

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\
 Data File : VN055696.D
 Acq On : 21 May 2019 9:27
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/22/2019 4:11:07 PM

Quant Time: May 22 06:46:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	335687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	475555	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	417196	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	193460	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	163047	44.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.62%	
35) Dibromofluoromethane	7.59	113	151863	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
50) Toluene-d8	10.09	98	575316	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
62) 4-Bromofluorobenzene	12.40	95	199535	50.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	128505	49.754	ug/l	98
3) Chloromethane	2.06	50	161811	46.970	ug/l	99
4) Vinyl Chloride	2.18	62	182974	49.049	ug/l	99
5) Bromomethane	2.53	94	120066	50.503	ug/l	100
6) Chloroethane	2.68	64	107058	51.687	ug/l	100
7) Trichlorofluoromethane	3.01	101	248201	51.921	ug/l	99
8) Diethyl Ether	3.41	74	98818	51.457	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	160186	54.965	ug/l	98
10) Methyl Iodide	3.95	142	212469	50.570	ug/l	98
11) Tert butyl alcohol	4.77	59	168209	245.124	ug/l	99
12) 1,1-Dichloroethene	3.73	96	154295	50.330	ug/l	97
13) Acrolein	3.60	56	86271	246.484	ug/l	99
14) Allyl chloride	4.32	41	247160	49.940	ug/l	99
15) Acrylonitrile	4.98	53	394022	258.084	ug/l	100
16) Acetone	3.81	43	415088	276.411	ug/l	98
17) Carbon Disulfide	4.05	76	404235	47.432	ug/l	100
18) Methyl Acetate	4.32	43	163977	50.933	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	517054	50.981	ug/l	98
20) Methylene Chloride	4.55	84	174695	50.974	ug/l	95
21) trans-1,2-Dichloroethene	5.04	96	165512	50.680	ug/l	95
22) Diisopropyl ether	5.95	45	495973	50.573	ug/l	96
23) Vinyl Acetate	5.89	43	2115676	254.245	ug/l	98
24) 1,1-Dichloroethane	5.85	63	294217	51.166	ug/l	100
25) 2-Butanone	6.83	43	549112	261.518	ug/l	98
26) 2,2-Dichloropropane	6.82	77	267725	52.459	ug/l	100
27) cis-1,2-Dichloroethene	6.82	96	195758	51.476	ug/l	97
28) Bromochloromethane	7.19	49	113843	45.507	ug/l	95
29) Tetrahydrofuran	7.21	42	332571	239.074	ug/l	97
30) Chloroform	7.37	83	300291	50.874	ug/l	99
31) Cyclohexane	7.65	56	264620	48.488	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	268846	50.781	ug/l	99
36) 1,1-Dichloropropene	7.79	75	225416	53.166	ug/l	98
37) Ethyl Acetate	6.92	43	208369	54.462	ug/l	98
38) Carbon Tetrachloride	7.77	117	243390	53.720	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\
 Data File : VN055696.D
 Acq On : 21 May 2019 9:27
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/22/2019 4:11:07 PM

Quant Time: May 22 06:46:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	285507	55.860	ug/l	99
40) Benzene	8.04	78	689539	55.293	ug/l	100
41) Methacrylonitrile	7.18	41	105674m	64.603	ug/l	
42) 1,2-Dichloroethane	8.12	62	225181	55.762	ug/l	100
43) Isopropyl Acetate	8.16	43	367010	55.146	ug/l	99
44) Trichloroethene	8.83	130	201384	57.229	ug/l	98
45) 1,2-Dichloropropane	9.12	63	180250	54.866	ug/l	100
46) Dibromomethane	9.21	93	120736	56.150	ug/l	97
47) Bromodichloromethane	9.40	83	245664	54.513	ug/l	100
48) Methyl methacrylate	9.20	41	164087	55.161	ug/l	97
49) 1,4-Dioxane	9.20	88	72045	1218.854	ug/l	93
51) 4-Methyl-2-Pentanone	9.98	43	1033836	264.825	ug/l	99
52) Toluene	10.15	92	443394	56.687	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	274069	56.505	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	299324	56.331	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	179493	55.741	ug/l	99
56) Ethyl methacrylate	10.43	69	272885	54.287	ug/l	97
57) 1,3-Dichloropropane	10.71	76	285727	56.025	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	469916	220.013	ug/l	98
59) 2-Hexanone	10.75	43	756408	275.207	ug/l	98
60) Dibromochloromethane	10.90	129	212475	58.219	ug/l	100
61) 1,2-Dibromoethane	11.00	107	184377	57.225	ug/l	99
64) Tetrachloroethene	10.63	164	189864	57.699	ug/l	98
65) Chlorobenzene	11.43	112	484878	57.462	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	191556	56.429	ug/l	100
67) Ethyl Benzene	11.51	91	848533	56.448	ug/l	100
68) m/p-Xylenes	11.62	106	653821	115.177	ug/l	97
69) o-Xylene	11.95	106	321509	57.906	ug/l	96
70) Styrene	11.96	104	539028	58.388	ug/l	98
71) Bromoform	12.13	173	169597	58.953	ug/l #	100
73) Isopropylbenzene	12.25	105	843559	62.751	ug/l	100
74) N-amyl acetate	12.07	43	292227	53.794	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	247253	58.513	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	199602m	50.563	ug/l	
77) Bromobenzene	12.53	156	224748	56.567	ug/l	94
78) n-propylbenzene	12.59	91	925979	53.899	ug/l	99
79) 2-Chlorotoluene	12.67	91	554961	60.720	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	716342	62.267	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	81370	52.986	ug/l	99
82) 4-Chlorotoluene	12.77	91	545549	53.896	ug/l	98
83) tert-Butylbenzene	12.99	119	623567	64.112	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	713696	62.053	ug/l	100
85) sec-Butylbenzene	13.17	105	801955	62.541	ug/l	99
86) p-Isopropyltoluene	13.29	119	747552	62.516	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	374188	56.961	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	363311	57.922	ug/l	98
89) n-Butylbenzene	13.61	91	593495	55.906	ug/l	100
90) Hexachloroethane	13.87	117	142167	62.325	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	366544	55.973	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	44071	50.197	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\
Data File : VN055696.D
Acq On : 21 May 2019 9:27
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM

Quant Time: May 22 06:46:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:54:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	195024	58.507	ug/l	99
94) Hexachlorobutadiene	15.01	225	132949	67.078	ug/l	99
95) Naphthalene	15.13	128	522426	51.863	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	193765	55.595	ug/l	100

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

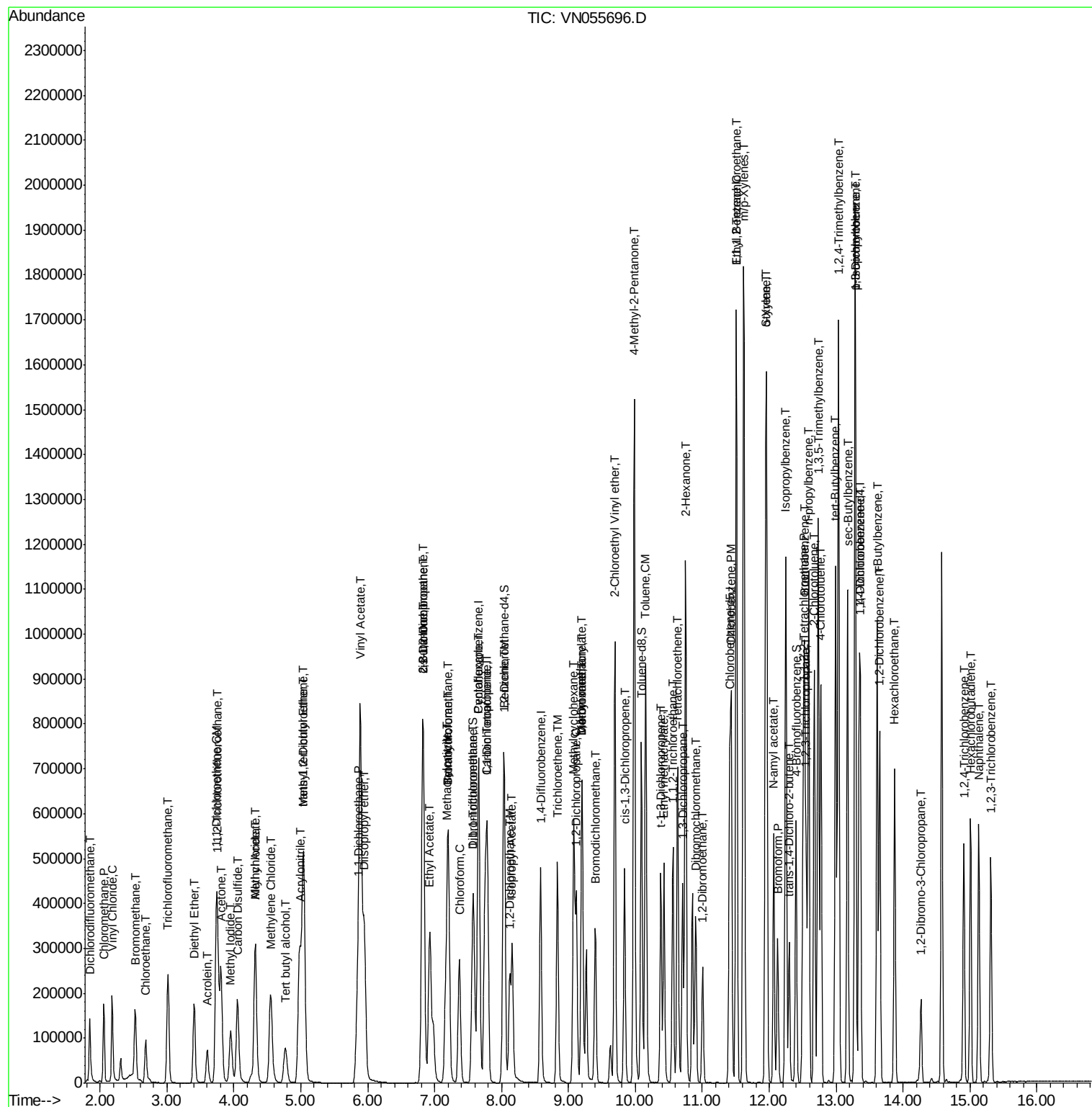
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\
 Data File : VN055696.D
 Acq On : 21 May 2019 9:27
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

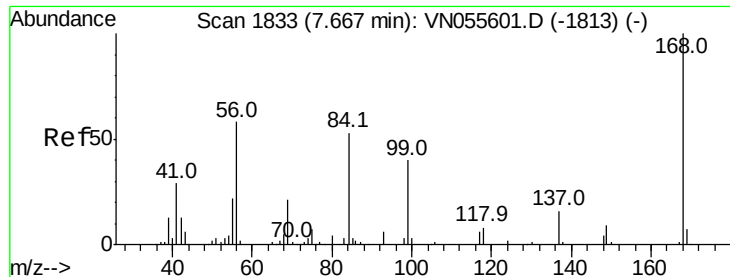
Instrument :
 MSVOA_N
 Client Sample ID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/22/2019 4:11:07 PM

Quant Time: May 22 06:46:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 335687

Ion Ratio Lower Upper

168 100

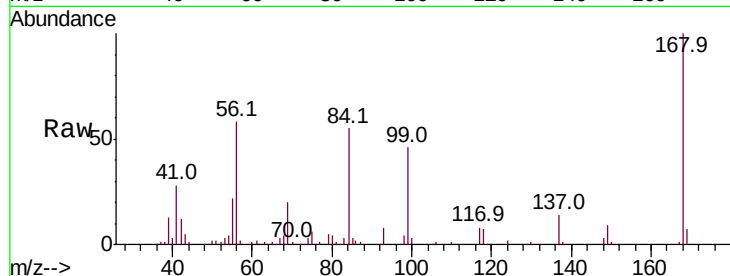
99 46.0 40.2 60.2

Manual Integrations

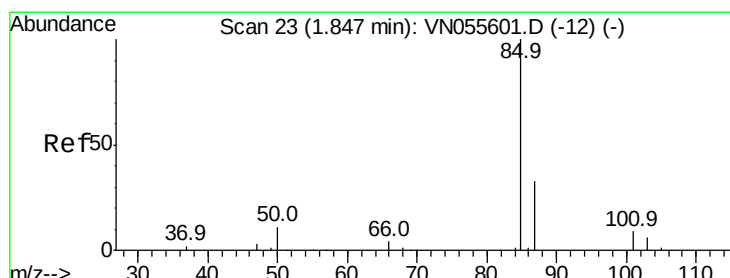
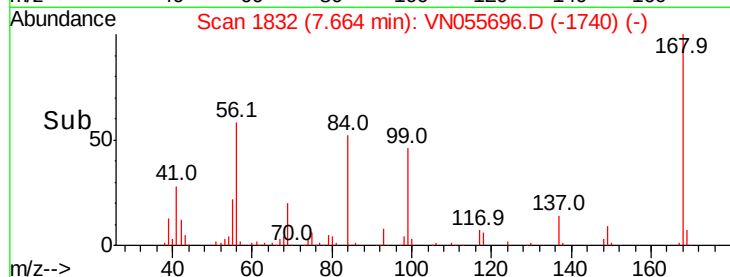
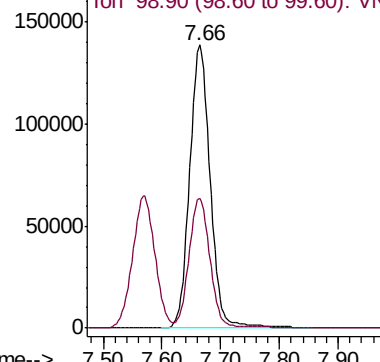
APPROVED

MMDadoda

5/22/2019 4:11:07 PM



Abundance Ion 167.90 (167.60 to 168.60): VN055601.D (-1813) (-)



#2

Dichlorodifluoromethane

Concen: 49.754 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055696.D

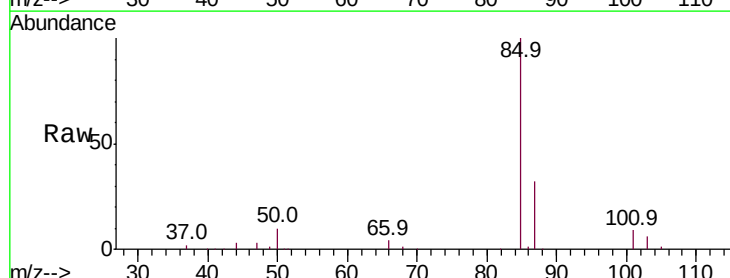
Acq: 21 May 2019 9:27

Tgt Ion: 85 Resp: 128505

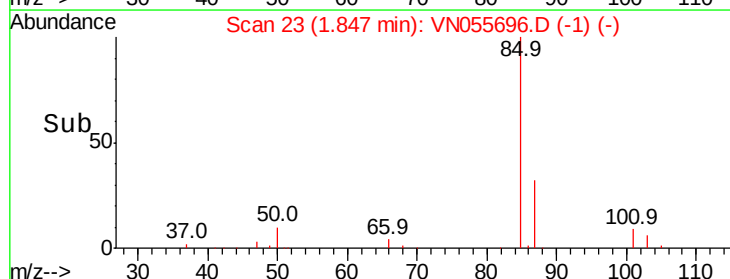
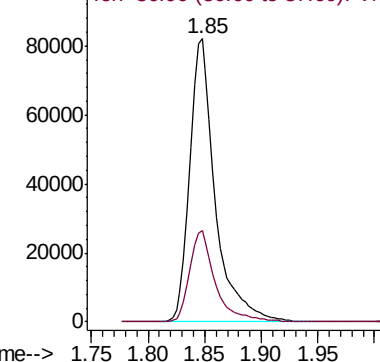
Ion Ratio Lower Upper

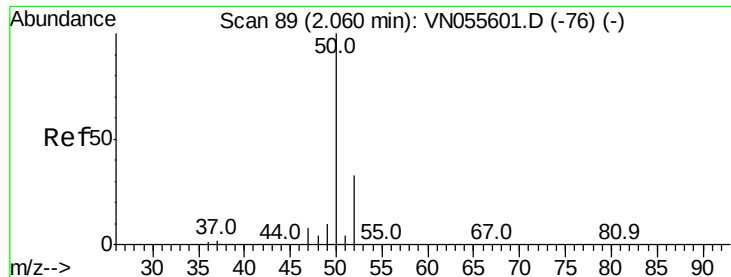
85 100

87 32.1 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VN055601.D (-12) (-)





#3

Chloromethane

Concen: 46.970 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 161811

Ion Ratio Lower Upper

50 100

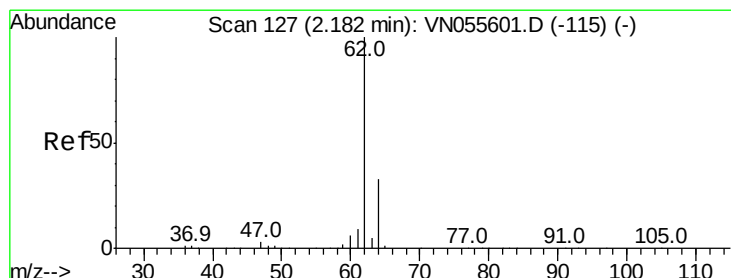
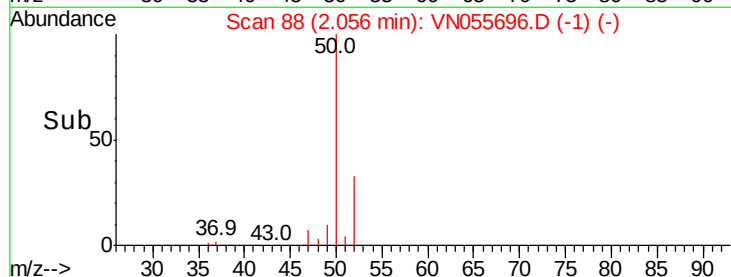
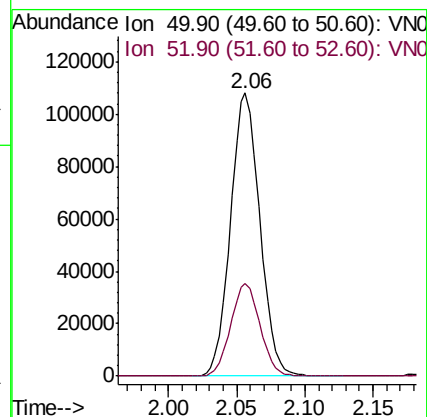
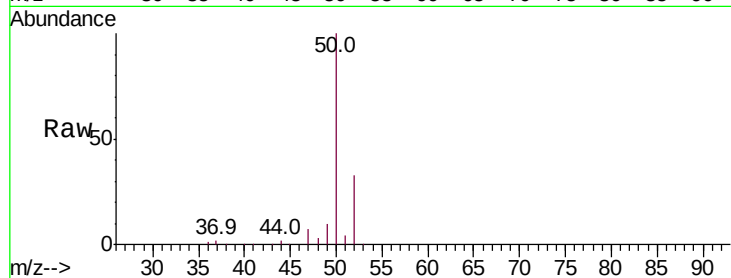
52 32.9 26.7 40.1

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:07 PM



#4

Vinyl Chloride

Concen: 49.049 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN055696.D

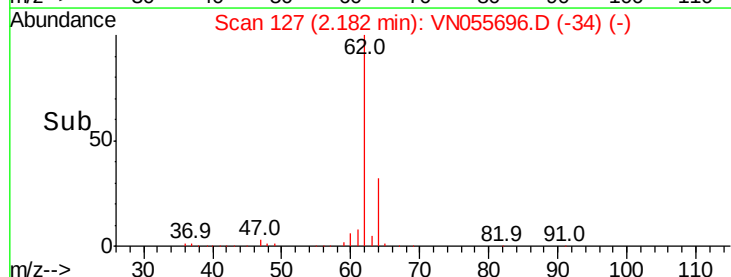
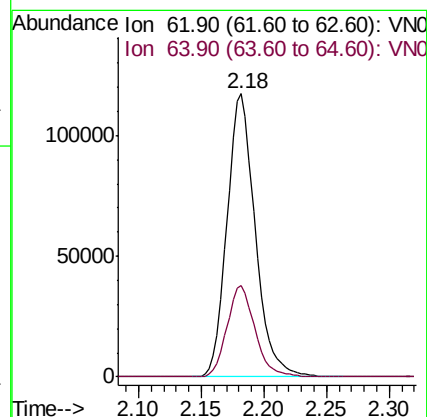
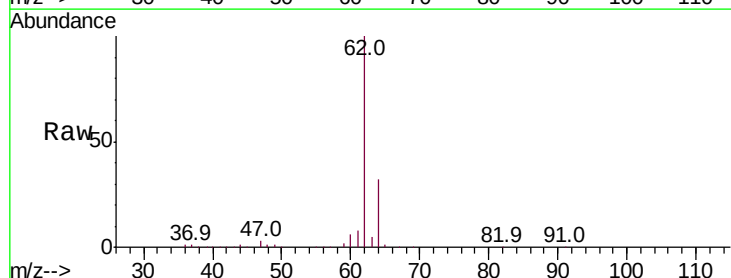
Acq: 21 May 2019 9:27

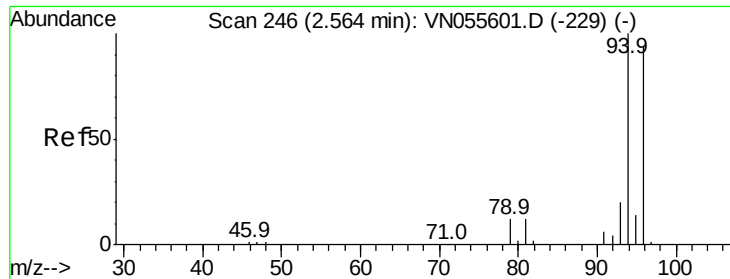
Tgt Ion: 62 Resp: 182974

Ion Ratio Lower Upper

62 100

64 32.4 26.2 39.4





#5

Bromomethane

Concen: 50.503 ug/l

RT: 2.53 min Scan# 234

Delta R.T. -0.04 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 120066

Ion Ratio Lower Upper

94 100

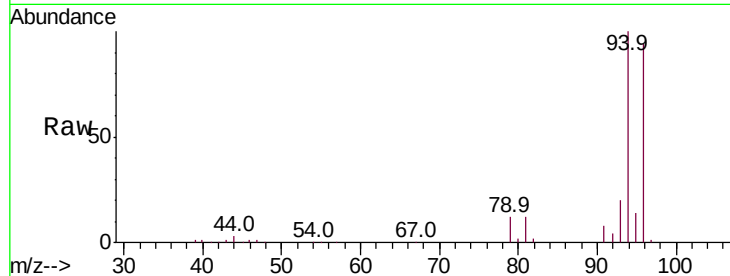
96 94.2 75.2 112.8

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:07 PM



Abundance Ion 93.90 (93.60 to 94.60): VN055601.D (-229) (-)

Ion 95.90 (95.60 to 96.60): VN055696.D (-153) (-)

2.53

60000

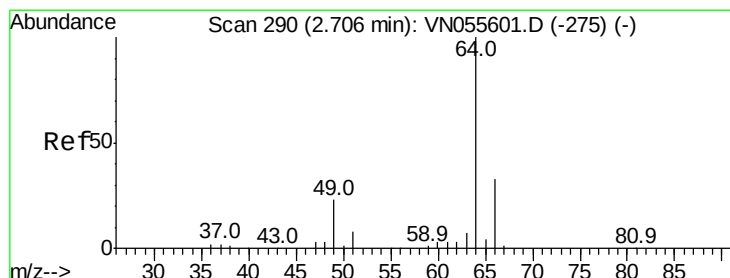
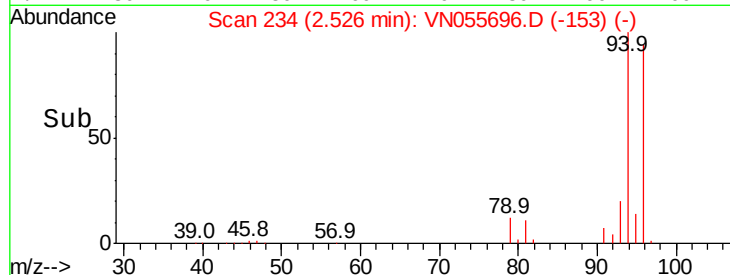
40000

20000

0

Time-->

2.45 2.50 2.55 2.60



#6

Chloroethane

Concen: 51.687 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.02 min

Lab File: VN055696.D

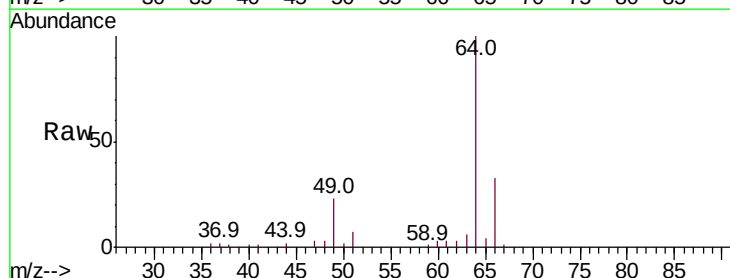
Acq: 21 May 2019 9:27

Tgt Ion: 64 Resp: 107058

Ion Ratio Lower Upper

64 100

66 32.6 26.2 39.4



Abundance Ion 63.90 (63.60 to 64.60): VN055601.D (-275) (-)

Ion 65.90 (65.60 to 66.60): VN055696.D (-197) (-)

2.68

50000

40000

30000

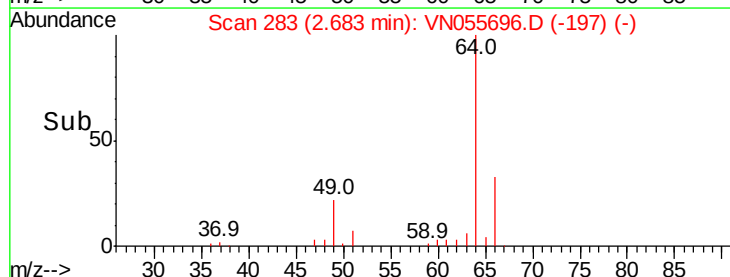
20000

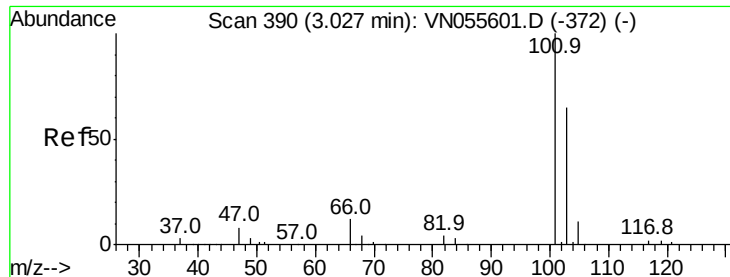
10000

0

Time-->

2.60 2.70 2.80





#7

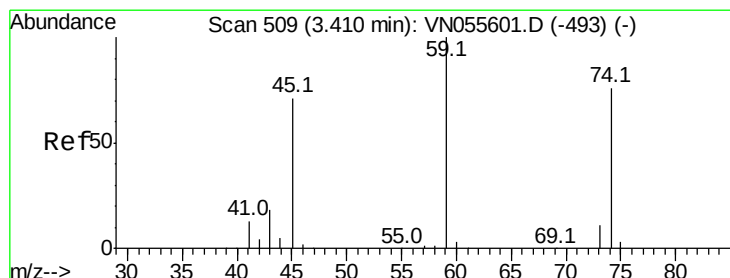
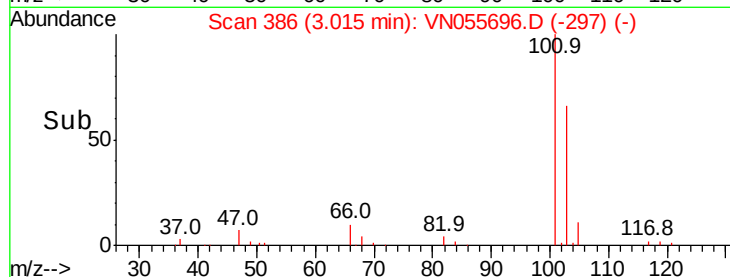
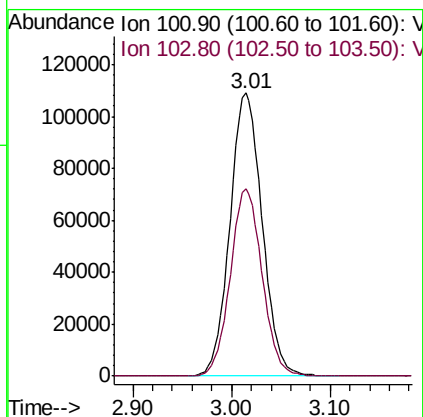
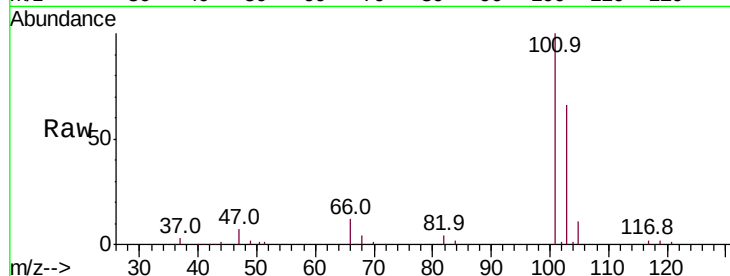
Trichlorofluoromethane
Concen: 51.921 ug/l
RT: 3.01 min Scan# 386
Delta R.T. -0.01 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	248201		
103	66.1	52.3	78.5	

Manual Integrations
APPROVED

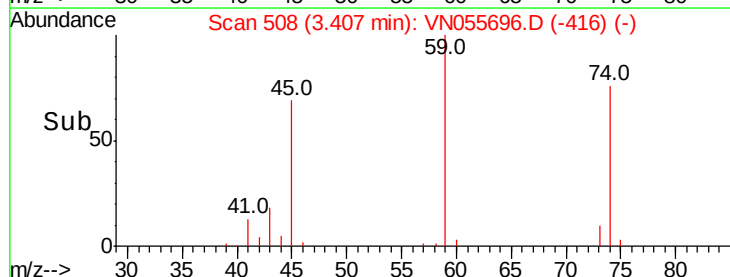
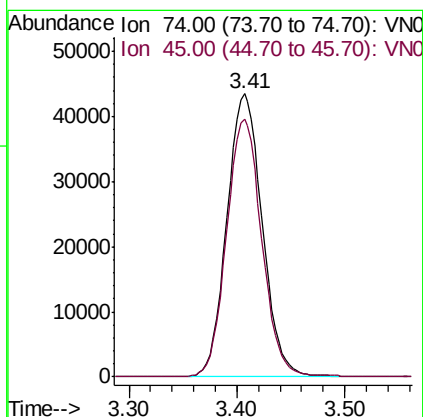
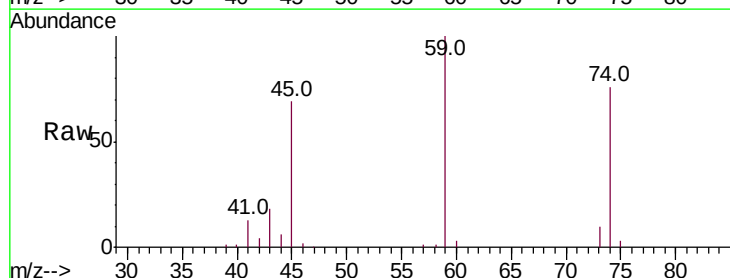
MMDadoda
5/22/2019 4:11:07 PM

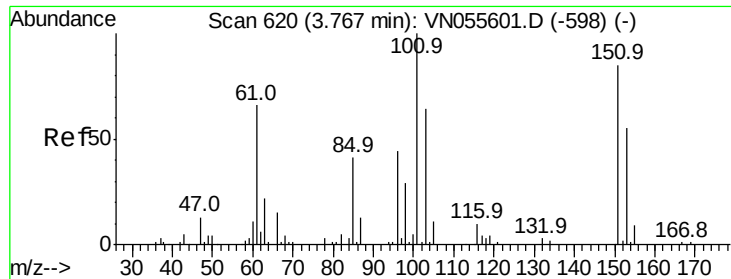


#8

Diethyl Ether
Concen: 51.457 ug/l
RT: 3.41 min Scan# 508
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	98818		
45	90.9	46.4	139.2	





