

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055485.D
 Acq On : 9 May 2019 10:03
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/10/2019 12:39:24 PM

Quant Time: May 10 04:24:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 04:17:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	742063	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1260772	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1101192	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	467367	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	533950	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	
35) Dibromofluoromethane	7.59	113	407200	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
50) Toluene-d8	10.09	98	1620398	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	
62) 4-Bromofluorobenzene	12.40	95	558765	52.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.58%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	351987	46.590	ug/l	100
3) Chloromethane	2.06	50	549705	44.786	ug/l	99
4) Vinyl Chloride	2.19	62	542102	46.788	ug/l	99
5) Bromomethane	2.54	94	306208	48.236	ug/l	97
6) Chloroethane	2.69	64	328553	48.684	ug/l	99
7) Trichlorofluoromethane	3.01	101	619314	48.724	ug/l	100
8) Diethyl Ether	3.41	74	265569	46.522	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	391689	48.435	ug/l	99
10) Methyl Iodide	3.95	142	546611	50.010	ug/l	100
11) Tert butyl alcohol	4.81	59	327541	198.545	ug/l	99
12) 1,1-Dichloroethene	3.73	96	391458	48.267	ug/l	98
13) Acrolein	3.61	56	268029	243.780	ug/l	99
14) Allyl chloride	4.32	41	774381	46.611	ug/l	100
15) Acrylonitrile	4.99	53	1137299	222.639	ug/l	99
16) Acetone	3.82	43	1232698	238.275	ug/l	98
17) Carbon Disulfide	4.05	76	1098092	49.608	ug/l	99
18) Methyl Acetate	4.33	43	466171	42.780	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	1243683	46.149	ug/l	99
20) Methylene Chloride	4.55	84	474949	44.896	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	424717	48.300	ug/l	98
22) Diisopropyl ether	5.96	45	1640136	48.581	ug/l	99
23) Vinyl Acetate	5.90	43	6305057	241.488	ug/l	100
24) 1,1-Dichloroethane	5.85	63	852902	46.799	ug/l	99
25) 2-Butanone	6.84	43	1652801	231.275	ug/l	99
26) 2,2-Dichloropropane	6.82	77	559727	49.267	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	489323	48.150	ug/l	99
28) Bromochloromethane	7.19	49	458152	48.408	ug/l	99
29) Tetrahydrofuran	7.22	42	1028511	217.702	ug/l	100
30) Chloroform	7.37	83	803146	47.671	ug/l	98
31) Cyclohexane	7.65	56	838718	46.513	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	622731	48.537	ug/l	100
36) 1,1-Dichloropropene	7.79	75	638837	51.433	ug/l	99
37) Ethyl Acetate	6.93	43	626352	46.229	ug/l	99
38) Carbon Tetrachloride	7.77	117	515746	49.312	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055485.D
 Acq On : 9 May 2019 10:03
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/10/2019 12:39:24 PM

Quant Time: May 10 04:24:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 04:17:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	766676	50.625	ug/l	99
40) Benzene	8.04	78	1897529	49.224	ug/l	100
41) Methacrylonitrile	7.18	41	308944	49.128	ug/l	99
42) 1,2-Dichloroethane	8.12	62	640657	47.304	ug/l	99
43) Isopropyl Acetate	8.17	43	970070	47.127	ug/l	98
44) Trichloroethene	8.83	130	453207	49.410	ug/l	97
45) 1,2-Dichloropropane	9.12	63	531726	48.208	ug/l	98
46) Dibromomethane	9.21	93	308079	48.188	ug/l	99
47) Bromodichloromethane	9.40	83	611196	49.972	ug/l	99
48) Methyl methacrylate	9.20	41	471425	47.534	ug/l	100
49) 1,4-Dioxane	9.20	88	172783	893.869	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	3077345	227.313	ug/l	100
52) Toluene	10.16	92	1125568	51.073	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	615571	52.403	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	733831	52.279	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	436379	48.871	ug/l	99
56) Ethyl methacrylate	10.43	69	635364	47.838	ug/l	99
57) 1,3-Dichloropropane	10.71	76	771677	48.679	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	911786	206.238	ug/l	100
59) 2-Hexanone	10.75	43	2163138	227.839	ug/l	100
60) Dibromochloromethane	10.90	129	421628	51.935	ug/l	100
61) 1,2-Dibromoethane	11.00	107	424562	49.487	ug/l	99
64) Tetrachloroethene	10.63	164	447962	49.646	ug/l	99
65) Chlorobenzene	11.43	112	1129224	49.843	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	397013	50.902	ug/l	99
67) Ethyl Benzene	11.51	91	2138663	50.262	ug/l	100
68) m/p-Xylenes	11.62	106	1586871	103.920	ug/l	99
69) o-Xylene	11.95	106	764042	50.907	ug/l	99
70) Styrene	11.96	104	1287873	53.560	ug/l	99
71) Bromoform	12.13	173	277224	52.673	ug/l #	99
73) Isopropylbenzene	12.25	105	2038080	53.038	ug/l	99
74) N-amyl acetate	12.07	43	792499	44.663	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	601778	47.925	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	548452m	43.106	ug/l	
77) Bromobenzene	12.53	156	463435	44.994	ug/l	98
78) n-propylbenzene	12.59	91	2388737	47.653	ug/l	100
79) 2-Chlorotoluene	12.67	91	1425097	45.617	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1760335	47.096	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	159658	46.302	ug/l	98
82) 4-Chlorotoluene	12.77	91	1406757	47.656	ug/l	100
83) tert-Butylbenzene	12.99	119	1446536	45.150	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1696758	49.497	ug/l	100
85) sec-Butylbenzene	13.17	105	2004706	47.082	ug/l	99
86) p-Isopropyltoluene	13.29	119	1722141	49.697	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	804558	50.552	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	780089	49.665	ug/l	99
89) n-Butylbenzene	13.61	91	1423660	53.002	ug/l	100
90) Hexachloroethane	13.87	117	269078	47.601	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	780933	49.095	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	97449	45.343	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
Data File : VN055485.D
Acq On : 9 May 2019 10:03
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM

