

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055745.D
 Acq On : 23 May 2019 10:10
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda

5/24/2019 9:20:57 AM

Quant Time: May 24 06:02:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 05:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	340354	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	500917	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	437348	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	185405	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	78649	21.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.54%	
35) Dibromofluoromethane	7.59	113	69494	21.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.76%	
50) Toluene-d8	10.09	98	263378	21.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.74%	
62) 4-Bromofluorobenzene	12.40	95	87285	20.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	45706	17.781	ug/l	99
3) Chloromethane	2.06	50	65674	18.943	ug/l	99
4) Vinyl Chloride	2.19	62	69026	18.458	ug/l	99
5) Bromomethane	2.54	94	46664	19.490	ug/l	98
6) Chloroethane	2.69	64	43795	20.851	ug/l	97
7) Trichlorofluoromethane	3.01	101	91653	19.118	ug/l	99
8) Diethyl Ether	3.40	74	40734	20.883	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	56967	19.445	ug/l	99
10) Methyl Iodide	3.94	142	85604	20.132	ug/l	99
11) Tert butyl alcohol	4.81	59	80526	115.883	ug/l	98
12) 1,1-Dichloroethene	3.72	96	59085	19.161	ug/l	97
13) Acrolein	3.60	56	49592	124.075	ug/l	99
14) Allyl chloride	4.31	41	104117	20.886	ug/l	99
15) Acrylonitrile	4.99	53	159734	103.479	ug/l	100
16) Acetone	3.82	43	170789	111.916	ug/l	96
17) Carbon Disulfide	4.04	76	164155	19.163	ug/l	99
18) Methyl Acetate	4.33	43	66781	20.471	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	199903	19.646	ug/l	99
20) Methylene Chloride	4.55	84	67568	19.572	ug/l	98
21) trans-1,2-Dichloroethene	5.03	96	63518	19.363	ug/l	98
22) Diisopropyl ether	5.95	45	197585	19.935	ug/l	96
23) Vinyl Acetate	5.90	43	858131	102.063	ug/l	100
24) 1,1-Dichloroethane	5.84	63	114686	19.865	ug/l	100
25) 2-Butanone	6.84	43	224006	105.332	ug/l	100
26) 2,2-Dichloropropane	6.82	77	98162	19.199	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	74306	19.385	ug/l	99
28) Bromochloromethane	7.19	49	60223	23.625	ug/l	99
29) Tetrahydrofuran	7.21	42	141091	100.347	ug/l	100
30) Chloroform	7.37	83	115924	19.494	ug/l	99
31) Cyclohexane	7.65	56	109952	19.963	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	103516	19.445	ug/l	99
36) 1,1-Dichloropropene	7.79	75	85910	19.335	ug/l	99
37) Ethyl Acetate	6.93	43	89621	22.259	ug/l	99
38) Carbon Tetrachloride	7.77	117	92410	19.426	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055745.D
 Acq On : 23 May 2019 10:10
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda

5/24/2019 9:20:57 AM

Quant Time: May 24 06:02:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 05:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	105965	19.665	ug/l	98
40) Benzene	8.04	78	269073	20.467	ug/l	100
41) Methacrylonitrile	7.18	41	40825	23.358	ug/l	99
42) 1,2-Dichloroethane	8.12	62	88949	20.933	ug/l	100
43) Isopropyl Acetate	8.17	43	140062	19.968	ug/l #	92
44) Trichloroethene	8.83	130	74207	20.022	ug/l	99
45) 1,2-Dichloropropane	9.12	63	69781	20.170	ug/l	99
46) Dibromomethane	9.21	93	46426	20.472	ug/l	99
47) Bromodichloromethane	9.40	83	92795	19.605	ug/l	99
48) Methyl methacrylate	9.20	41	68403	21.766	ug/l	97
49) 1,4-Dioxane	9.20	88	27041	434.175	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	424017	102.301	ug/l	99
52) Toluene	10.16	92	168714	20.410	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	98947	19.460	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	110527	19.834	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	68122	20.040	ug/l	98
56) Ethyl methacrylate	10.43	69	102595	19.325	ug/l	98
57) 1,3-Dichloropropane	10.71	76	109853	20.439	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	189888	86.137	ug/l	100
59) 2-Hexanone	10.75	43	299988	102.987	ug/l	100
60) Dibromochloromethane	10.90	129	77667	20.156	ug/l	99
61) 1,2-Dibromoethane	11.00	107	68659	20.170	ug/l	98
64) Tetrachloroethene	10.63	164	75441	21.702	ug/l	100
65) Chlorobenzene	11.43	112	175654	19.891	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	69804	19.671	ug/l	98
67) Ethyl Benzene	11.51	91	316323	20.058	ug/l	99
68) m/p-Xylenes	11.62	106	239739	40.249	ug/l	99
69) o-Xylene	11.95	106	119986	20.532	ug/l	99
70) Styrene	11.96	104	192629	19.879	ug/l	99
71) Bromoform	12.13	173	60073	19.926	ug/l #	99
73) Isopropylbenzene	12.25	105	313989	20.726	ug/l	99
74) N-amyl acetate	12.07	43	111782	21.436	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	93419	20.027	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	79020m	20.680	ug/l	
77) Bromobenzene	12.53	156	80632	21.035	ug/l	99
78) n-propylbenzene	12.59	91	323464	19.700	ug/l	99
79) 2-Chlorotoluene	12.67	91	201393	20.134	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	257501	20.238	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	28341	19.493	ug/l	100
82) 4-Chlorotoluene	12.77	91	191255	19.757	ug/l	99
83) tert-Butylbenzene	12.99	119	227671	20.393	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	254289	20.293	ug/l	100
85) sec-Butylbenzene	13.17	105	286944	20.241	ug/l	99
86) p-Isopropyltoluene	13.29	119	261564	20.074	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	126948	20.157	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	119159	19.892	ug/l	99
89) n-Butylbenzene	13.61	91	195933	19.356	ug/l	99
90) Hexachloroethane	13.87	117	50190	20.179	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	129802	20.680	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	16701	20.124	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
Data File : VN055745.D
Acq On : 23 May 2019 10:10
Operator : JC/SP
Sample : VSTDICC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

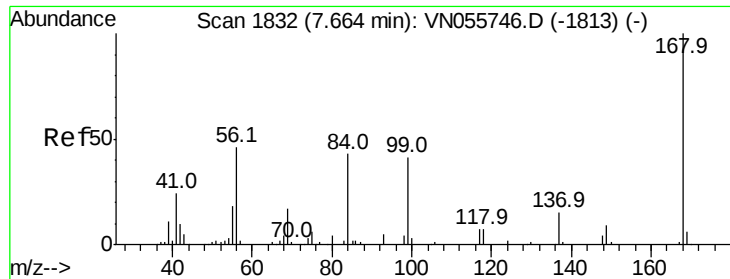
MMDadoda

5/24/2019 9:20:57 AM

Quant Time: May 24 06:02:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
Quant Title : SW846 8260
QLast Update : Fri May 24 05:41:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	59484	18.892	ug/l	99
94) Hexachlorobutadiene	15.01	225	49949	22.365	ug/l	100
95) Naphthalene	15.13	128	164722	19.335	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	64547	19.434	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 340354

Ion Ratio Lower Upper

168 100

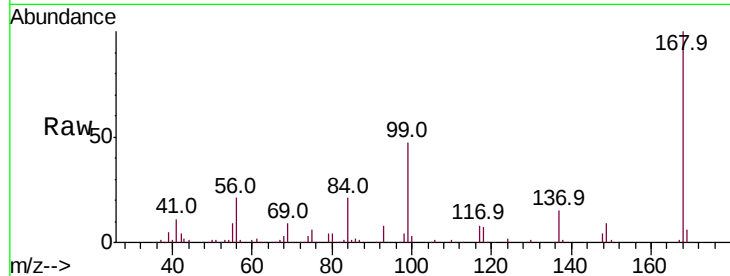
99 46.4 37.2 55.8

Manual Integrations

APPROVED

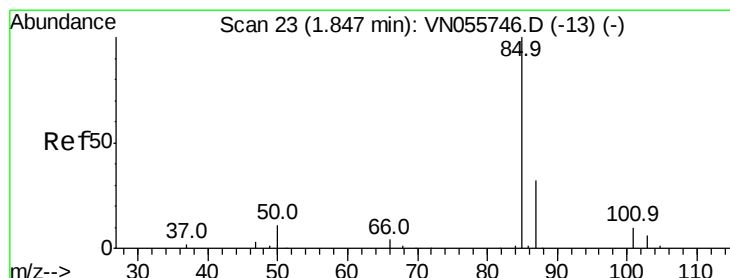
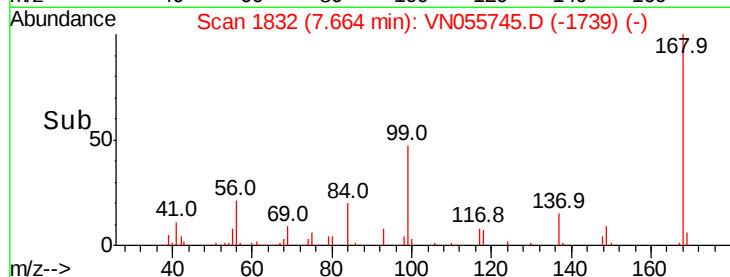
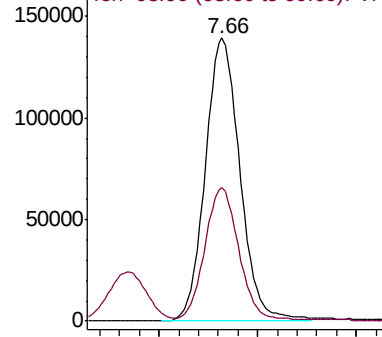
MMDadoda

5/24/2019 9:20:57 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 17.781 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055745.D

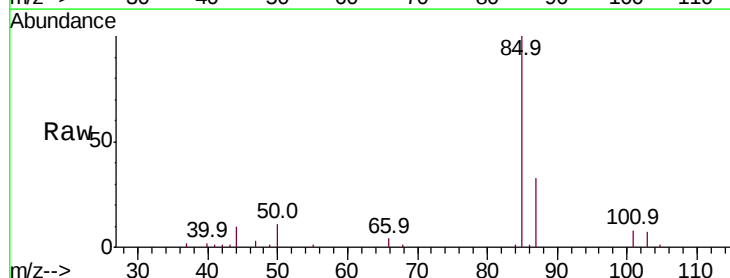
Acq: 23 May 2019 10:10

Tgt Ion: 85 Resp: 45706

Ion Ratio Lower Upper

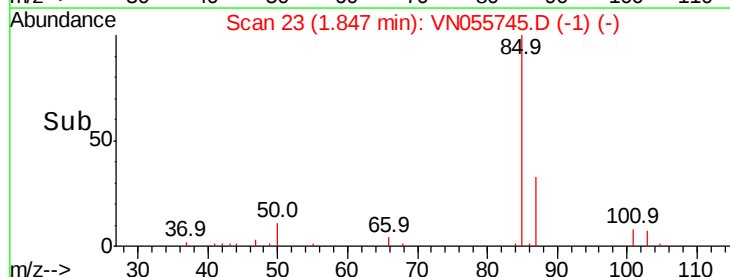
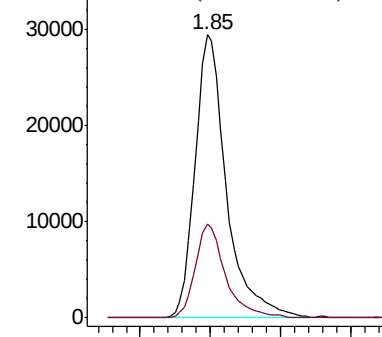
85 100

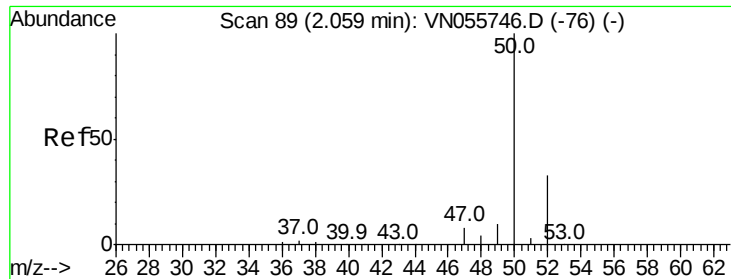
87 33.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3
Chloromethane
Concen: 18.943 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

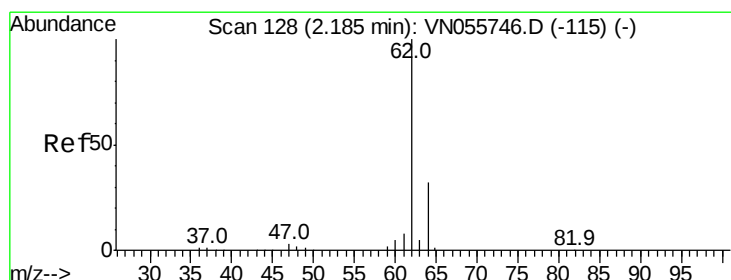
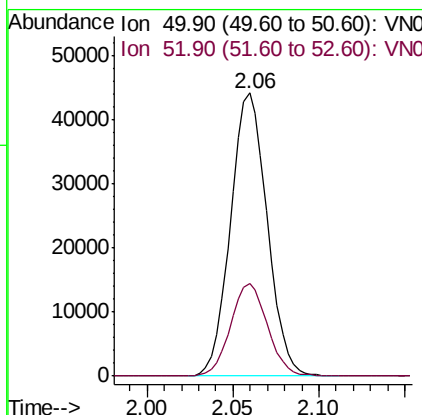
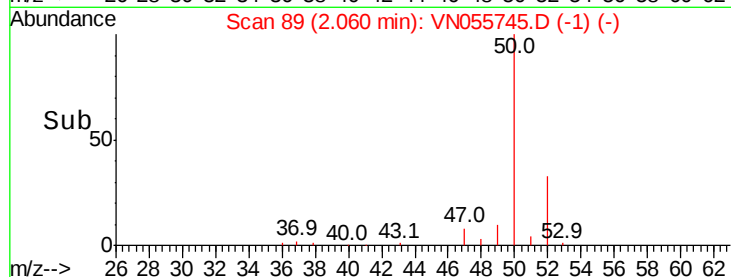
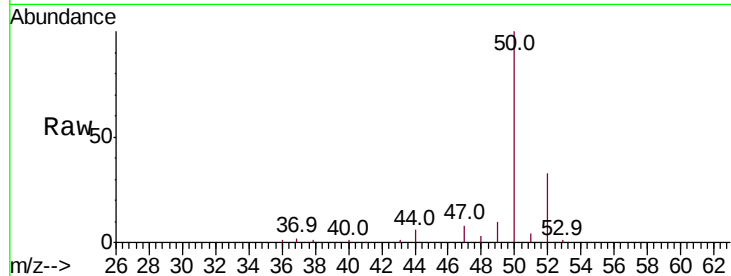
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.6	40.0

Manual Integrations
APPROVED

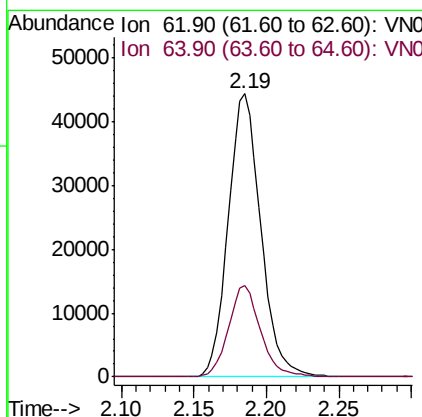
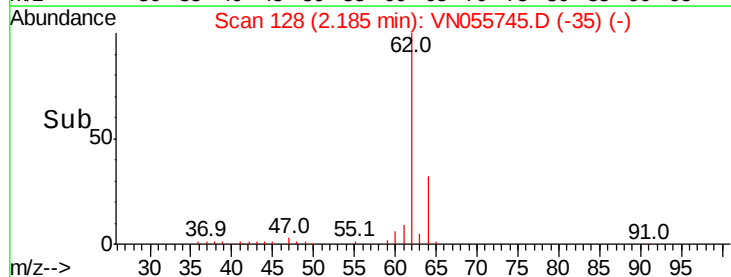
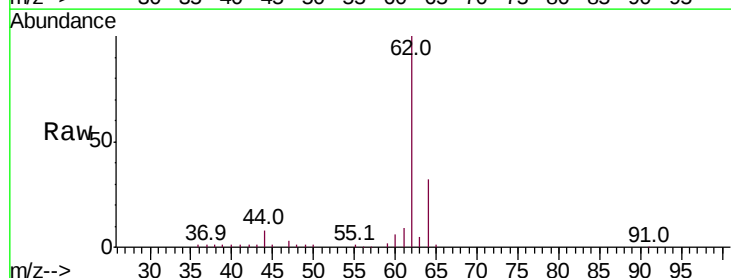
MMDadoda

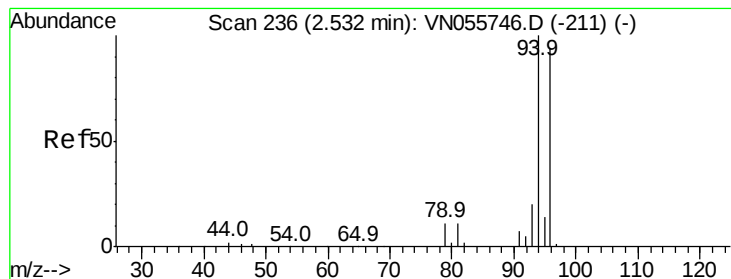
5/24/2019 9:20:57 AM



#4
Vinyl Chloride
Concen: 18.458 ug/l
RT: 2.19 min Scan# 128
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.6	38.4





#5

Bromomethane

Concen: 19.490 ug/l

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 46664

Ion Ratio Lower Upper

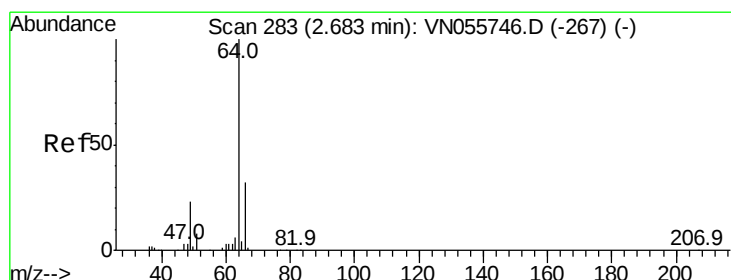
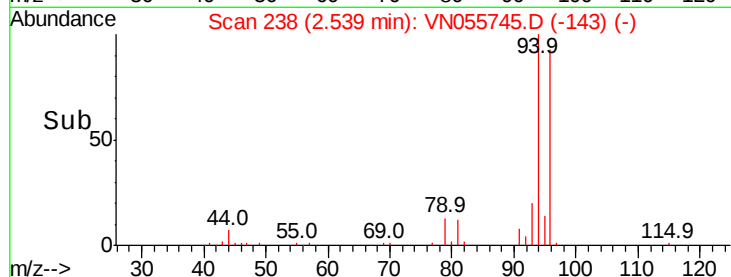
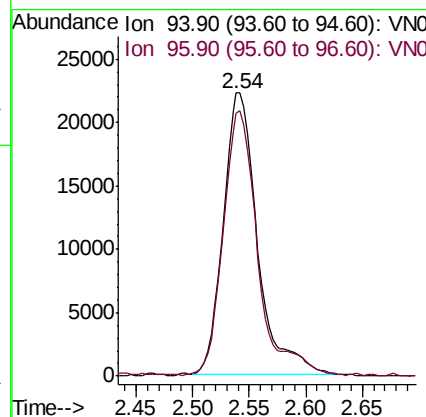
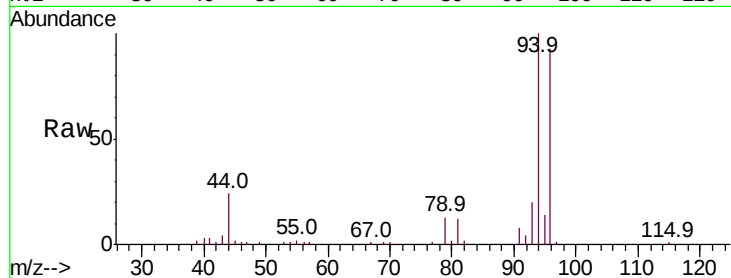
94 100

96 92.9 75.5 113.3

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#6

Chloroethane

Concen: 20.851 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.01 min

Lab File: VN055745.D

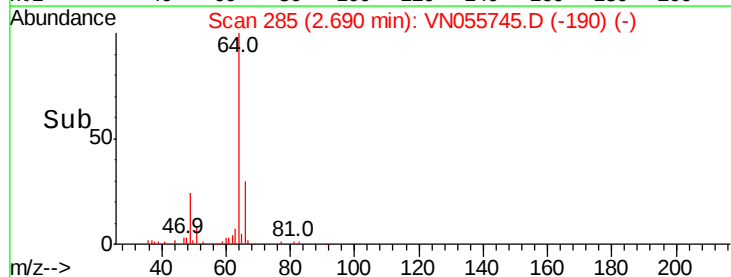
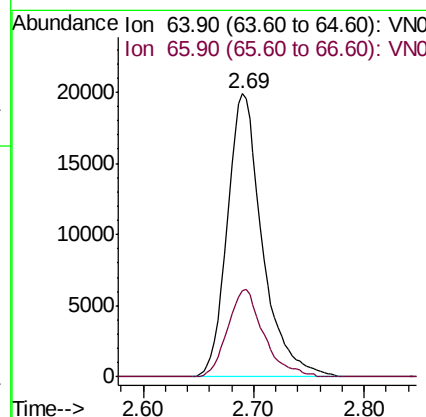
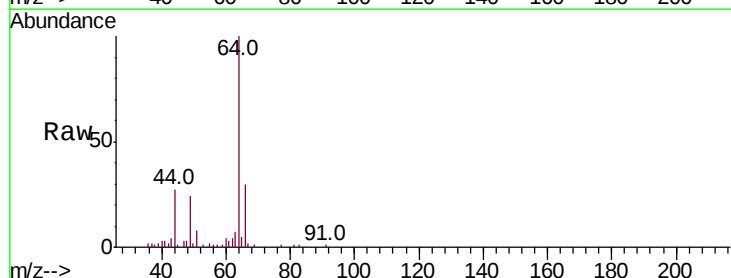
Acq: 23 May 2019 10:10

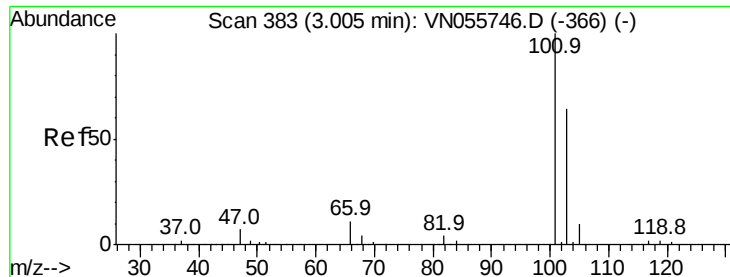
Tgt Ion: 64 Resp: 43795

Ion Ratio Lower Upper

64 100

66 30.3 25.4 38.0





#7

Trichlorofluoromethane
 Concen: 19.118 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

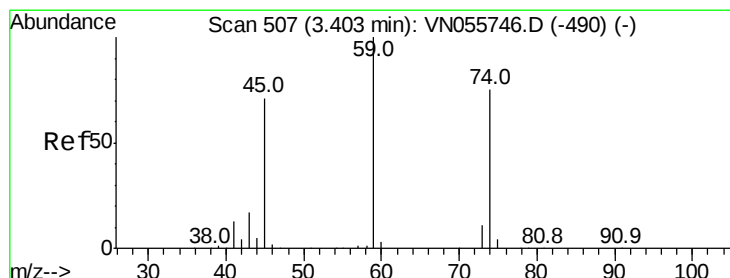
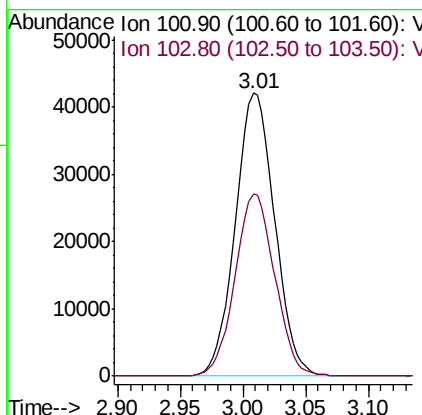
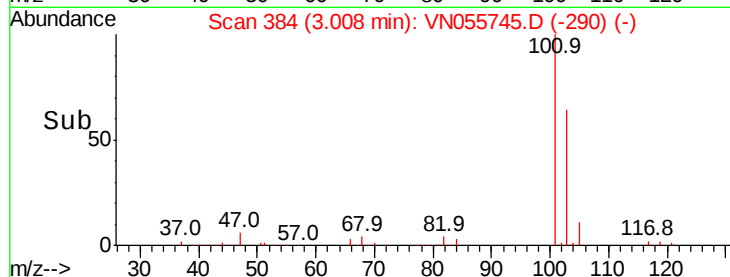
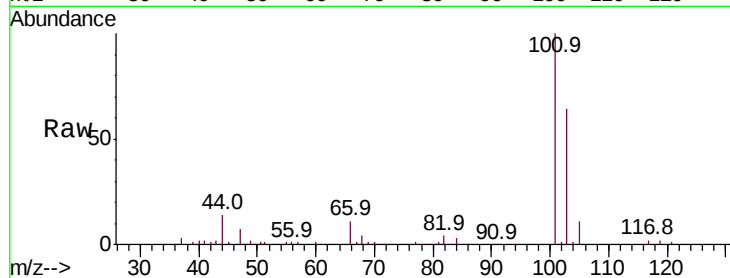
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:101 Resp: 91653
 Ion Ratio Lower Upper
 101 100
 103 64.5 51.2 76.8

Manual Integrations
 APPROVED

MMDadoda

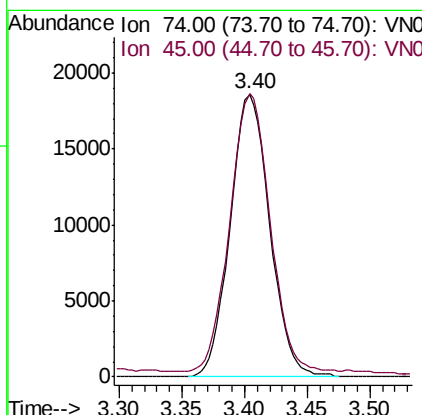
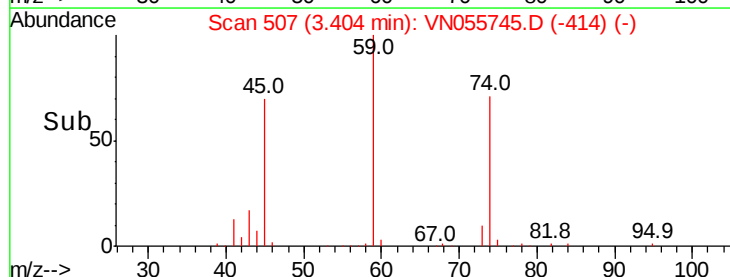
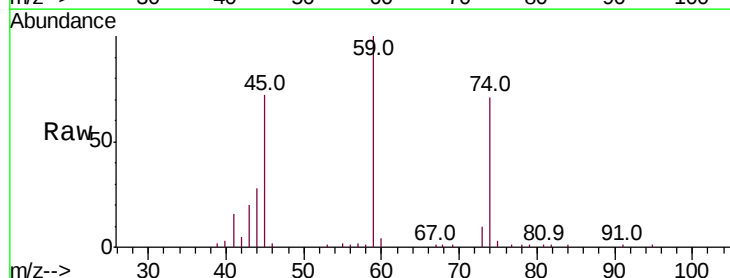
5/24/2019 9:20:57 AM

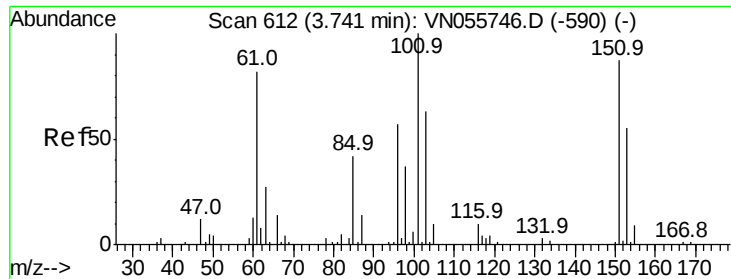


#8

Diethyl Ether
 Concen: 20.883 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion: 74 Resp: 40734
 Ion Ratio Lower Upper
 74 100
 45 99.1 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.445 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

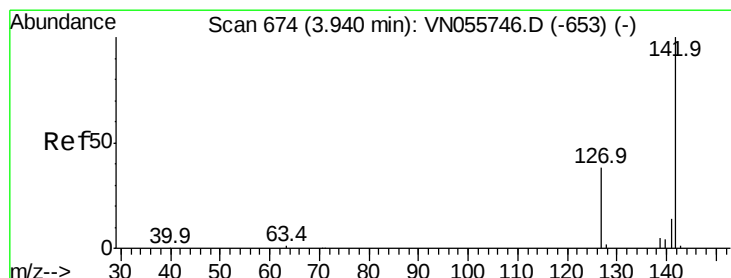
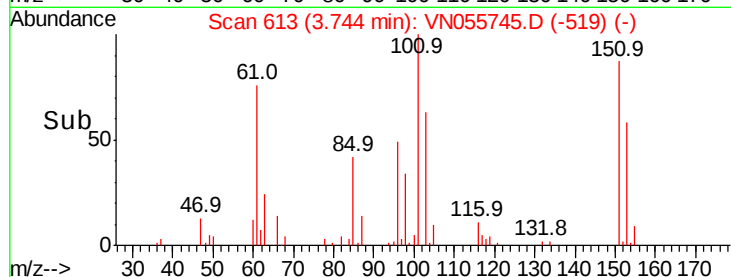
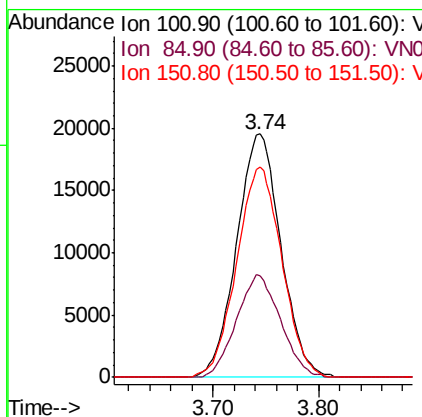
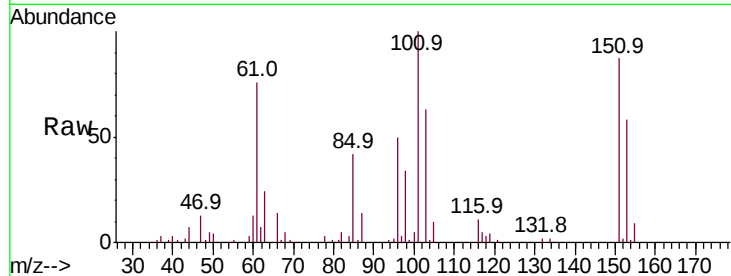
VSTDIC020

Tot Ion:	101	Resp:	56967
Ion Ratio	Lower	Upper	
101	100		
85	41.8	33.4	50.2
151	88.1	69.4	104.2

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#10

Methyl Iodide

Concen: 20.132 ug/l

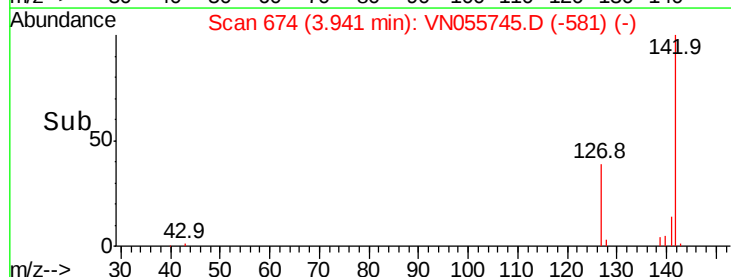
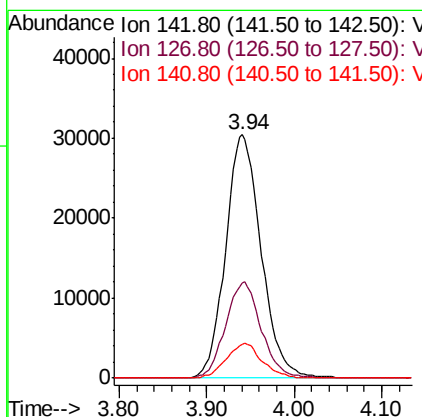
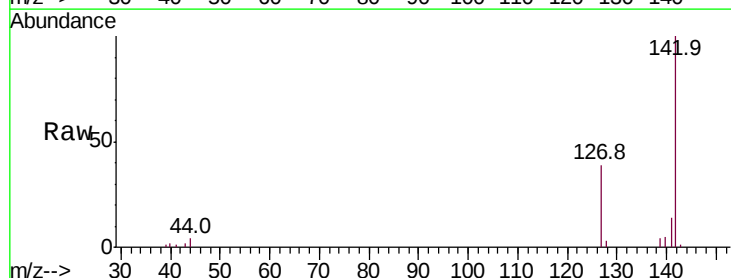
RT: 3.94 min Scan# 674