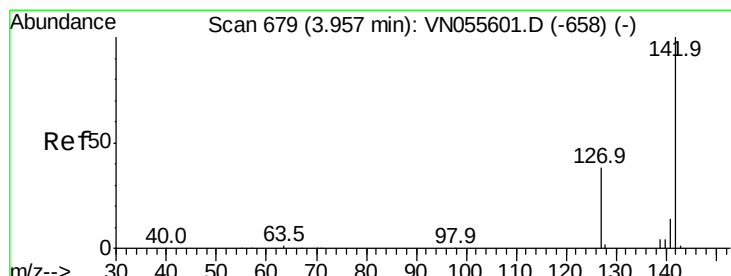
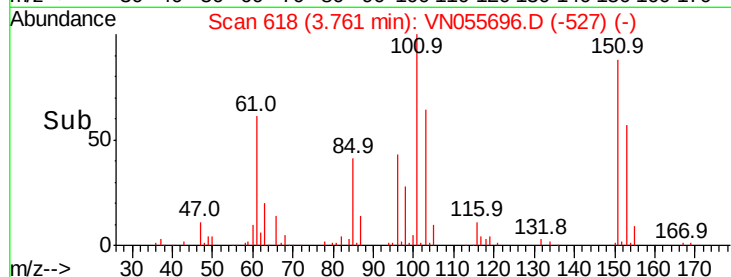
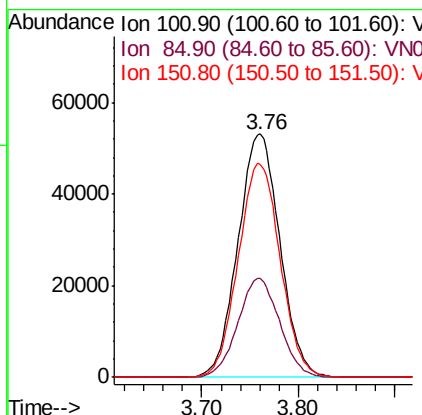
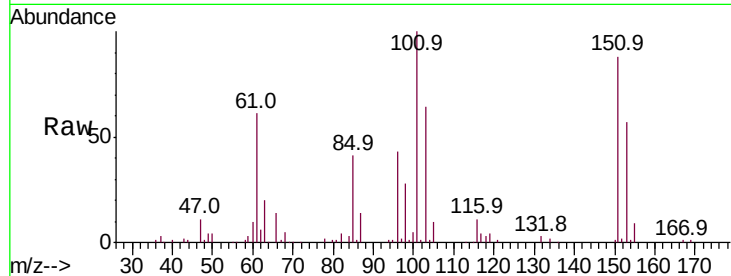
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 54.965 ug/l
 RT: 3.76 min Scan# 618
 Delta R.T. -0.01 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	160186		
85	40.5	33.4	50.0	
151	88.0	69.3	103.9	

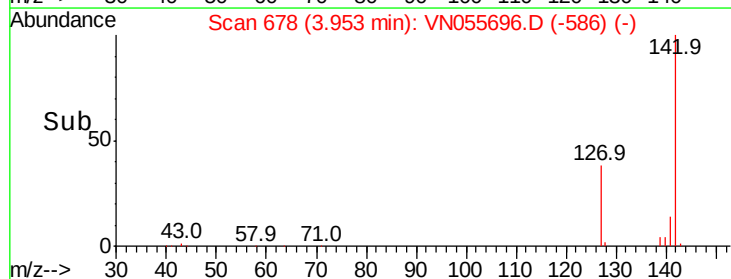
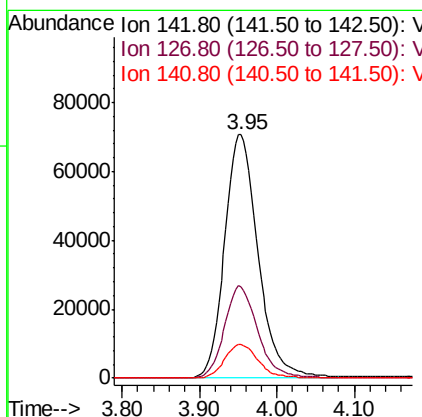
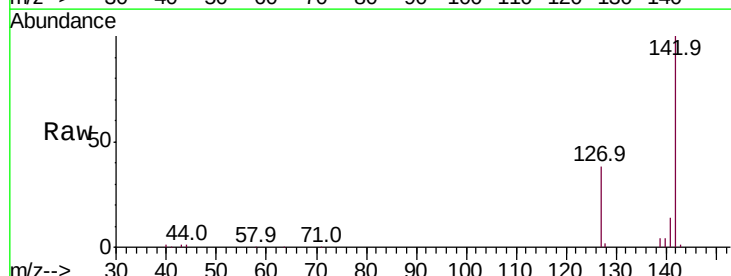
Manual Integrations
 APPROVED

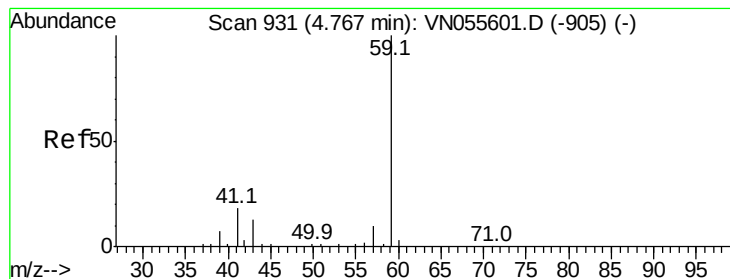
MMDadoda
 5/22/2019 4:11:07 PM



#10
 Methyl Iodide
 Concen: 50.570 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. -0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	212469		
127	37.7	31.0	46.4	
141	14.0	11.5	17.3	





#11

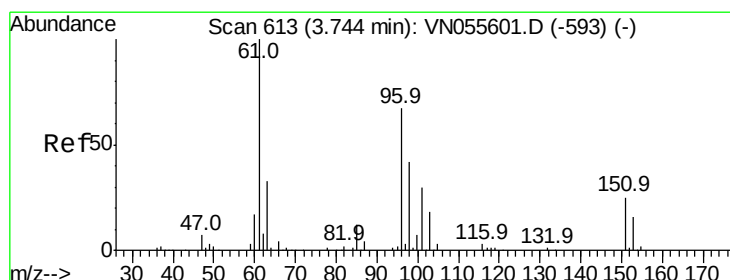
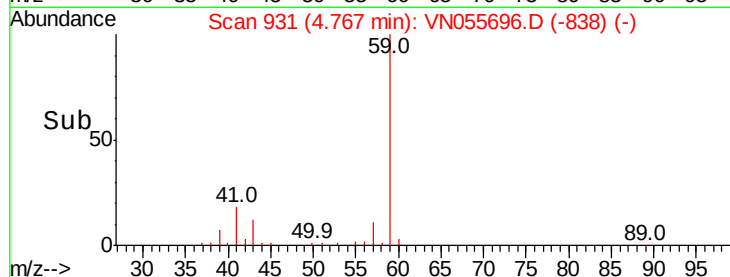
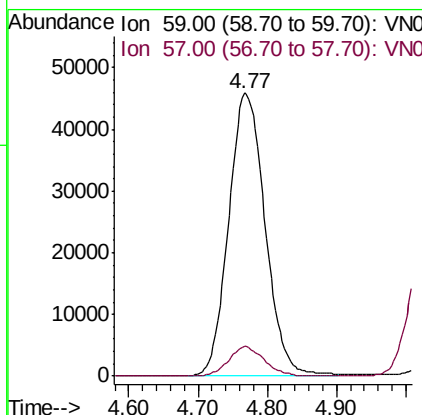
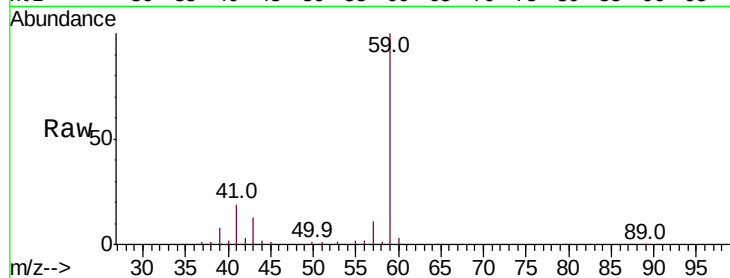
Tert butyl alcohol
 Concen: 245.124 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. 0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	59	Resp	168209
Ion Ratio	100	Lower	Upper
57	10.2	7.8	11.6

Manual Integrations
 APPROVED

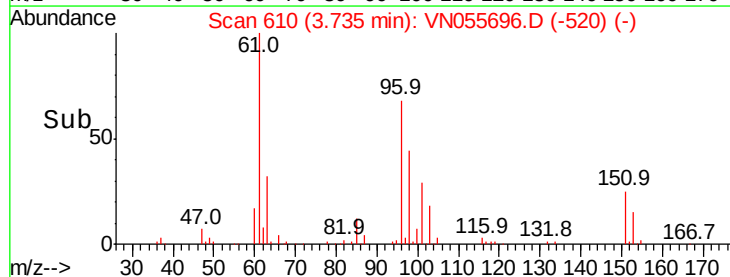
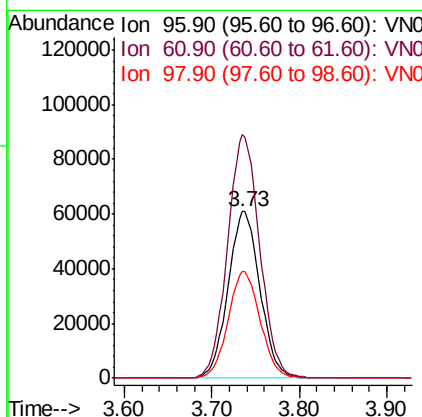
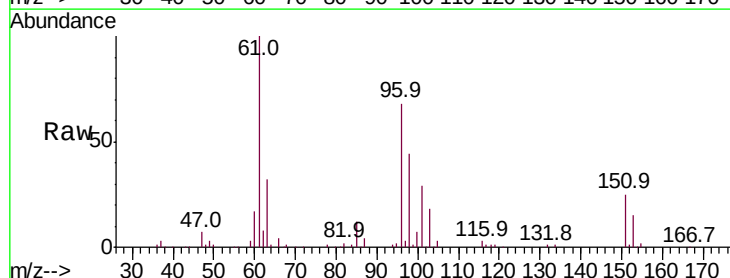
MMDadoda
 5/22/2019 4:11:07 PM

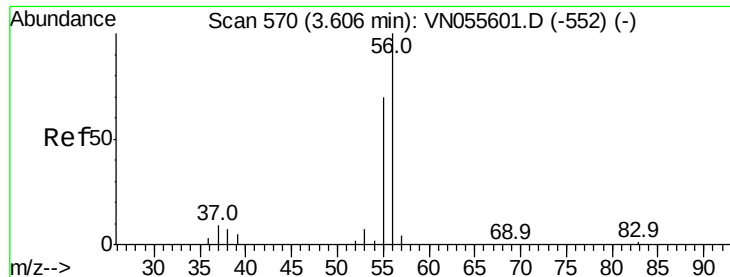


#12

1,1-Dichloroethene
 Concen: 50.330 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.01 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	96	Resp	154295
Ion Ratio	100	Lower	Upper
61	146.3	120.2	180.2
98	64.2	50.6	75.8





#13

Acrolein

Concen: 246.484 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 86271

Ion Ratio Lower Upper

56 100

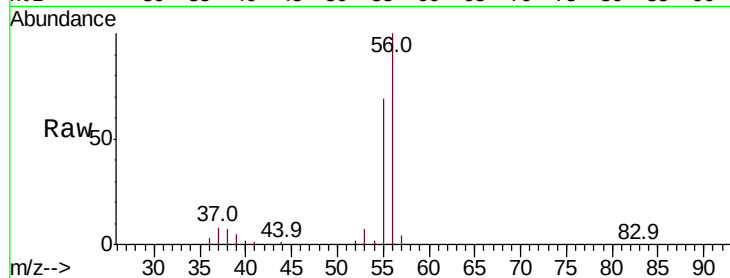
55 71.2 56.5 84.7

Manual Integrations

APPROVED

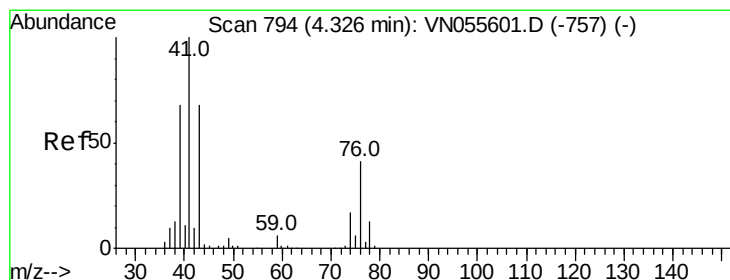
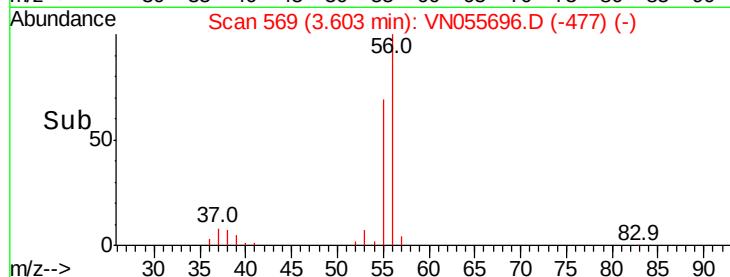
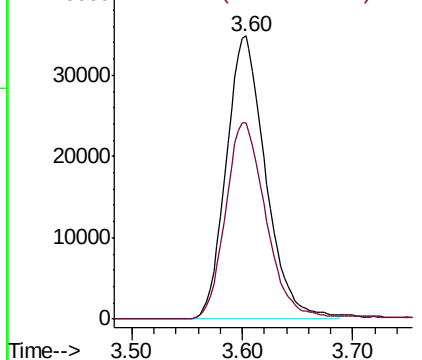
MMDadoda

5/22/2019 4:11:07 PM



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 49.940 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.01 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

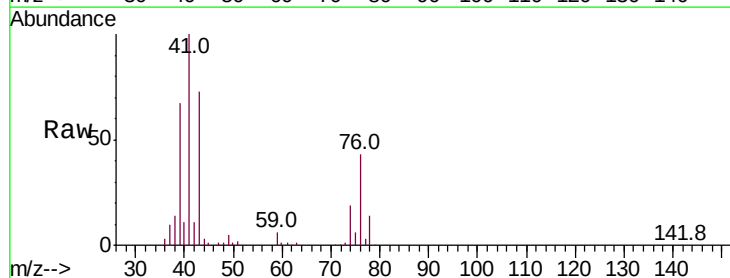
Tgt Ion: 41 Resp: 247160

Ion Ratio Lower Upper

41 100

39 62.9 50.5 75.7

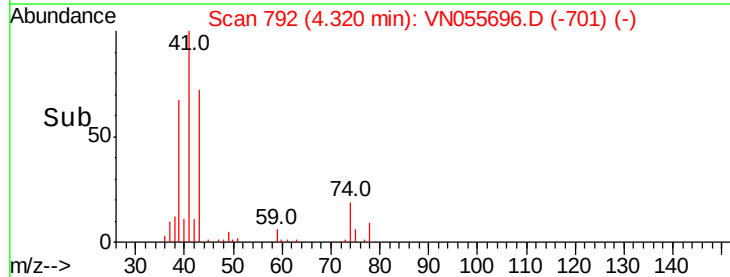
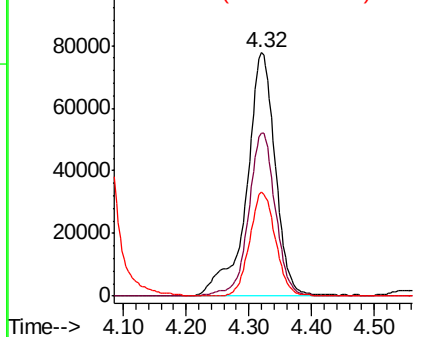
76 38.3 29.2 43.8

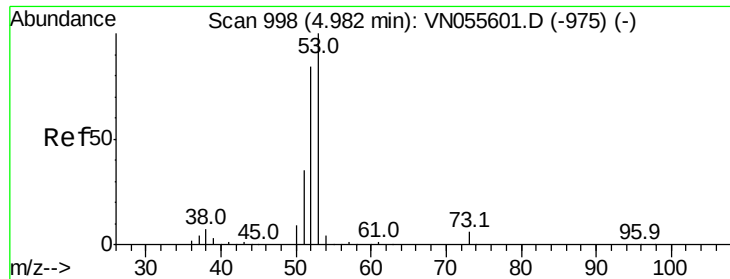


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 258.084 ug/l

RT: 4.98 min Scan# 997

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

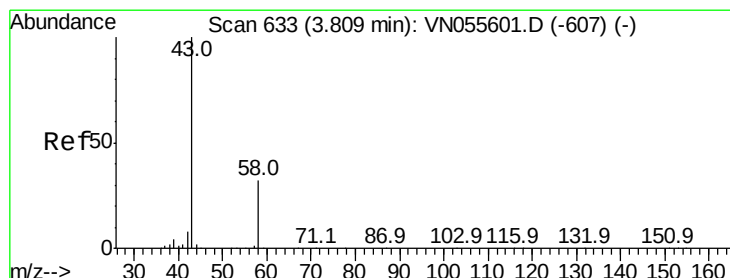
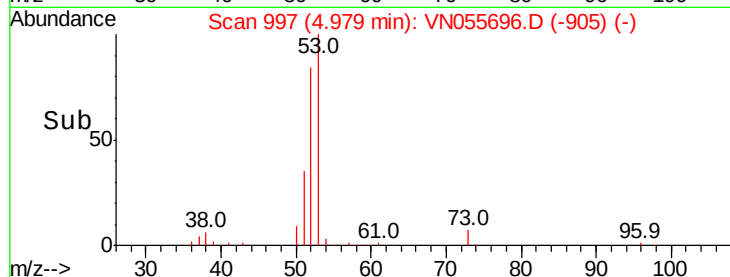
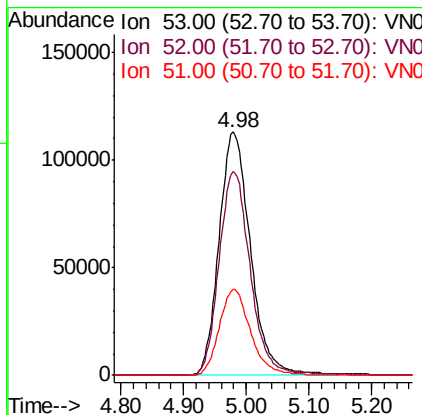
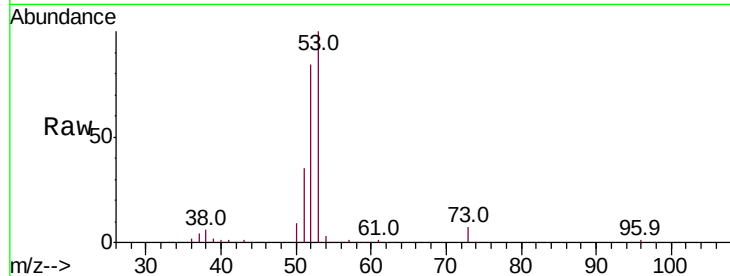
ClientSampled :

VSTDCCC050

Tot Ion:	53	Resp:	394022
Ion Ratio	Lower	Upper	
53	100		
52	83.1	66.2	99.4
51	35.2	28.5	42.7

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM



#16

Acetone

Concen: 276.411 ug/l

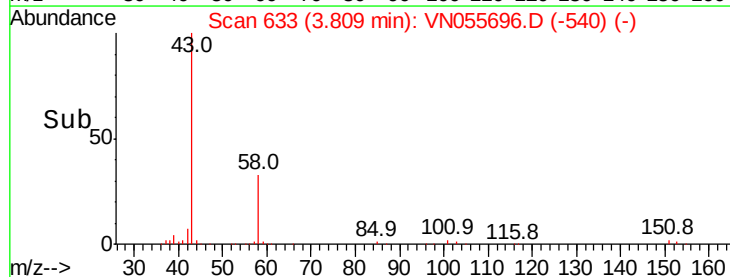
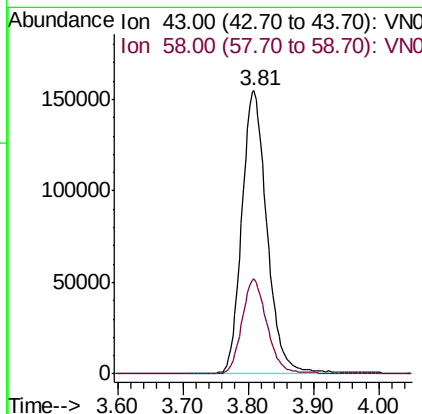
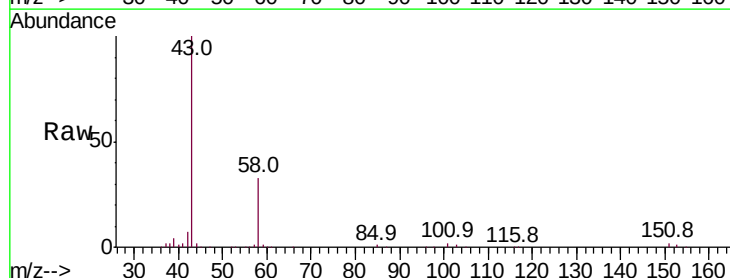
RT: 3.81 min Scan# 633

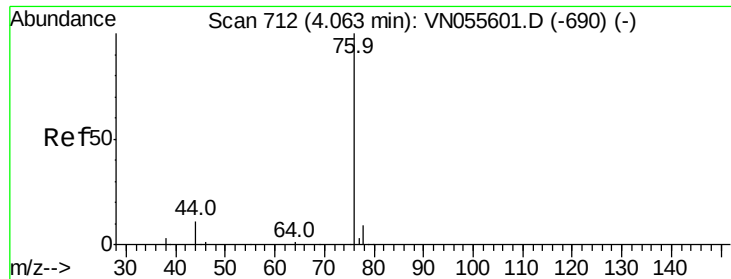
Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Tgt Ion:	43	Resp:	415088
Ion Ratio	Lower	Upper	
43	100		
58	33.4	26.0	39.0





#17

Carbon Disulfide

Concen: 47.432 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.01 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 404235

Ion Ratio Lower Upper

76 100

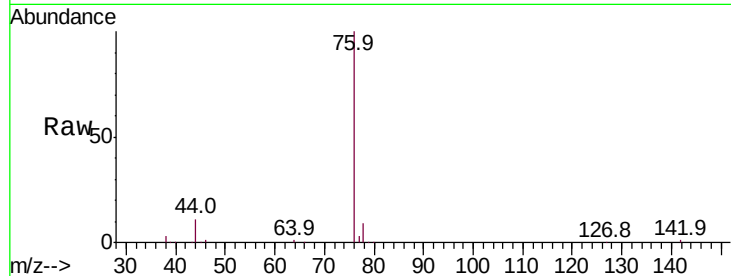
78 9.2 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:07 PM



Abundance Ion 75.90 (75.60 to 76.60): VN055601.D (-690) (-)

Ion 77.90 (77.60 to 78.60): VN055601.D (-690) (-)

4.05

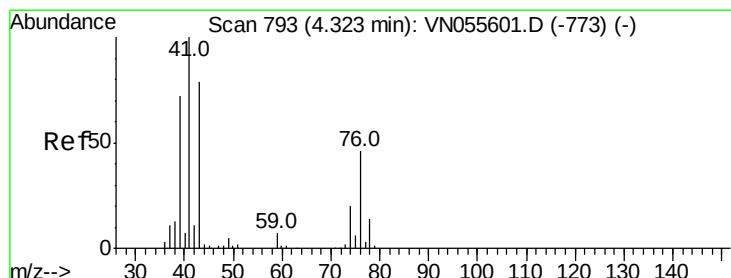
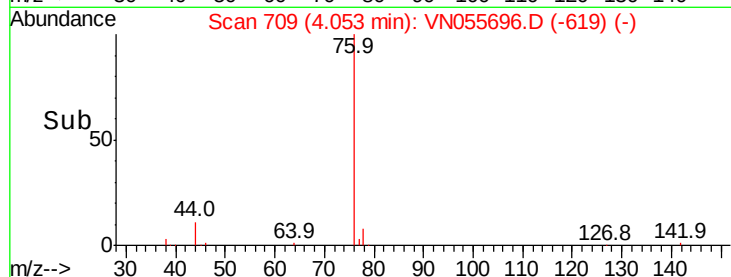
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 50.933 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.01 min

Lab File: VN055696.D

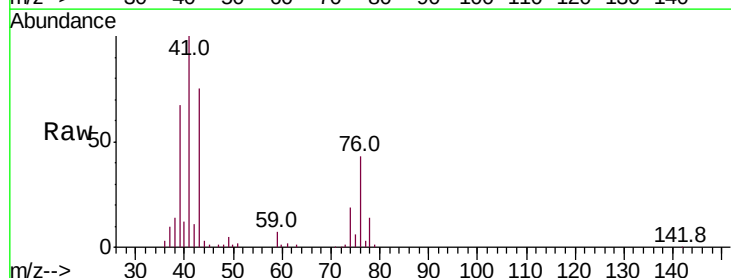
Acq: 21 May 2019 9:27

Tgt Ion: 43 Resp: 163977

Ion Ratio Lower Upper

43 100

74 25.7 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN055601.D (-773) (-)

Ion 74.00 (73.70 to 74.70): VN055601.D (-773) (-)

4.32

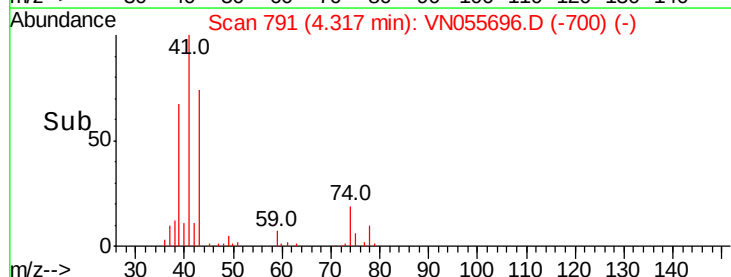
60000

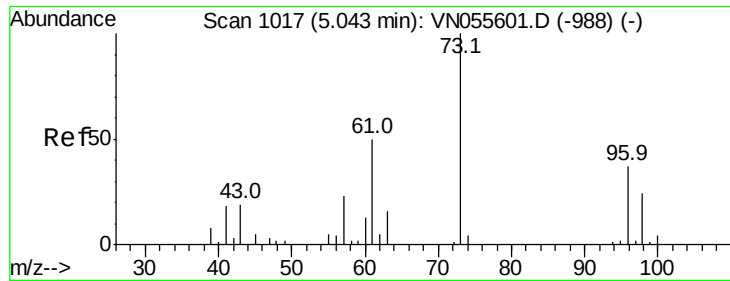
40000

20000

0

Time-->





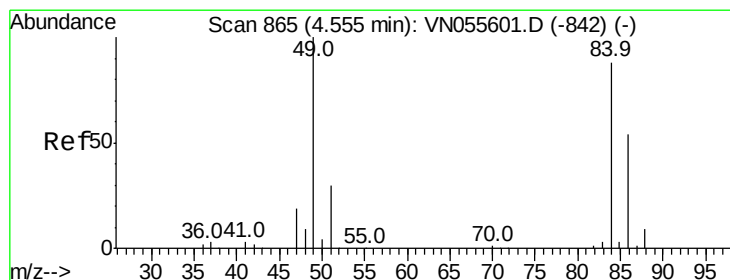
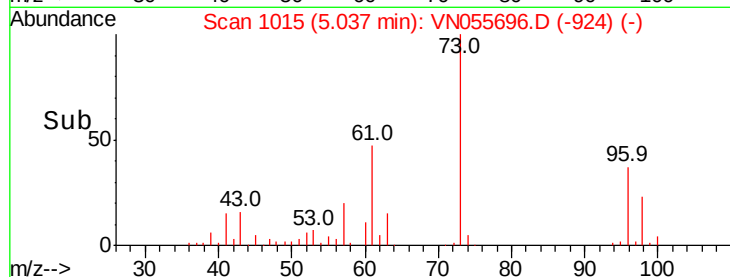
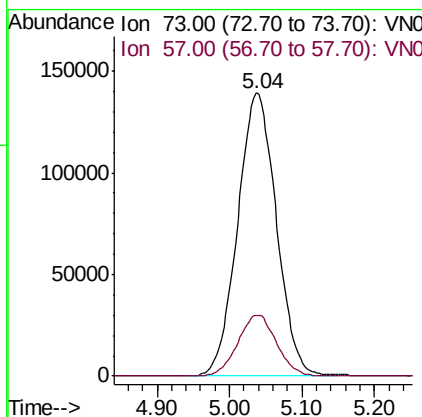
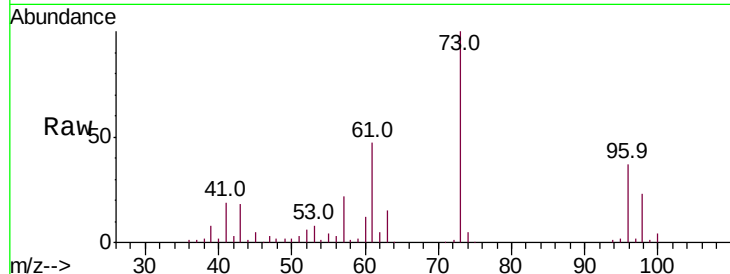
#19
Methyl tert-butyl Ether
Concen: 50.981 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.01 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 517054
Ion Ratio Lower Upper
73 100
57 21.6 18.2 27.2

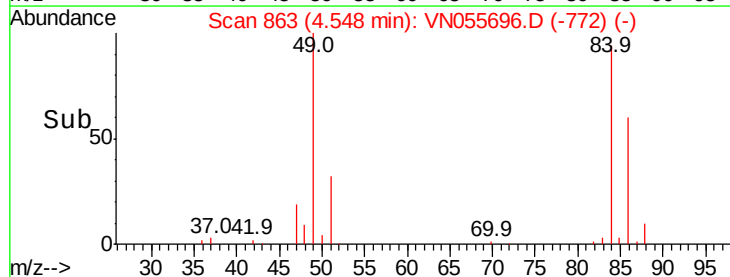
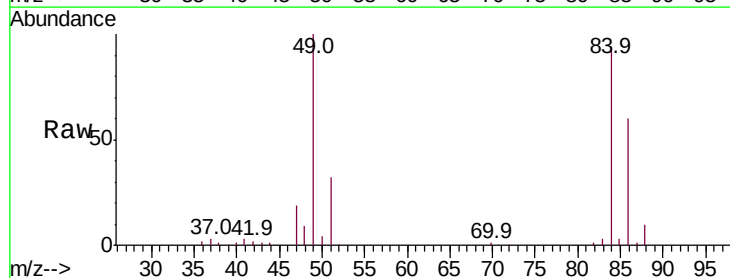
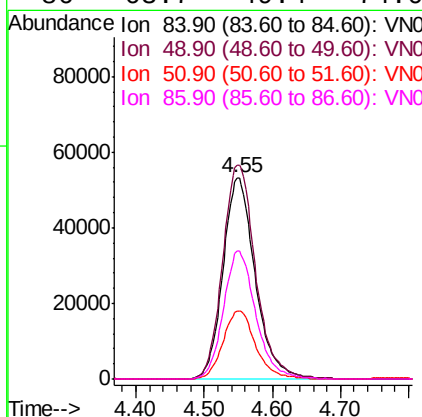
Manual Integrations
APPROVED

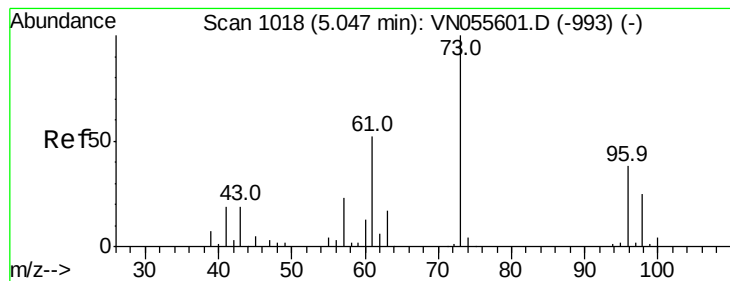
MMDadoda
5/22/2019 4:11:07 PM



#20
Methylene Chloride
Concen: 50.974 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion: 84 Resp: 174695
Ion Ratio Lower Upper
84 100
49 106.0 91.0 136.4
51 33.7 27.5 41.3
86 63.7 49.4 74.0





#21

trans-1,2-Dichloroethene

Concen: 50.680 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.01 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 16512

Ion Ratio Lower Upper

96 100

61 127.7 108.6 162.8

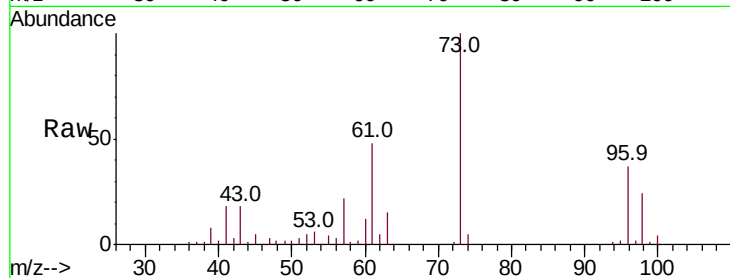
98 63.5 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

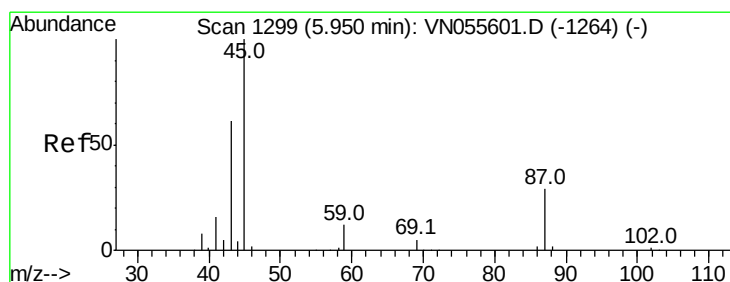
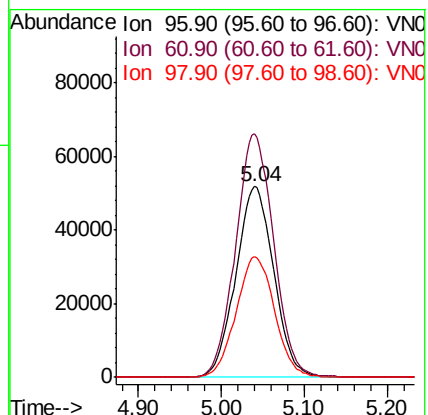
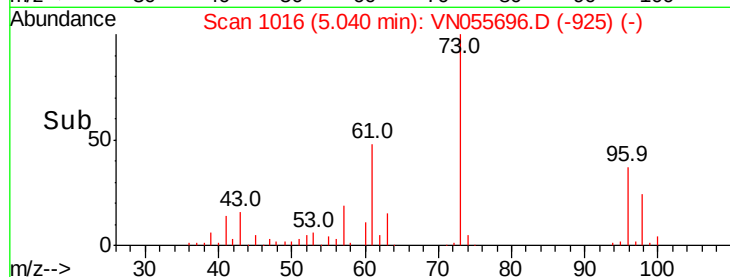
5/22/2019 4:11:07 PM