Quant Time: May 10 04:24:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 04:17:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	318736	46.276	ug/l	97
94) Hexachlorobutadiene	15.01	225	263427	56.254	ug/l	99
95) Naphthalene	15.13	128	783494	40.782	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	339101	45.446	ug/l	99

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

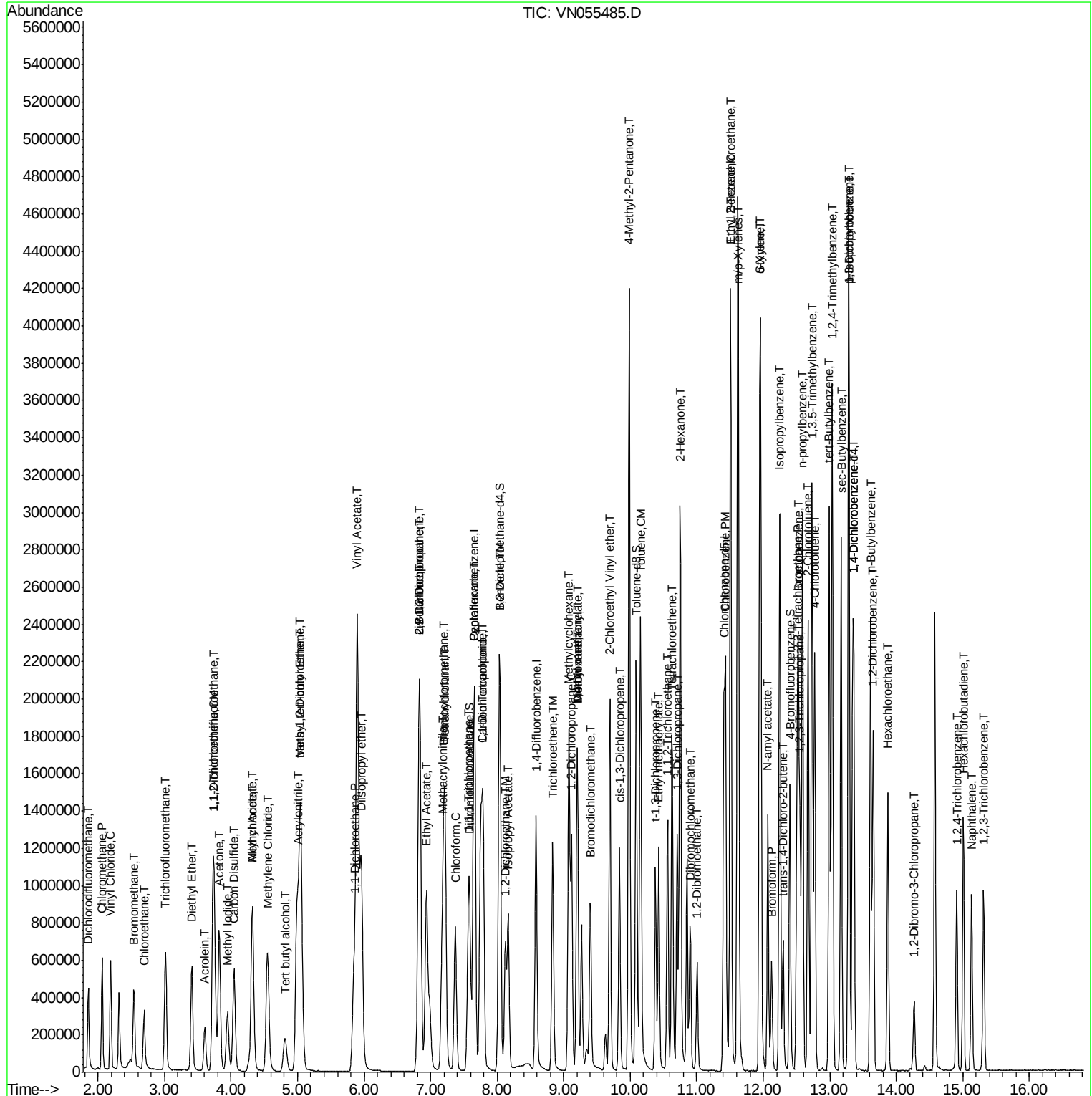
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN050919\
Data File : VN055485.D
Acq On : 9 May 2019 10:03
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

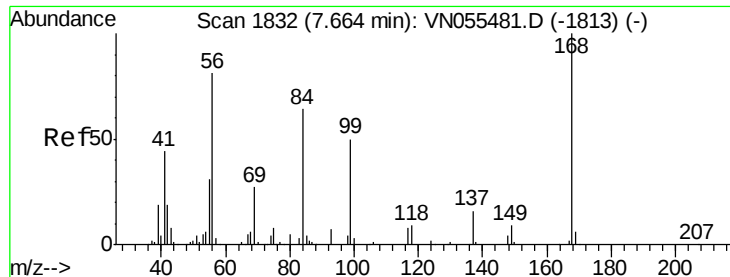
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM

Quant Time: May 10 04:24:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 04:17:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 742063