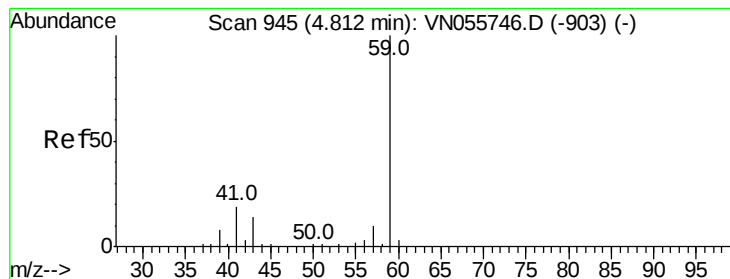
Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Tgt Ion:	142	Resp:	85604
Ion Ratio	Lower	Upper	
142	100		
127	39.5	31.0	46.4
141	14.3	11.4	17.0





#11

Tert butyl alcohol
Concen: 115.883 ug/l
RT: 4.81 min Scan# 944
Delta R.T. -0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

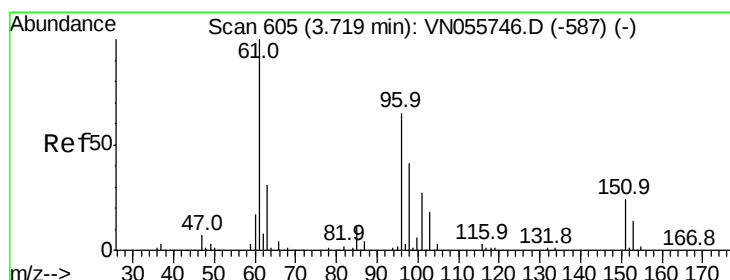
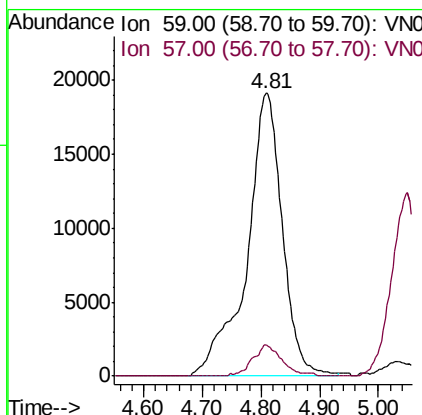
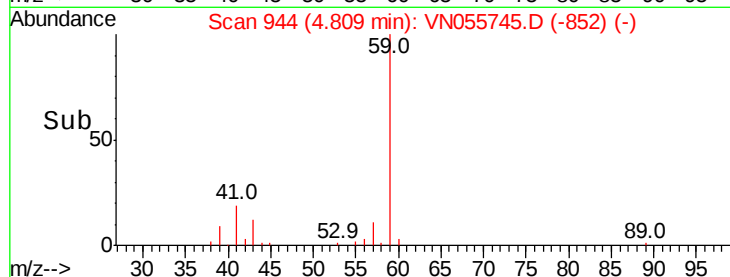
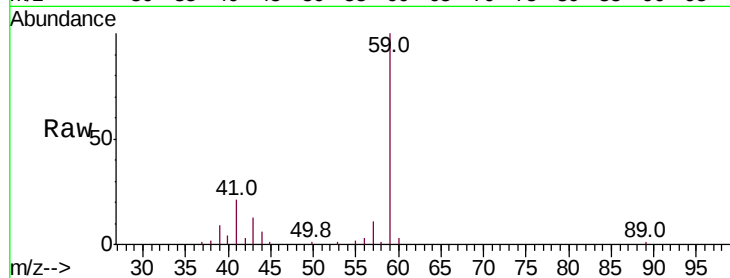
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.9	7.8	11.6

Manual Integrations
APPROVED

MMDadoda

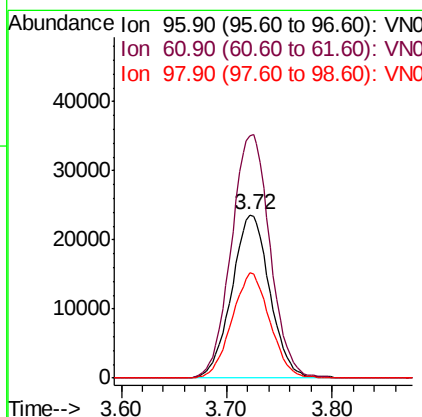
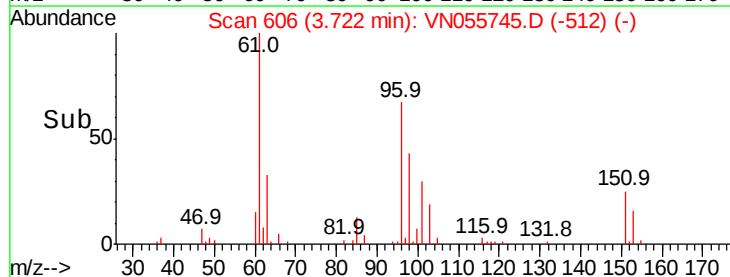
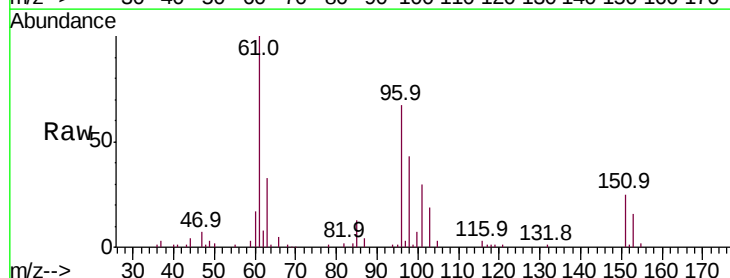
5/24/2019 9:20:57 AM

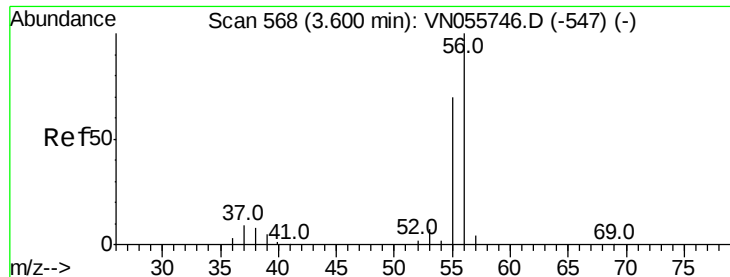


#12

1,1-Dichloroethene
Concen: 19.161 ug/l
RT: 3.72 min Scan# 606
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.1	123.2	184.8
98	64.3	50.4	75.6





#13

Acrolein

Concen: 124.075 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 49592

Ion Ratio Lower Upper

56 100

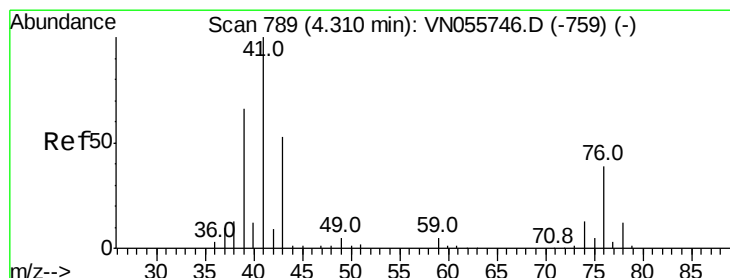
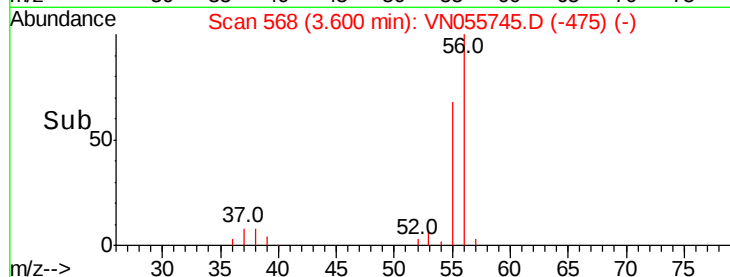
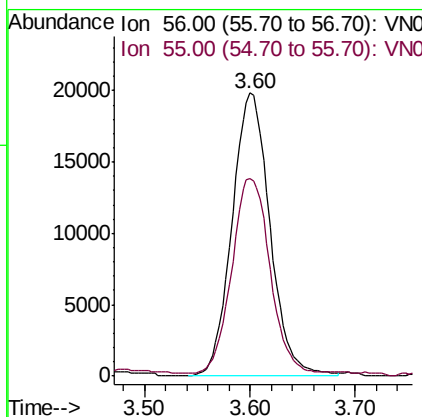
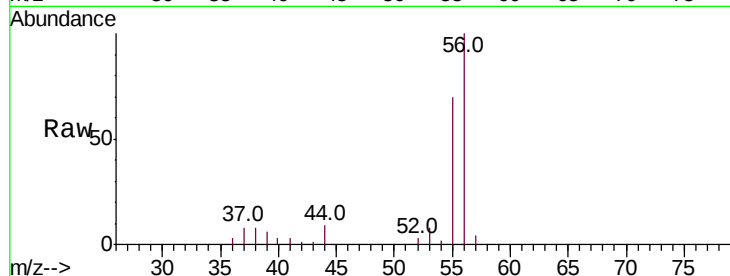
55 68.8 55.4 83.2

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#14

Allyl chloride

Concen: 20.886 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

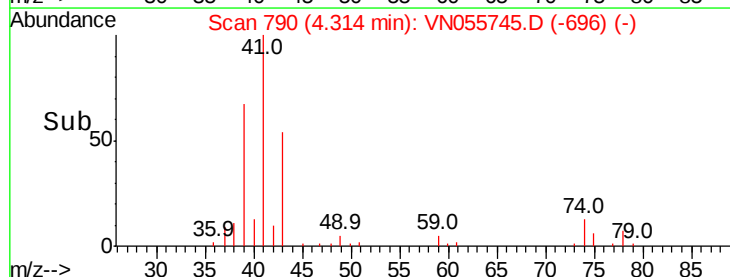
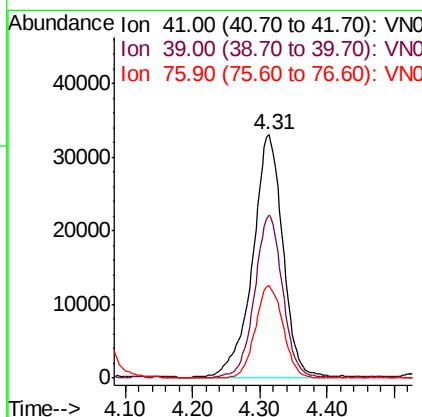
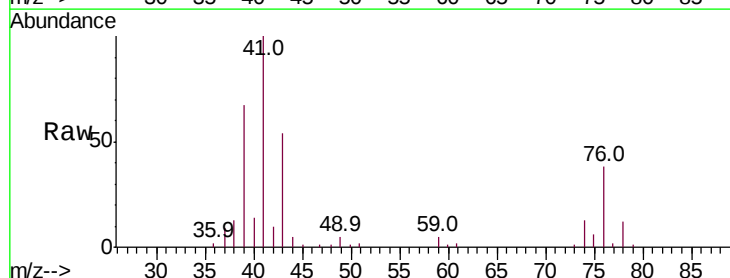
Tgt Ion: 41 Resp: 104117

Ion Ratio Lower Upper

41 100

39 61.6 50.0 75.0

76 34.3 28.2 42.2





#15

Acrylonitrile

Concen: 103.479 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

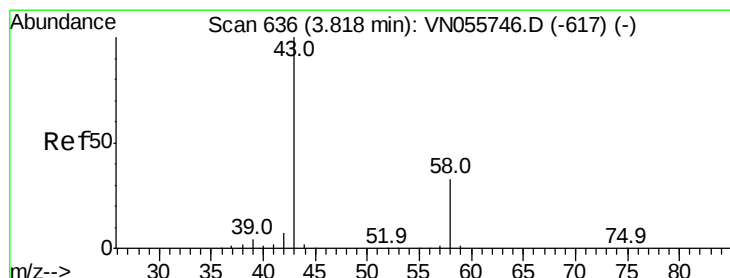
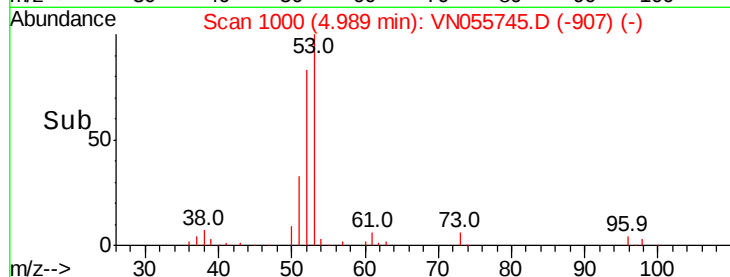
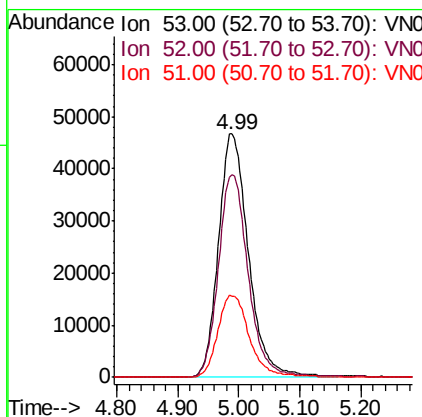
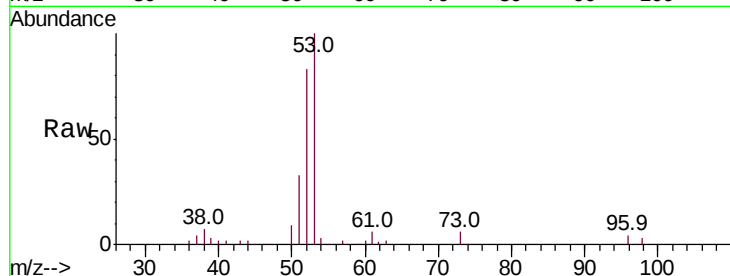
VSTDIC020

Tot Ion:	53	Resp:	159734
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.8	98.8
51	35.3	28.2	42.4

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#16

Acetone

Concen: 111.916 ug/l

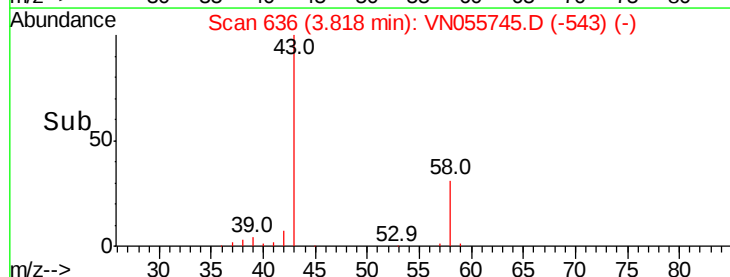
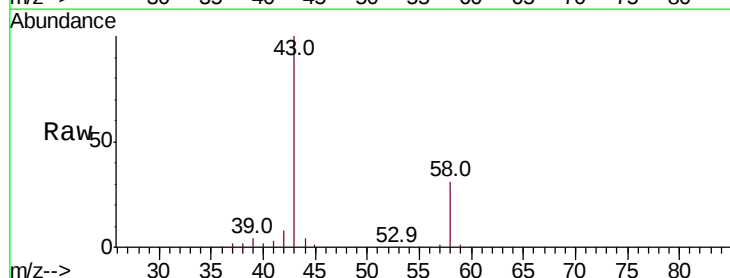
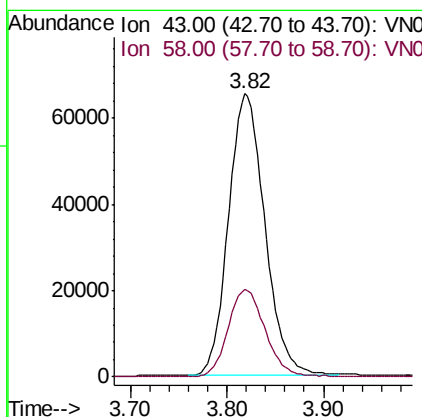
RT: 3.82 min Scan# 636

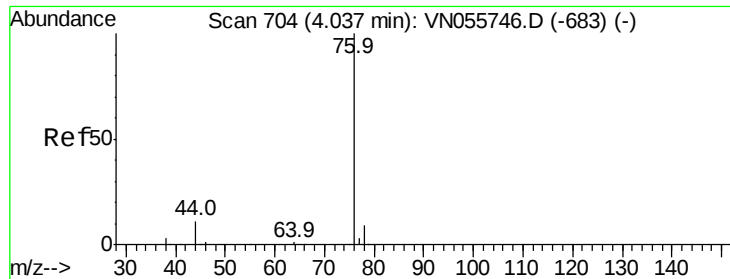
Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Tgt Ion:	43	Resp:	170789
Ion	Ratio	Lower	Upper
43	100		
58	30.9	26.6	39.8





#17
Carbon Disulfide
Concen: 19.163 ug/l
RT: 4.04 min Scan# 705
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

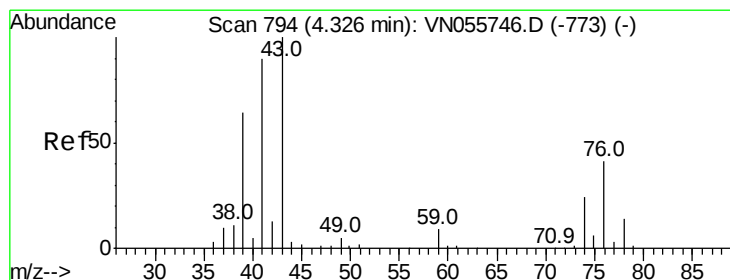
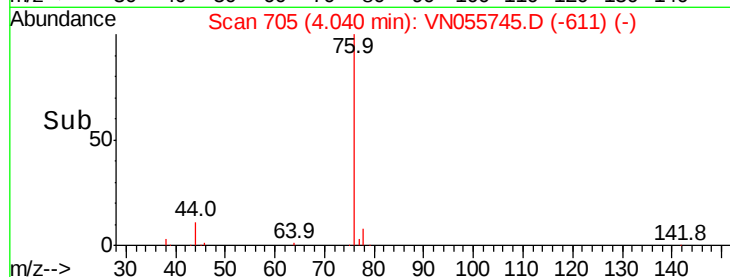
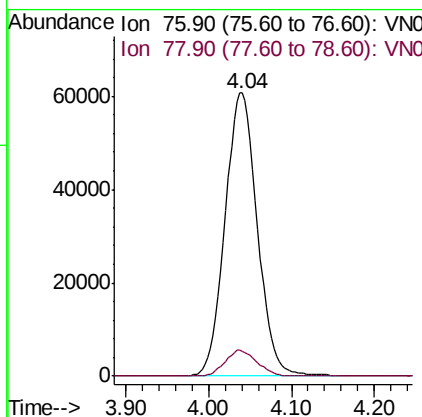
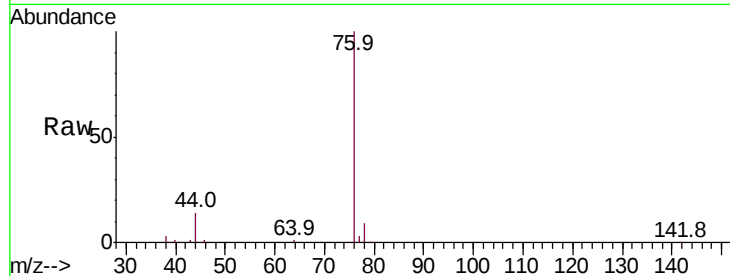
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2

Manual Integrations
APPROVED

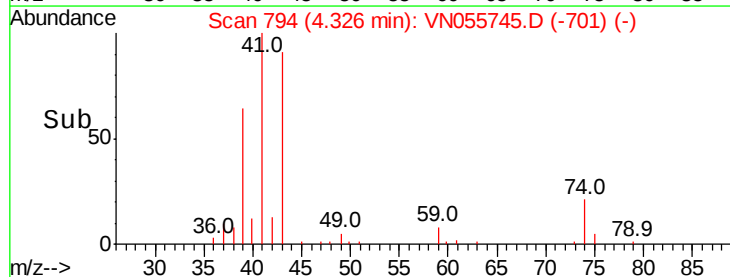
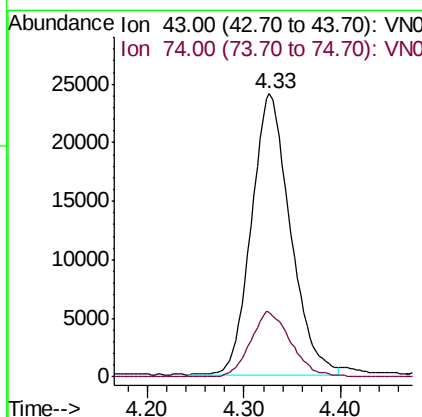
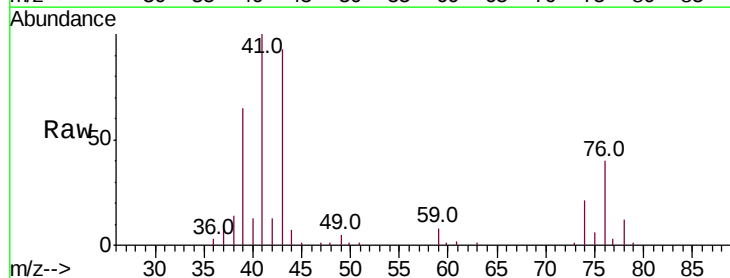
MMDadoda

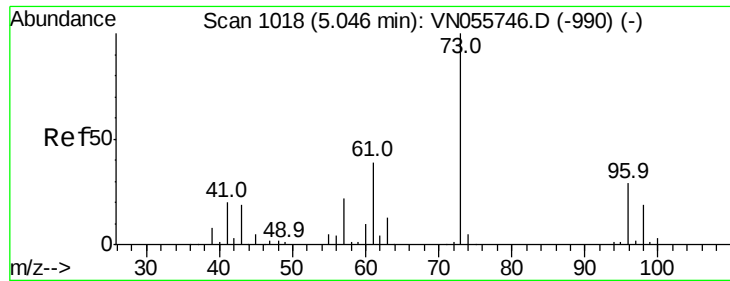
5/24/2019 9:20:57 AM



#18
Methyl Acetate
Concen: 20.471 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.0	19.3	28.9





#19
Methyl tert-butyl Ether
Concen: 19.646 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

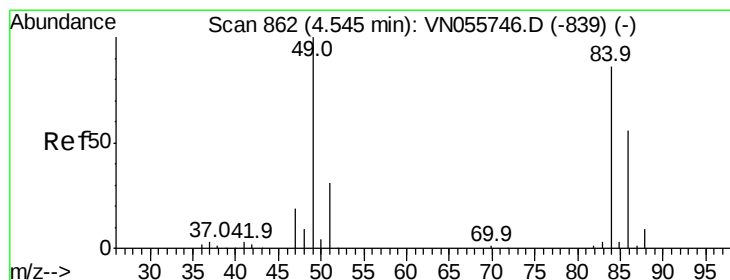
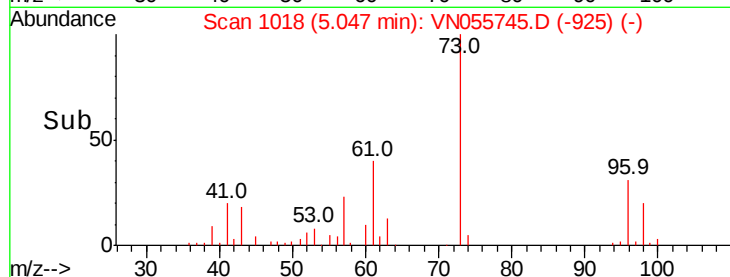
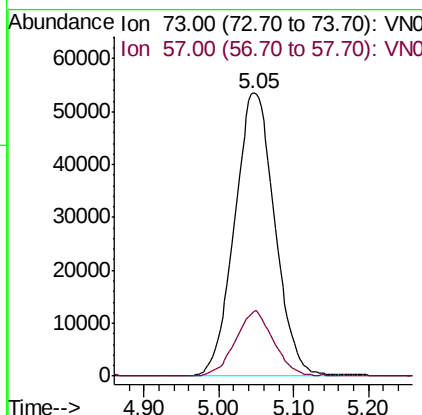
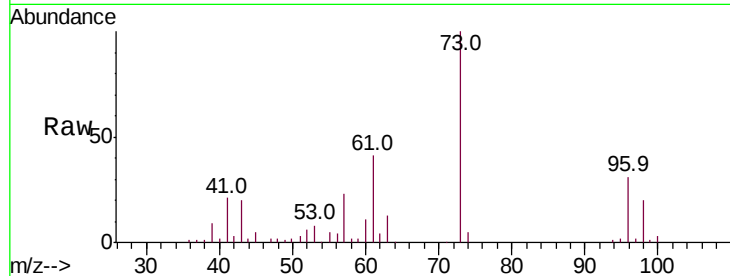
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 199903
Ion Ratio Lower Upper
73 100
57 23.0 17.8 26.8

Manual Integrations
APPROVED

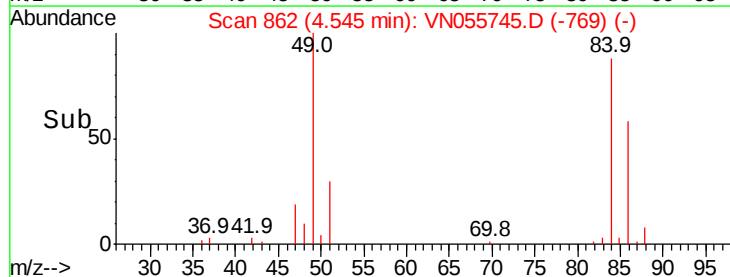
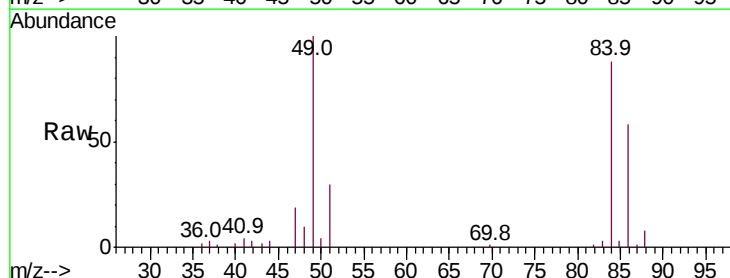
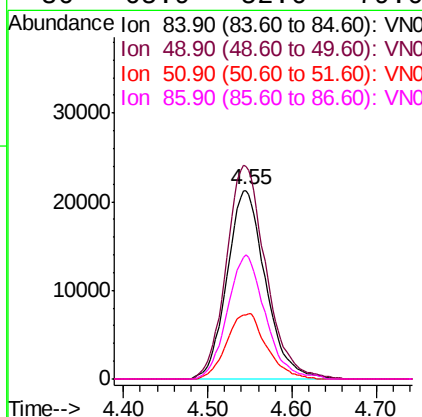
MMDadoda

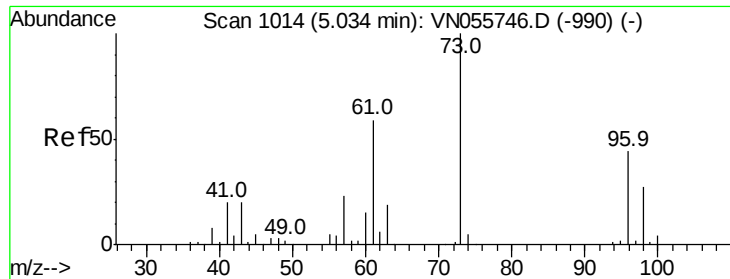
5/24/2019 9:20:57 AM



#20
Methylene Chloride
Concen: 19.572 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion: 84 Resp: 67568
Ion Ratio Lower Upper
84 100
49 113.1 93.5 140.3
51 34.3 28.6 43.0
86 65.9 52.6 79.0





#21
trans-1,2-Dichloroethene
Concen: 19.363 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

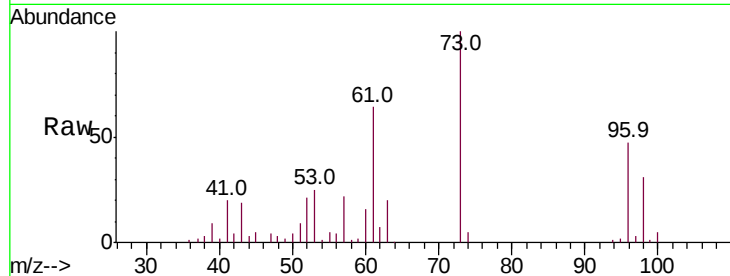
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.5	107.8	161.8
98	65.8	49.8	74.8

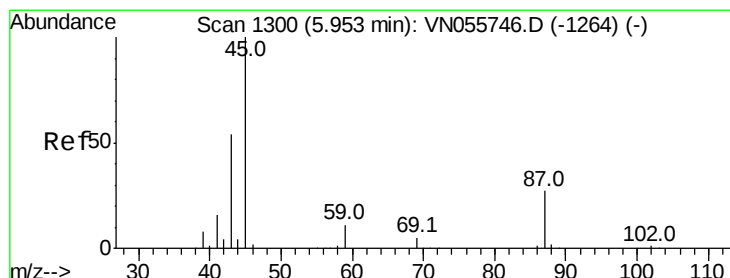
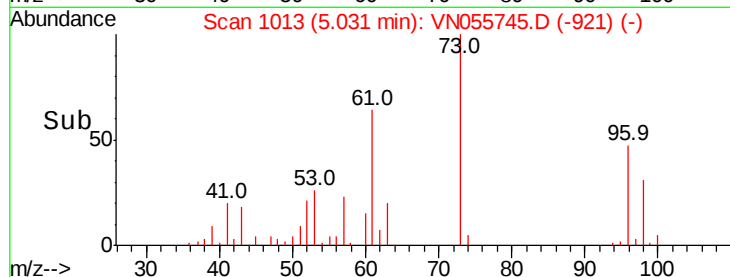
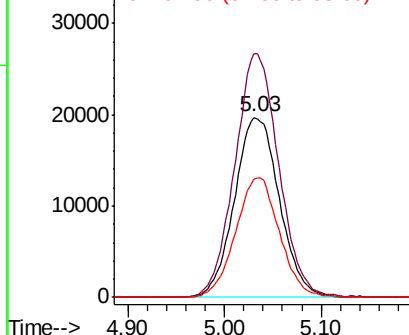
Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



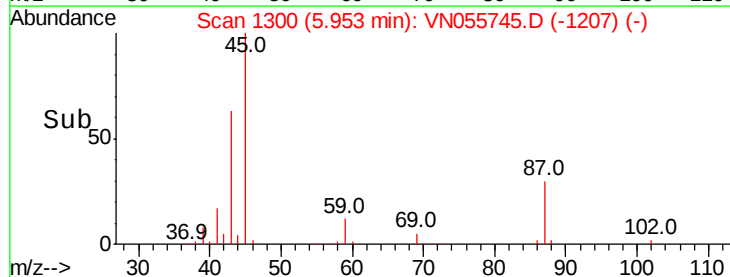
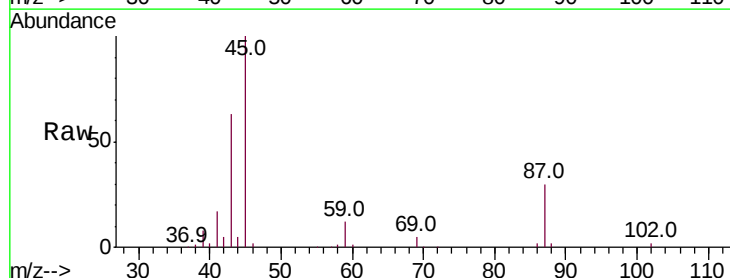
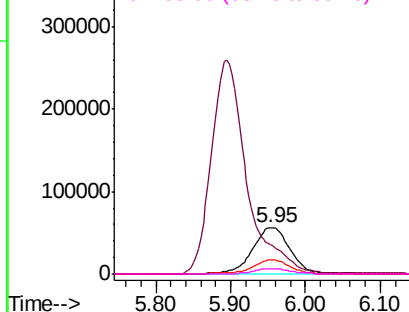
Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC

