

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055775.D
 Acq On : 24 May 2019 00:18
 Operator : JC/SP
 Sample : VN0523MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:52:53 AM

Quant Time: May 24 08:02:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	382267	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	546060	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	488851	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	224878	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	189549	48.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.02%	
35) Dibromofluoromethane	7.59	113	173658	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
50) Toluene-d8	10.09	98	664979	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
62) 4-Bromofluorobenzene	12.40	95	224487	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	47133	18.320	ug/l	100
3) Chloromethane	2.06	50	67490	18.723	ug/l	99
4) Vinyl Chloride	2.18	62	69742	18.140	ug/l	100
5) Bromomethane	2.53	94	48334m	20.095	ug/l	
6) Chloroethane	2.68	64	43649	18.857	ug/l	97
7) Trichlorofluoromethane	3.01	101	93290	18.508	ug/l	100
8) Diethyl Ether	3.40	74	41565	18.399	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	59547	18.925	ug/l	97
10) Methyl Iodide	3.94	142	93913	20.415	ug/l	99
11) Tert butyl alcohol	4.82	59	75464	100.047	ug/l	98
12) 1,1-Dichloroethene	3.72	96	62095	19.100	ug/l	96
13) Acrolein	3.60	56	46533	86.157	ug/l	99
14) Allyl chloride	4.31	41	101549	18.221	ug/l	98
15) Acrylonitrile	4.99	53	169271	97.730	ug/l	99
16) Acetone	3.82	43	134775	77.665	ug/l	99
17) Carbon Disulfide	4.04	76	164681	17.829	ug/l	99
18) Methyl Acetate	4.33	43	71983	19.636	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	209609	19.332	ug/l	96
20) Methylene Chloride	4.54	84	72117	19.189	ug/l	96
21) trans-1,2-Dichloroethene	5.03	96	66364	19.001	ug/l	97
22) Diisopropyl ether	5.96	45	205445	18.953	ug/l	97
23) Vinyl Acetate	5.90	43	868679	93.467	ug/l	99
24) 1,1-Dichloroethane	5.84	63	119166	18.881	ug/l	99
25) 2-Butanone	6.84	43	223173	92.085	ug/l	99
26) 2,2-Dichloropropane	6.82	77	76767	14.054	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	78047	19.153	ug/l	97
28) Bromochloromethane	7.19	49	58310	19.405	ug/l	93
29) Tetrahydrofuran	7.22	42	149636	97.498	ug/l	98
30) Chloroform	7.37	83	121773	19.347	ug/l	99
31) Cyclohexane	7.65	56	116859	19.722	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	106789	19.013	ug/l	98
36) 1,1-Dichloropropene	7.79	75	89008	18.704	ug/l	99
37) Ethyl Acetate	6.93	43	90607	19.700	ug/l	100
38) Carbon Tetrachloride	7.77	117	96338	19.435	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055775.D
 Acq On : 24 May 2019 00:18
 Operator : JC/SP
 Sample : VN0523MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0523MBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:52:53 AM

Quant Time: May 24 08:02:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	117993	20.023	ug/l	97
40) Benzene	8.04	78	283277	19.752	ug/l	100
41) Methacrylonitrile	7.18	41	42473	18.279	ug/l	95
42) 1,2-Dichloroethane	8.12	62	90627	19.338	ug/l	99
43) Isopropyl Acetate	8.17	43	149505	19.347	ug/l	100
44) Trichloroethene	8.83	130	84045	21.021	ug/l	99
45) 1,2-Dichloropropane	9.12	63	73943	19.789	ug/l	98
46) Dibromomethane	9.21	93	49330	20.130	ug/l	96
47) Bromodichloromethane	9.40	83	96870	19.278	ug/l	100
48) Methyl methacrylate	9.20	41	71703	20.133	ug/l	98
49) 1,4-Dioxane	9.20	88	30367	410.310	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	454935	99.681	ug/l	98
52) Toluene	10.16	92	181457	20.117	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	99533	18.557	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	109868	18.490	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	74811	20.703	ug/l	98
56) Ethyl methacrylate	10.43	69	110983	19.873	ug/l	99
57) 1,3-Dichloropropane	10.71	76	116328	19.805	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	208367	97.633	ug/l	98
59) 2-Hexanone	10.75	43	314630	97.178	ug/l	98
60) Dibromochloromethane	10.90	129	82378	19.569	ug/l	97
61) 1,2-Dibromoethane	11.00	107	75888	20.247	ug/l	97
64) Tetrachloroethene	10.63	164	86395	20.954	ug/l	99
65) Chlorobenzene	11.43	112	197524	20.184	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	76300	19.549	ug/l	99
67) Ethyl Benzene	11.51	91	348061	19.833	ug/l	99
68) m/p-Xylenes	11.62	106	268372	40.451	ug/l	98
69) o-Xylene	11.95	106	132786	20.173	ug/l	100
70) Styrene	11.96	104	219591	20.600	ug/l	100
71) Bromoform	12.13	173	66887	20.091	ug/l #	100
73) Isopropylbenzene	12.25	105	360245	20.972	ug/l	99
74) N-amyl acetate	12.07	43	123857	18.923	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	101206	19.331	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	86512m	20.483	ug/l	
77) Bromobenzene	12.53	156	321403	66.977	ug/l #	17
78) n-propylbenzene	12.59	91	380629	19.475	ug/l	98
79) 2-Chlorotoluene	12.67	91	222319	19.566	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	295251	20.413	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	28172	16.856	ug/l	98
82) 4-Chlorotoluene	12.77	91	213422	18.576	ug/l	99
83) tert-Butylbenzene	12.99	119	254848	20.086	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	289653	20.150	ug/l	99
85) sec-Butylbenzene	13.17	105	320481	19.741	ug/l	98
86) p-Isopropyltoluene	13.29	119	296219	18.968	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	146448	19.274	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	140157	19.401	ug/l	100
89) n-Butylbenzene	13.61	91	225728	18.864	ug/l	99
90) Hexachloroethane	13.87	117	55631	18.715	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	145383	19.178	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	18327	18.393	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052319\
Data File : VN055775.D
Acq On : 24 May 2019 00:18
Operator : JC/SP
Sample : VN0523MBSD01
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM

Quant Time: May 24 08:02:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	79219	20.478	ug/l	99
94) Hexachlorobutadiene	15.01	225	57477	20.465	ug/l	99
95) Naphthalene	15.13	128	265046	25.479	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	84868	21.178	ug/l	98

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

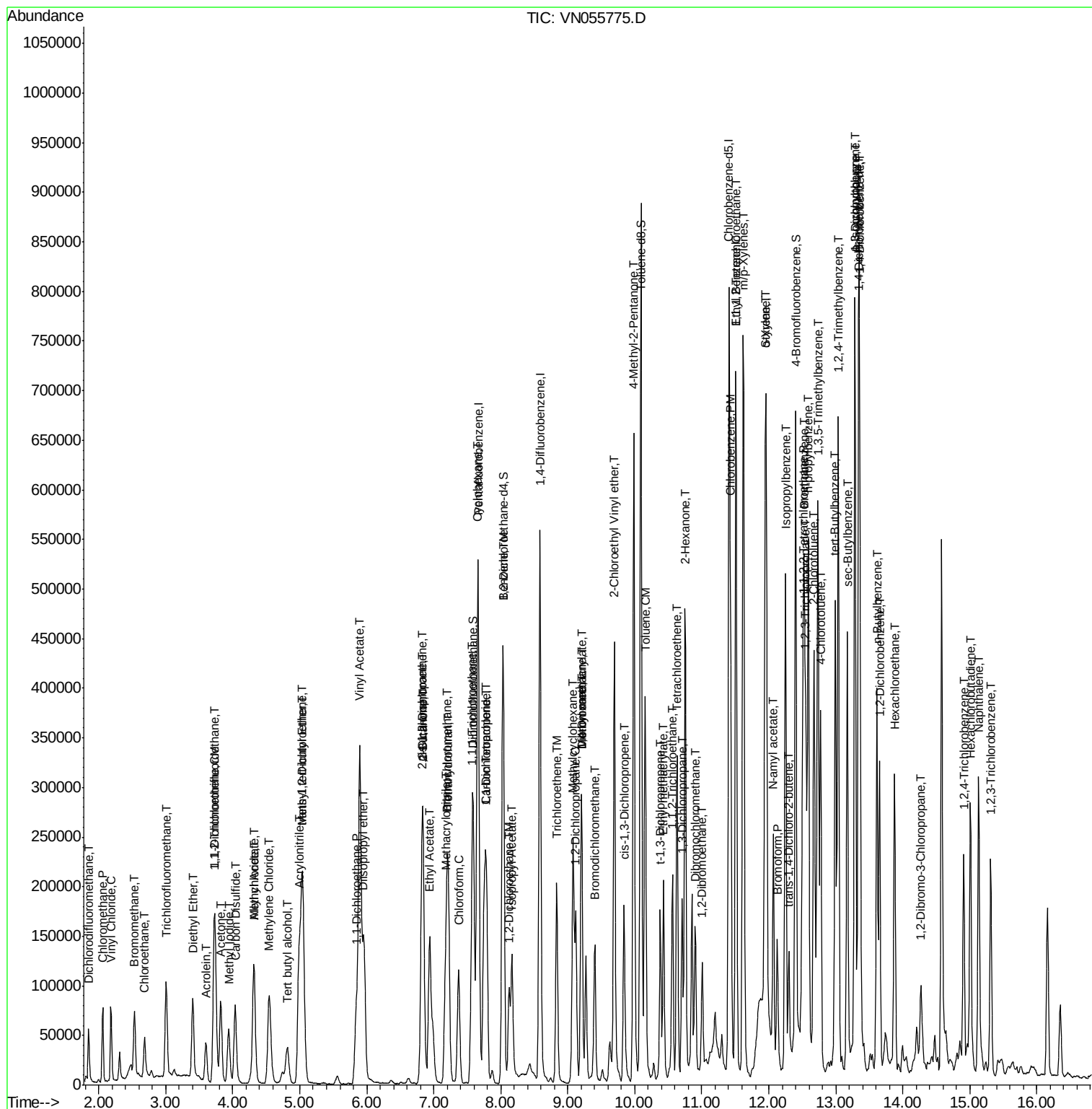
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055775.D
 Acq On : 24 May 2019 00:18
 Operator : JC/SP
 Sample : VN0523MBS01
 Misc : 5.00µL/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 38 Sample Multiplier: 1

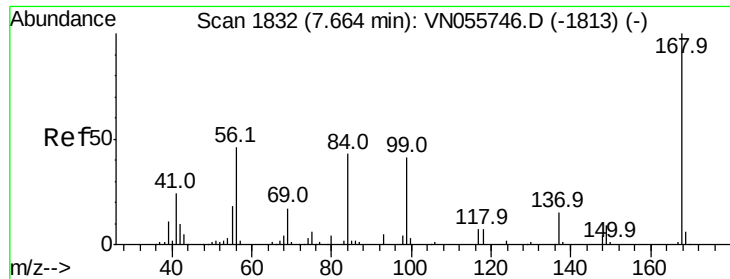
Instrument :
 MSVOA_N
 Client Sample ID :
 VN0523MBS01

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:52:53 AM

Quant Time: May 24 08:02:15 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 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: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion:168 Resp: 382267

Ion Ratio Lower Upper

168 100

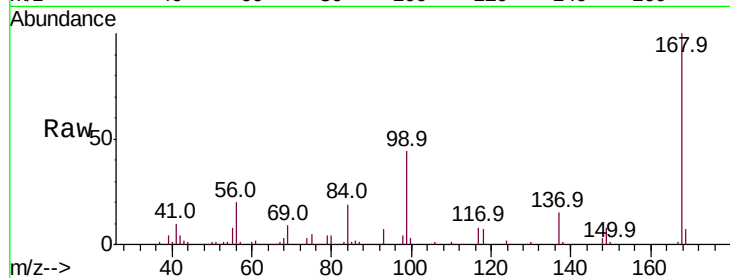
99 43.7 37.2 55.8

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:52:53 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

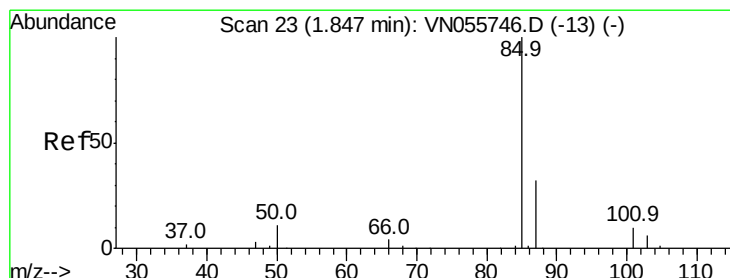
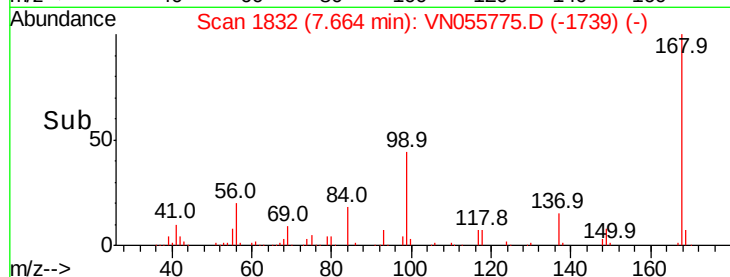
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.320 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055775.D

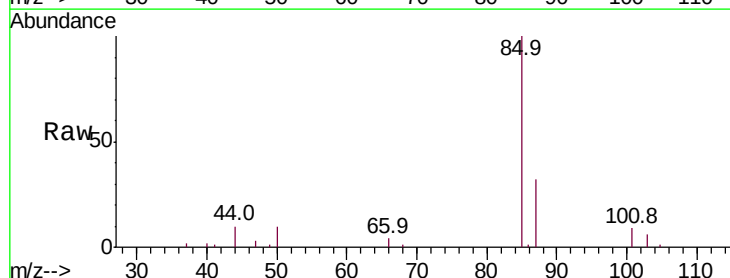
Acq: 24 May 2019 00:18

Tgt Ion: 85 Resp: 47133

Ion Ratio Lower Upper

85 100

87 32.1 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

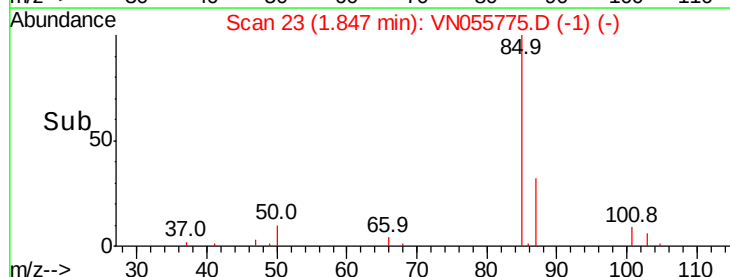
30000

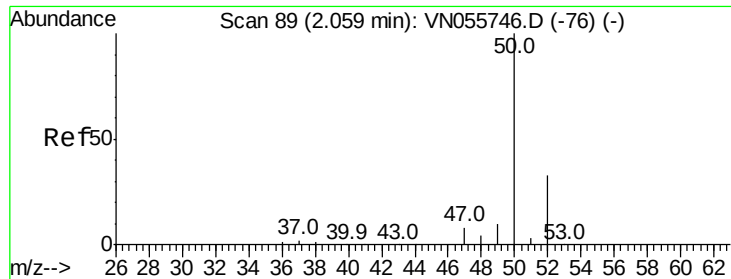
20000

10000

0

Time-->





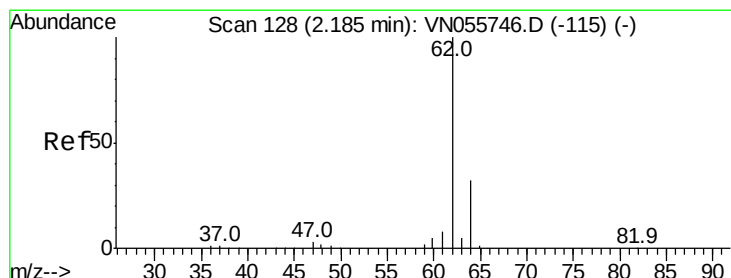
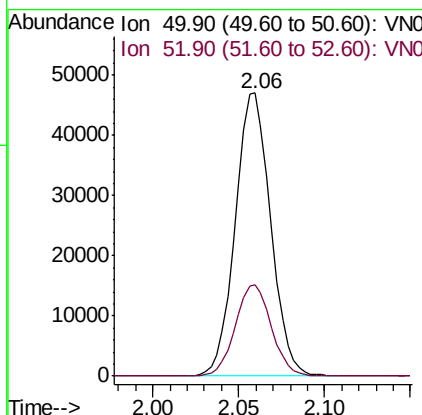
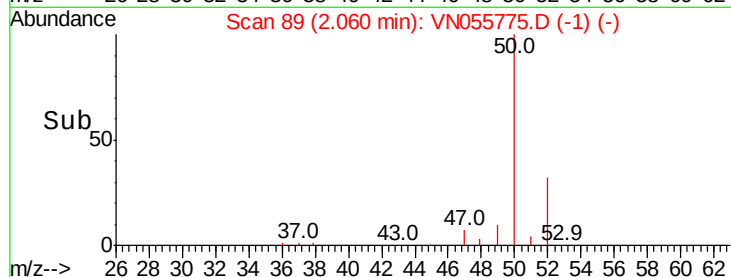
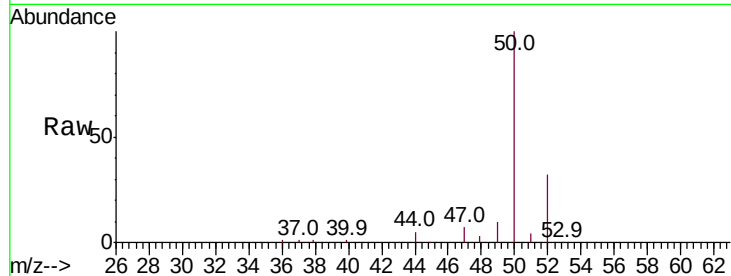
#3
Chloromethane
Concen: 18.723 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion: 50 Resp: 67490
Ion Ratio Lower Upper
50 100
52 32.5 26.6 40.0

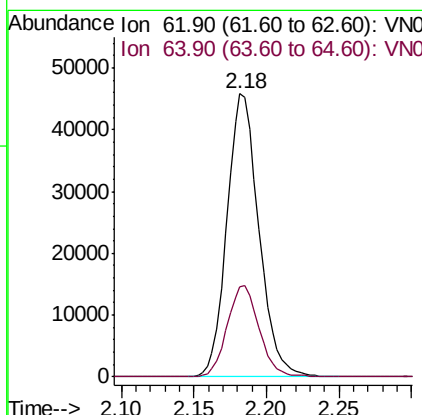
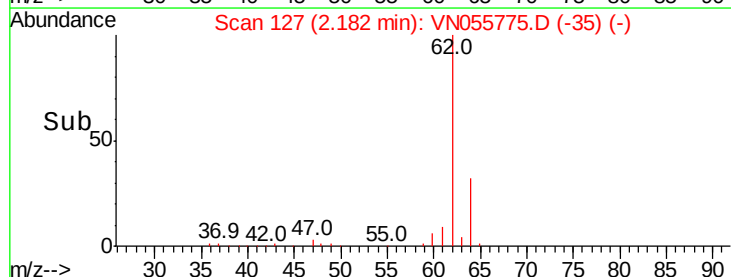
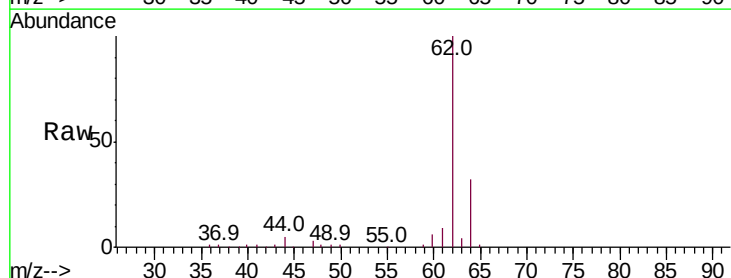
Manual Integrations
APPROVED

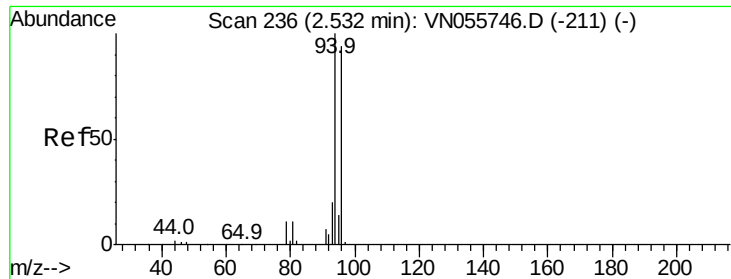
MMDadoda
5/24/2019 9:52:53 AM



#4
Vinyl Chloride
Concen: 18.140 ug/l
RT: 2.18 min Scan# 127
Delta R.T. -0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion: 62 Resp: 69742
Ion Ratio Lower Upper
62 100
64 31.8 25.6 38.4





#5

Bromomethane

Concen: 20.095 ug/l m

RT: 2.53 min Scan# 236

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion: 94 Resp: 48334

Ion Ratio Lower Upper

94 100

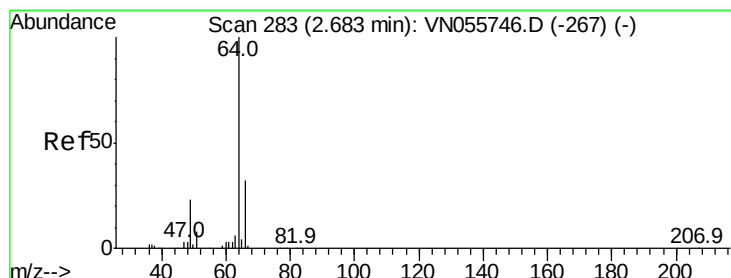
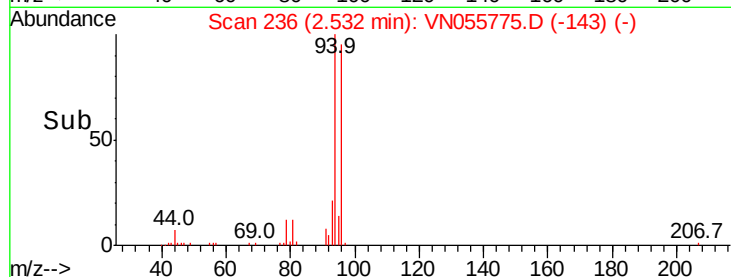
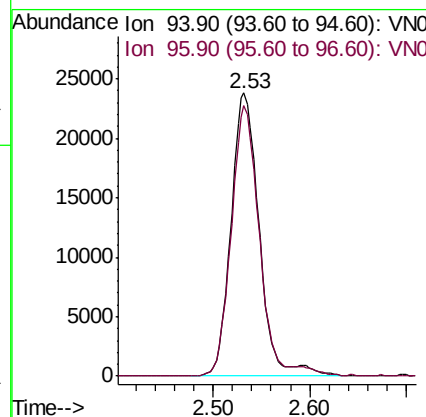
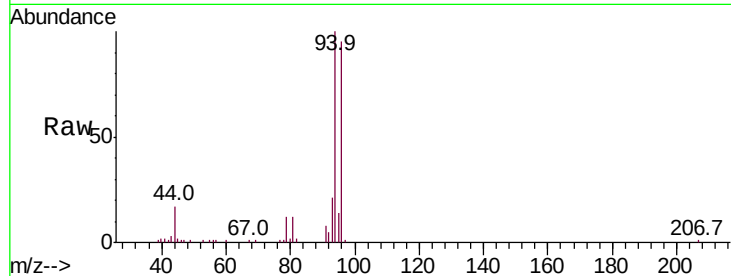
96 95.4 75.5 113.3

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:52:53 AM



#6

Chloroethane

Concen: 18.857 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN055775.D

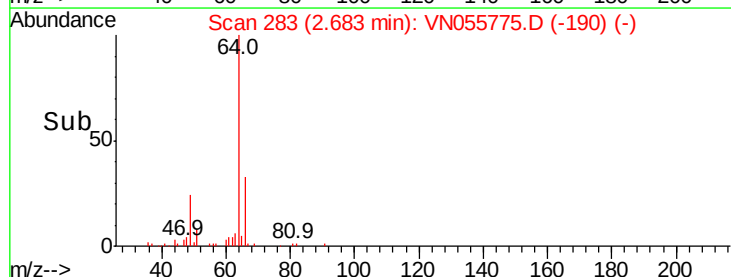
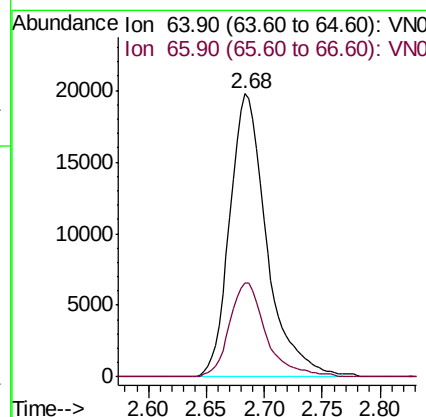
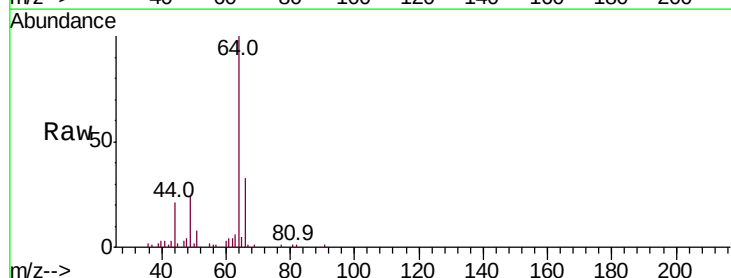
Acq: 24 May 2019 00:18

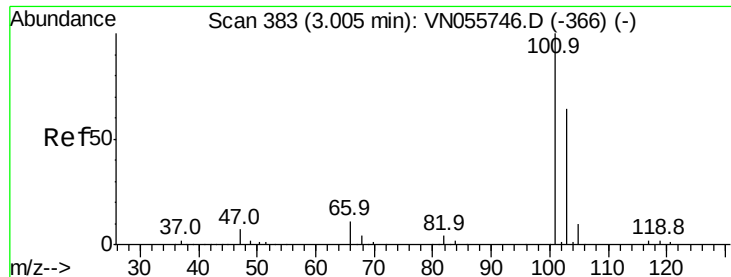
Tgt Ion: 64 Resp: 43649

Ion Ratio Lower Upper

64 100

66 33.4 25.4 38.0





#7

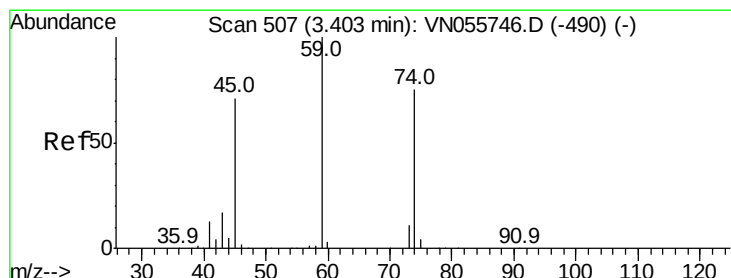
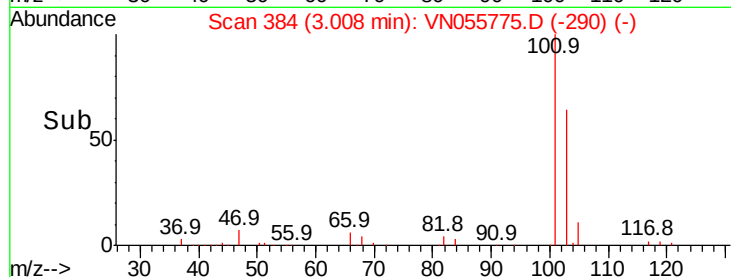
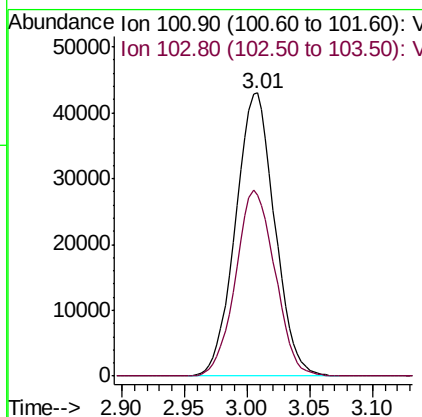
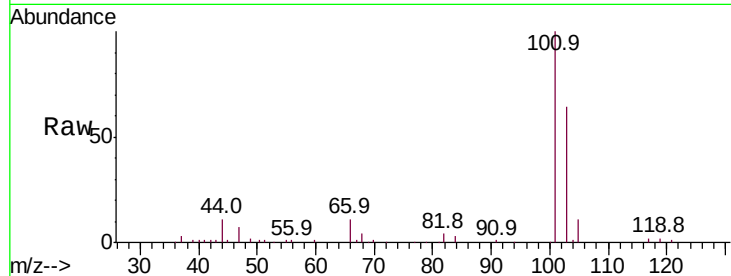
Trichlorofluoromethane
 Concen: 18.508 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.2	76.8

Manual Integrations
 APPROVED

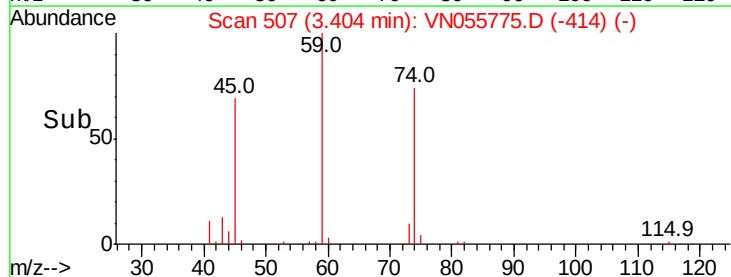
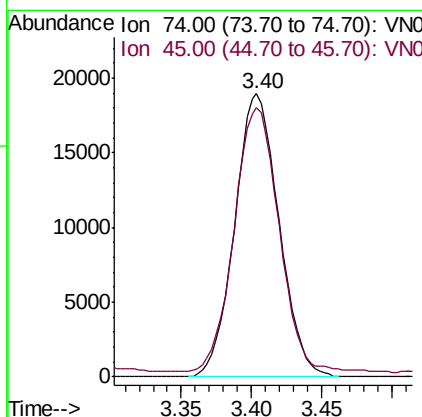
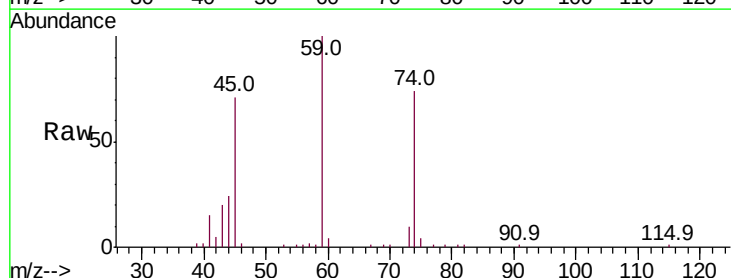
MMDadoda
 5/24/2019 9:52:53 AM

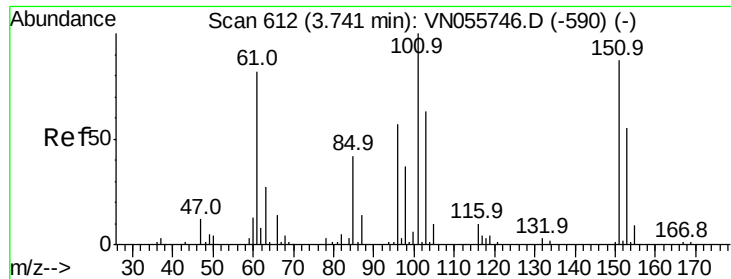


#8

Diethyl Ether
 Concen: 18.399 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.2	48.6	145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.925 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

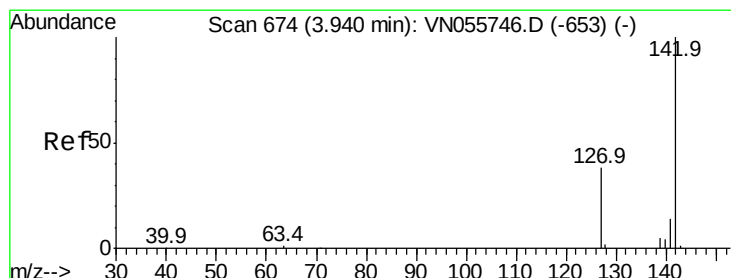
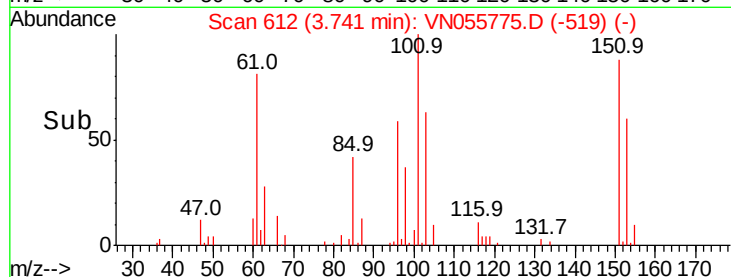
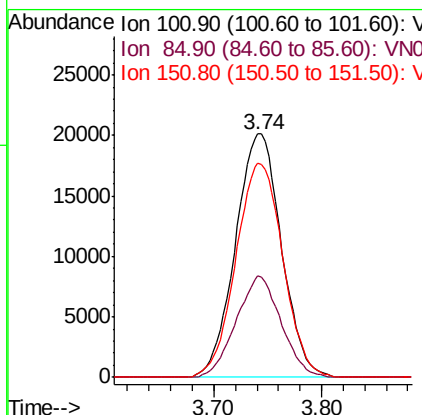
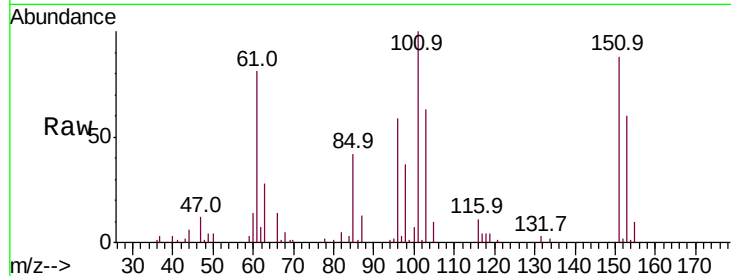
ClientSampleId :