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 50.573 ug/l

RT: 5.95 min Scan# 1298

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Tgt Ion: 45 Resp: 495973

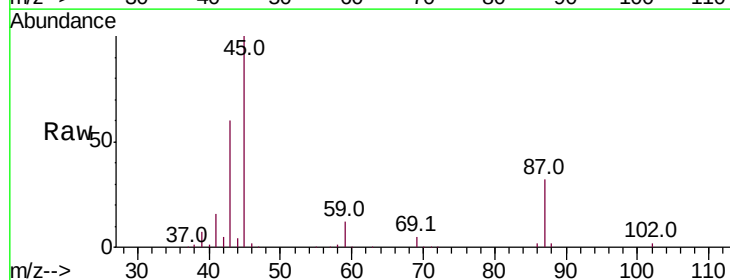
Ion Ratio Lower Upper

45 100

43 58.9 50.4 75.6

87 31.2 23.8 35.6

59 12.2 9.5 14.3

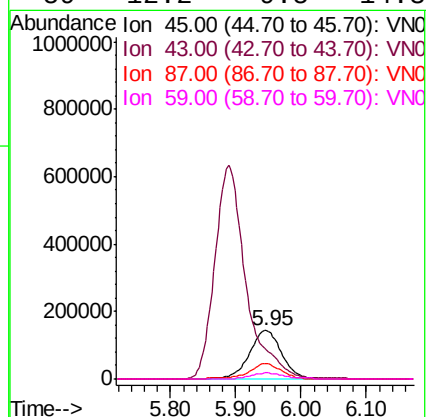
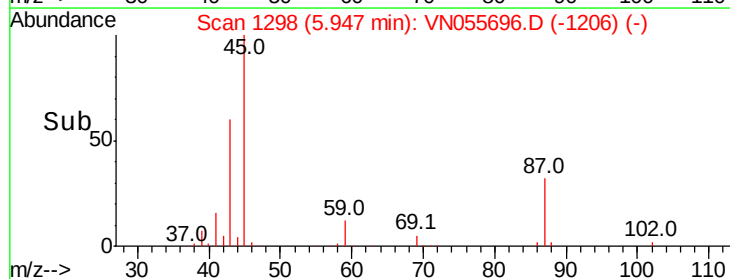


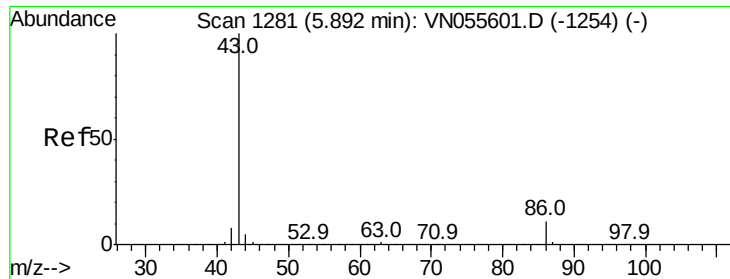
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 254.245 ug/l

RT: 5.89 min Scan# 1280

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2115676

Ion Ratio Lower Upper

43 100

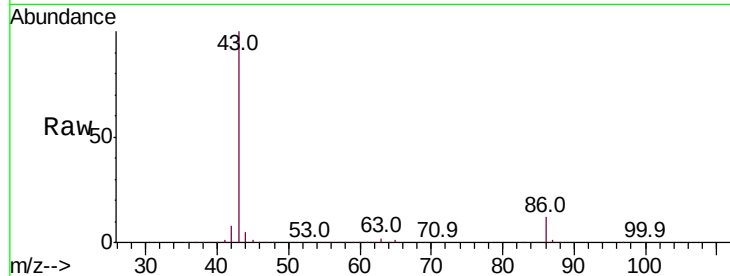
86 11.5 8.7 13.1

Manual Integrations

APPROVED

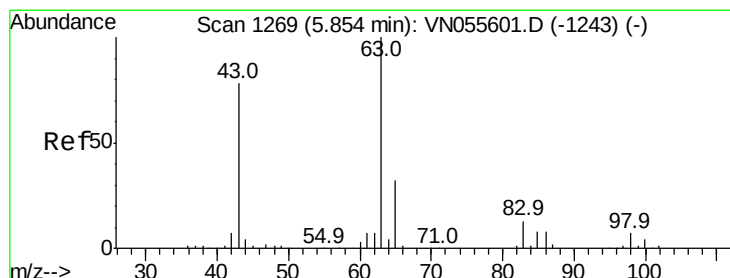
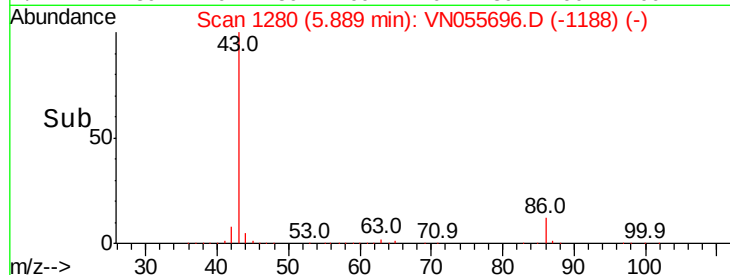
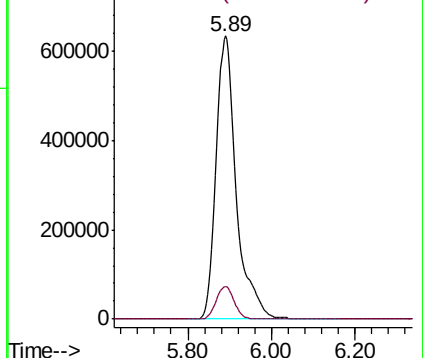
MMDadoda

5/22/2019 4:11:07 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 51.166 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

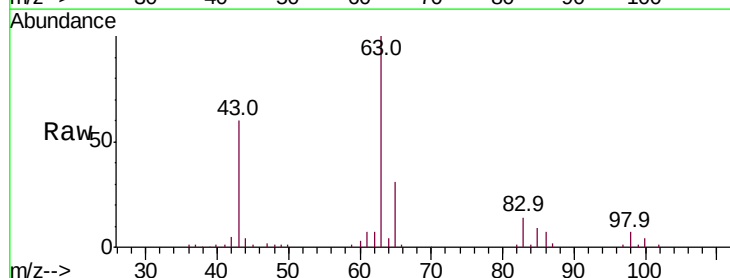
Tgt Ion: 63 Resp: 294217

Ion Ratio Lower Upper

63 100

98 7.0 3.4 10.2

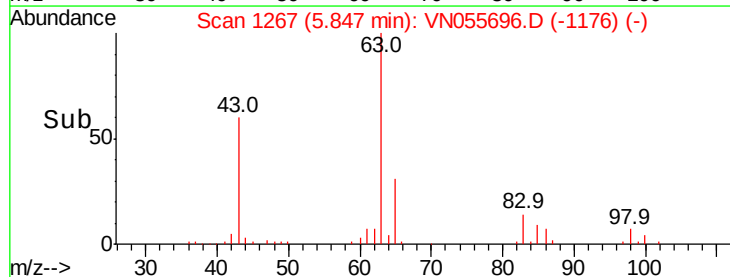
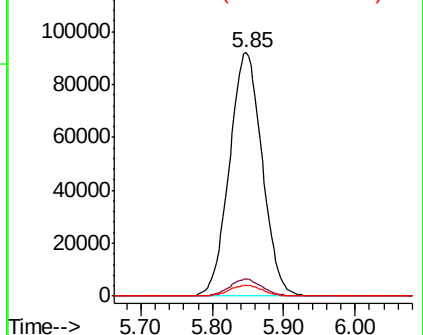
100 4.5 2.2 6.6

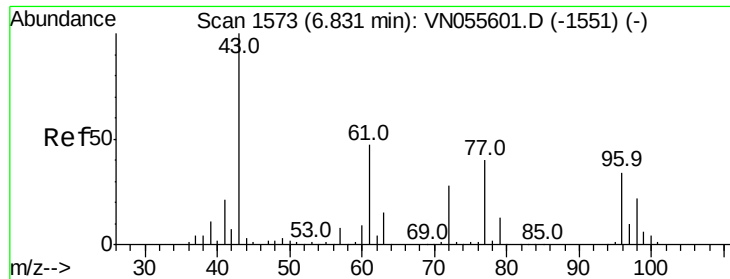


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 261.518 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 549112

Ion Ratio Lower Upper

43 100

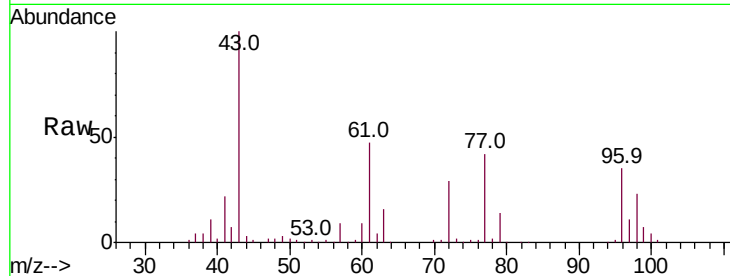
72 28.8 22.3 33.5

Manual Integrations

APPROVED

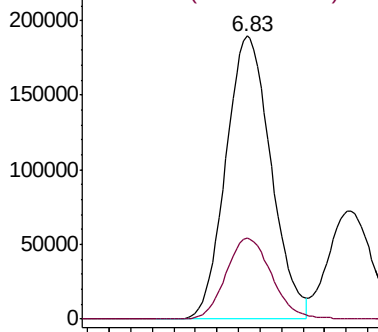
MMDadoda

5/22/2019 4:11:07 PM

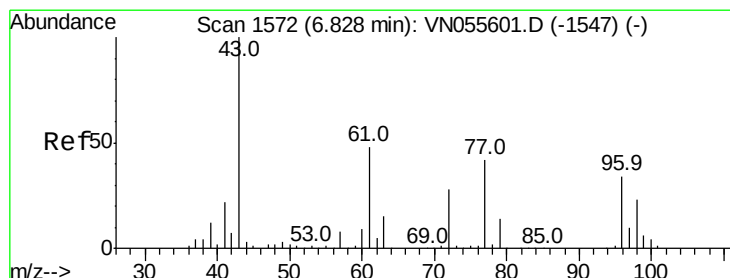
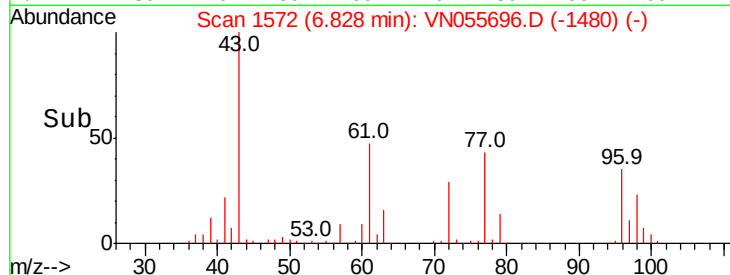


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->



#26

2,2-Dichloropropane

Concen: 52.459 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VN055696.D

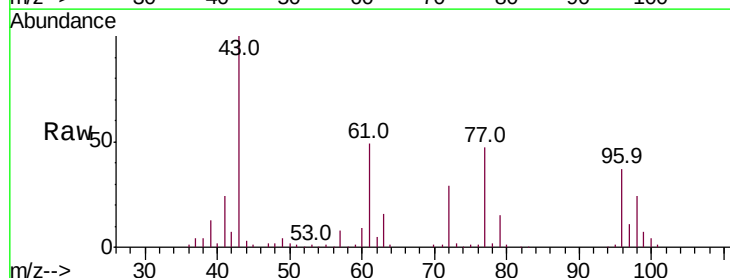
Acq: 21 May 2019 9:27

Tgt Ion: 77 Resp: 267725

Ion Ratio Lower Upper

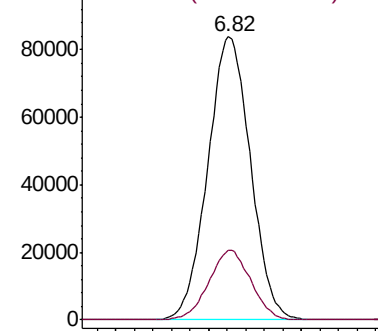
77 100

97 24.2 12.0 36.0

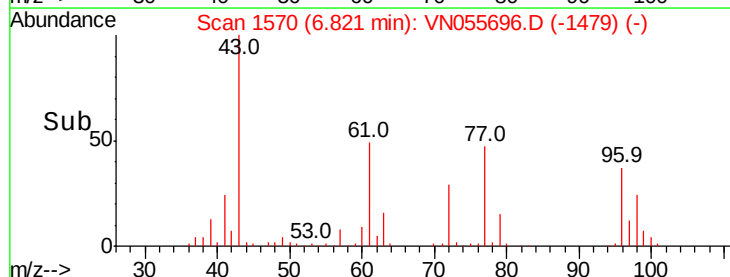


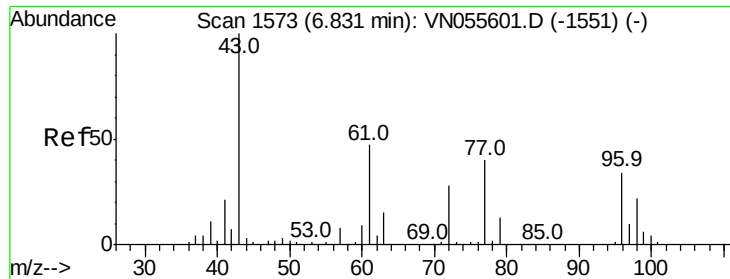
Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0



Time-->





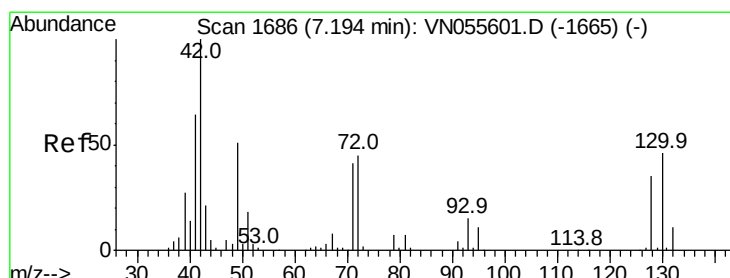
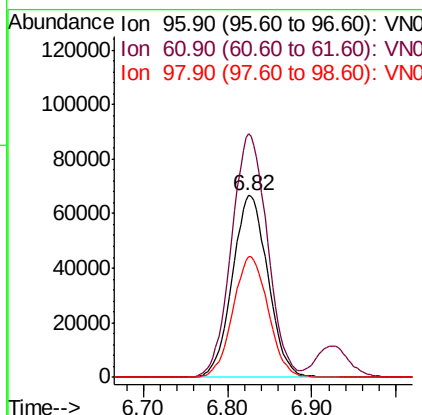
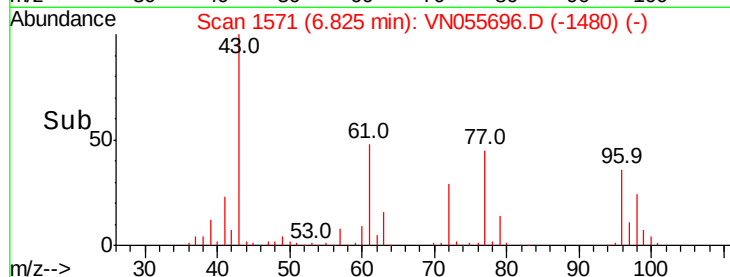
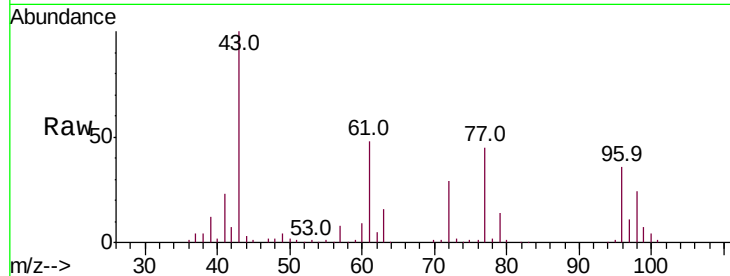
#27
 cis-1,2-Dichloroethene
 Concen: 51.476 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	195758		
61	135.0	0.0	279.0	
98	65.8	0.0	131.6	

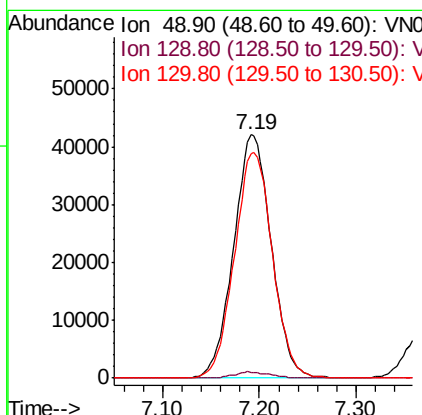
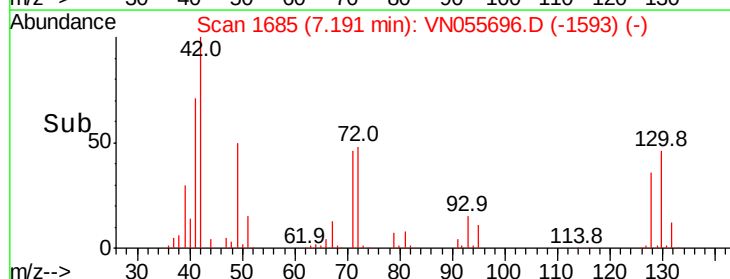
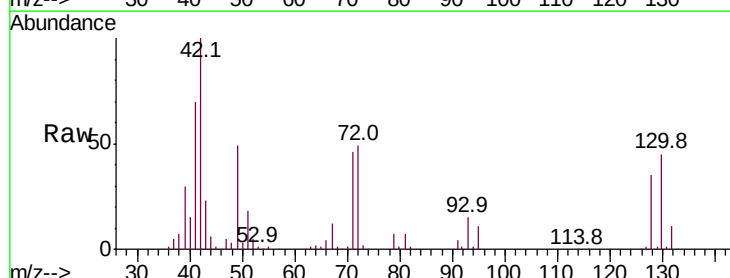
Manual Integrations
 APPROVED

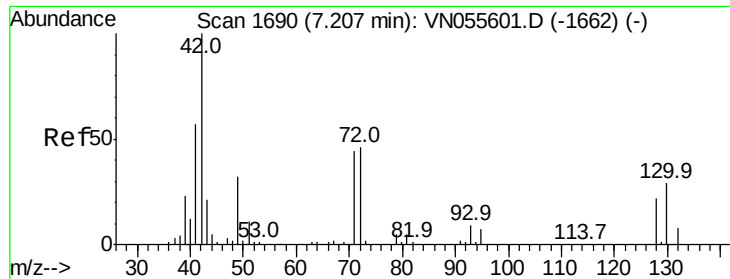
MMDadoda
 5/22/2019 4:11:07 PM



#28
 Bromochloromethane
 Concen: 45.507 ug/l
 RT: 7.19 min Scan# 1685
 Delta R.T. -0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	113843		
129	2.4	0.0	4.4	
130	93.6	71.0	106.6	





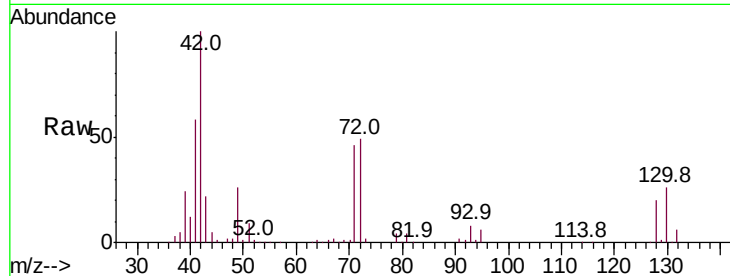
#29
Tetrahydrofuran
Concen: 239.074 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.2	36.5	54.7
71	44.9	34.9	52.3

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM

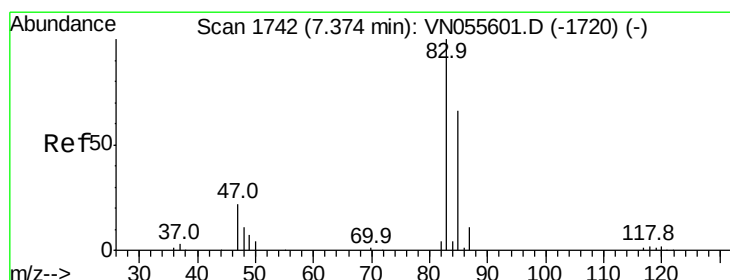
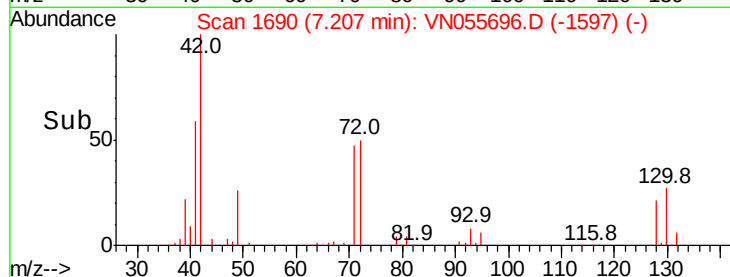
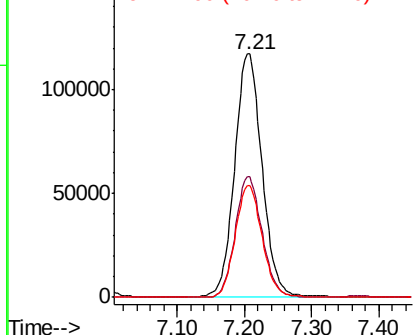


Abundance

Ion 42.00 (41.70 to 42.70): VNO

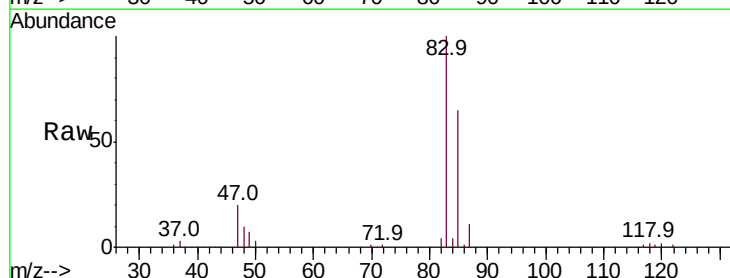
Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO



#30
Chloroform
Concen: 50.874 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

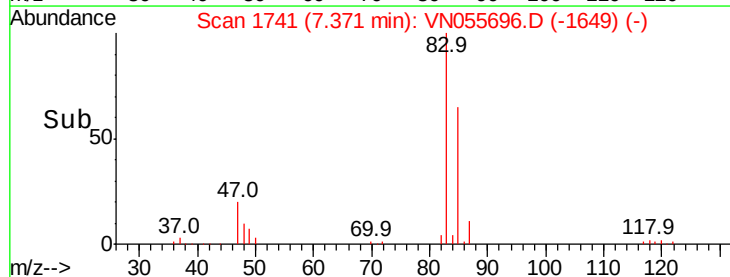
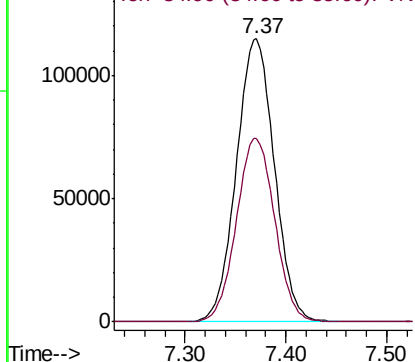
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.6	78.8

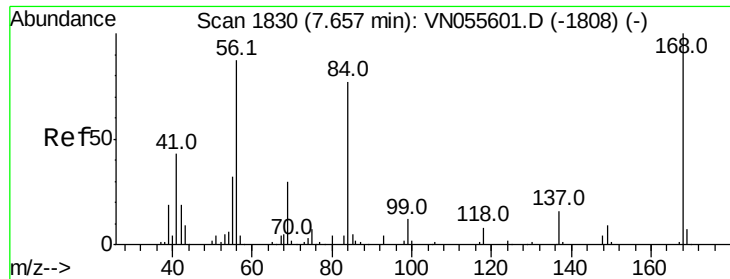


Abundance

Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO





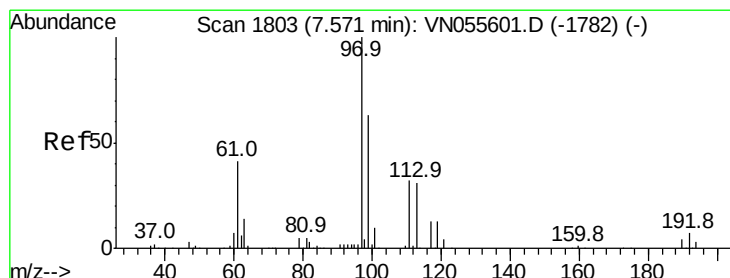
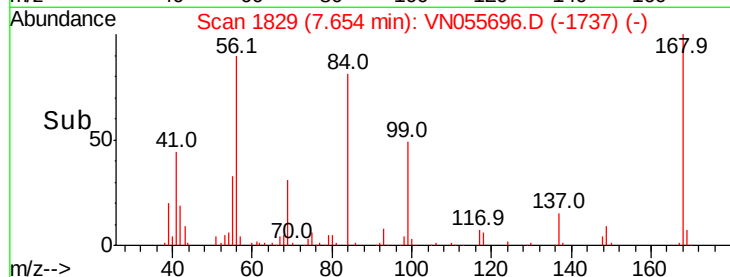
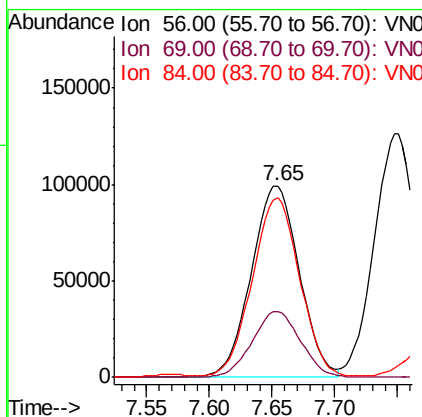
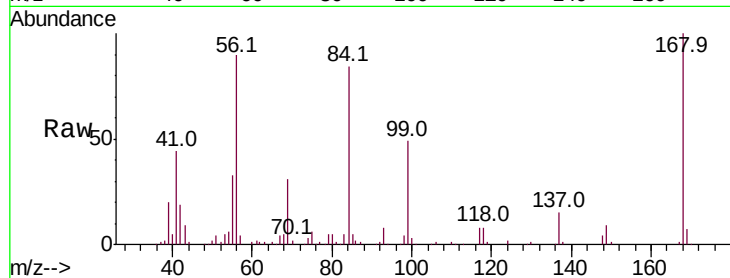
#31
Cyclohexane
Concen: 48.488 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	56	Ratio	Lower	Upper
56	100			
69	34.7	27.2	40.8	
84	92.7	71.3	106.9	

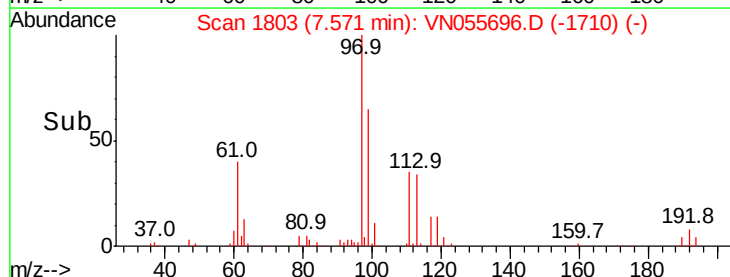
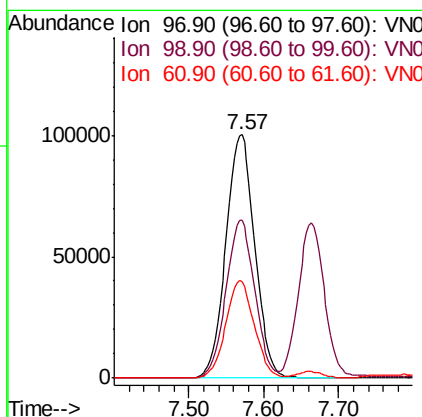
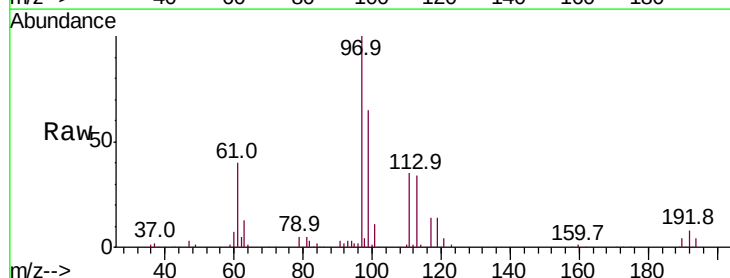
Manual Integrations
APPROVED

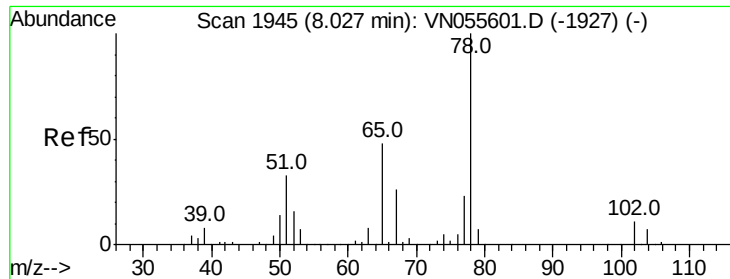
MMDadoda
5/22/2019 4:11:07 PM



#32
1,1,1-Trichloroethane
Concen: 50.781 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	97	Ratio	Lower	Upper
97	100			
99	64.4	51.4	77.2	
61	39.5	32.9	49.3	





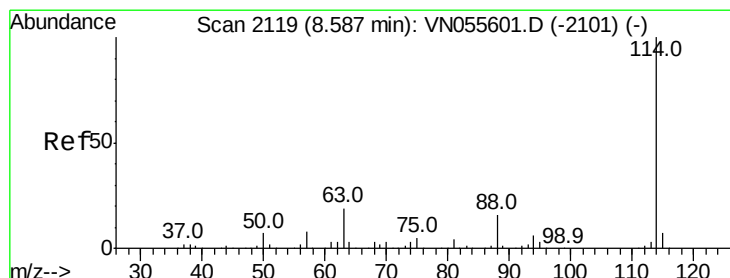
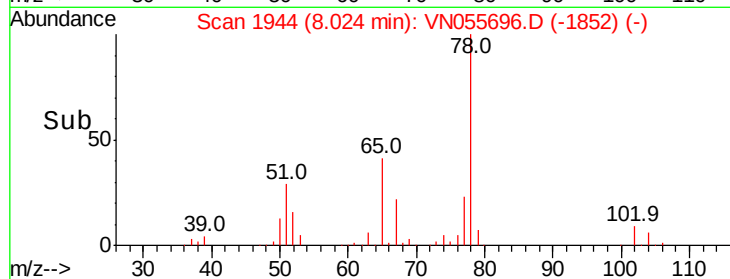
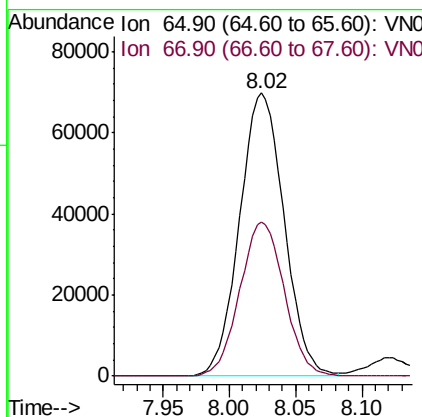
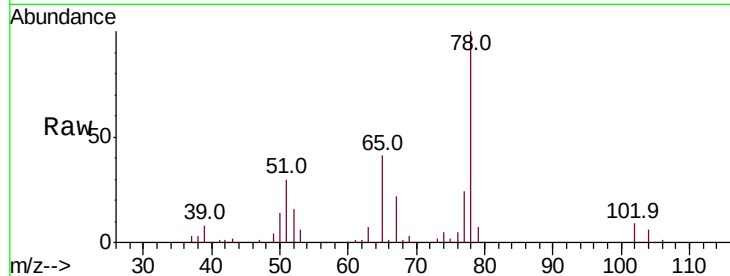
#33
 1,2-Dichloroethane-d4
 Concen: 44.309 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	163047		
67	54.5	0.0	108.6	

