17 min Scan# 3543

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 355459

Ion Ratio Lower Upper

105 100

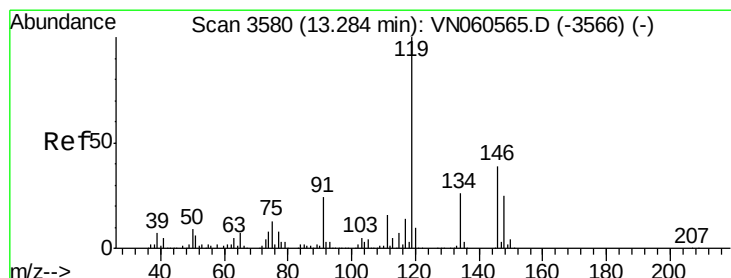
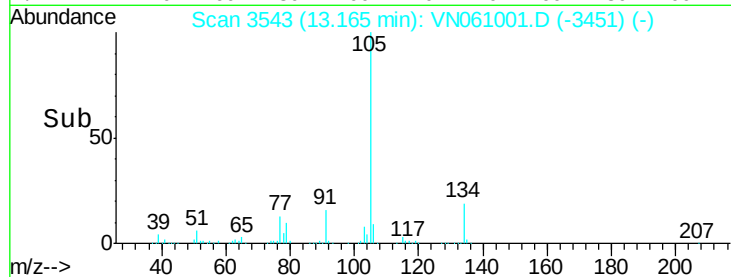
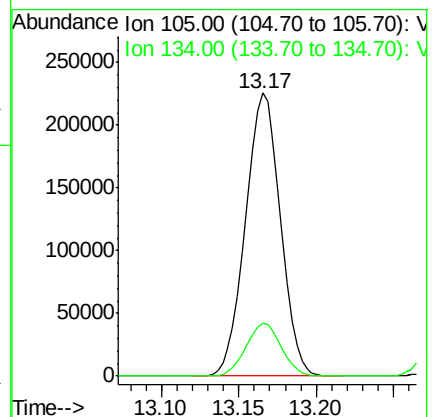
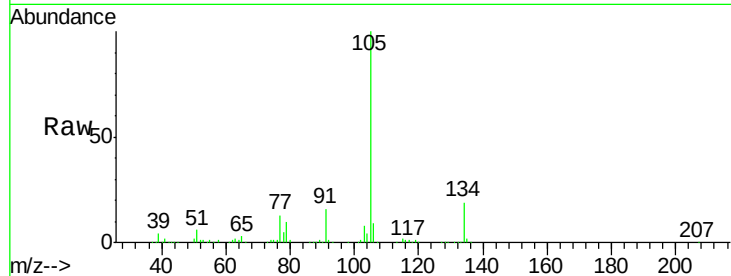
134 18.9 9.6 28.8

Manual Integrations

APPROVED

MMDadoda

4/16/2020 11:15:12 AM



#86

p-Isopropyltoluene

Concen: 47.588 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

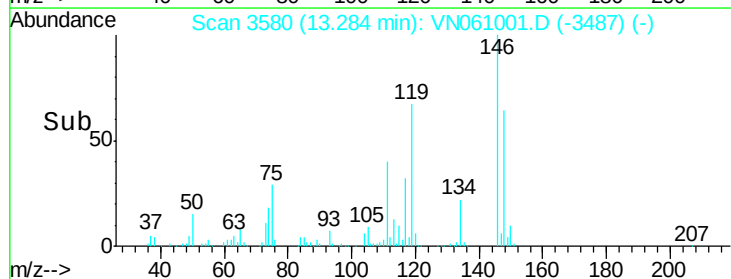
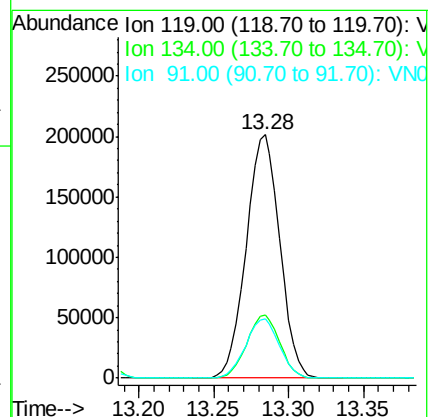
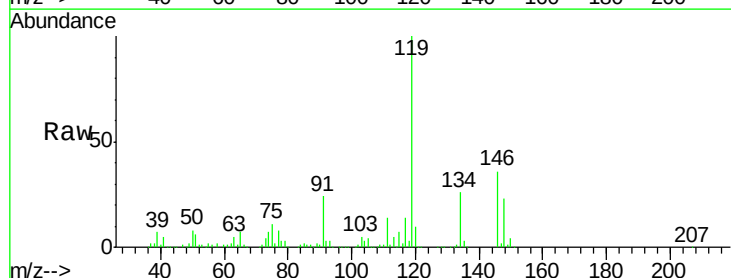
Tgt Ion:119 Resp: 314603