VN0523MBSD01

Tot Ion:	101	Resp:	59547
Ion Ratio	Lower	Upper	
101	100		
85	40.6	33.4	50.2
151	90.0	69.4	104.2

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



#10

Methyl Iodide

Concen: 20.415 ug/l

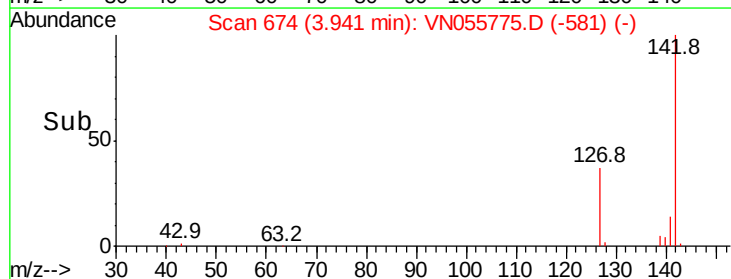
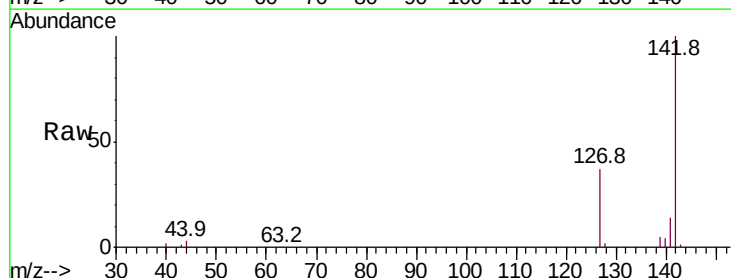
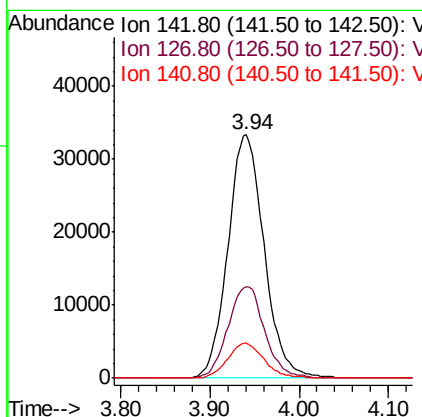
RT: 3.94 min Scan# 674

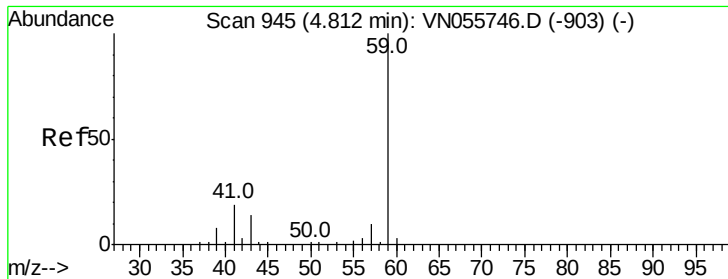
Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion:	142	Resp:	93913
Ion Ratio	Lower	Upper	
142	100		
127	38.0	31.0	46.4
141	14.3	11.4	17.0





#11

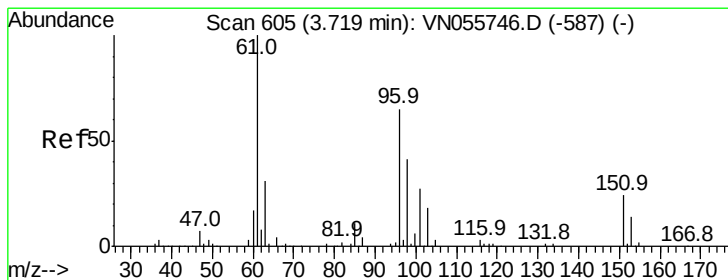
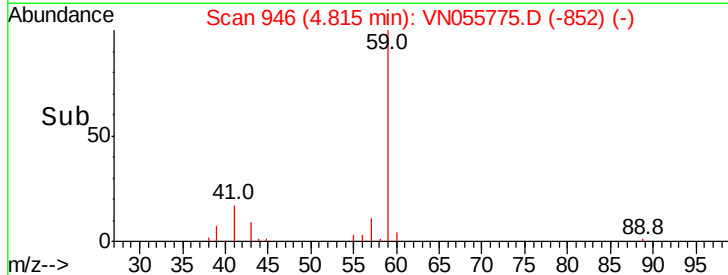
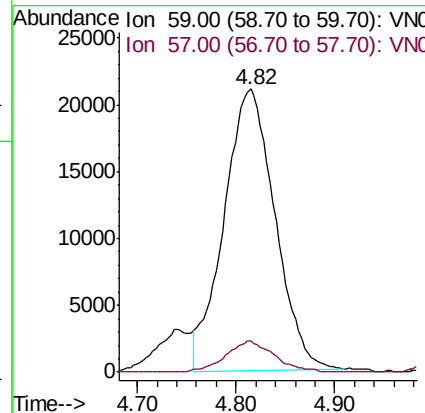
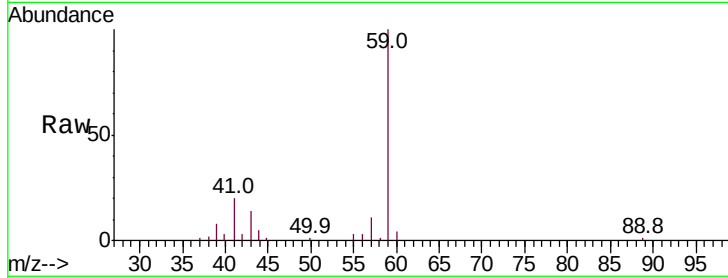
Tert butyl alcohol
 Concen: 100.047 ug/l
 RT: 4.82 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	7.8	11.6

Manual Integrations
 APPROVED

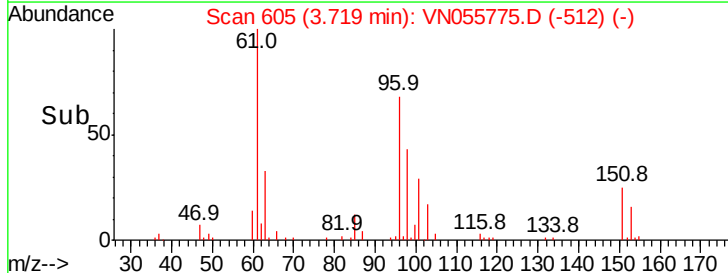
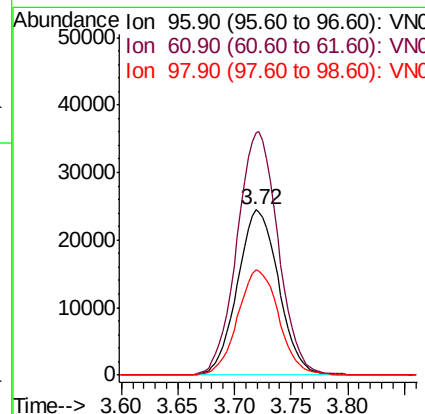
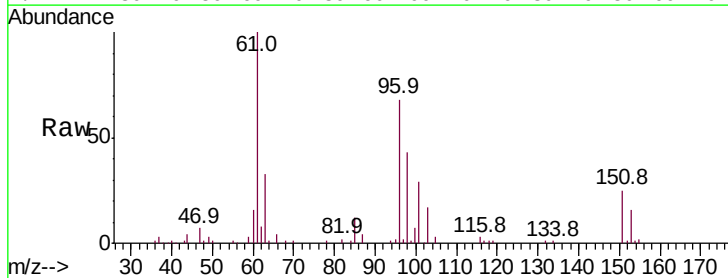
MMDadoda
 5/24/2019 9:52:53 AM

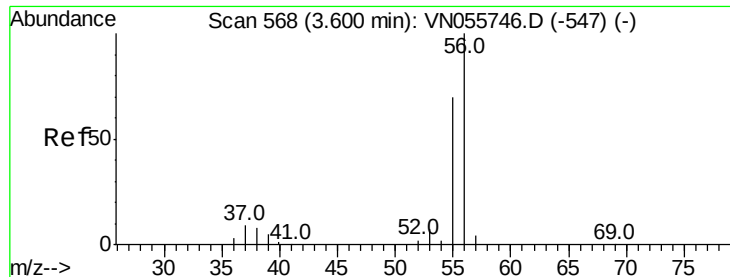


#12

1,1-Dichloroethene
 Concen: 19.100 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.2	123.2	184.8
98	63.6	50.4	75.6





#13

Acrolein

Concen: 86.157 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion: 56 Resp: 46533

Ion Ratio Lower Upper

56 100

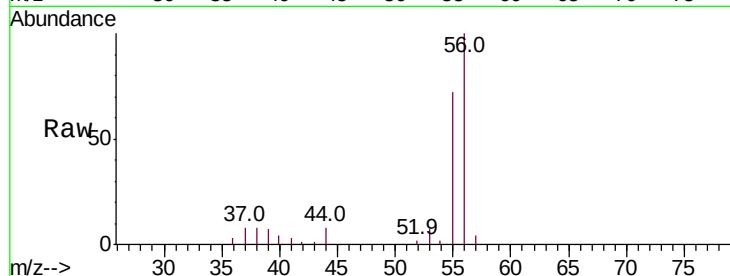
55 68.4 55.4 83.2

Manual Integrations

APPROVED

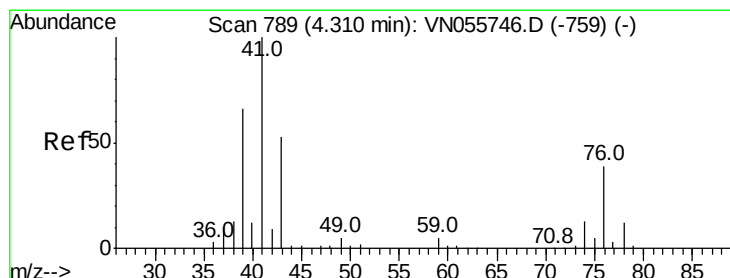
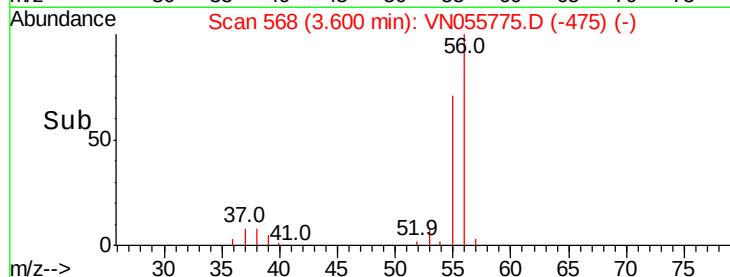
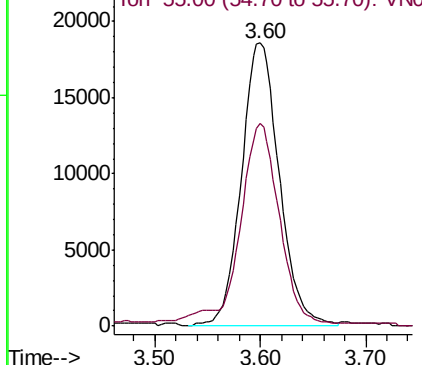
MMDadoda

5/24/2019 9:52:53 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.221 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

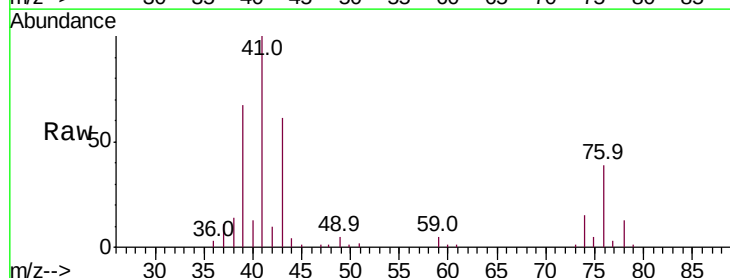
Tgt Ion: 41 Resp: 101549

Ion Ratio Lower Upper

41 100

39 61.1 50.0 75.0

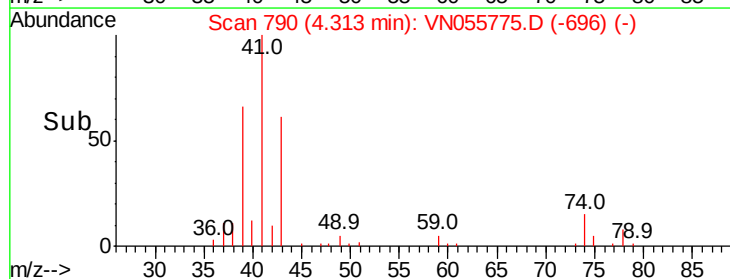
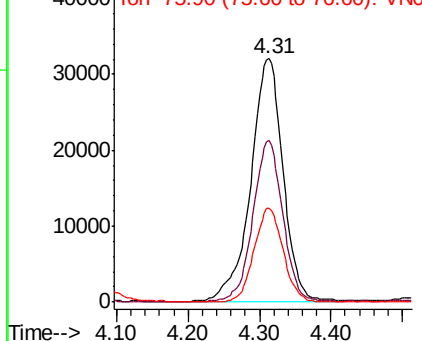
76 34.2 28.2 42.2

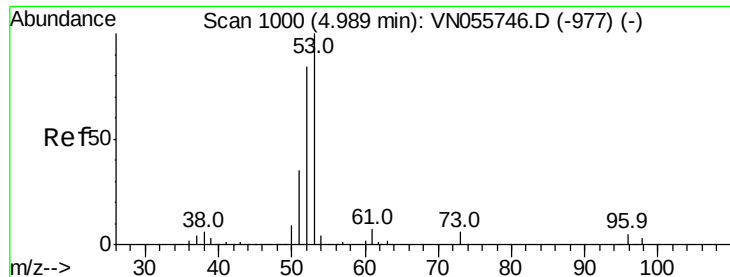


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





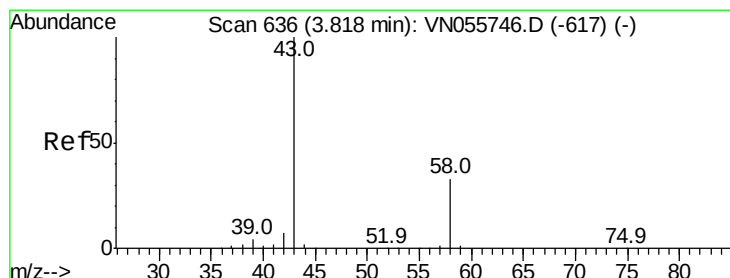
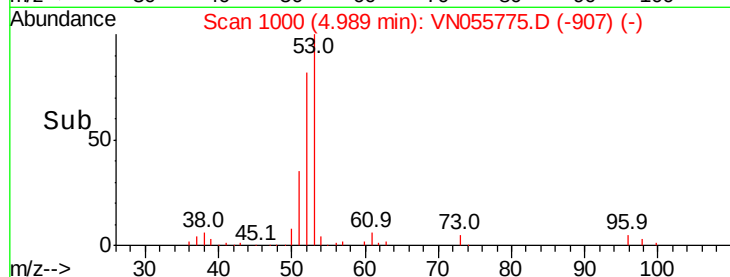
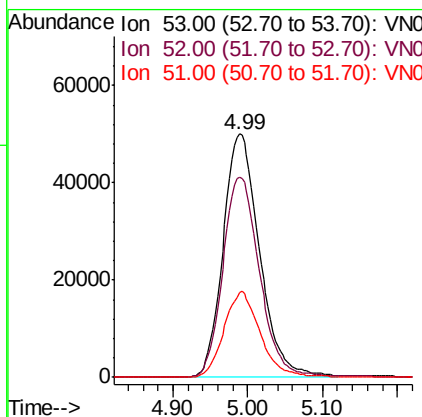
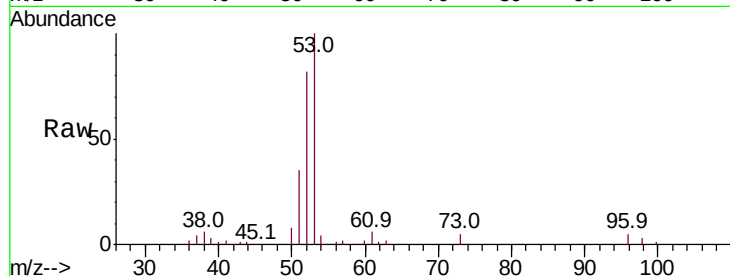
#15
 Acrylonitrile
 Concen: 97.730 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.2	65.8	98.8
51	35.3	28.2	42.4

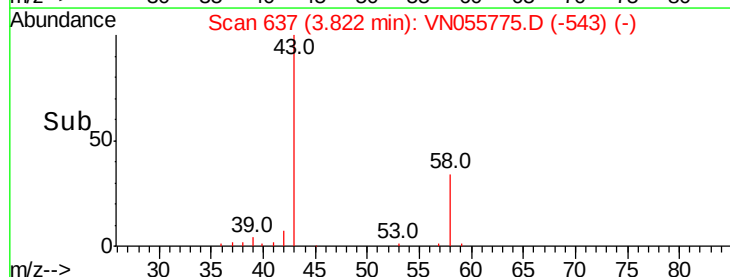
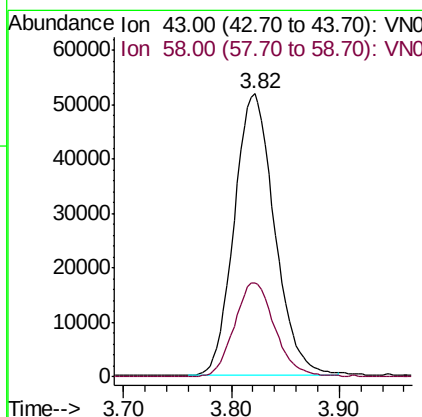
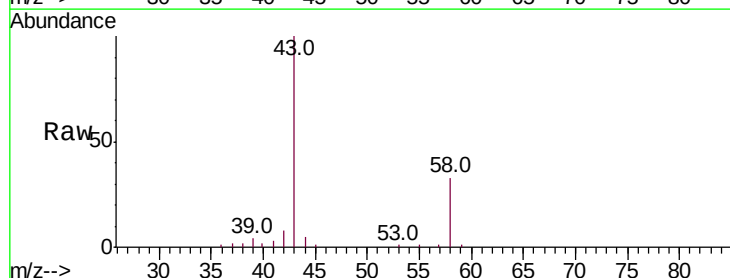
Manual Integrations
 APPROVED

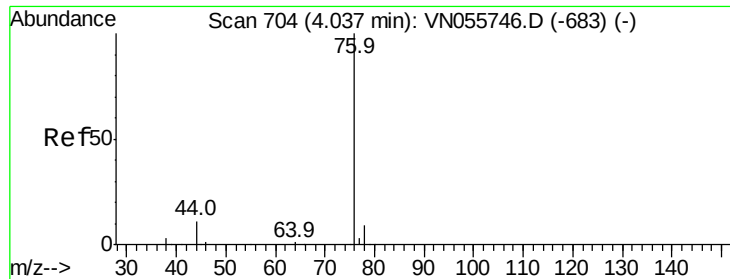
MMDadoda
 5/24/2019 9:52:53 AM



#16
 Acetone
 Concen: 77.665 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.6	26.6	39.8





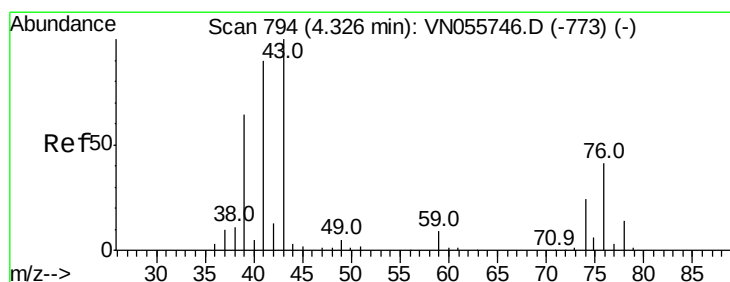
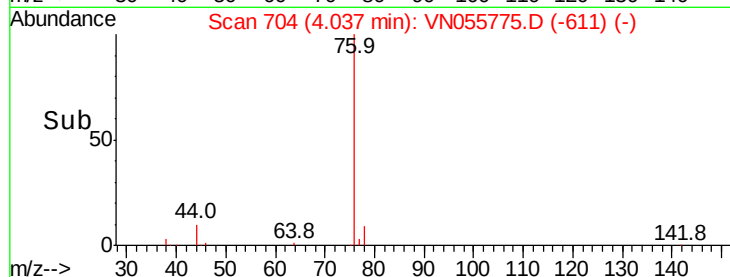
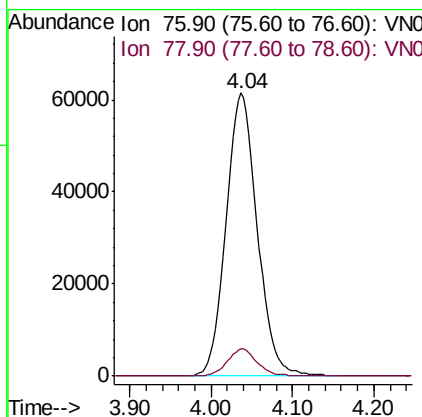
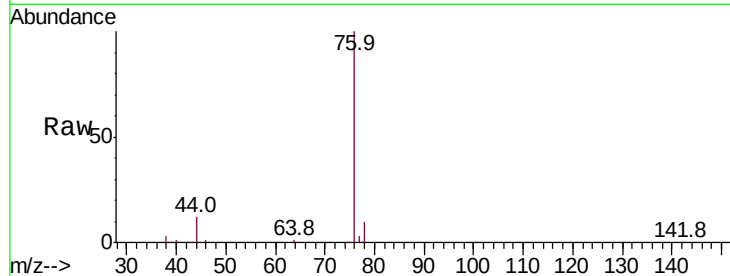
#17
Carbon Disulfide
Concen: 17.829 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.4	11.2

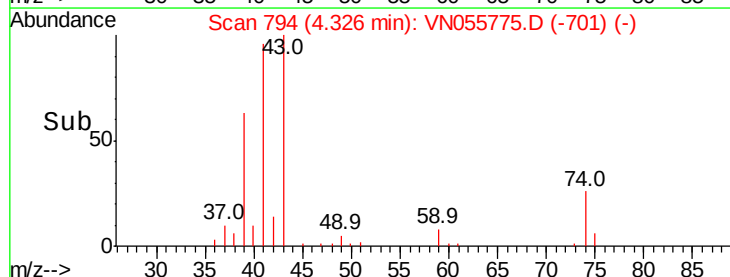
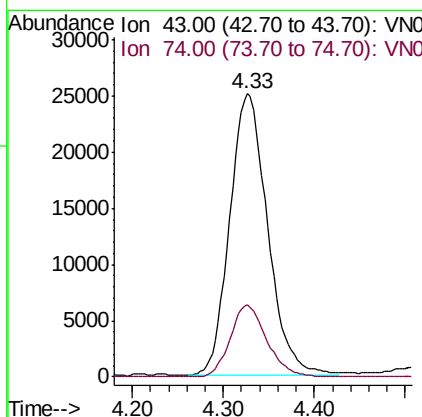
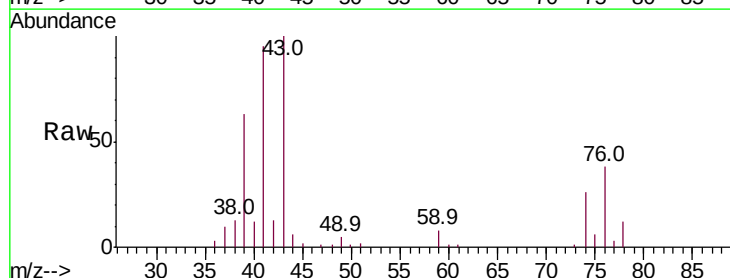
Manual Integrations
APPROVED

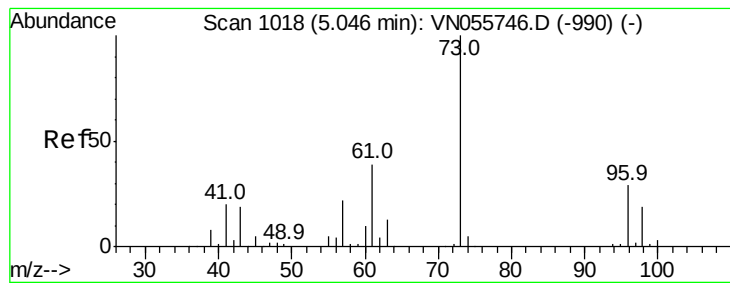
MMDadoda
5/24/2019 9:52:53 AM



#18
Methyl Acetate
Concen: 19.636 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.7	19.3	28.9





#19

Methyl tert-butyl Ether

Concen: 19.332 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion: 73 Resp: 209609

Ion Ratio Lower Upper

73 100

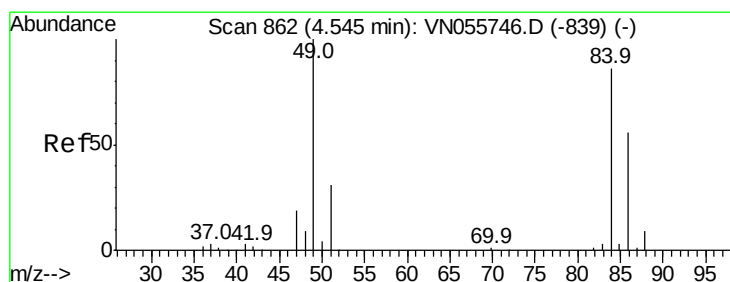
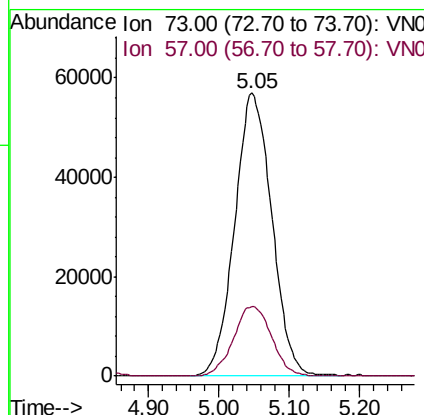
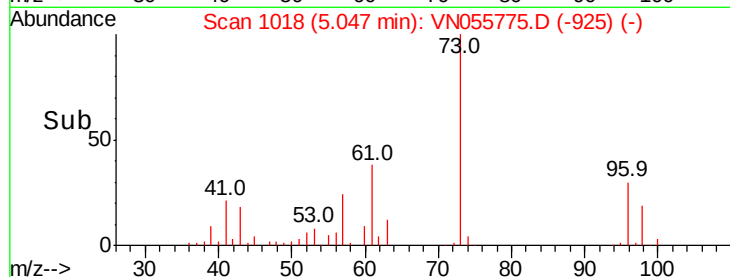
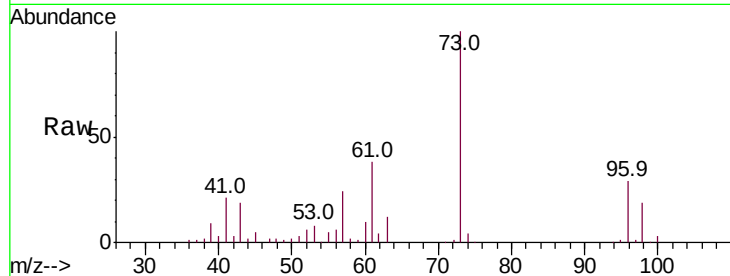
57 24.4 17.8 26.8

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:52:53 AM



#20

Methylene Chloride

Concen: 19.189 ug/l

RT: 4.54 min Scan# 861

Delta R.T. -0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion: 84 Resp: 72117

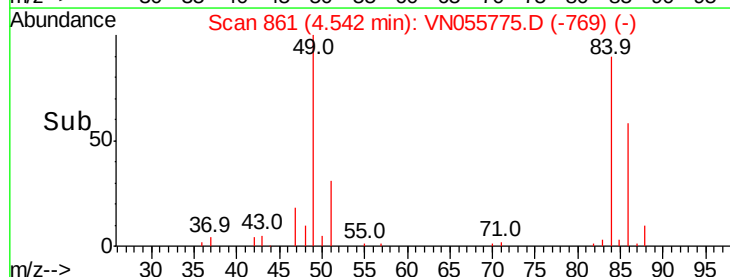
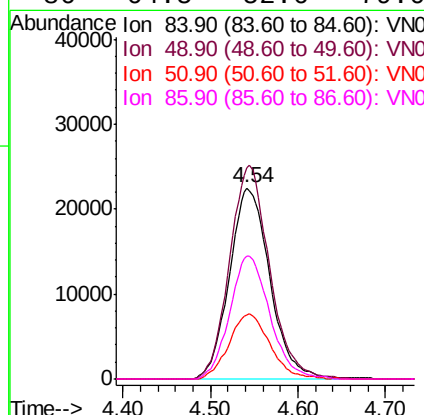
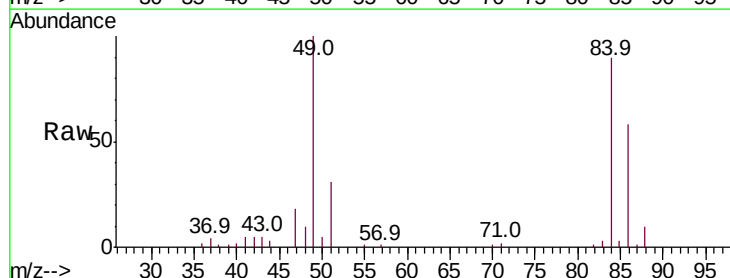
Ion Ratio Lower Upper

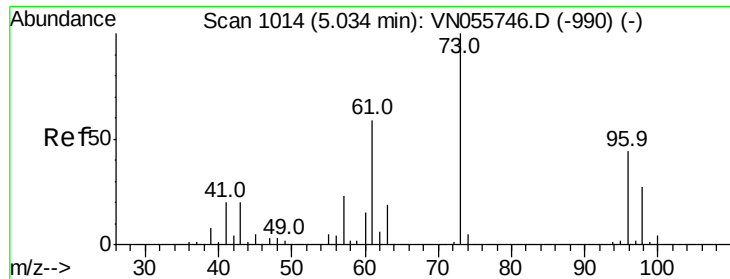
84 100

49 110.7 93.5 140.3

51 33.8 28.6 43.0

86 64.5 52.6 79.0





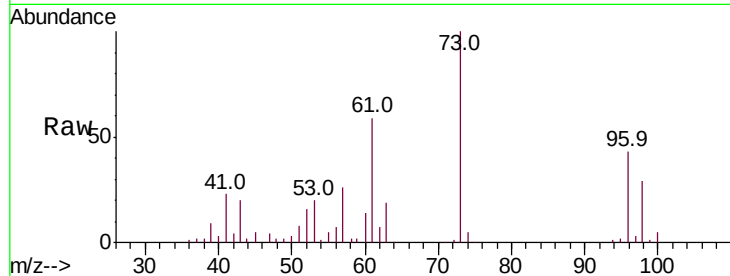
#21
trans-1,2-Dichloroethene
Concen: 19.001 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.2	107.8	161.8
98	66.8	49.8	74.8

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM

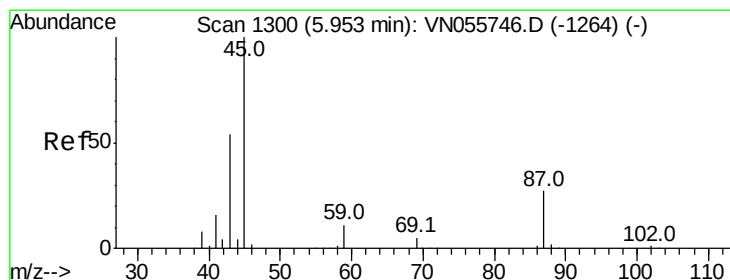
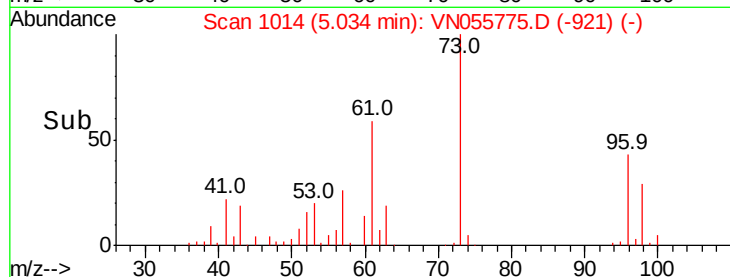
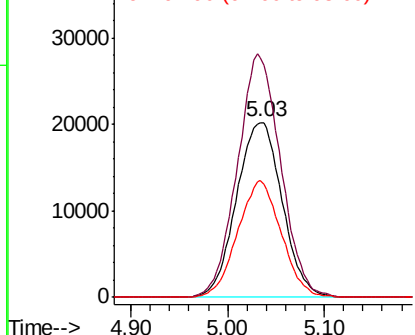


Abundance

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: 18.953 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
45	100		
43	54.7	45.0	67.6
87	29.8	22.2	33.4
59	12.6	9.1	13.7