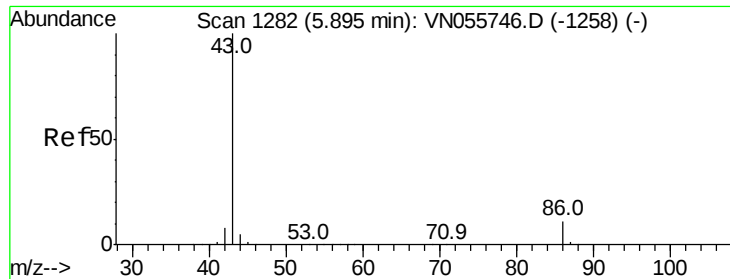


#22
Diisopropyl ether
Concen: 19.935 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.1	45.0	67.6
87	29.4	22.2	33.4
59	11.8	9.1	13.7

Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 102.063 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 858131

Ion Ratio Lower Upper

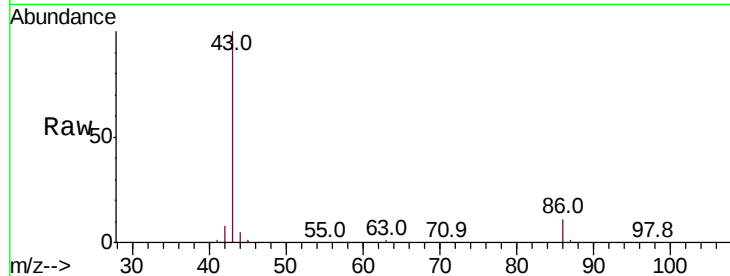
43 100

86 10.7 8.6 13.0

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VN055745.D (-1189) (-)

Ion 86.00 (85.70 to 86.70): VN055745.D (-1189) (-)

5.90

250000

200000

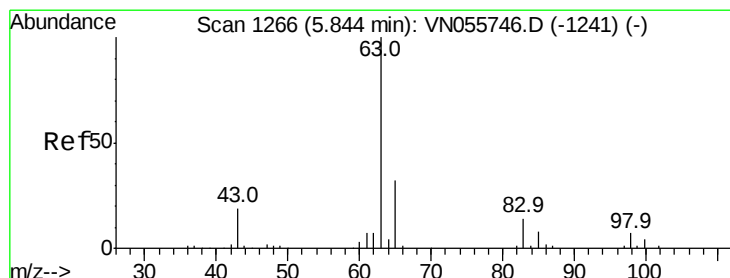
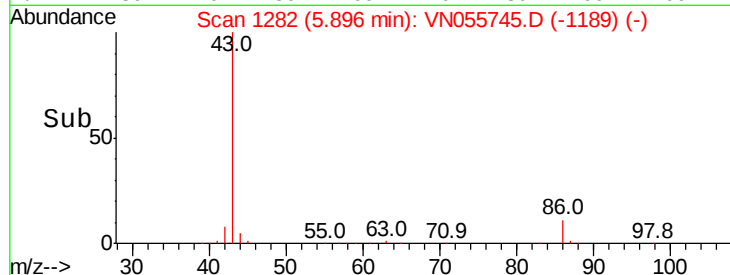
150000

100000

50000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 19.865 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

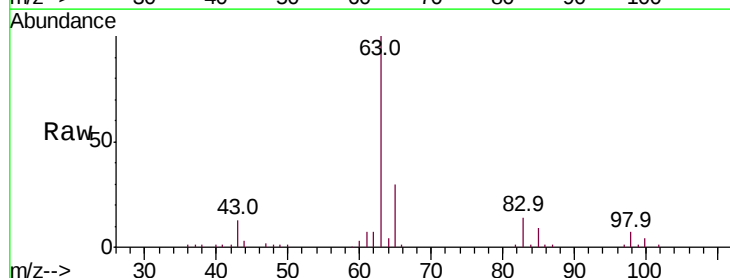
Tgt Ion: 63 Resp: 114686

Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.1

100 4.3 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN055745.D (-1173) (-)

Ion 97.90 (97.60 to 98.60): VN055745.D (-1173) (-)

Ion 99.90 (99.60 to 100.60): VN055745.D (-1173) (-)

5.84

40000

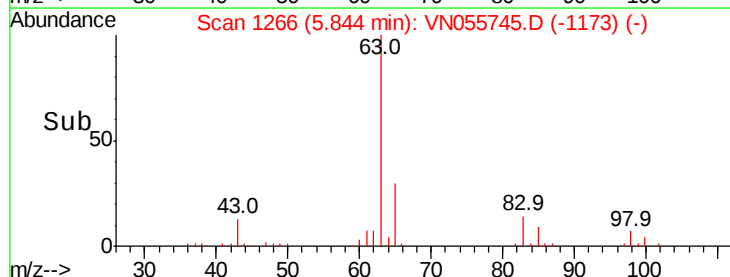
30000

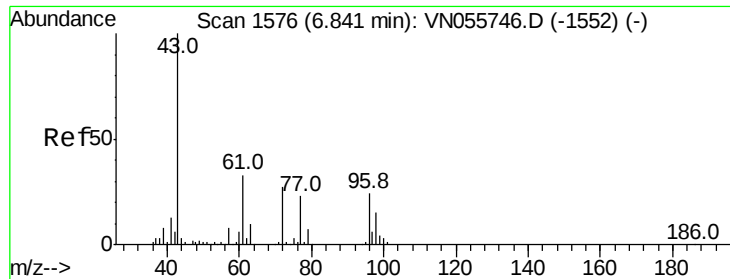
20000

10000

0

Time--> 5.70 5.80 5.90





#25

2-Butanone

Concen: 105.332 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 224006

Ion Ratio Lower Upper

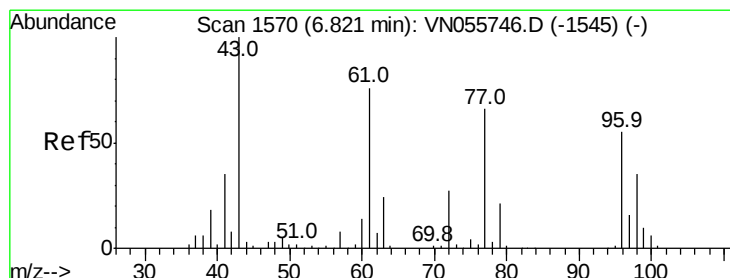
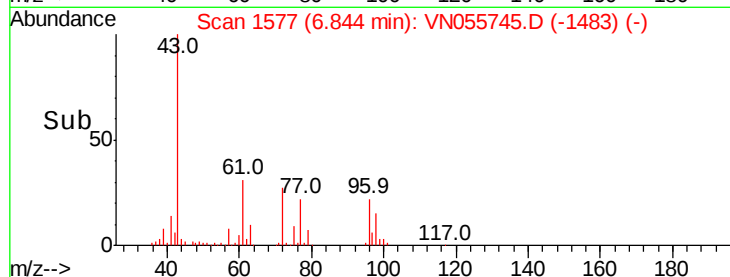
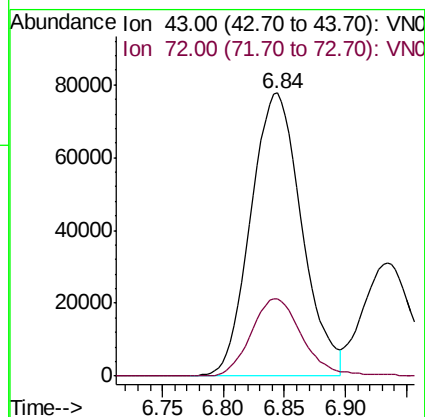
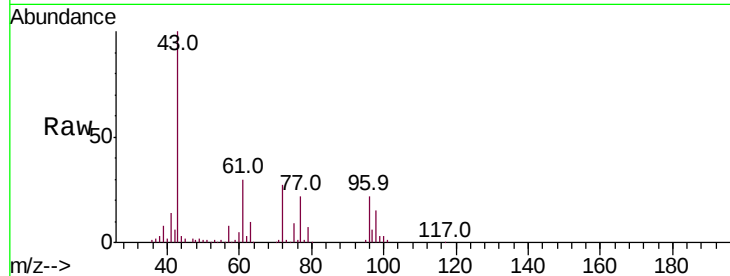
43 100

72 27.4 21.9 32.9

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#26

2,2-Dichloropropane

Concen: 19.199 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN055745.D

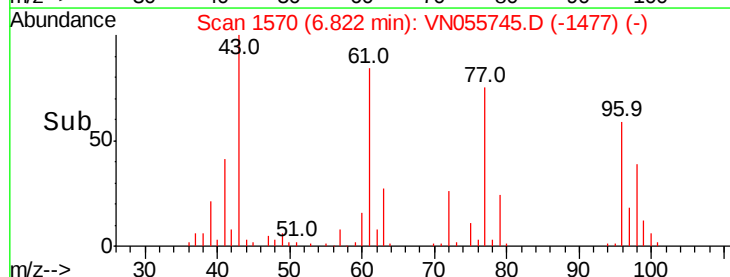
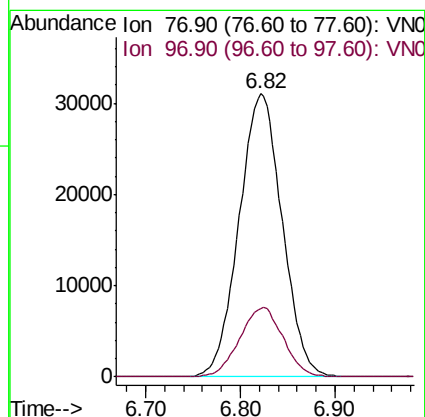
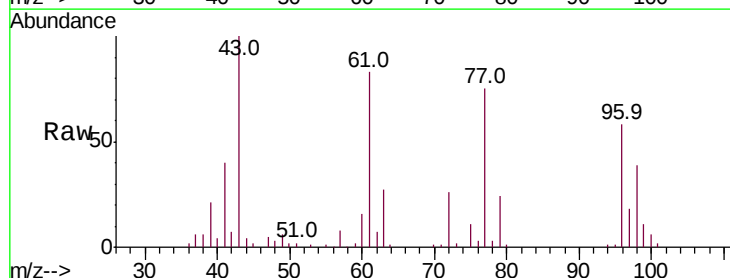
Acq: 23 May 2019 10:10

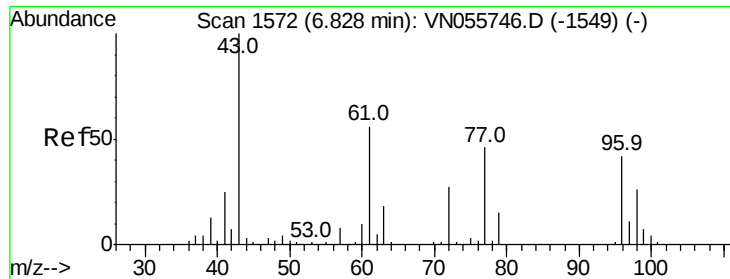
Tgt Ion: 77 Resp: 98162

Ion Ratio Lower Upper

77 100

97 24.7 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 19.385 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampled :

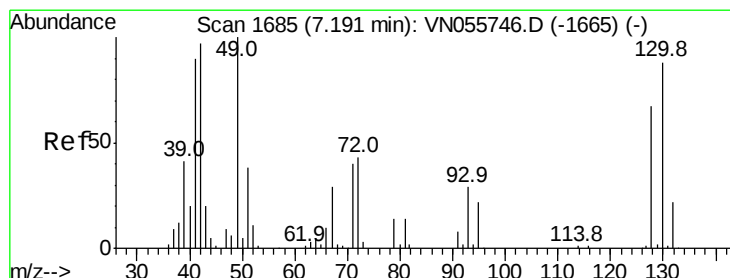
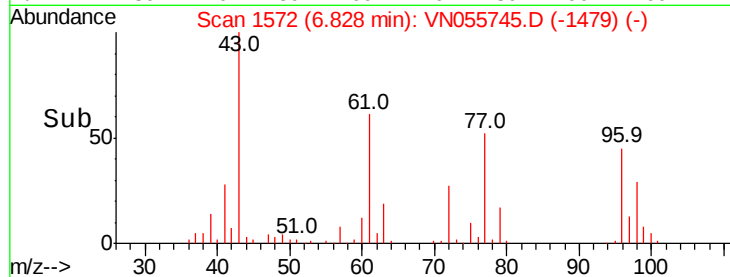
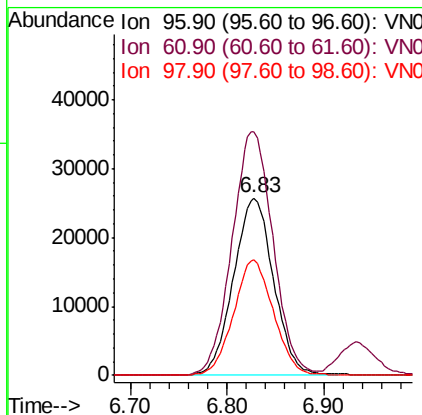
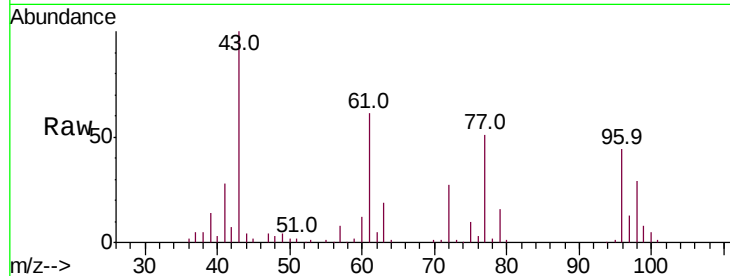
VSTDIC020

Tot Ion:	96	Resp:	74306
Ion	Ratio	Lower	Upper
96	100		
61	140.1	0.0	275.8
98	64.7	0.0	128.4

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#28

Bromochloromethane

Concen: 23.625 ug/l

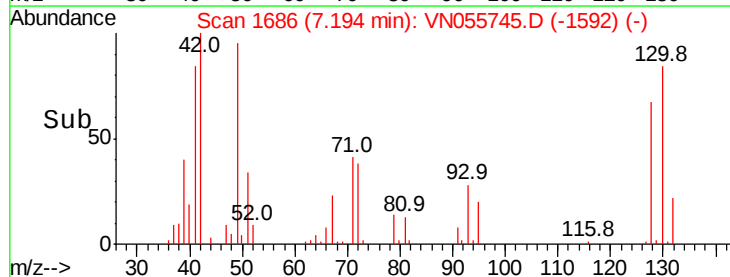
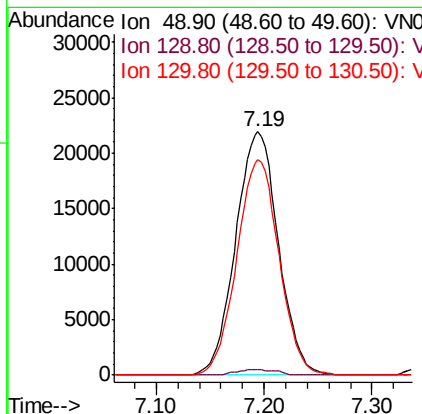
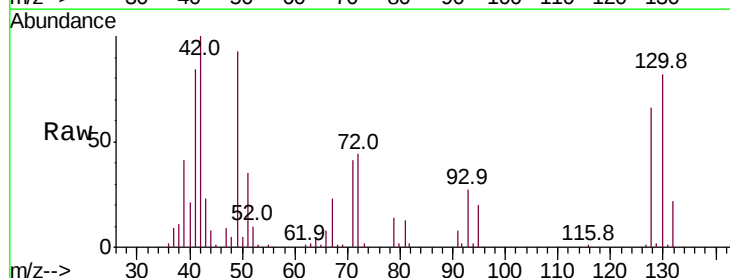
RT: 7.19 min Scan# 1686

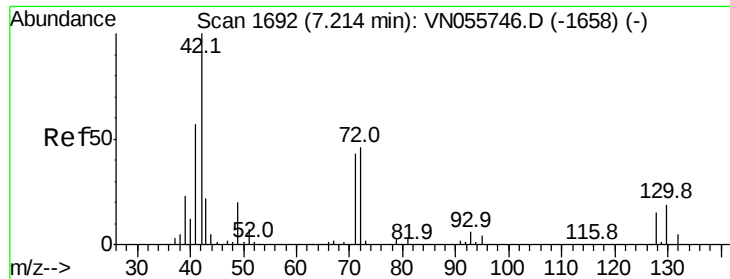
Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Tgt Ion:	49	Resp:	60223
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	87.6	71.2	106.8





#29
Tetrahydrofuran
Concen: 100.347 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

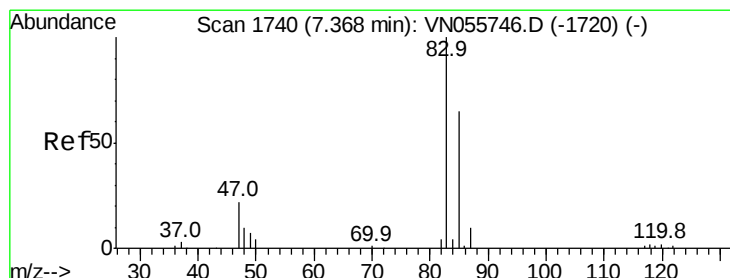
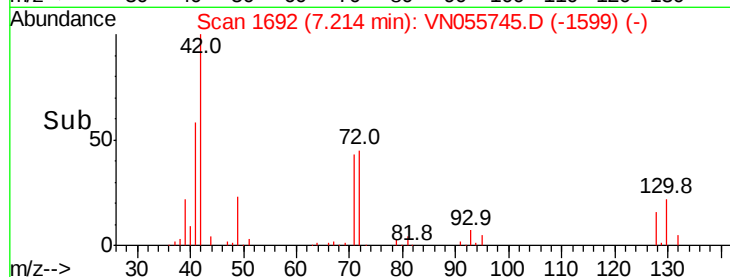
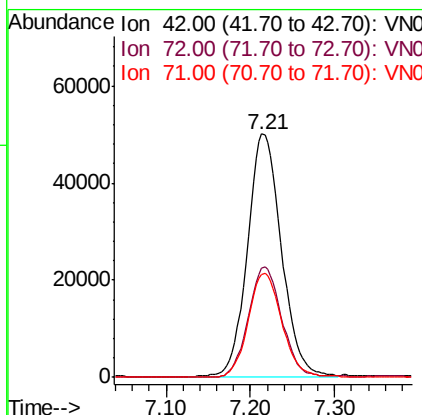
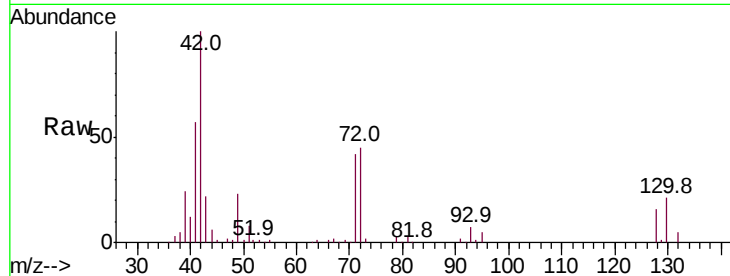
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:	42	Resp:	141091
Ion Ratio	Lower	Upper	
42	100		
72	44.6	35.9	53.9
71	42.2	34.0	51.0

Manual Integrations
APPROVED

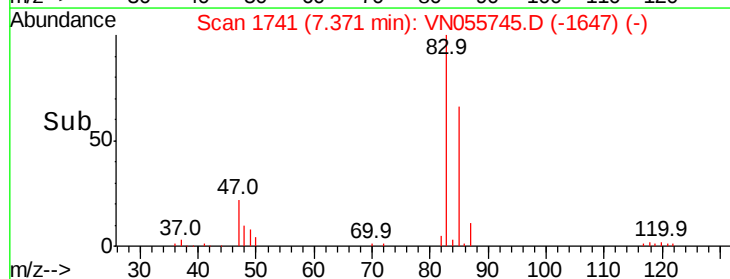
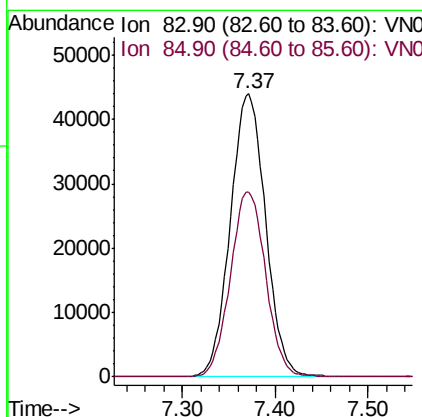
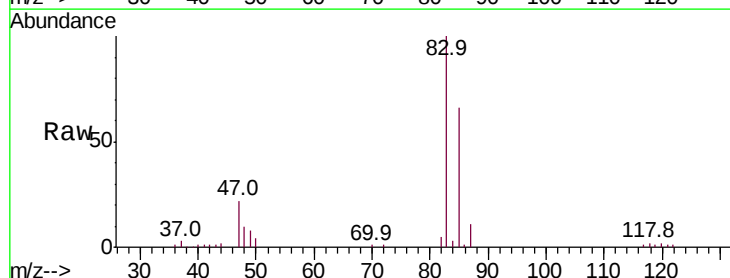
MMDadoda

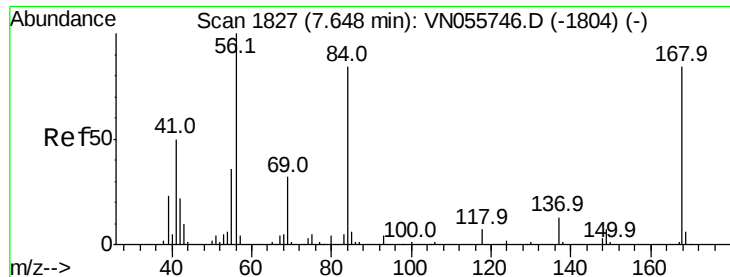
5/24/2019 9:20:57 AM



#30
Chloroform
Concen: 19.494 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion:	83	Resp:	115924
Ion Ratio	Lower	Upper	
83	100		
85	65.5	51.8	77.8





#31
Cyclohexane
Concen: 19.963 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

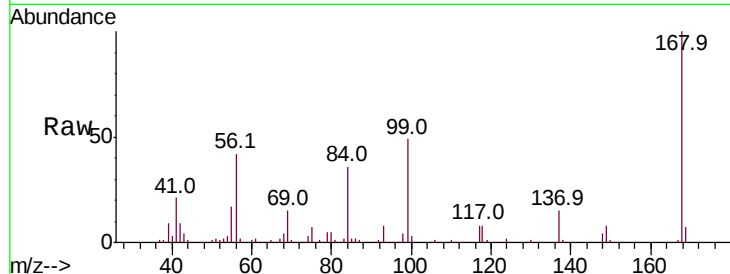
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.9	25.6	38.4
84	84.4	67.4	101.0

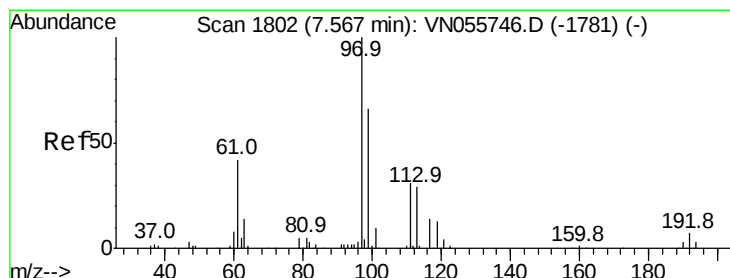
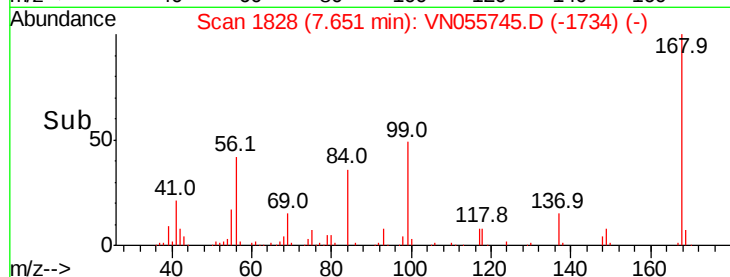
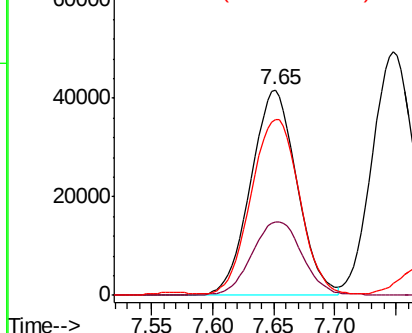
Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM

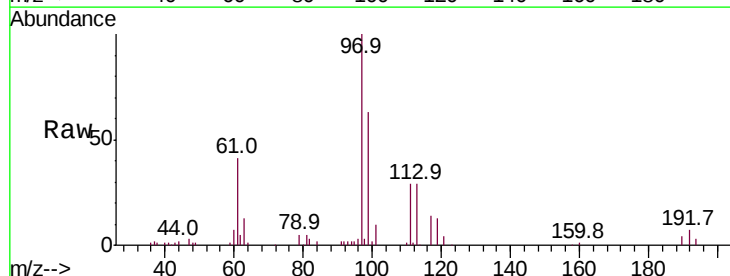


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

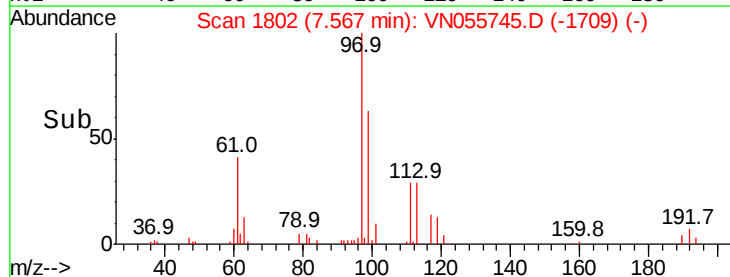
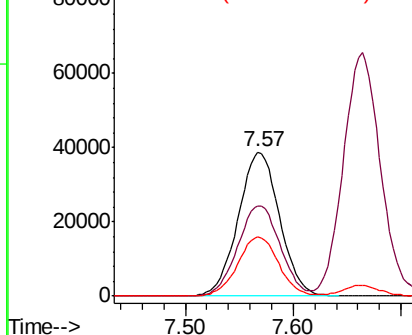


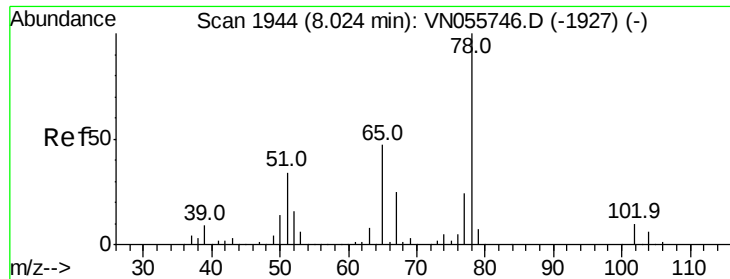
#32
1,1,1-Trichloroethane
Concen: 19.445 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.0	78.0
61	40.7	32.9	49.3



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO





#33
 1,2-Dichloroethane-d4
 Concen: 21.271 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

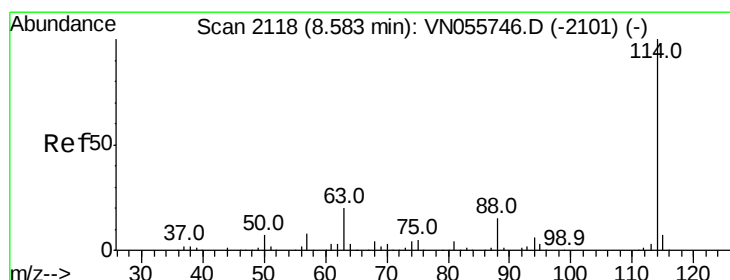
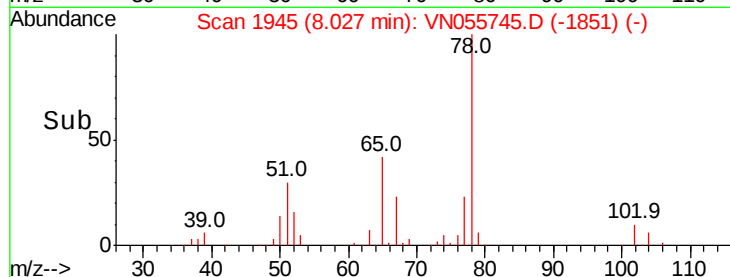
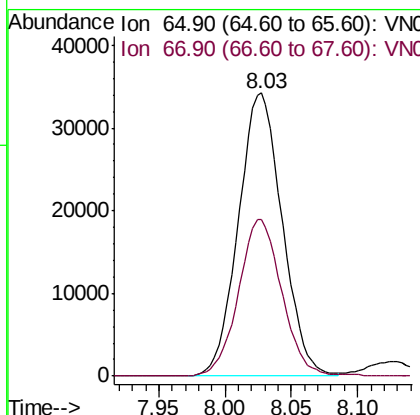
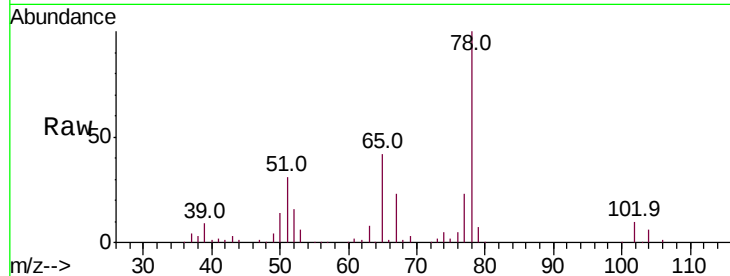
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 65 Resp: 78649
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 109.2

Manual Integrations
 APPROVED

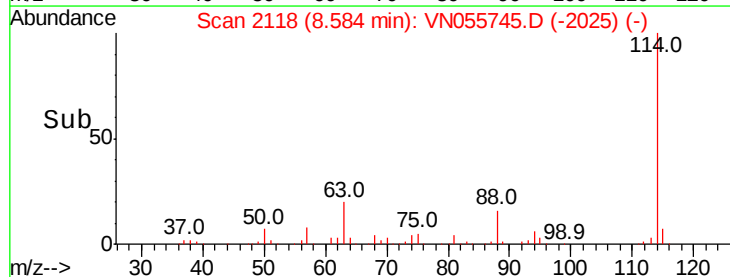
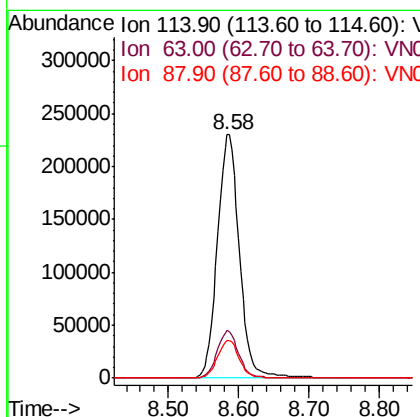
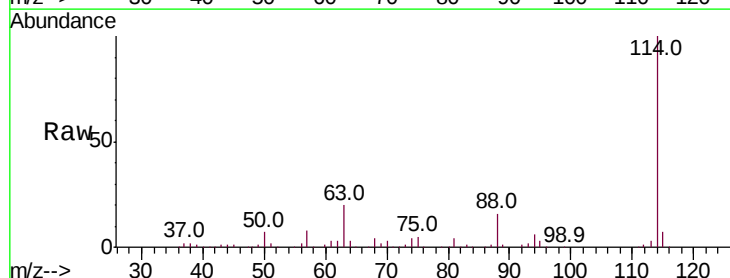
MMDadoda

5/24/2019 9:20:57 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion: 114 Resp: 500917
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.2
 88 15.7 0.0 31.0





#35
 Dibromofluoromethane
 Concen: 21.877 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