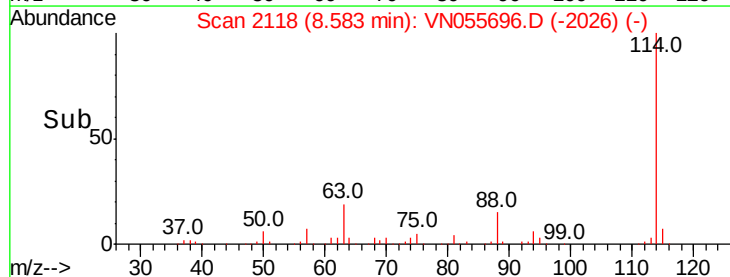
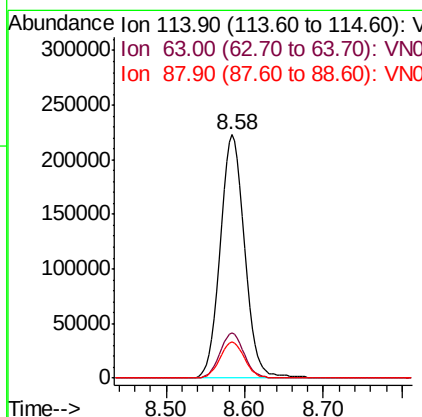
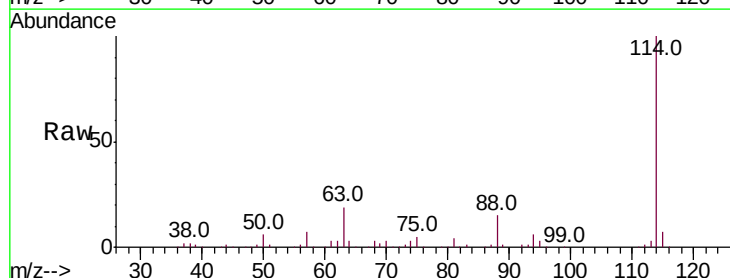
Manual Integrations
 APPROVED

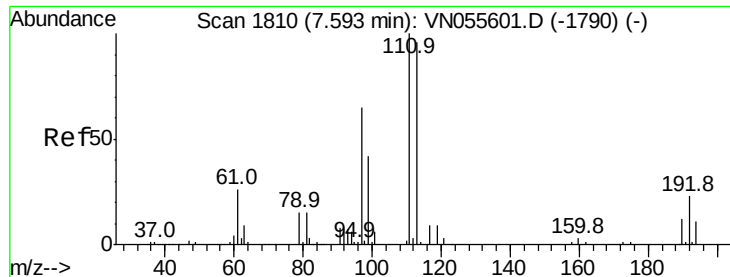
MMDadoda
 5/22/2019 4:11:07 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	475555		
63	18.7	0.0	38.2	
88	14.9	0.0	31.0	





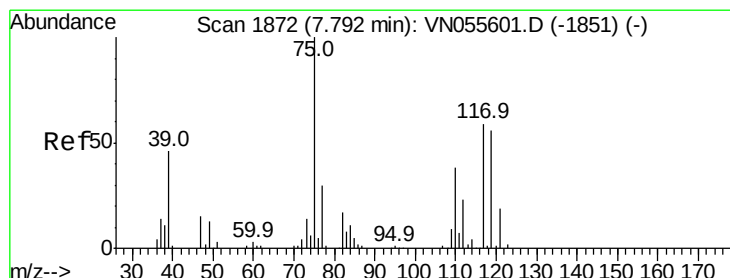
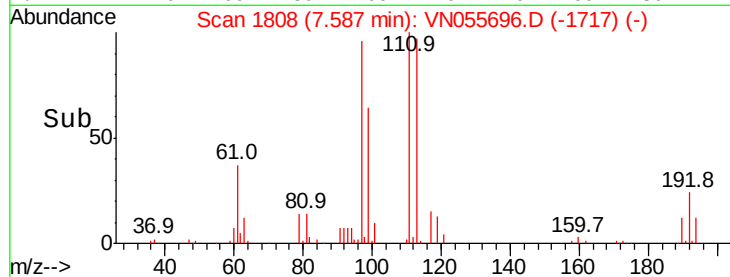
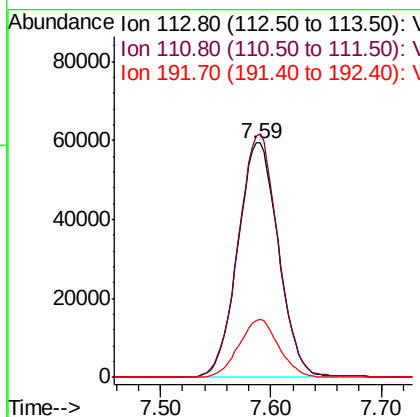
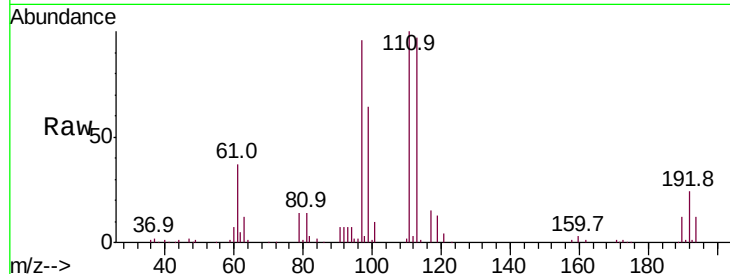
#35
 Dibromofluoromethane
 Concen: 50.270 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.01 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.8	82.5	123.7	
192	24.1	18.7	28.1	

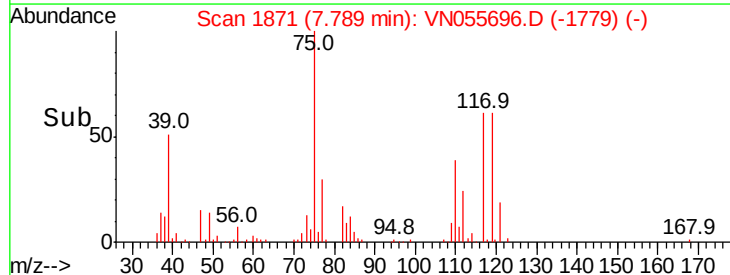
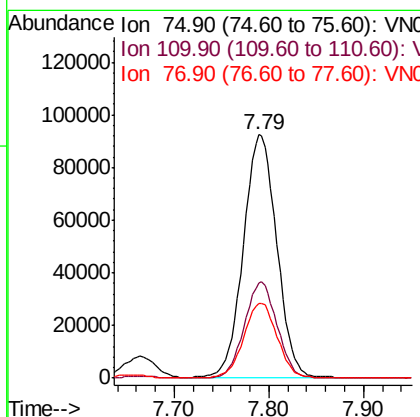
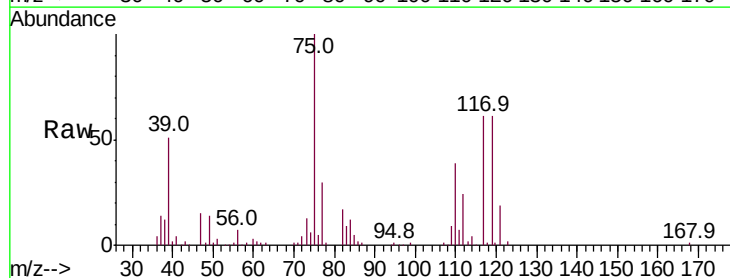
Manual Integrations
 APPROVED

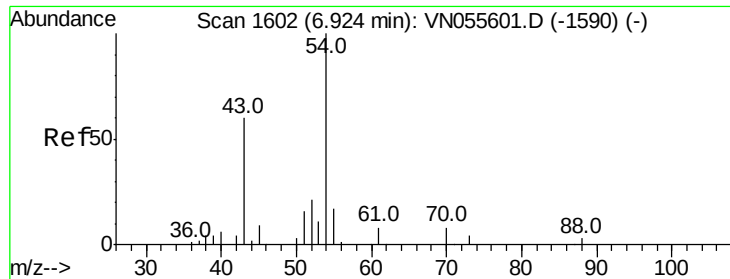
MMDadoda
 5/22/2019 4:11:07 PM



#36
 1,1-Dichloropropene
 Concen: 53.166 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	38.9	18.6	55.6	
77	31.2	24.9	37.3	





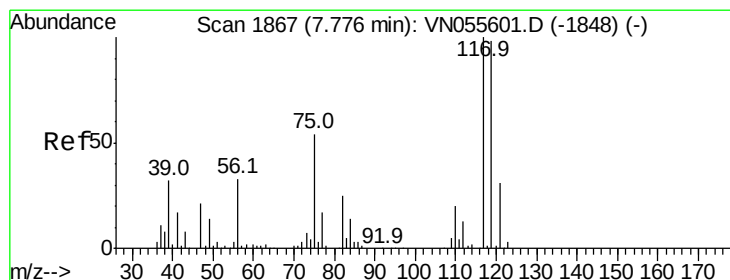
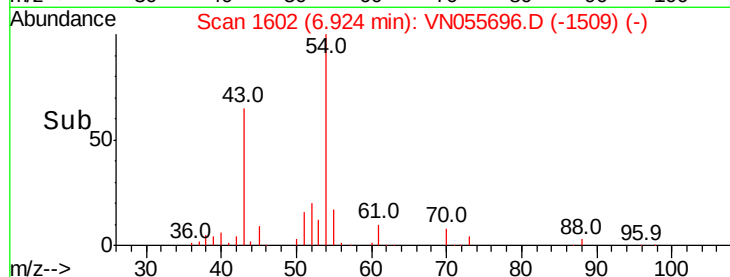
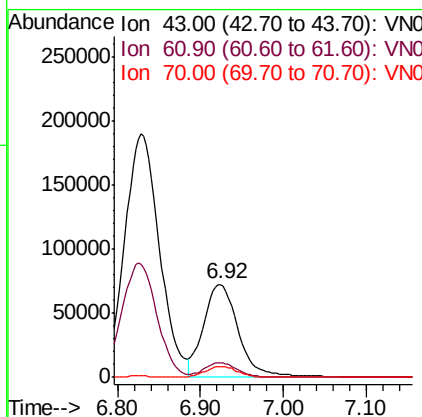
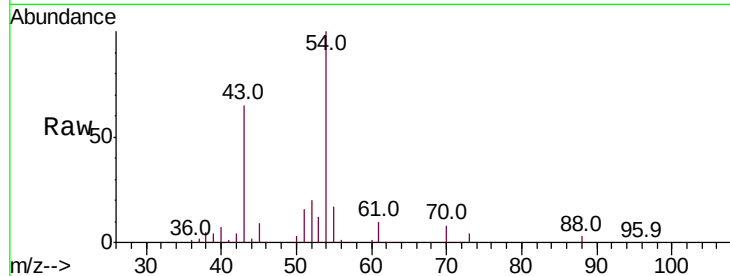
#37
Ethyl Acetate
Concen: 54.462 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.4	17.0
70	11.6	9.2	13.8

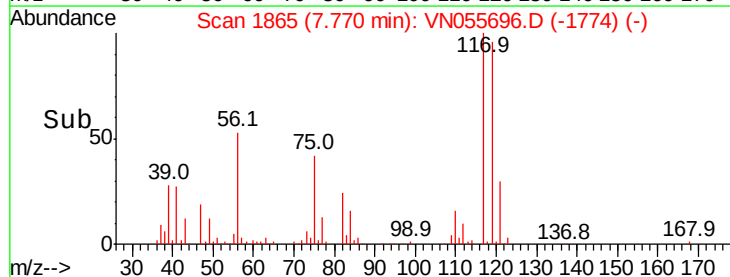
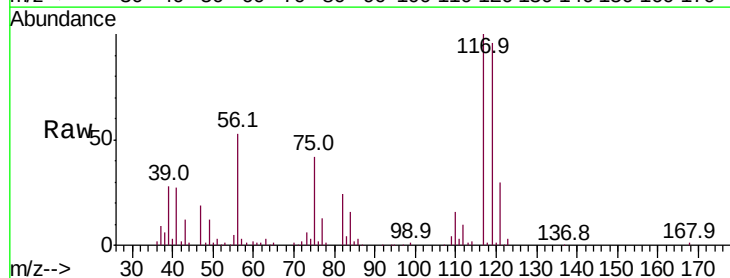
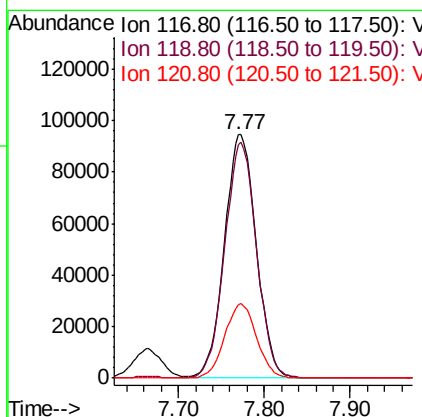
Manual Integrations
APPROVED

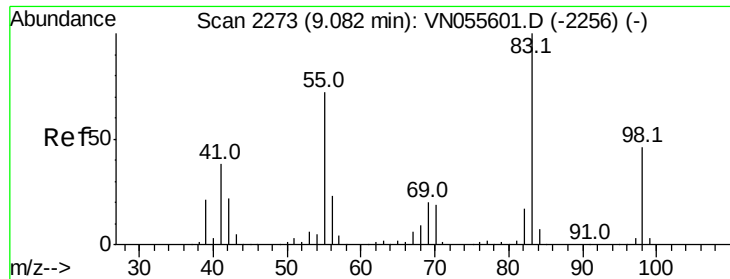
MMDadoda
5/22/2019 4:11:07 PM



#38
Carbon Tetrachloride
Concen: 53.720 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.01 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.8	116.8
121	30.0	24.6	37.0





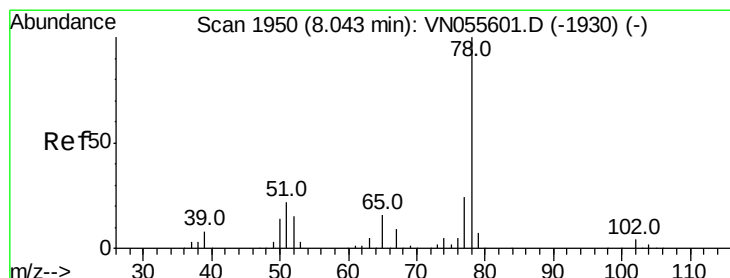
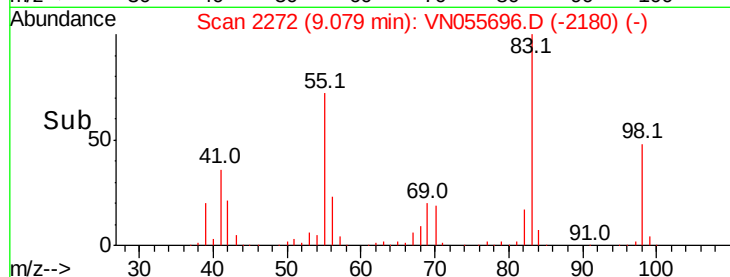
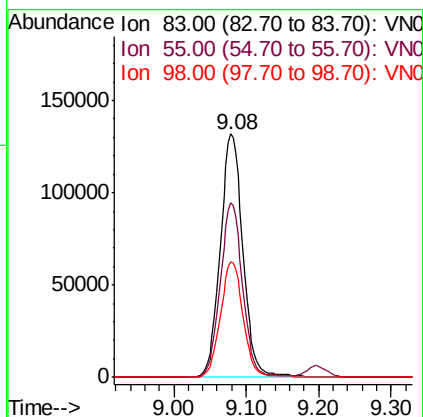
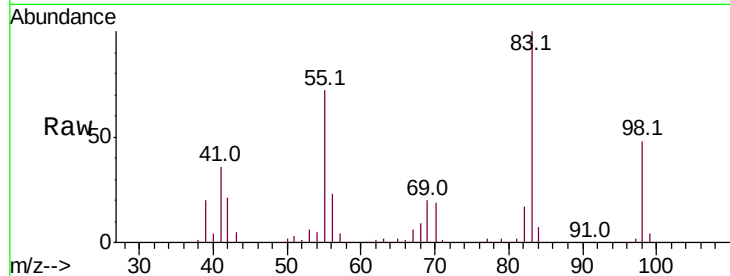
#39
Methylvlcyclohexane
Concen: 55.860 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	71.7	57.8	86.6	
98	47.6	36.7	55.1	

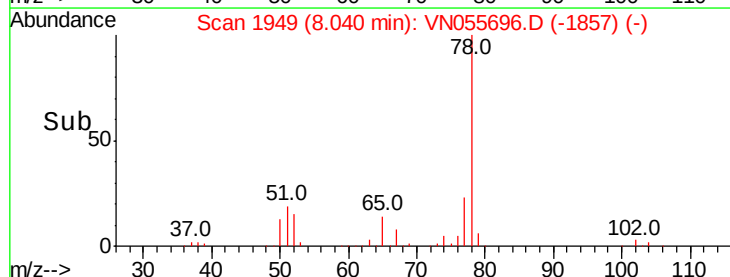
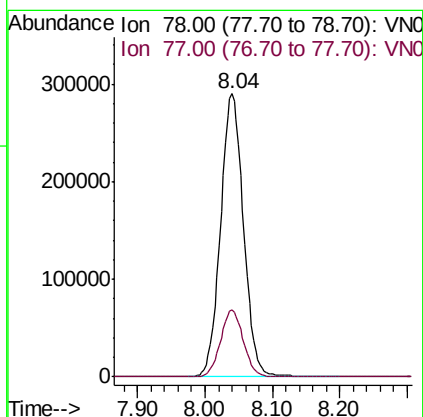
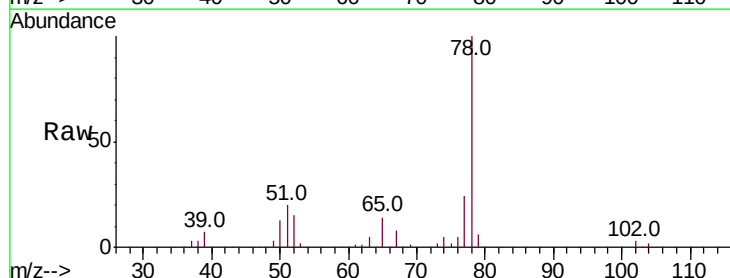
Manual Integrations
APPROVED

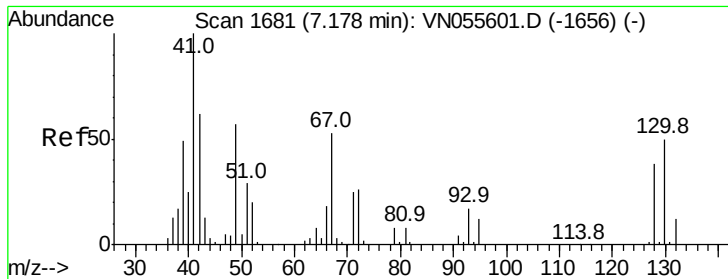
MMDadoda
5/22/2019 4:11:07 PM



#40
Benzene
Concen: 55.293 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.6	18.9	28.3	





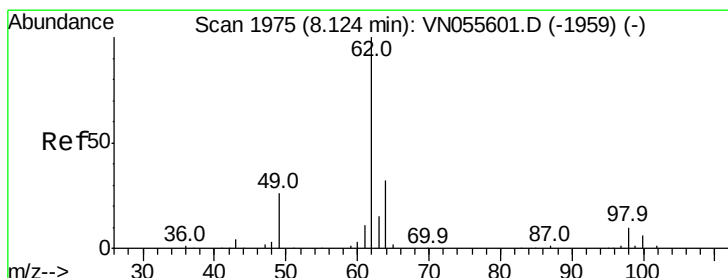
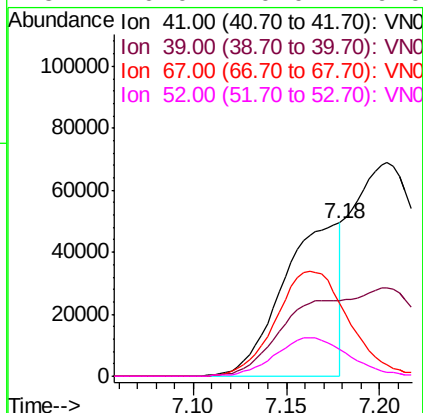
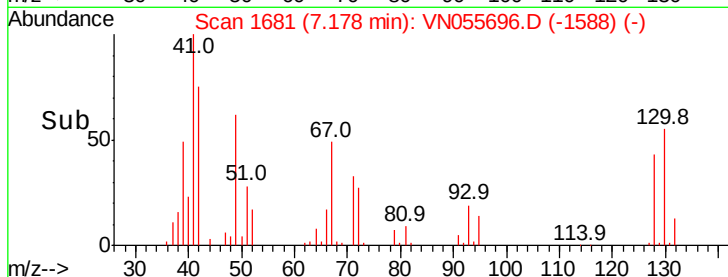
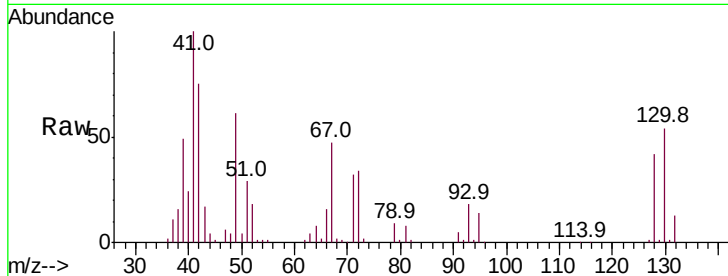
#41
Methacrylonitrile
Concen: 64.603 ug/l m
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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

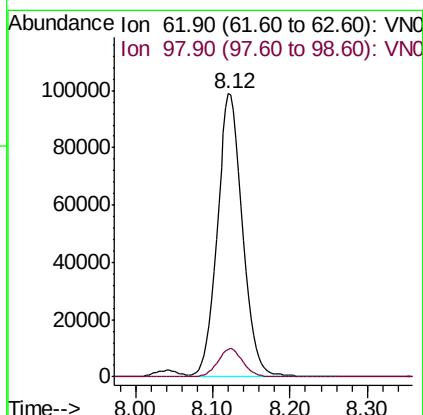
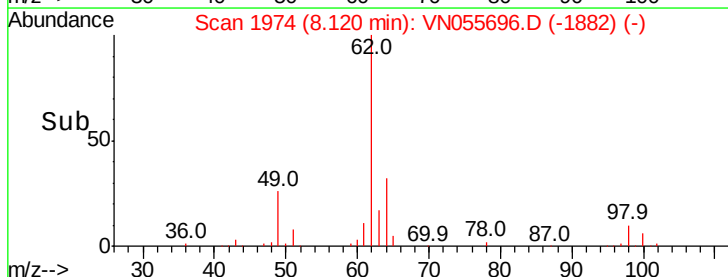
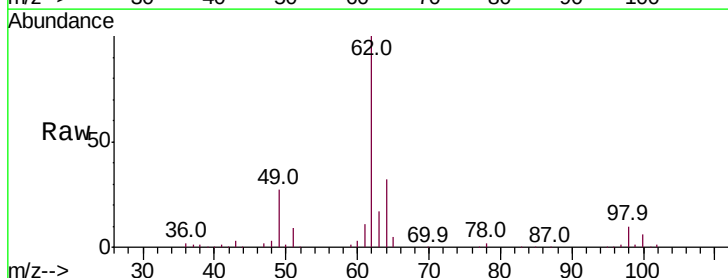
Manual Integrations
APPROVED

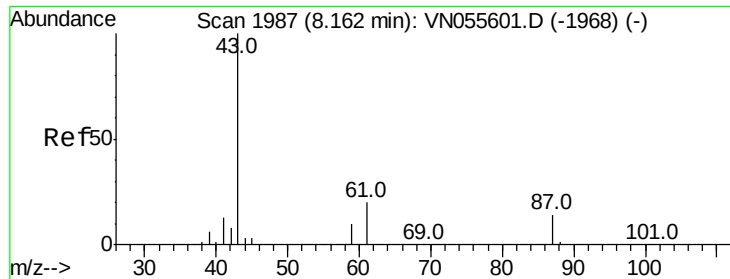
MMDadoda
5/22/2019 4:11:07 PM



#42
1,2-Dichloroethane
Concen: 55.762 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	20.2





#43

Isopropyl Acetate

Concen: 55.146 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

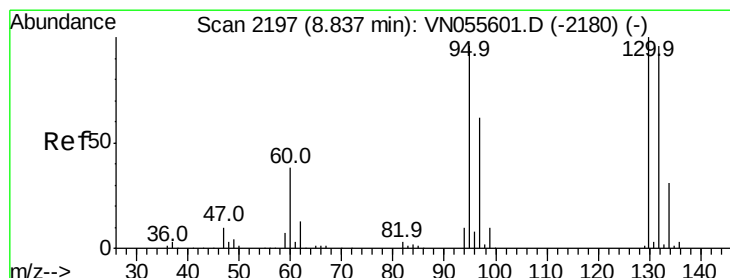
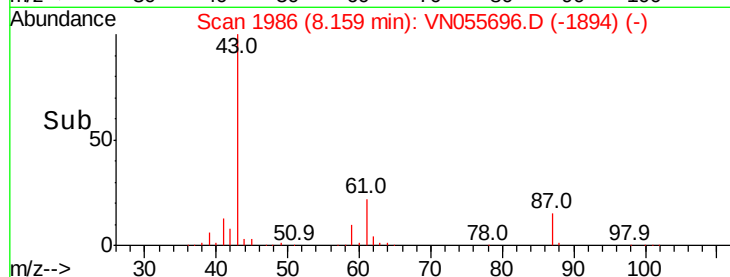
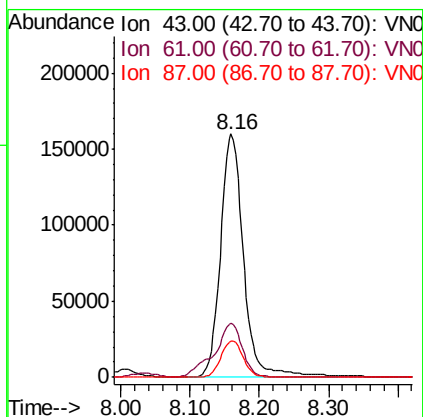
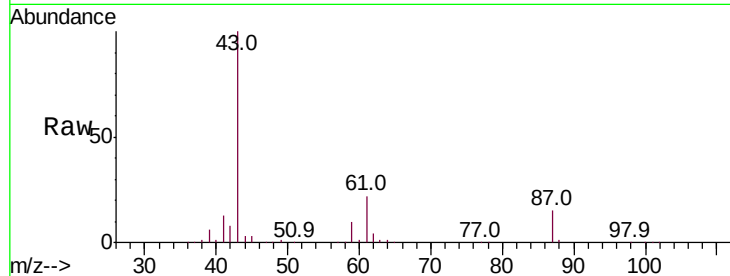
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	367010
Ion	Ratio	Lower	Upper
43	100		
61	26.9	22.1	33.1
87	14.7	11.8	17.6

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM



#44

Trichloroethene

Concen: 57.229 ug/l

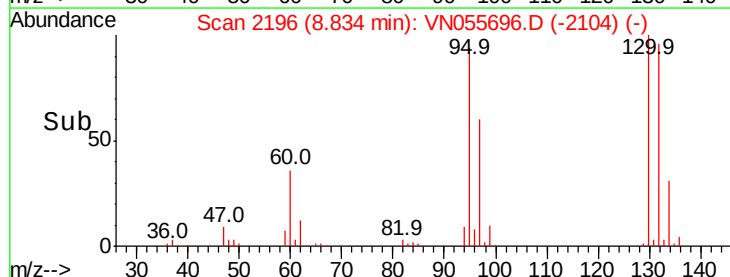
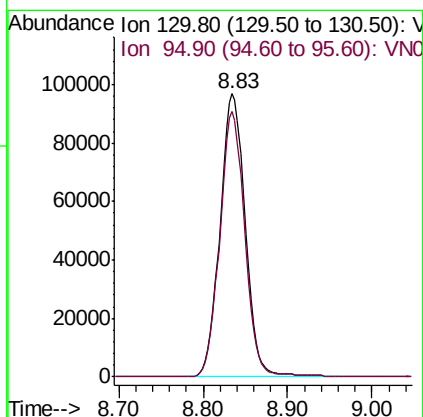
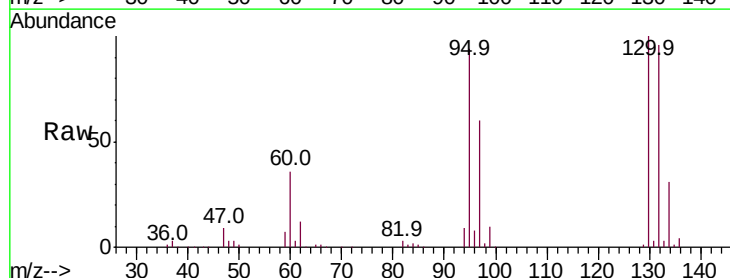
RT: 8.83 min Scan# 2196

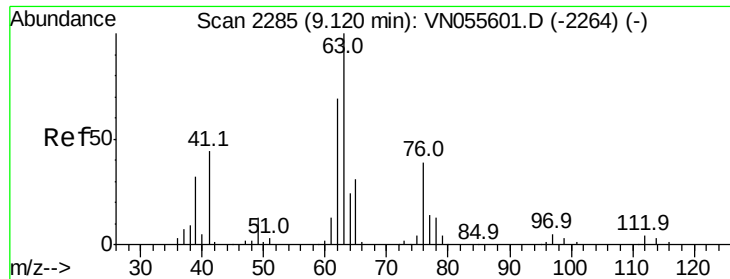
Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Tgt Ion:	130	Resp:	201384
Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	191.0





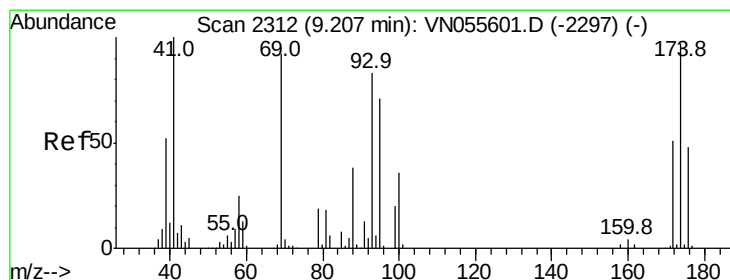
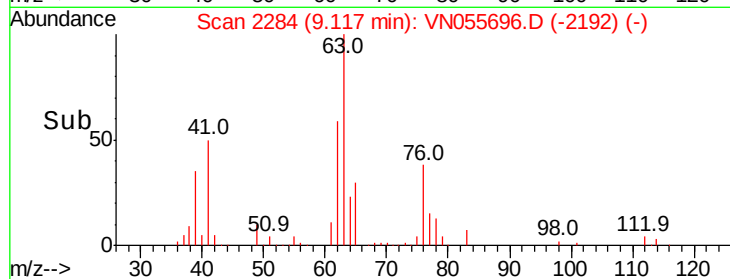
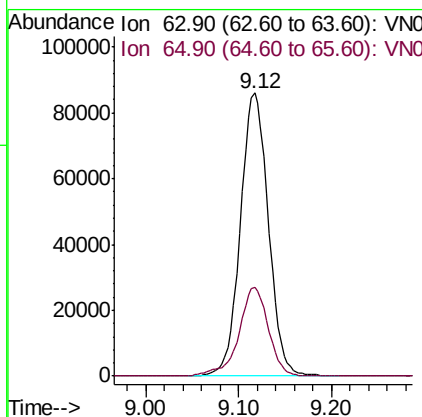
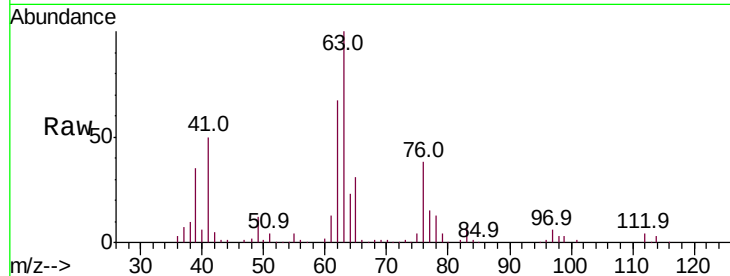
#45
 1,2-Dichloropropane
 Concen: 54.866 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.2	37.8

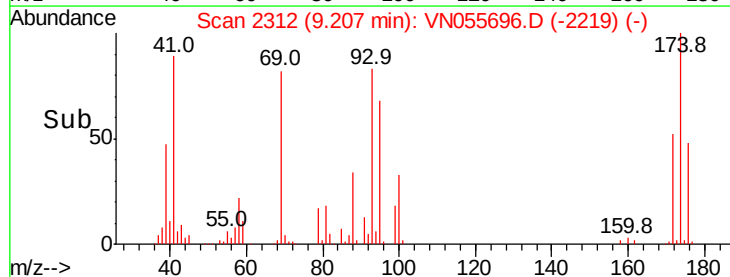
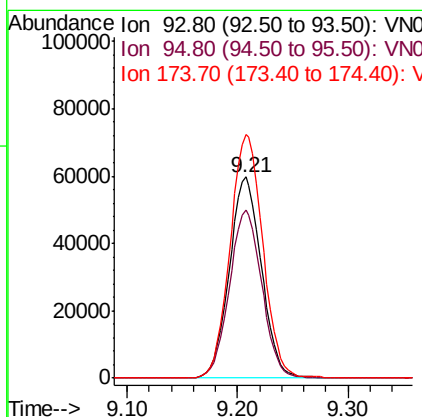
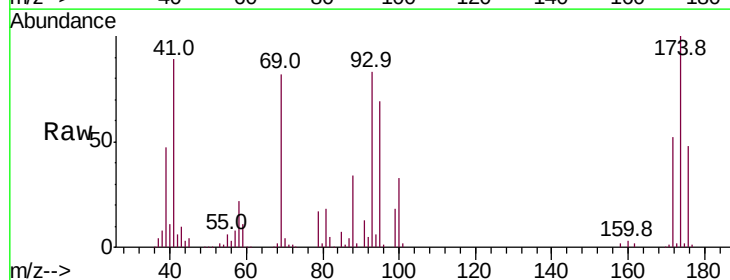
Manual Integrations
 APPROVED