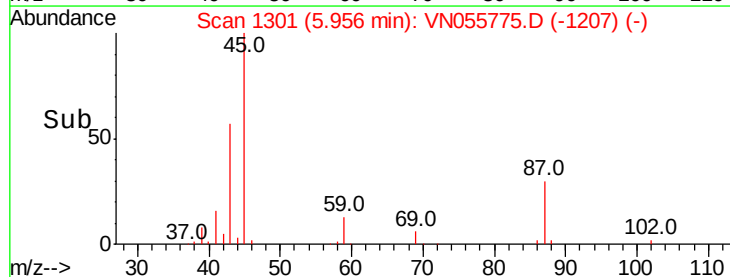
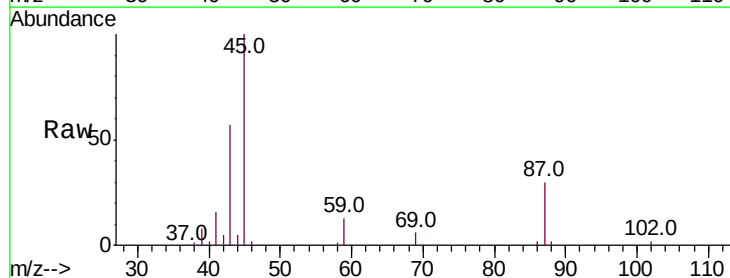
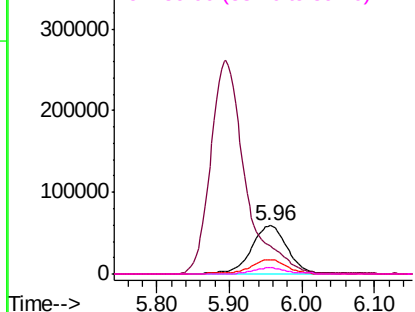
Abundance

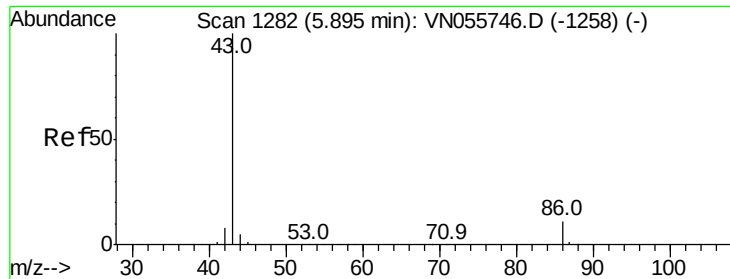
Ion 45.00 (44.70 to 45.70): VN0

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: 93.467 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion: 43 Resp: 868679

Ion Ratio Lower Upper

43 100

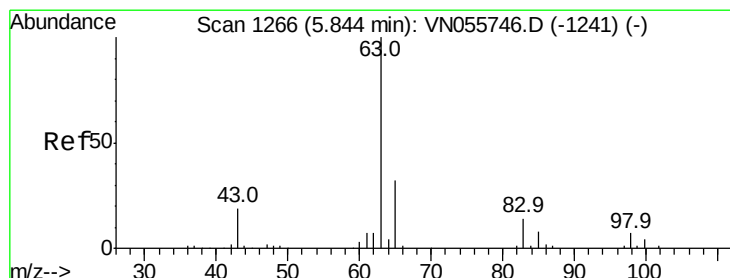
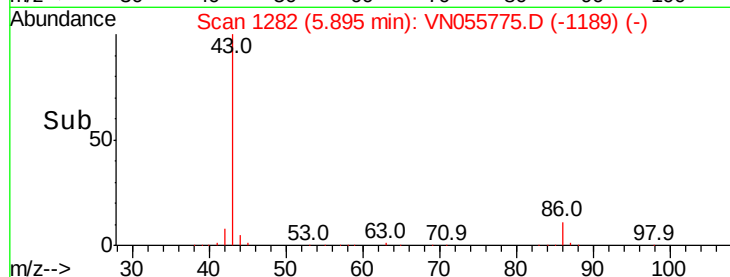
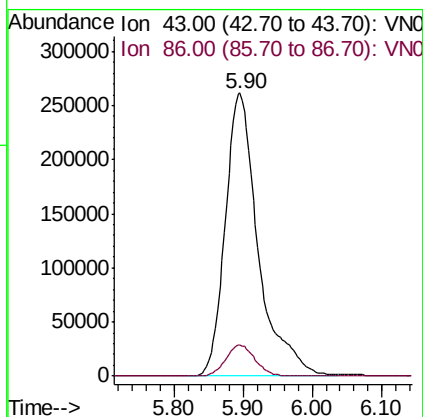
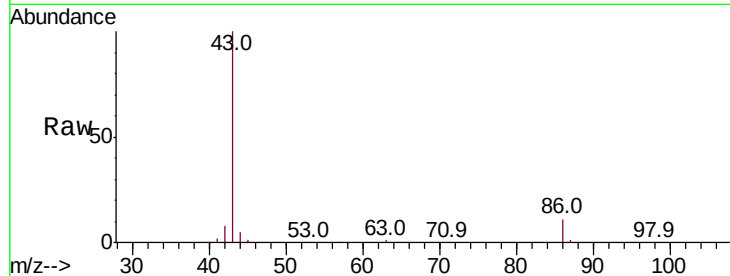
86 11.1 8.6 13.0

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:52:53 AM



#24

1,1-Dichloroethane

Concen: 18.881 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

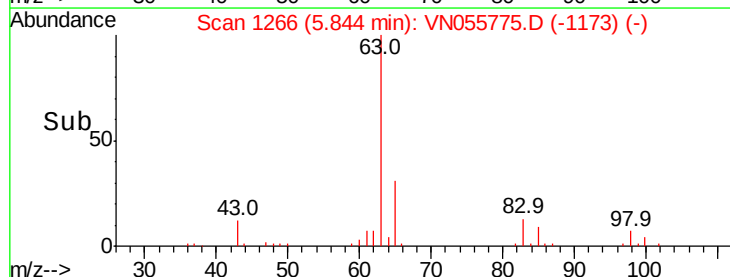
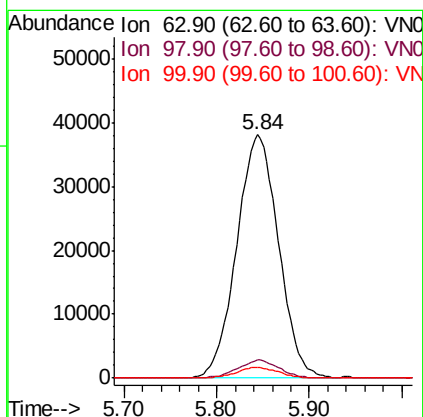
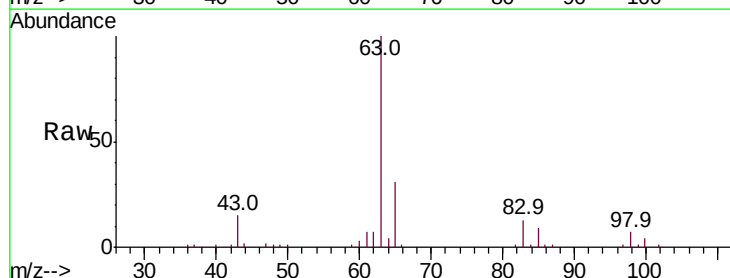
Tgt Ion: 63 Resp: 119166

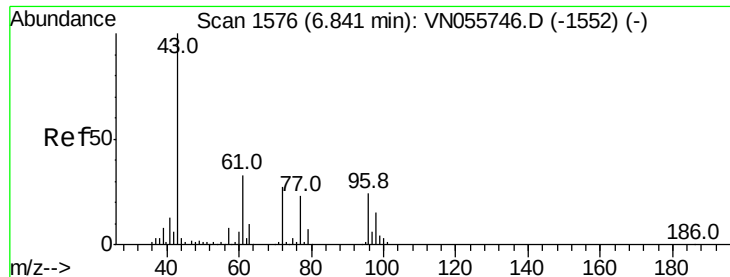
Ion Ratio Lower Upper

63 100

98 7.4 3.4 10.1

100 4.4 2.2 6.6





#25

2-Butanone

Concen: 92.085 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion: 43 Resp: 223173

Ion Ratio Lower Upper

43 100

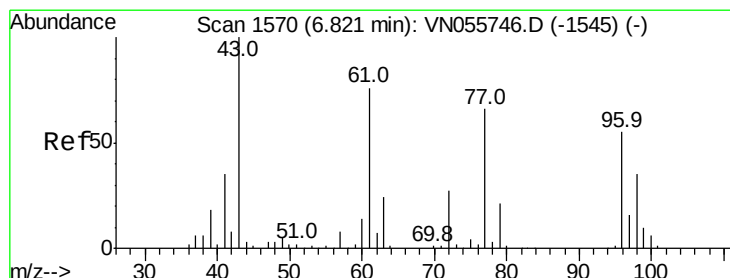
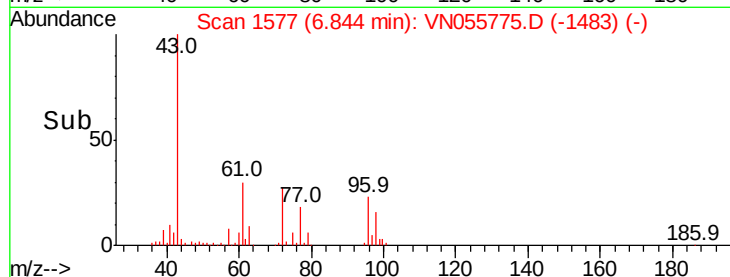
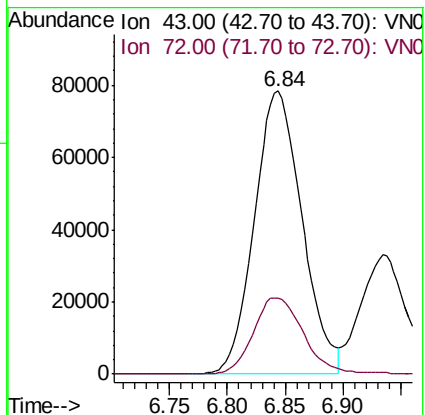
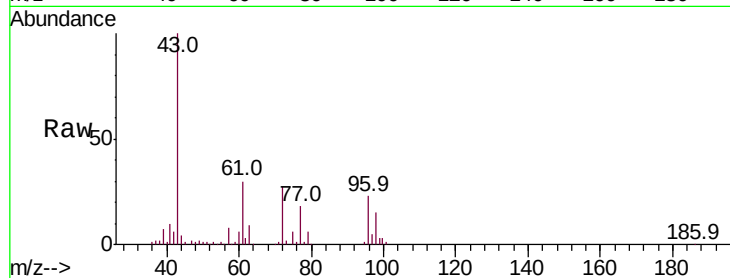
72 26.9 21.9 32.9

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:52:53 AM



#26

2,2-Dichloropropane

Concen: 14.054 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VN055775.D

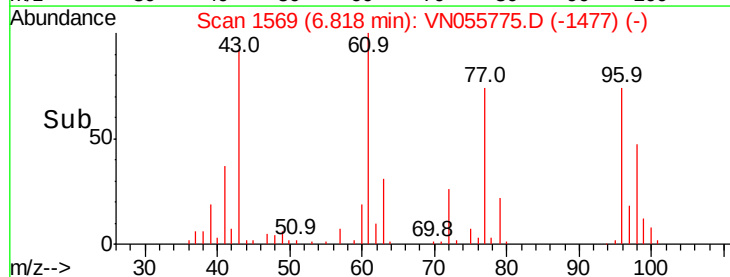
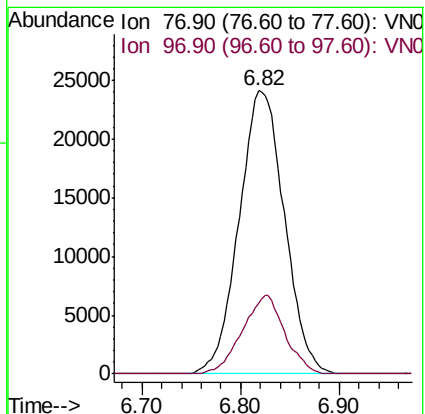
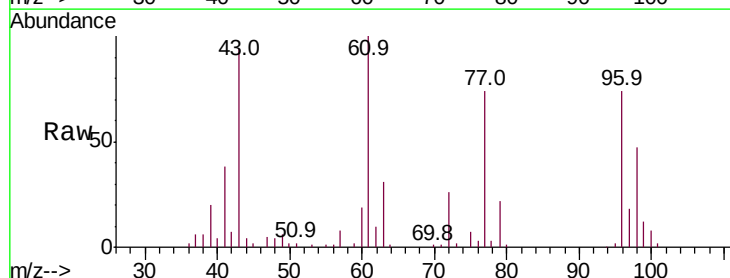
Acq: 24 May 2019 00:18

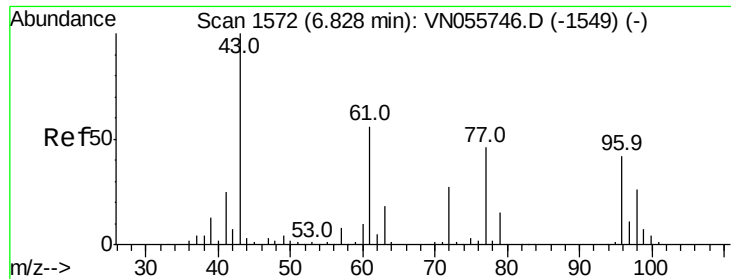
Tgt Ion: 77 Resp: 76767

Ion Ratio Lower Upper

77 100

97 25.9 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 19.153 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

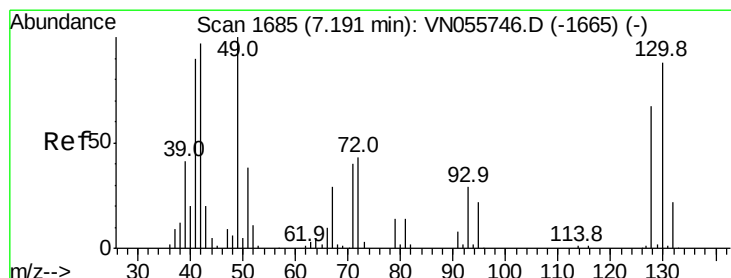
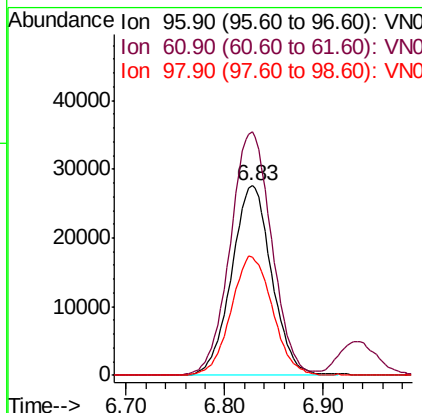
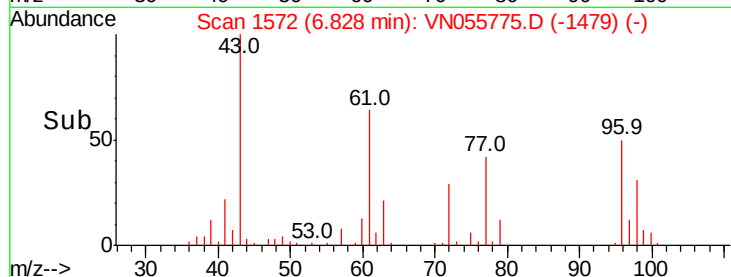
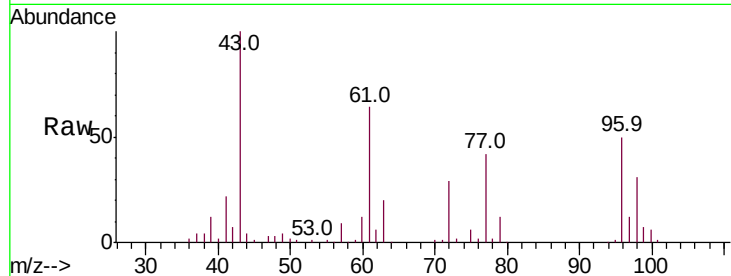
ClientSampleId :

VN0523MBSD01

Tot Ion:	96	Resp:	78047
Ion	Ratio	Lower	Upper
96	100		
61	132.7	0.0	275.8
98	64.7	0.0	128.4

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



#28

Bromochloromethane

Concen: 19.405 ug/l

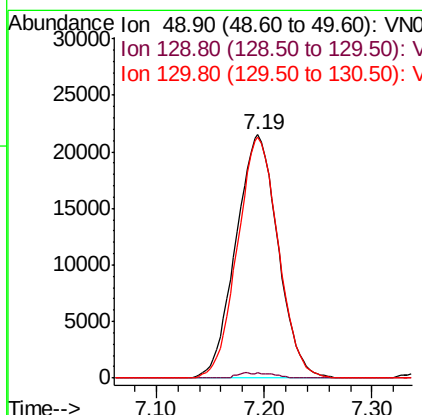
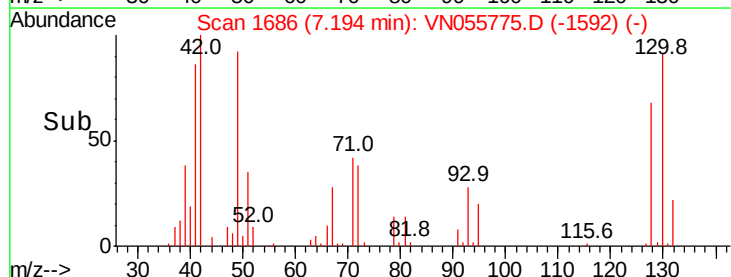
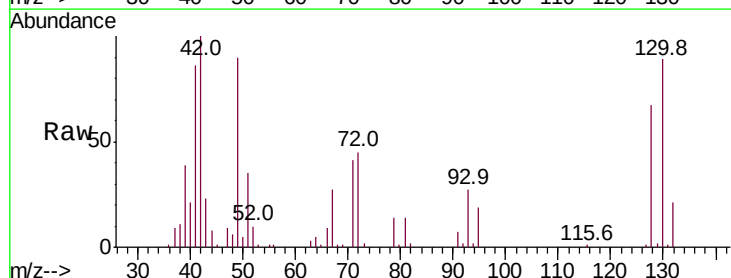
RT: 7.19 min Scan# 1686

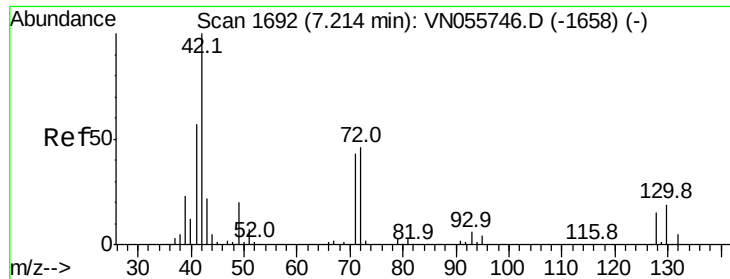
Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion:	49	Resp:	58310
Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	4.4
130	95.8	71.2	106.8





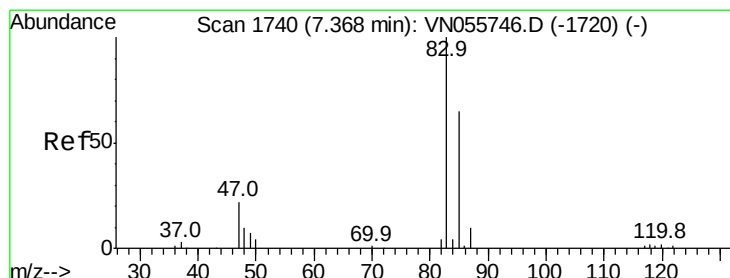
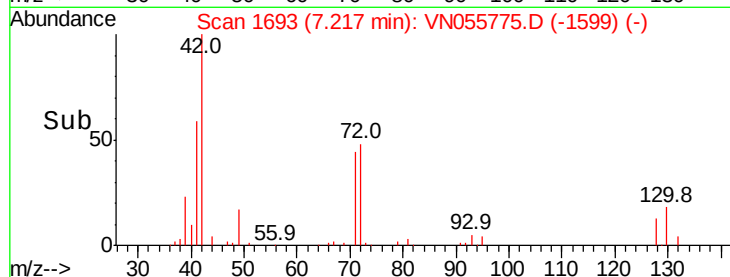
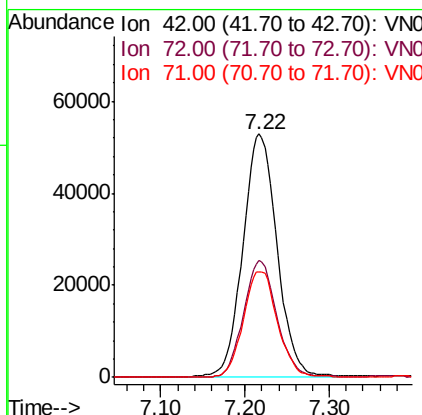
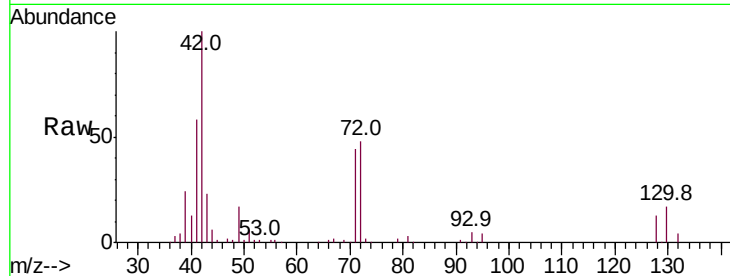
#29
Tetrahydrofuran
Concen: 97.498 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.6	35.9	53.9
71	43.3	34.0	51.0

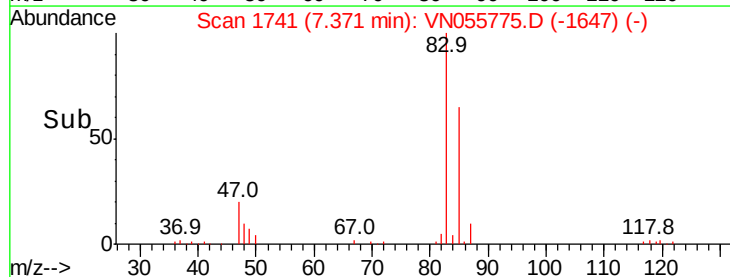
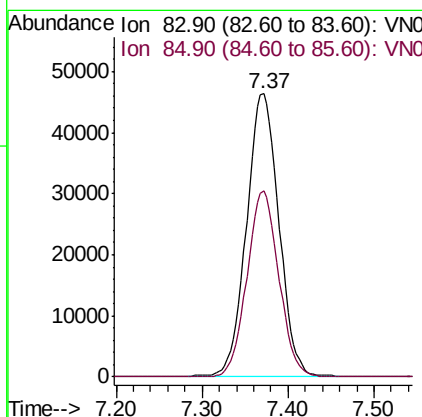
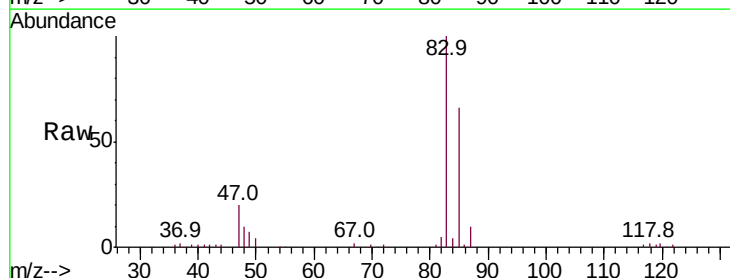
Manual Integrations
APPROVED

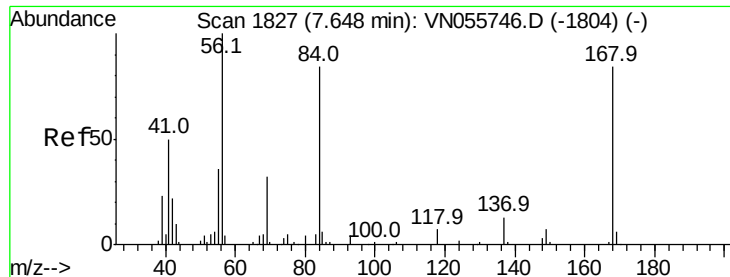
MMDadoda
5/24/2019 9:52:53 AM



#30
Chloroform
Concen: 19.347 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.8	77.8





#31

Cyclohexane

Concen: 19.722 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion: 56 Resp: 116859

Ion Ratio Lower Upper

56 100

69 36.4 25.6 38.4

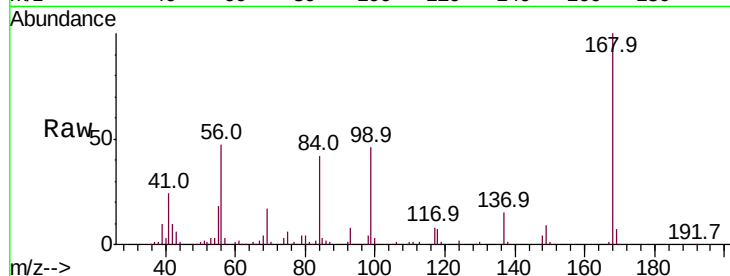
84 88.3 67.4 101.0

Manual Integrations

APPROVED

MMDadoda

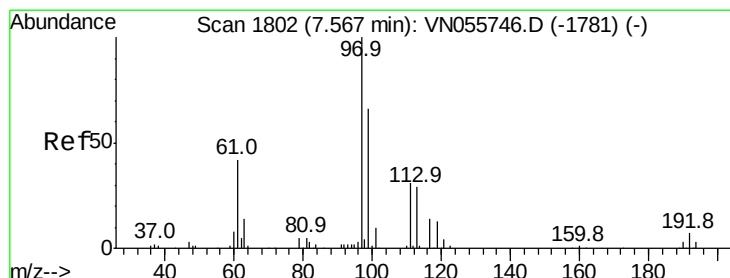
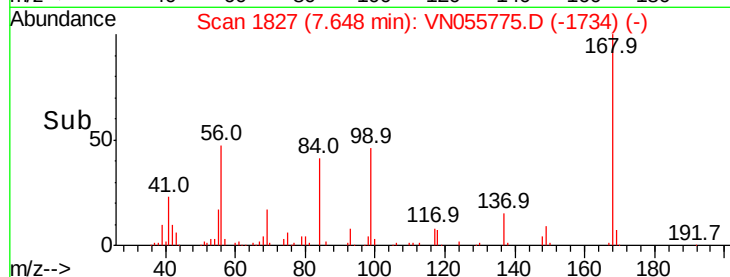
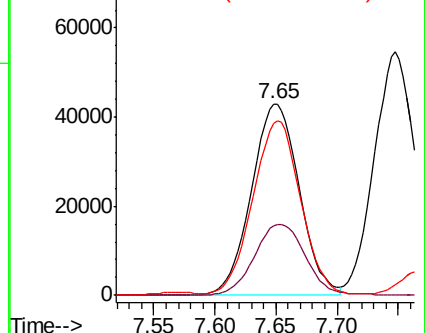
5/24/2019 9:52:53 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 19.013 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

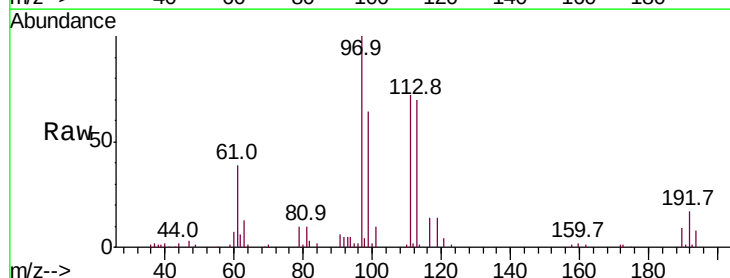
Tgt Ion: 97 Resp: 106789

Ion Ratio Lower Upper

97 100

99 64.3 52.0 78.0

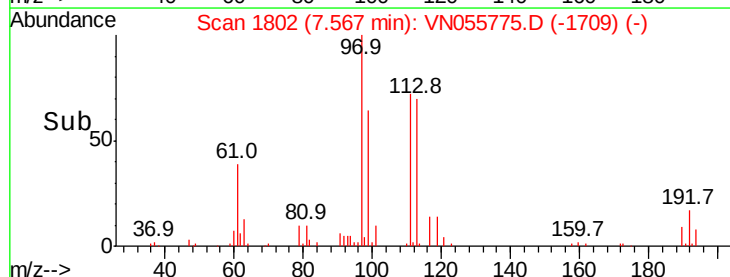
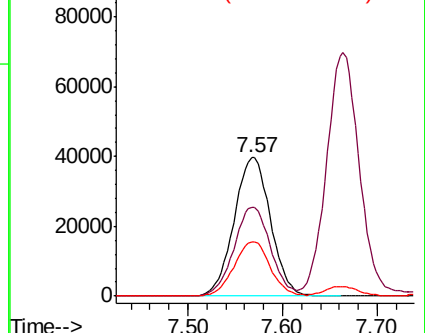
61 38.8 32.9 49.3

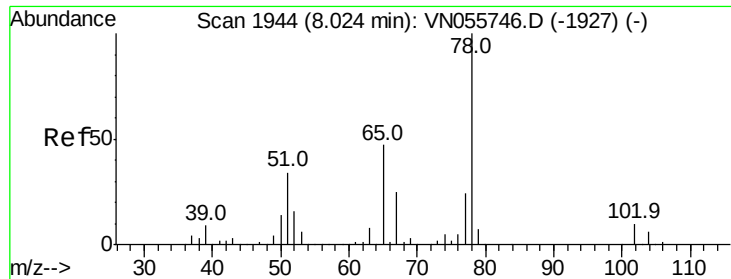


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





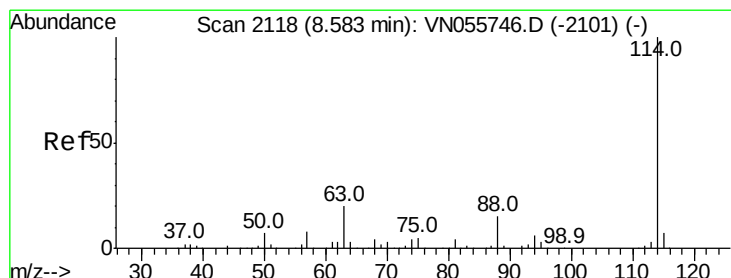
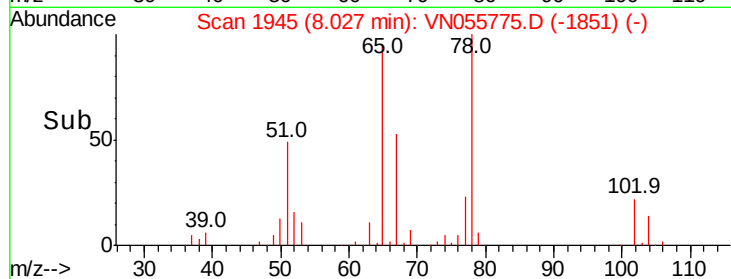
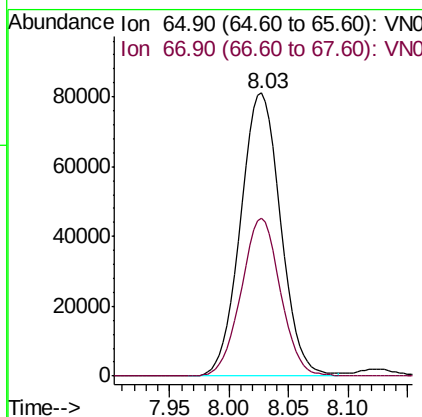
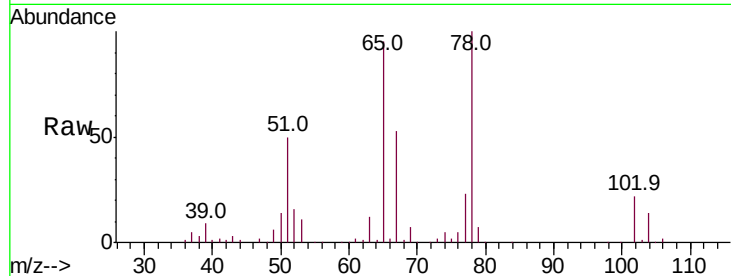
#33
 1,2-Dichloroethane-d4
 Concen: 48.014 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	189549		
67	54.7	0.0	109.2	

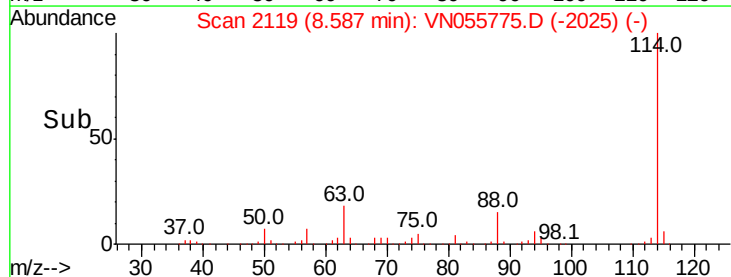
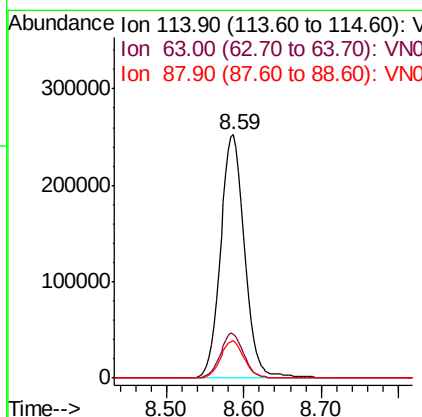
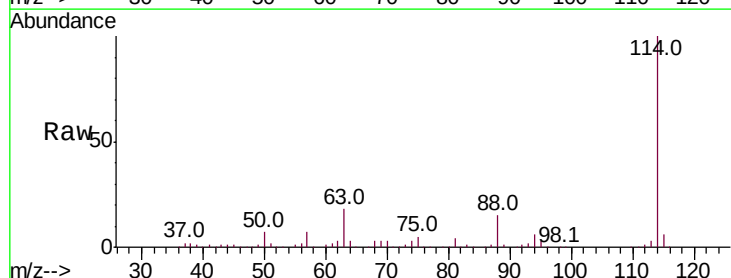
Manual Integrations
 APPROVED