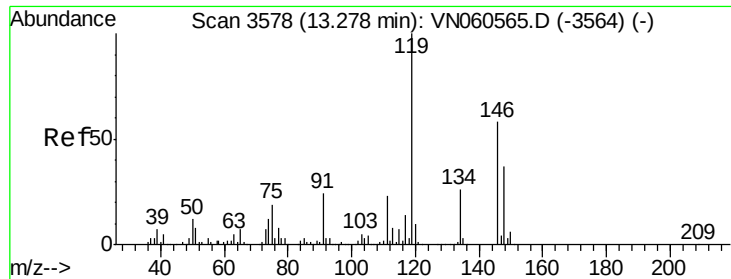
Ion Ratio Lower Upper

119 100

134 25.5 13.0 39.0

91 24.5 12.0 36.0





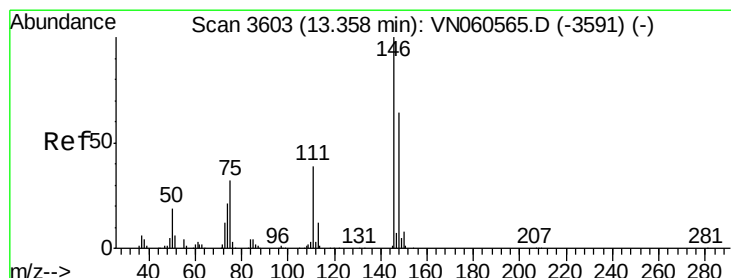
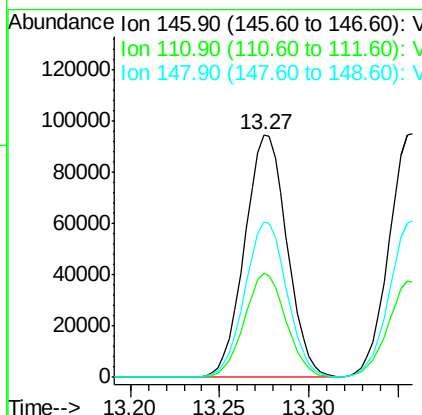
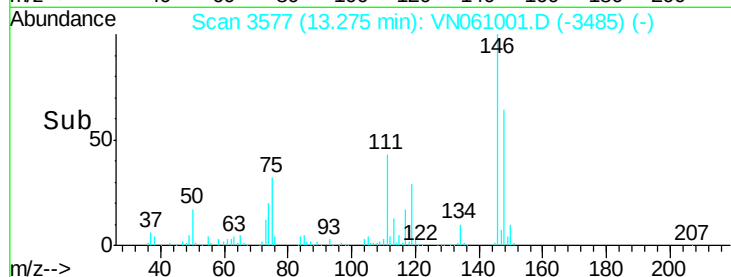
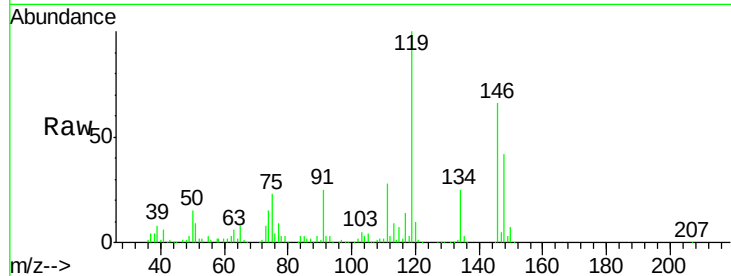
#87
 1,3-Dichlorobenzene
 Concen: 47.432 ug/l
 RT: 13.27 min Scan# 3577
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
146	100	156661		
111	42.2	20.3	60.8	
148	63.9	32.5	97.4	