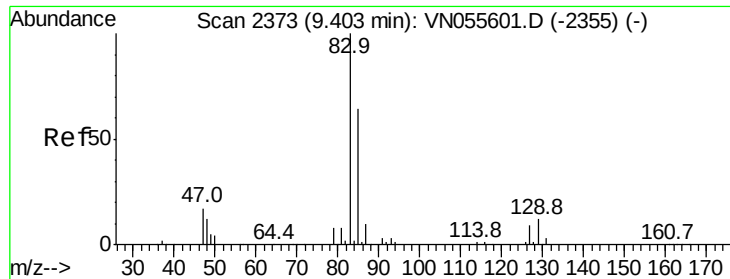
MMDadoda
 5/22/2019 4:11:07 PM



#46
 Dibromomethane
 Concen: 56.150 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.2	67.9	101.9
174	123.1	93.8	140.6





#47

Bromodichloromethane

Concen: 54.513 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

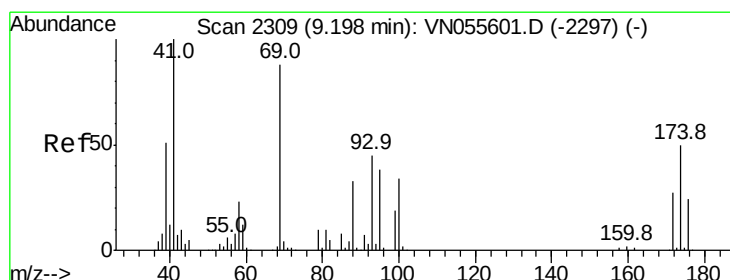
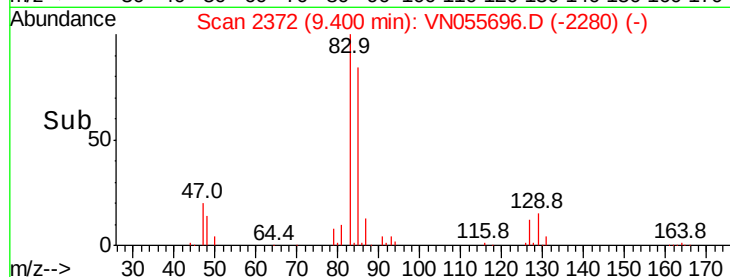
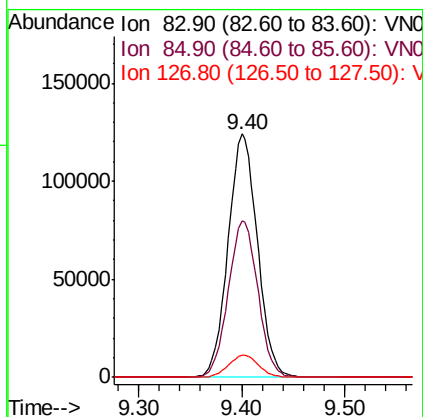
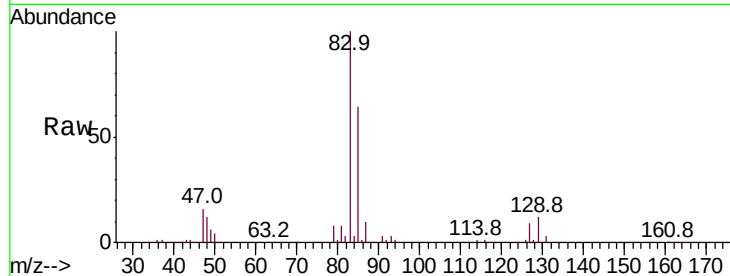
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	245664
Ion Ratio	Lower	Upper	
83	100		
85	64.4	51.4	77.0
127	9.2	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM



#48

Methyl methacrylate

Concen: 55.161 ug/l

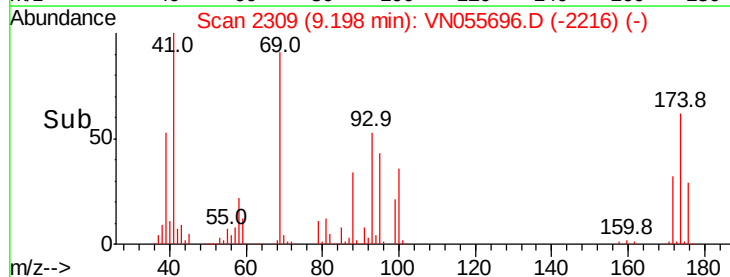
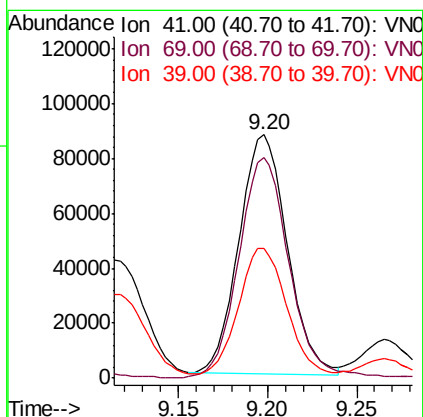
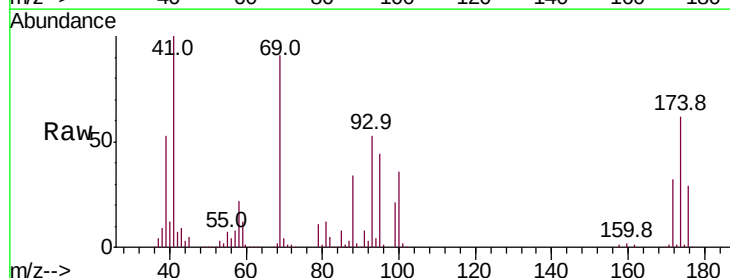
RT: 9.20 min Scan# 2309

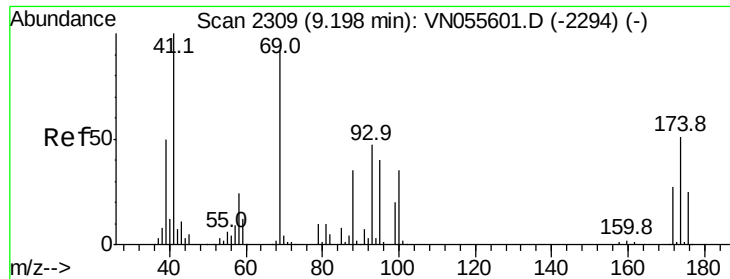
Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Tgt Ion:	41	Resp:	164087
Ion Ratio	Lower	Upper	
41	100		
69	96.9	74.2	111.2
39	56.1	43.8	65.8





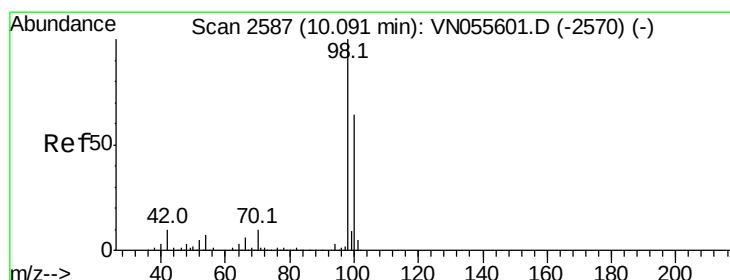
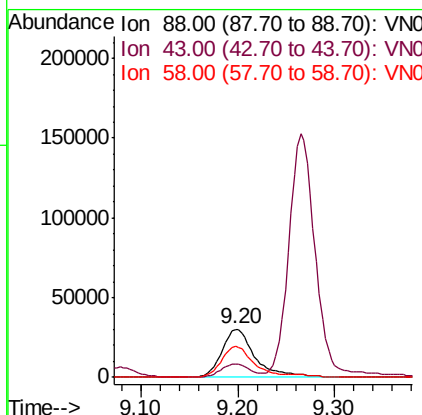
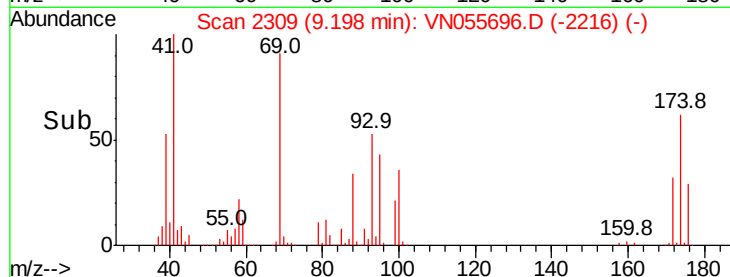
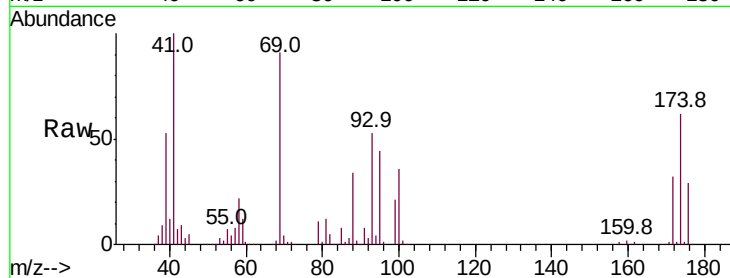
#49
1,4-Dioxane
Concen: 1218.854 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	23.1	22.4	33.6
58	62.2	53.4	80.2

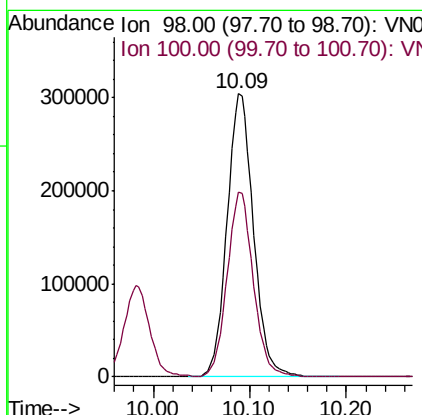
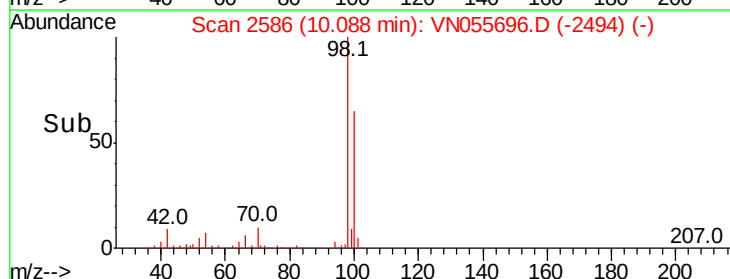
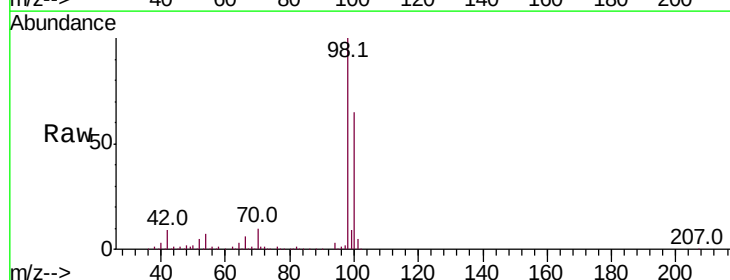
Manual Integrations
APPROVED

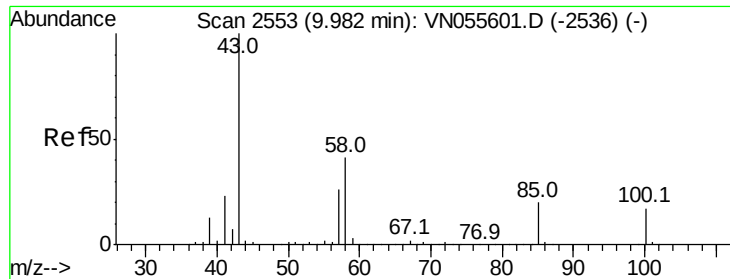
MMDadoda
5/22/2019 4:11:07 PM



#50
Toluene-d8
Concen: 50.367 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 264.825 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Tot Ion: 43 Resp: 1033836

Ion Ratio Lower Upper

43 100

58 41.6 32.7 49.1

Instrument :

MSVOA_N

ClientSampleId :

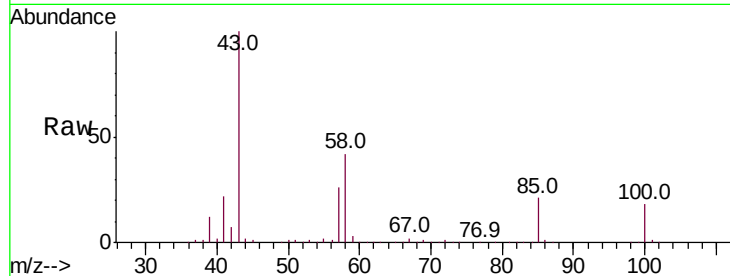
VSTDCCC050

Manual Integrations

APPROVED

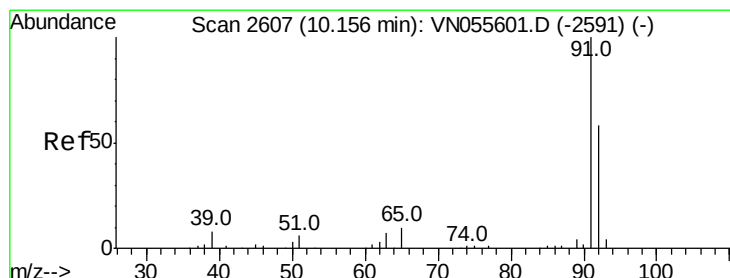
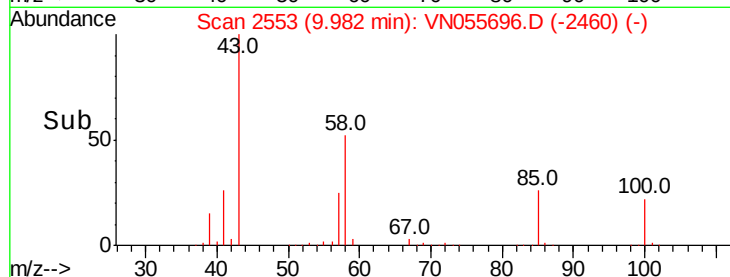
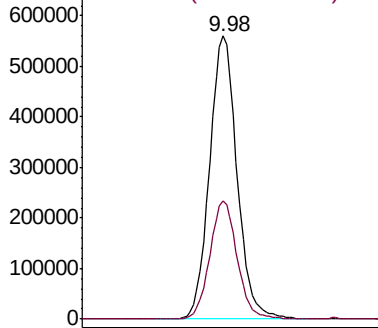
MMDadoda

5/22/2019 4:11:07 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 56.687 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN055696.D

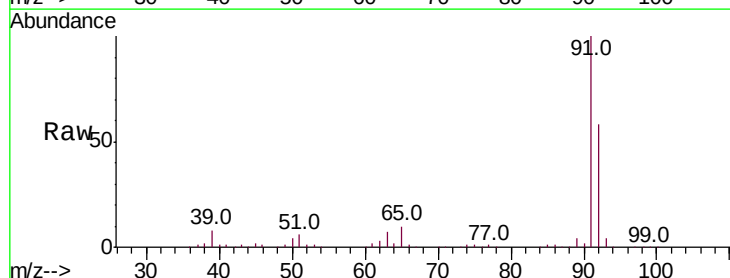
Acq: 21 May 2019 9:27

Tgt Ion: 92 Resp: 443394

Ion Ratio Lower Upper

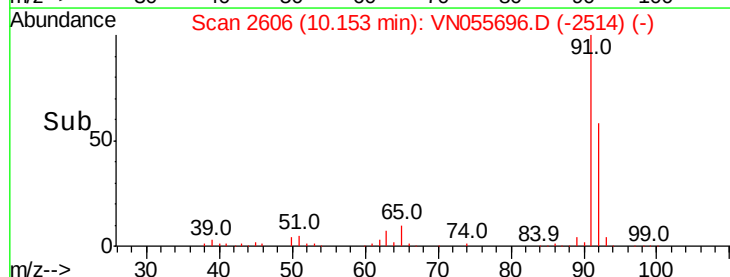
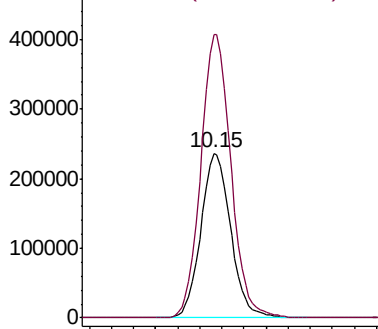
92 100

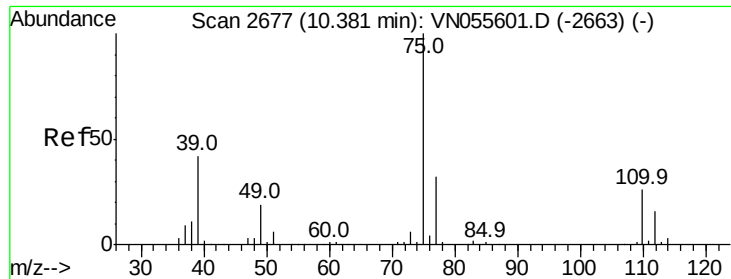
91 173.5 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 56.505 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 274069

Ion Ratio Lower Upper

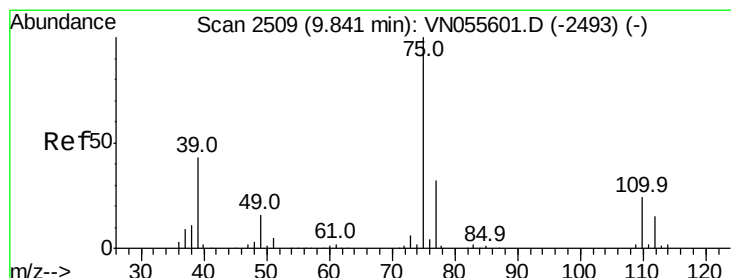
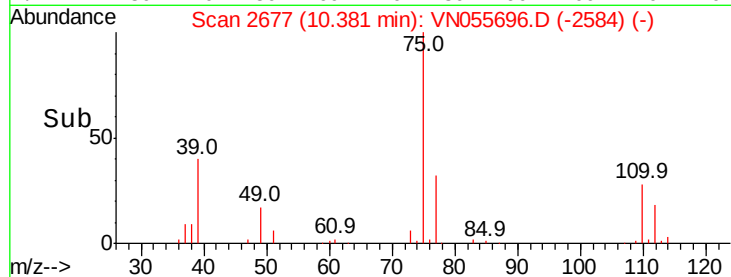
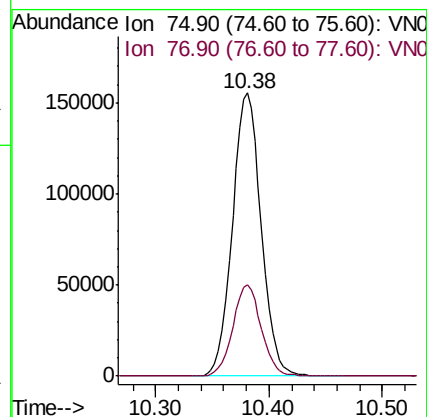
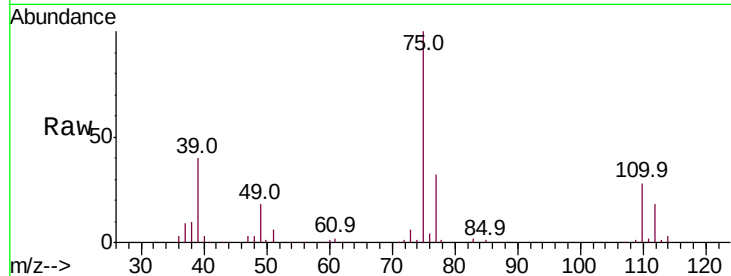
75 100

77 32.1 25.4 38.2

Manual Integrations
APPROVED

MMDadoda

5/22/2019 4:11:07 PM



#54

cis-1,3-Dichloropropene

Concen: 56.331 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

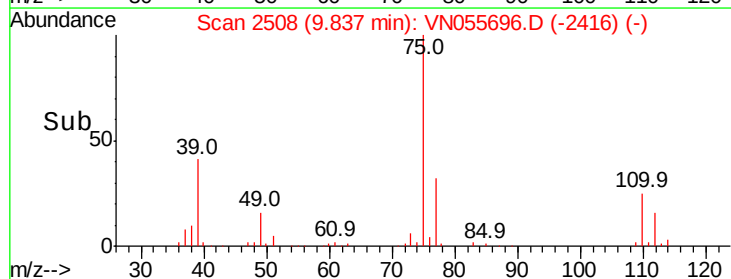
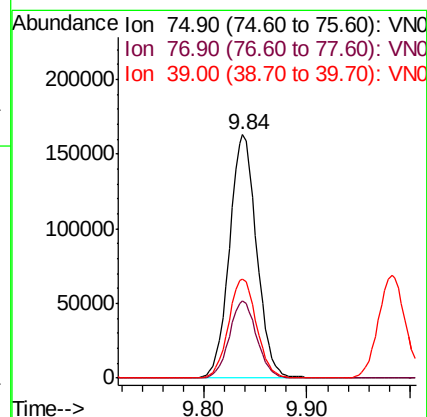
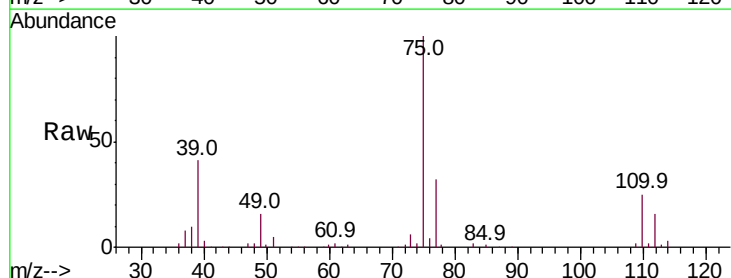
Tgt Ion: 75 Resp: 299324

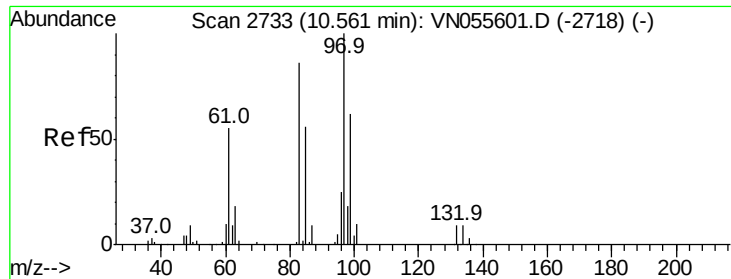
Ion Ratio Lower Upper

75 100

77 31.7 25.7 38.5

39 40.9 34.7 52.1





#55

1,1,2-Trichloroethane

Concen: 55.741 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

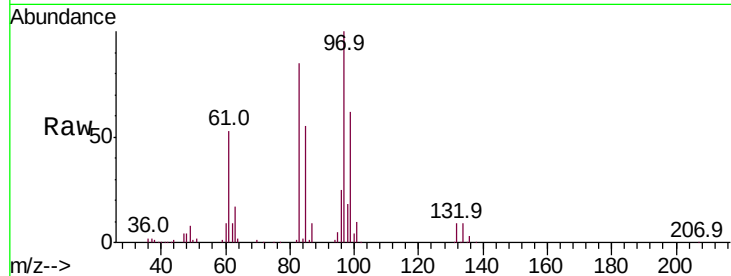
ClientSampleId :

VSTDCCC050

Tot Ion	97	Resp	179493
Ion	Ratio	Lower	Upper
97	100		
83	84.8	68.4	102.6
85	55.1	44.8	67.2
99	62.1	49.9	74.9

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM



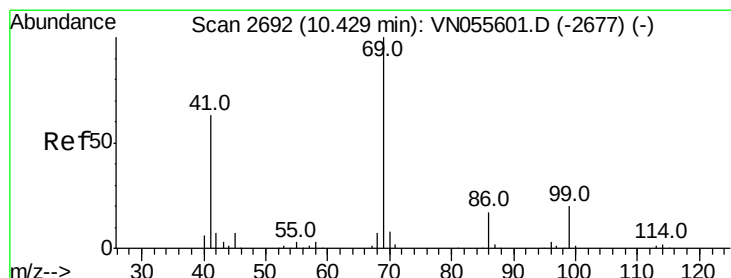
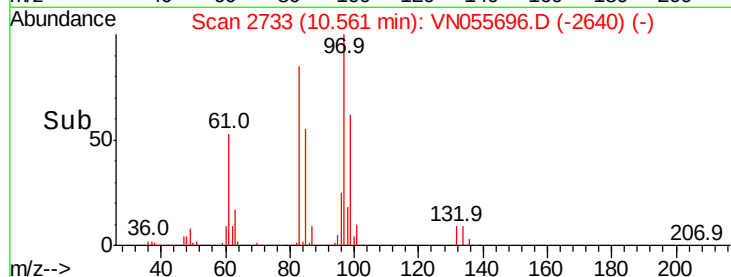
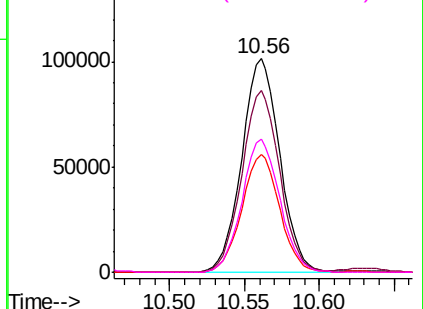
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 54.287 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

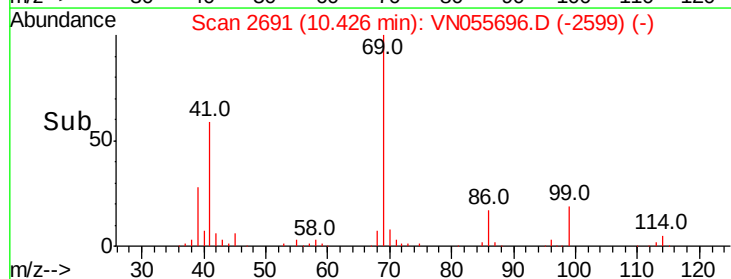
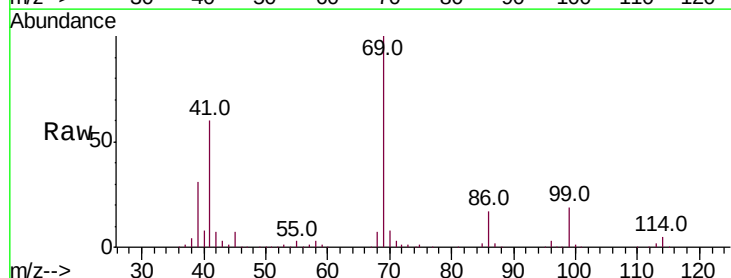
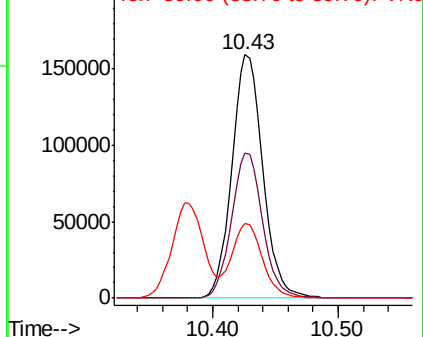
Tgt Ion	69	Resp	272885
Ion	Ratio	Lower	Upper
69	100		
41	59.7	50.3	75.5
39	30.8	25.4	38.2

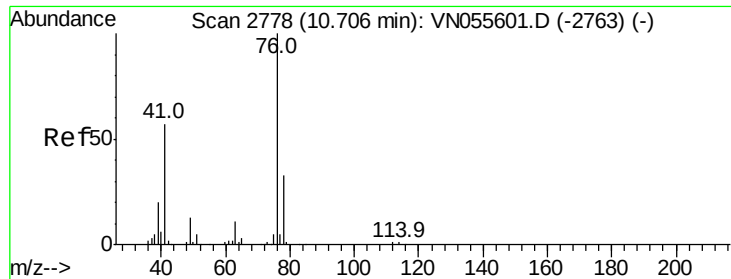
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 56.025 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 285727

Ion Ratio Lower Upper

76 100

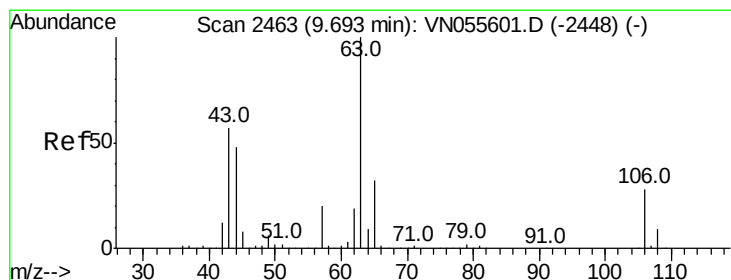
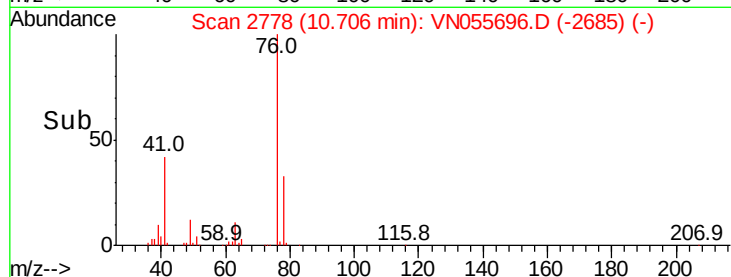
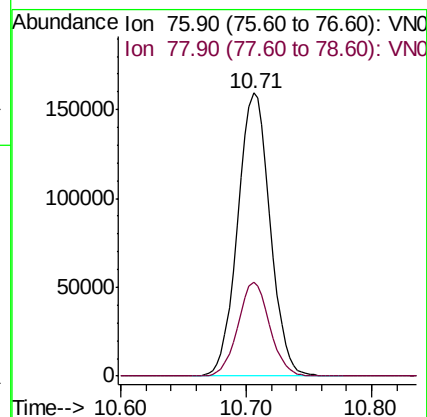
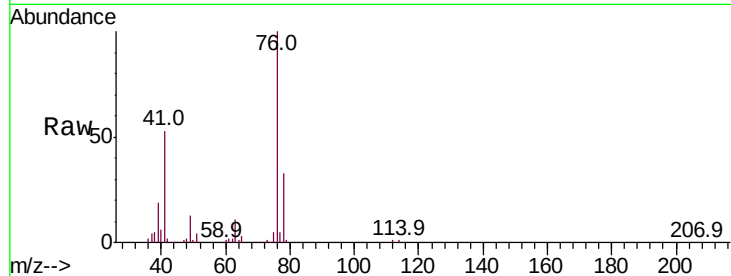
78 32.4 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:07 PM



#58

2-Chloroethyl Vinyl ether

Concen: 220.013 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN055696.D

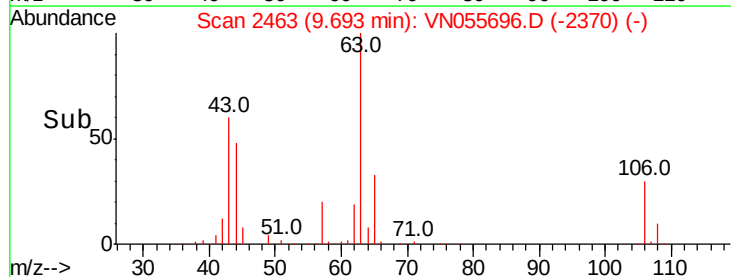
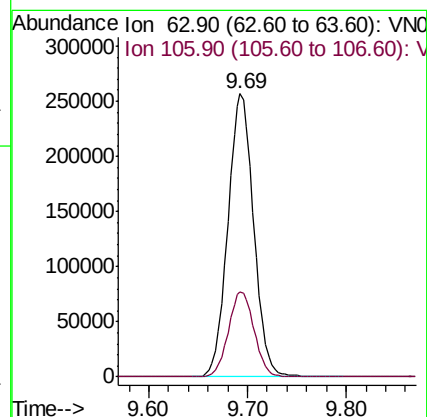
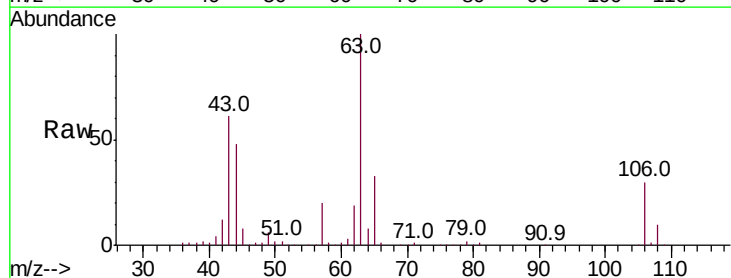
Acq: 21 May 2019 9:27