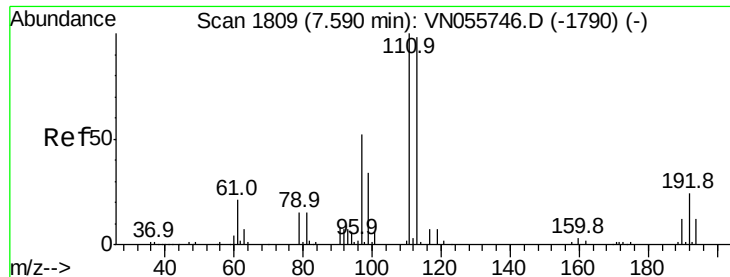
MMDadoda
 5/24/2019 9:52:53 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	546060		
63	18.2	0.0	39.2	
88	15.2	0.0	31.0	





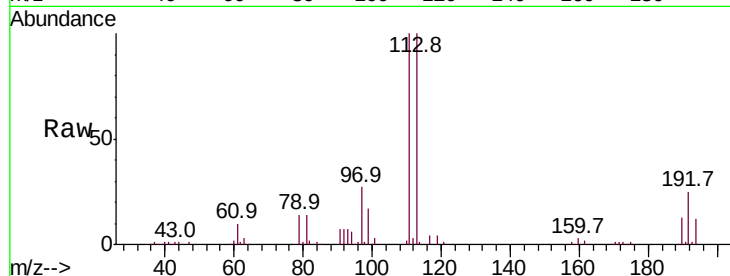
#35
 Dibromofluoromethane
 Concen: 50.301 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

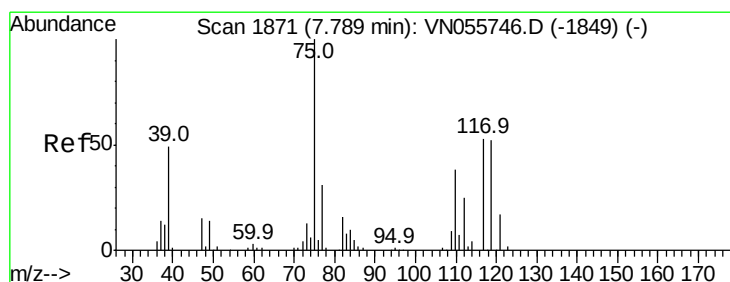
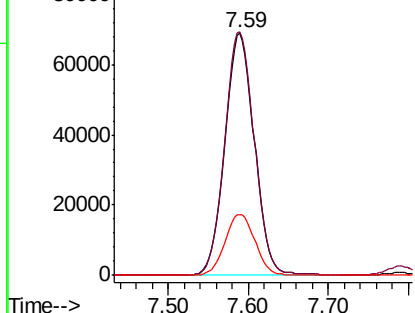
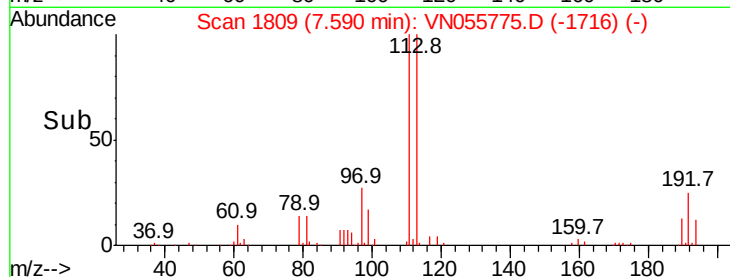
Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.5	81.9	122.9	
192	25.4	19.5	29.3	

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:52:53 AM

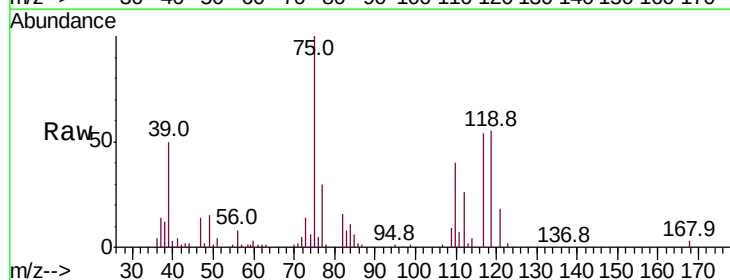


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

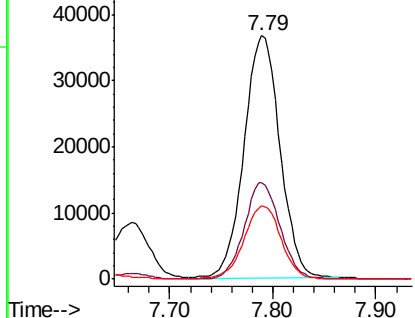
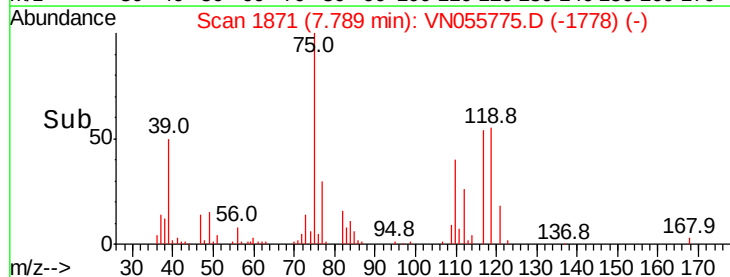


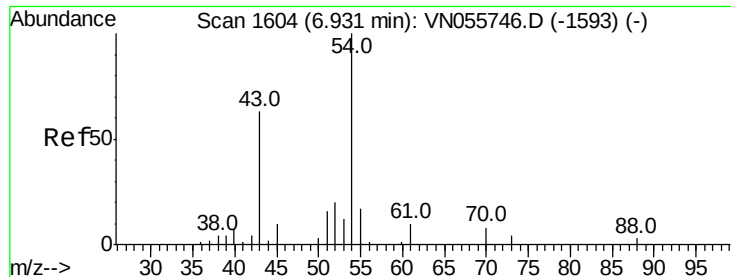
#36
 1,1-Dichloropropene
 Concen: 18.704 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	39.2	19.0	57.0	
77	31.1	25.1	37.7	



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 19.700 ug/l

RT: 6.93 min Scan# 1605

Delta R.T. 0.00 min

Lab File: VN055775.D

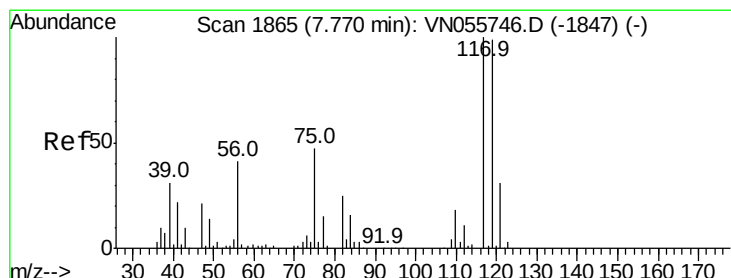
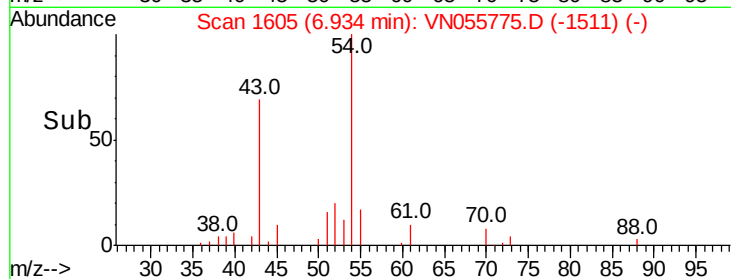
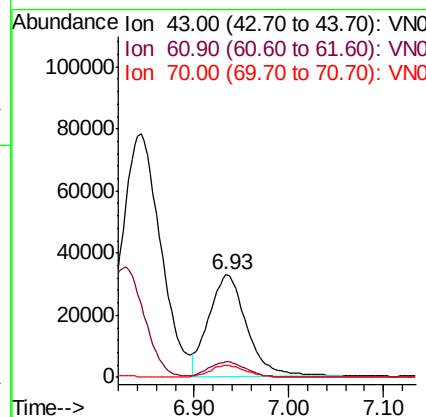
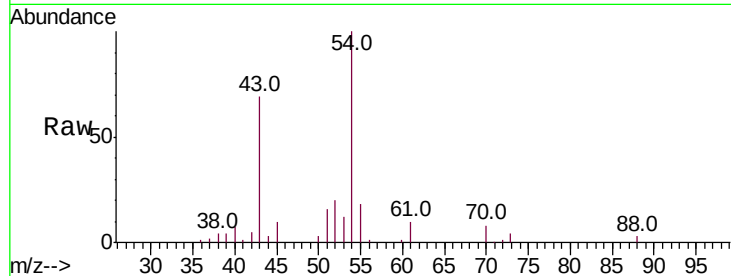
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion	43	Resp	90607
Ion	Ratio	Lower	Upper
43	100		
61	15.2	12.2	18.2
70	11.4	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



#38

Carbon Tetrachloride

Concen: 19.435 ug/l

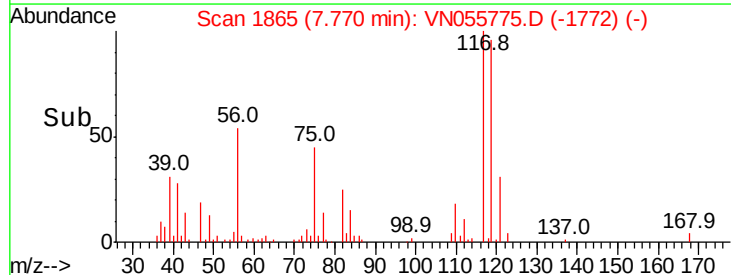
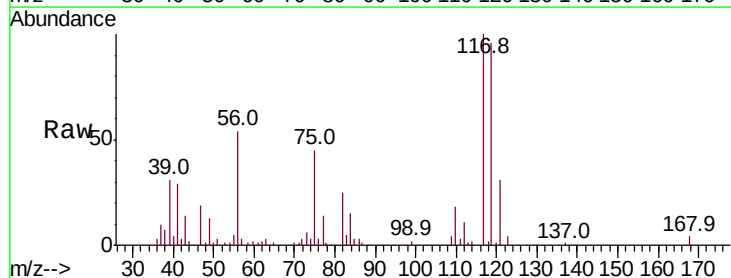
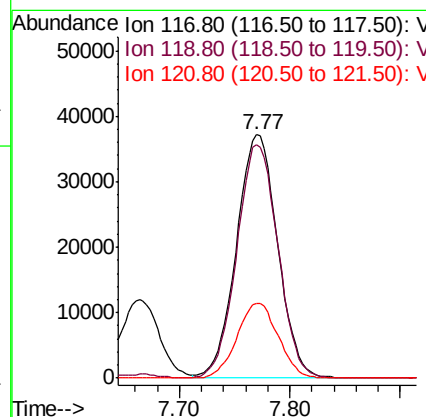
RT: 7.77 min Scan# 1865

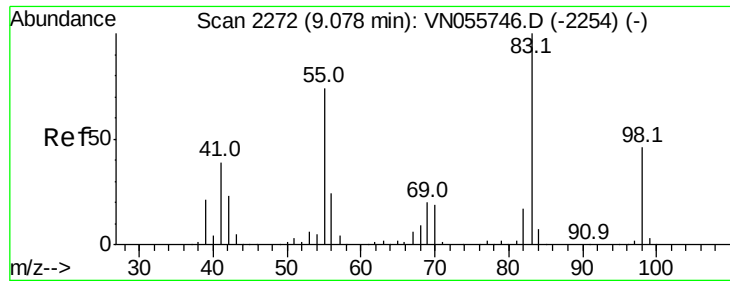
Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion	117	Resp	96338
Ion	Ratio	Lower	Upper
117	100		
119	96.0	79.0	118.6
121	30.7	24.7	37.1





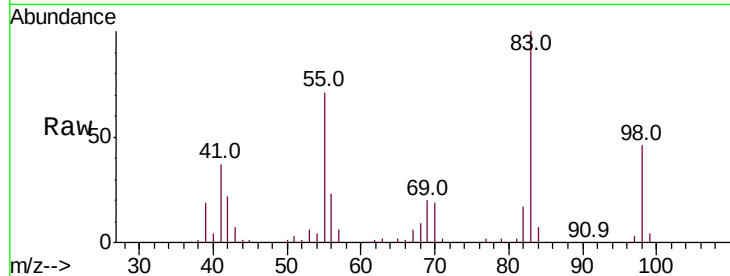
#39
Methylvlcyclohexane
Concen: 20.023 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

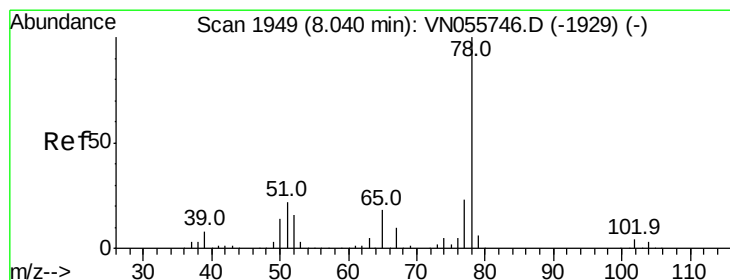
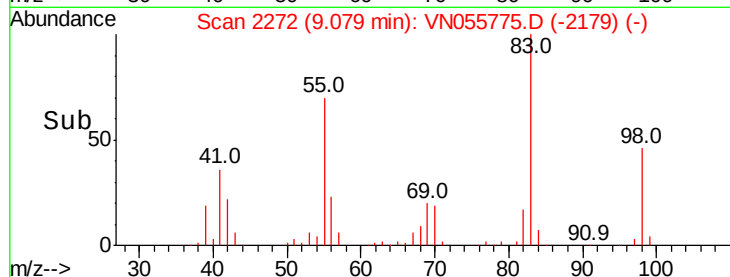
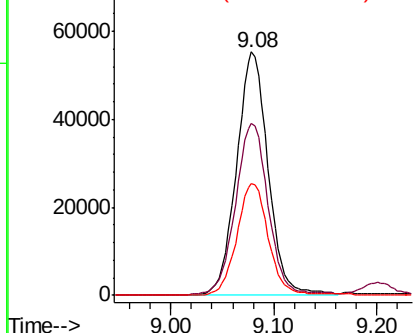
Tot Ion	83	Resp	117993
Ion Ratio	100	Lower	Upper
83	100		
55	70.1	59.3	88.9
98	45.8	36.6	54.8

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM

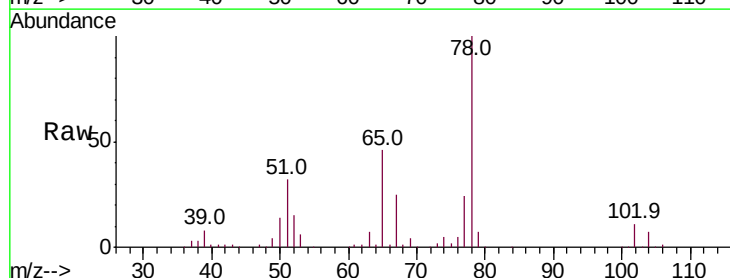


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

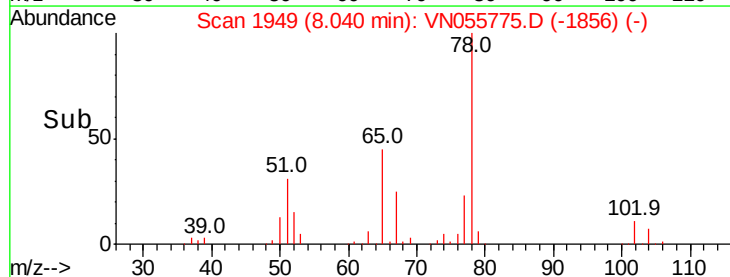
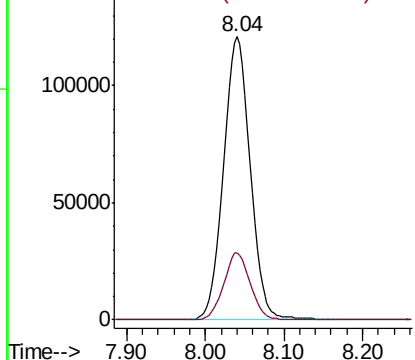


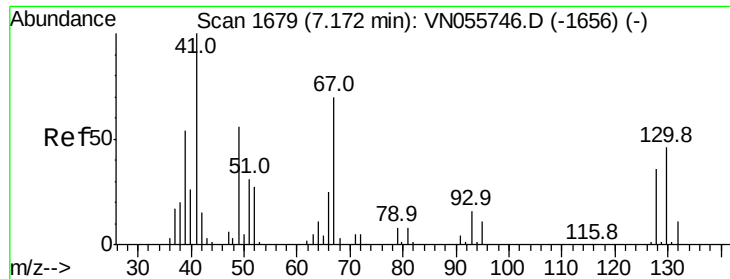
#40
Benzene
Concen: 19.752 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion	78	Resp	283277
Ion Ratio	100	Lower	Upper
78	100		
77	23.7	18.8	28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





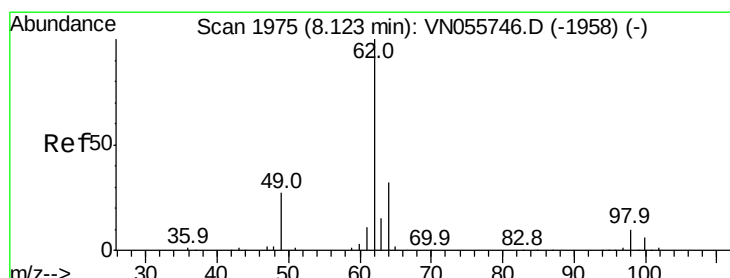
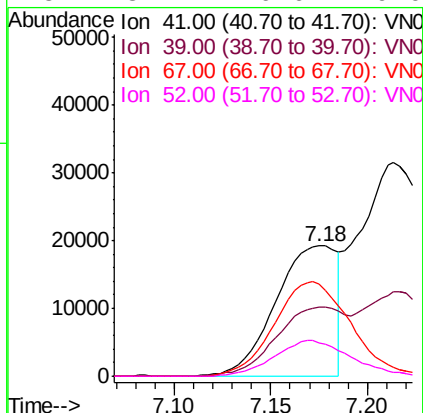
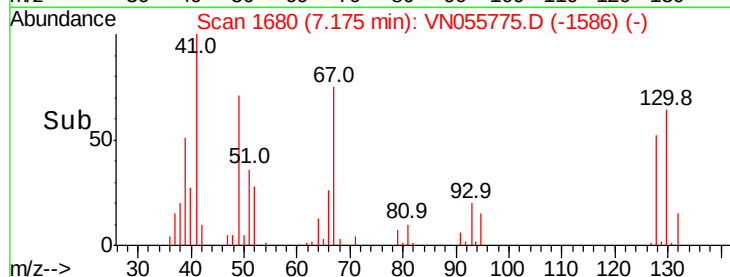
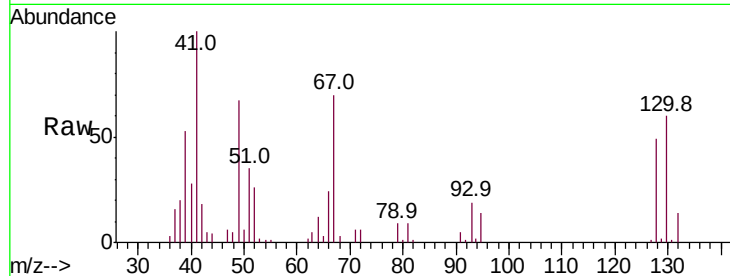
#41
Methacrylonitrile
Concen: 18.279 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.4	45.6	68.4
67	90.1	67.7	101.5
52	34.4	26.6	40.0

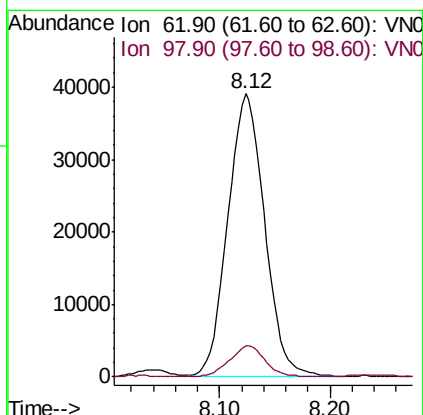
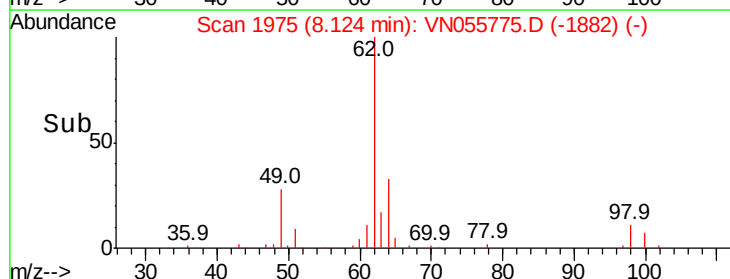
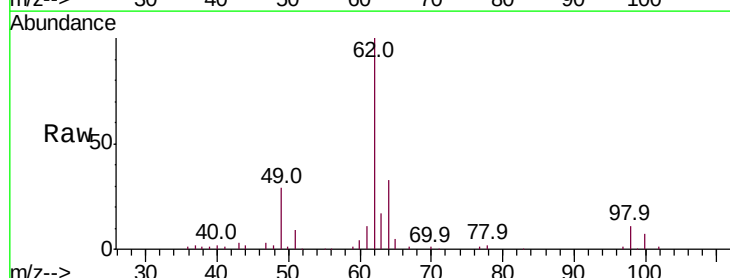
Manual Integrations
APPROVED

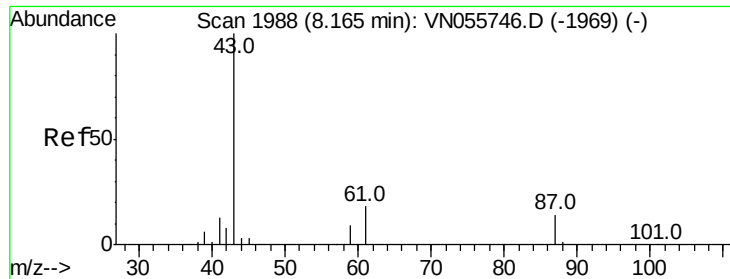
MMDadoda
5/24/2019 9:52:53 AM



#42
1,2-Dichloroethane
Concen: 19.338 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	20.2





#43

Isopropyl Acetate

Concen: 19.347 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

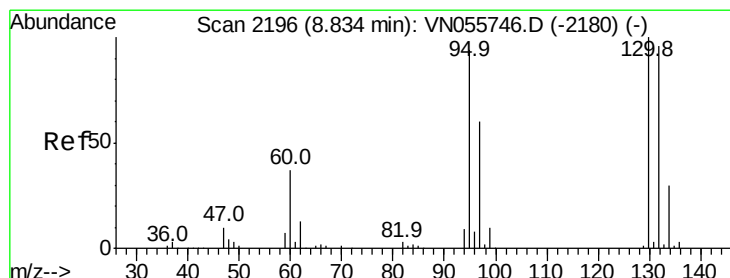
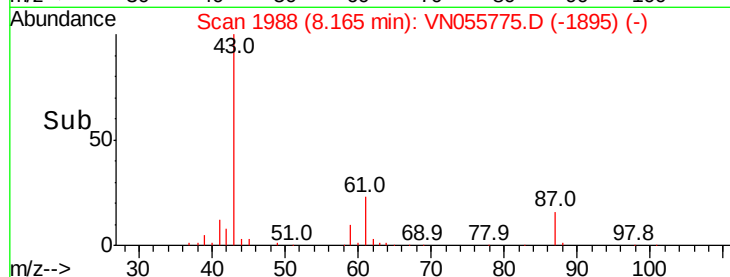
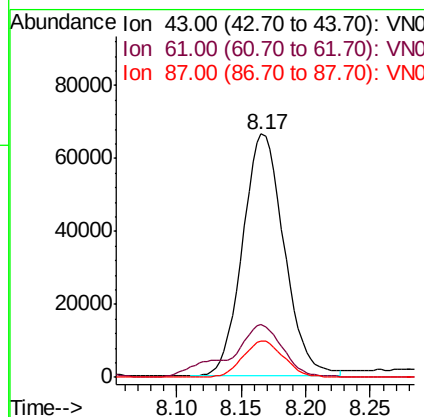
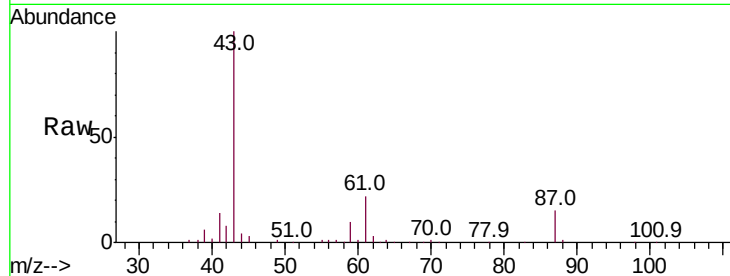
ClientSampleId :

VN0523MBSD01

Tot Ion:	43	Resp:	149505
Ion	Ratio	Lower	Upper
43	100		
61	27.8	22.2	33.4
87	14.8	11.4	17.2

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



#44

Trichloroethene

Concen: 21.021 ug/l

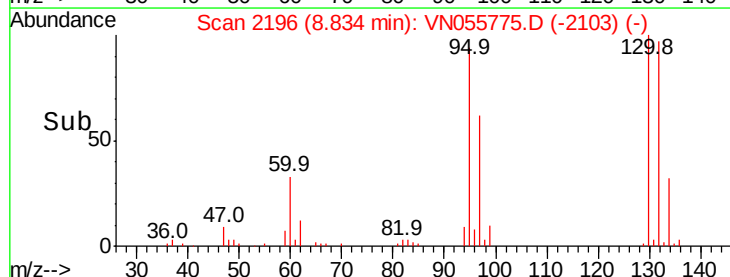
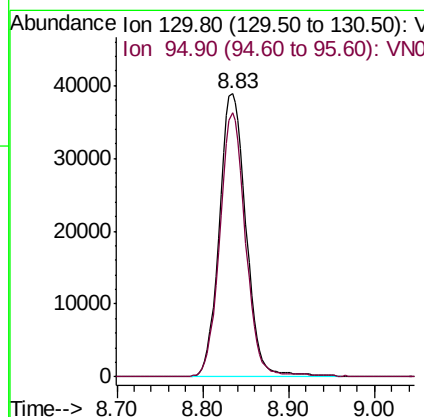
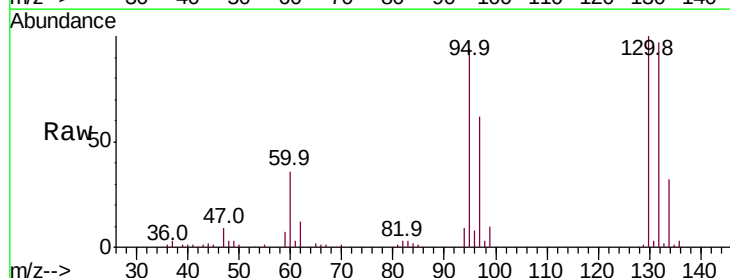
RT: 8.83 min Scan# 2196

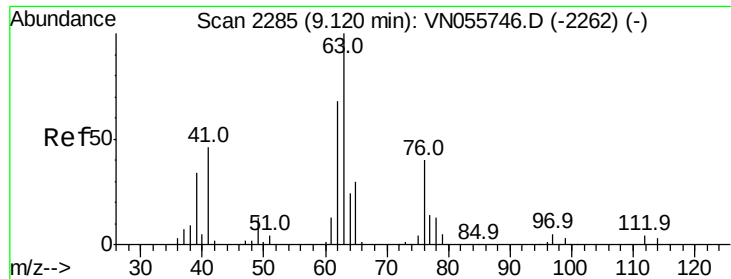
Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion:	130	Resp:	84045
Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	188.0





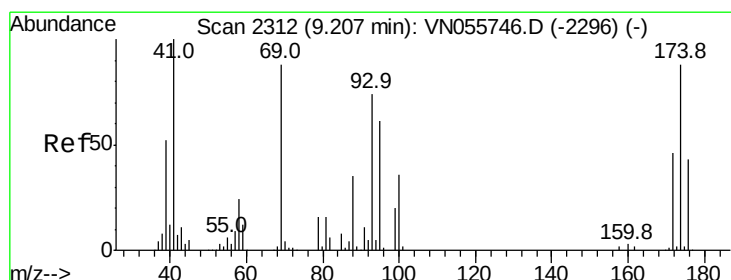
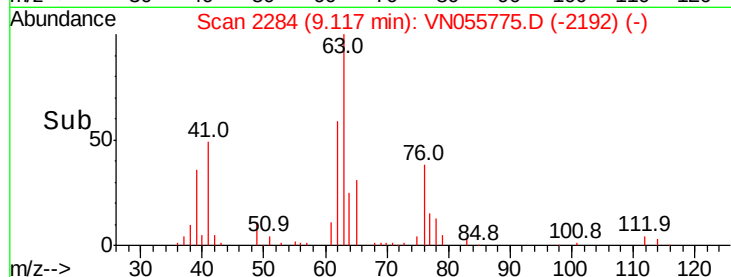
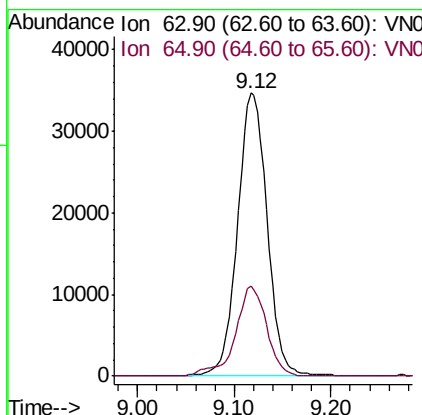
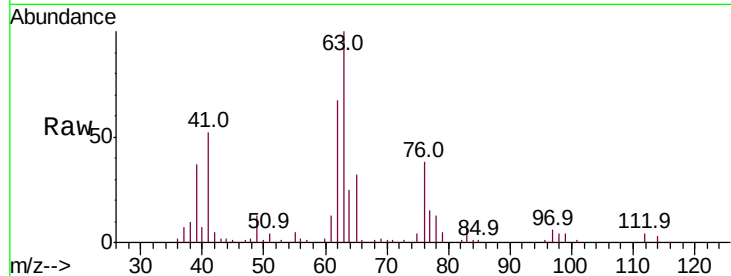
#45
 1,2-Dichloropropane
 Concen: 19.789 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

Tot Ion: 63 Resp: 73943
 Ion Ratio Lower Upper
 63 100
 65 32.0 24.6 36.8

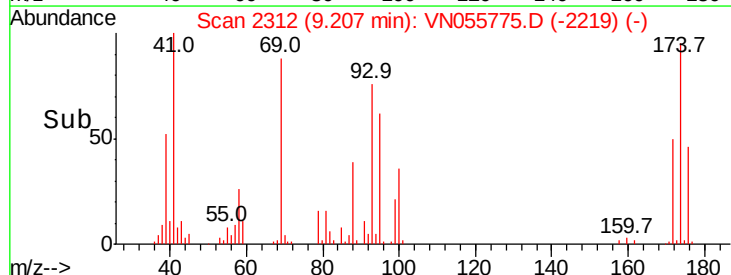
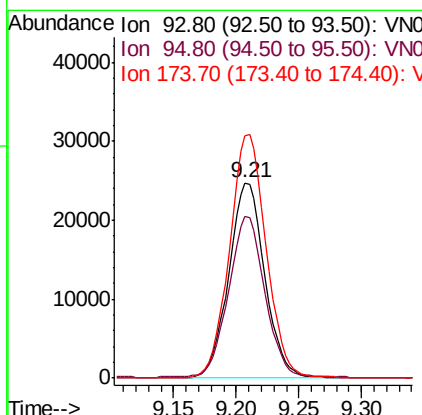
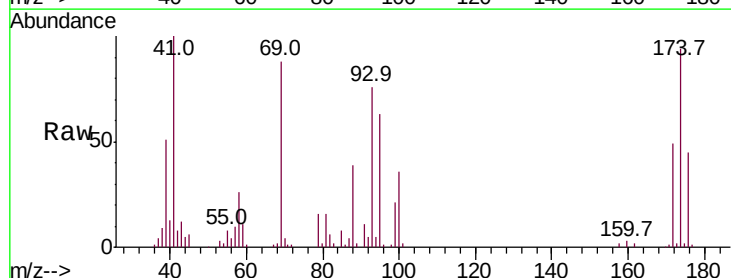
Manual Integrations
 APPROVED