Ion Ratio Lower Upper

168 100

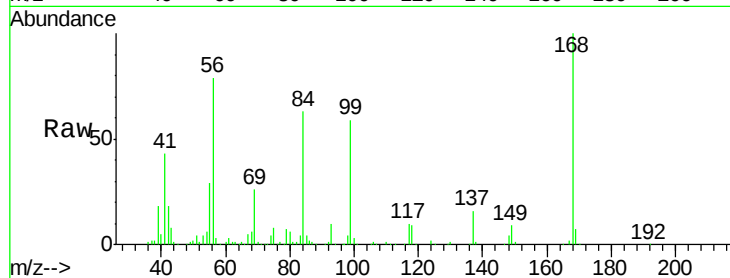
99 58.0 47.0 70.4

Manual Integrations

APPROVED

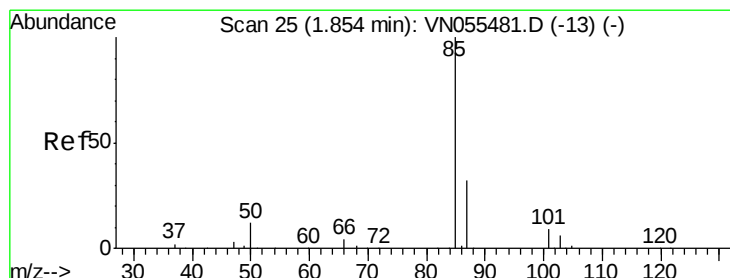
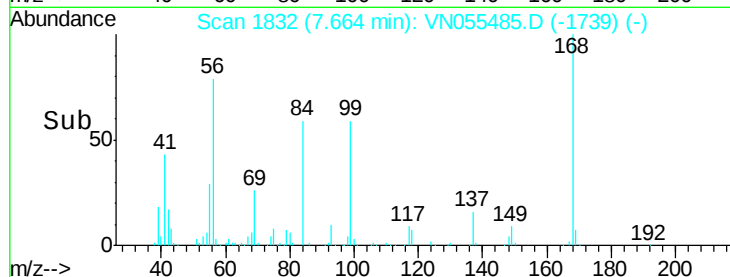
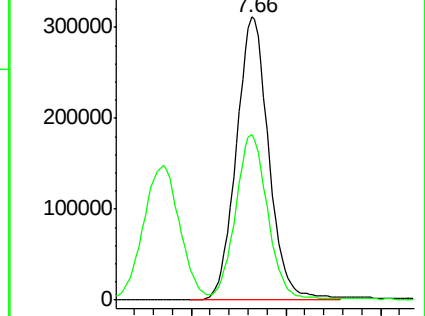
MMDadoda

5/10/2019 12:39:24 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 46.590 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN055485.D

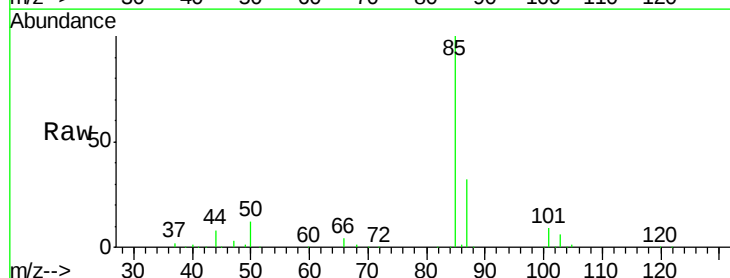
Acq: 9 May 2019 10:03

Tgt Ion: 85 Resp: 351987

Ion Ratio Lower Upper

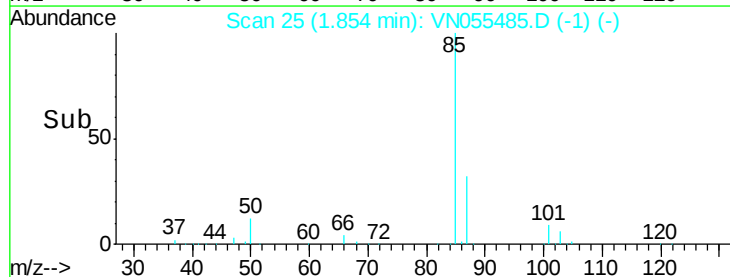
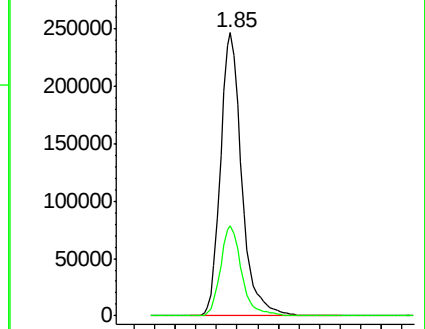
85 100

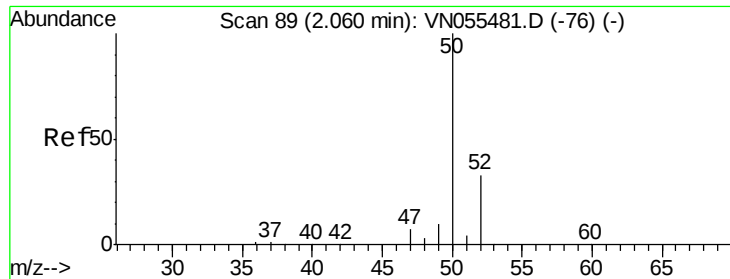
87 31.8 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 44.786 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 549705

Ion Ratio Lower Upper

50 100

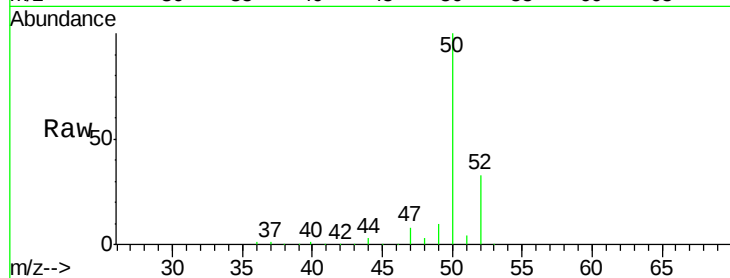
52 32.8 26.6 39.8

Manual Integrations

APPROVED

MMDadoda

5/10/2019 12:39:24 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

400000

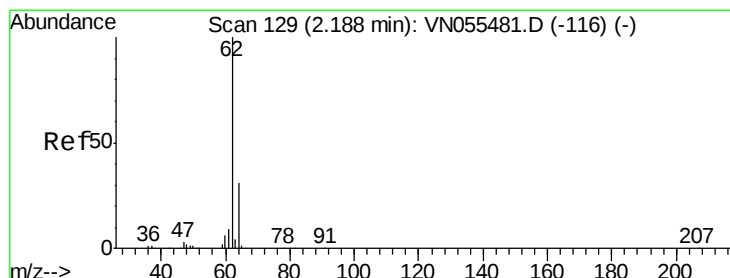
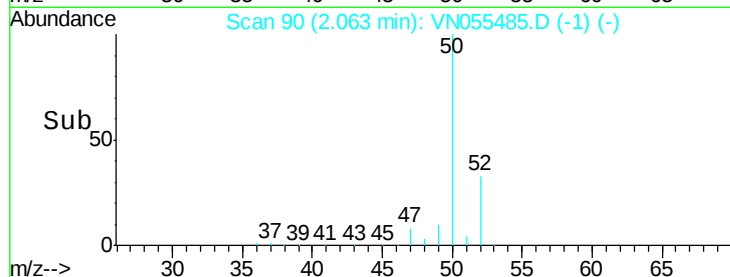
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 46.788 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN055485.D