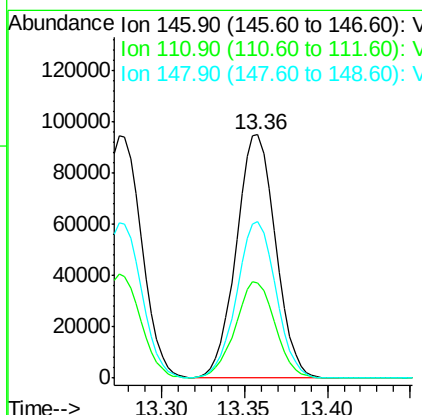
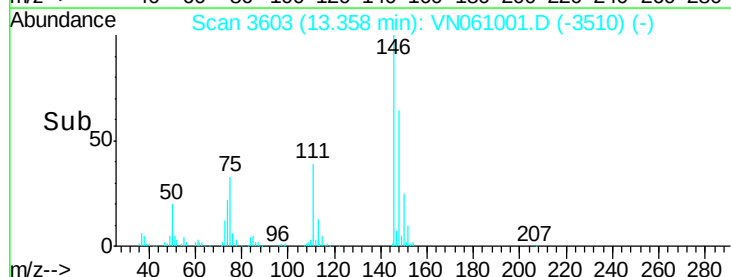
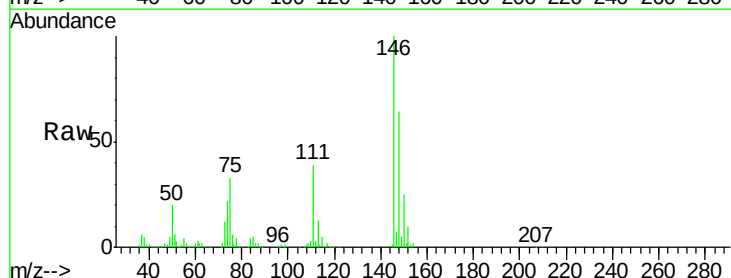
Manual Integrations
 APPROVED

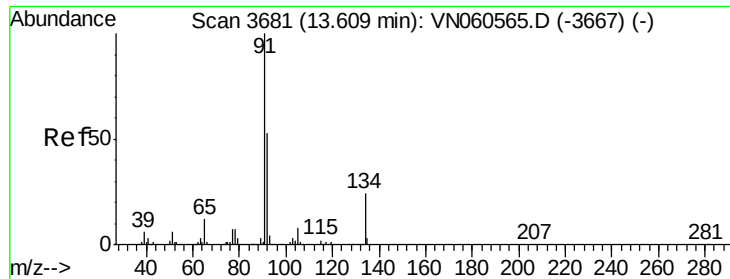
MMDadoda
 4/16/2020 11:15:12 AM



#88
 1,4-Dichlorobenzene
 Concen: 47.251 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	156795		
111	40.1	19.6	58.7	
148	64.2	32.1	96.3	