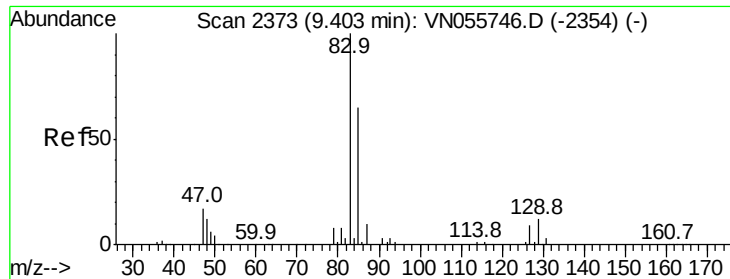
MMDadoda
 5/24/2019 9:52:53 AM



#46
 Dibromomethane
 Concen: 20.130 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion: 93 Resp: 49330
 Ion Ratio Lower Upper
 93 100
 95 83.9 66.7 100.1
 174 126.8 96.4 144.6





#47

Bromodichloromethane

Concen: 19.278 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

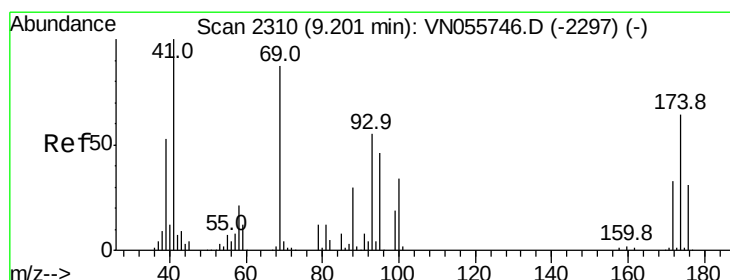
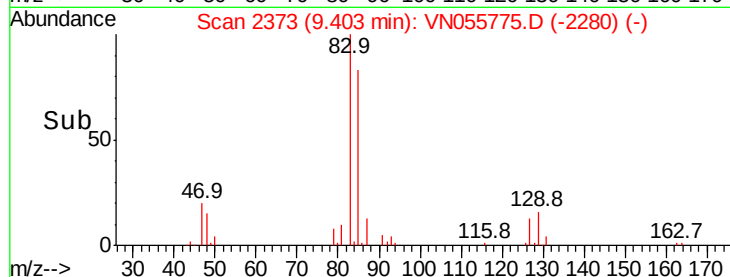
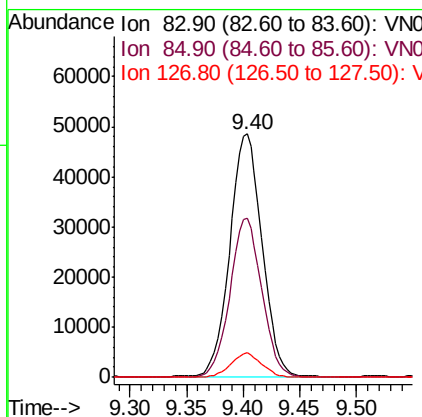
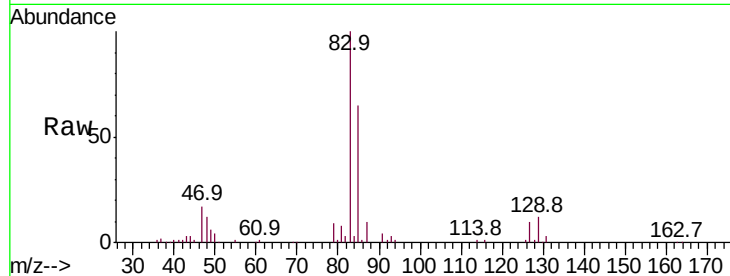
ClientSampleId :

VN0523MBSD01

Tot Ion:	83	Resp:	96870
Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.2	78.2
127	10.0	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



#48

Methyl methacrylate

Concen: 20.133 ug/l

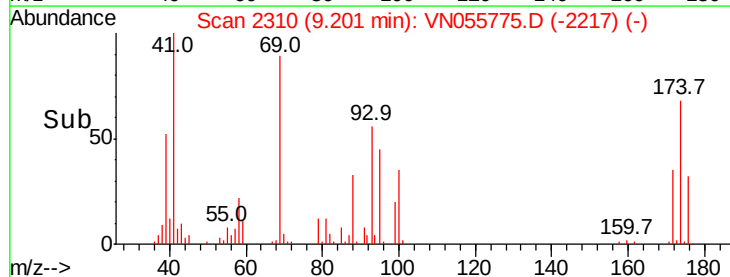
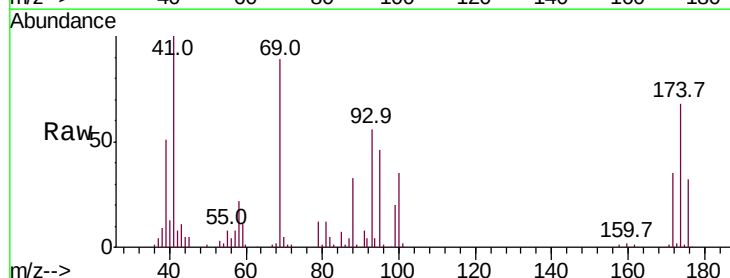
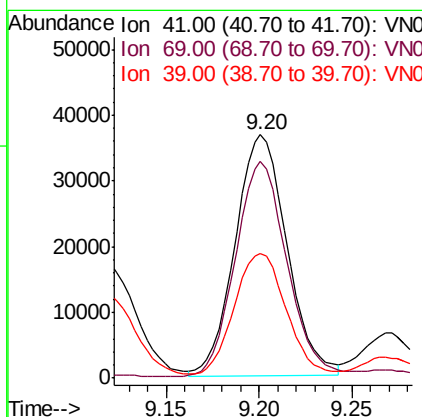
RT: 9.20 min Scan# 2310

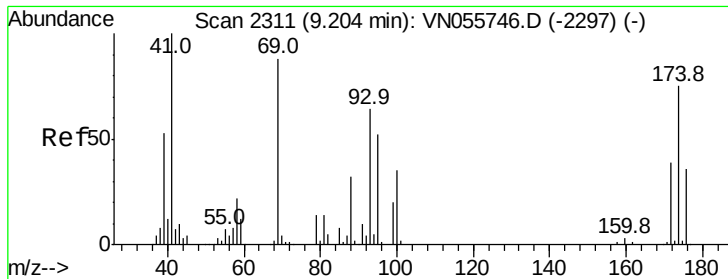
Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion:	41	Resp:	71703
Ion	Ratio	Lower	Upper
41	100		
69	88.2	71.0	106.6
39	52.1	44.2	66.2





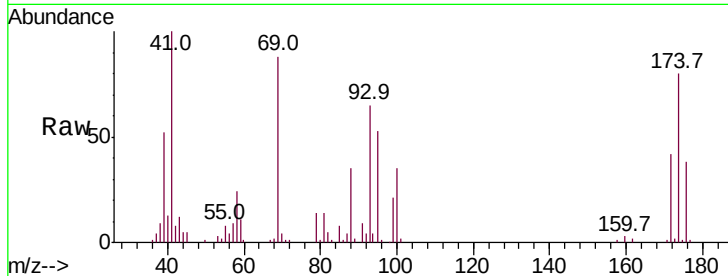
#49
 1,4-Dioxane
 Concen: 410.310 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

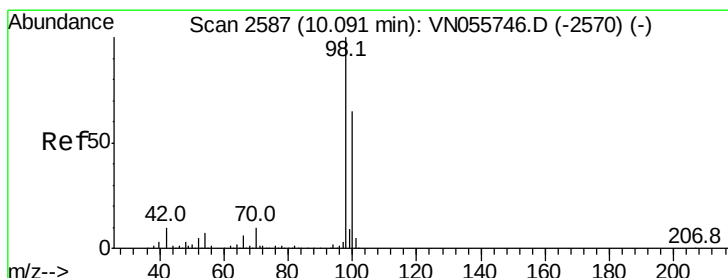
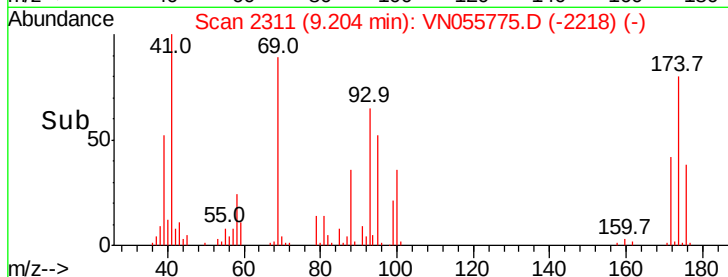
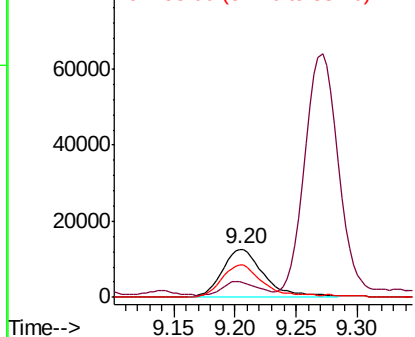
Tot Ion	88	Resp	30367
Ion	Ratio	Lower	Upper
88	100		
43	22.7	20.5	30.7
58	67.2	55.8	83.6

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:52:53 AM

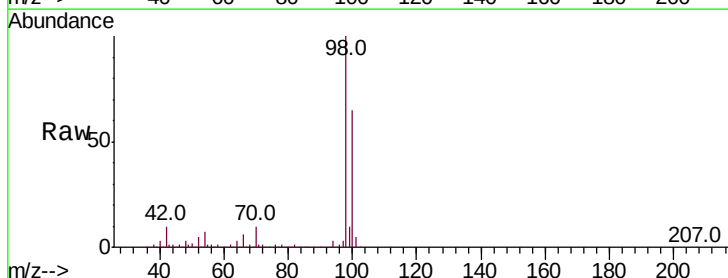


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

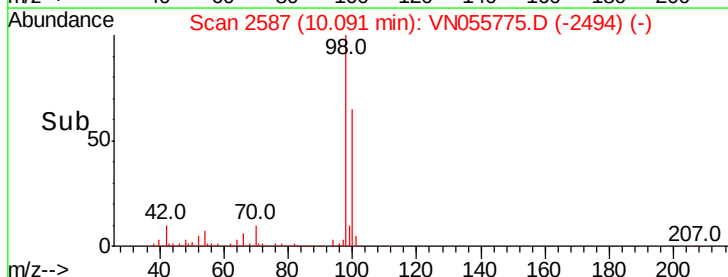
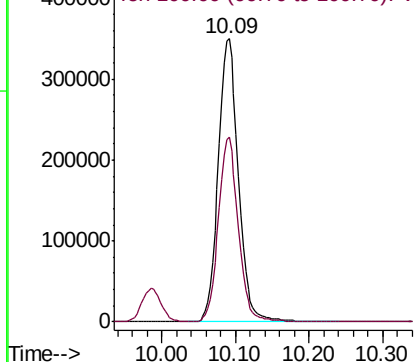


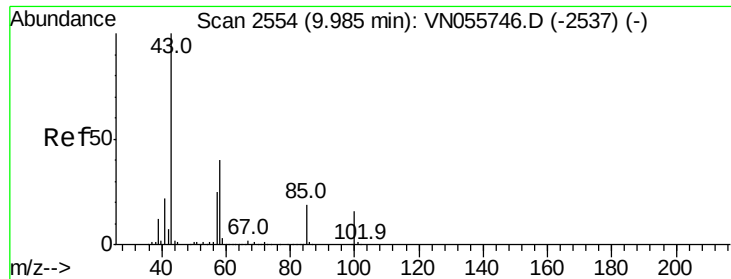
#50
 Toluene-d8
 Concen: 50.214 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion	98	Resp	664979
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.9	77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0





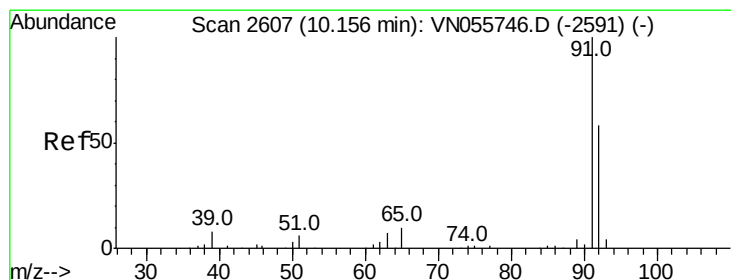
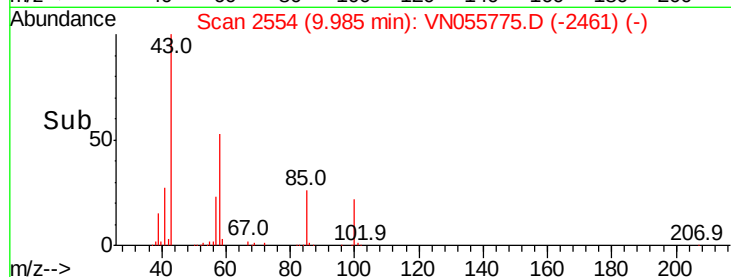
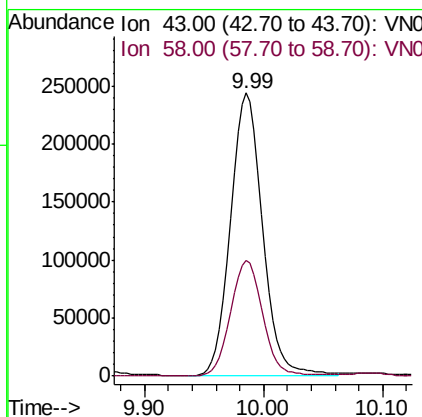
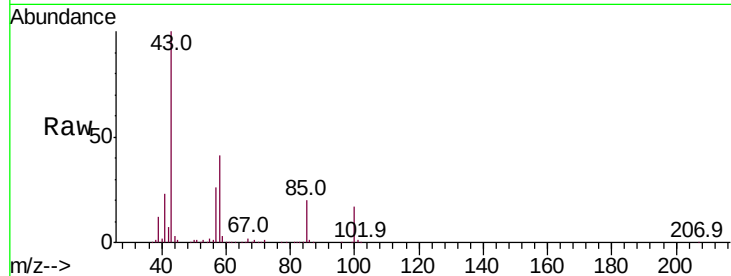
#51
4-Methyl-2-Pentanone
Concen: 99.681 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion: 43 Resp: 454935
Ion Ratio Lower Upper
43 100
58 41.2 32.1 48.1

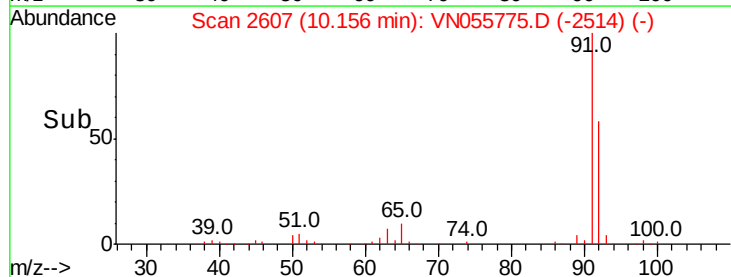
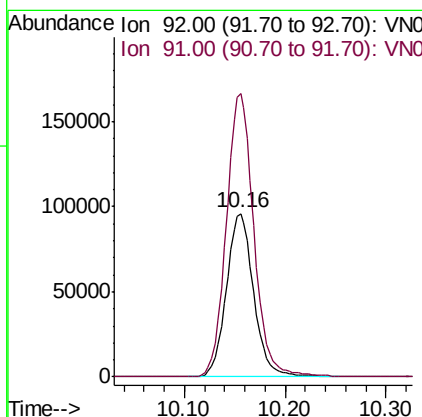
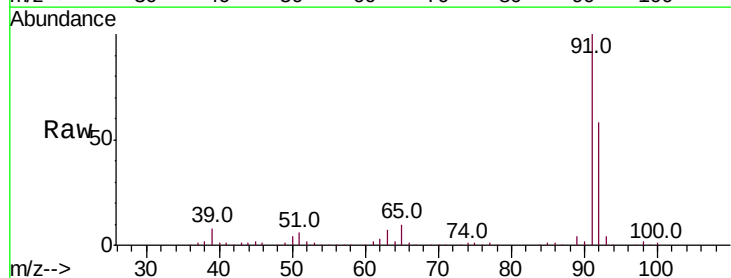
Manual Integrations
APPROVED

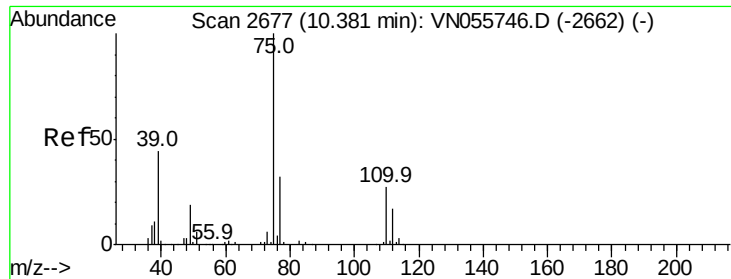
MMDadoda
5/24/2019 9:52:53 AM



#52
Toluene
Concen: 20.117 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion: 92 Resp: 181457
Ion Ratio Lower Upper
92 100
91 174.9 139.4 209.2





#53

t-1,3-Dichloropropene

Concen: 18.557 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion: 75 Resp: 99533

Ion Ratio Lower Upper

75 100

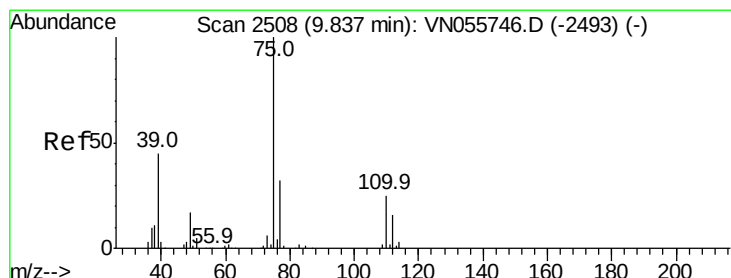
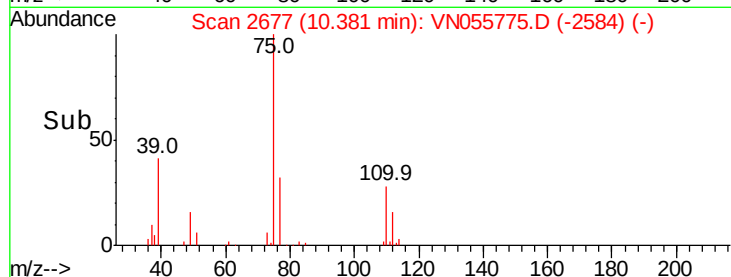
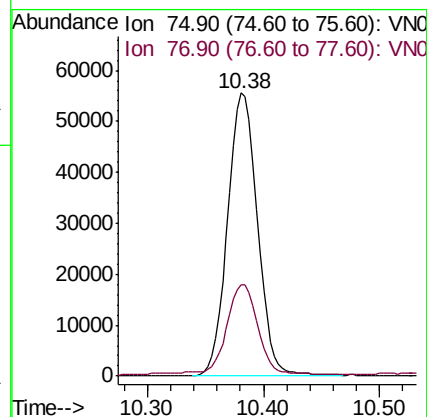
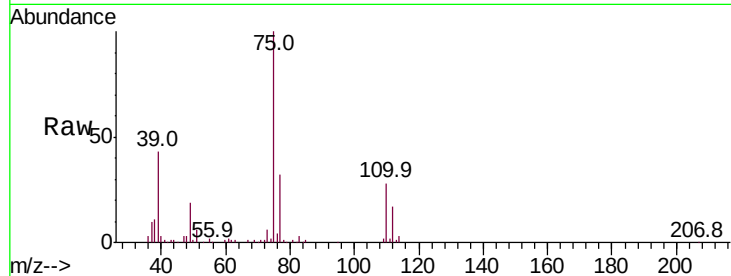
77 31.5 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:52:53 AM



#54

cis-1,3-Dichloropropene

Concen: 18.490 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

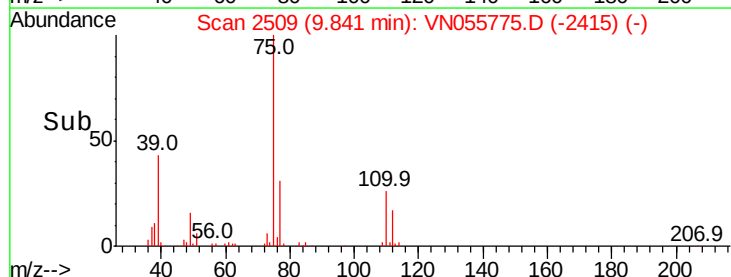
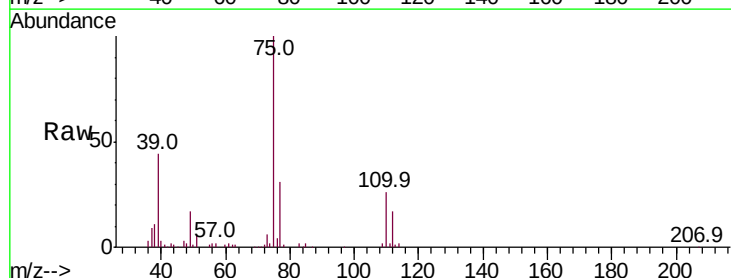
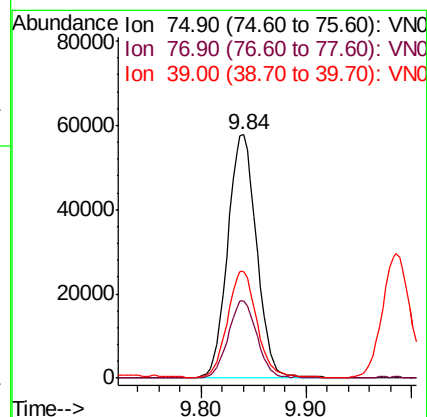
Tgt Ion: 75 Resp: 109868

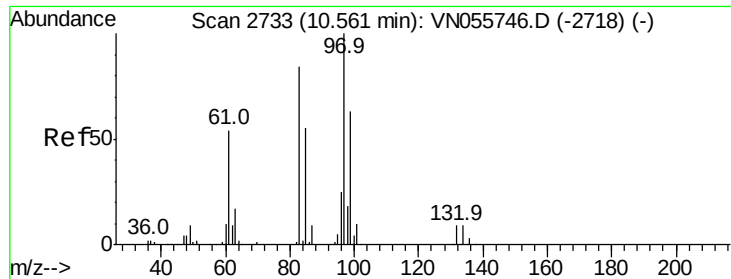
Ion Ratio Lower Upper

75 100

77 31.5 25.4 38.0

39 43.4 36.3 54.5





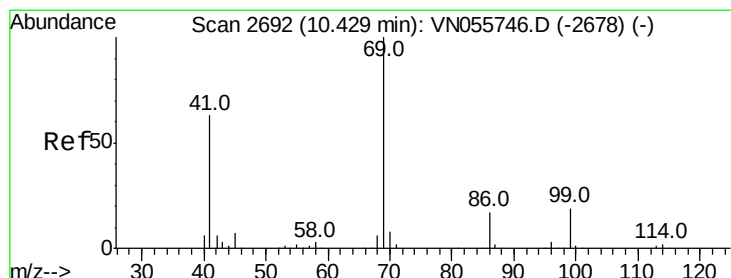
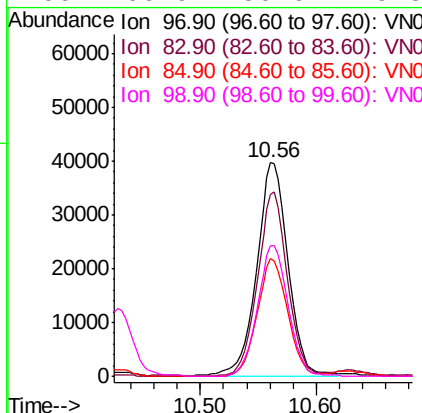
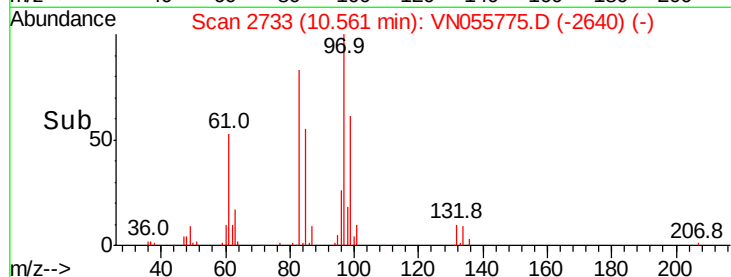
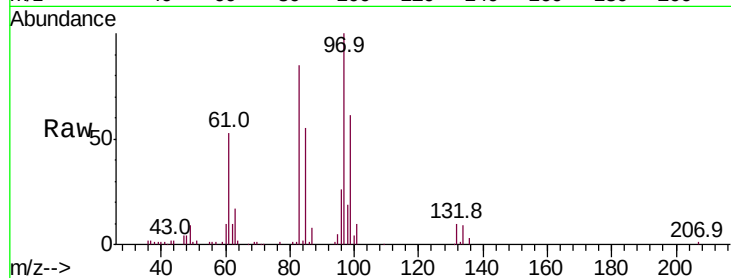
#55
 1,1,2-Trichloroethane
 Concen: 20.703 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

Tot Ion:	97	Resp:	74811
Ion	Ratio	Lower	Upper
97	100		
83	85.3	67.0	100.6
85	54.9	44.0	66.0
99	60.9	50.6	75.8

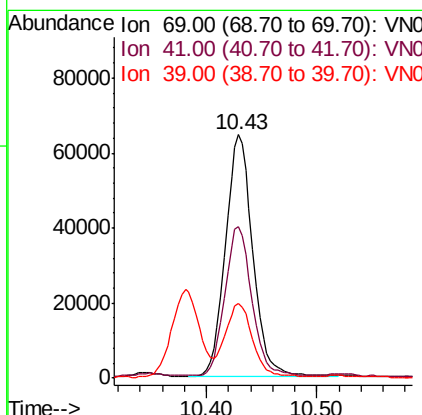
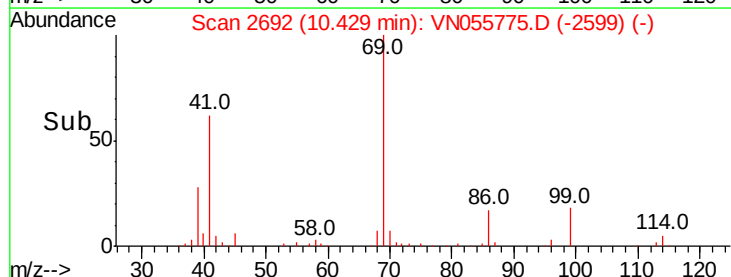
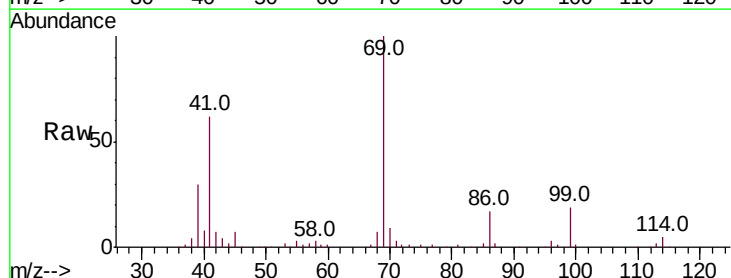
Manual Integrations
 APPROVED

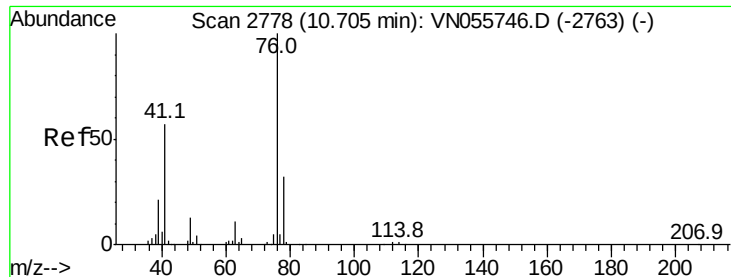
MMDadoda
 5/24/2019 9:52:53 AM



#56
 Ethyl methacrylate
 Concen: 19.873 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion:	69	Resp:	110983
Ion	Ratio	Lower	Upper
69	100		
41	60.7	49.7	74.5
39	30.6	24.7	37.1





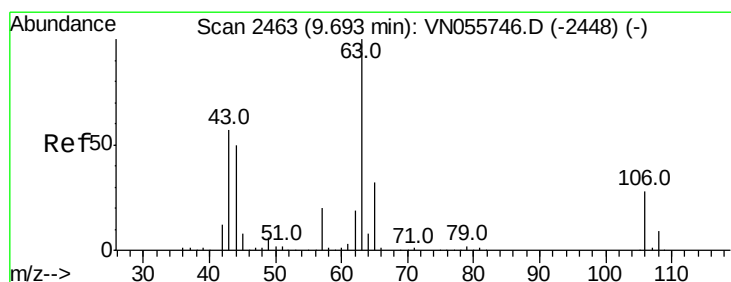
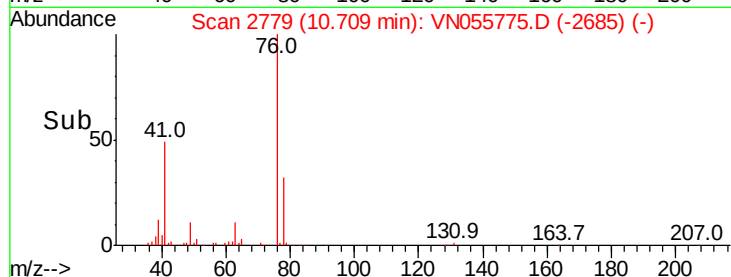
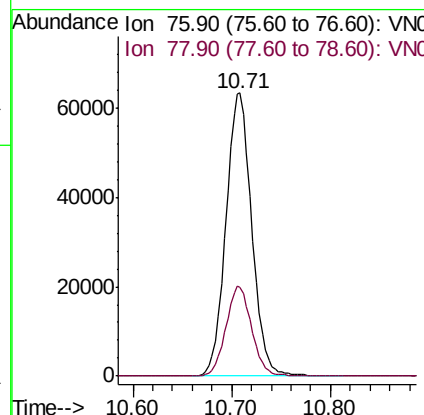
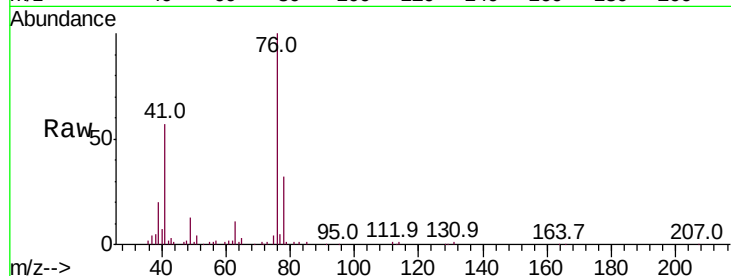
#57
 1,3-Dichloropropane
 Concen: 19.805 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampled :
 VN0523MBSD01

Tot Ion: 76 Resp: 116328
 Ion Ratio Lower Upper
 76 100
 78 31.6 25.8 38.6

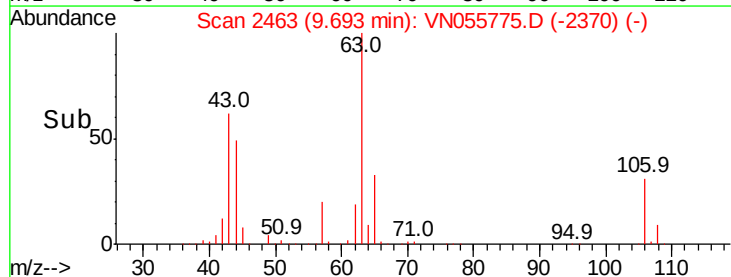
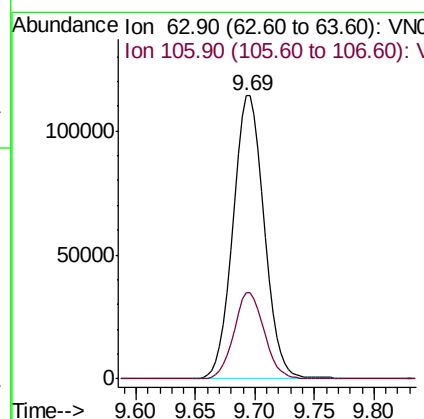
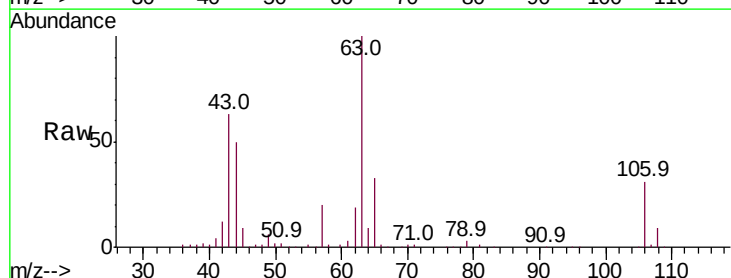
Manual Integrations
 APPROVED

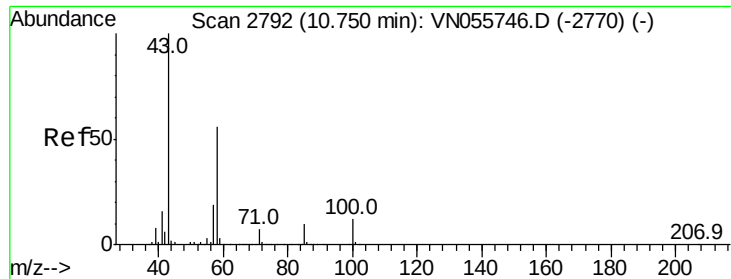
MMDadoda
 5/24/2019 9:52:53 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 97.633 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion: 63 Resp: 208367
 Ion Ratio Lower Upper
 63 100
 106 29.7 22.7 34.1