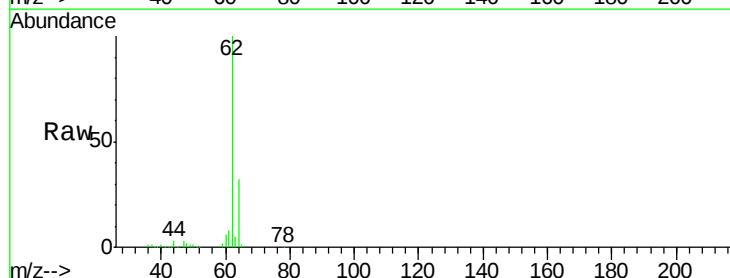
Acq: 9 May 2019 10:03

Tgt Ion: 62 Resp: 542102

Ion Ratio Lower Upper

62 100

64 31.9 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

400000

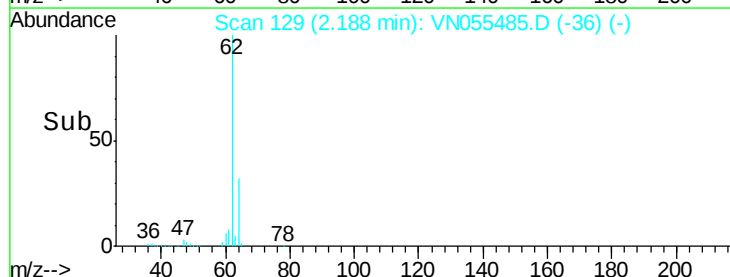
300000

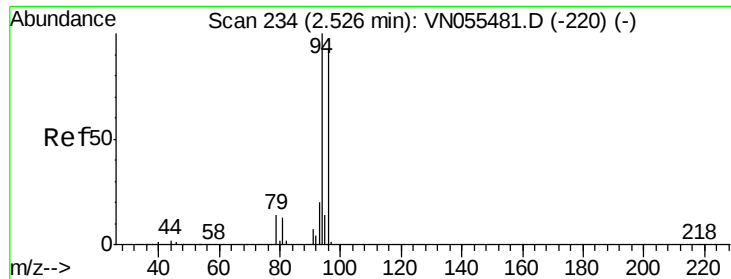
200000

100000

0

Time-->





#5

Bromomethane

Concen: 48.236 ug/l

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 306208

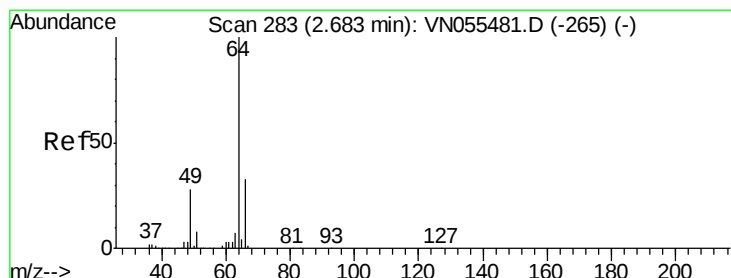
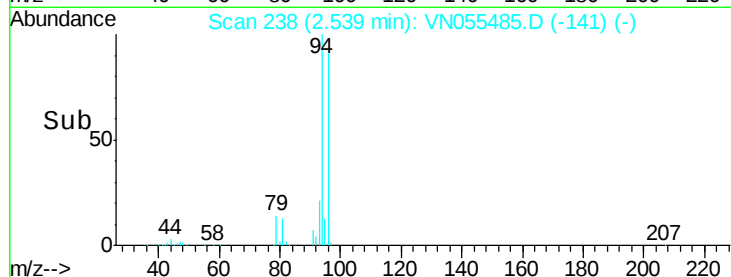
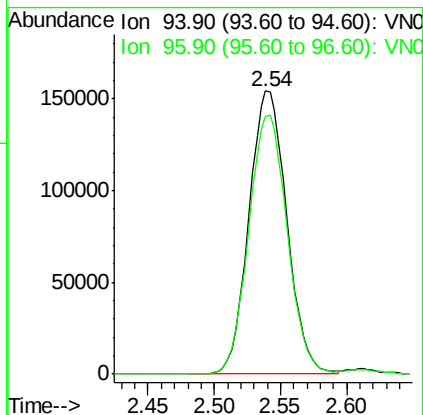
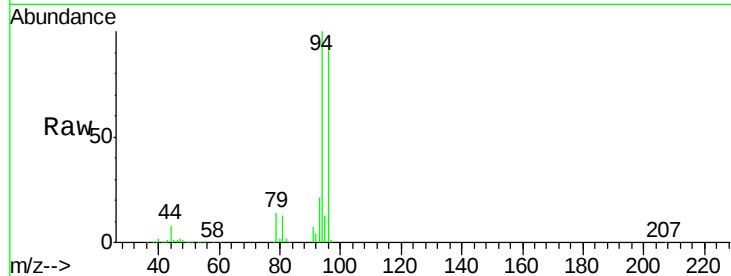
Ion Ratio Lower Upper