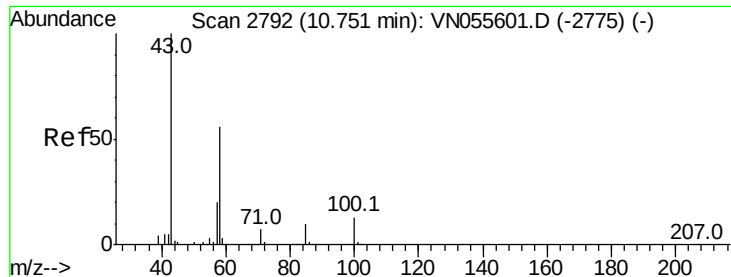
Tgt Ion: 63 Resp: 469916

Ion Ratio Lower Upper

63 100

106 30.1 23.0 34.6





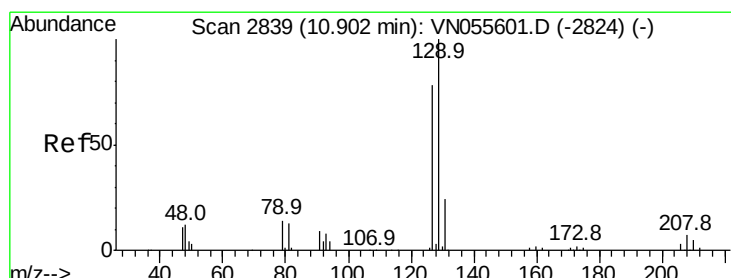
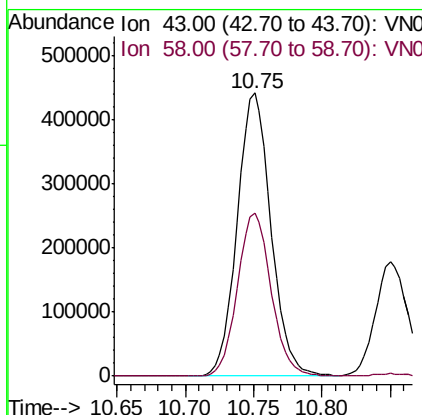
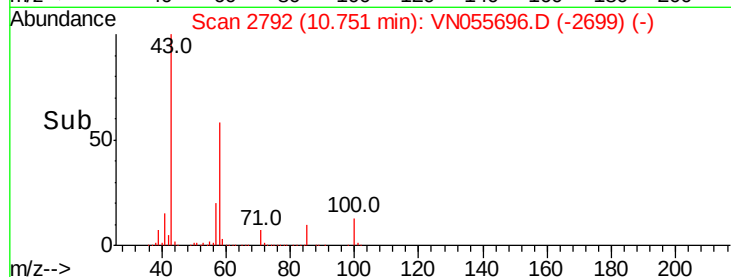
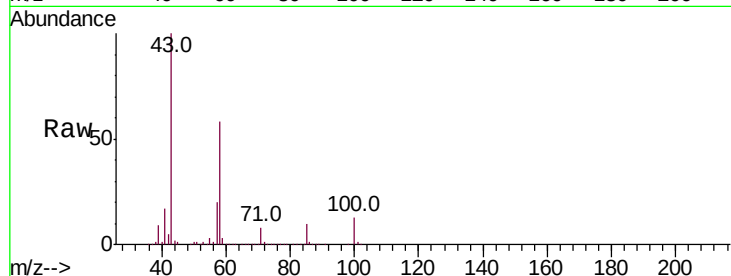
#59
2-Hexanone
Concen: 275.207 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.7	28.1	84.4

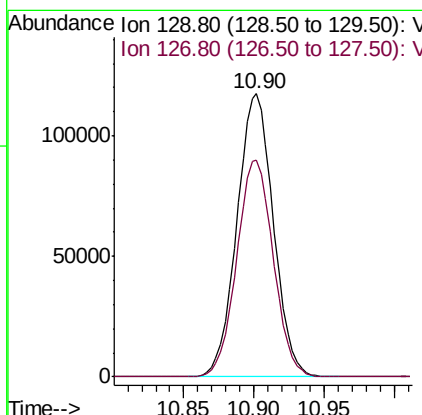
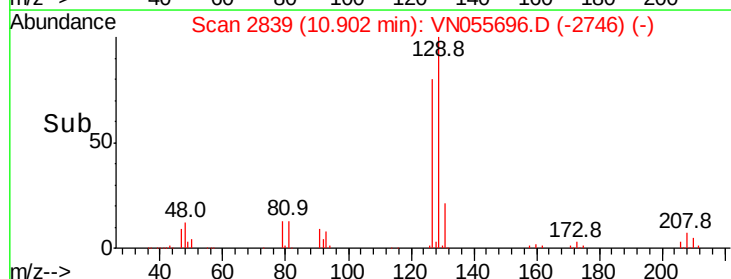
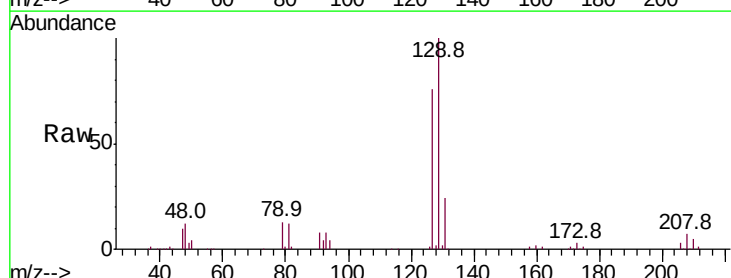
Manual Integrations
APPROVED

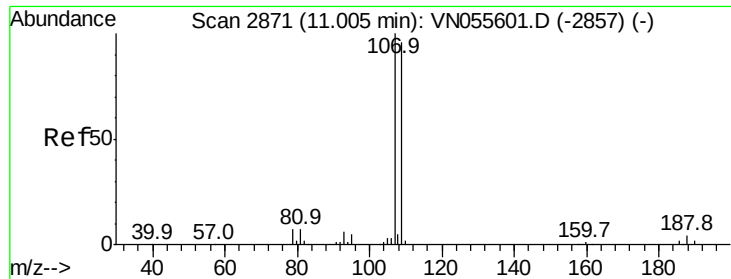
MMDadoda
5/22/2019 4:11:07 PM



#60
Dibromochloromethane
Concen: 58.219 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.6	115.8





#61

1,2-Dibromoethane

Concen: 57.225 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 184377

Ion Ratio Lower Upper

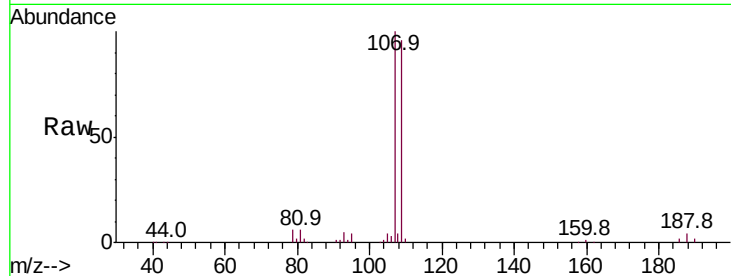
107 100

109 95.7 75.6 113.4

Manual Integrations
APPROVED

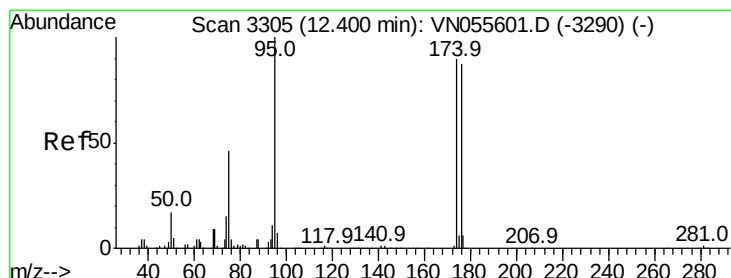
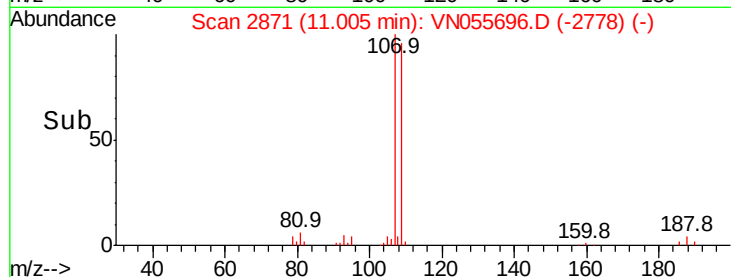
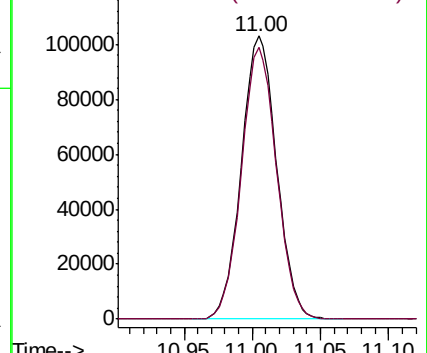
MMDadoda

5/22/2019 4:11:07 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 50.587 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

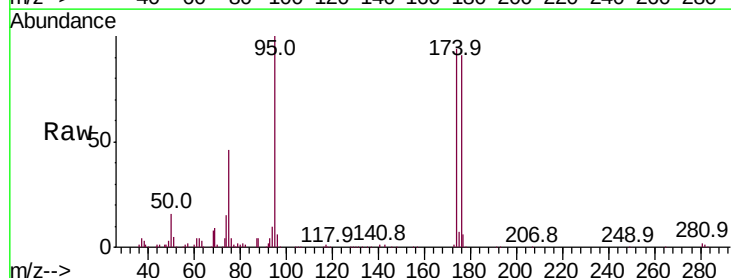
Tgt Ion: 95 Resp: 199535

Ion Ratio Lower Upper

95 100

174 95.4 0.0 180.6

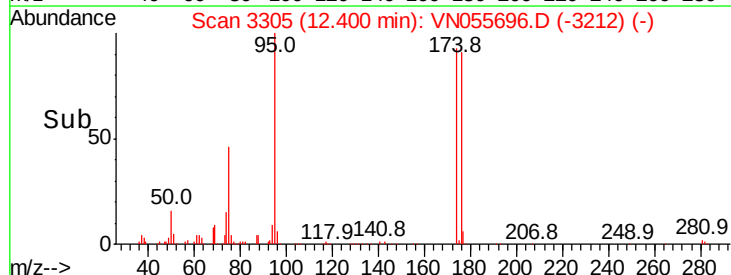
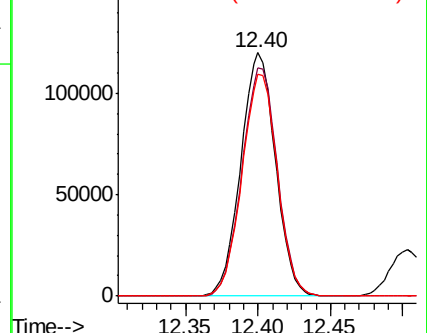
176 92.7 0.0 177.4

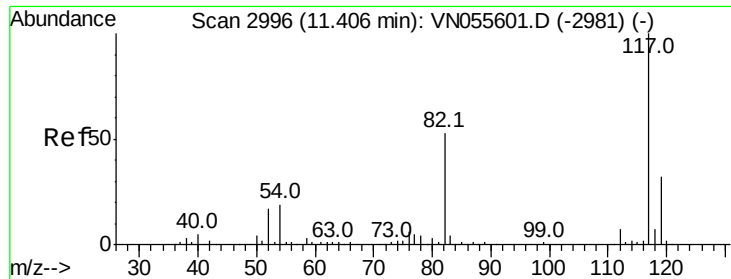


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





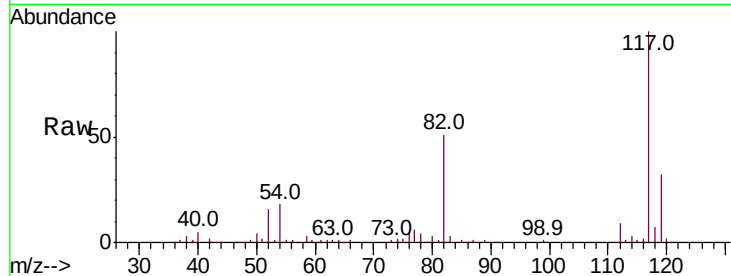
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.2	42.3	63.5
119	32.4	25.4	38.2

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM

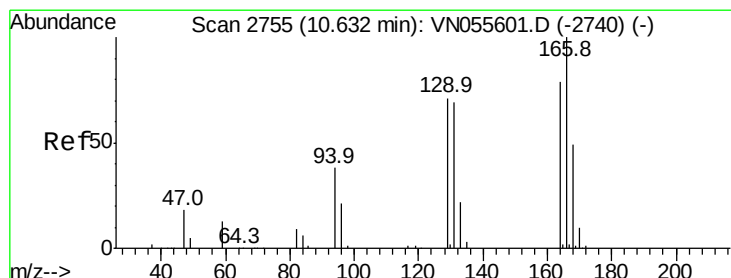
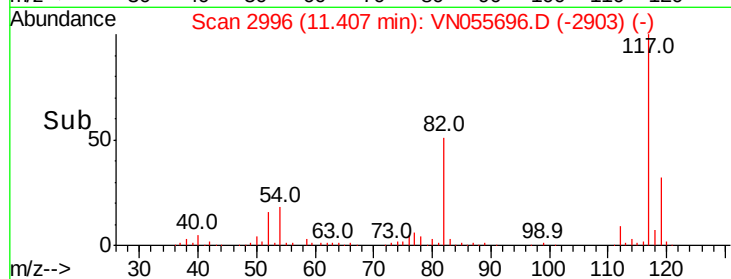
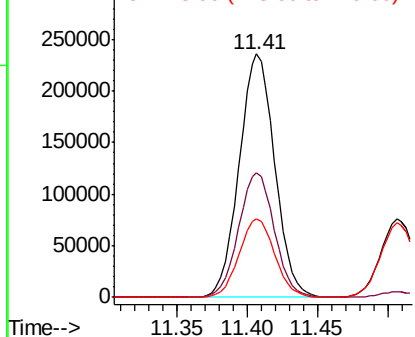


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 57.699 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.7	101.0	151.6
129	88.0	71.7	107.5
131	86.1	69.6	104.4

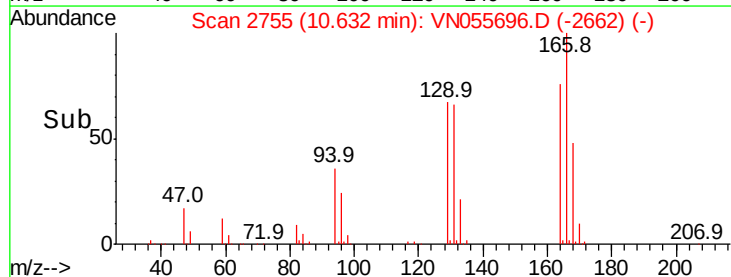
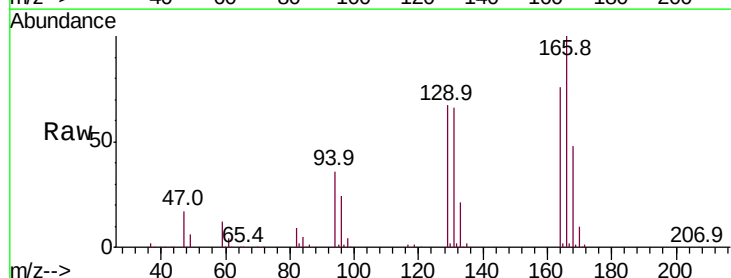
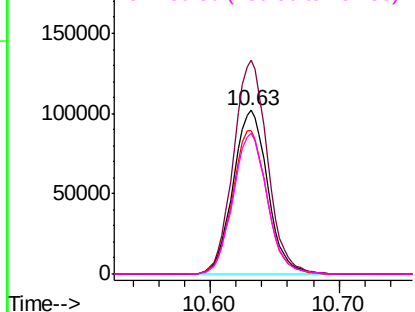
Abundance

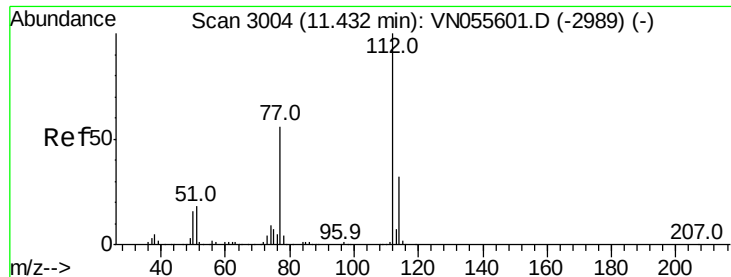
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





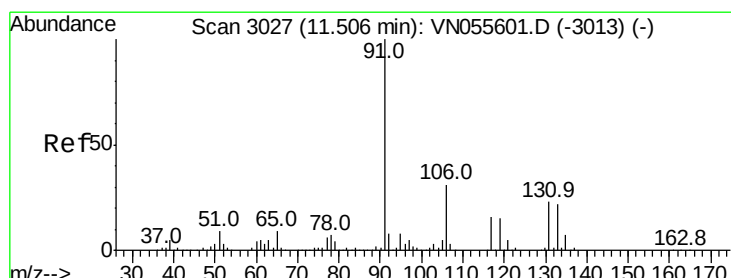
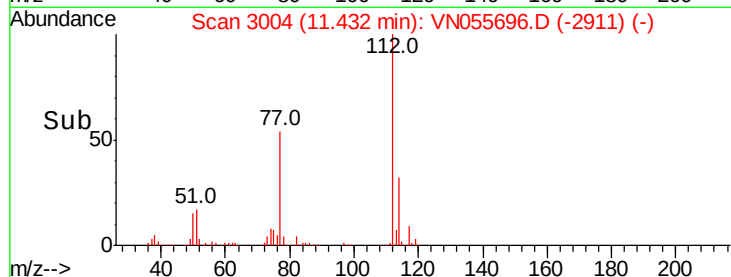
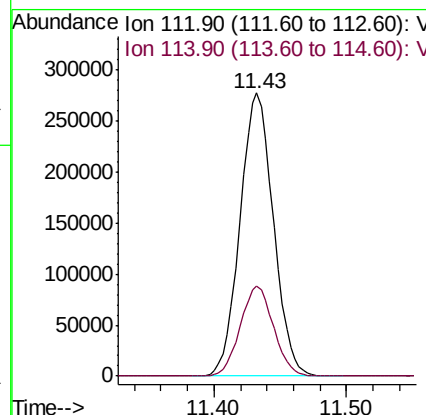
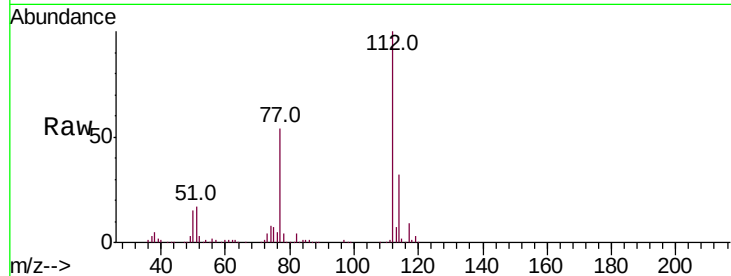
#65
Chlorobenzene
Concen: 57.462 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
112	100	484878		
114	31.7	25.6	38.4	

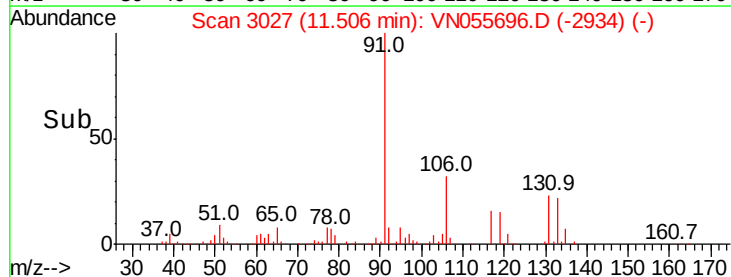
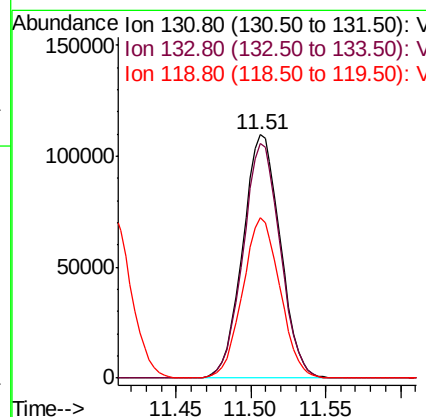
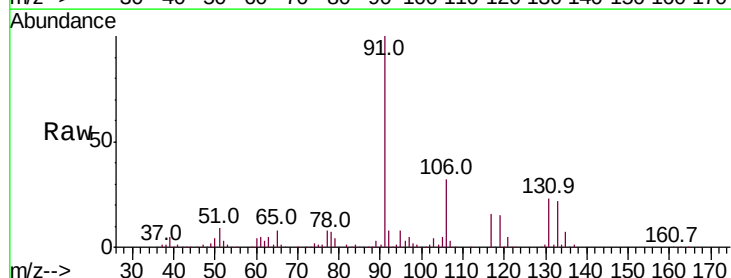
Manual Integrations
APPROVED

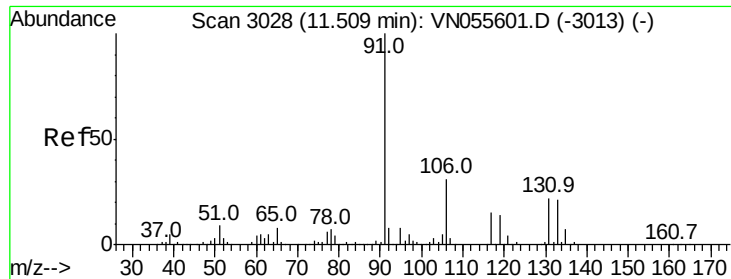
MMDadoda
5/22/2019 4:11:07 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 56.429 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	191556		
133	95.6	47.8	143.4	
119	65.7	33.3	99.8	





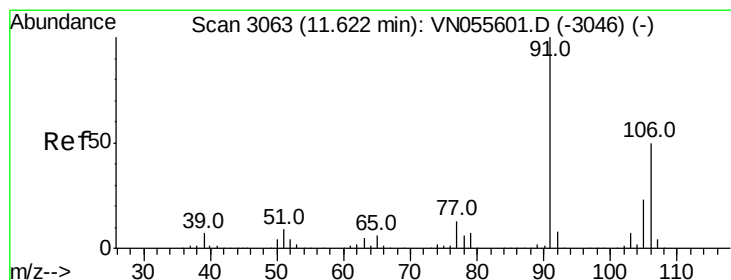
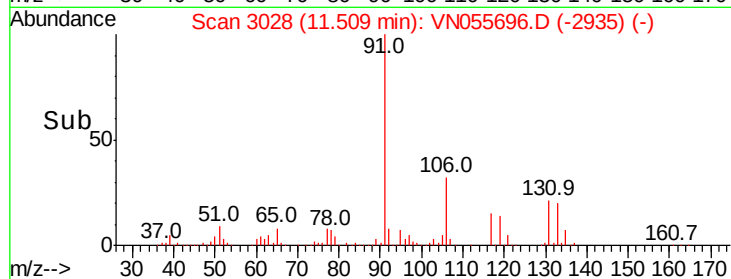
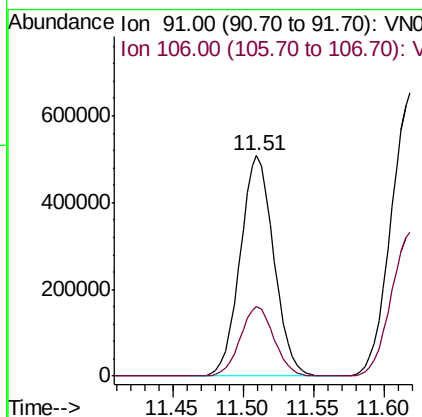
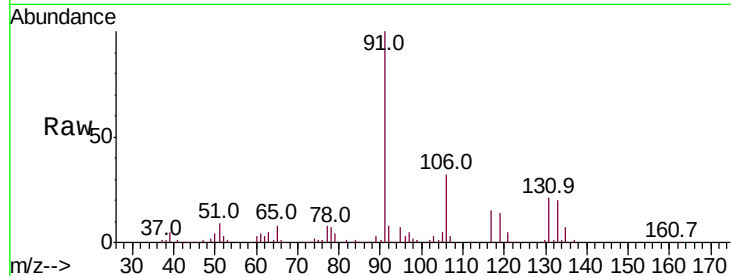
#67
Ethyl Benzene
Concen: 56.448 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 848533
Ion Ratio Lower Upper
91 100
106 31.7 25.2 37.8

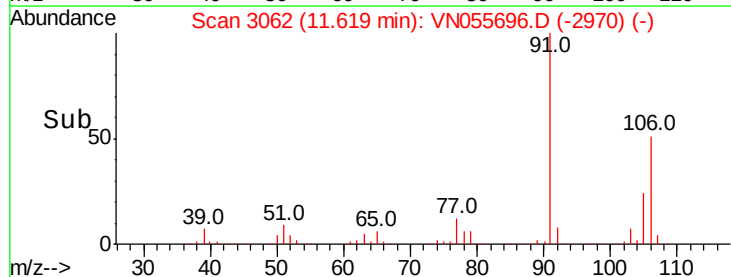
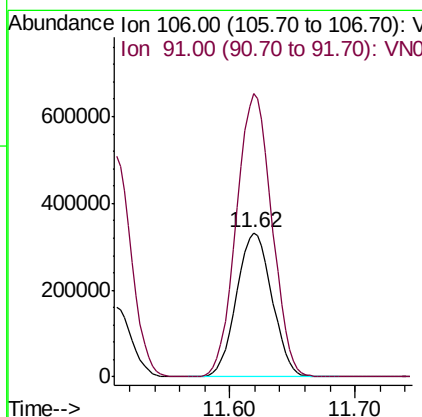
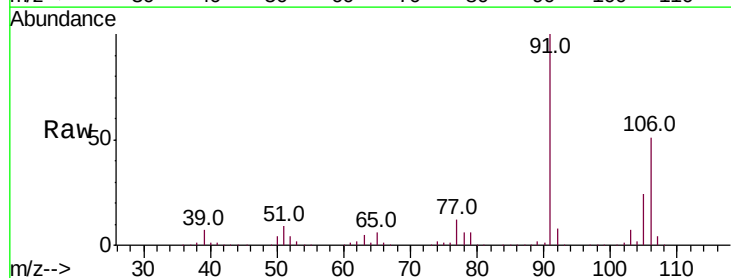
Manual Integrations
APPROVED

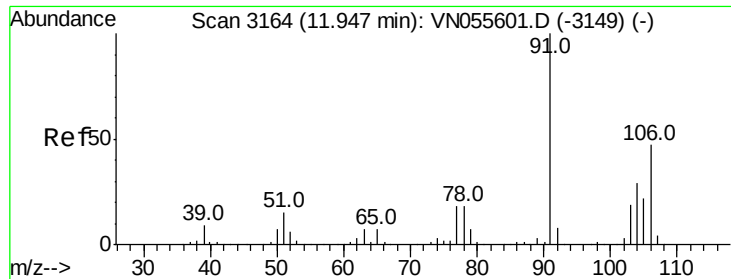
MMDadoda
5/22/2019 4:11:07 PM



#68
m/p-Xylenes
Concen: 115.177 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion: 106 Resp: 653821
Ion Ratio Lower Upper
106 100
91 196.5 160.5 240.7





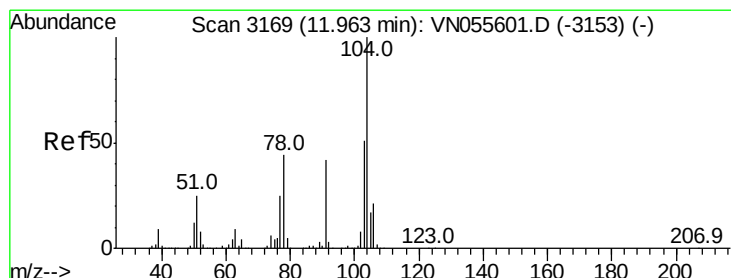
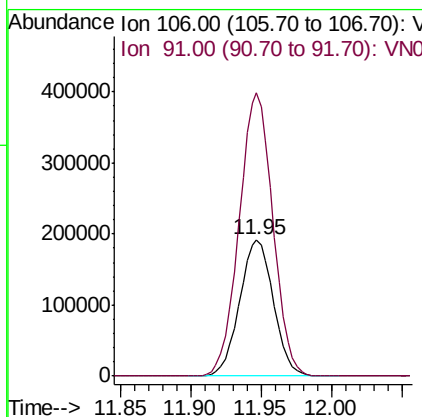
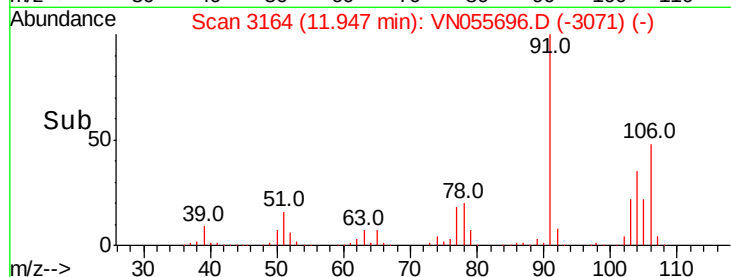
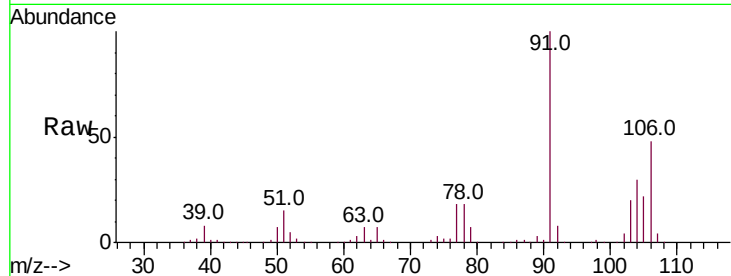
#69
o-Xylene
Concen: 57.906 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 321509
Ion Ratio Lower Upper
106 100
91 207.3 106.7 320.2

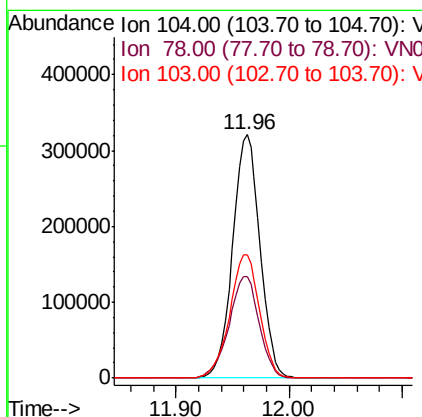
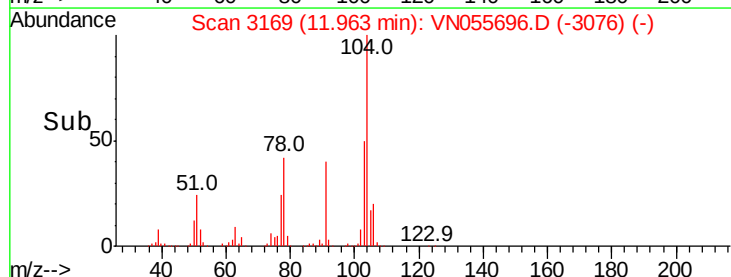
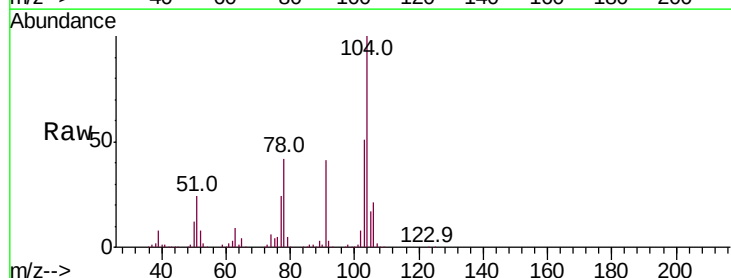
Manual Integrations
APPROVED

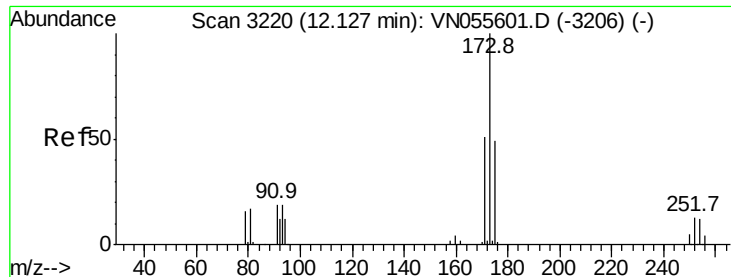
MMDadoda
5/22/2019 4:11:07 PM



#70
Styrene
Concen: 58.388 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion:104 Resp: 539028
Ion Ratio Lower Upper
104 100
78 46.1 38.6 58.0
103 55.2 44.4 66.6





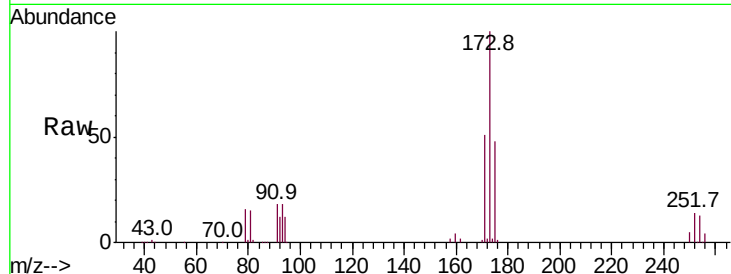
#71
Bromoform
Concen: 58.953 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	72.9
254	0.1	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM