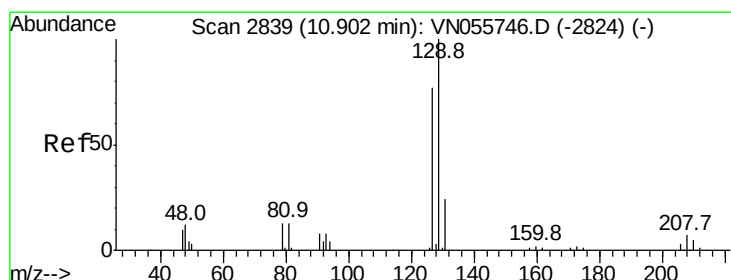
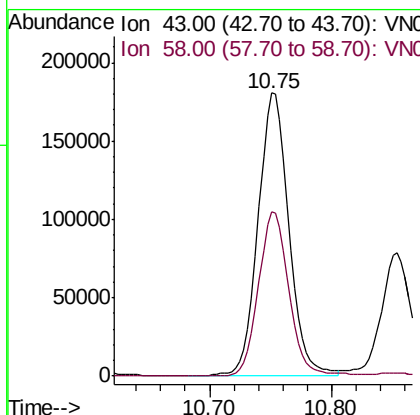
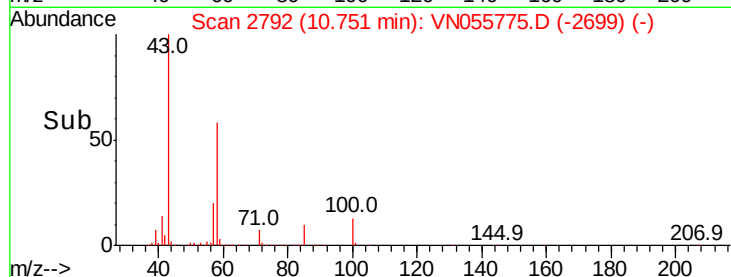
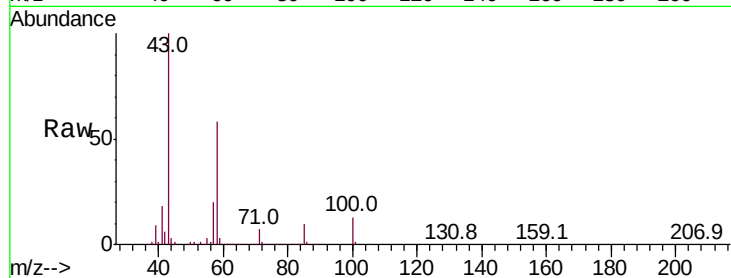
#59
2-Hexanone
Concen: 97.178 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion: 43 Resp: 314630
Ion Ratio Lower Upper
43 100
58 57.7 28.2 84.7

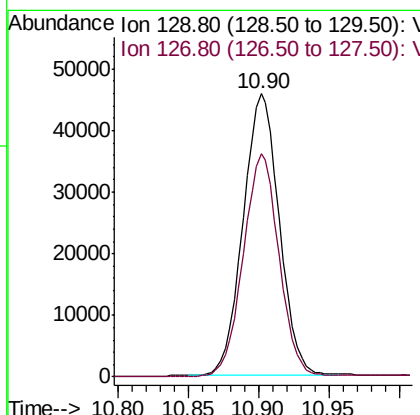
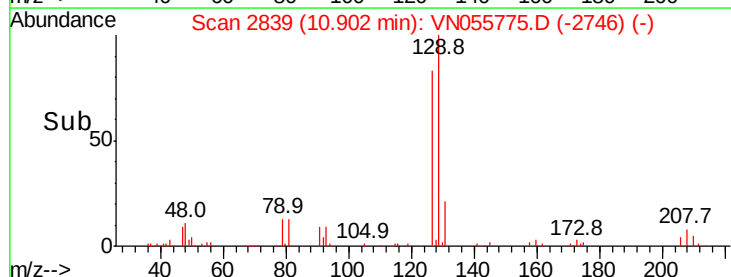
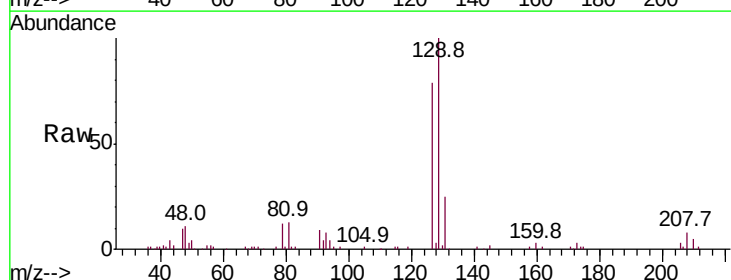
Manual Integrations
APPROVED

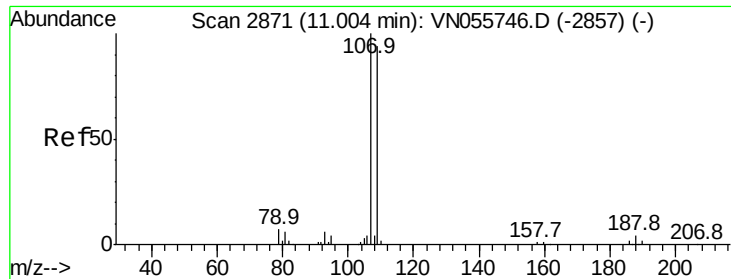
MMDadoda
5/24/2019 9:52:53 AM



#60
Dibromochloromethane
Concen: 19.569 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion: 129 Resp: 82378
Ion Ratio Lower Upper
129 100
127 78.6 38.1 114.3





#61

1,2-Dibromoethane

Concen: 20.247 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion:107 Resp: 75888

Ion Ratio Lower Upper

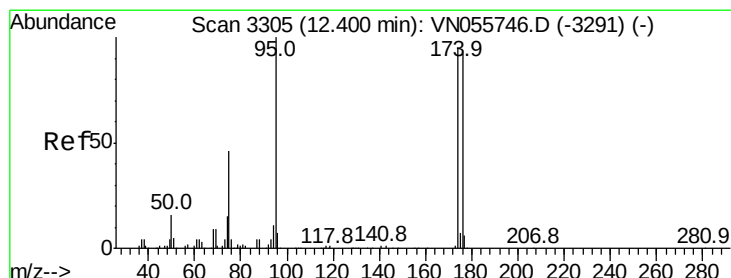
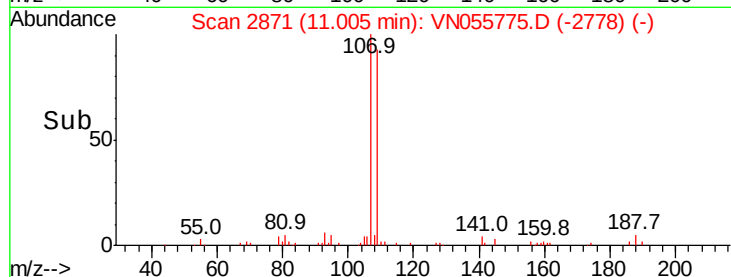
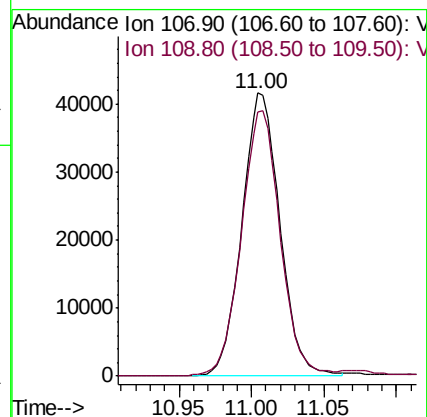
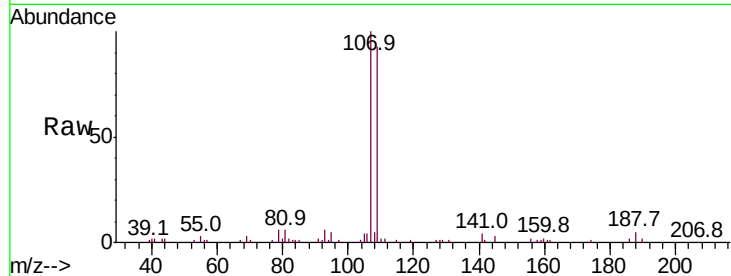
107 100

109 95.9 74.8 112.2

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:52:53 AM



#62

4-Bromofluorobenzene

Concen: 49.437 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

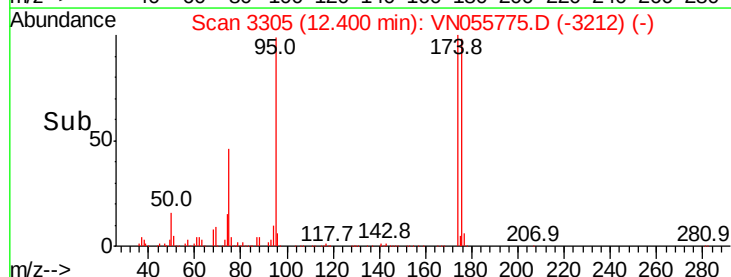
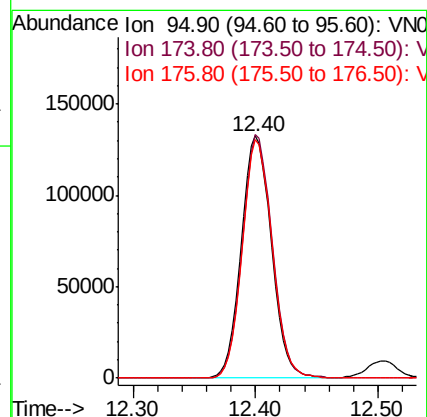
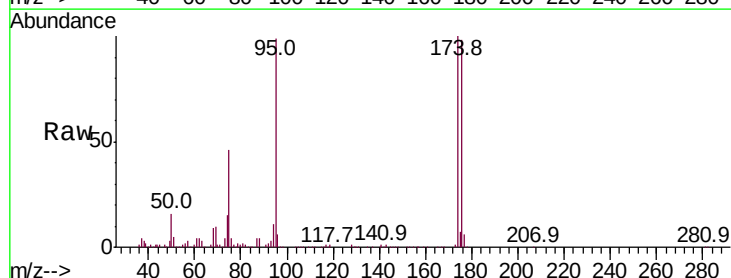
Tgt Ion: 95 Resp: 224487

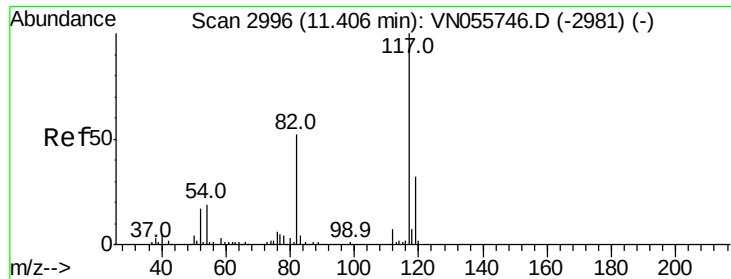
Ion Ratio Lower Upper

95 100

174 100.3 0.0 191.0

176 98.1 0.0 185.2





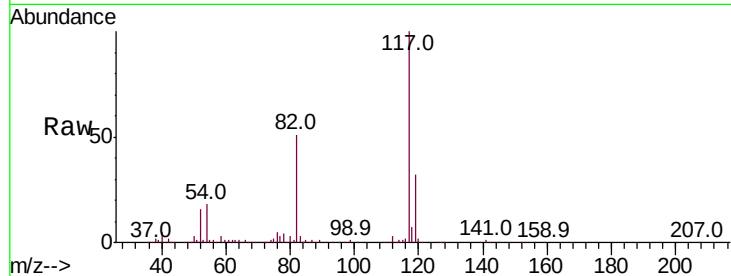
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampled :
VN0523MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	488851		
82	51.1		41.8	62.8
119	32.0		25.4	38.0

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM

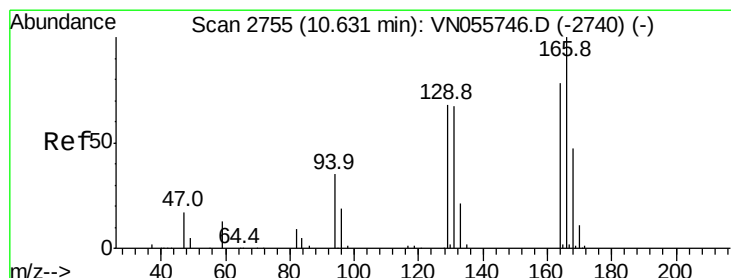
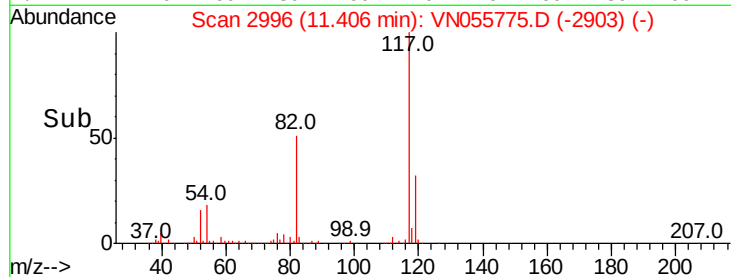
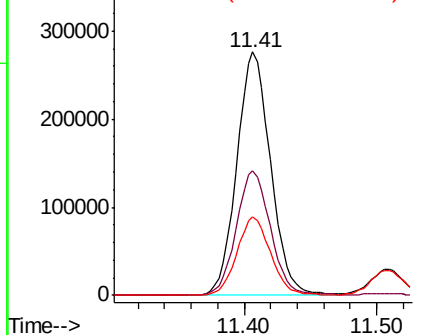


Abundance

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: 20.954 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	86395		
166	131.9		103.0	154.6
129	88.5		70.6	105.8
131	86.0		68.6	102.8

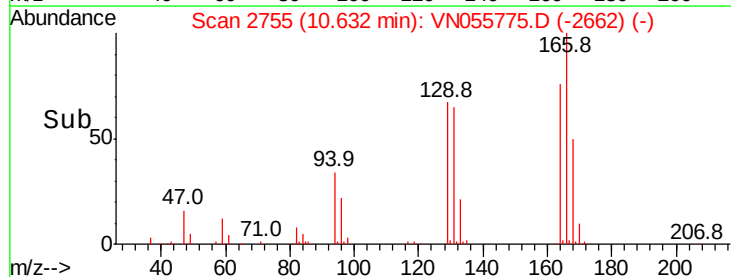
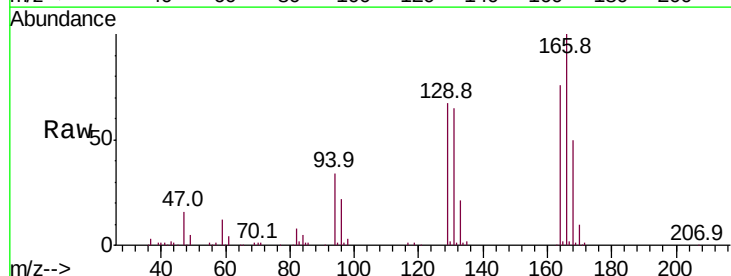
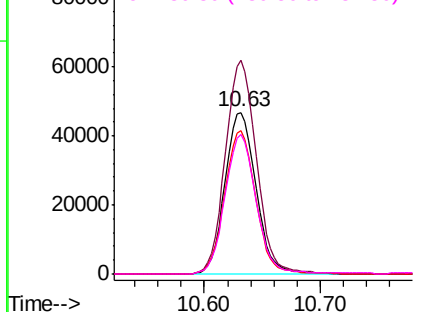
Abundance

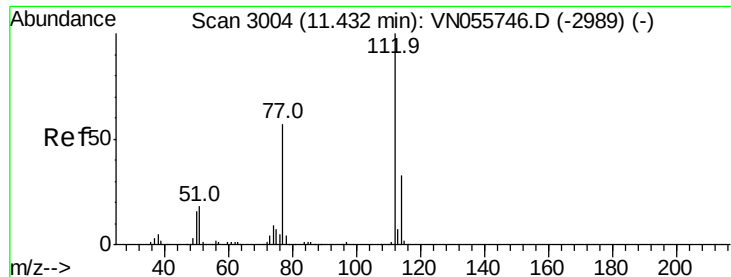
Ion 163.80 (163.50 to 164.50): V

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





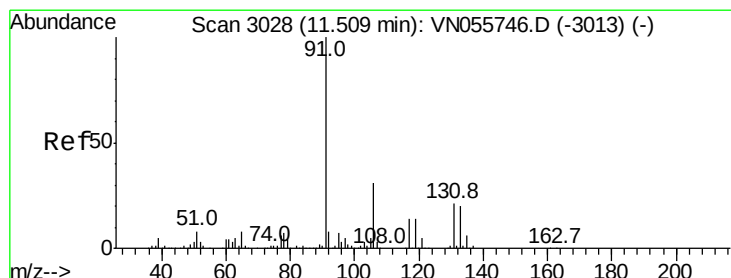
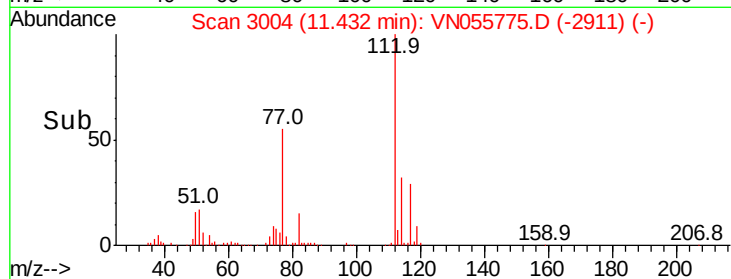
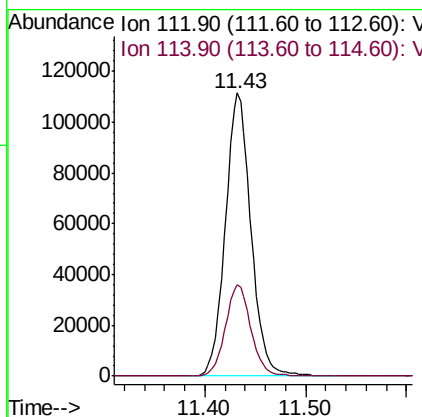
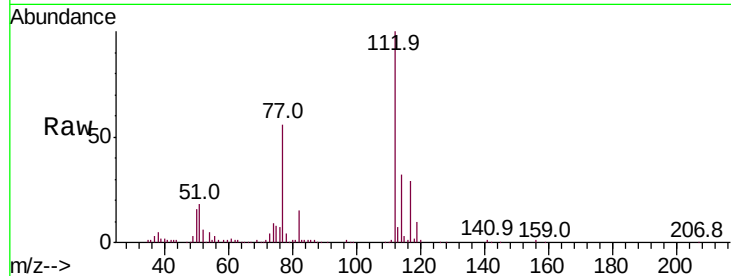
#65
Chlorobenzene
Concen: 20.184 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion:112 Resp: 197524
Ion Ratio Lower Upper
112 100
114 32.3 26.2 39.4

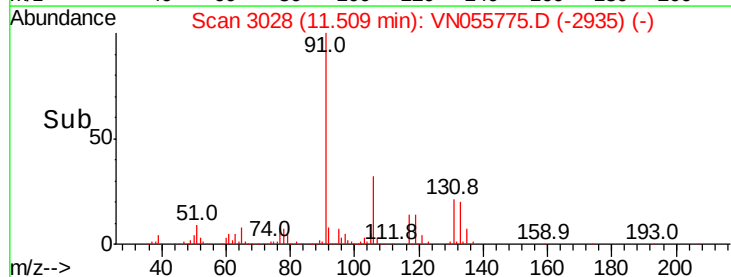
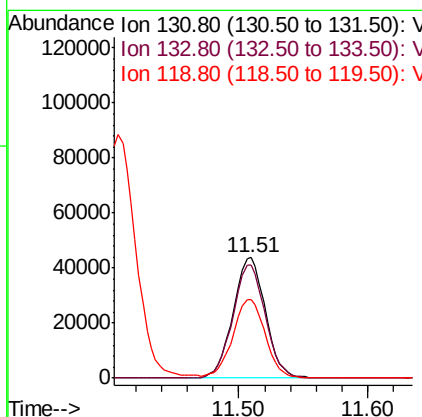
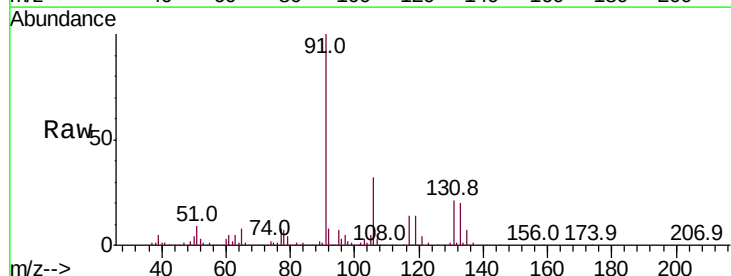
Manual Integrations
APPROVED

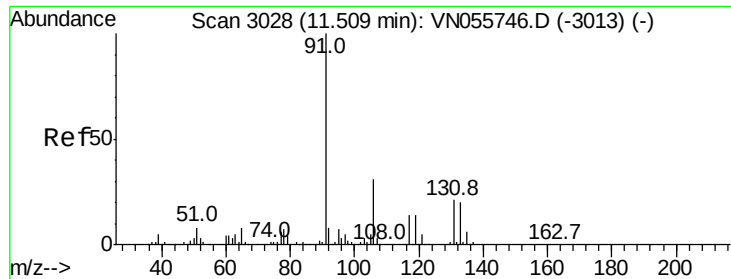
MMDadoda
5/24/2019 9:52:53 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.549 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion:131 Resp: 76300
Ion Ratio Lower Upper
131 100
133 94.7 48.0 144.0
119 65.1 33.1 99.5





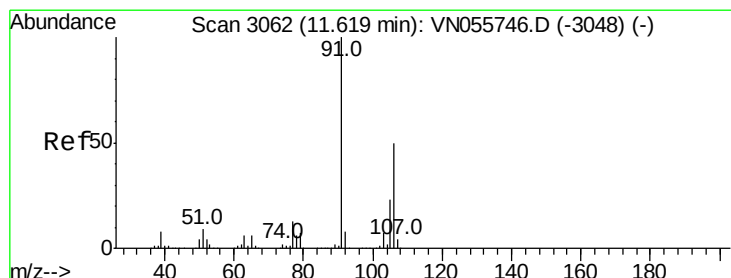
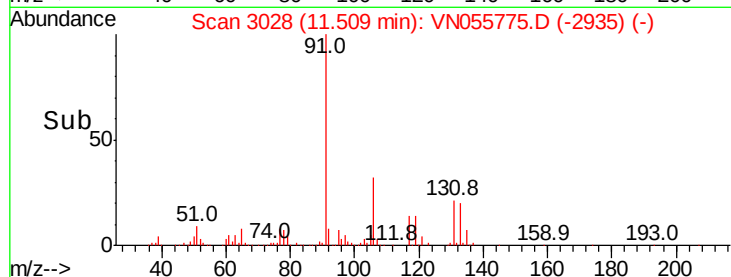
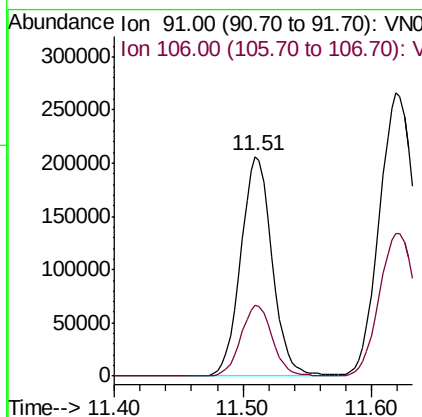
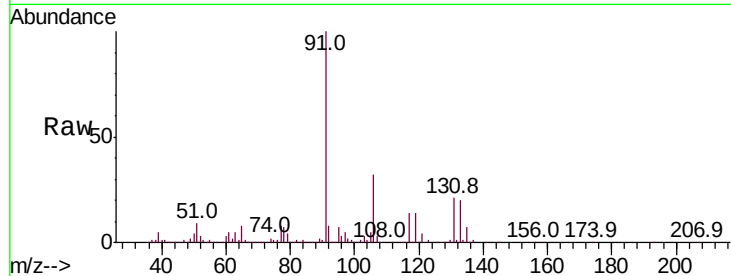
#67
Ethyl Benzene
Concen: 19.833 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion: 91 Resp: 348061
Ion Ratio Lower Upper
91 100
106 32.1 25.1 37.7

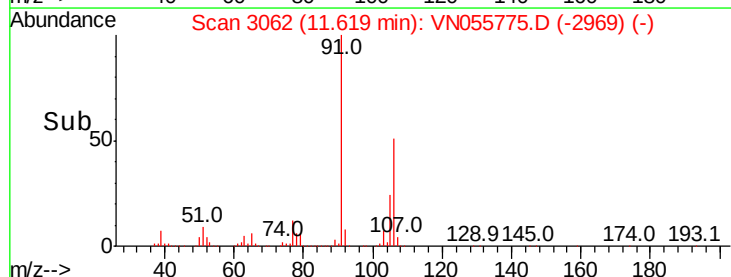
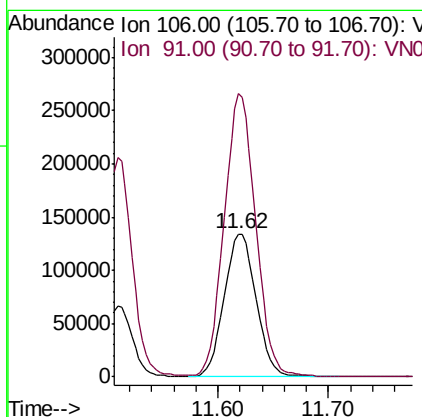
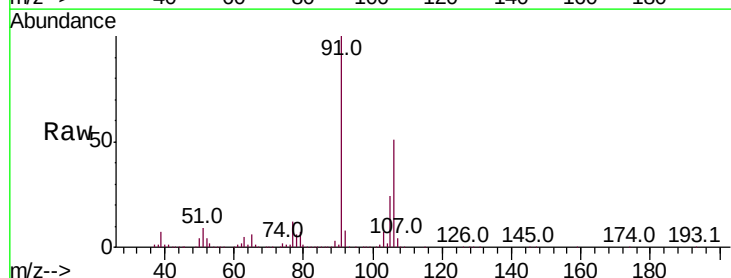
Manual Integrations
APPROVED

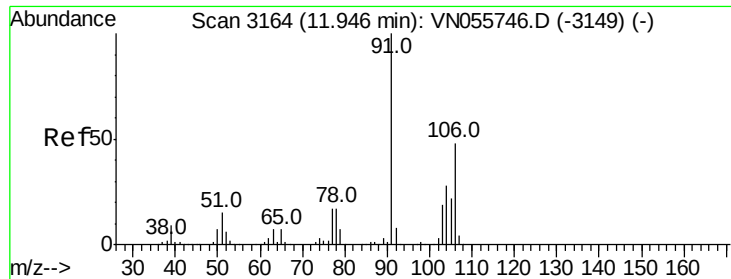
MMDadoda
5/24/2019 9:52:53 AM



#68
m/p-Xylenes
Concen: 40.451 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion: 106 Resp: 268372
Ion Ratio Lower Upper
106 100
91 195.8 159.3 238.9





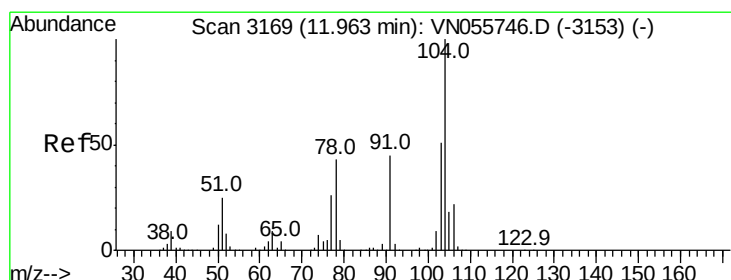
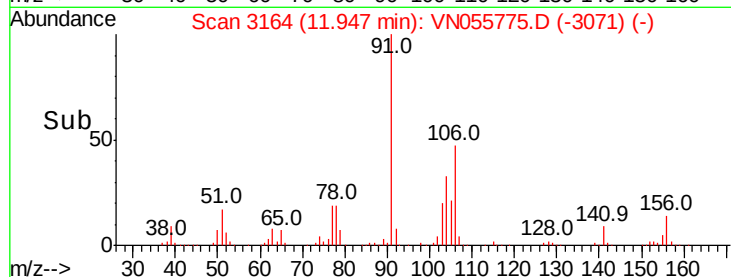
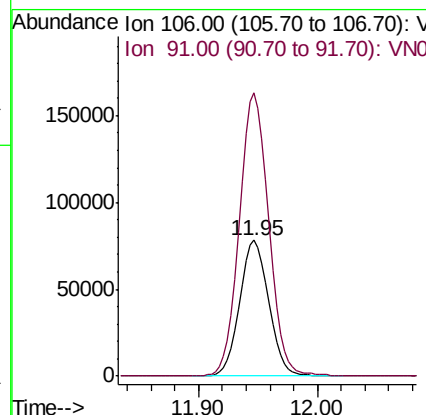
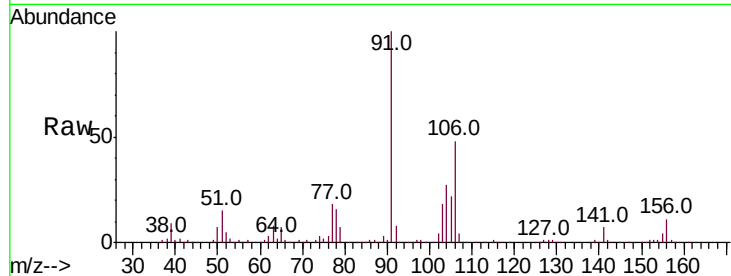
#69
o-Xylene
Concen: 20.173 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampled :
VN0523MBSD01

Tot Ion:106 Resp: 132786
Ion Ratio Lower Upper
106 100
91 208.6 104.7 314.1

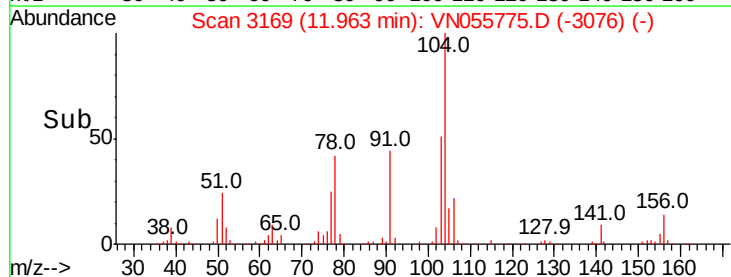
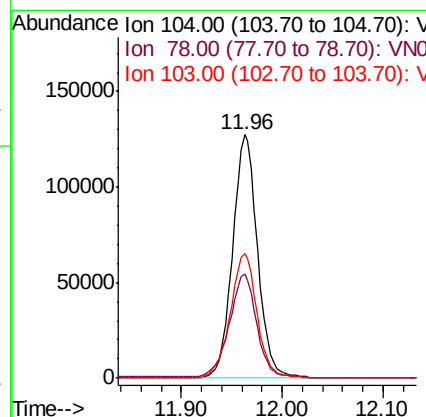
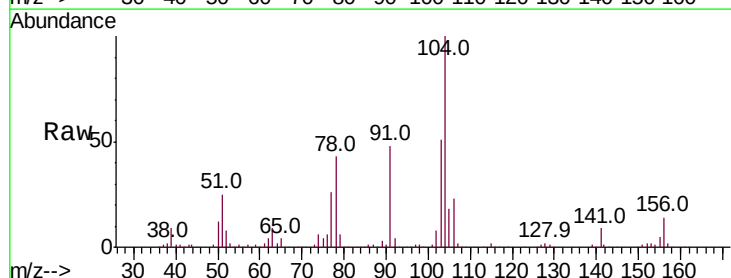
Manual Integrations
APPROVED

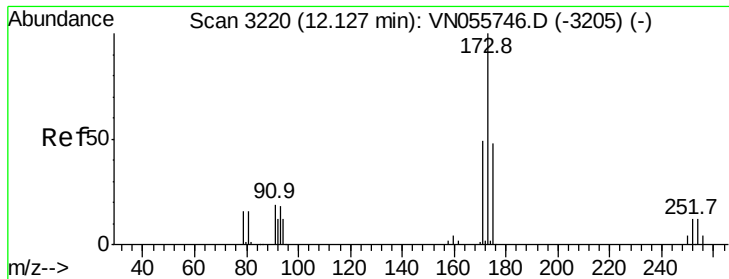
MMDadoda
5/24/2019 9:52:53 AM



#70
Styrene
Concen: 20.600 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion:104 Resp: 219591
Ion Ratio Lower Upper
104 100
78 47.2 37.8 56.6
103 55.0 44.2 66.2





#71

Bromoform

Concen: 20.091 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion:173 Resp: 66887

Ion Ratio Lower Upper

173 100

175 48.3 24.3 72.8

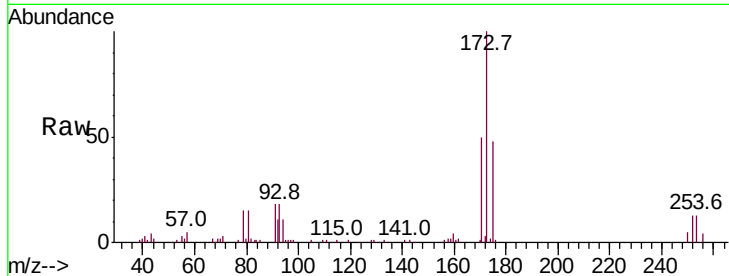
254 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