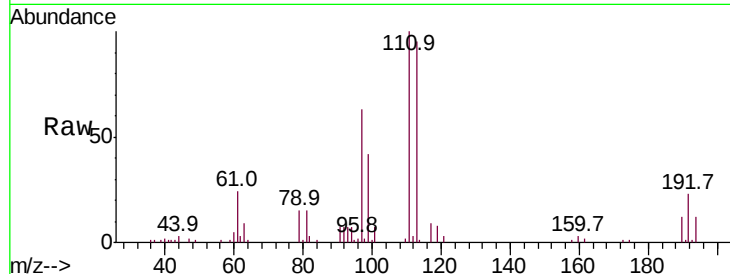
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.9	122.9
192	23.9	19.5	29.3

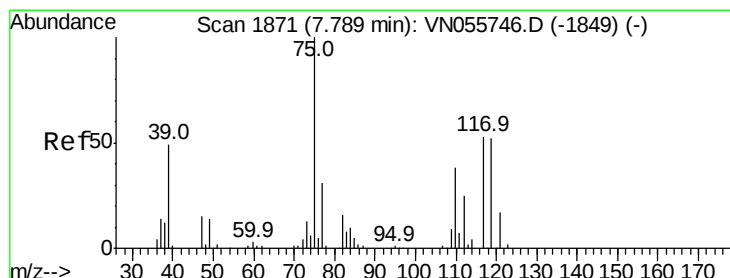
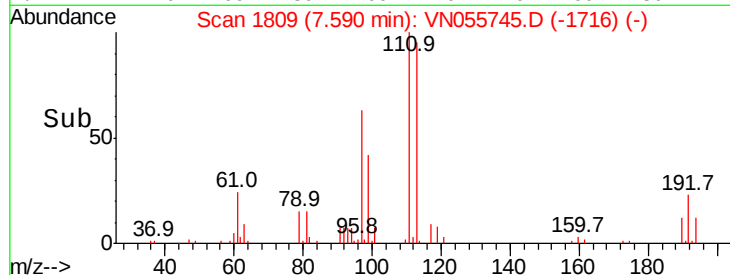
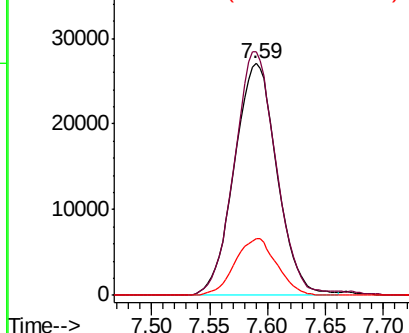
Manual Integrations
 APPROVED

MMDadoda

5/24/2019 9:20:57 AM

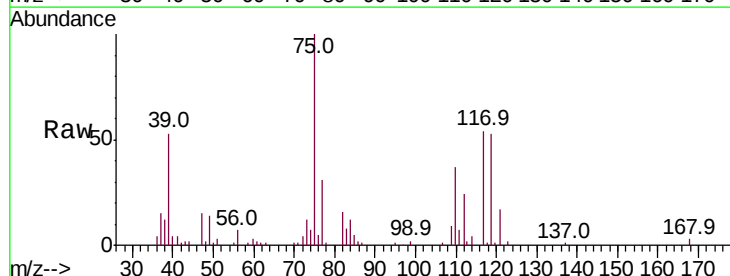


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

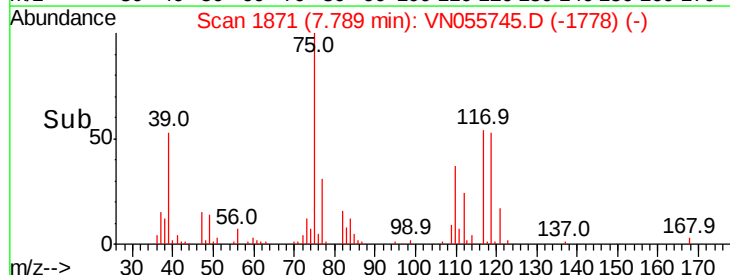
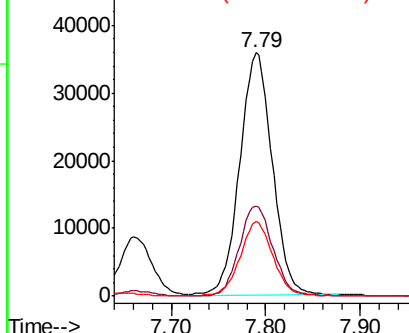


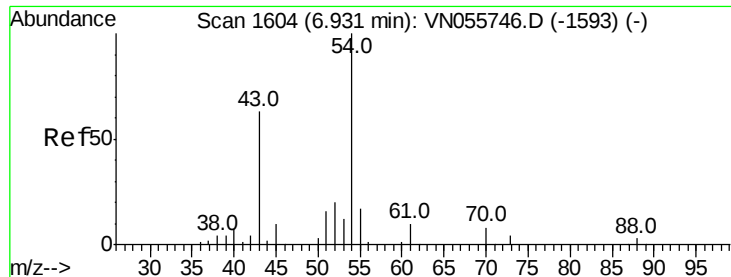
#36
 1,1-Dichloropropene
 Concen: 19.335 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.1	19.0	57.0
77	30.8	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: 22.259 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

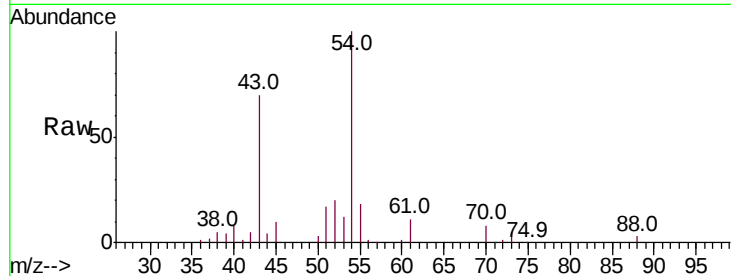
Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	12.2	18.2
70	10.9	8.9	13.3

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



Abundance

Ion 43.00 (42.70 to 43.70): VN055745.D (-1511) (-)

Ion 60.90 (60.60 to 61.60): VN055745.D (-1511) (-)

Ion 70.00 (69.70 to 70.70): VN055745.D (-1511) (-)

100000

80000

60000

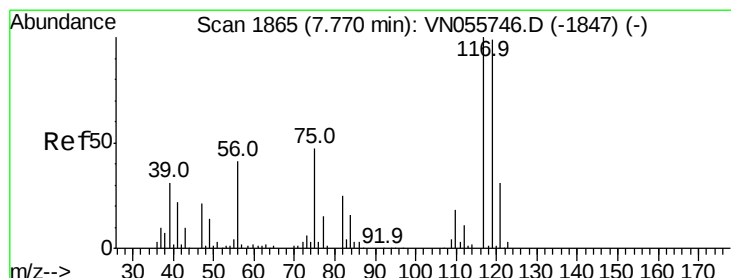
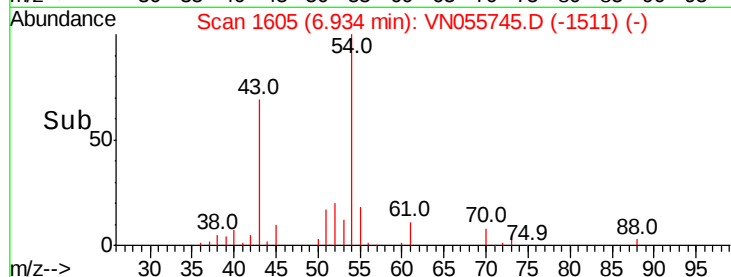
40000

20000

0

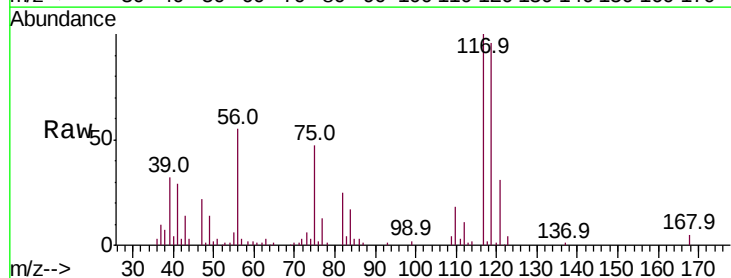
6.93

Time-->



#38
Carbon Tetrachloride
Concen: 19.426 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.8	79.0	118.6
121	30.5	24.7	37.1



Abundance

Ion 116.80 (116.50 to 117.50): VN055745.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN055745.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN055745.D (-1772) (-)

40000

30000

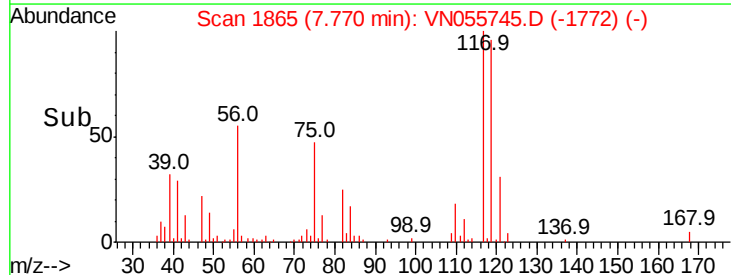
20000

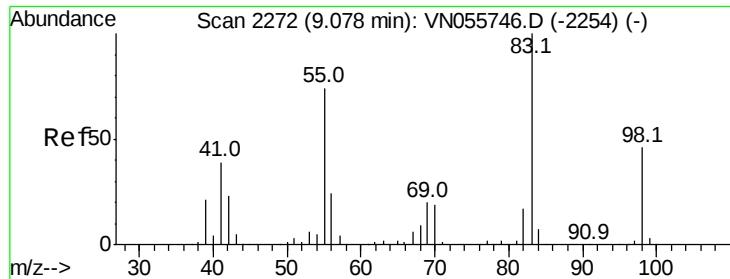
10000

0

7.77

Time-->





#39
Methvlcvclohexane
Concen: 19.665 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

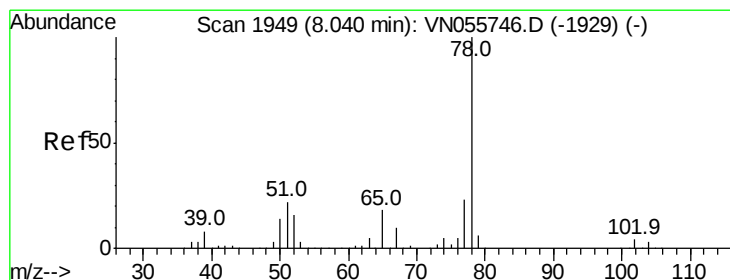
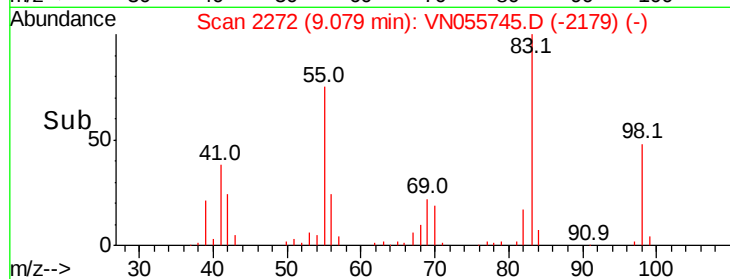
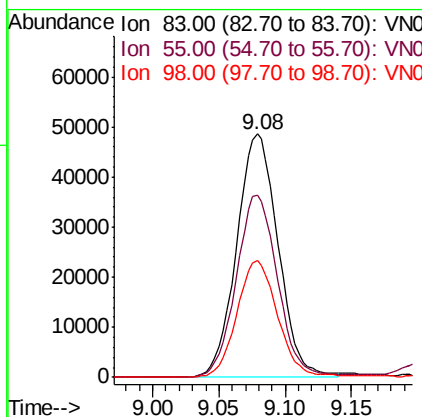
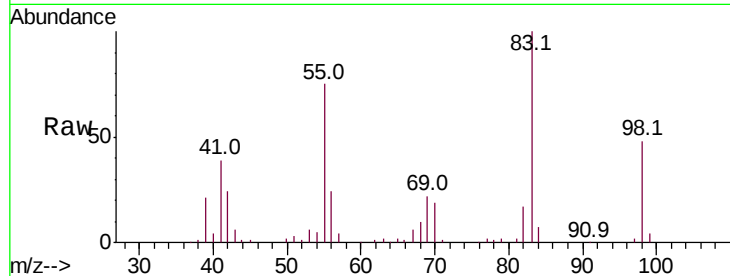
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.7	59.3	88.9
98	47.8	36.6	54.8

Manual Integrations
APPROVED

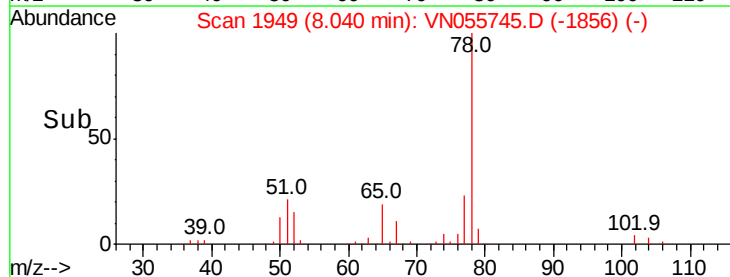
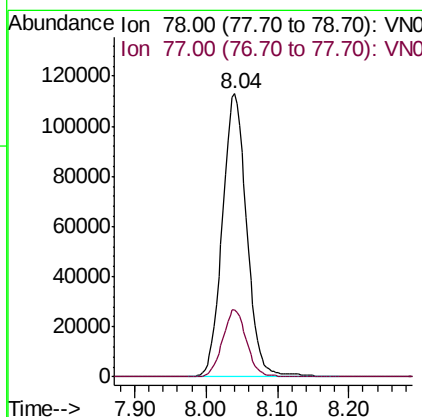
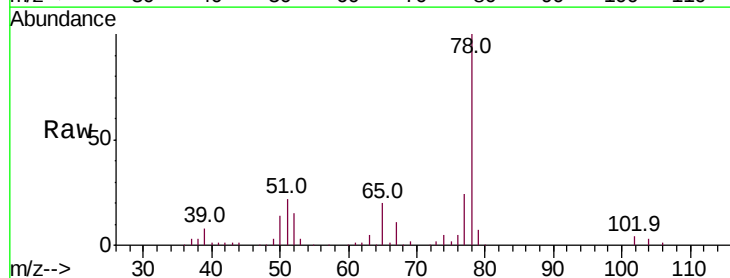
MMDadoda

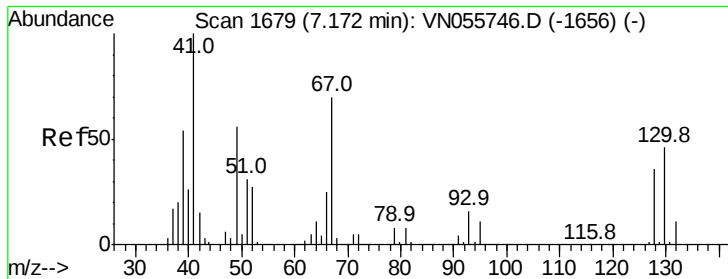
5/24/2019 9:20:57 AM



#40
Benzene
Concen: 20.467 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2





#41
Methacrylonitrile
Concen: 23.358 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

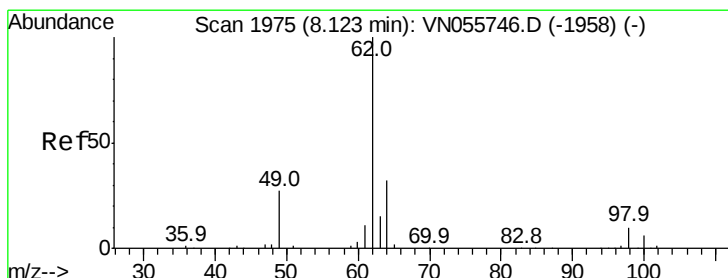
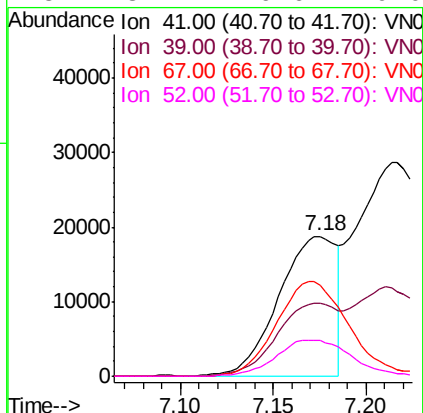
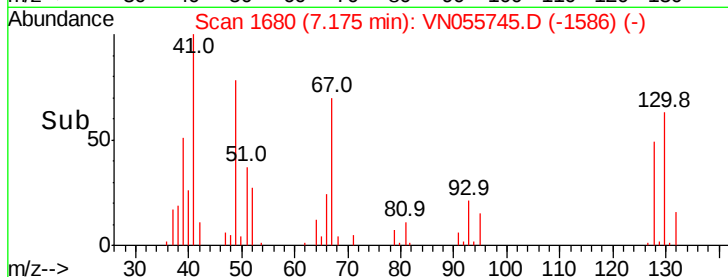
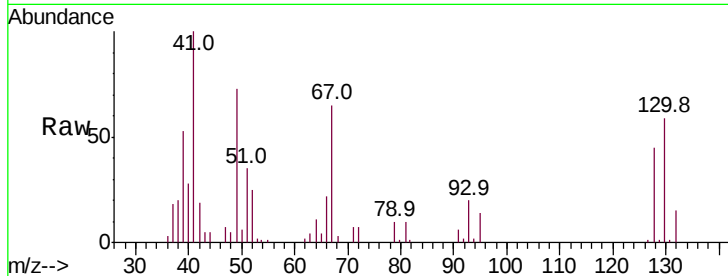
Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:	41	Resp:	40825
Ion	Ratio	Lower	Upper
41	100		
39	57.5	45.6	68.4
67	85.1	67.7	101.5
52	34.2	26.6	40.0

Manual Integrations
APPROVED

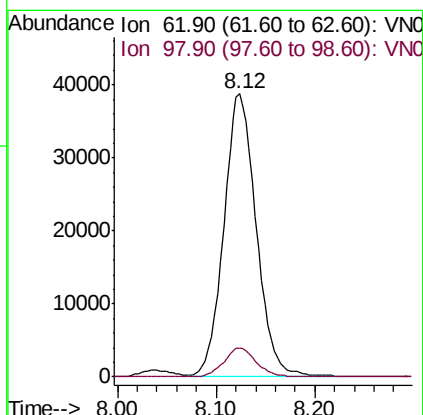
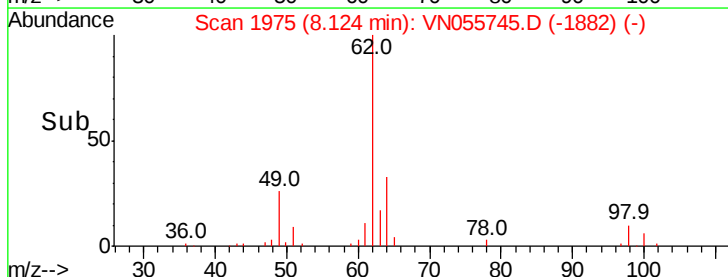
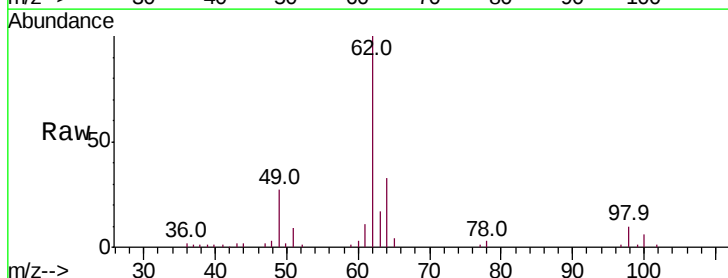
MMDadoda

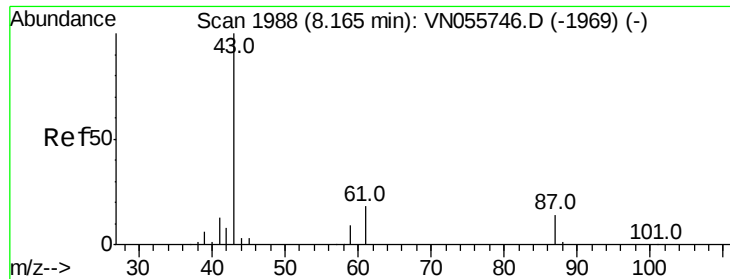
5/24/2019 9:20:57 AM



#42
1,2-Dichloroethane
Concen: 20.933 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion:	62	Resp:	88949
Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.2





#43

Isopropyl Acetate

Concen: 19.968 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampled :

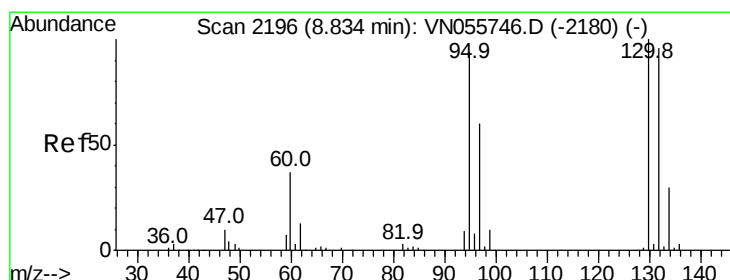
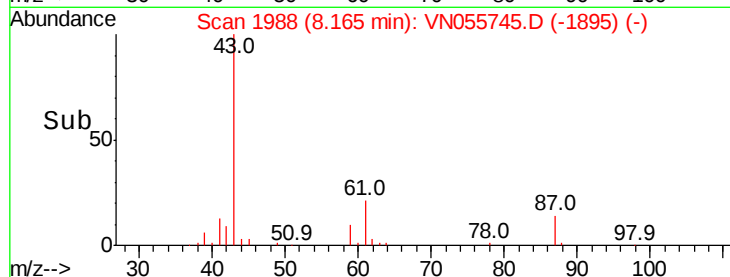
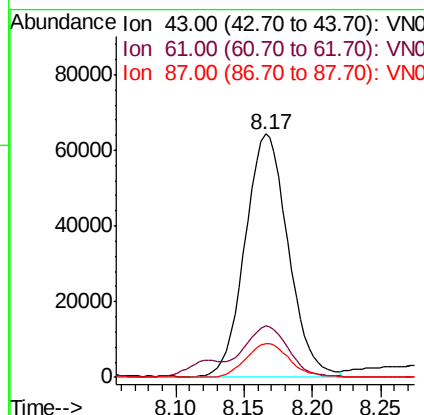
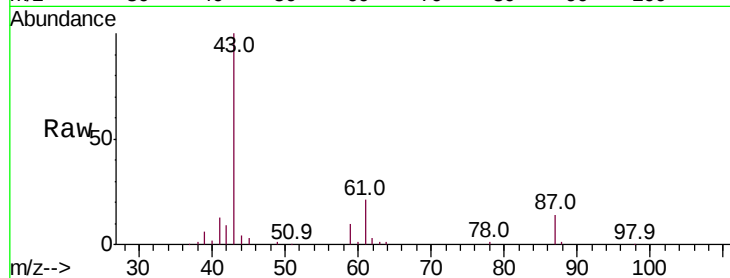
VSTDIC020

Tot Ion:	43	Resp:	140062
Ion Ratio	Lower	Upper	
43	100		
61	21.3	22.2	33.4#
87	14.3	11.4	17.2

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#44

Trichloroethene

Concen: 20.022 ug/l

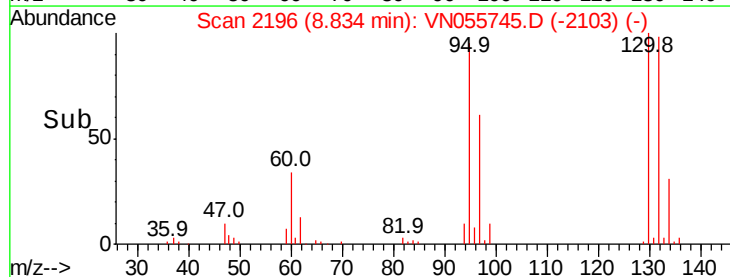
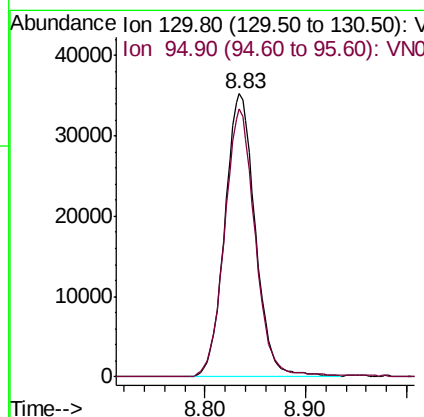
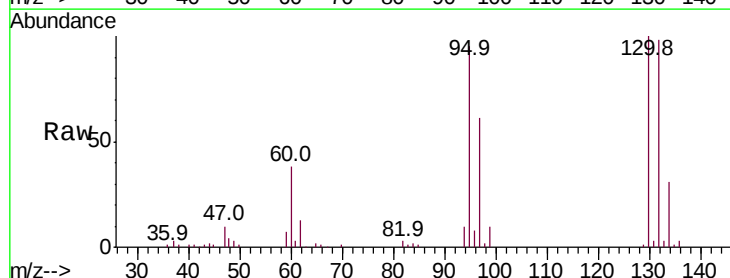
RT: 8.83 min Scan# 2196

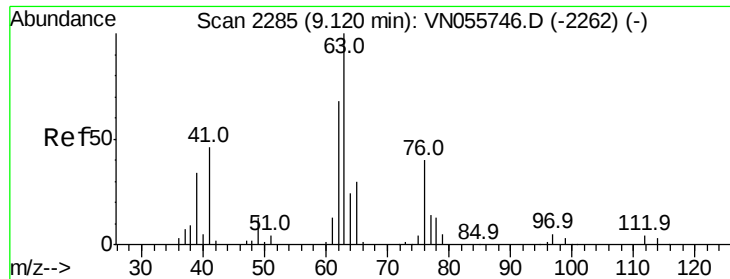
Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Tgt Ion:	130	Resp:	74207
Ion Ratio	Lower	Upper	
130	100		
95	94.6	0.0	188.0





#45
 1,2-Dichloropropane
 Concen: 20.170 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

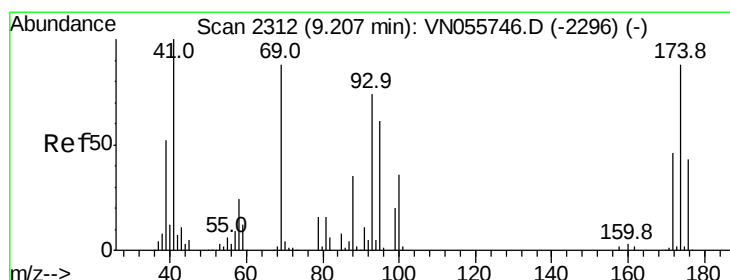
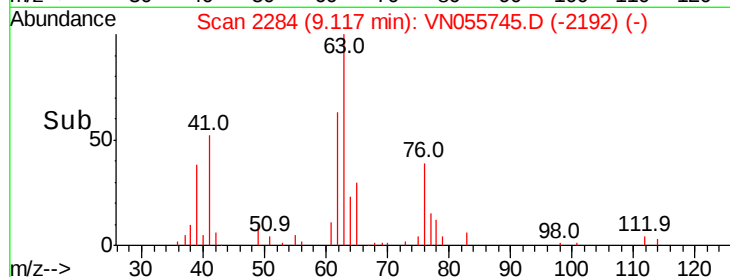
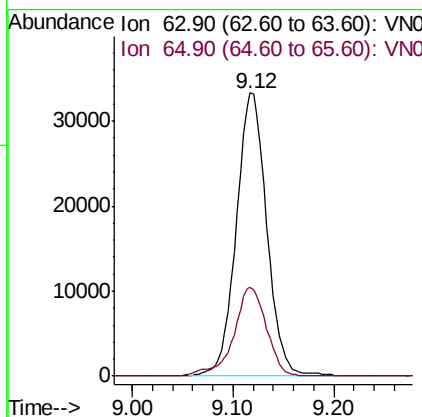
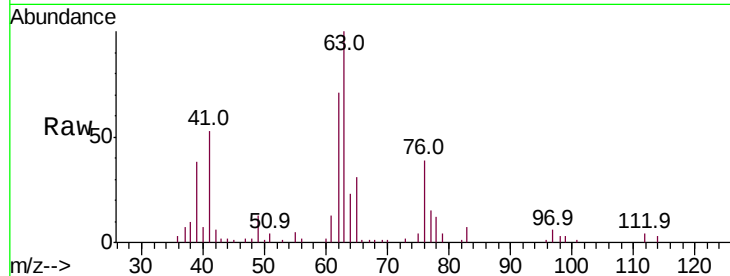
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 69781
 Ion Ratio Lower Upper
 63 100
 65 31.4 24.6 36.8

Manual Integrations
 APPROVED

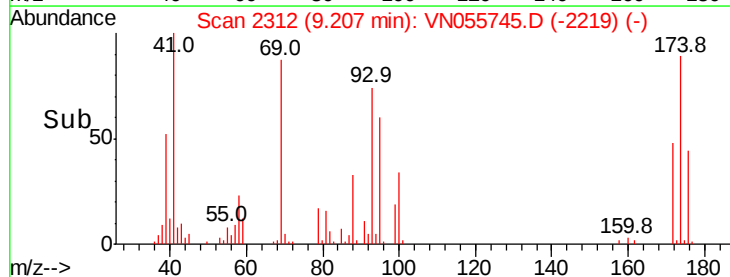
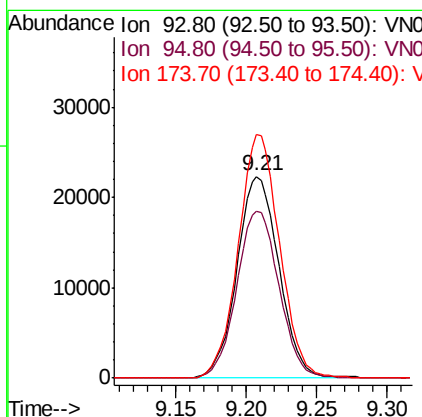
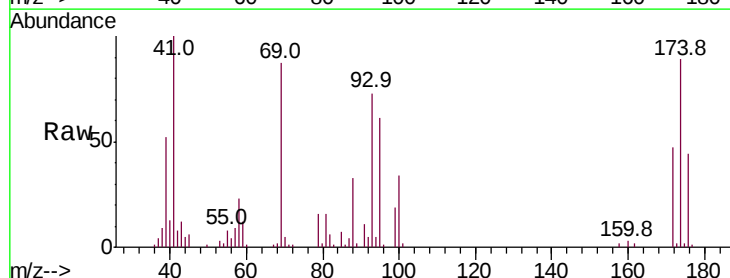
MMDadoda

5/24/2019 9:20:57 AM



#46
 Dibromomethane
 Concen: 20.472 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion: 93 Resp: 46426
 Ion Ratio Lower Upper
 93 100
 95 83.7 66.7 100.1
 174 119.3 96.4 144.6





#47
Bromodichloromethane
Concen: 19.605 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

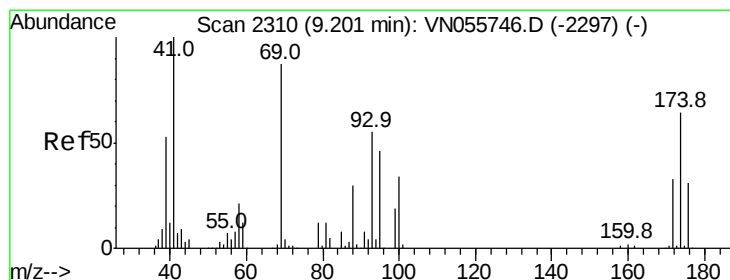
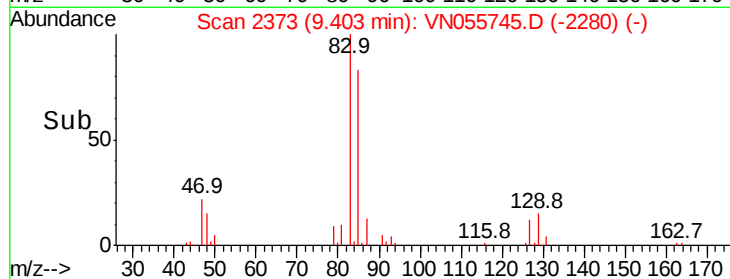
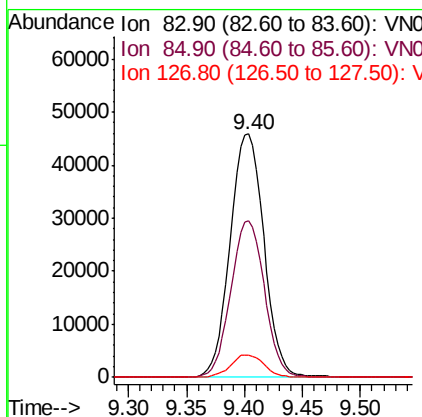
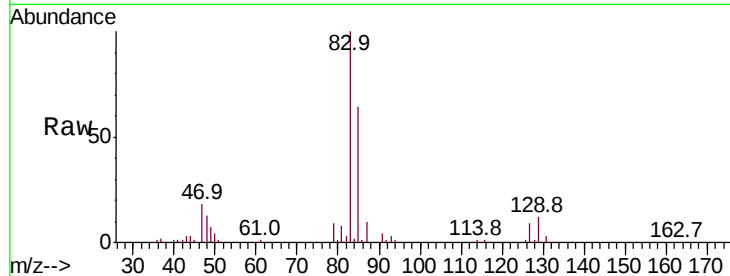
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	92795
Ion Ratio	100	Lower	Upper
83	100		
85	64.3	52.2	78.2
127	9.2	7.4	11.0