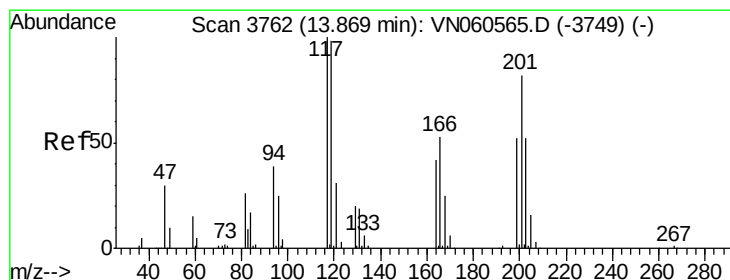
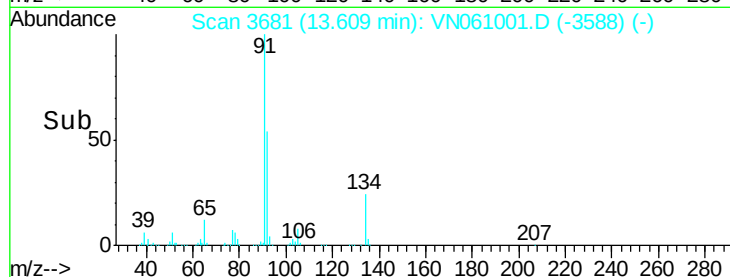
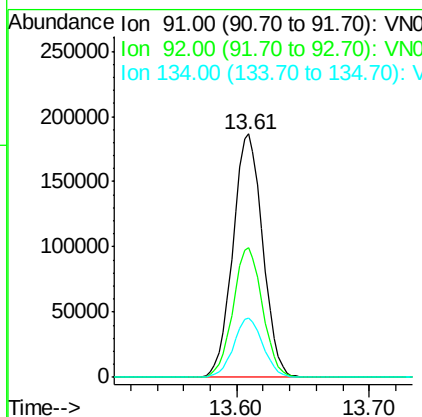
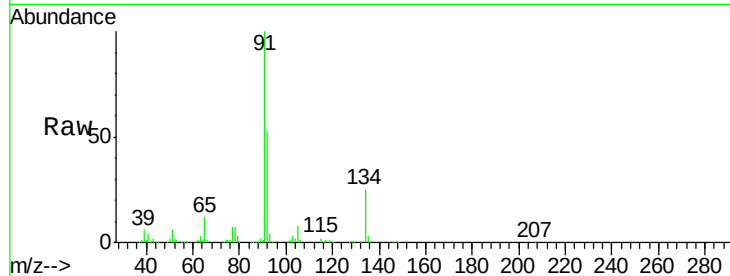
#89
n-Butylbenzene
Concen: 48.710 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.2	78.5
134	24.0	12.3	36.9

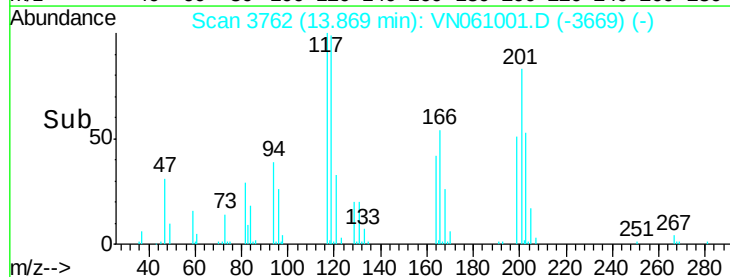
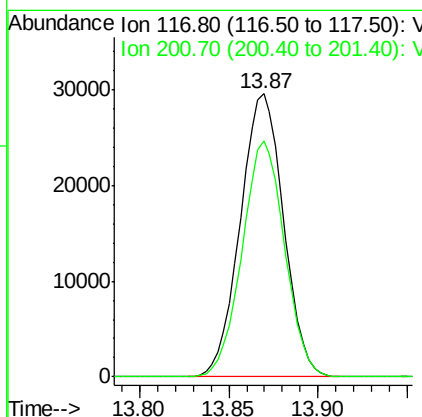
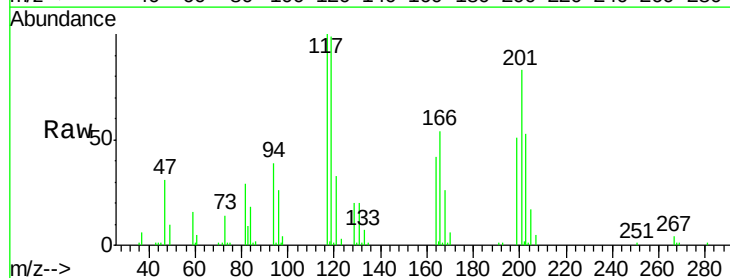
Manual Integrations
APPROVED