94 100

96 91.1 74.8 112.2

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#6

Chloroethane

Concen: 48.684 ug/l

RT: 2.69 min Scan# 286

Delta R.T. 0.01 min

Lab File: VN055485.D

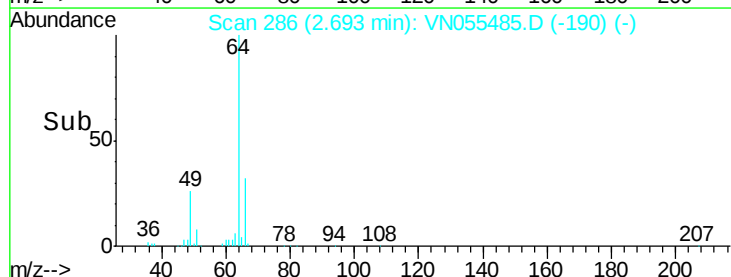
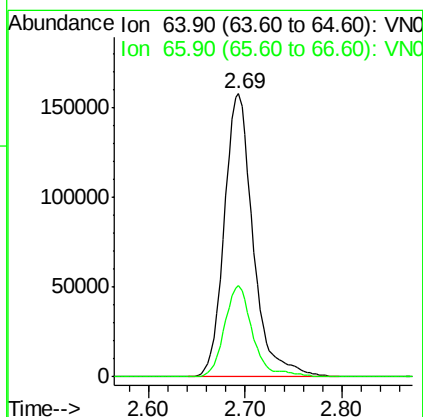
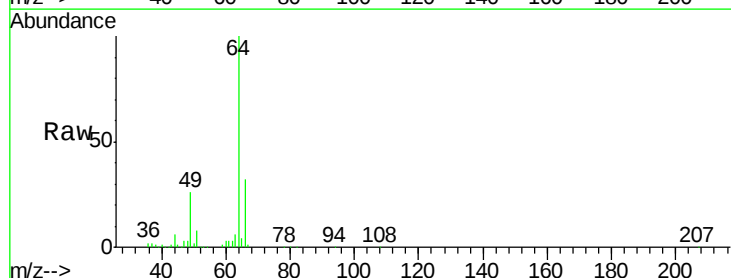
Acq: 9 May 2019 10:03

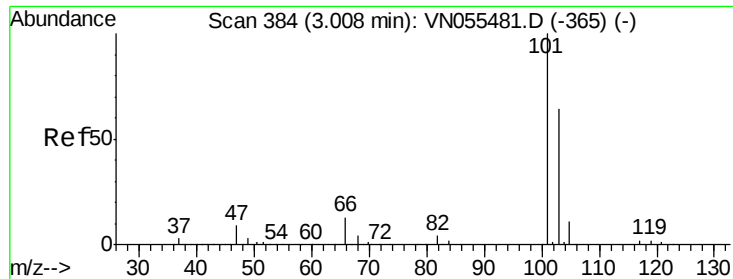
Tgt Ion: 64 Resp: 328553

Ion Ratio Lower Upper

64 100

66 32.1 26.2 39.2





#7

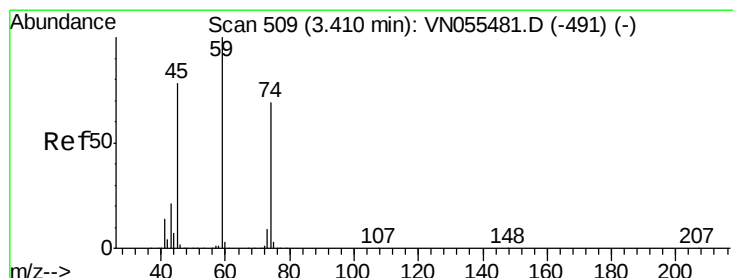
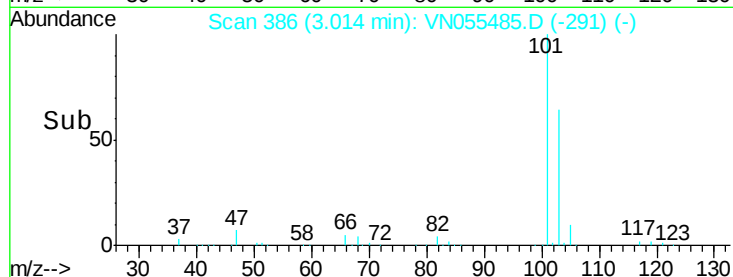
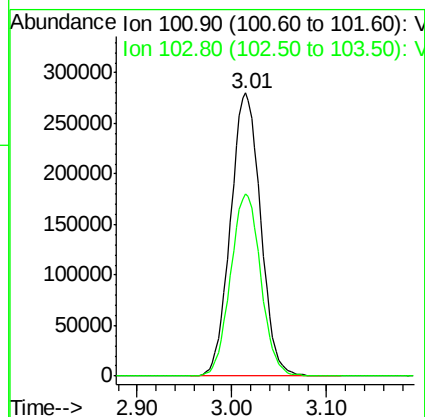
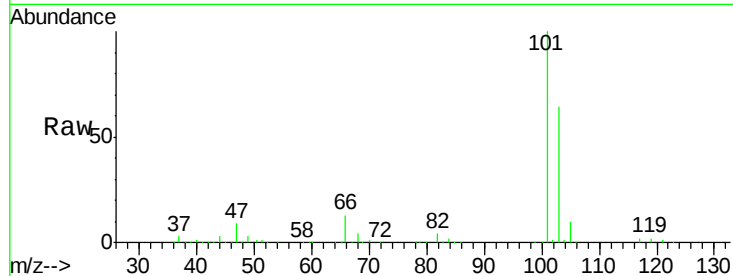
Trichlorofluoromethane
Concen: 48.724 ug/l
RT: 3.01 min Scan# 386
Delta R.T. 0.01 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 619314
Ion Ratio Lower Upper
101 100
103 64.3 51.2 76.8