Manual Integrations
APPROVED

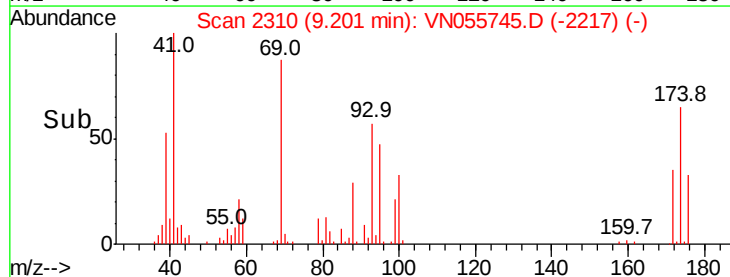
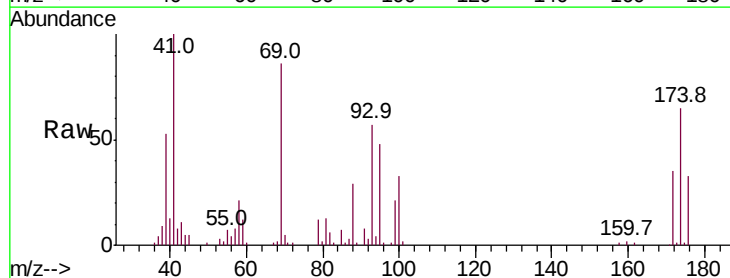
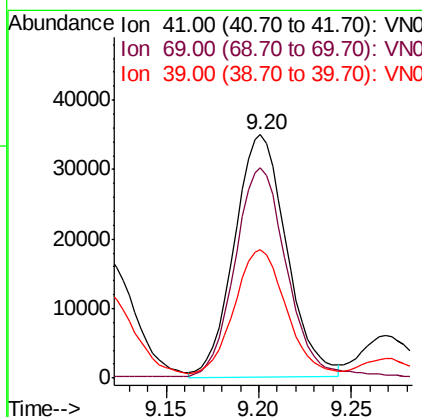
MMDadoda

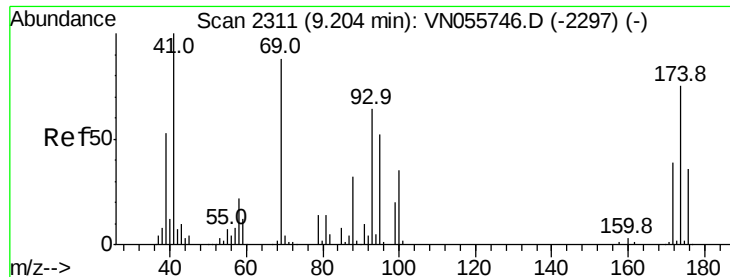
5/24/2019 9:20:57 AM



#48
Methyl methacrylate
Concen: 21.766 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	41	Resp	68403
Ion Ratio	100	Lower	Upper
41	100		
69	85.5	71.0	106.6
39	54.0	44.2	66.2





#49

1,4-Dioxane

Concen: 434.175 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 88 Resp: 27041

Ion Ratio Lower Upper

88 100

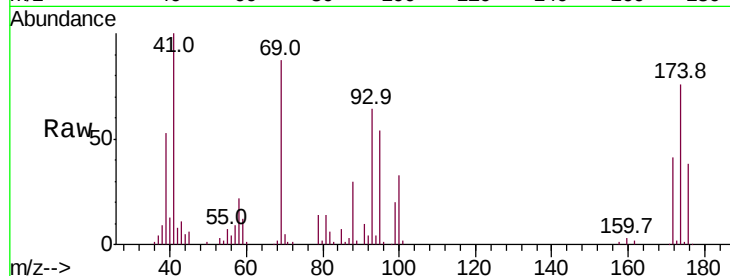
43 27.6 20.5 30.7

58 66.0 55.8 83.6

Manual Integrations
APPROVED

MMDadoda

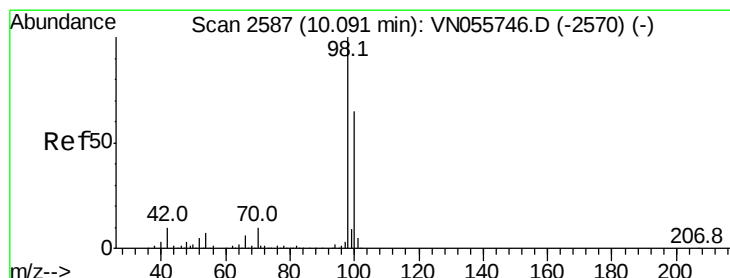
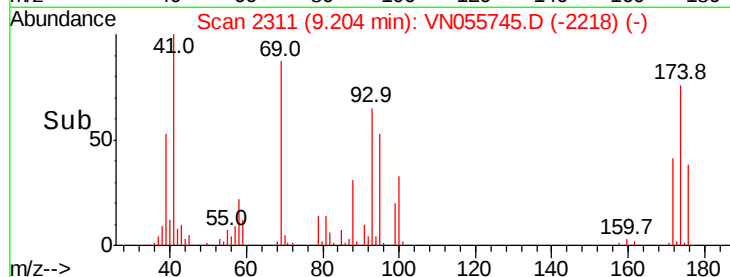
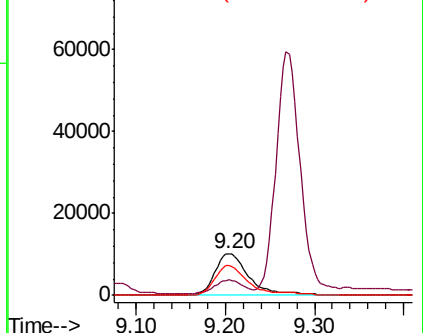
5/24/2019 9:20:57 AM



Abundance Ion 88.00 (87.70 to 88.70): VN055745.D (-2297) (-)

Ion 43.00 (42.70 to 43.70): VN055745.D (-2297) (-)

Ion 58.00 (57.70 to 58.70): VN055745.D (-2297) (-)



#50

Toluene-d8

Concen: 21.873 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055745.D

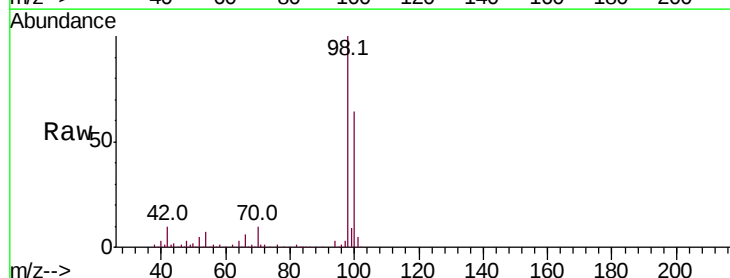
Acq: 23 May 2019 10:10

Tgt Ion: 98 Resp: 263378

Ion Ratio Lower Upper

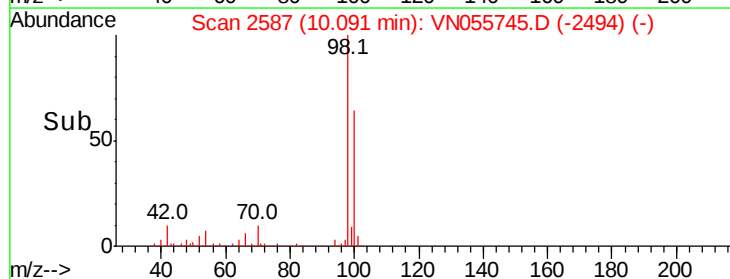
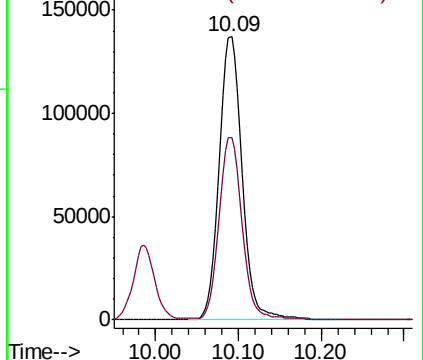
98 100

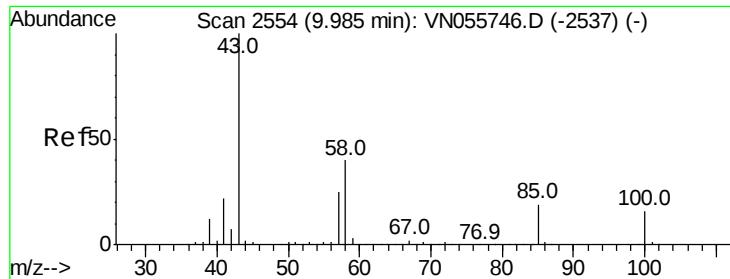
100 64.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055745.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN055745.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 102.301 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 424017

Ion Ratio Lower Upper

43 100

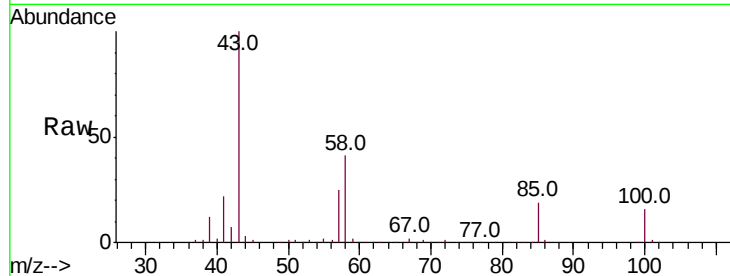
58 40.5 32.1 48.1

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:20:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

250000

200000

150000

100000

50000

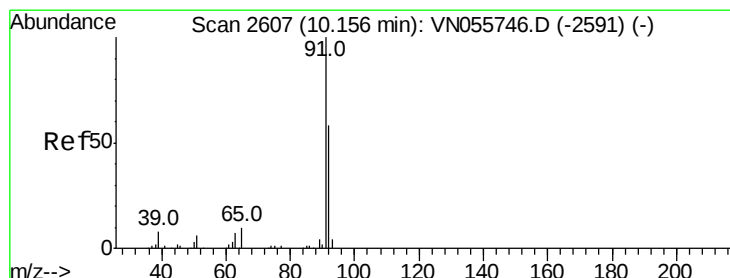
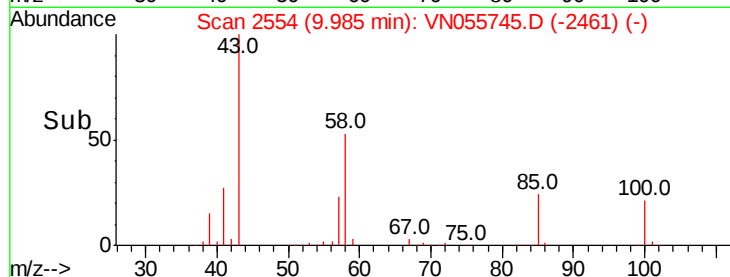
0

9.90

10.00

10.10

Time-->



#52

Toluene

Concen: 20.410 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055745.D

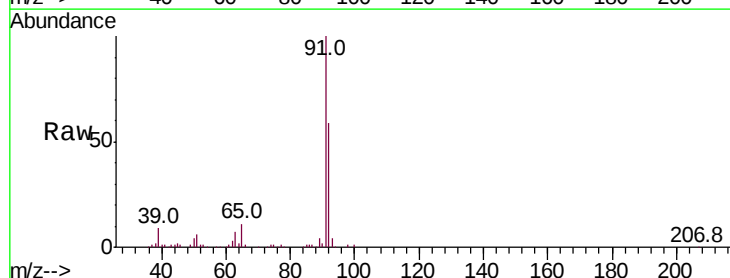
Acq: 23 May 2019 10:10

Tgt Ion: 92 Resp: 168714

Ion Ratio Lower Upper

92 100

91 172.1 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

150000

100000

50000

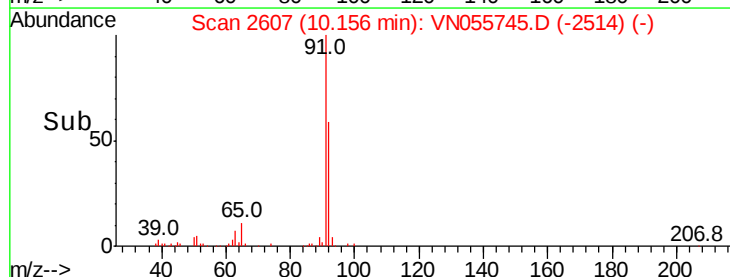
0

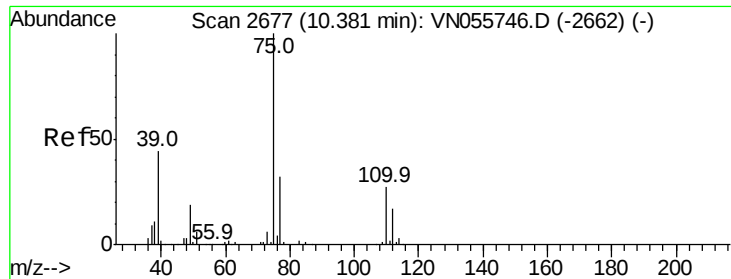
10.10

10.20

10.30

Time-->





#53
t-1,3-Dichloropropene
Concen: 19.460 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

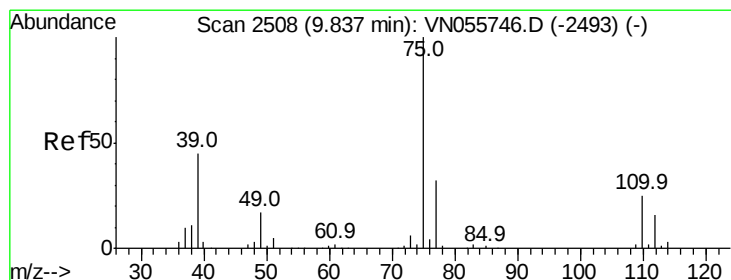
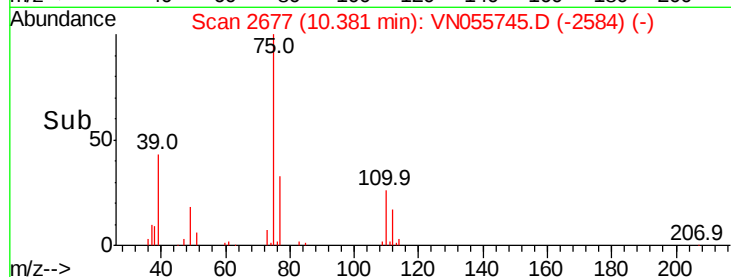
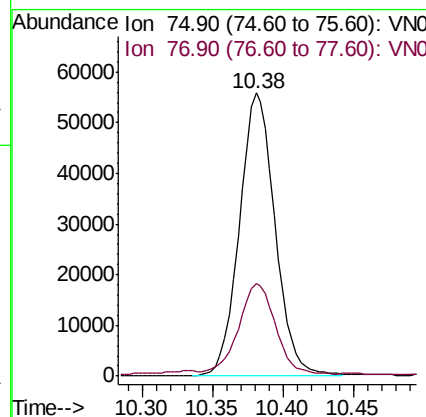
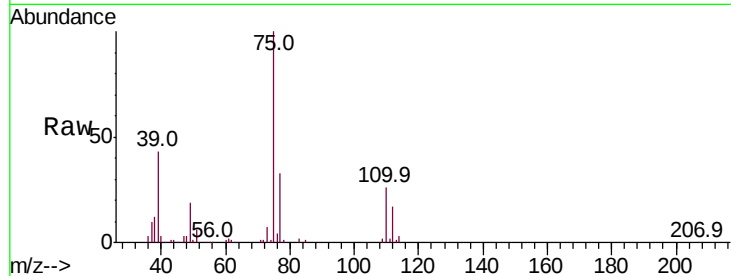
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	75	Resp	98947
Ion Ratio	100	Lower	Upper
77	31.6	25.8	38.6

Manual Integrations
APPROVED

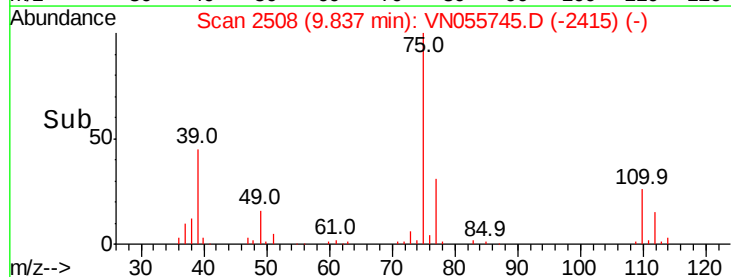
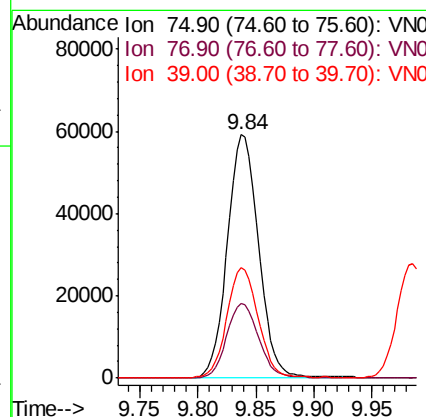
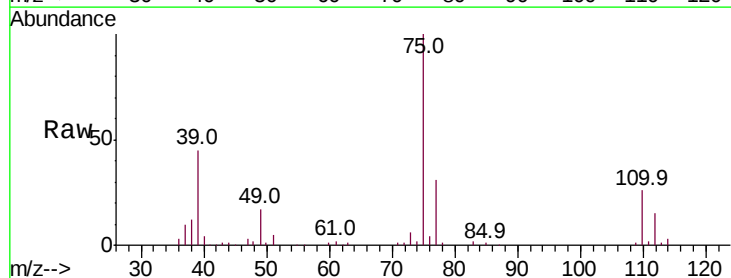
MMDadoda

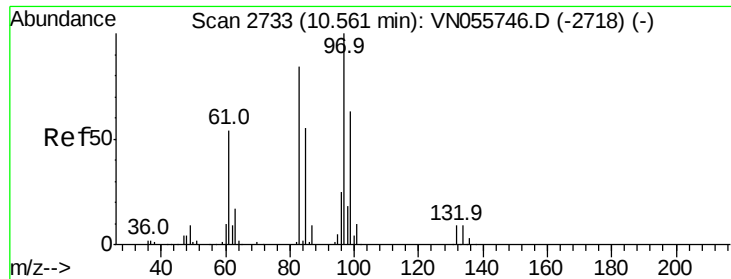
5/24/2019 9:20:57 AM



#54
cis-1,3-Dichloropropene
Concen: 19.834 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	75	Resp	110527
Ion Ratio	100	Lower	Upper
77	30.8	25.4	38.0
39	44.9	36.3	54.5





#55
 1,1,2-Trichloroethane
 Concen: 20.040 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

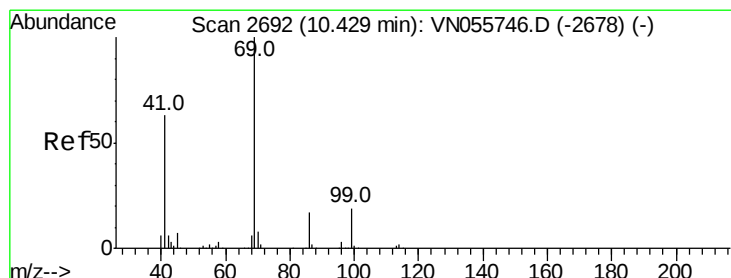
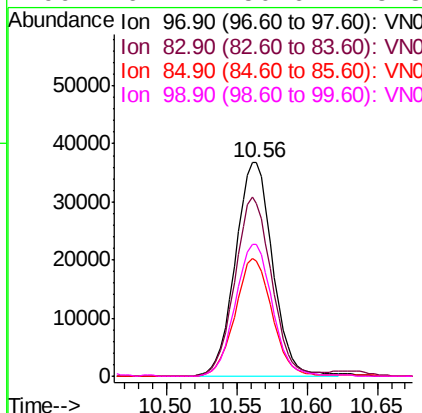
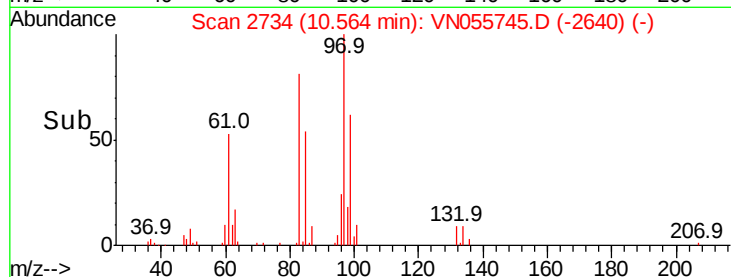
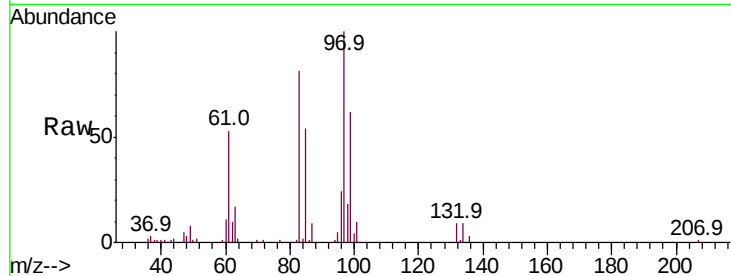
Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion:	97	Resp:	68122
Ion	Ratio	Lower	Upper
97	100		
83	81.2	67.0	100.6
85	53.9	44.0	66.0
99	61.7	50.6	75.8

Manual Integrations
 APPROVED

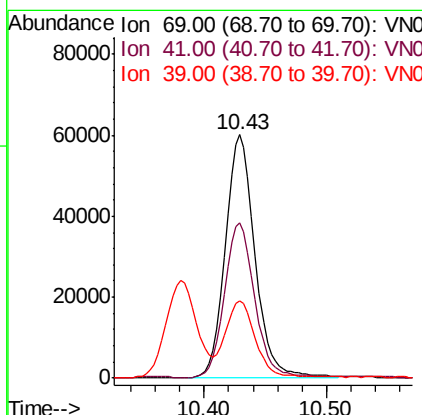
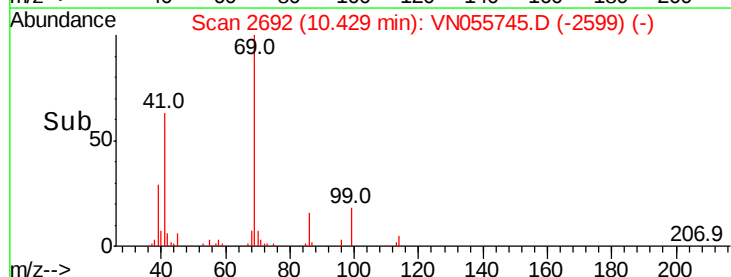
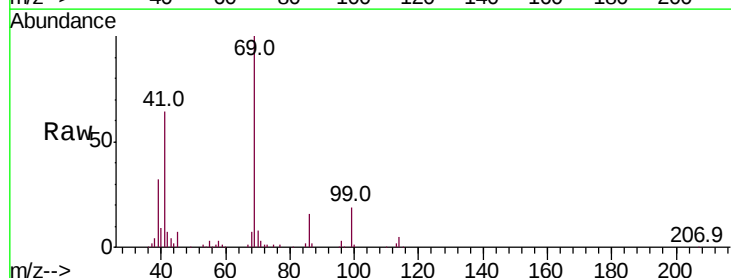
MMDadoda

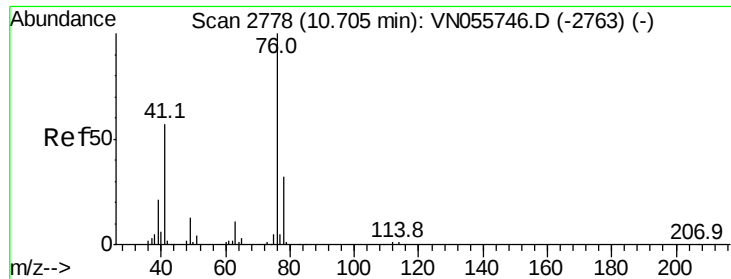
5/24/2019 9:20:57 AM



#56
 Ethyl methacrylate
 Concen: 19.325 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion:	69	Resp:	102595
Ion	Ratio	Lower	Upper
69	100		
41	64.1	49.7	74.5
39	32.0	24.7	37.1





#57

1,3-Dichloropropane

Concen: 20.439 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 109853

Ion Ratio Lower Upper

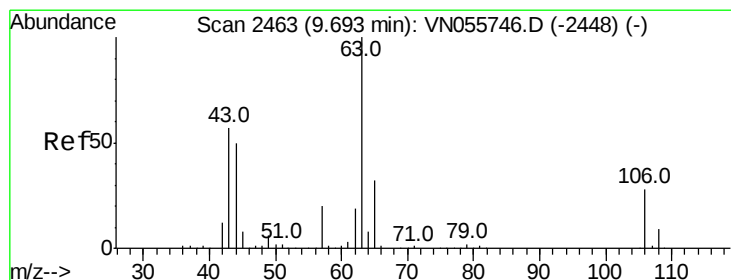
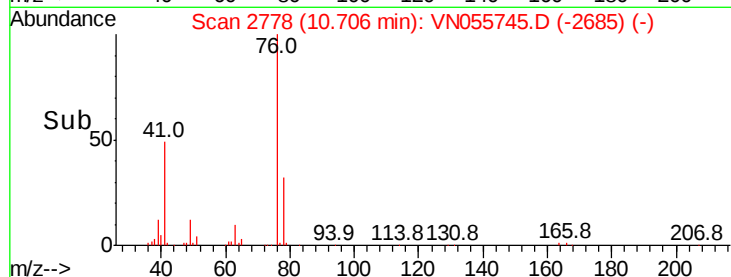
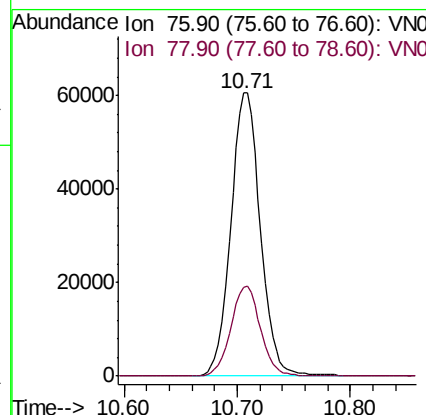
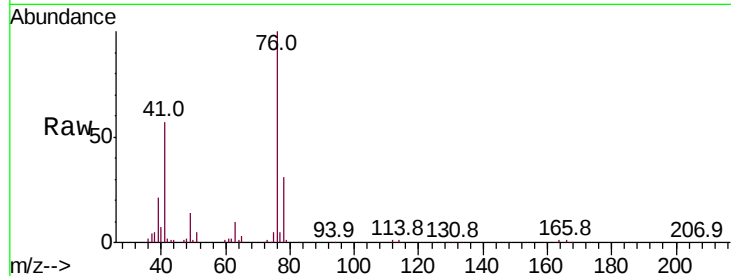
76 100

78 31.9 25.8 38.6

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#58

2-Chloroethyl Vinyl ether

Concen: 86.137 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN055745.D

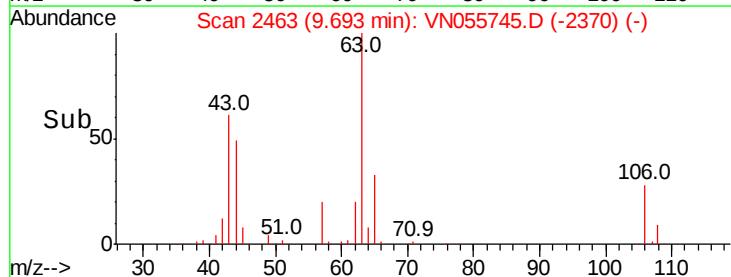
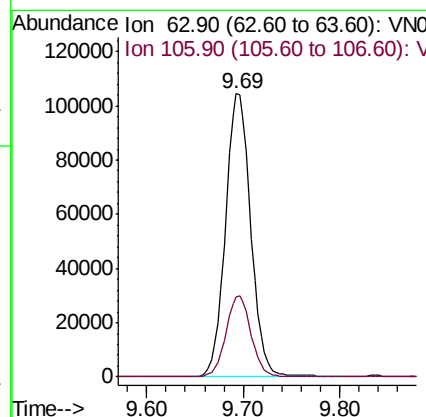
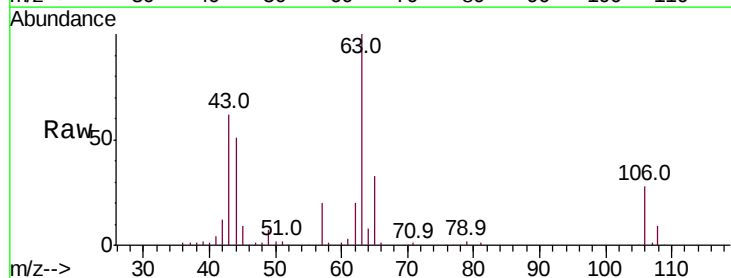
Acq: 23 May 2019 10:10

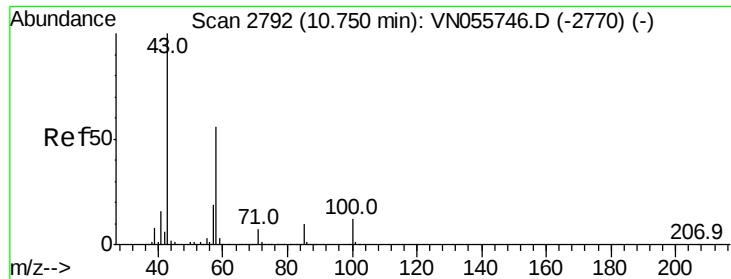
Tgt Ion: 63 Resp: 189888

Ion Ratio Lower Upper

63 100

106 28.2 22.7 34.1





#59
2-Hexanone
Concen: 102.987 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

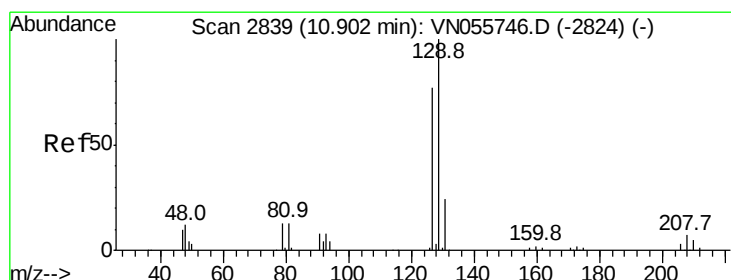
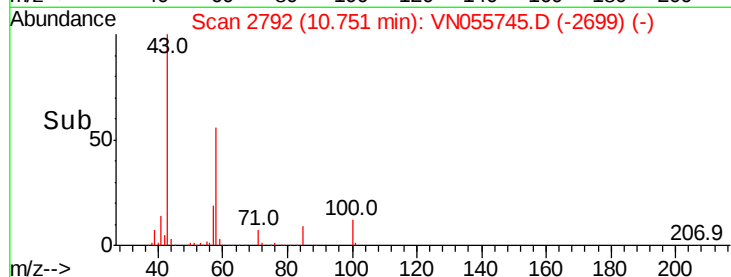
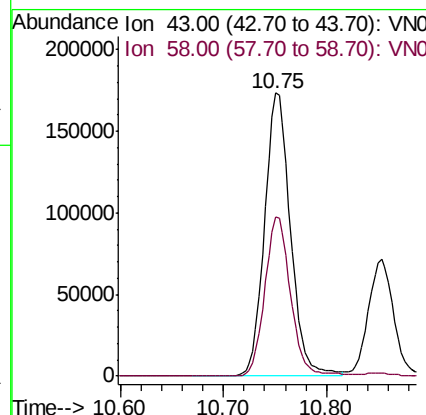
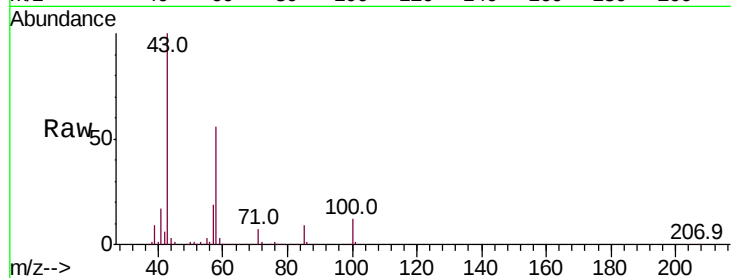
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 299988
Ion Ratio Lower Upper
43 100
58 56.2 28.2 84.7