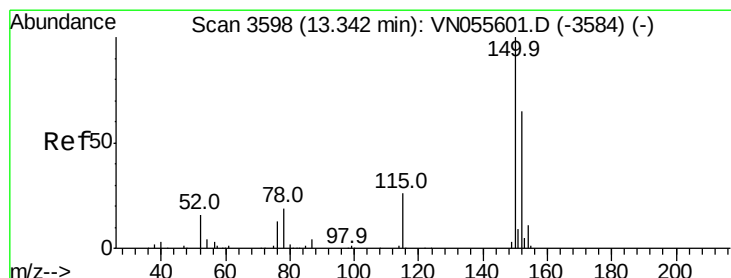
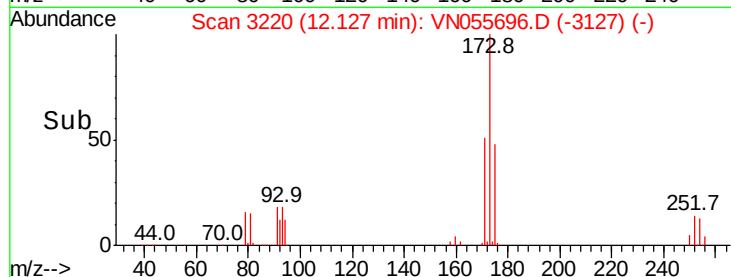
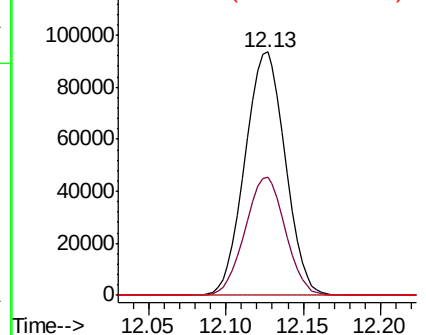


Abundance

Ion 172.70 (172.40 to 173.40): V

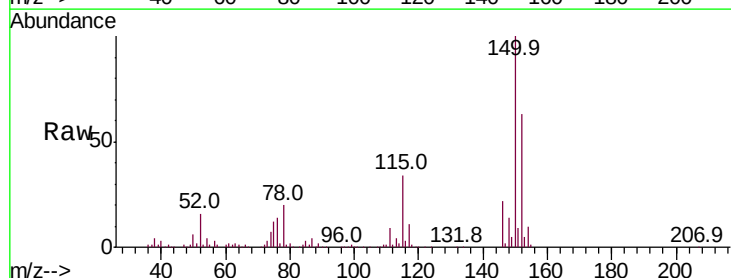
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.0	28.1	84.2
150	176.6	0.0	348.0

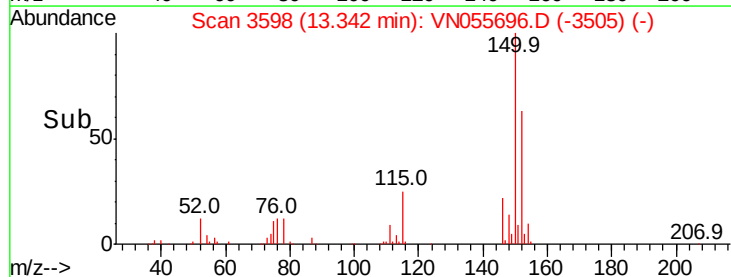
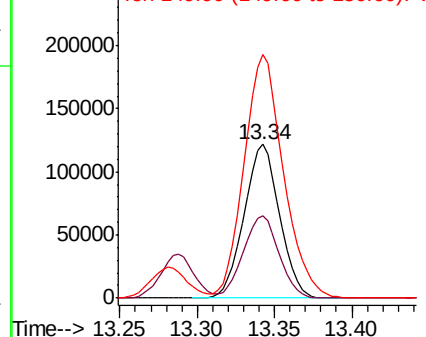


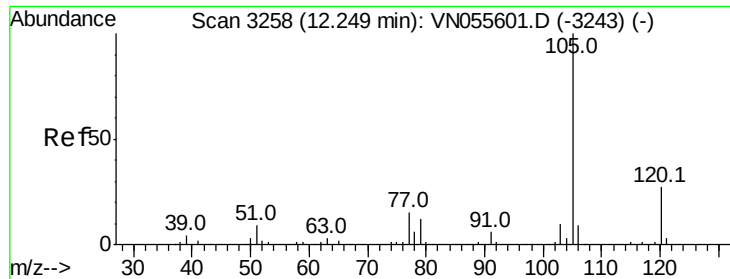
Abundance

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: 62.751 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 843559

Ion Ratio Lower Upper

105 100

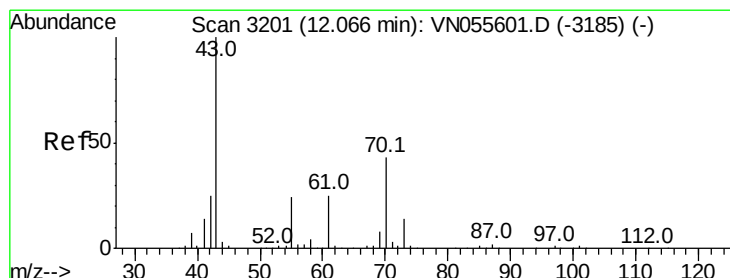
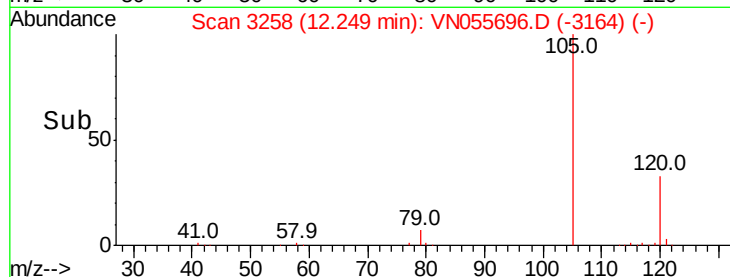
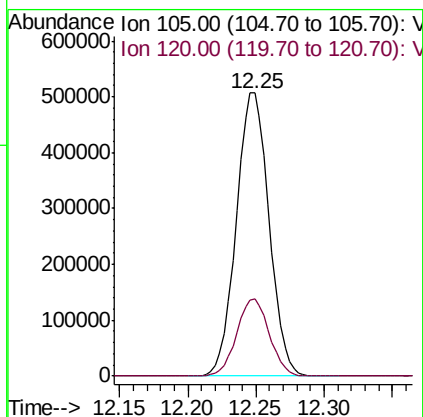
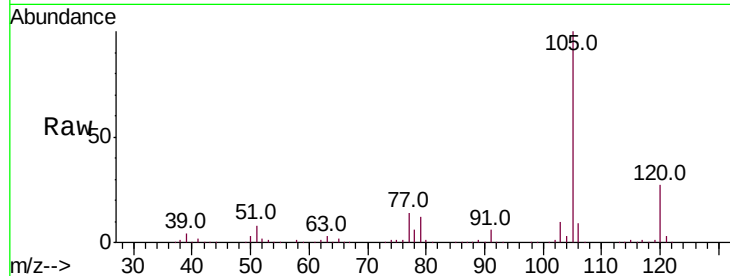
120 27.0 13.4 40.2

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:07 PM



#74

N-ethyl acetate

Concen: 53.794 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Tgt Ion: 43 Resp: 292227

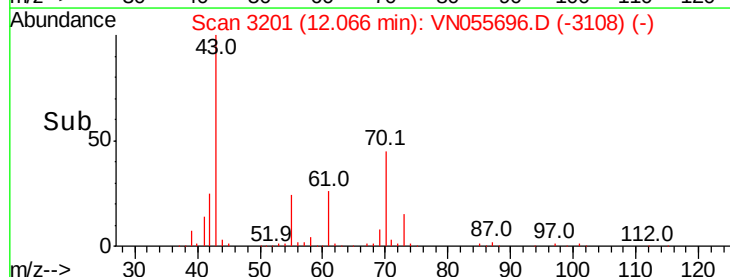
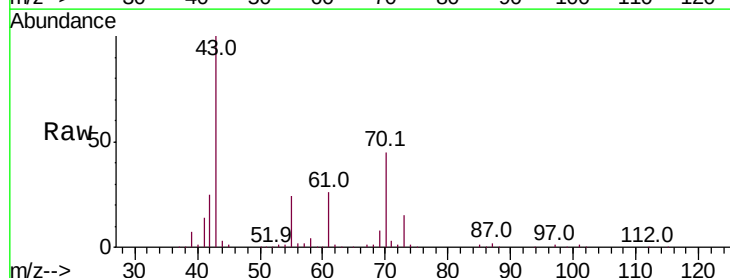
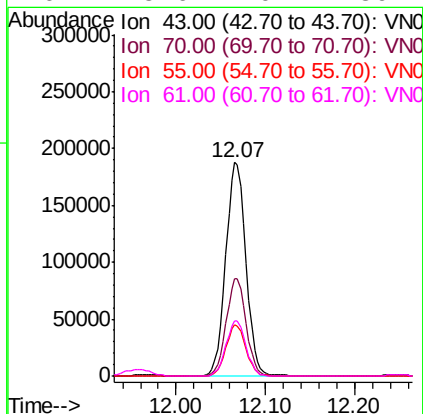
Ion Ratio Lower Upper

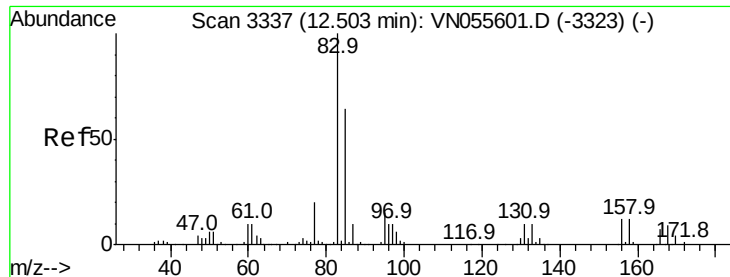
43 100

70 45.2 35.0 52.6

55 23.9 18.9 28.3

61 25.6 20.1 30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 58.513 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

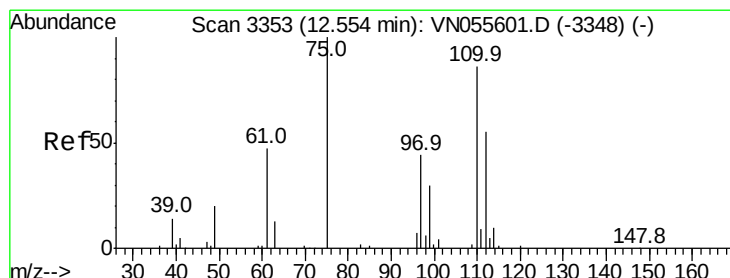
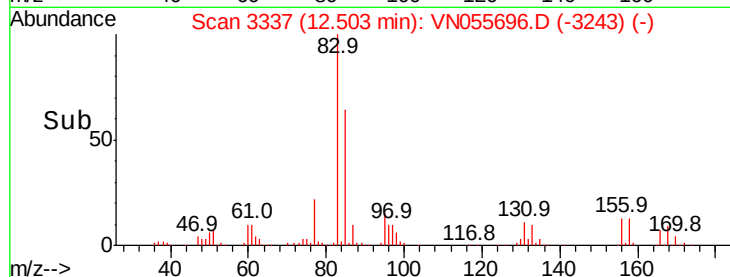
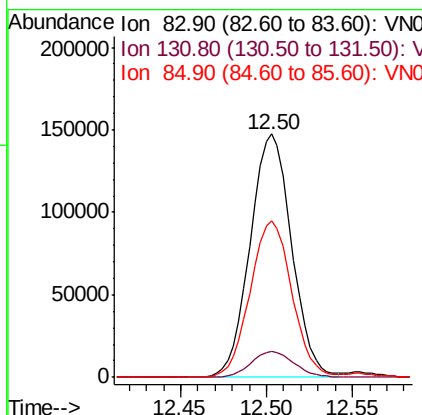
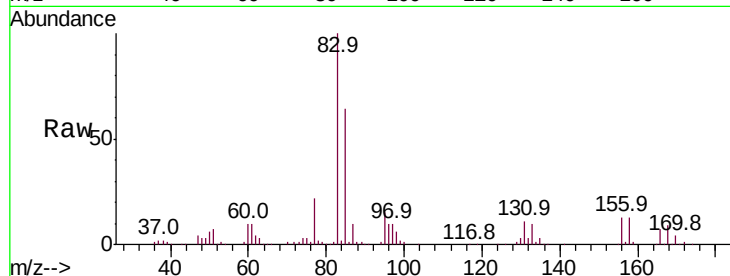
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	247253
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.3	16.1
85	64.6	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM



#76

1,2,3-Trichloropropane

Concen: 50.563 ug/l m

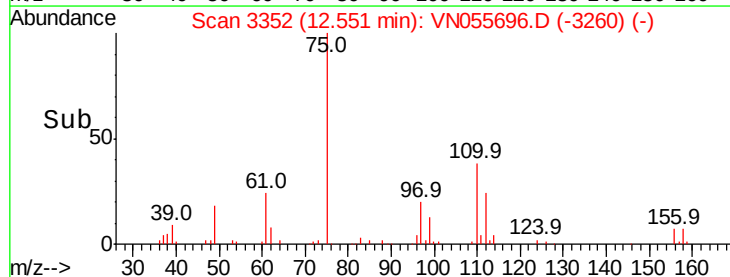
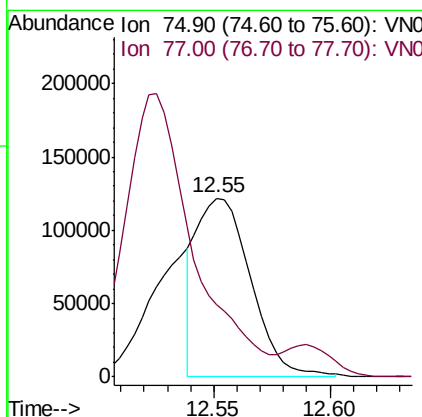
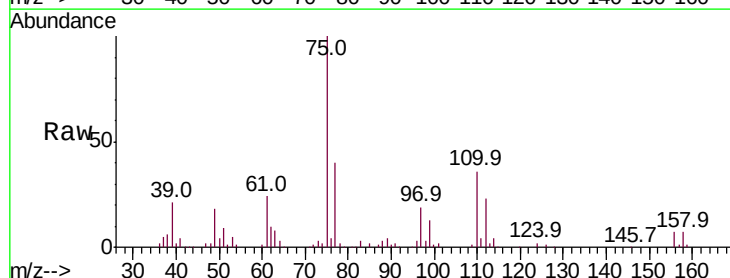
RT: 12.55 min Scan# 3352

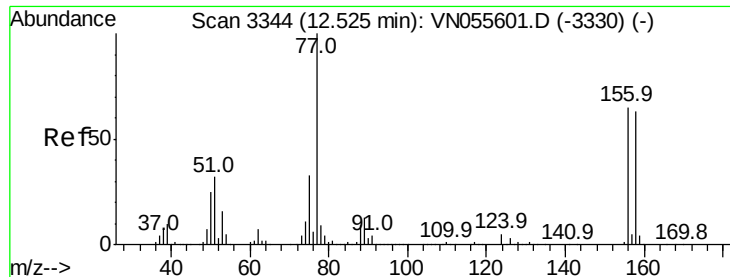
Delta R.T. -0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Tgt Ion:	75	Resp:	199602
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 56.567 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

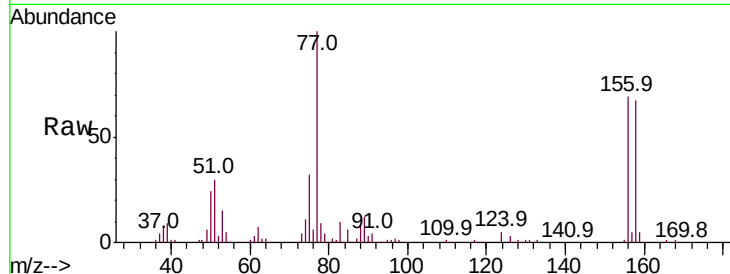
ClientSampled :

VSTDCCC050

Tot Ion:	156	Resp:	224748
Ion Ratio	Lower	Upper	
156	100		
77	175.7	94.5	283.5
158	97.5	49.0	147.2

Manual Integrations
APPROVED

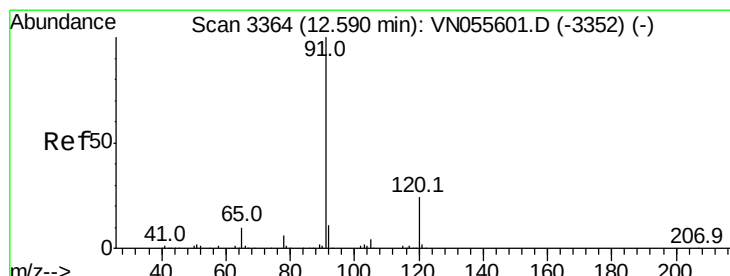
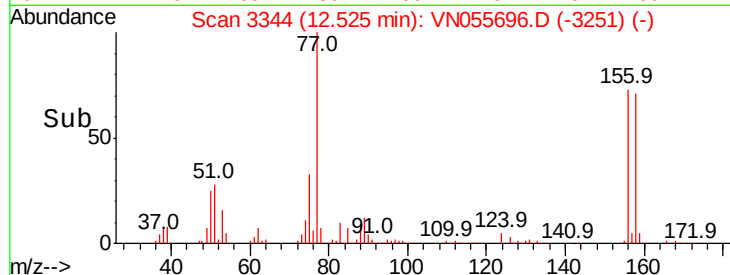
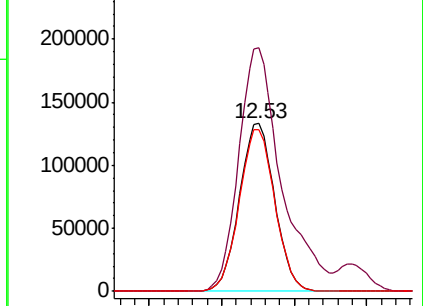
MMDadoda
5/22/2019 4:11:07 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 53.899 ug/l

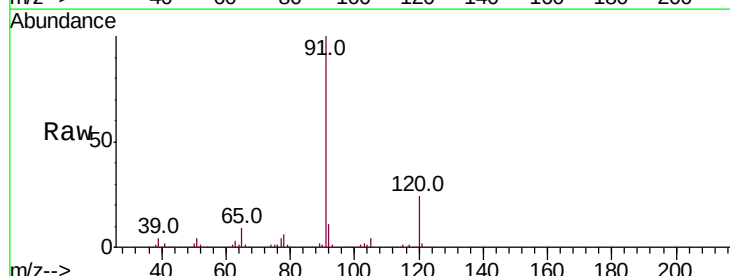
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055696.D

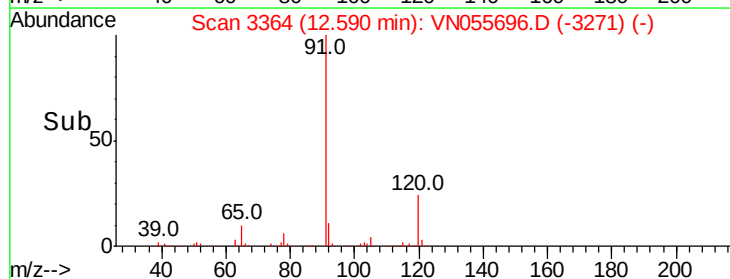
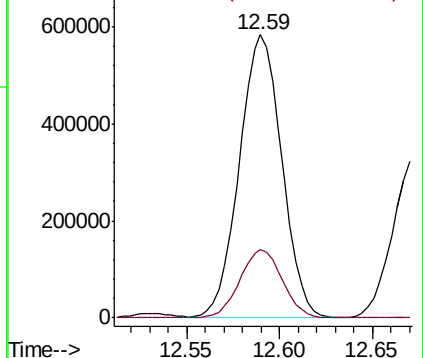
Acq: 21 May 2019 9:27

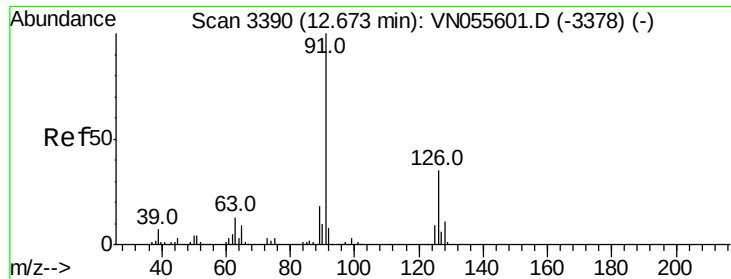
Tgt Ion:	91	Resp:	925979
Ion Ratio	Lower	Upper	
91	100		
120	24.2	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 60.720 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 554961

Ion Ratio Lower Upper

91 100

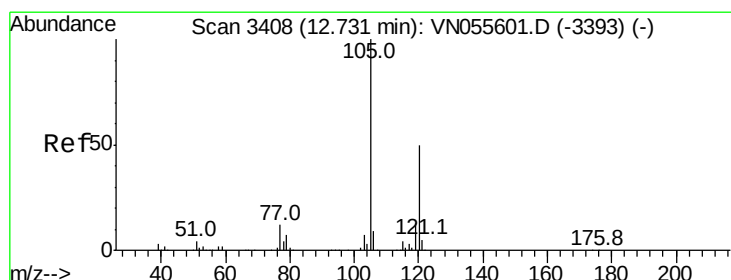
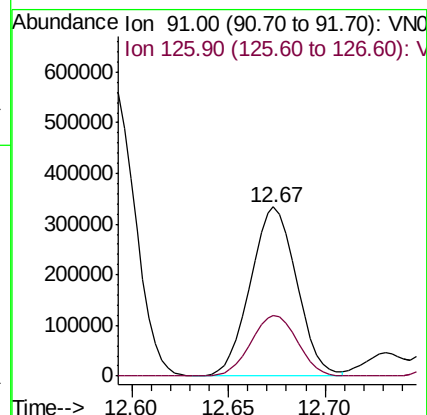
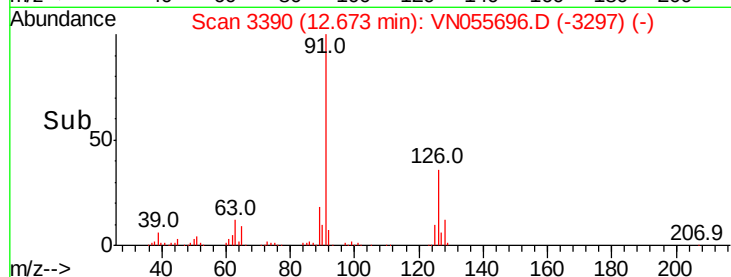
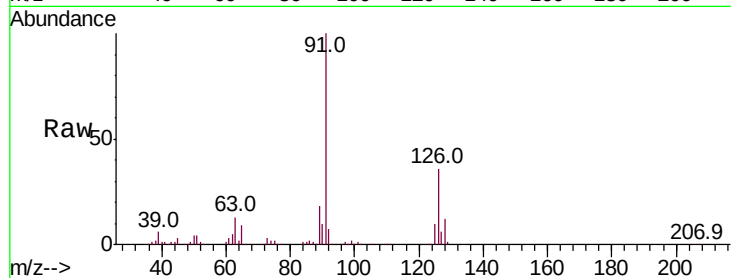
126 36.5 17.8 53.4

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:07 PM



#80

1,3,5-Trimethylbenzene

Concen: 62.267 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055696.D

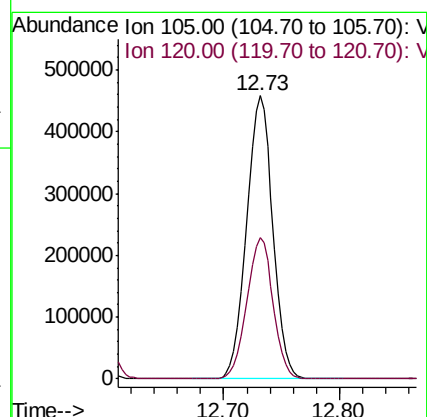
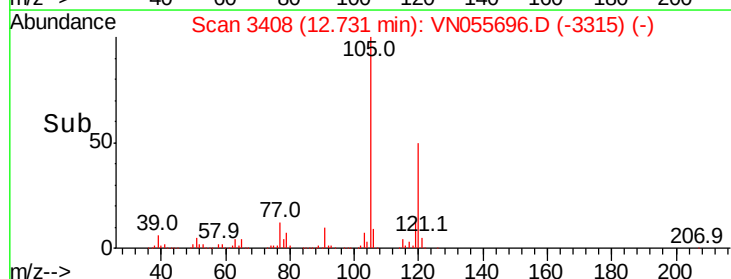
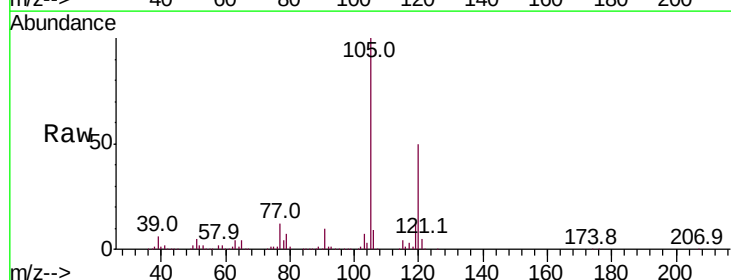
Acq: 21 May 2019 9:27

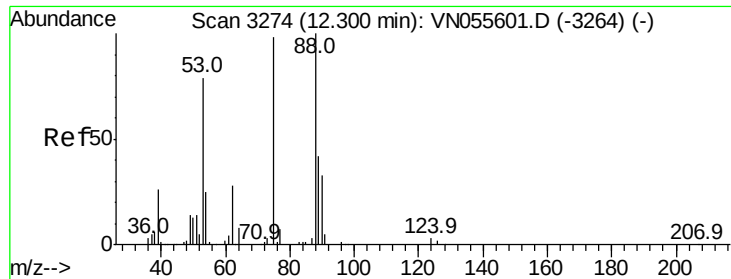
Tgt Ion: 105 Resp: 716342

Ion Ratio Lower Upper

105 100

120 50.0 24.6 74.0





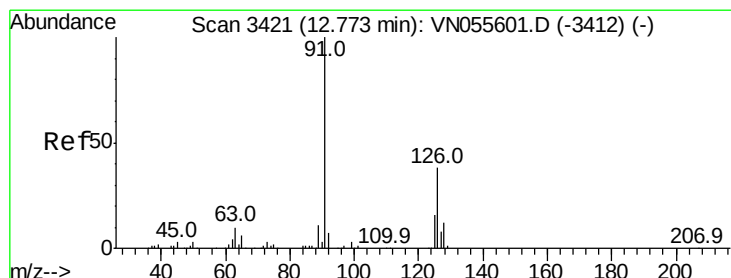
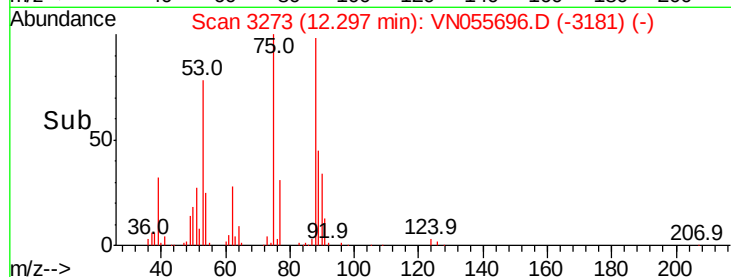
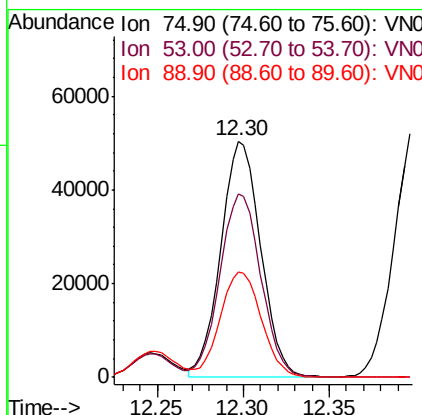
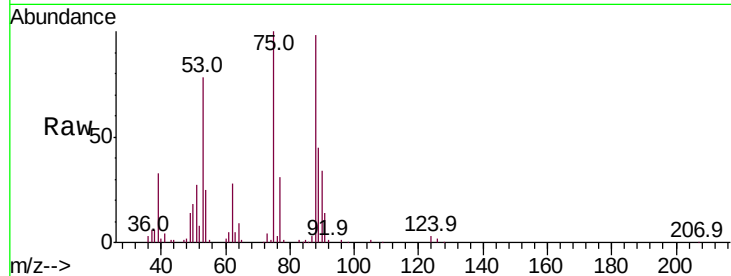
#81
trans-1,4-Dichloro-2-butene
Concen: 52.986 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	80.3	65.1	97.7
89	46.0	36.4	54.6

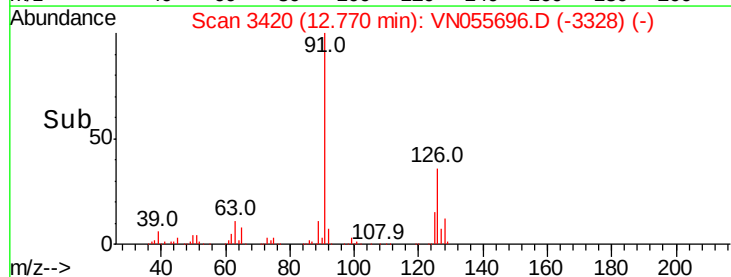
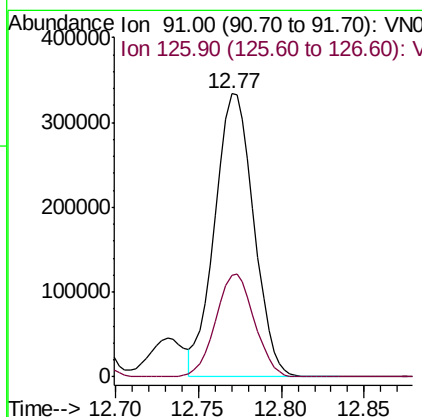
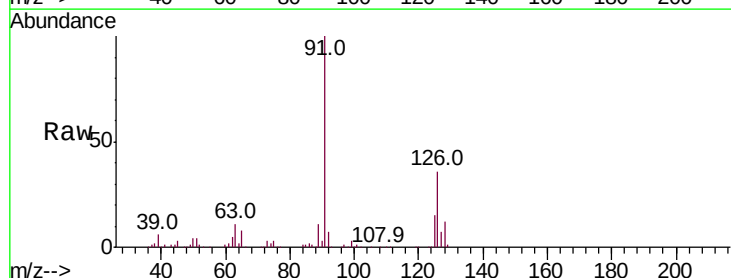
Manual Integrations
APPROVED

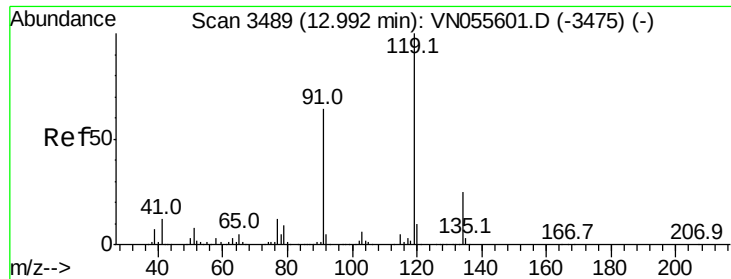
MMDadoda
5/22/2019 4:11:07 PM



#82
4-Chlorotoluene
Concen: 53.896 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.5	52.6





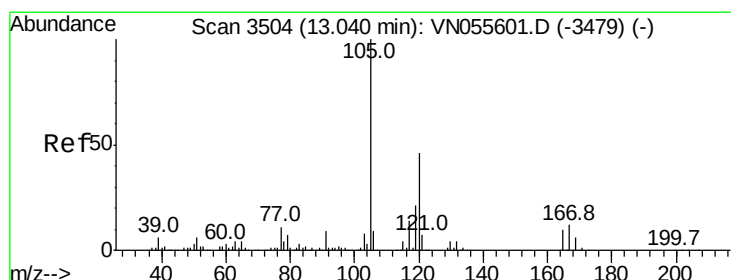
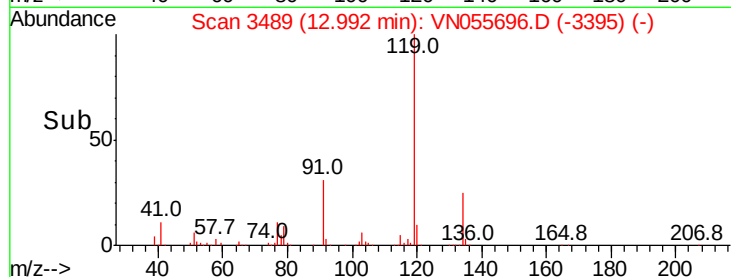
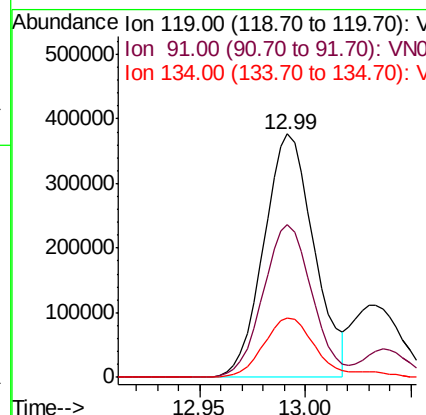
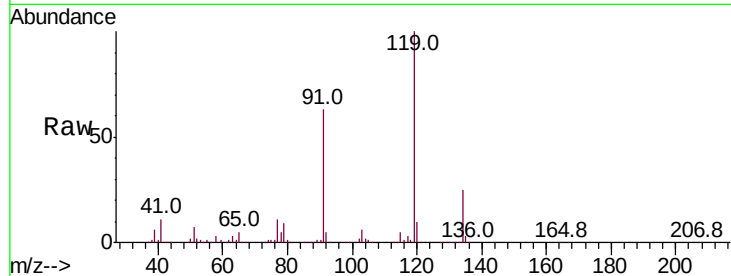
#83
 tert-Butylbenzene
 Concen: 64.112 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	623567		
91	61.2		31.3	93.8
134	26.2		13.2	39.6