Manual Integrations
APPROVED

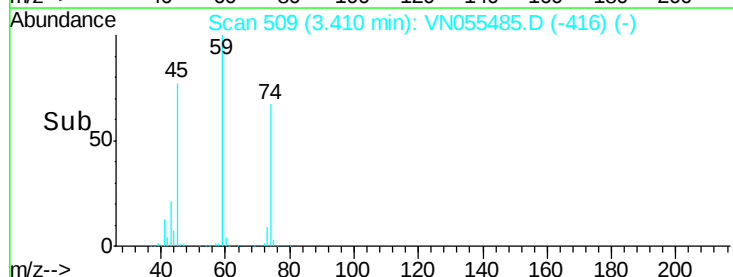
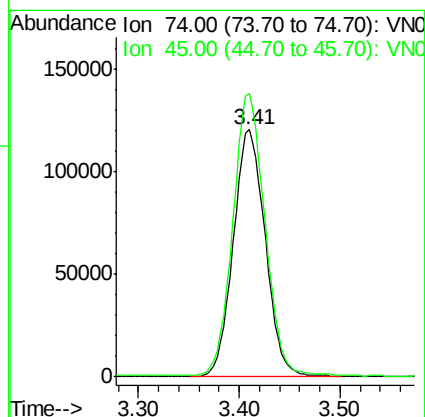
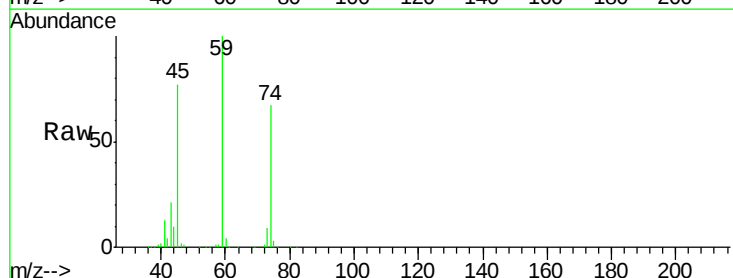
MMDadoda
5/10/2019 12:39:24 PM

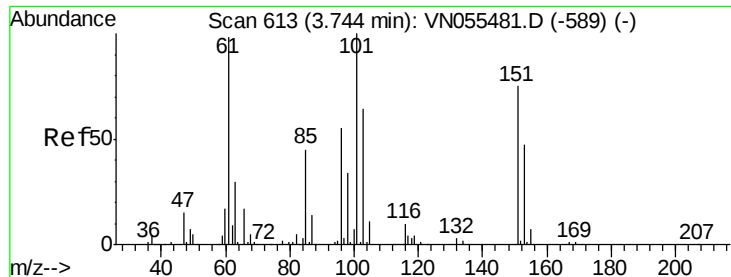


#8

Diethyl Ether
Concen: 46.522 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion: 74 Resp: 265569
Ion Ratio Lower Upper
74 100
45 114.3 58.1 174.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.435 ug/l

RT: 3.75 min Scan# 614

Delta R.T. 0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

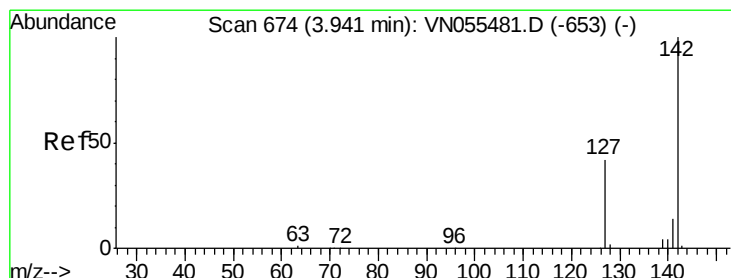
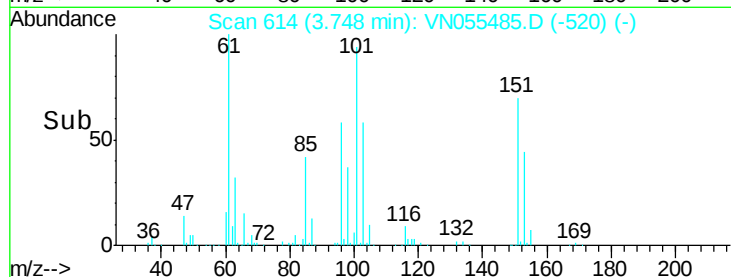
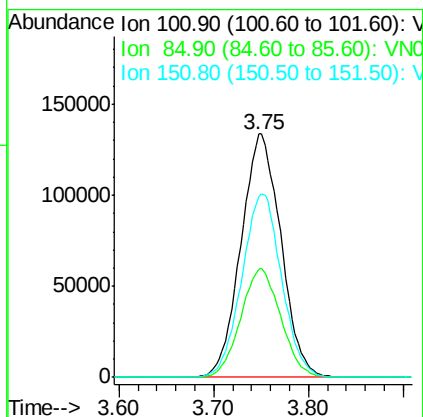
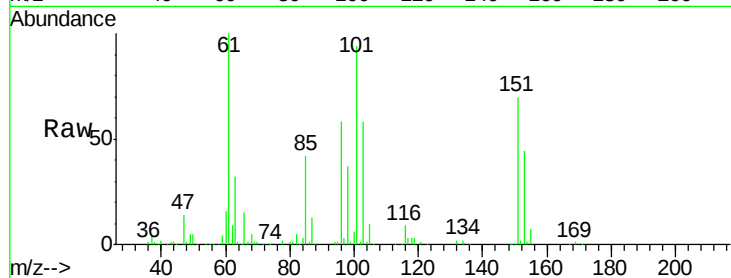
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	391689
Ion Ratio	Lower	Upper	
101	100		
85	44.7	35.5	53.3
151	75.0	59.2	88.8

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#10

Methyl Iodide

Concen: 50.010 ug/l

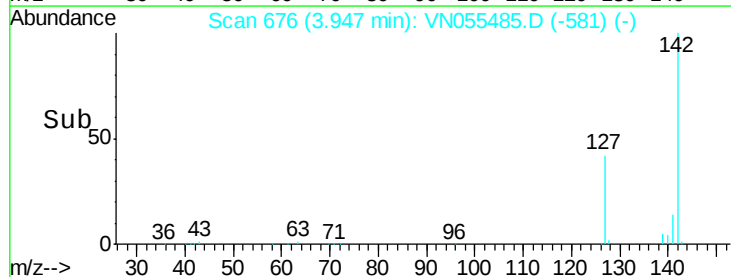
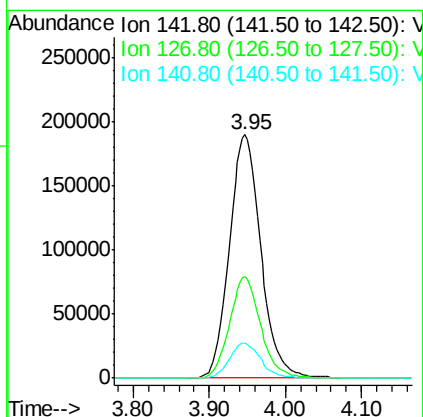
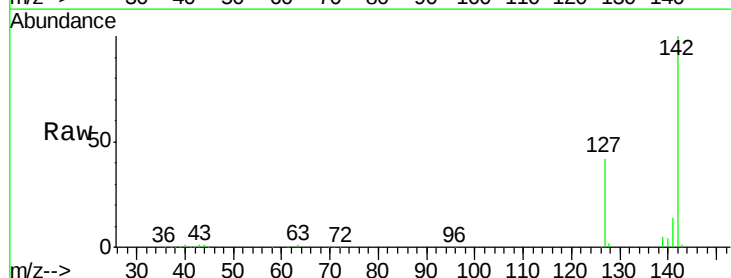
RT: 3.95 min Scan# 676