Manual Integrations
APPROVED

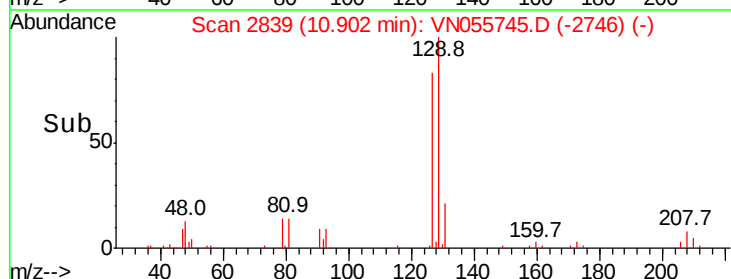
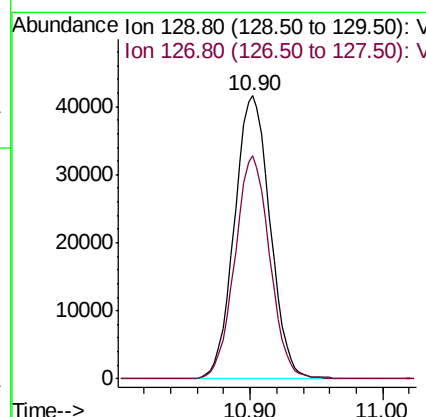
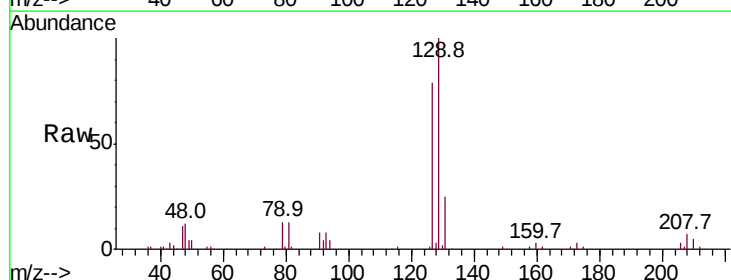
MMDadoda

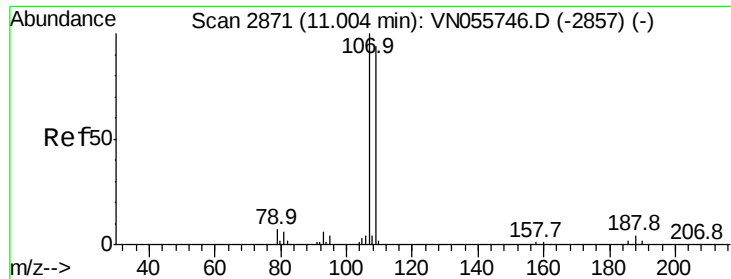
5/24/2019 9:20:57 AM



#60
Dibromochloromethane
Concen: 20.156 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion: 129 Resp: 77667
Ion Ratio Lower Upper
129 100
127 76.7 38.1 114.3





#61
 1,2-Dibromoethane
 Concen: 20.170 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

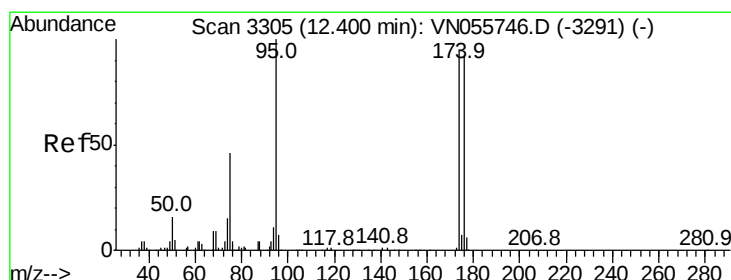
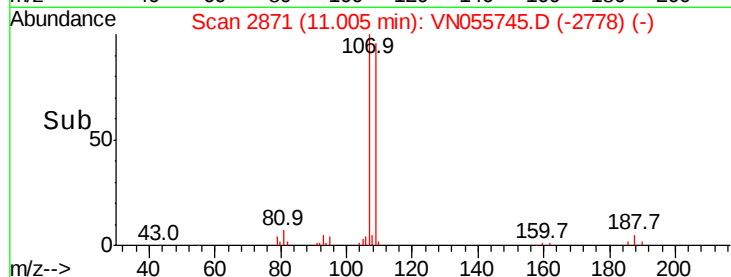
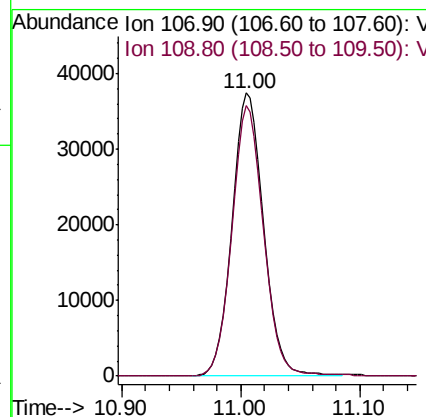
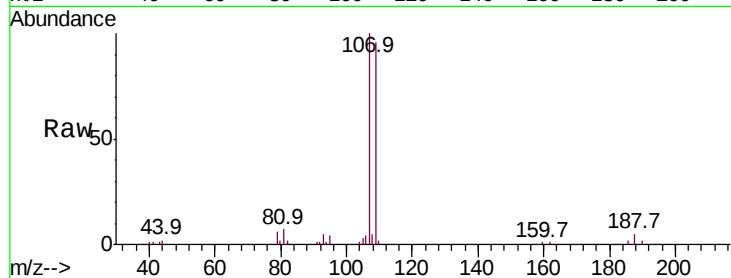
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.3	74.8	112.2

Manual Integrations
 APPROVED

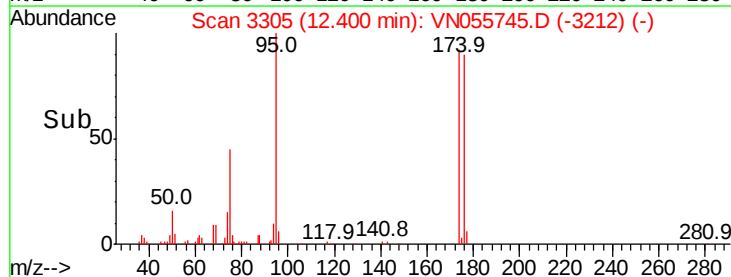
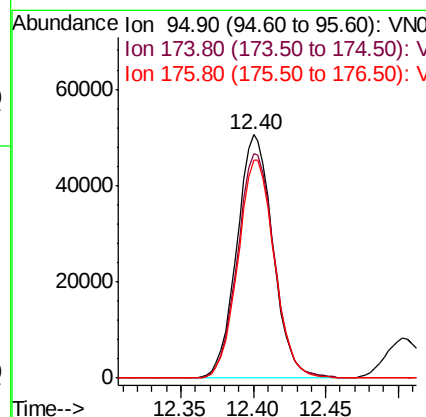
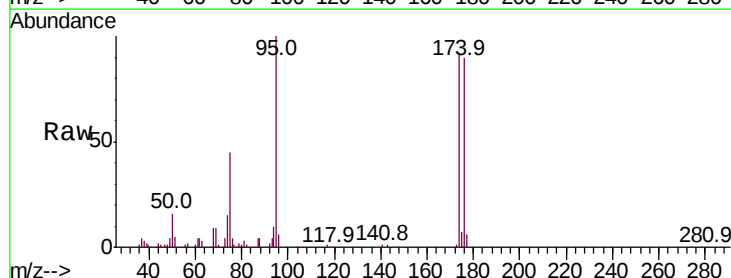
MMDadoda

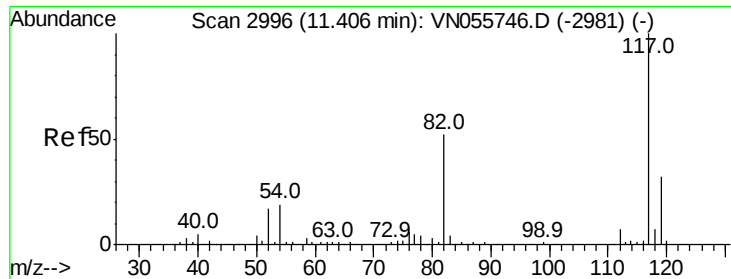
5/24/2019 9:20:57 AM



#62
 4-Bromofluorobenzene
 Concen: 20.963 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.0	0.0	191.0
176	90.4	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: VN055745.D
Acq: 23 May 2019 10:10

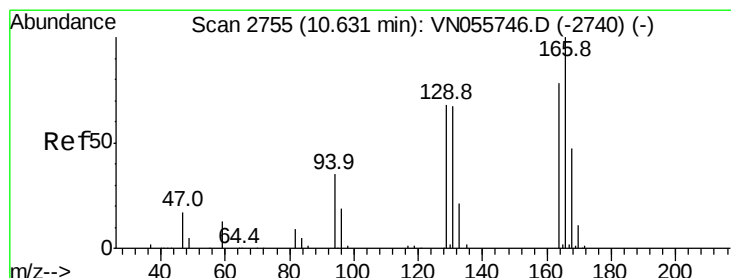
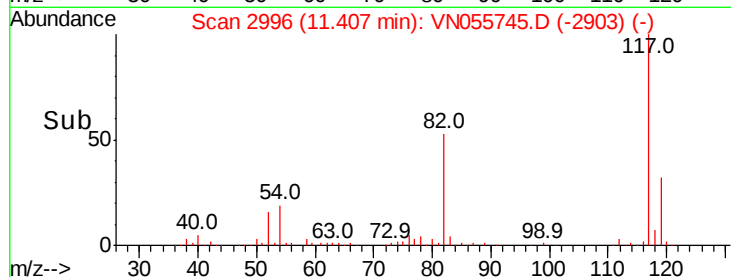
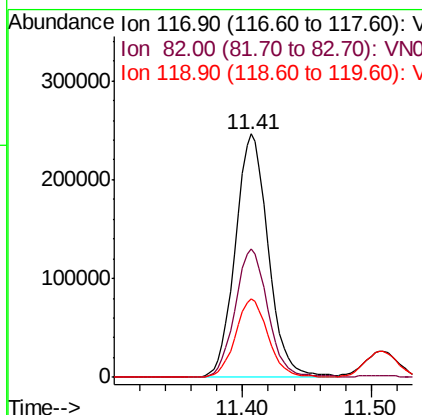
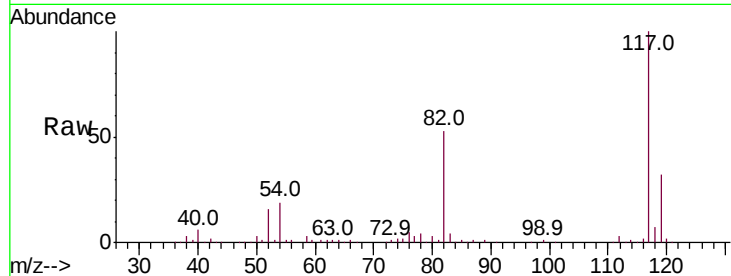
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	41.8	62.8
119	32.3	25.4	38.0

Manual Integrations
APPROVED

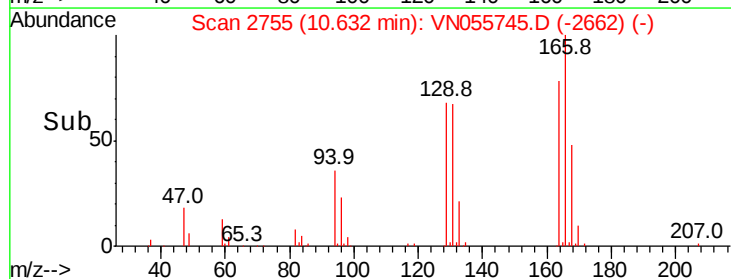
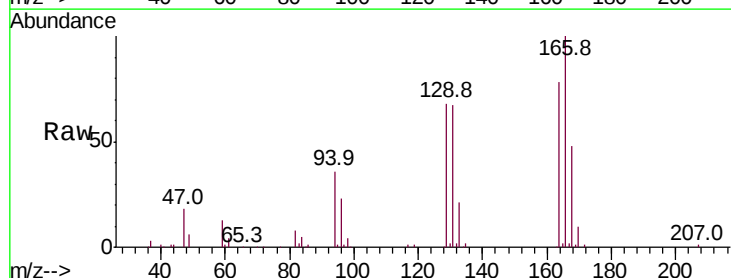
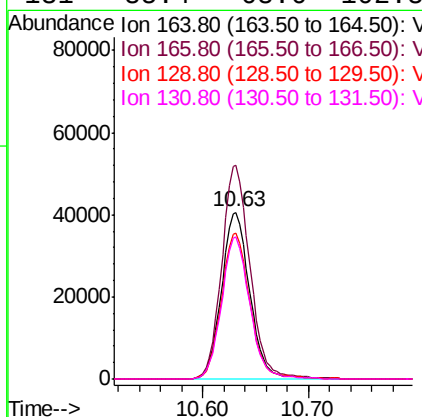
MMDadoda

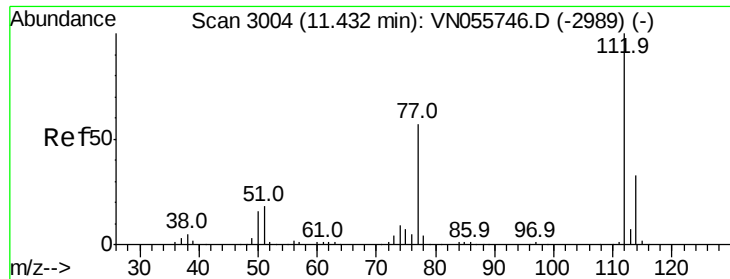
5/24/2019 9:20:57 AM



#64
Tetrachloroethene
Concen: 21.702 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.3	103.0	154.6
129	87.8	70.6	105.8
131	85.4	68.6	102.8





#65

Chlorobenzene

Concen: 19.891 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:112 Resp: 175654

Ion Ratio Lower Upper

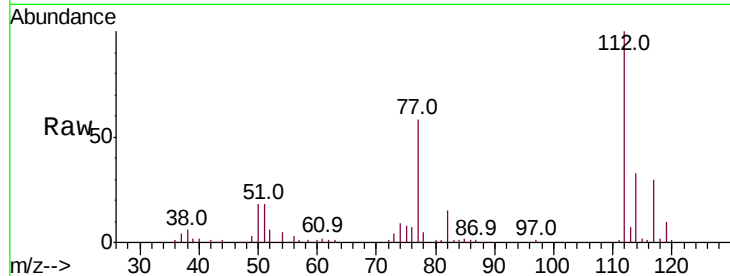
112 100

114 32.9 26.2 39.4

Manual Integrations
APPROVED

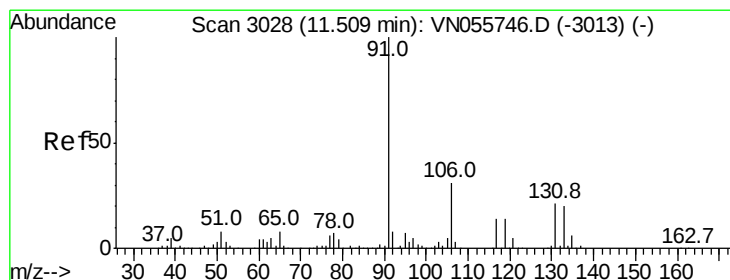
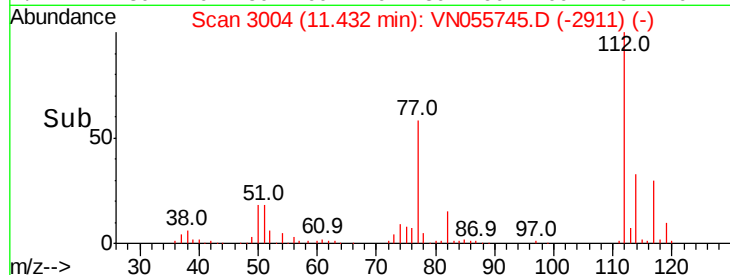
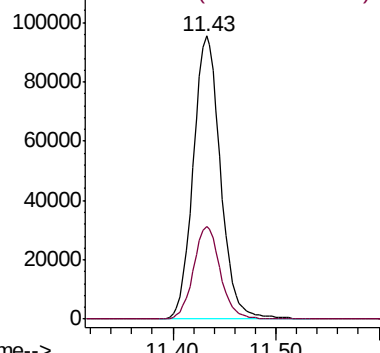
MMDadoda

5/24/2019 9:20:57 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.671 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

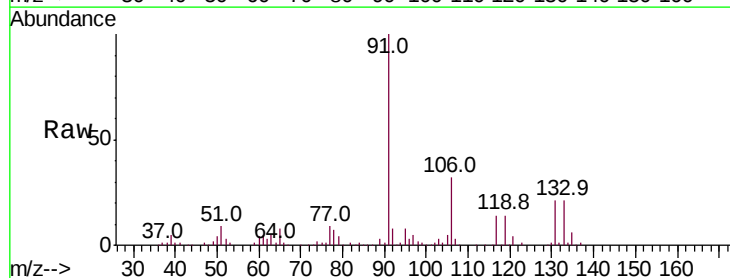
Tgt Ion:131 Resp: 69804

Ion Ratio Lower Upper

131 100

133 97.7 48.0 144.0

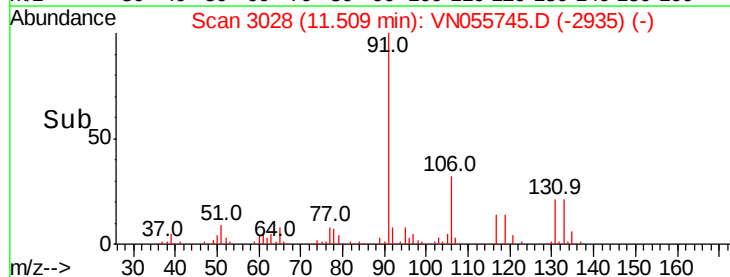
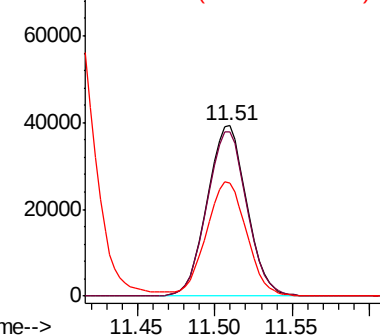
119 68.9 33.1 99.5



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67
Ethyl Benzene
Concen: 20.058 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

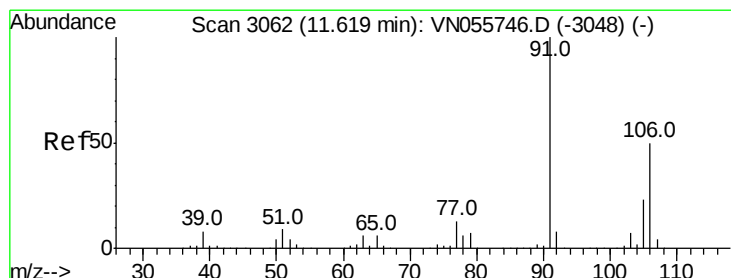
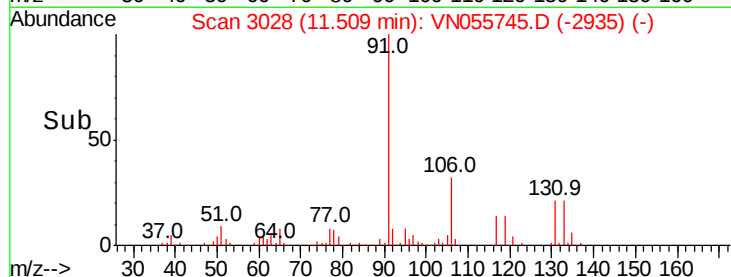
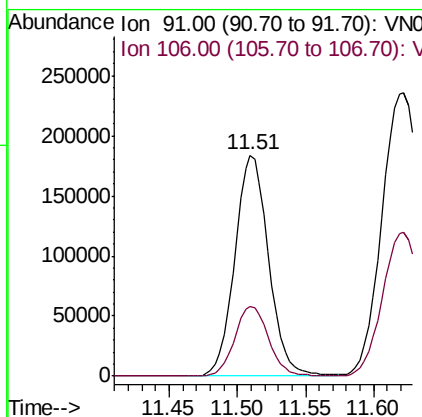
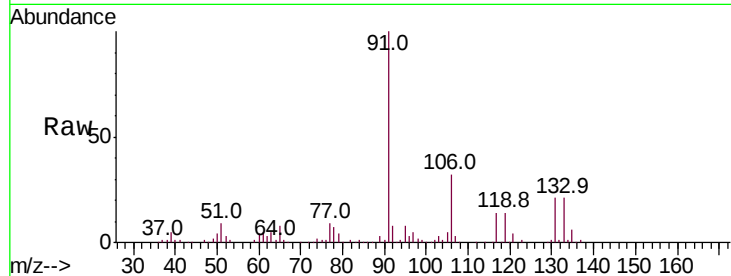
Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 91 Resp: 316323
Ion Ratio Lower Upper
91 100
106 31.7 25.1 37.7

Manual Integrations
APPROVED

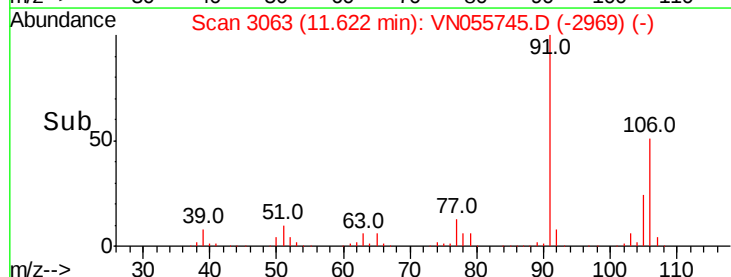
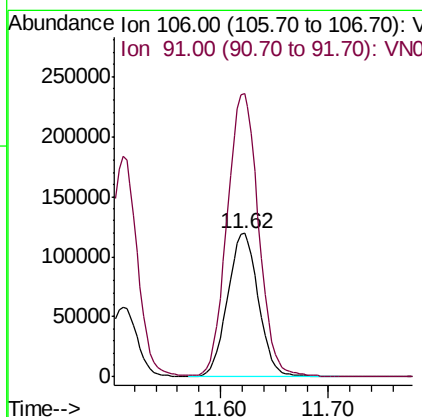
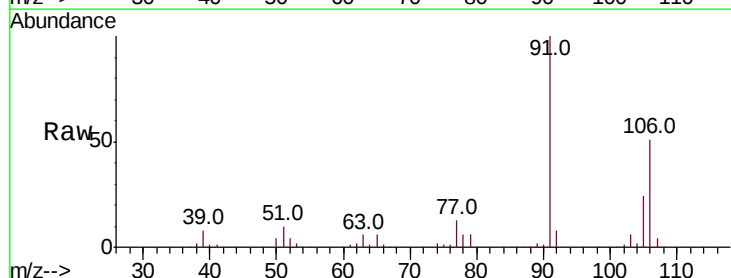
MMDadoda

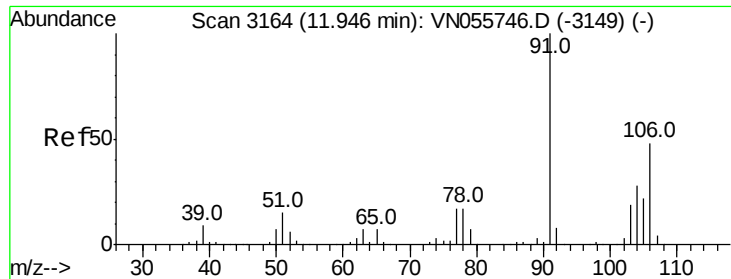
5/24/2019 9:20:57 AM



#68
m/p-Xylenes
Concen: 40.249 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion: 106 Resp: 239739
Ion Ratio Lower Upper
106 100
91 200.4 159.3 238.9





#69
o-Xylene
Concen: 20.532 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

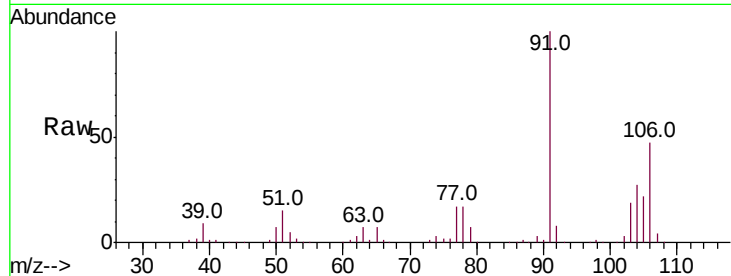
Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:106 Resp: 119986
Ion Ratio Lower Upper
106 100
91 208.1 104.7 314.1

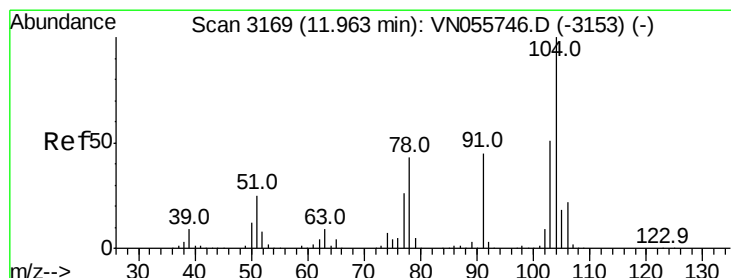
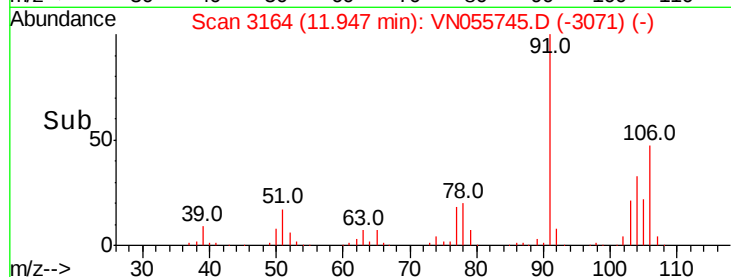
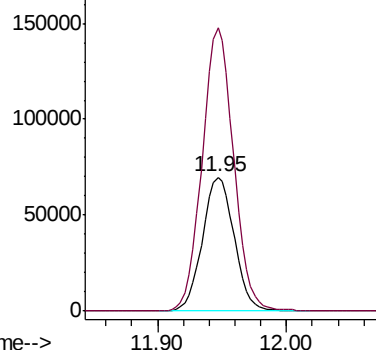
Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM

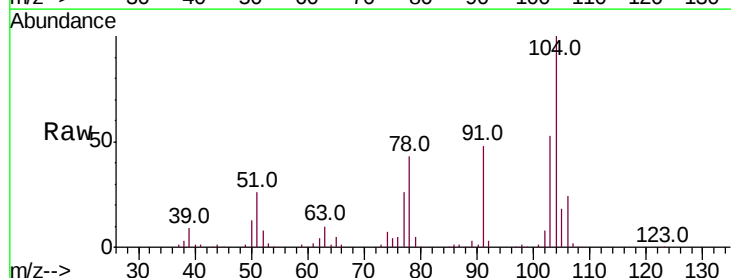


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

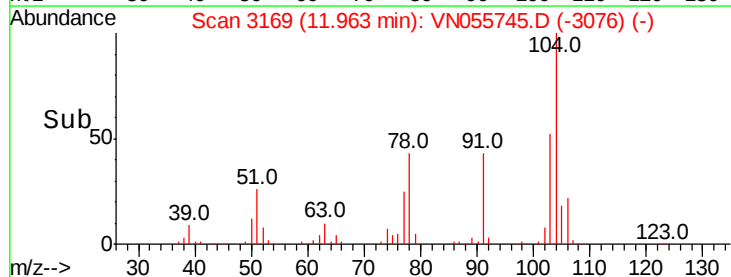
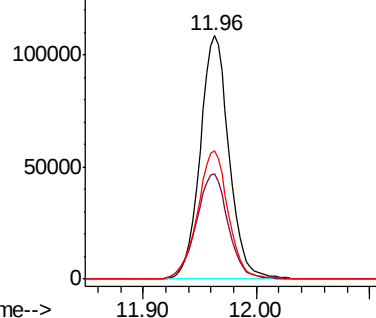


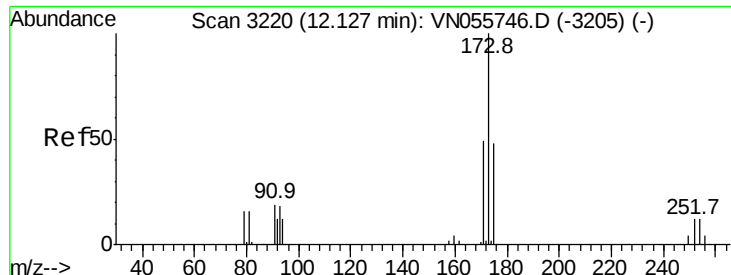
#70
Styrene
Concen: 19.879 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion:104 Resp: 192629
Ion Ratio Lower Upper
104 100
78 47.8 37.8 56.6
103 55.9 44.2 66.2



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71
Bromoform
Concen: 19.926 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

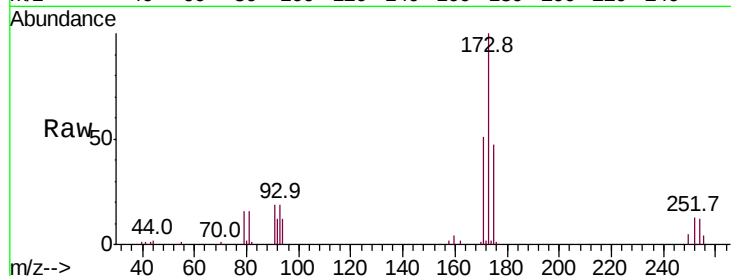
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.3	72.8
254	0.0	0.0	0.0

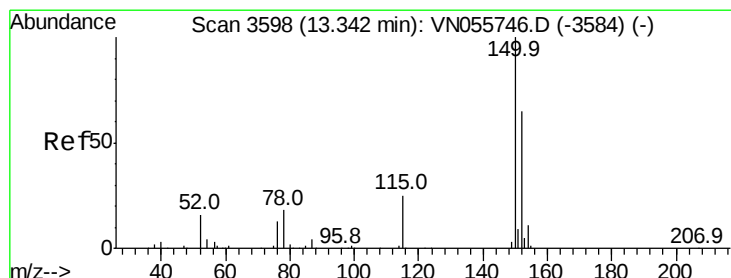
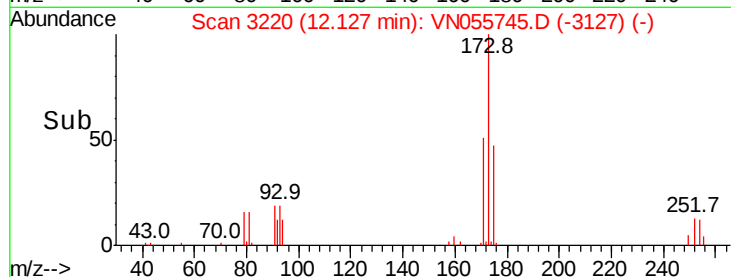
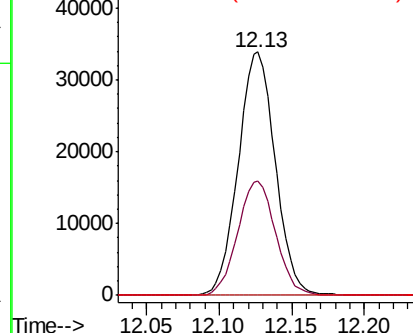
Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