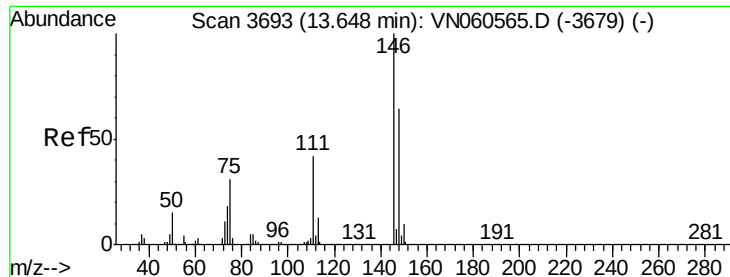
MMDadoda
4/16/2020 11:15:12 AM



#90
Hexachloroethane
Concen: 52.101 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.7	40.8	122.5





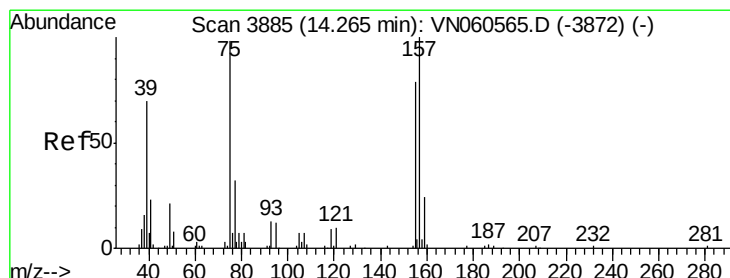
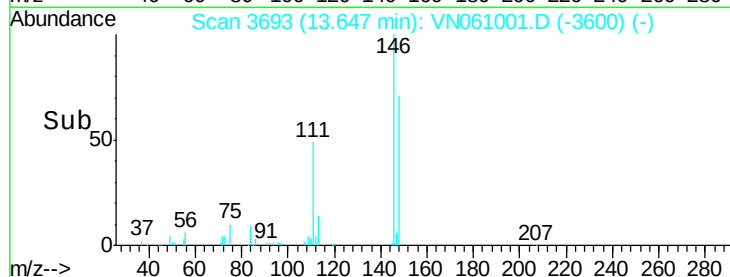
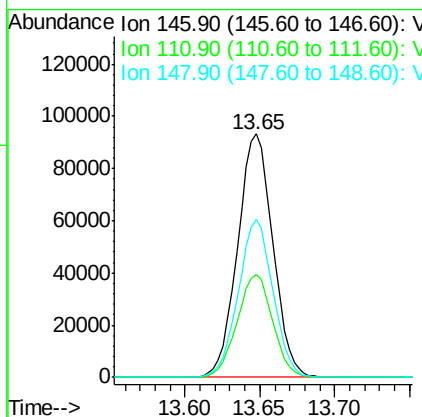
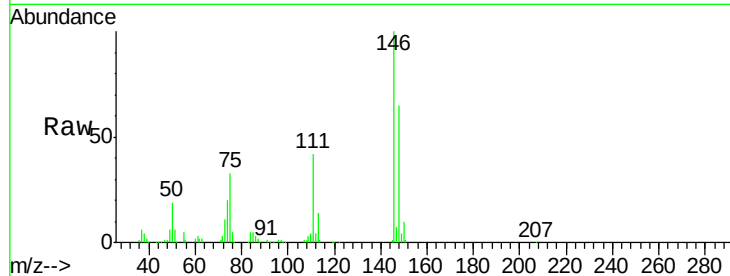
#91
 1,2-Dichlorobenzene
 Concen: 48.388 ug/l
 RT: 13.65 min Scan# 3693
 Delta R.T. -0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.0	63.0
148	63.7	31.9	95.5