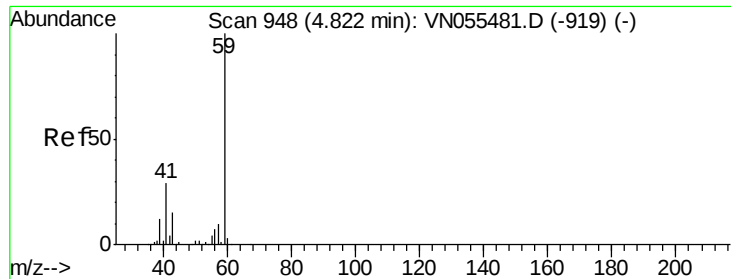
Delta R.T. 0.01 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion:	142	Resp:	546611
Ion Ratio	Lower	Upper	
142	100		
127	41.2	33.0	49.4
141	14.3	11.4	17.0





#11

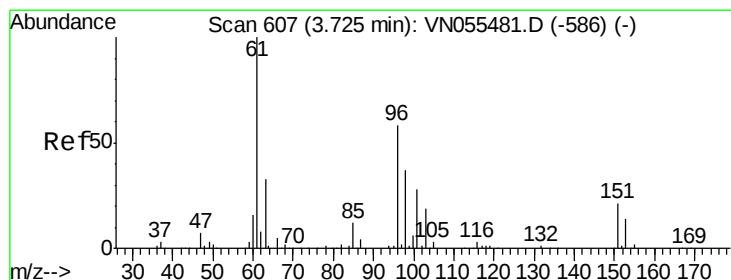
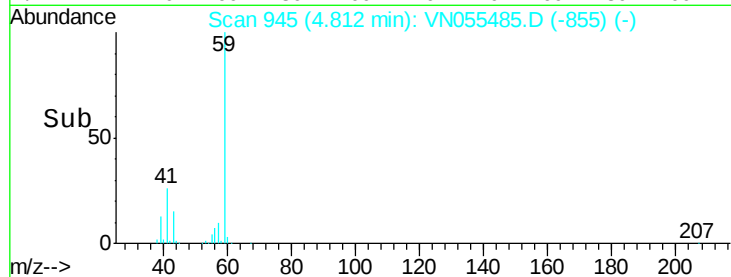
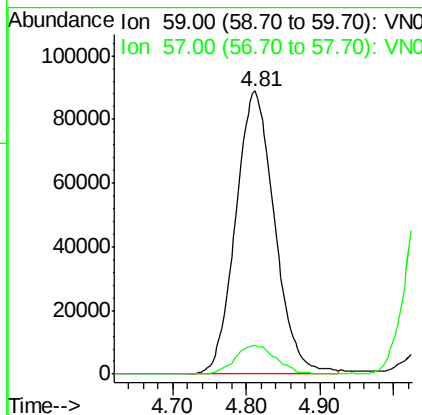
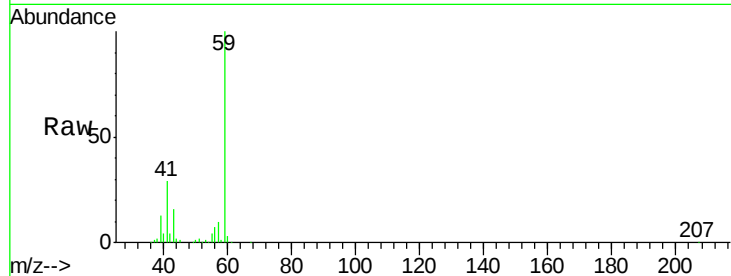
Tert butyl alcohol
 Concen: 198.545 ug/l
 RT: 4.81 min Scan# 945
 Delta R.T. -0.01 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.0	12.0

Manual Integrations
 APPROVED

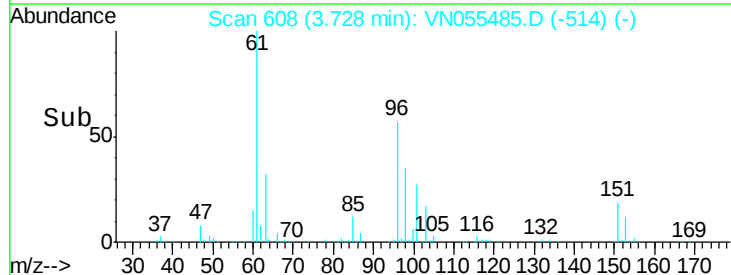
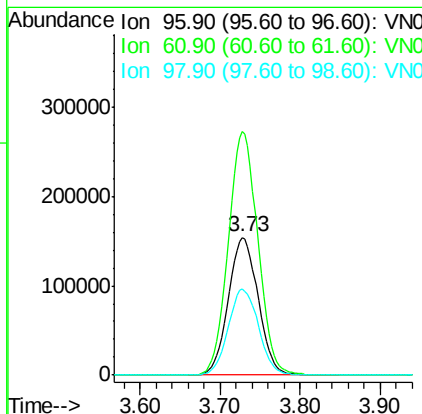
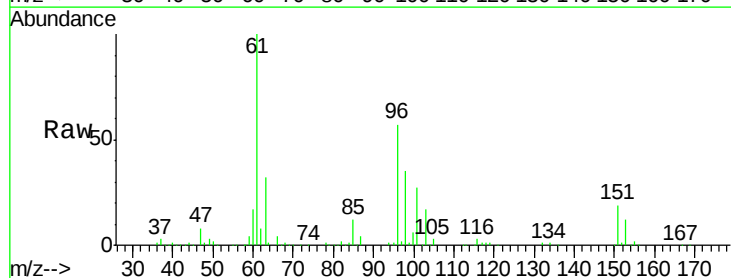
MMDadoda
 5/10/2019 12:39:24 PM