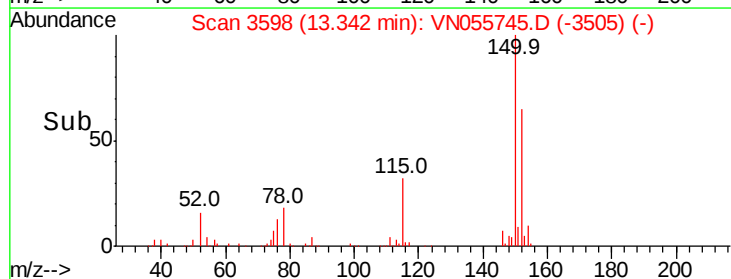
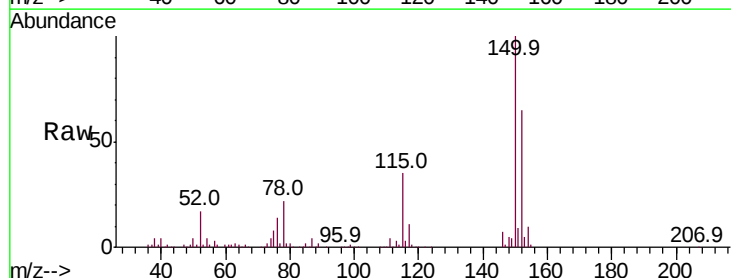
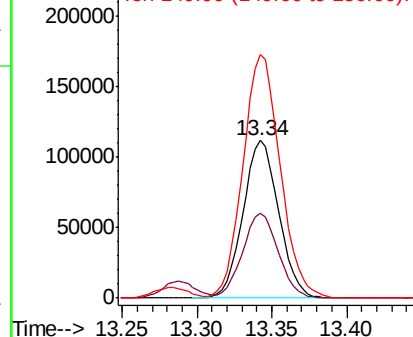
Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

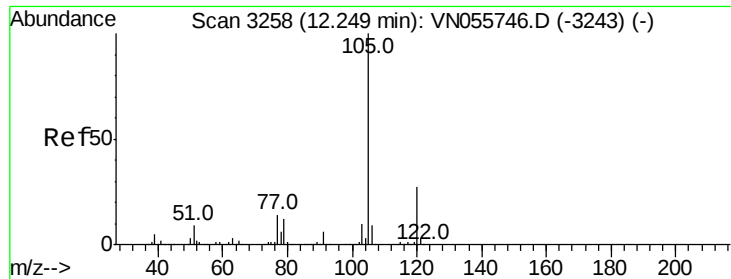


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.0	27.0	81.0
150	162.1	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: 20.726 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

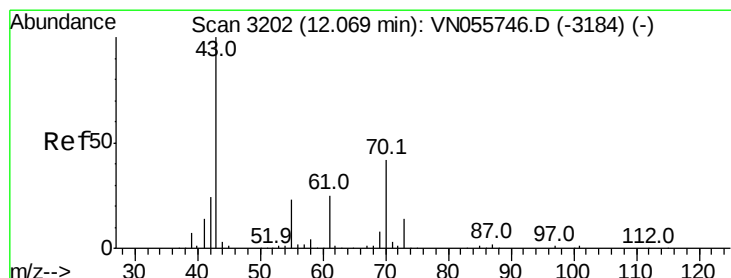
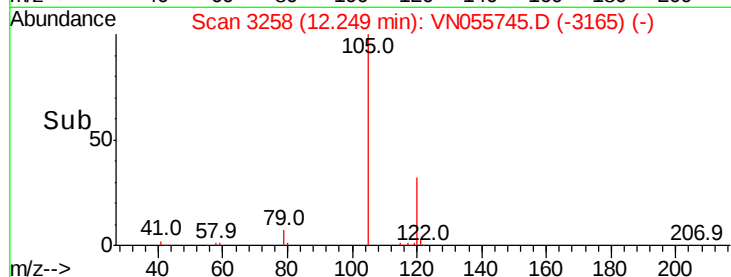
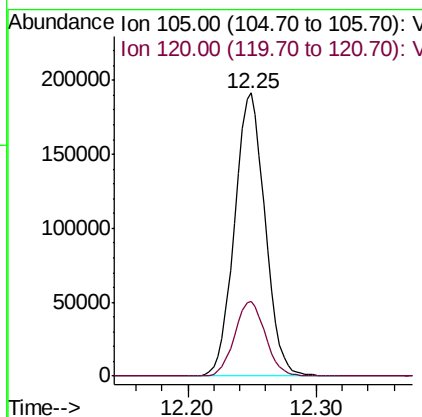
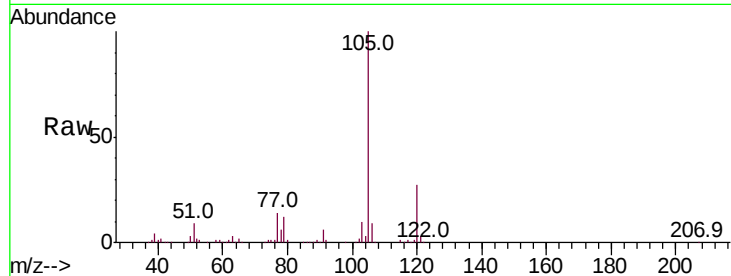
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.6	40.7

Manual Integrations
APPROVED

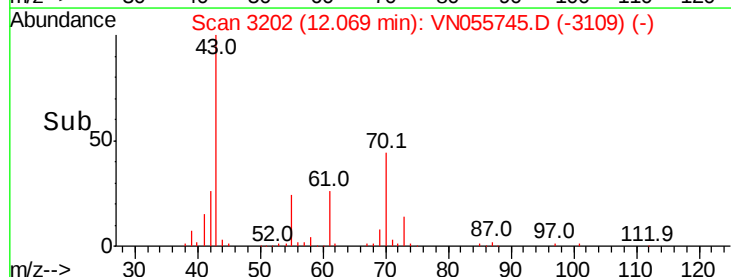
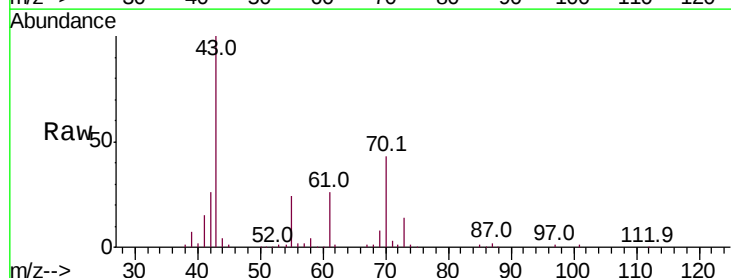
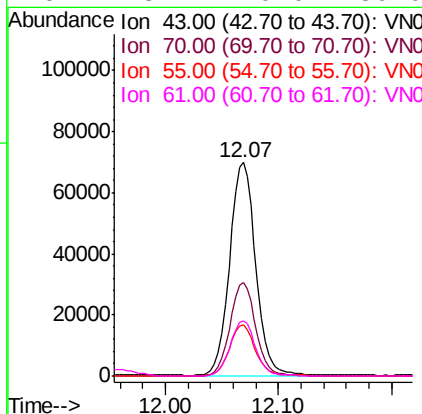
MMDadoda

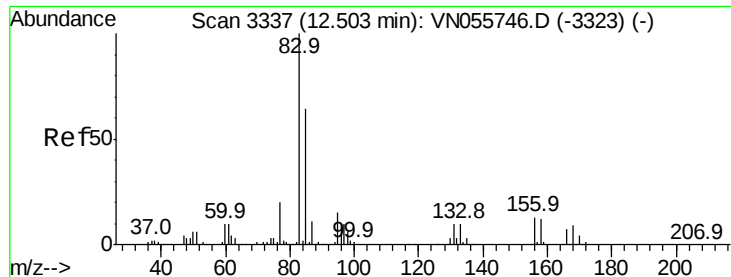
5/24/2019 9:20:57 AM



#74
N-ethyl acetate
Concen: 21.436 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.1	34.0	51.0
55	24.2	18.6	28.0
61	25.4	20.0	30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.027 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampled :

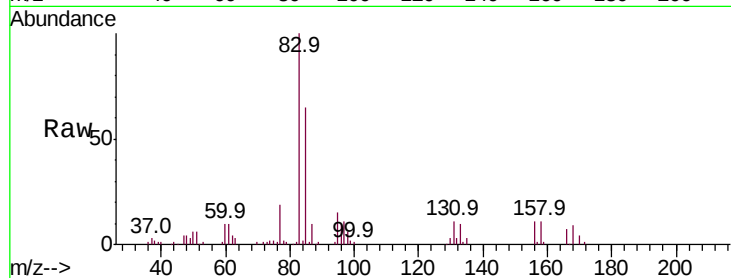
VSTDIC020

Tot Ion:	83	Resp:	93419
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.4	16.2
85	64.7	32.4	97.0

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM

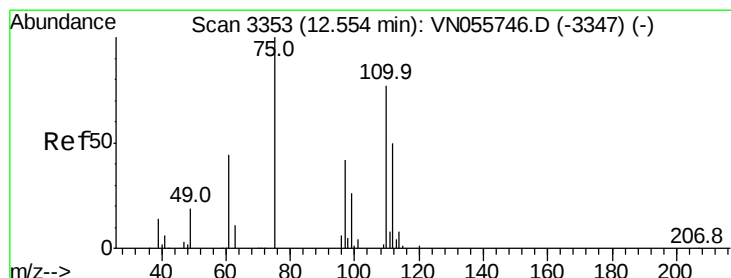
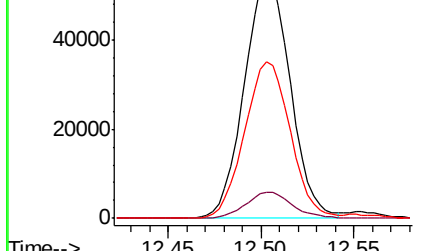
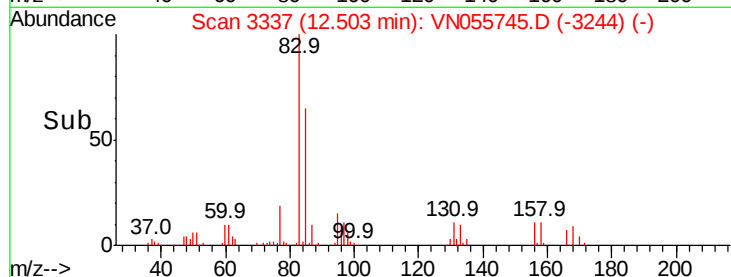


Abundance Ion 82.90 (82.60 to 83.60): VN055745.D (-3323) (-)

Ion 130.80 (130.50 to 131.50): VN055745.D (-3323) (-)

Ion 84.90 (84.60 to 85.60): VN055745.D (-3323) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 20.680 ug/l m

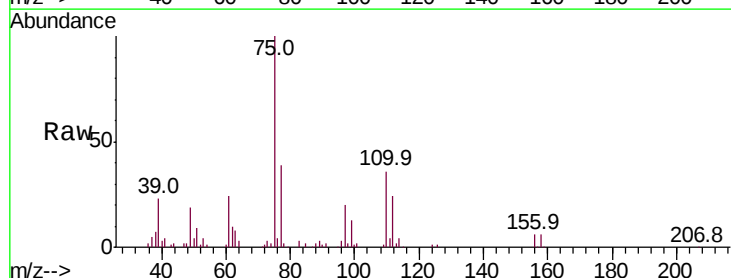
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

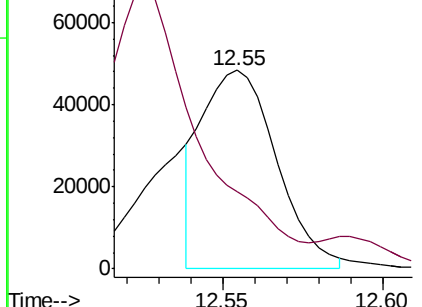
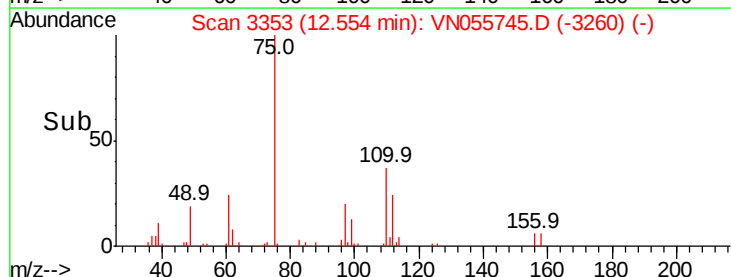
Tgt Ion:	75	Resp:	79020
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

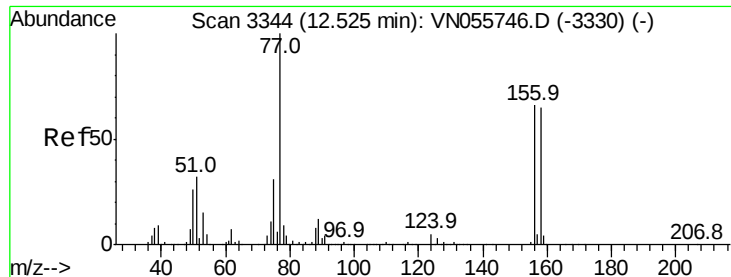


Abundance Ion 74.90 (74.60 to 75.60): VN055745.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN055745.D (-3347) (-)

Time-->





#77

Bromobenzene

Concen: 21.035 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 80632

Ion Ratio Lower Upper

156 100

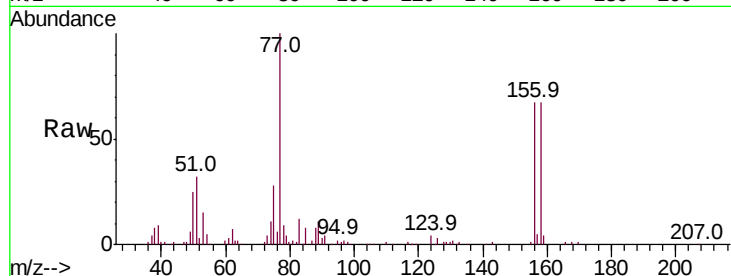
77 180.9 90.8 272.5

158 98.0 49.3 147.8

Manual Integrations
APPROVED

MMDadoda

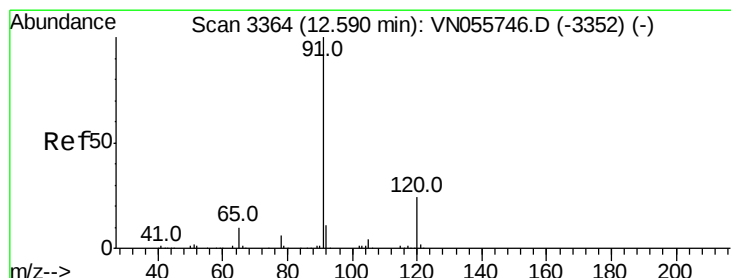
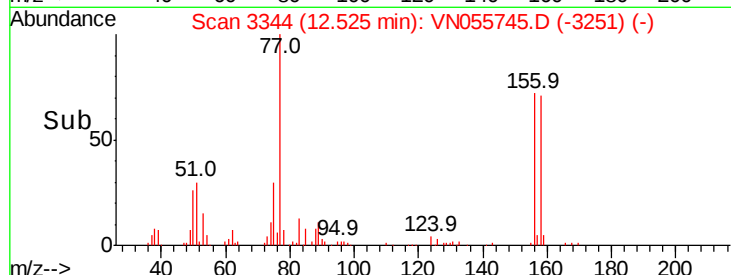
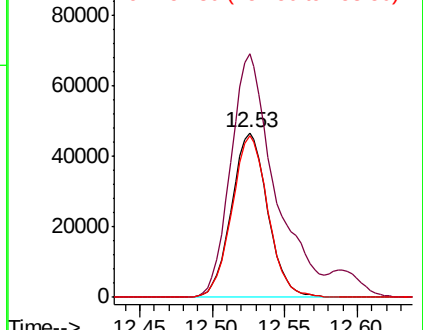
5/24/2019 9:20:57 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.700 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055745.D

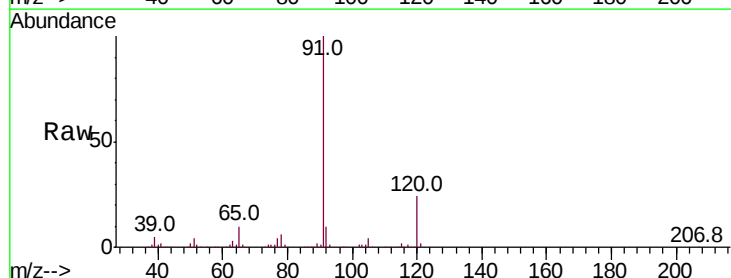
Acq: 23 May 2019 10:10

Tgt Ion: 91 Resp: 323464

Ion Ratio Lower Upper

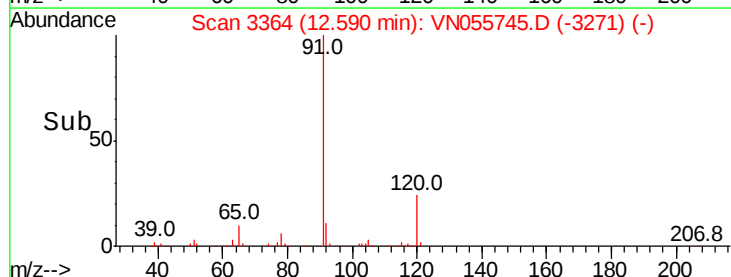
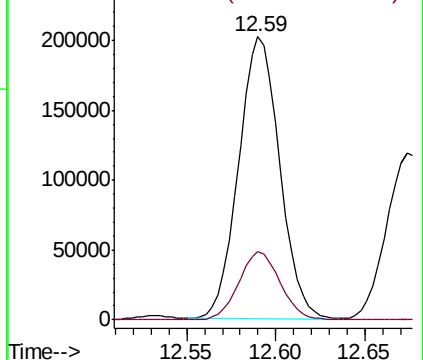
91 100

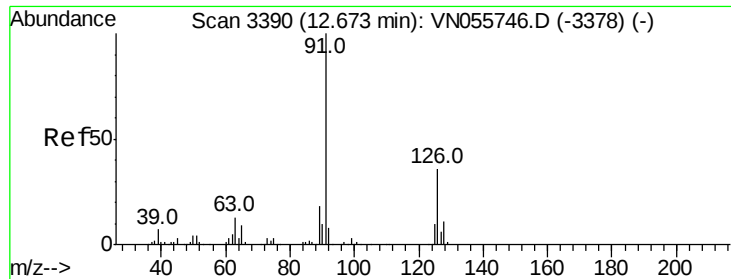
120 24.4 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.134 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 201393

Ion Ratio Lower Upper

91 100

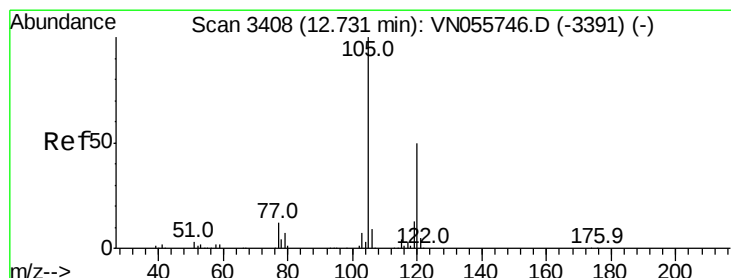
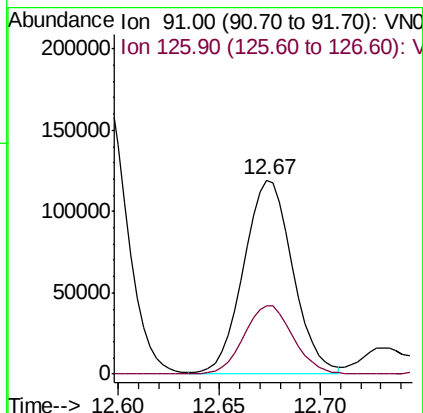
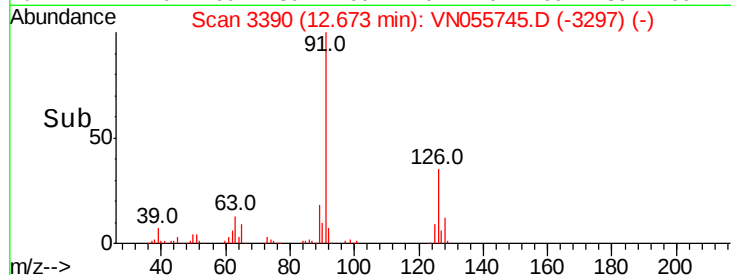
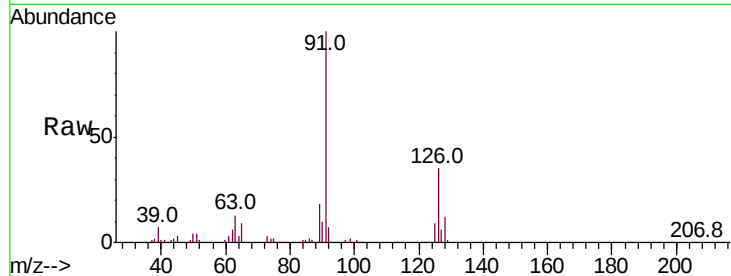
126 35.8 18.1 54.4

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#80

1,3,5-Trimethylbenzene

Concen: 20.238 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055745.D

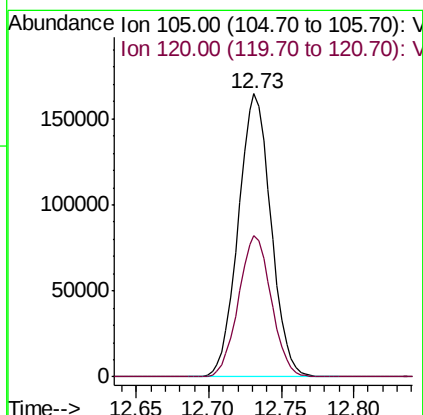
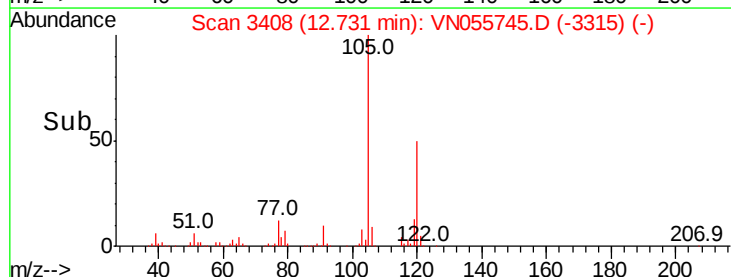
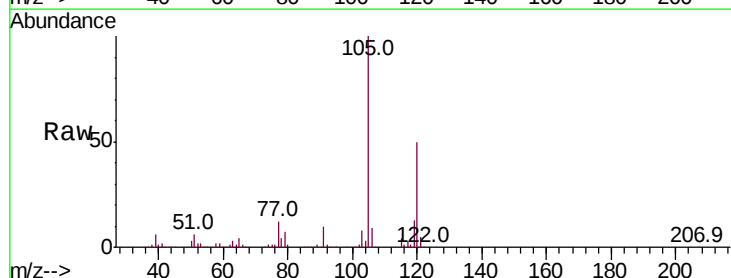
Acq: 23 May 2019 10:10

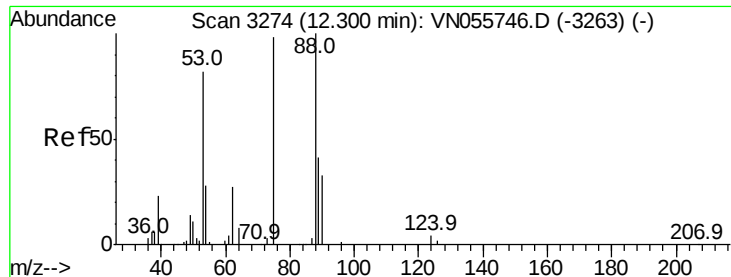
Tgt Ion: 105 Resp: 257501

Ion Ratio Lower Upper

105 100

120 50.1 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 19.493 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

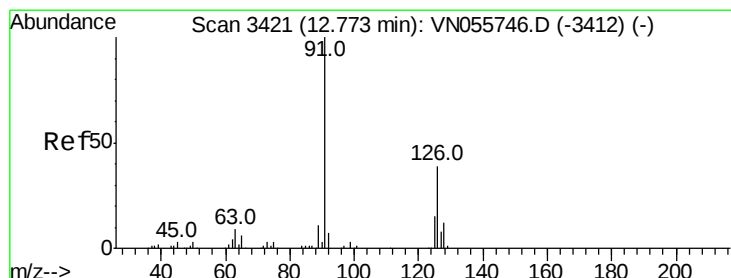
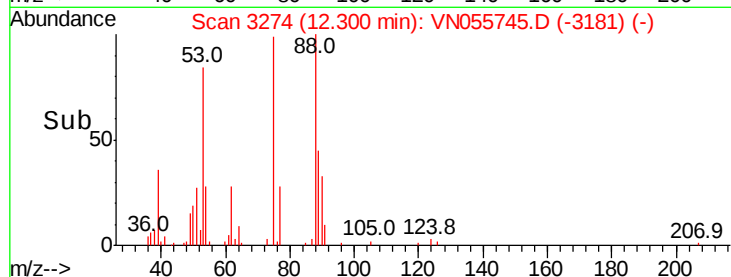
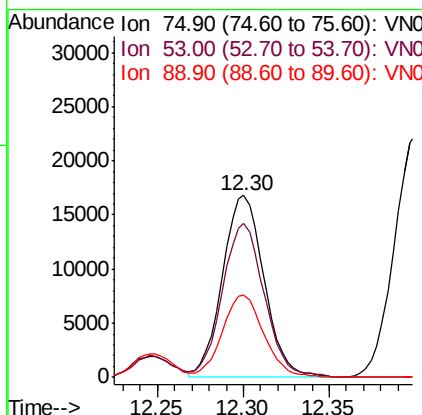
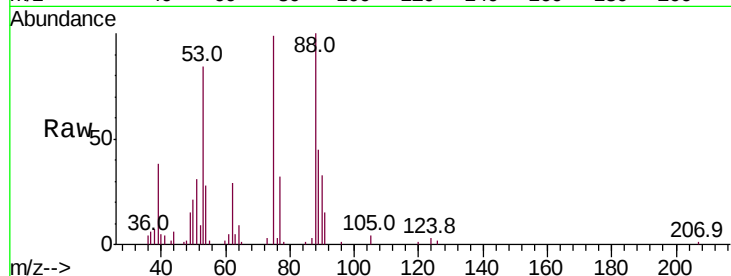
VSTDIC020

Tot Ion:	75	Resp:	28341
Ion	Ratio	Lower	Upper
75	100		
53	85.3	68.1	102.1
89	45.5	36.9	55.3

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#82

4-Chlorotoluene

Concen: 19.757 ug/l

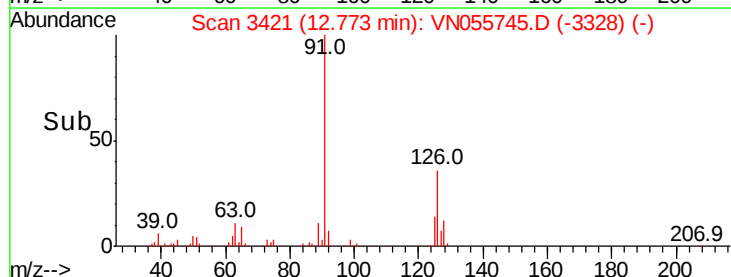
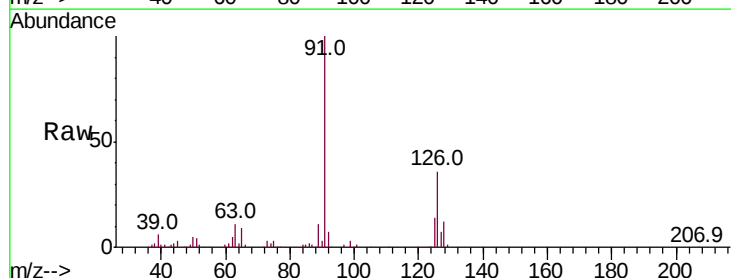
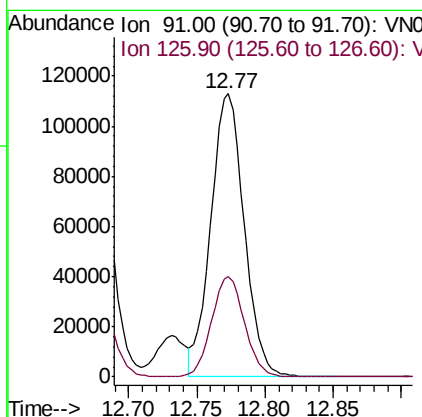
RT: 12.77 min Scan# 3421

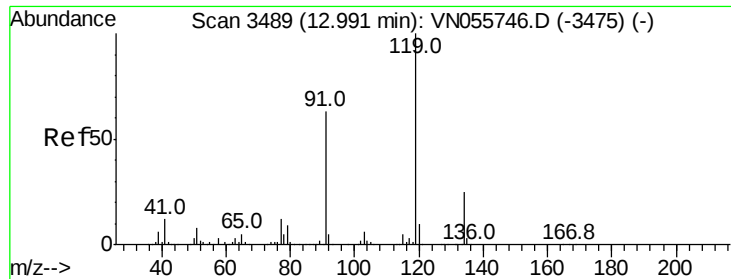
Delta R.T. 0.00 min

Lab File: VN055745.D

Acq: 23 May 2019 10:10

Tgt Ion:	91	Resp:	191255
Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.8	53.3





#83
tert-Butylbenzene
Concen: 20.393 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

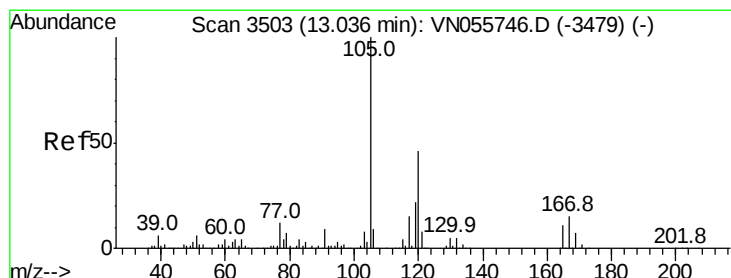
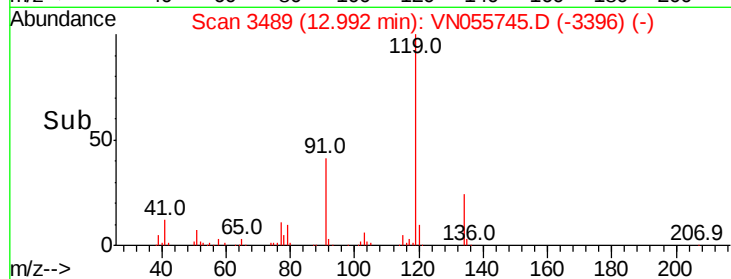
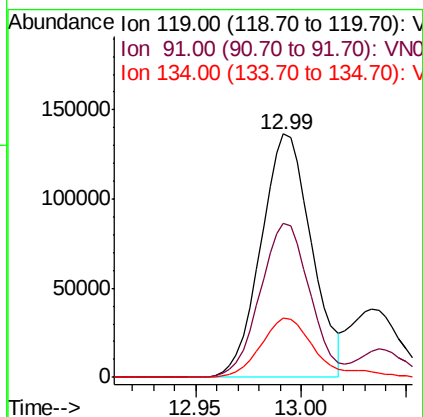
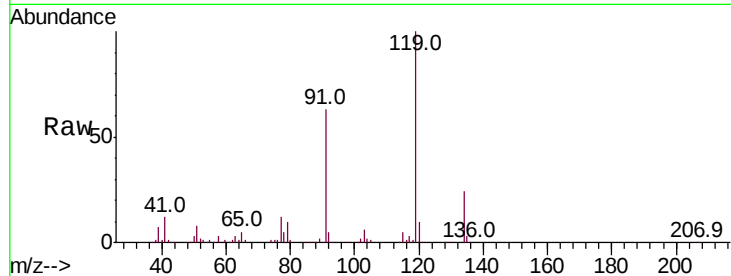
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	227671		
91	62.5	30.9	92.8	
134	26.4	13.3	39.8	