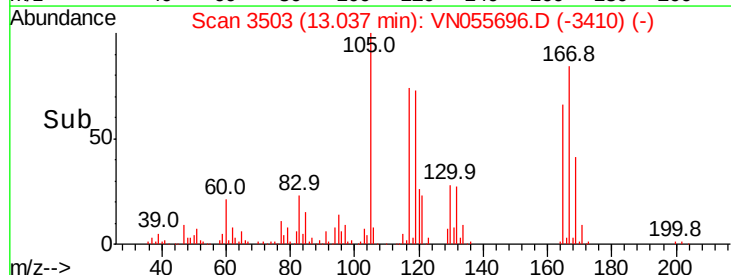
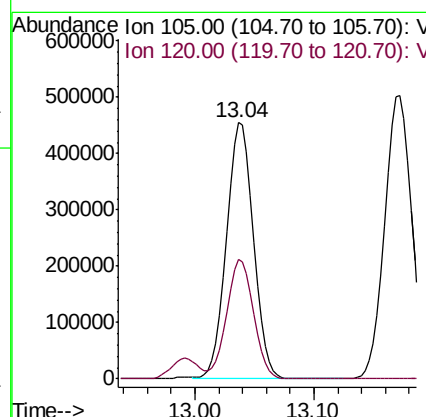
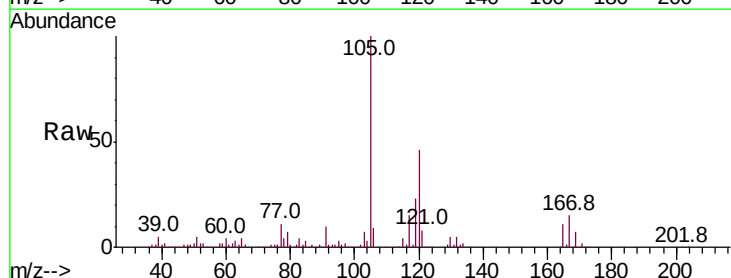
Manual Integrations
 APPROVED

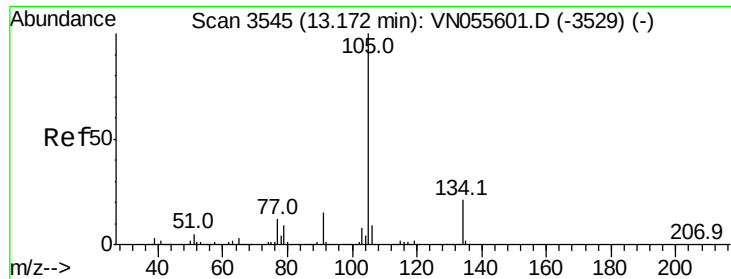
MMDadoda
 5/22/2019 4:11:07 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 62.053 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	713696		
120	46.3		23.1	69.2





#85

sec-Butylbenzene

Concen: 62.541 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 801955

Ion Ratio Lower Upper

105 100

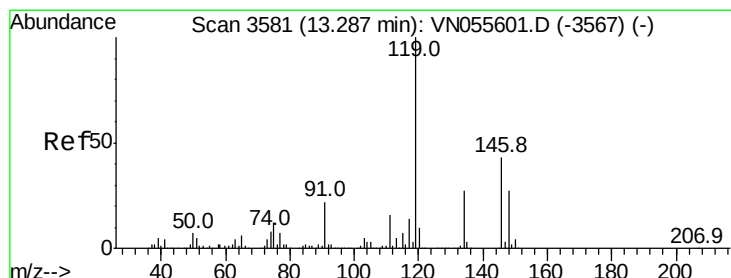
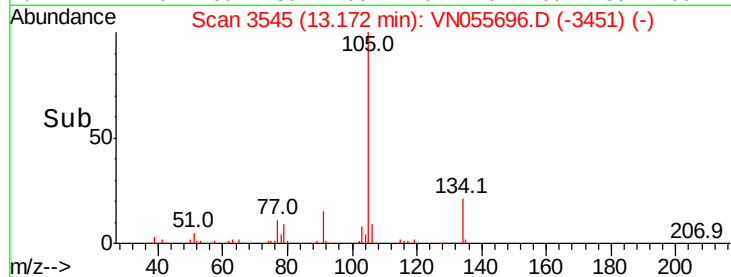
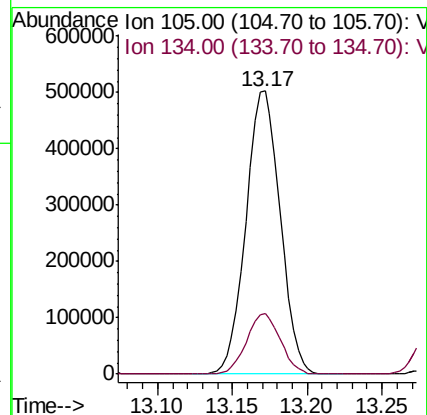
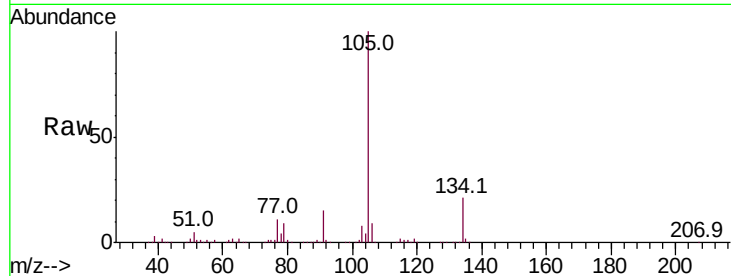
134 21.1 10.3 30.9

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:07 PM



#86

p-Isopropyltoluene

Concen: 62.516 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055696.D

Acq: 21 May 2019 9:27

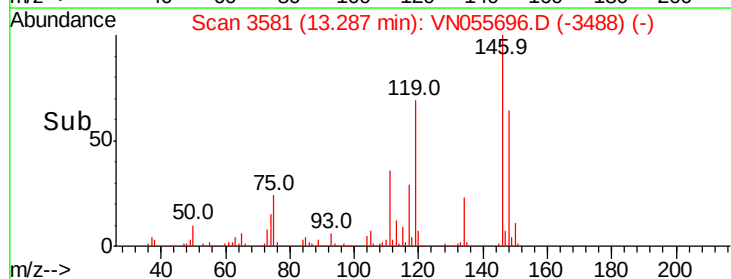
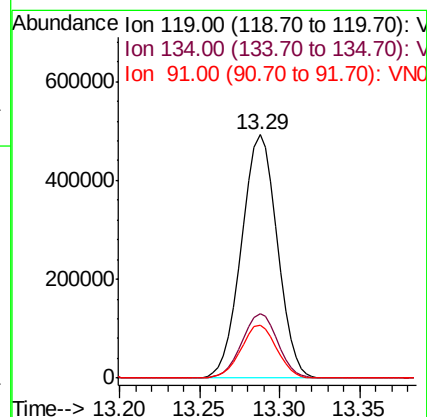
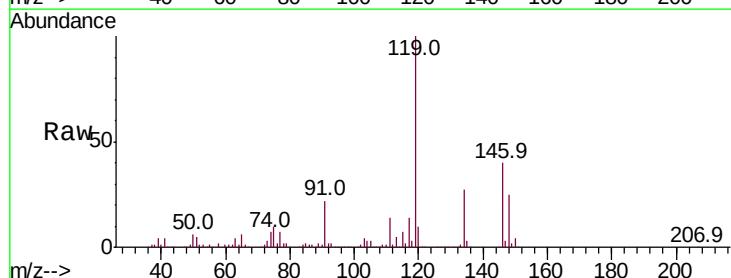
Tgt Ion:119 Resp: 747552

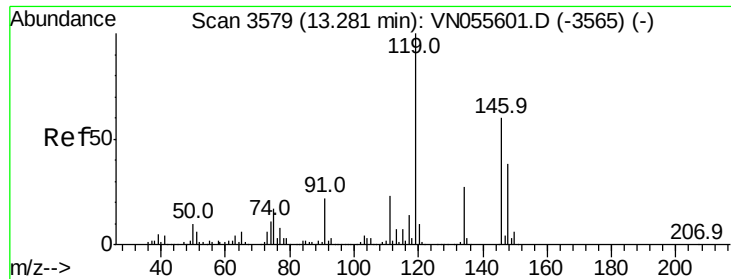
Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

91 21.6 11.0 33.0





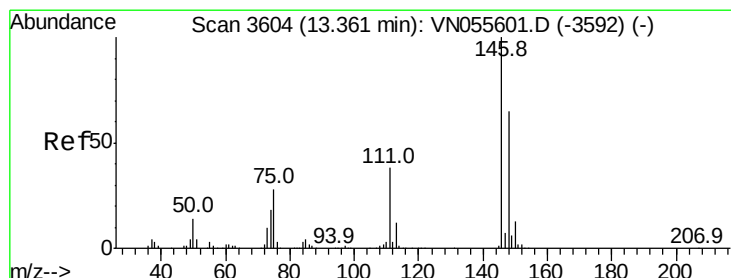
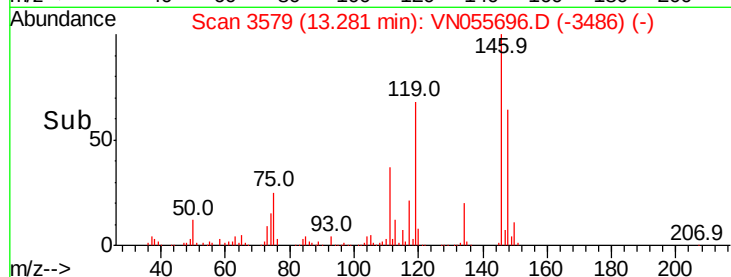
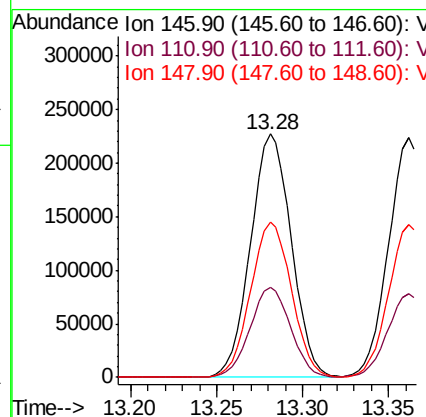
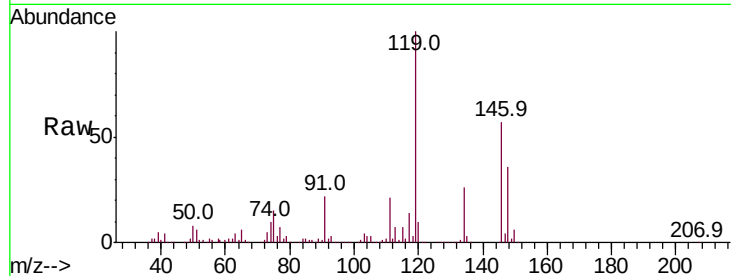
#87
 1,3-Dichlorobenzene
 Concen: 56.961 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	374188		
111	36.8	18.9	56.9	
148	64.0	31.9	95.9	

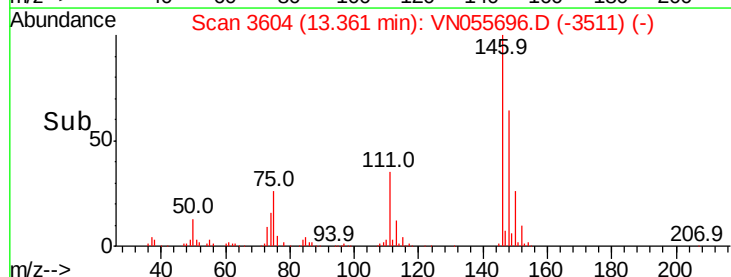
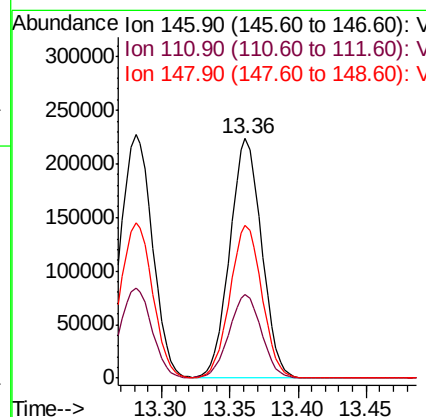
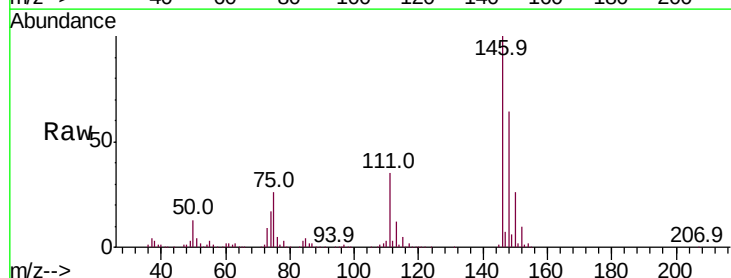
Manual Integrations
 APPROVED

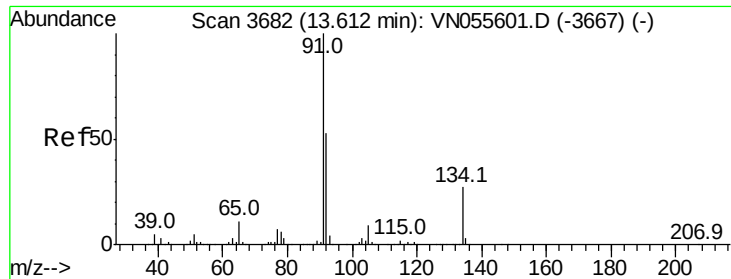
MMDadoda
 5/22/2019 4:11:07 PM



#88
 1,4-Dichlorobenzene
 Concen: 57.922 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	363311		
111	35.3	18.8	56.4	
148	64.2	32.4	97.0	





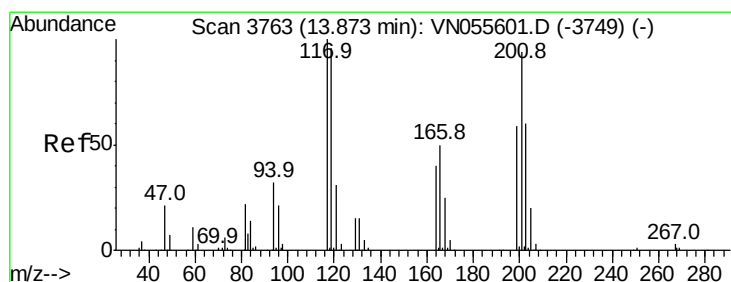
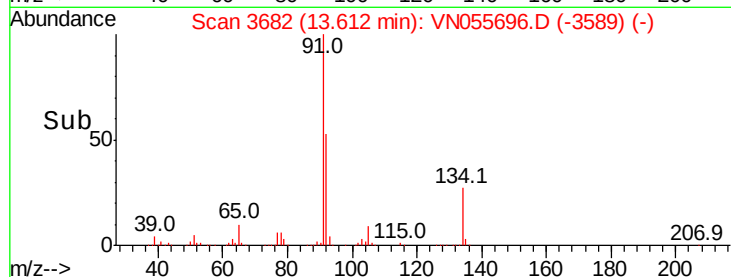
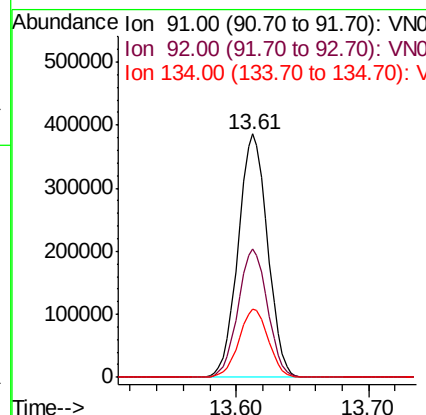
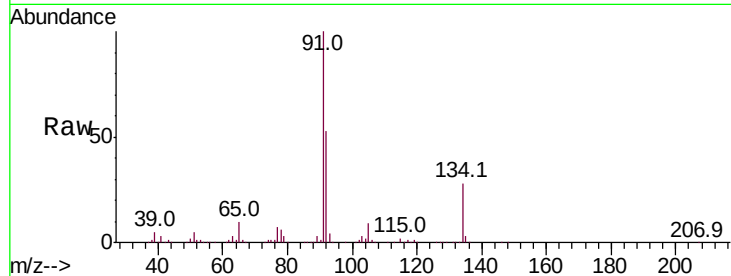
#89
n-Butylbenzene
Concen: 55.906 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100	593495		
92	52.7		26.4	79.0
134	28.1		13.7	41.1

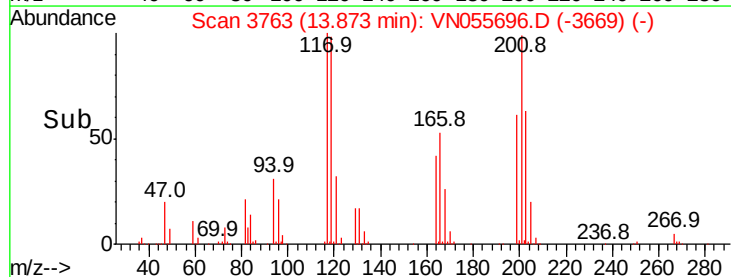
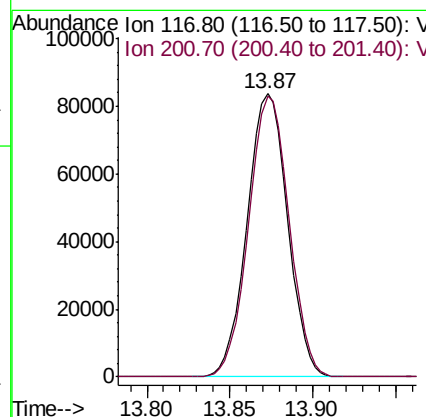
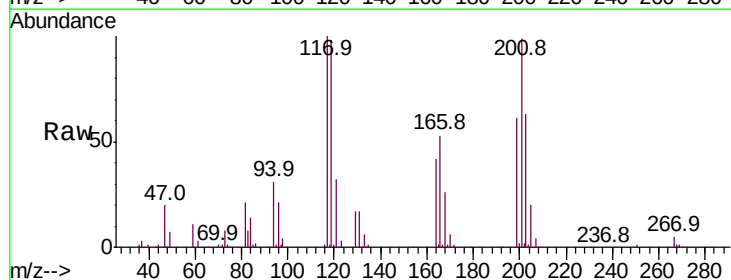
Manual Integrations
APPROVED

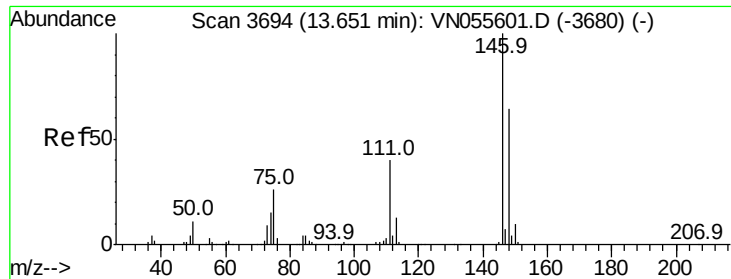
MMDadoda
5/22/2019 4:11:07 PM



#90
Hexachloroethane
Concen: 62.325 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	142167		
201	99.1		47.1	141.3





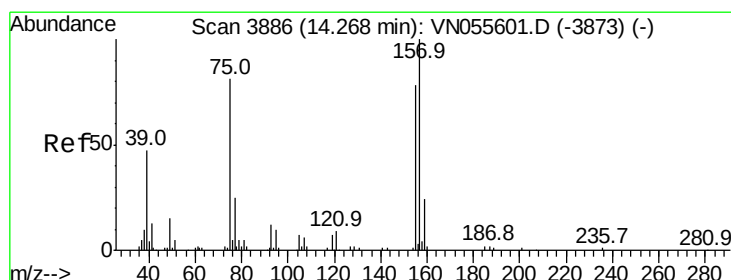
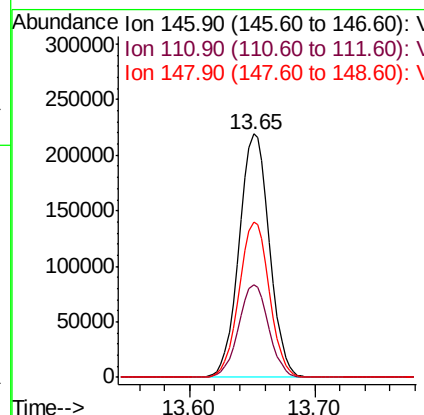
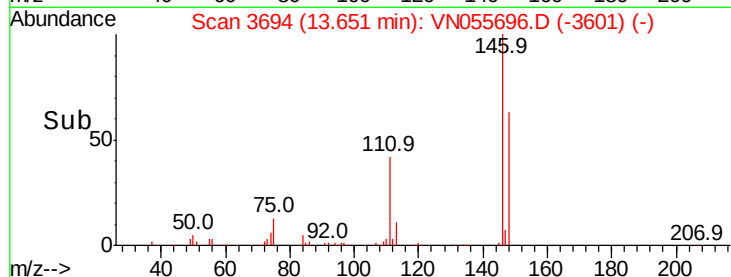
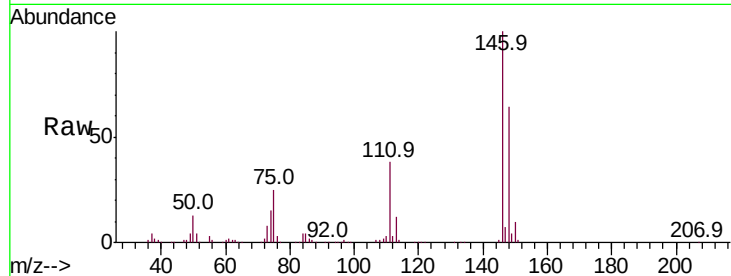
#91
 1,2-Dichlorobenzene
 Concen: 55.973 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	366544		
111	37.9	19.7	59.0	
148	63.9	32.1	96.3	

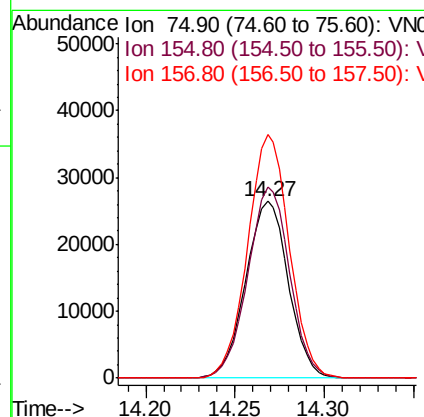
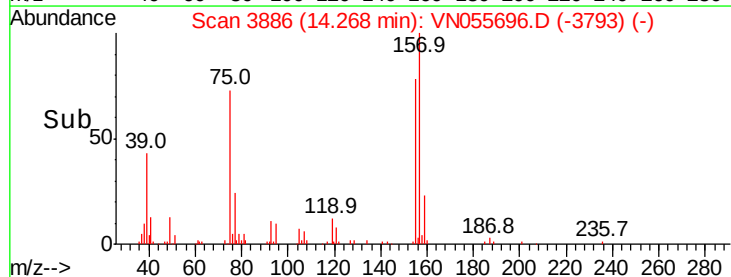
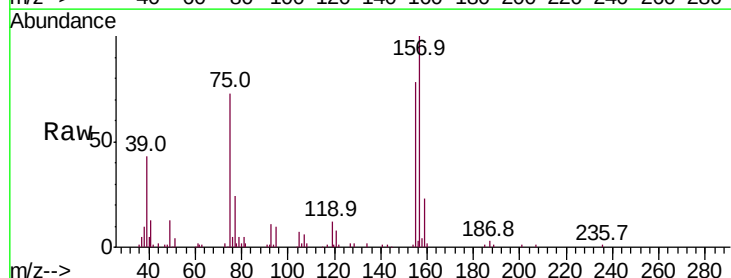
Manual Integrations
 APPROVED

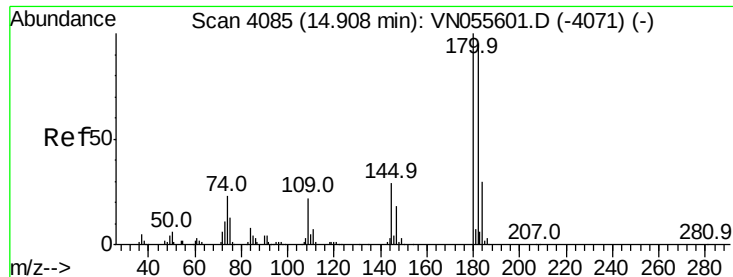
MMDadoda
 5/22/2019 4:11:07 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.197 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	44071		
155	106.0	48.4	145.0	
157	134.3	62.3	186.8	





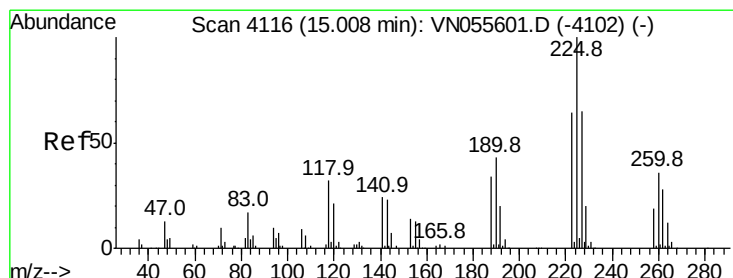
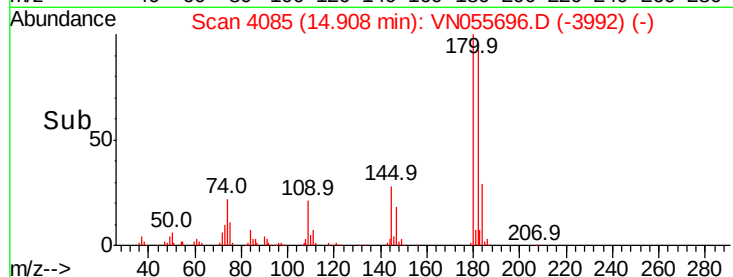
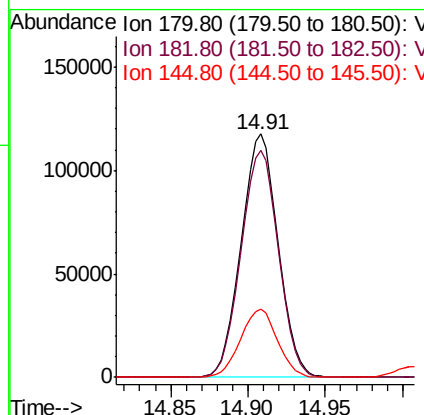
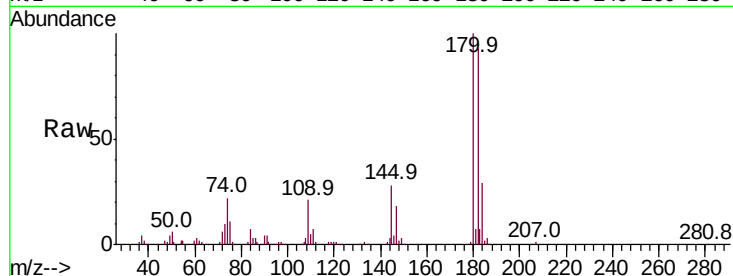
#93
 1,2,4-Trichlorobenzene
 Concen: 58.507 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	195024		
182	94.6	47.9	143.6	
145	28.0	14.3	42.9	

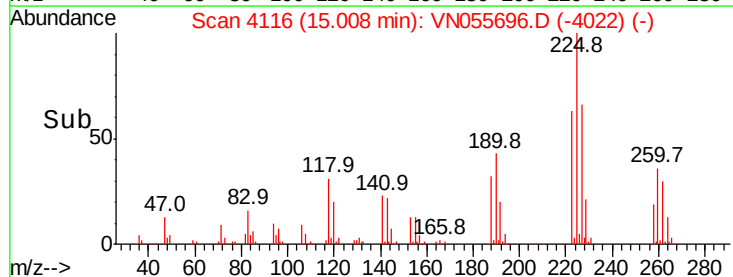
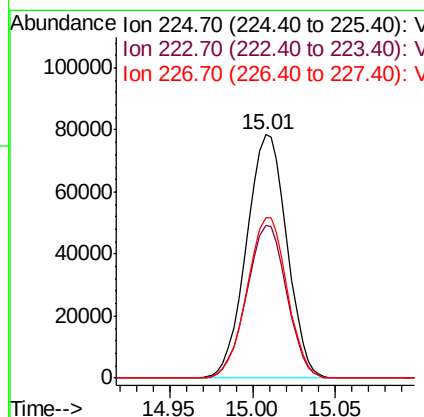
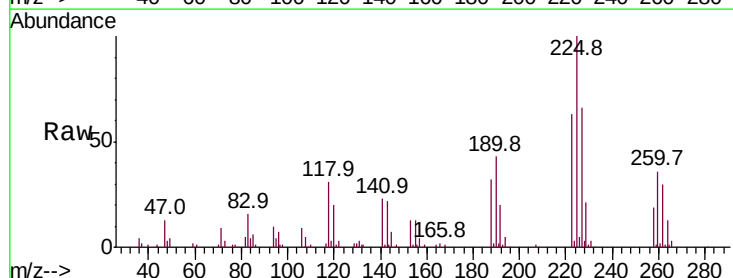
Manual Integrations
 APPROVED

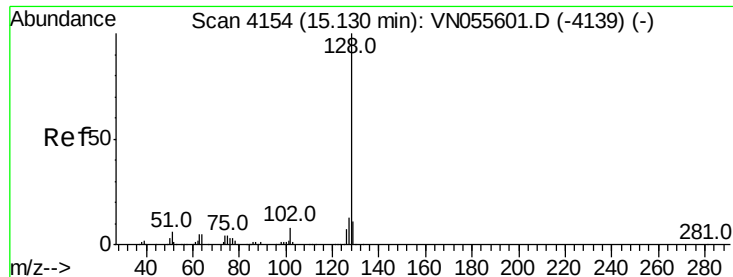
MMDadoda
 5/22/2019 4:11:07 PM



#94
 Hexachlorobutadiene
 Concen: 67.078 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055696.D
 Acq: 21 May 2019 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	132949		
223	62.2	31.6	94.7	
227	65.3	32.4	97.0	





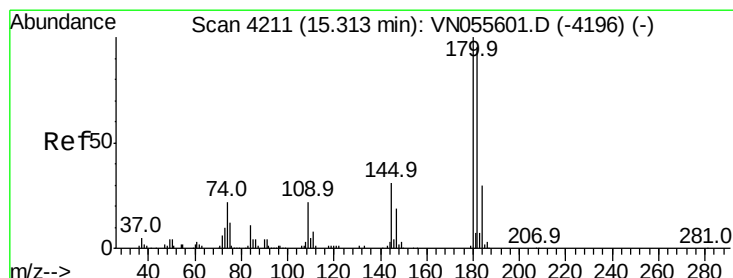
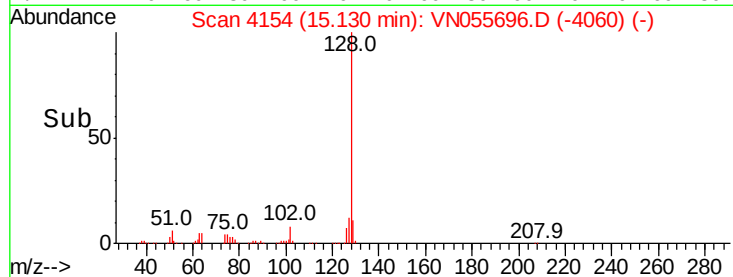
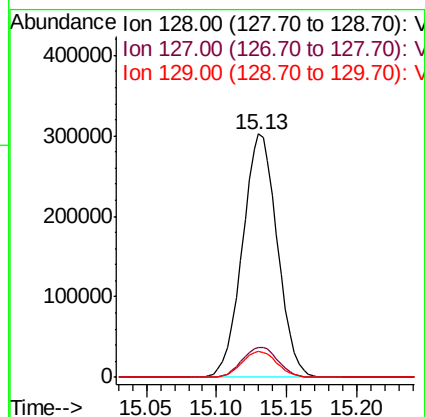
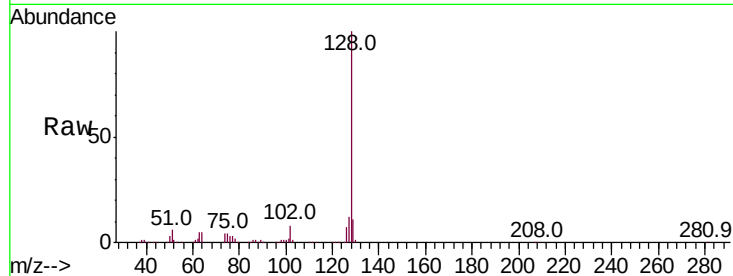
#95
Naphthalene
Concen: 51.863 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:	128	Resp:	522426
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.4
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:07 PM



#96
1,2,3-Trichlorobenzene
Concen: 55.595 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055696.D
Acq: 21 May 2019 9:27

Tgt Ion:	180	Resp:	193765
Ion Ratio	Lower	Upper	
180	100		
182	95.9	47.9	143.6
145	30.1	15.4	46.1