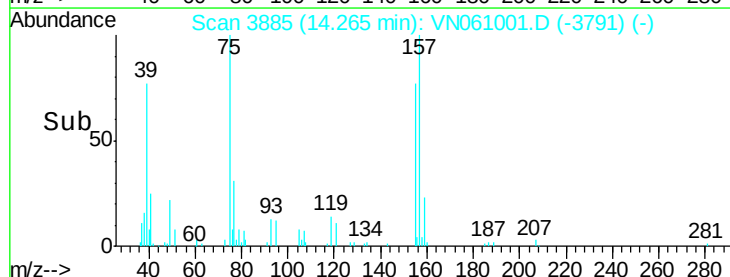
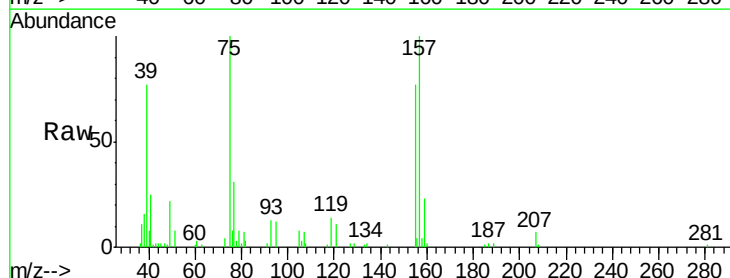
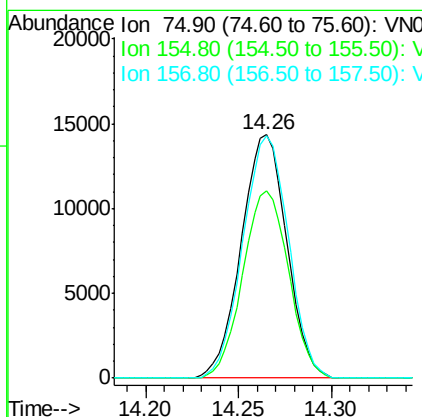
Manual Integrations
 APPROVED

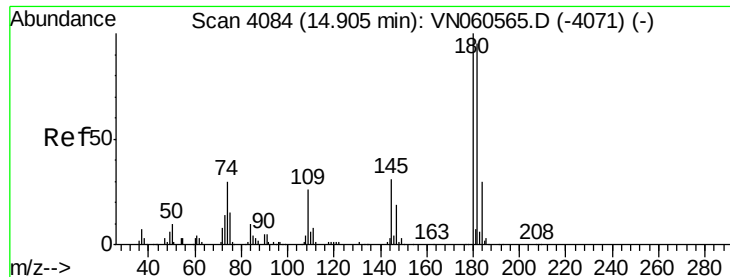
MMDadoda
 4/16/2020 11:15:12 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.788 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN061001.D
 Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.1	40.7	122.1
157	99.2	51.5	154.7





#93

1,2,4-Trichlorobenzene

Concen: 49.816 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN061001.D

Acq: 16 Apr 2020 6:36

Instrument :

MSVOA_N

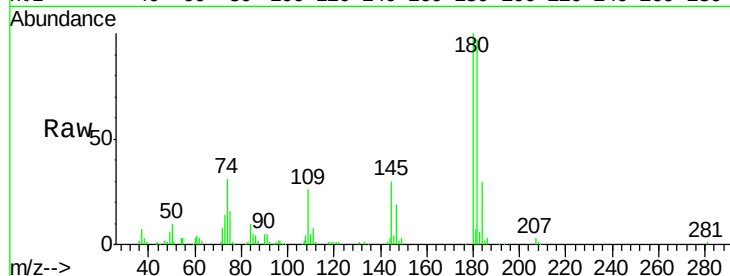
ClientSampleId :