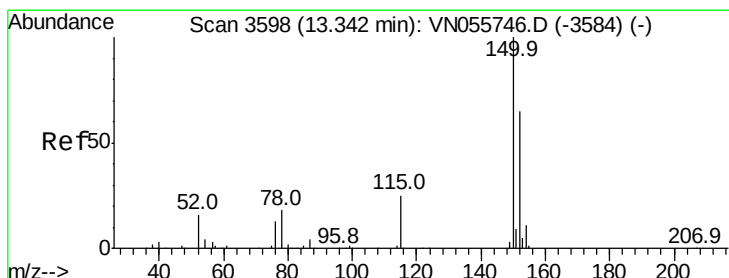
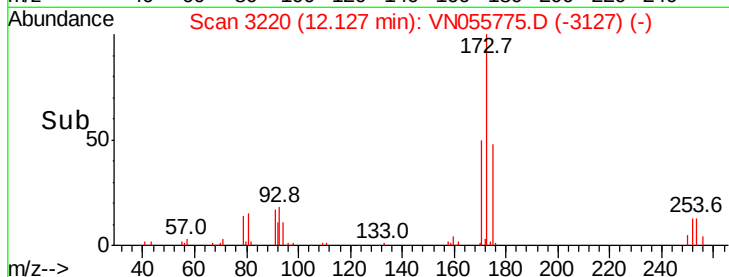
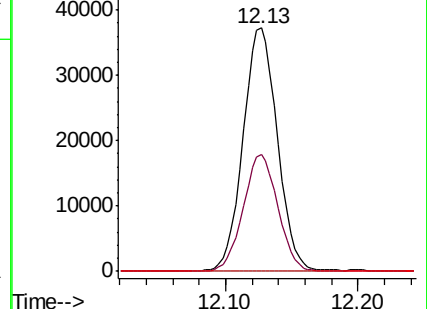
5/24/2019 9:52:53 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

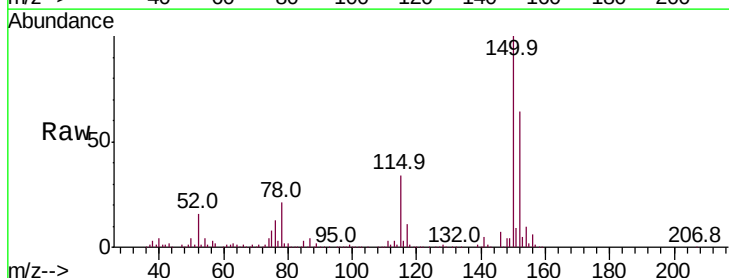
Tgt Ion:152 Resp: 224878

Ion Ratio Lower Upper

152 100

115 55.3 27.0 81.0

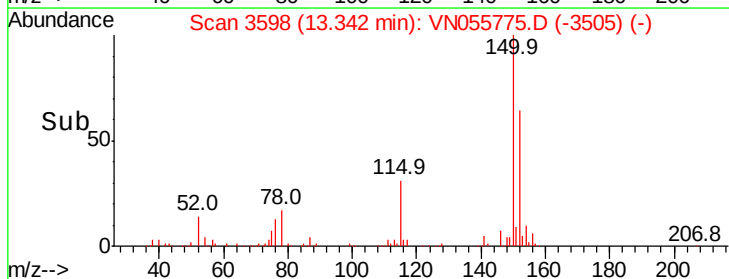
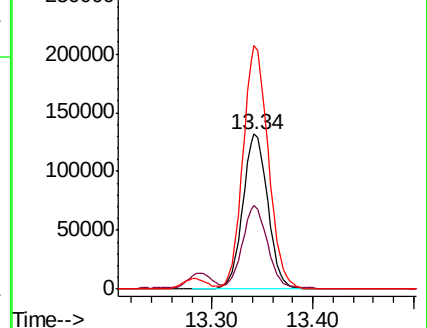
150 159.7 0.0 343.2

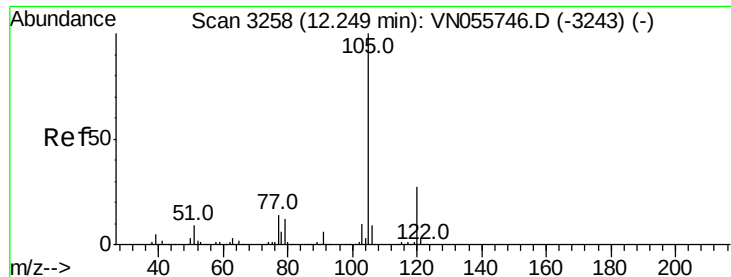


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





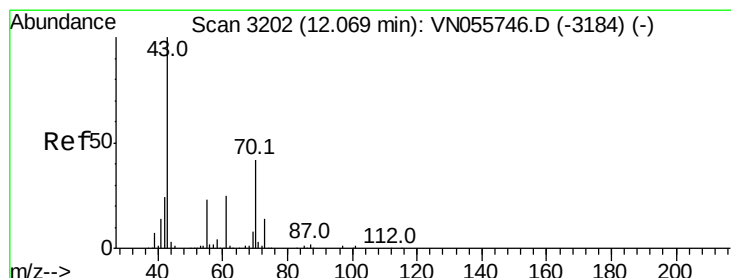
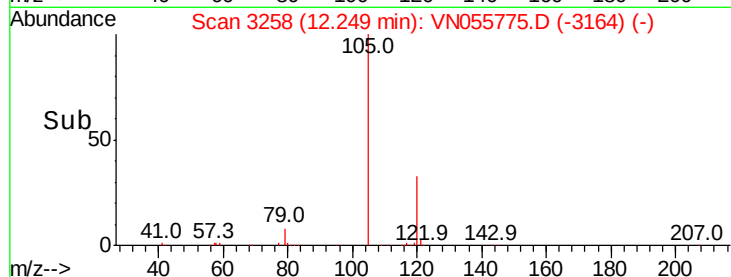
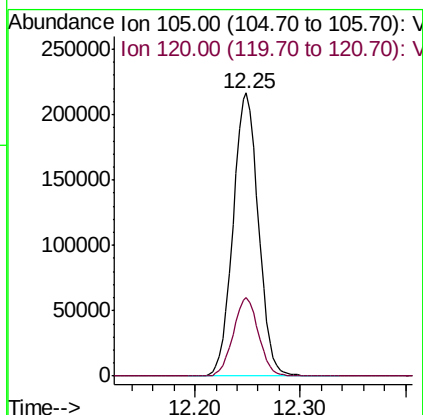
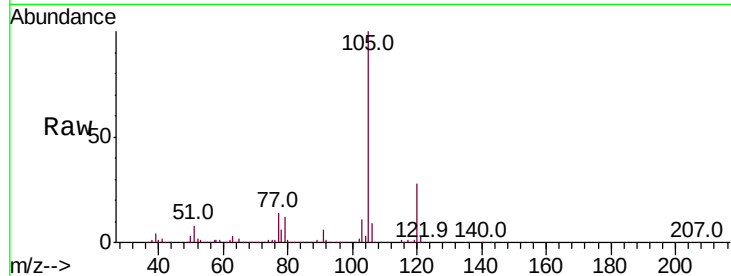
#73
Isopropylbenzene
Concen: 20.972 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.5	13.6	40.7

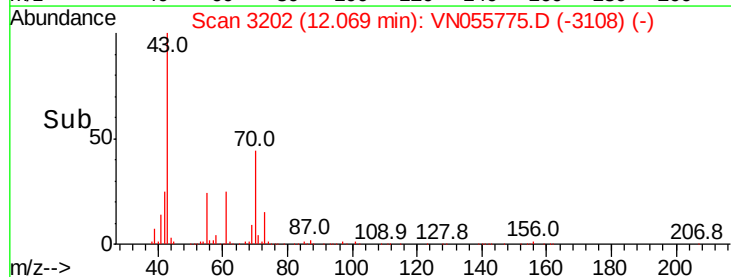
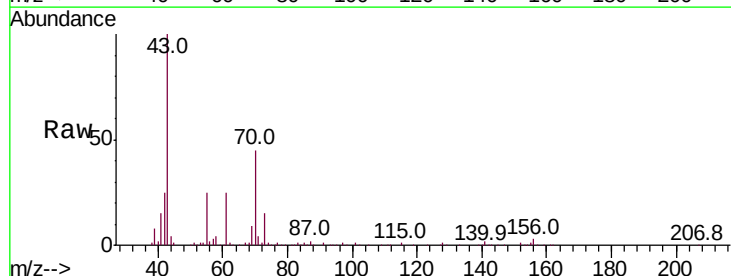
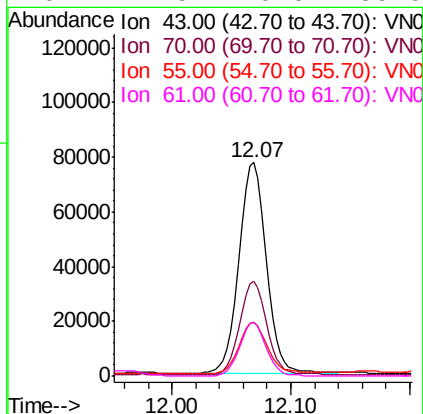
Manual Integrations
APPROVED

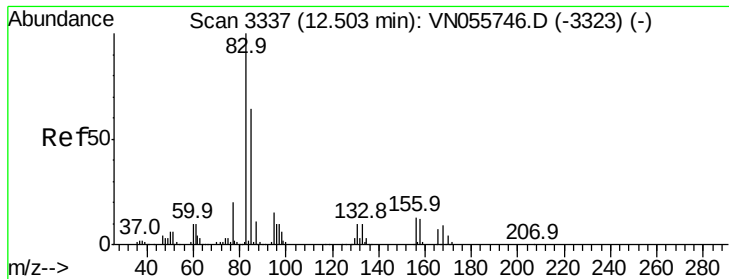
MMDadoda
5/24/2019 9:52:53 AM



#74
N-ethyl acetate
Concen: 18.923 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.5	34.0	51.0
55	25.8	18.6	28.0
61	24.5	20.0	30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.331 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

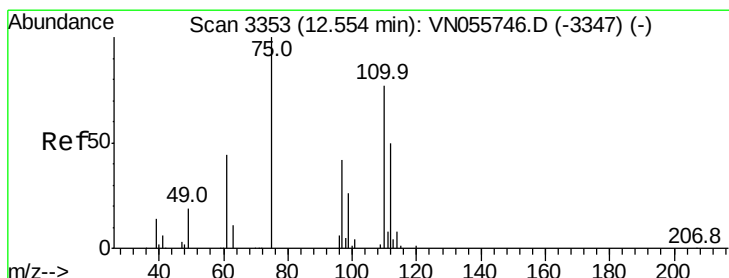
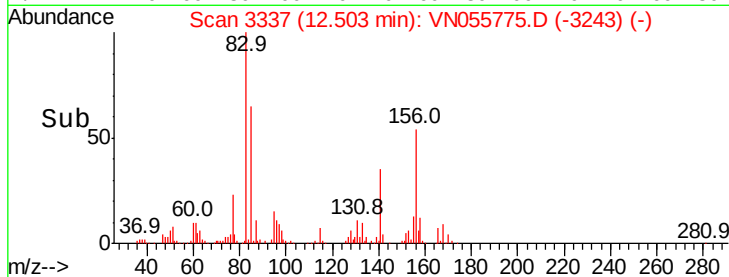
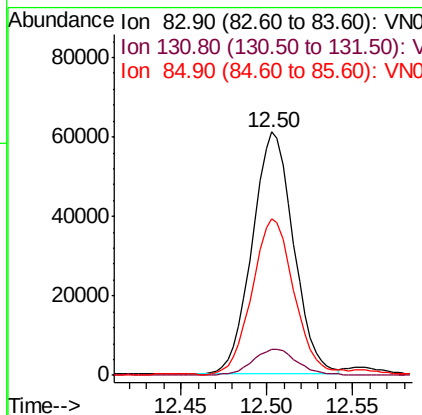
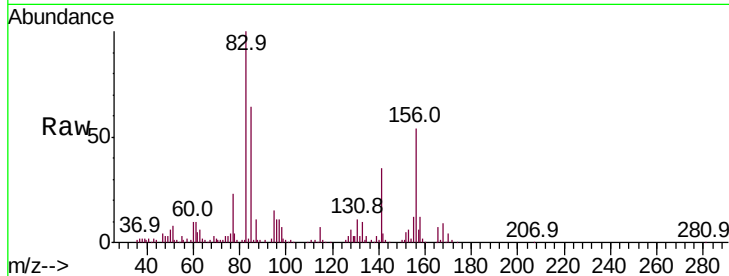
ClientSampleId :

VN0523MBSD01

Tot Ion:	83	Resp:	101206
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.4	16.2
85	65.5	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



#76

1,2,3-Trichloropropane

Concen: 20.483 ug/l m

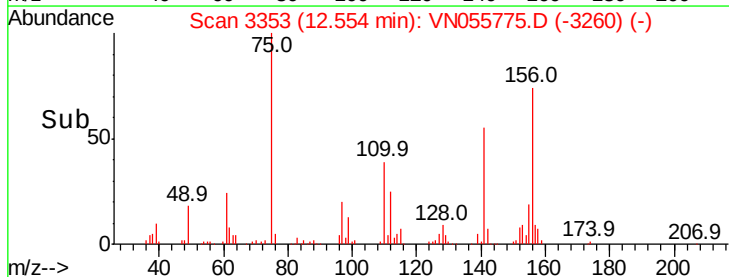
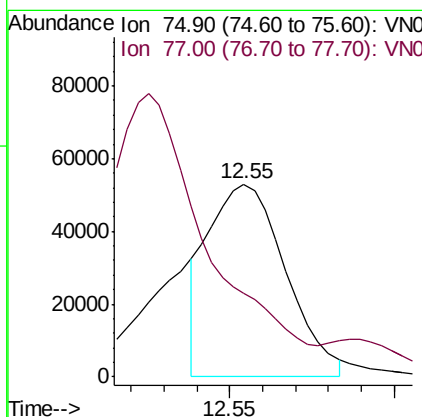
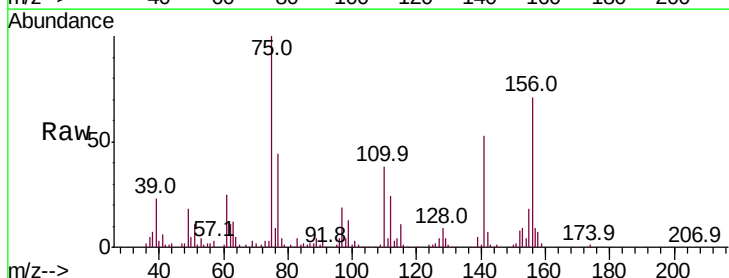
RT: 12.55 min Scan# 3353

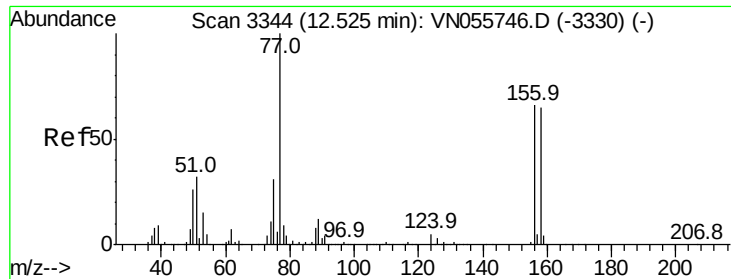
Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion:	75	Resp:	86512
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 66.977 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

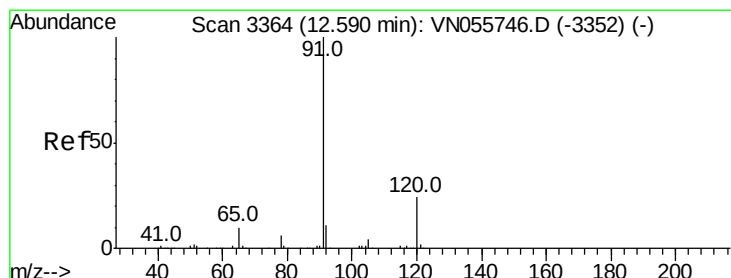
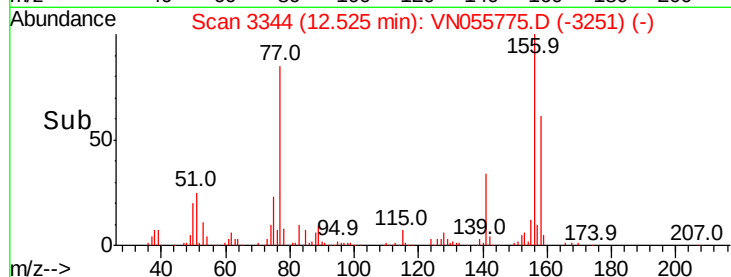
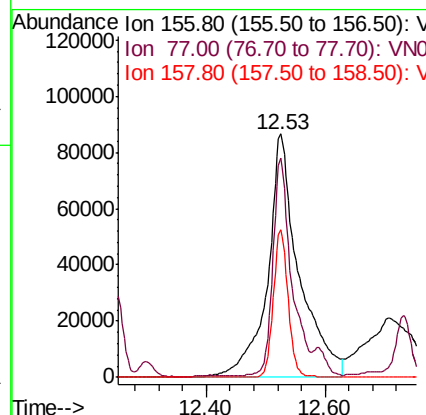
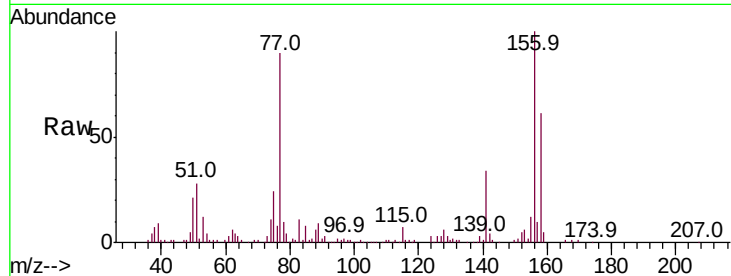
ClientSampleId :

VN0523MBSD01

Tot Ion:	156	Resp:	321403
Ion Ratio	Lower	Upper	
156	100		
77	53.8	90.8	272.5#
158	28.9	49.3	147.8#

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



#78

n-propylbenzene

Concen: 19.475 ug/l

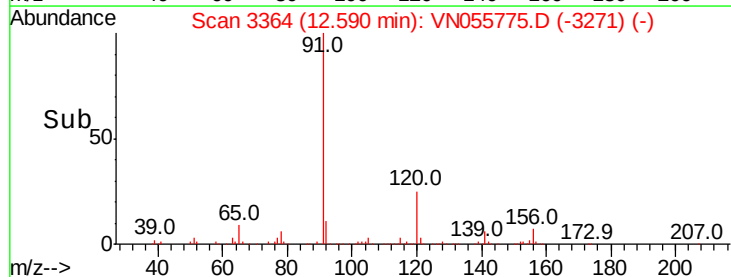
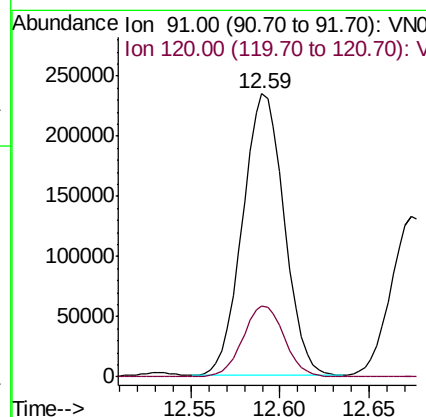
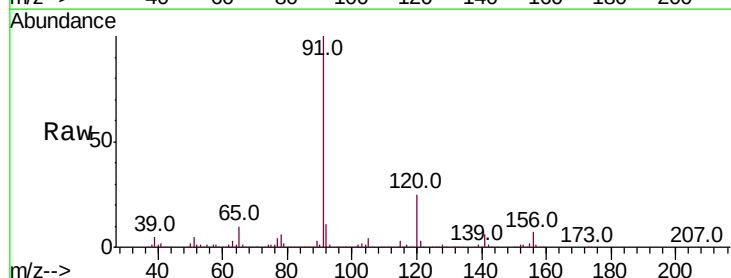
RT: 12.59 min Scan# 3364

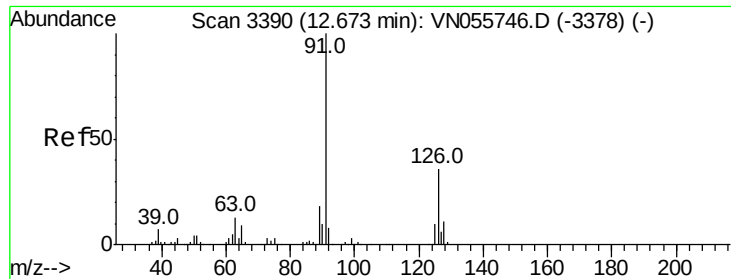
Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion:	91	Resp:	380629
Ion Ratio	Lower	Upper	
91	100		
120	25.1	12.0	36.0





#79

2-Chlorotoluene

Concen: 19.566 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion: 91 Resp: 222319

Ion Ratio Lower Upper

91 100

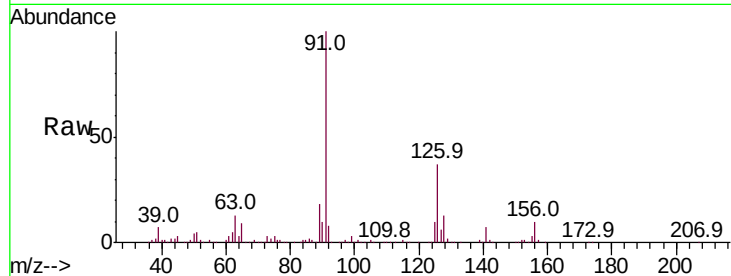
126 38.1 18.1 54.4

Manual Integrations

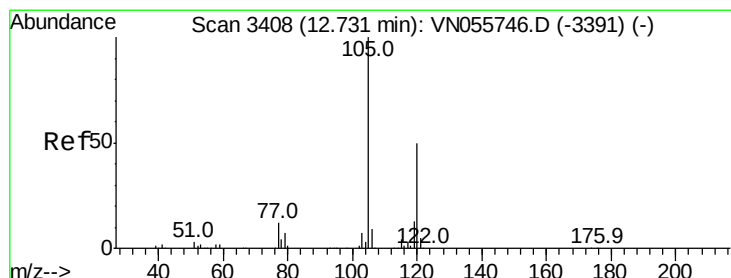
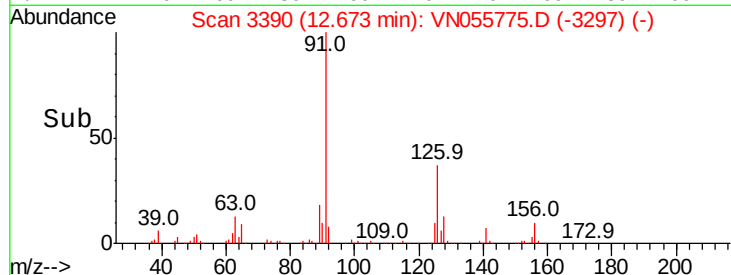
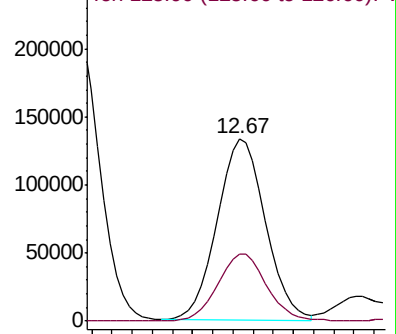
APPROVED

MMDadoda

5/24/2019 9:52:53 AM



Abundance Ion 91.00 (90.70 to 91.70): VN055746.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.413 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055775.D

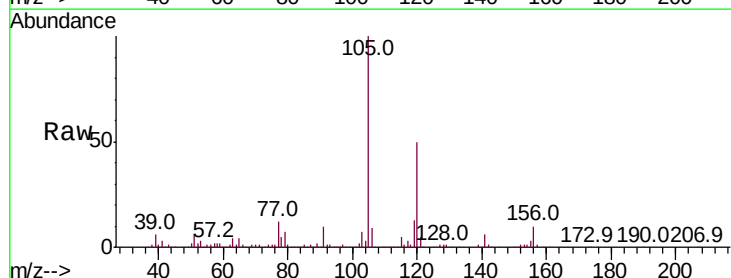
Acq: 24 May 2019 00:18

Tgt Ion:105 Resp: 295251

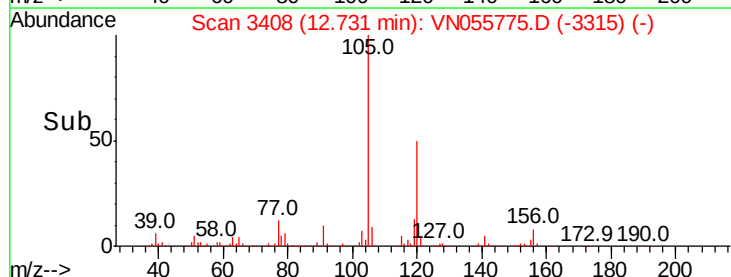
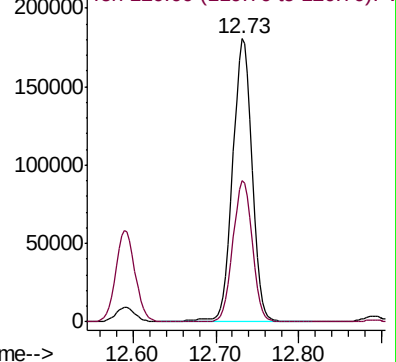
Ion Ratio Lower Upper

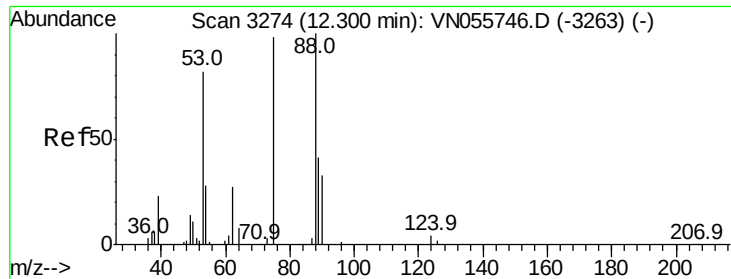
105 100

120 49.7 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN055746.D (-3391) (-)





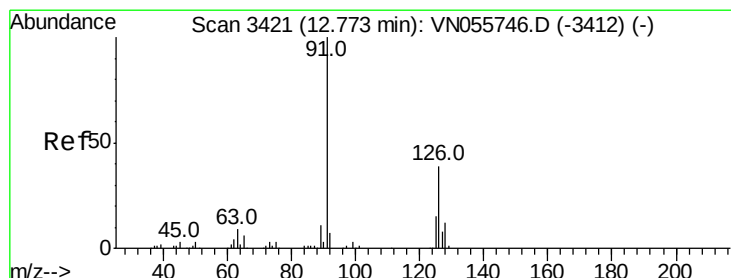
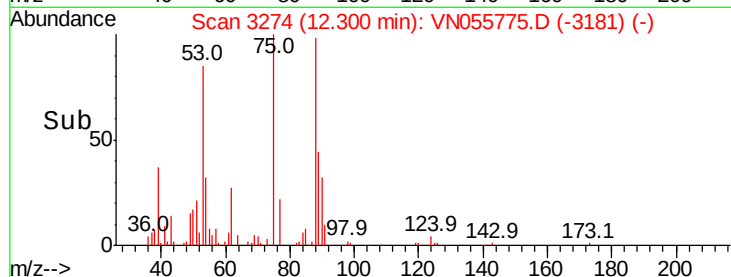
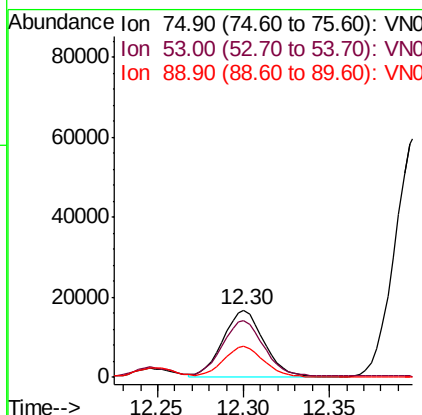
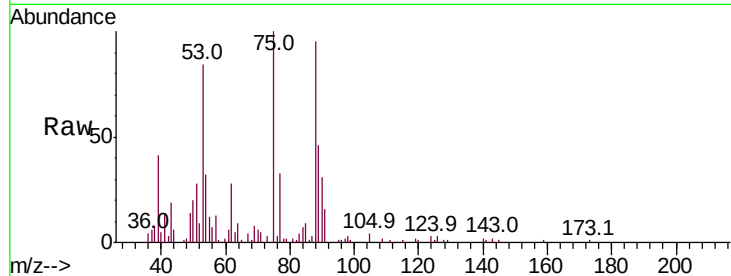
#81
trans-1,4-Dichloro-2-butene
Concen: 16.856 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	82.0	68.1	102.1
89	45.6	36.9	55.3

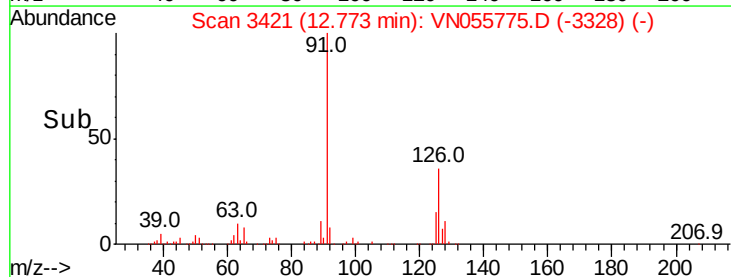
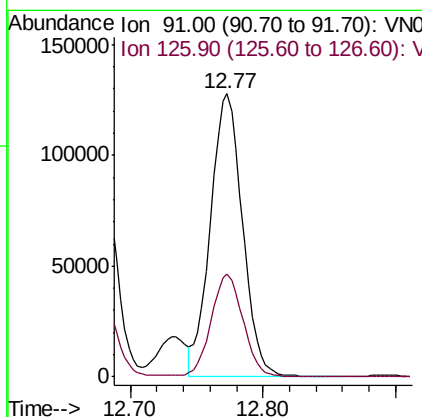
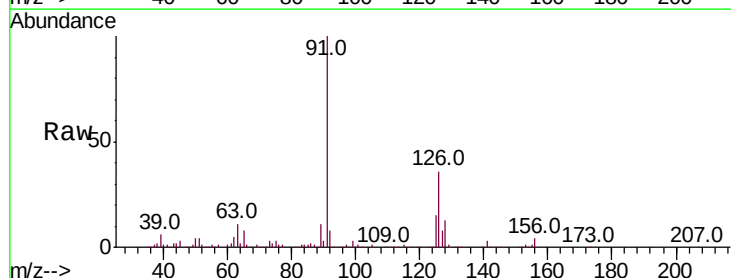
Manual Integrations
APPROVED

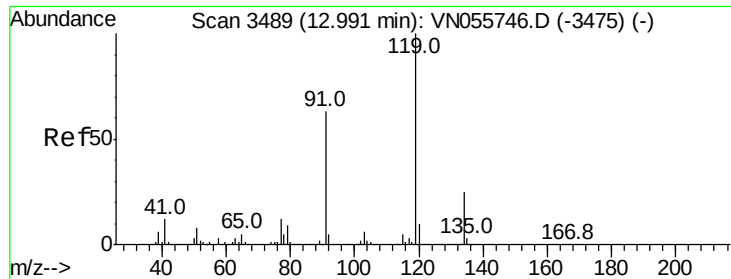
MMDadoda
5/24/2019 9:52:53 AM



#82
4-Chlorotoluene
Concen: 18.576 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.3	17.8	53.3





#83

tert-Butylbenzene

Concen: 20.086 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

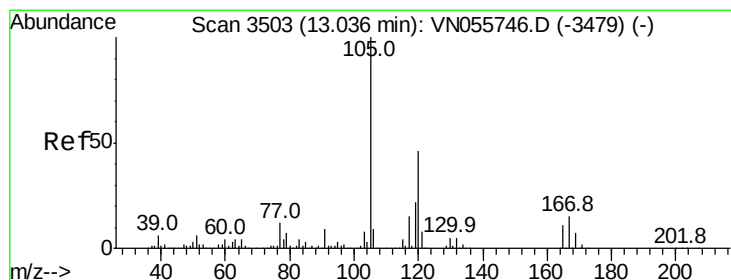
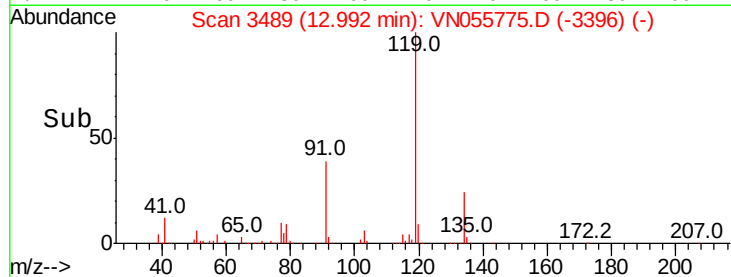
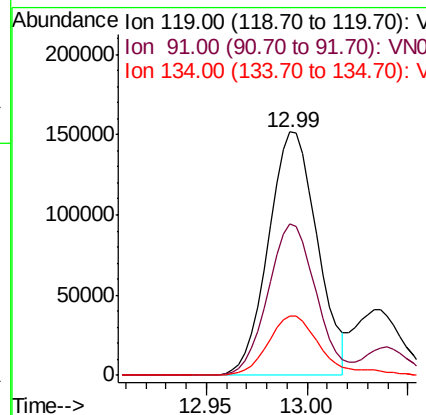
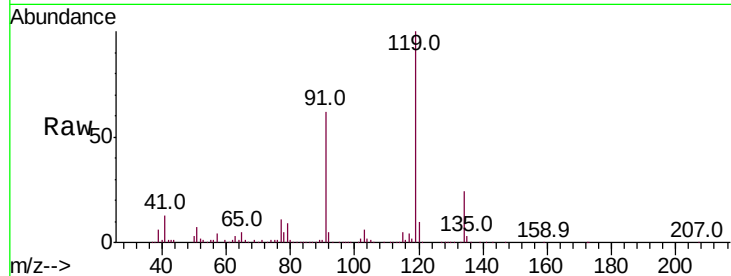
ClientSampleId :