Manual Integrations
APPROVED

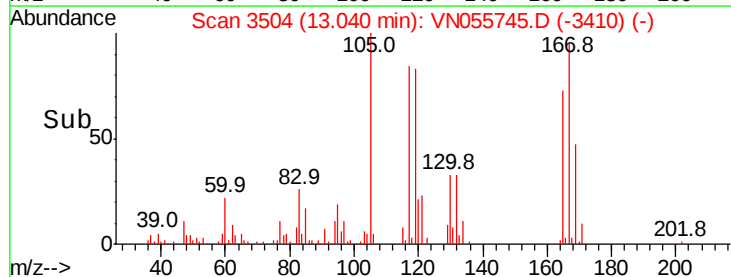
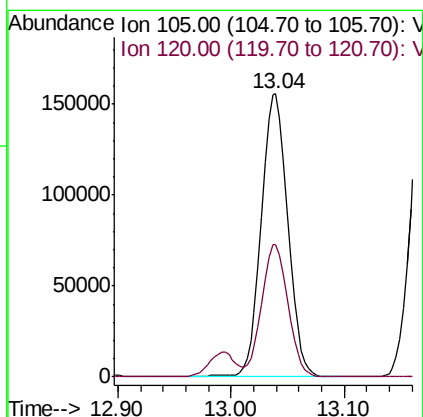
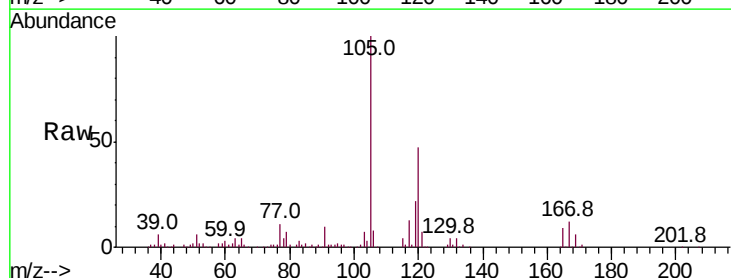
MMDadoda

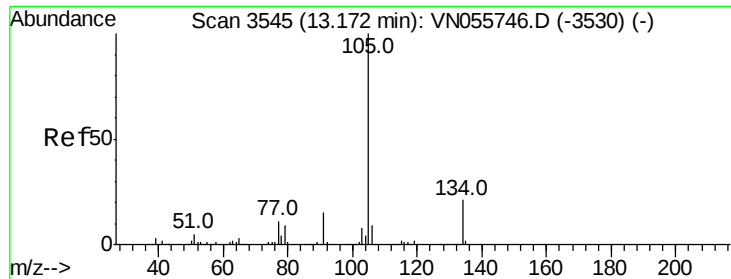
5/24/2019 9:20:57 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.293 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	254289		
120	46.3	23.0	69.0	





#85
 sec-Butylbenzene
 Concen: 20.241 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

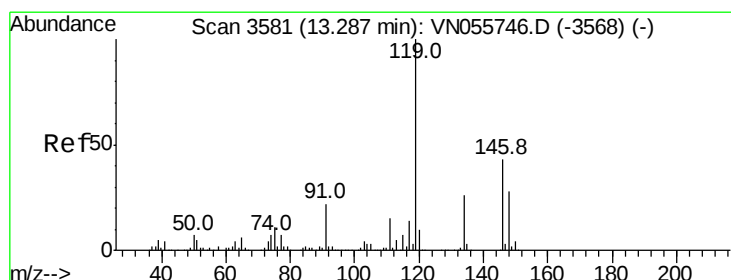
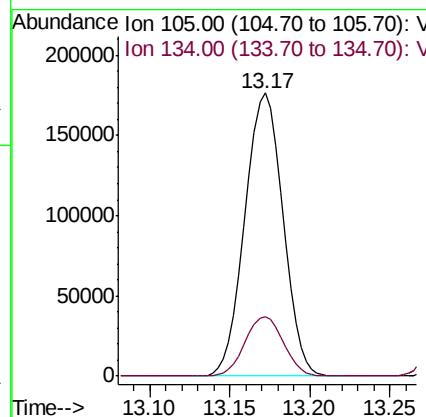
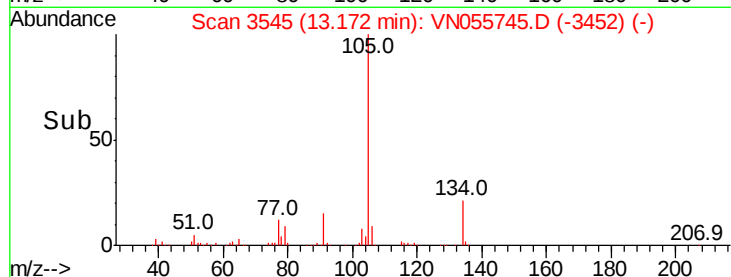
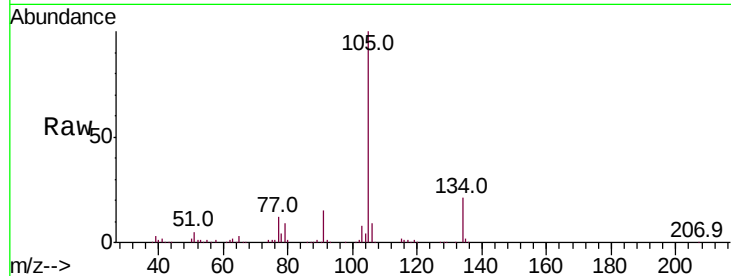
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.1	10.4	31.2

Manual Integrations
 APPROVED

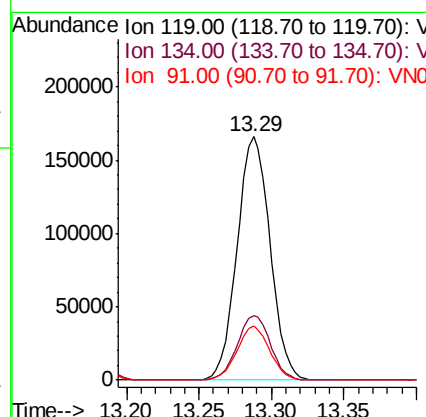
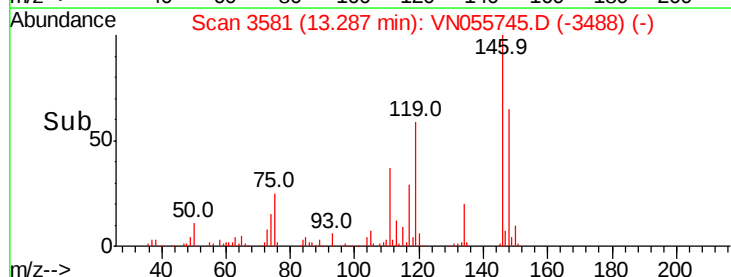
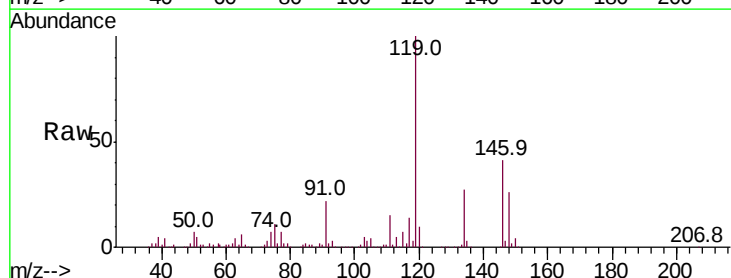
MMDadoda

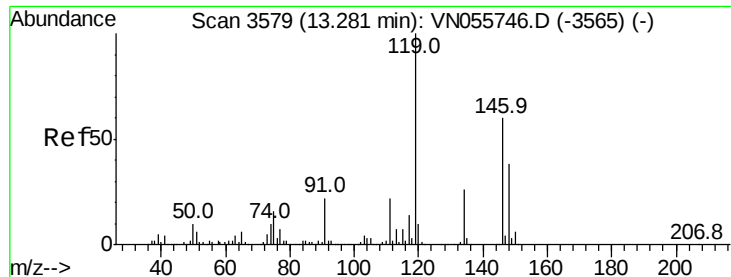
5/24/2019 9:20:57 AM



#86
 p-Isopropyltoluene
 Concen: 20.074 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.4	40.1
91	22.0	10.9	32.9





#87
 1,3-Dichlorobenzene
 Concen: 20.157 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

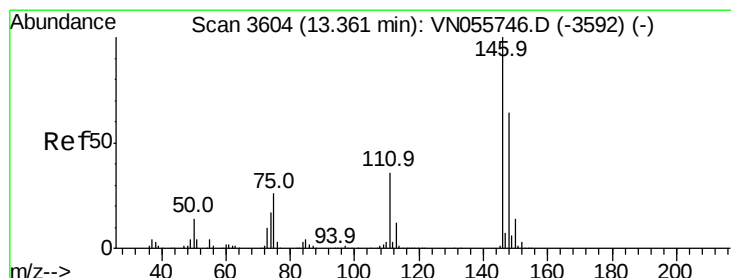
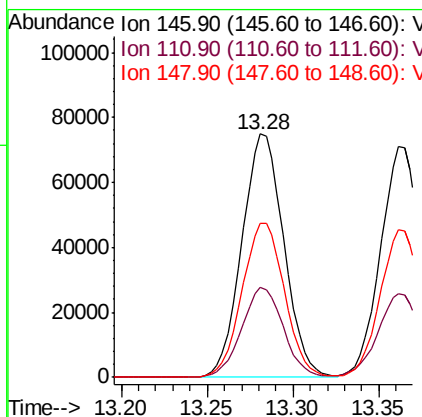
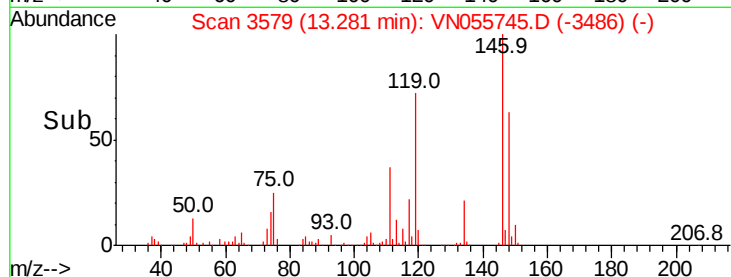
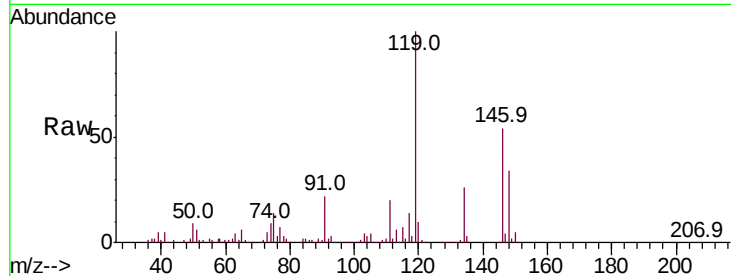
Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.5	55.5
148	64.0	32.0	96.2

Manual Integrations
 APPROVED

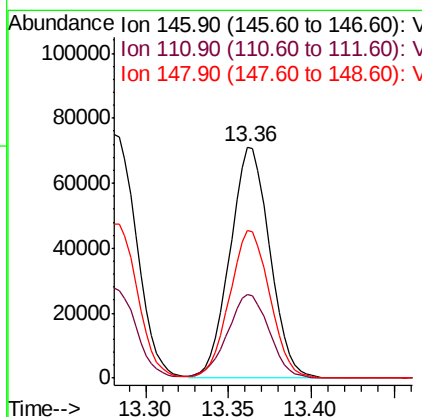
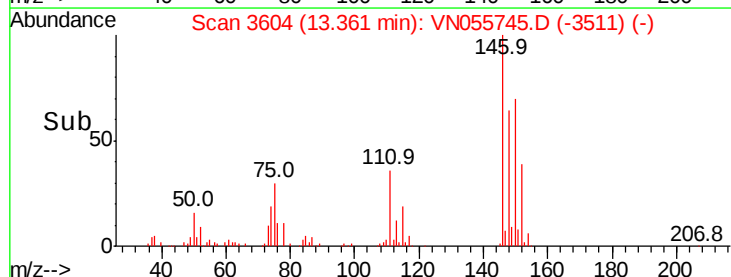
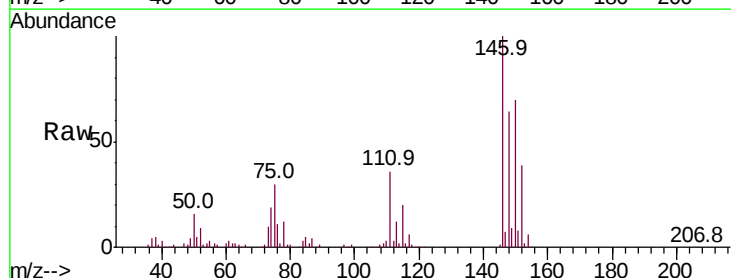
MMDadoda

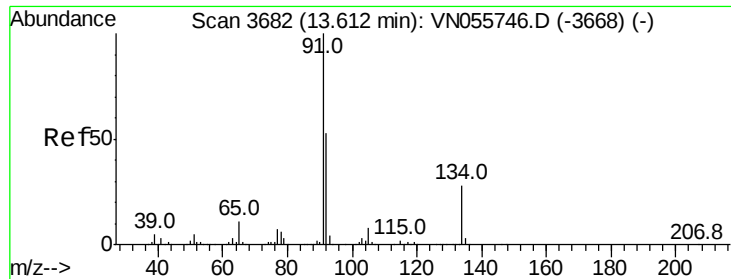
5/24/2019 9:20:57 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.892 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.1	54.4
148	64.6	32.1	96.5





#89
n-Butylbenzene
Concen: 19.356 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

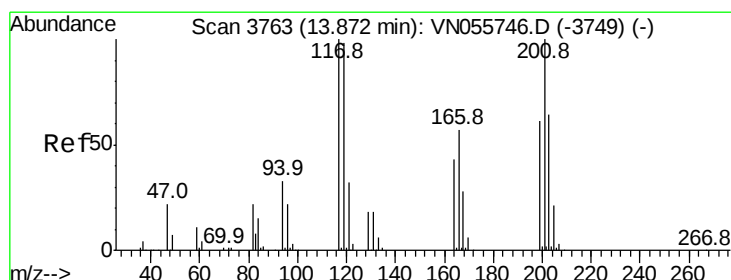
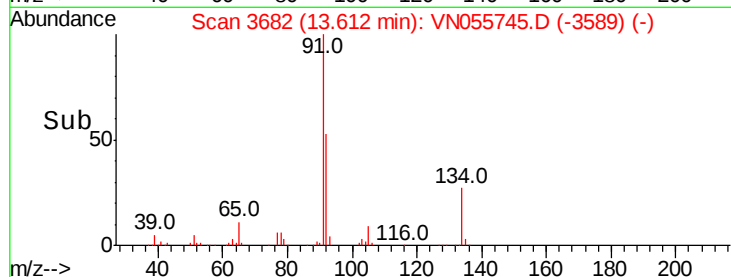
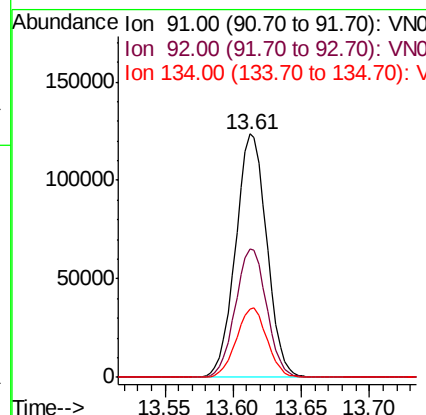
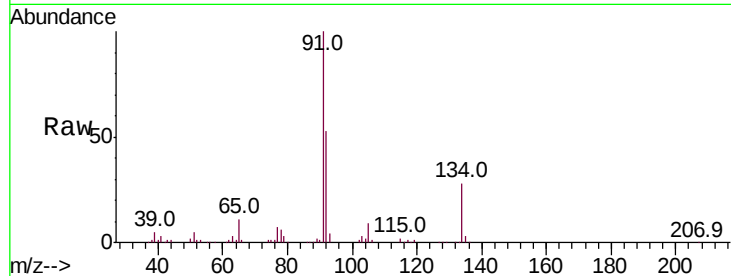
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.4	79.0
134	28.1	13.9	41.7

Manual Integrations
APPROVED

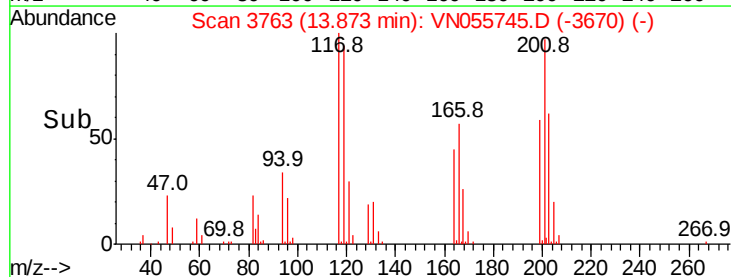
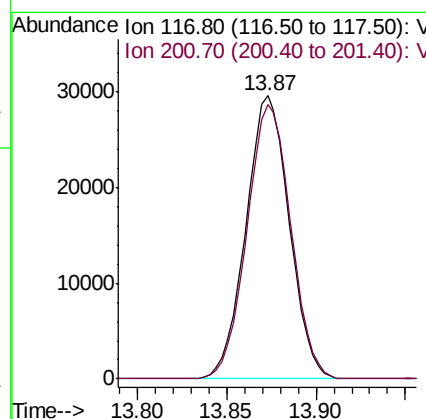
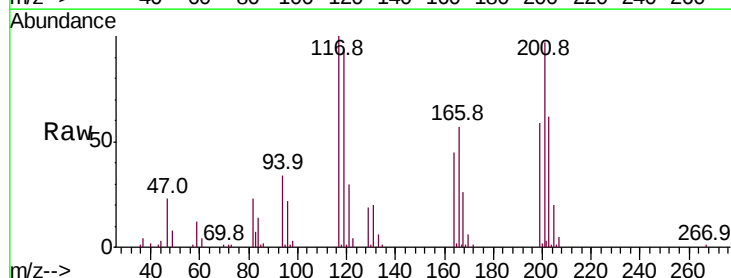
MMDadoda

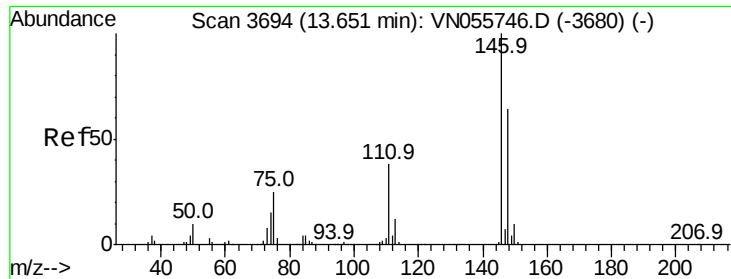
5/24/2019 9:20:57 AM



#90
Hexachloroethane
Concen: 20.179 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.7	50.0	150.0





#91
 1,2-Dichlorobenzene
 Concen: 20.680 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

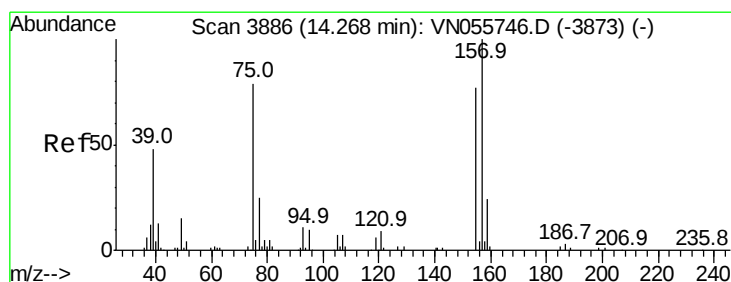
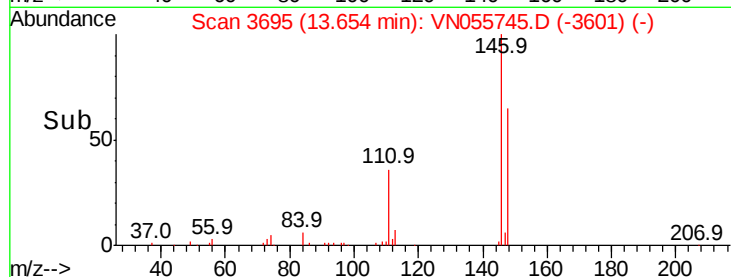
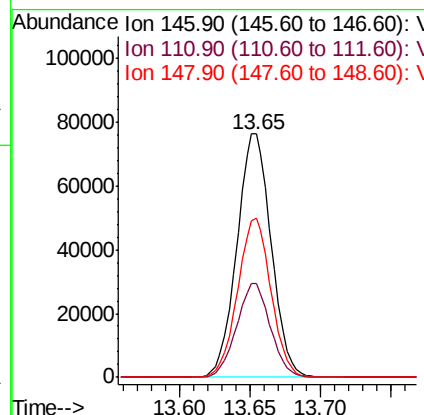
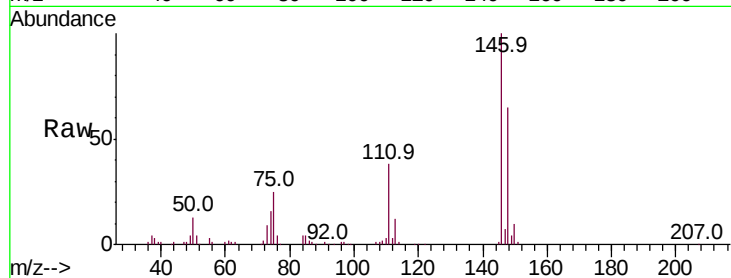
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.5
148	63.6	31.9	95.9

Manual Integrations
 APPROVED

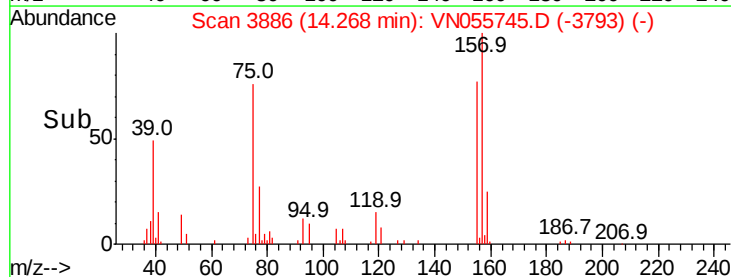
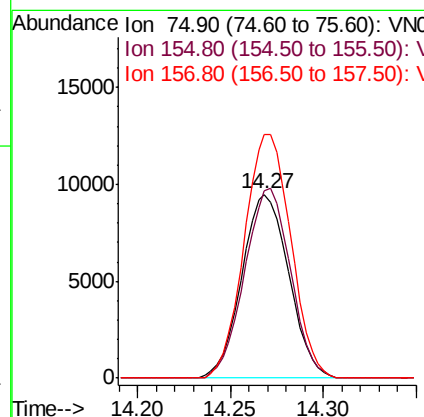
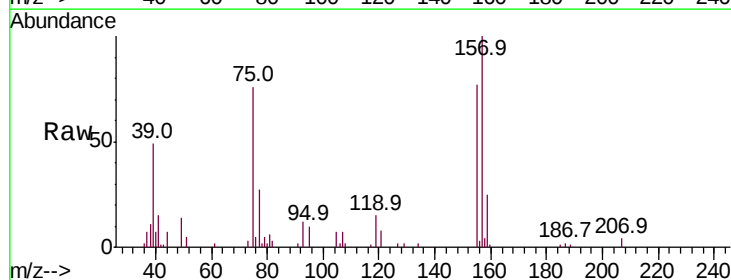
MMDadoda

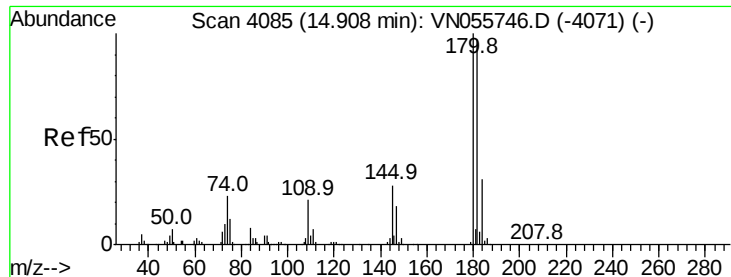
5/24/2019 9:20:57 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.124 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.7	50.0	150.1
157	131.0	64.8	194.3





#93
 1,2,4-Trichlorobenzene
 Concen: 18.892 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

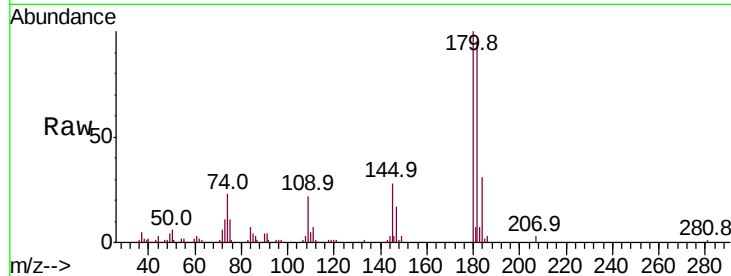
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:180	Resp:	59484
Ion Ratio	Lower	Upper
180	100	
182	95.9	48.3 144.9
145	28.3	14.0 41.9

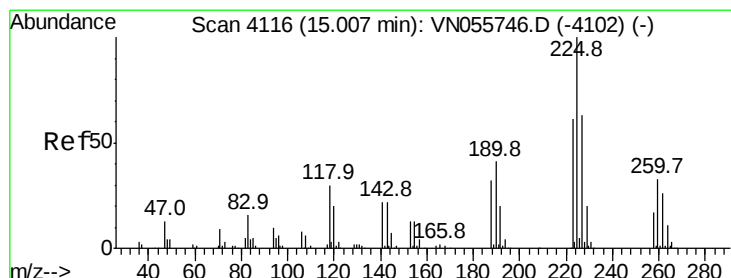
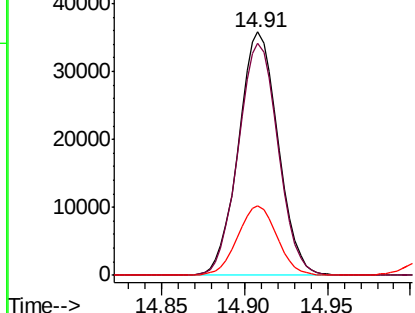
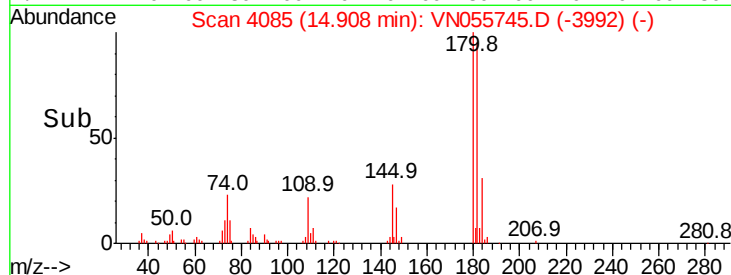
Manual Integrations
 APPROVED

MMDadoda

5/24/2019 9:20:57 AM

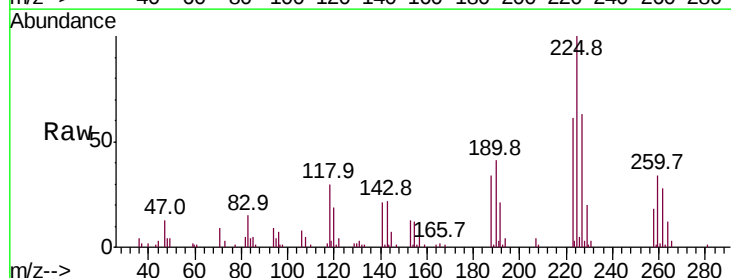


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

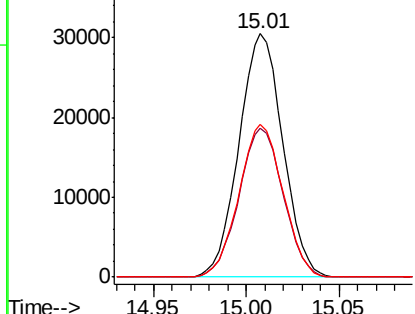
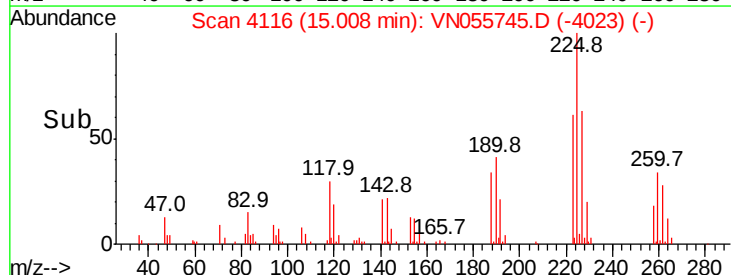


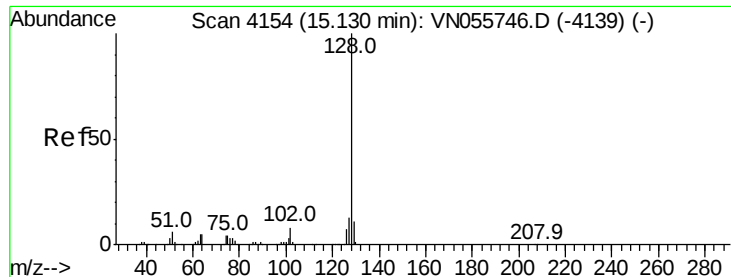
#94
 Hexachlorobutadiene
 Concen: 22.365 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055745.D
 Acq: 23 May 2019 10:10

Tgt Ion:225	Resp:	49949
Ion Ratio	Lower	Upper
225	100	
223	61.6	30.9 92.7
227	63.0	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: 19.335 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

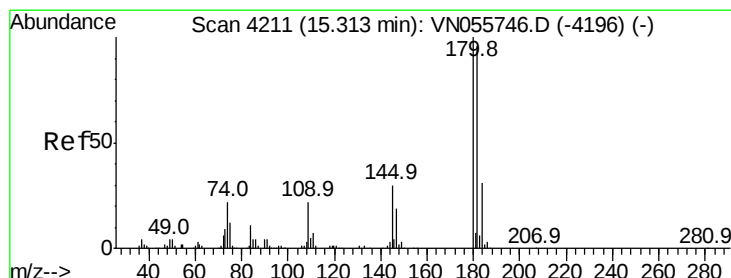
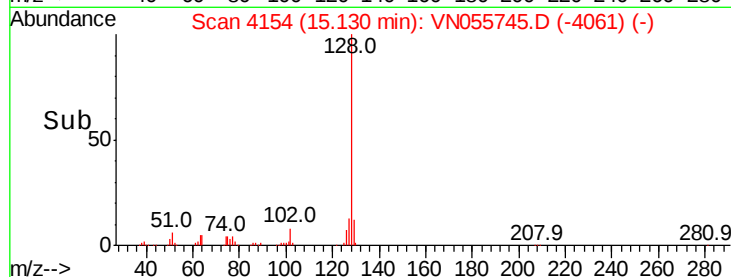
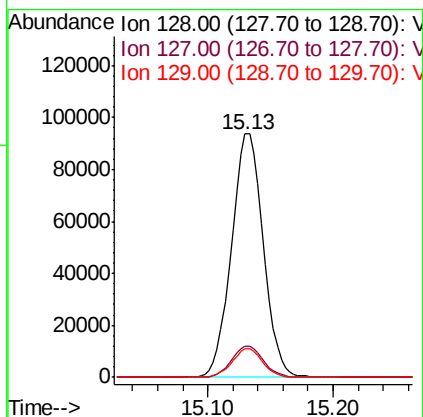
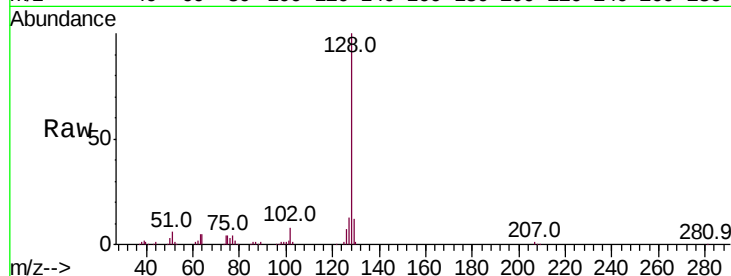
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	11.3	8.7	13.1

Manual Integrations
APPROVED

MMDadoda

5/24/2019 9:20:57 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.434 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055745.D
Acq: 23 May 2019 10:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.9	143.7
145	29.5	14.9	44.7