VSTDCCC050EC

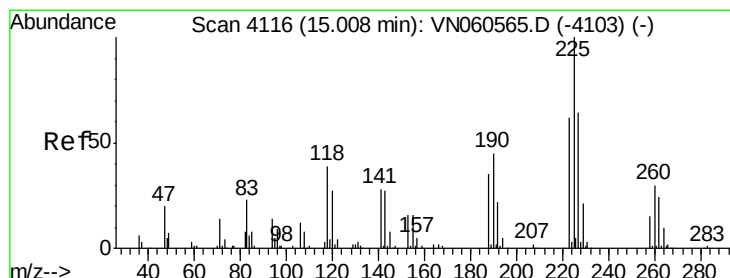
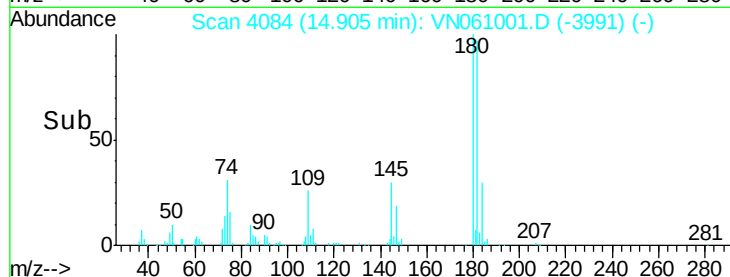
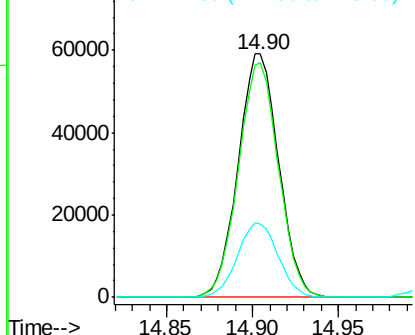
Tot Ion:	180	Resp:	96615
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.9	143.8
145	30.8	15.4	46.2

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 46.626 ug/l

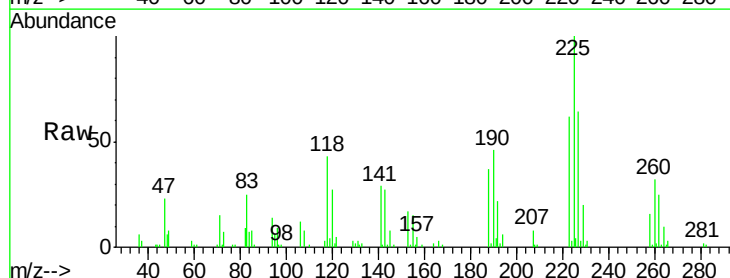
RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

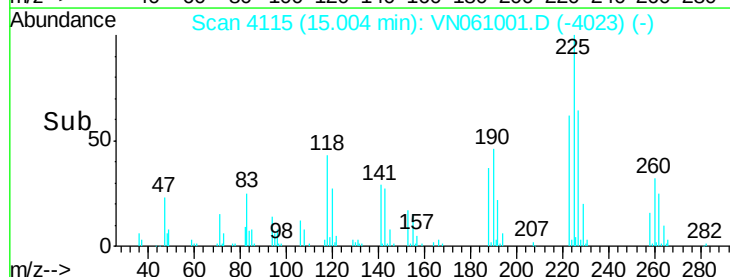
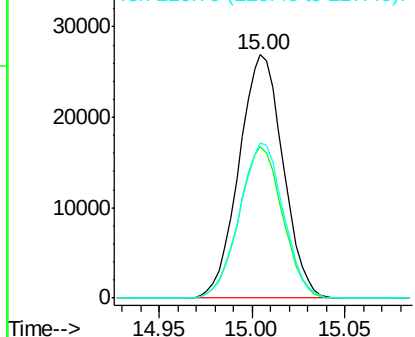
Lab File: VN061001.D