VN0523MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	254848		
91	60.6	30.9	92.8	
134	26.4	13.3	39.8	

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



#84

1,2,4-Trimethylbenzene

Concen: 20.150 ug/l

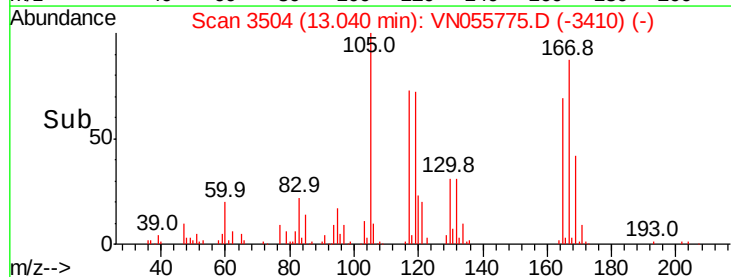
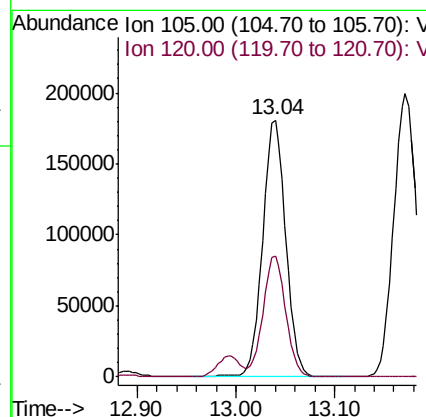
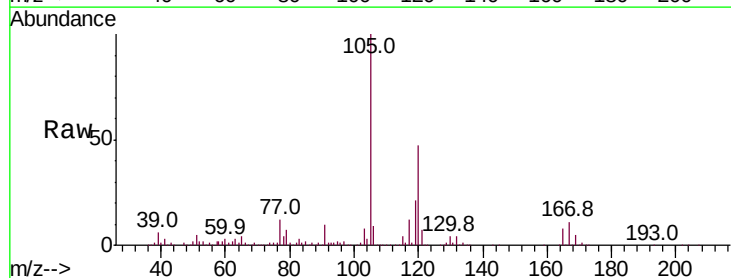
RT: 13.04 min Scan# 3504

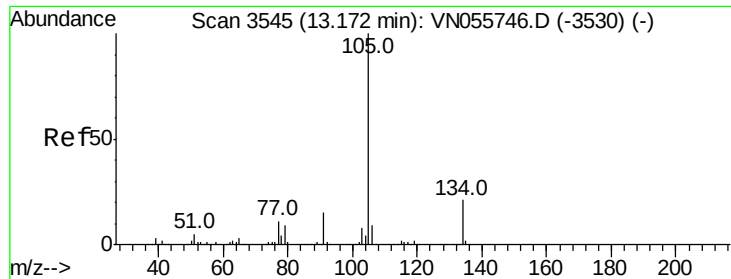
Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	289653		
120	46.5	23.0	69.0	





#85

sec-Butylbenzene

Concen: 19.741 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBSD01

Tot Ion:105 Resp: 320481

Ion Ratio Lower Upper

105 100

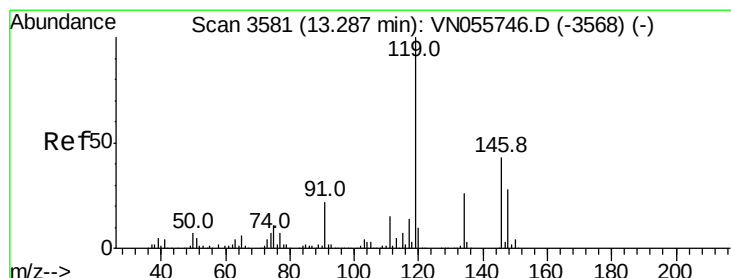
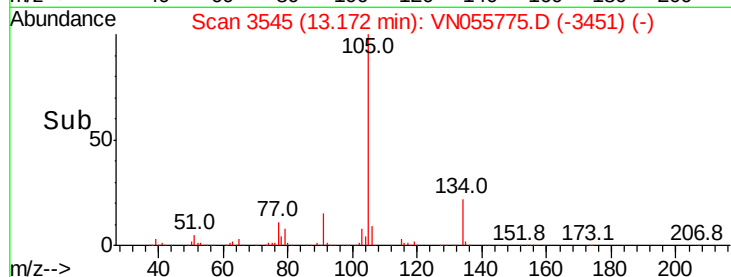
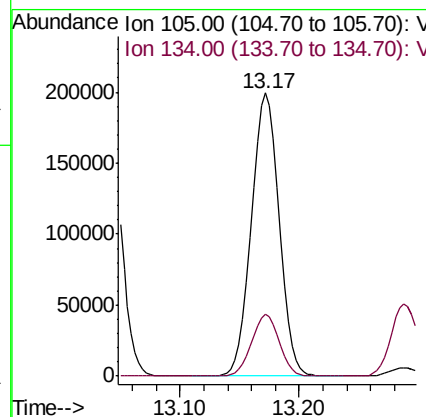
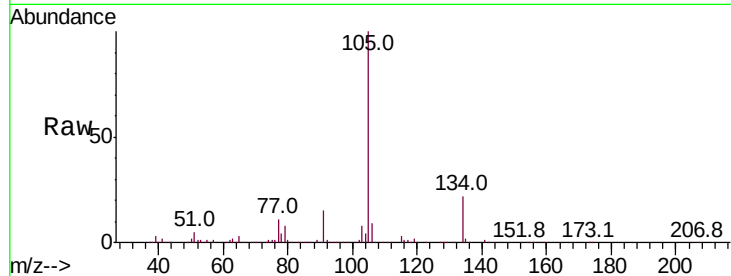
134 21.9 10.4 31.2

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:52:53 AM



#86

p-Isopropyltoluene

Concen: 18.968 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

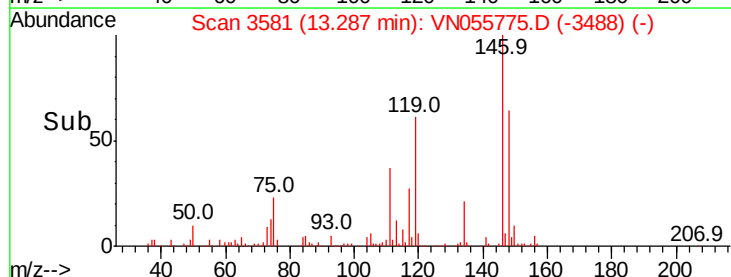
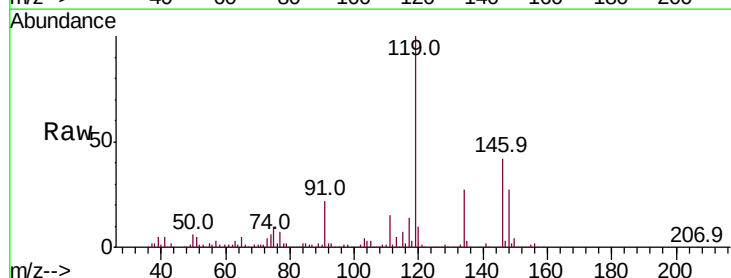
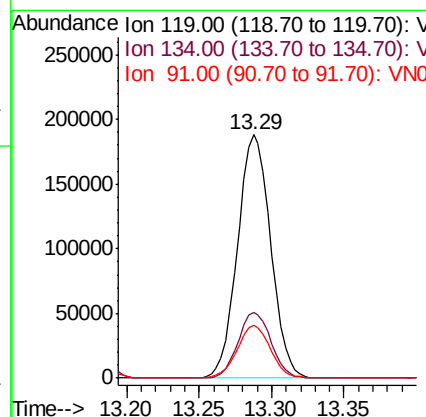
Tgt Ion:119 Resp: 296219

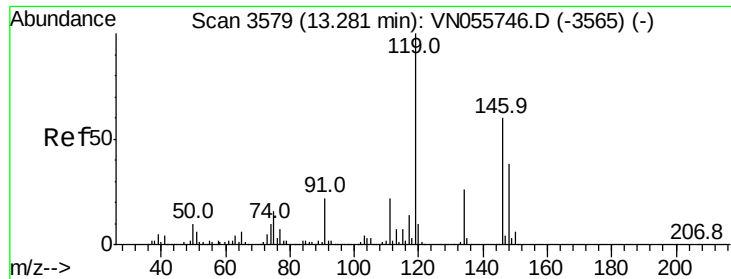
Ion Ratio Lower Upper

119 100

134 27.2 13.4 40.1

91 21.3 10.9 32.9





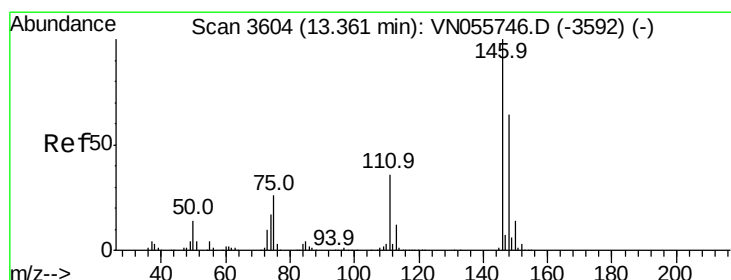
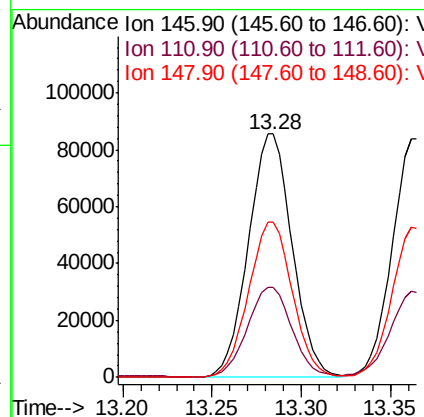
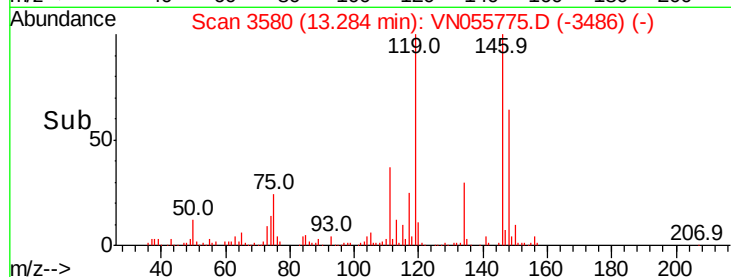
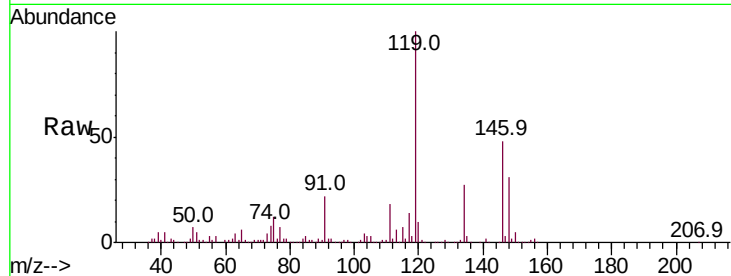
#87
 1,3-Dichlorobenzene
 Concen: 19.274 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.5	55.5
148	64.0	32.0	96.2

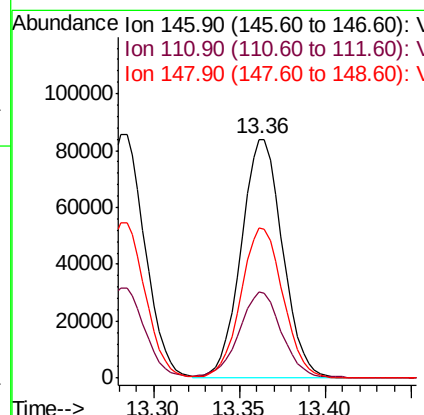
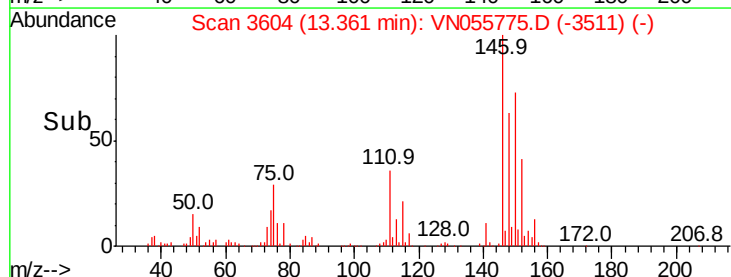
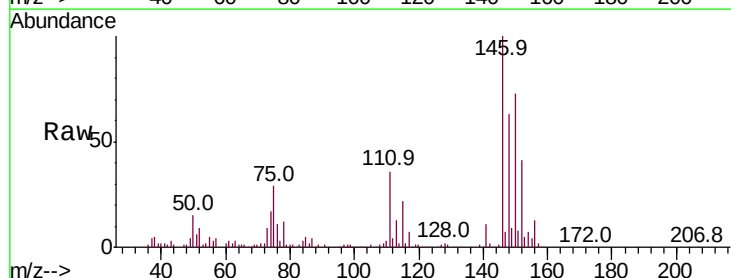
Manual Integrations
 APPROVED

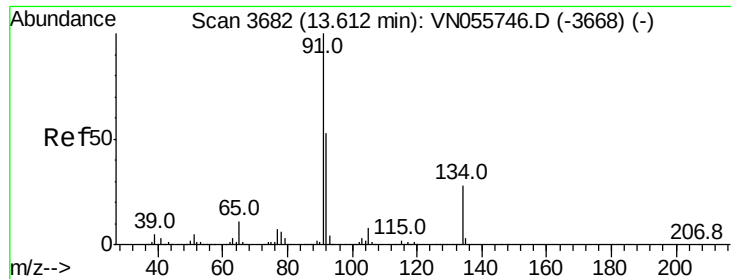
MMDadoda
 5/24/2019 9:52:53 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.401 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	18.1	54.4
148	64.2	32.1	96.5





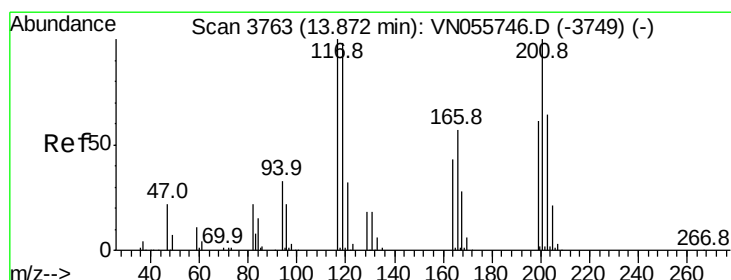
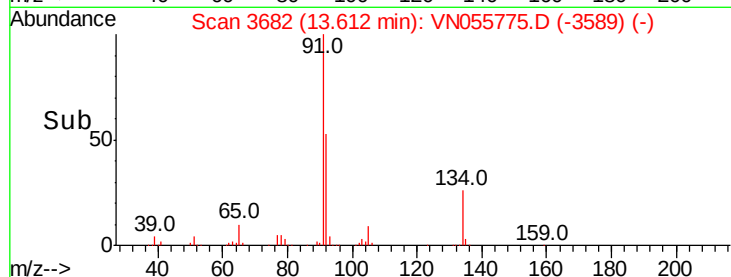
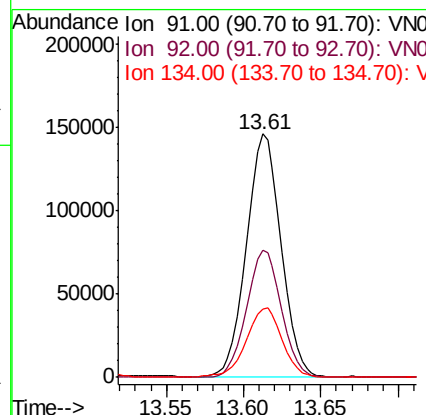
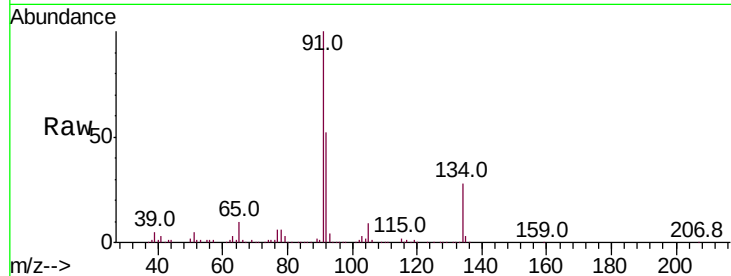
#89
n-Butylbenzene
Concen: 18.864 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	52.6	26.4	79.0	
134	29.5	13.9	41.7	

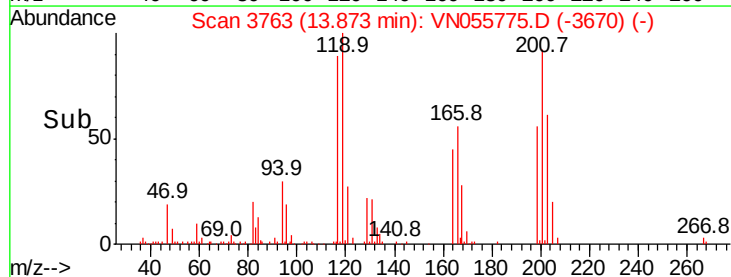
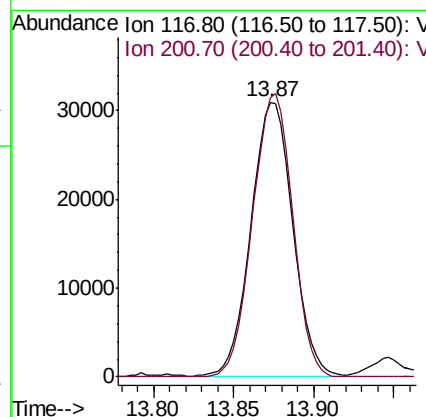
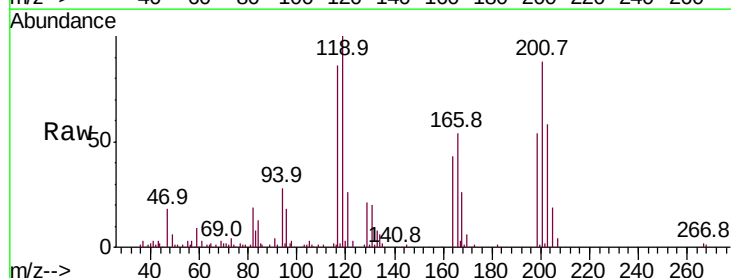
Manual Integrations
APPROVED

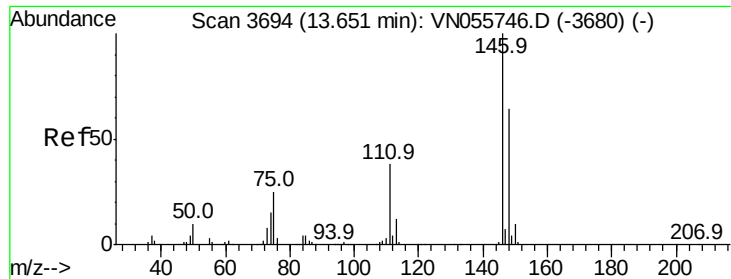
MMDadoda
5/24/2019 9:52:53 AM



#90
Hexachloroethane
Concen: 18.715 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055775.D
Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	98.5	50.0	150.0	





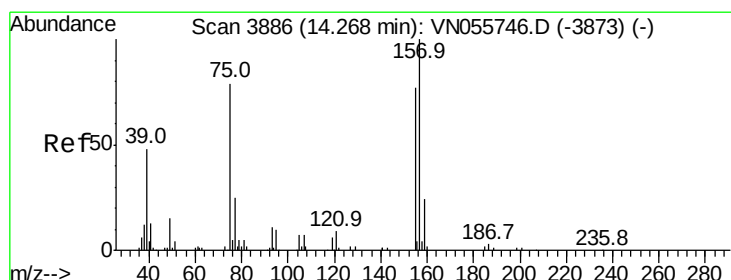
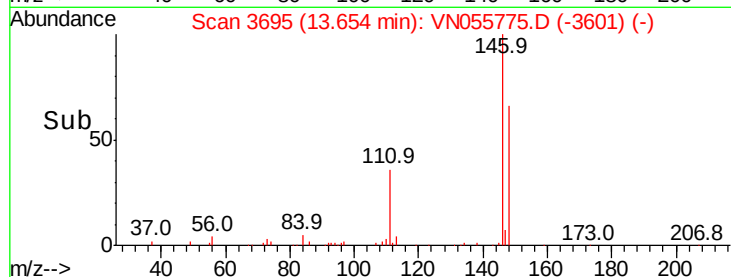
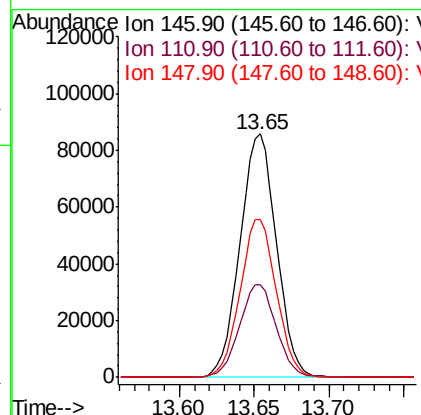
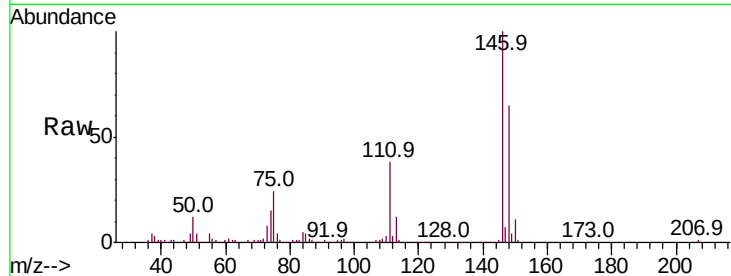
#91
 1,2-Dichlorobenzene
 Concen: 19.178 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	145383		
111	38.0	19.1	57.5	
148	64.4	31.9	95.9	

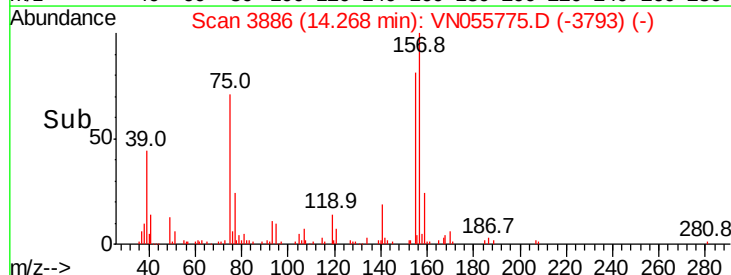
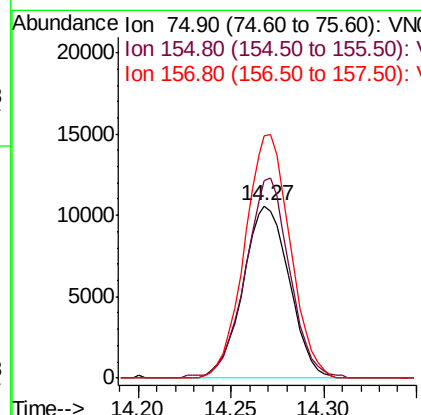
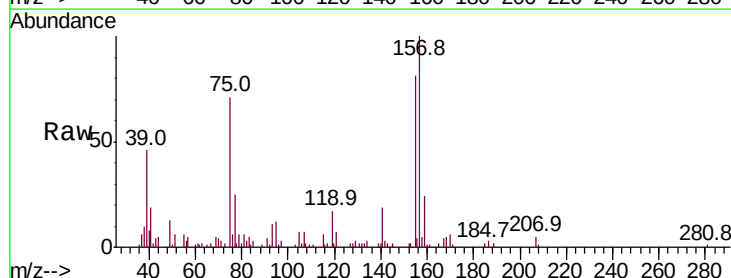
Manual Integrations
 APPROVED

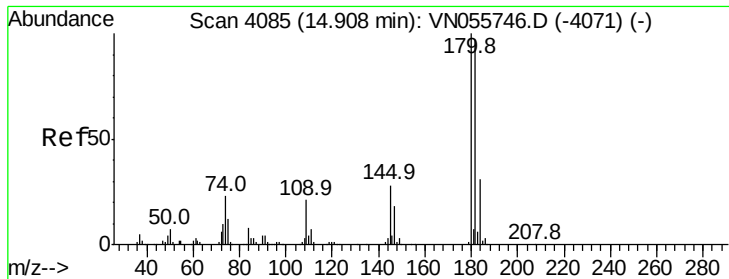
MMDadoda
 5/24/2019 9:52:53 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.393 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055775.D
 Acq: 24 May 2019 00:18

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	18327		
155	111.6	50.0	150.1	
157	138.6	64.8	194.3	





#93

1,2,4-Trichlorobenzene

Concen: 20.478 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

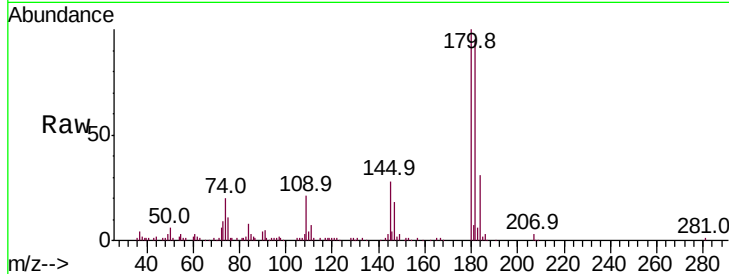
ClientSampleId :

VN0523MBSD01

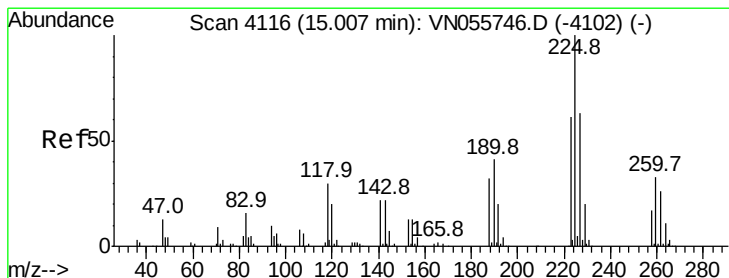
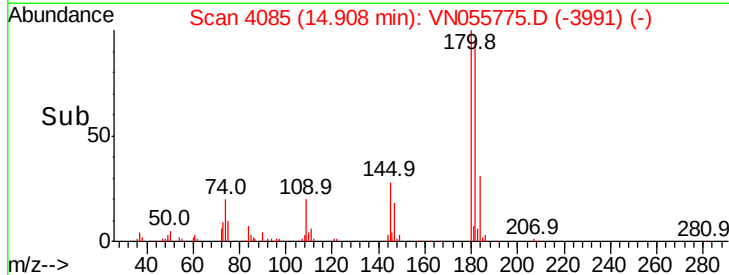
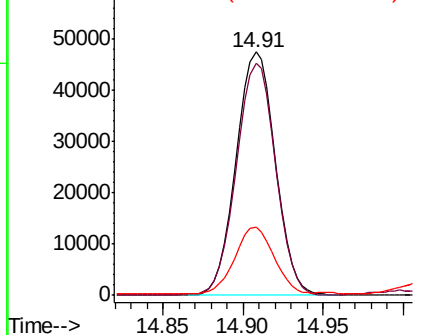
Tot Ion:	180	Resp:	79219
Ion Ratio	Lower	Upper	
180	100		
182	95.7	48.3	144.9
145	27.5	14.0	41.9

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



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



#94

Hexachlorobutadiene

Concen: 20.465 ug/l

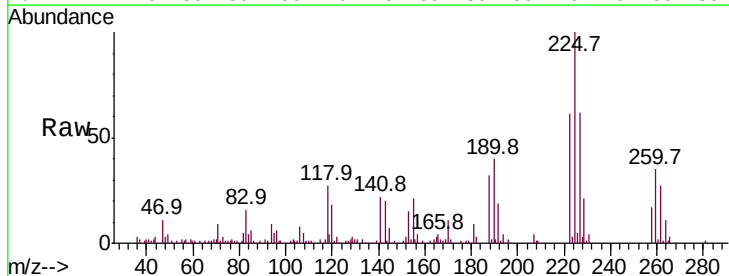
RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

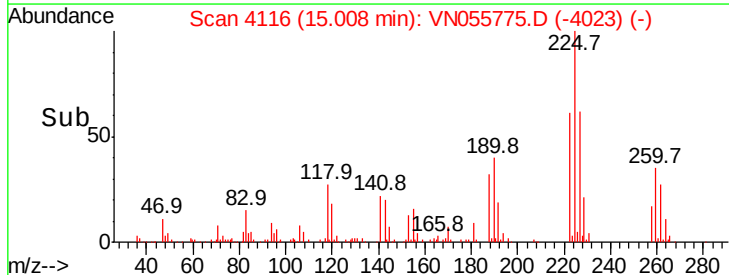
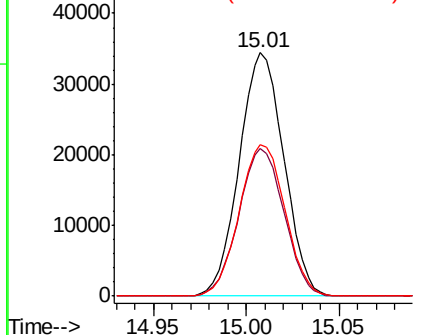
Lab File: VN055775.D

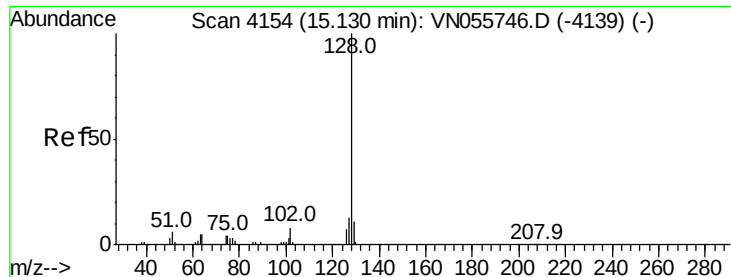
Acq: 24 May 2019 00:18

Tgt Ion:	225	Resp:	57477
Ion Ratio	Lower	Upper	
225	100		
223	61.3	30.9	92.7
227	64.0	31.6	94.7



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





#95

Naphthalene

Concen: 25.479 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Instrument :

MSVOA_N

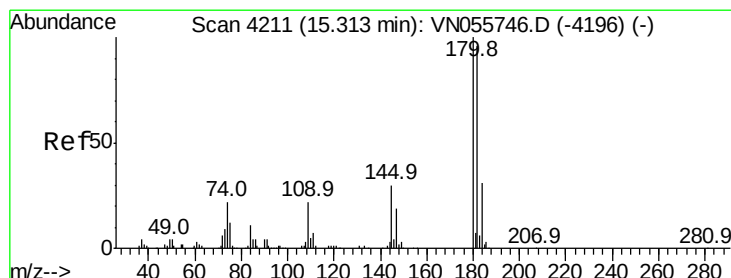
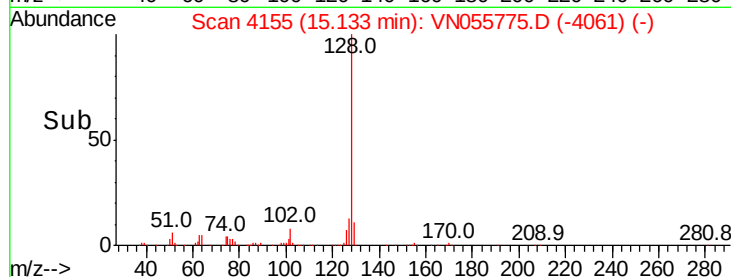
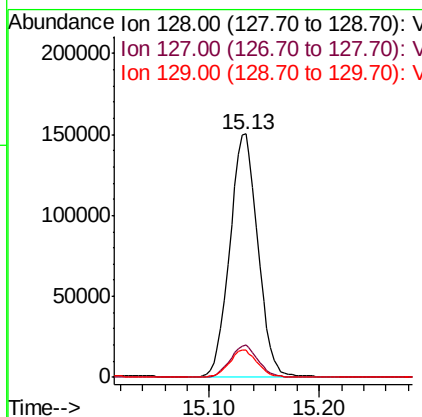
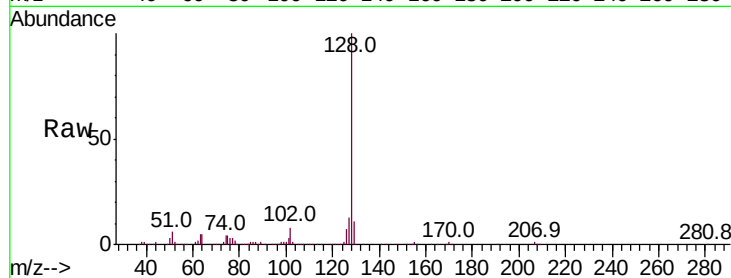
ClientSampleId :

VN0523MBSD01

Tot Ion:128	Resp:	265046
Ion Ratio	Lower	Upper
128 100		
127 13.4	10.3	15.5
129 11.4	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:52:53 AM



#96

1,2,3-Trichlorobenzene

Concen: 21.178 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055775.D

Acq: 24 May 2019 00:18

Tgt Ion:180	Resp:	84868
Ion Ratio	Lower	Upper
180 100		
182 96.9	47.9	143.7
145 31.6	14.9	44.7