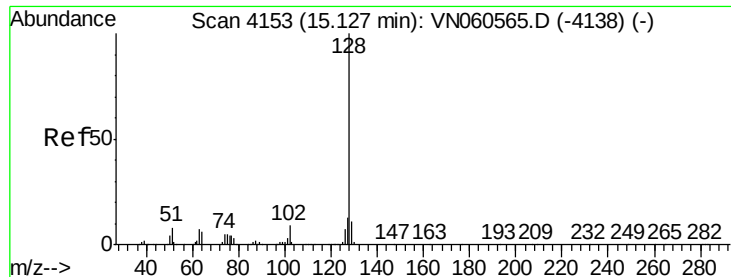
Acq: 16 Apr 2020 6:36

Tgt Ion:	225	Resp:	44330
Ion Ratio	Lower	Upper	
225	100		
223	61.4	31.6	95.0
227	63.4	32.3	96.8



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





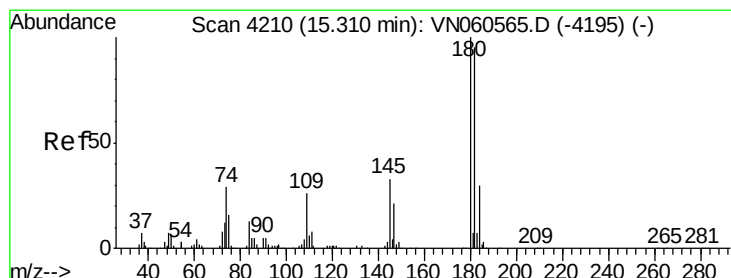
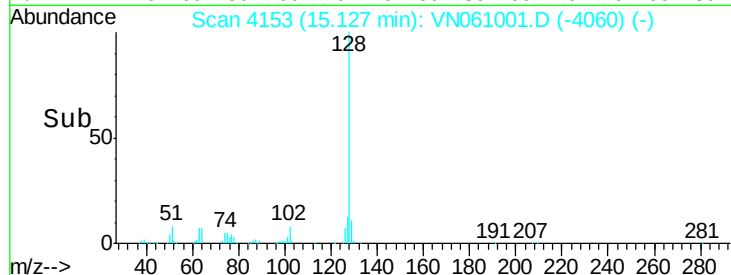
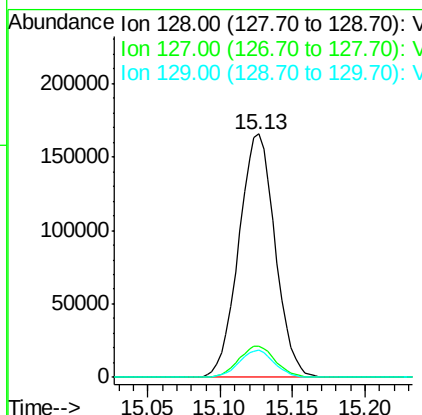
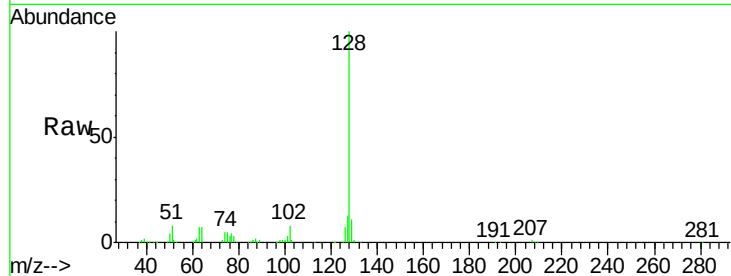
#95
Naphthalene
Concen: 49.401 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
128	100	288173		
127	13.0		10.2	15.2
129	10.8		8.8	13.2

Manual Integrations
APPROVED

MMDadoda
4/16/2020 11:15:12 AM



#96
1,2,3-Trichlorobenzene
Concen: 49.336 ug/l
RT: 15.31 min Scan# 4209
Delta R.T. -0.00 min
Lab File: VN061001.D
Acq: 16 Apr 2020 6:36

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	94246		
182	95.4		47.5	142.6
145	31.6		16.3	48.8