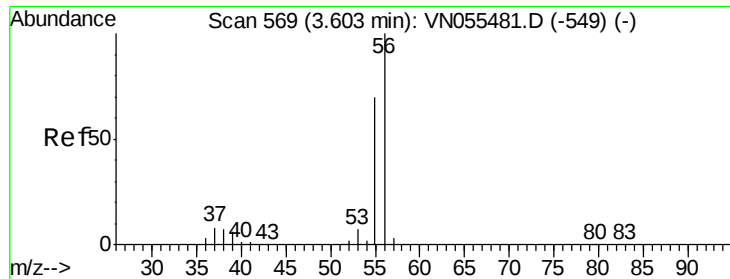


#12

1,1-Dichloroethene
 Concen: 48.267 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. 0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.0	138.7	208.1
98	62.3	50.6	76.0





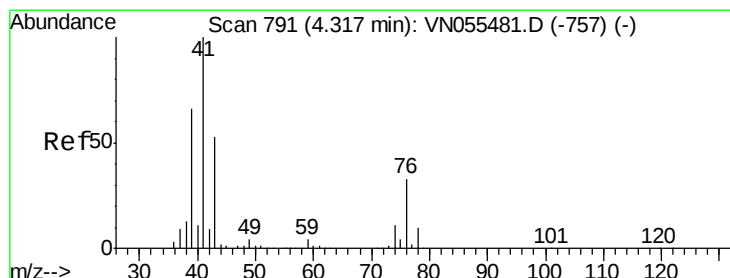
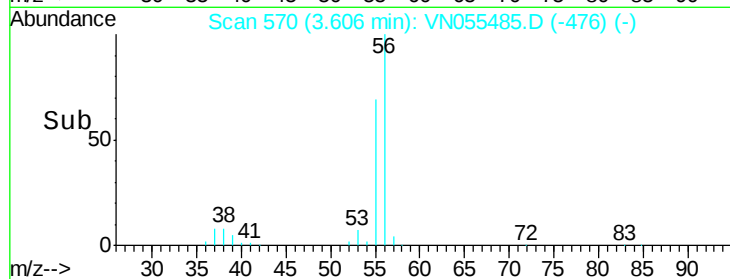
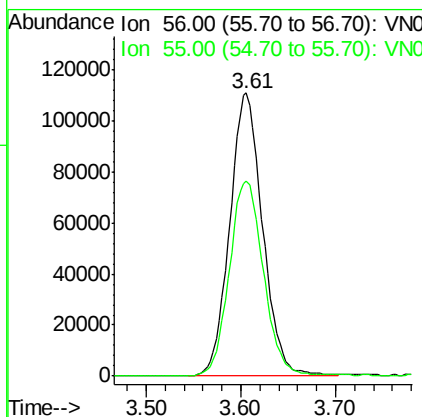
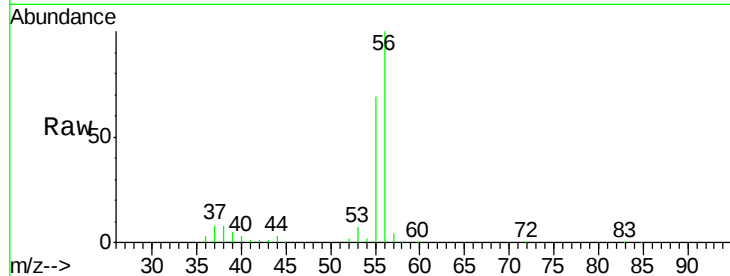
#13
Acrolein
Concen: 243.780 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	71.2	57.7	86.5	

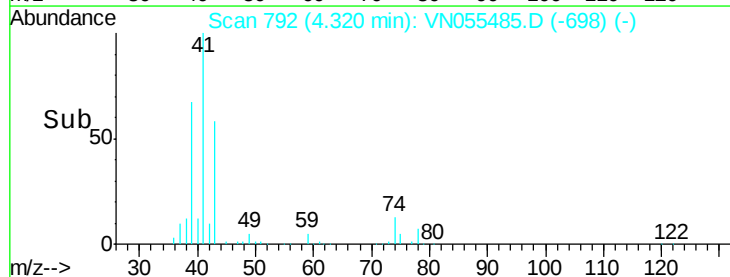
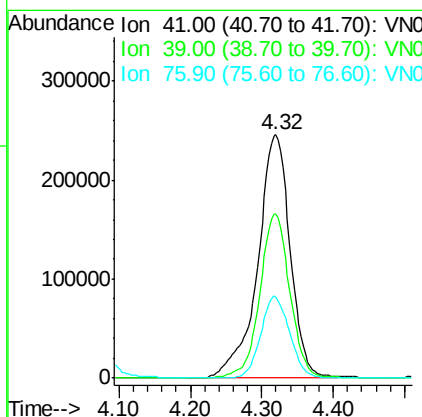
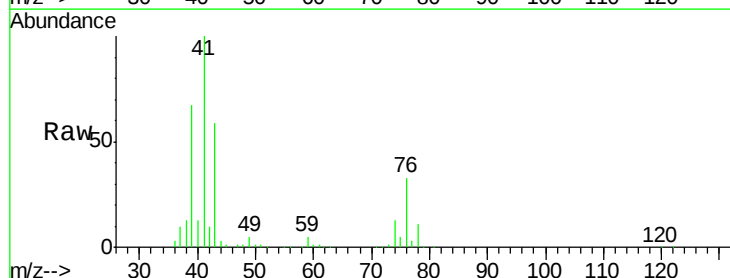
Manual Integrations
APPROVED

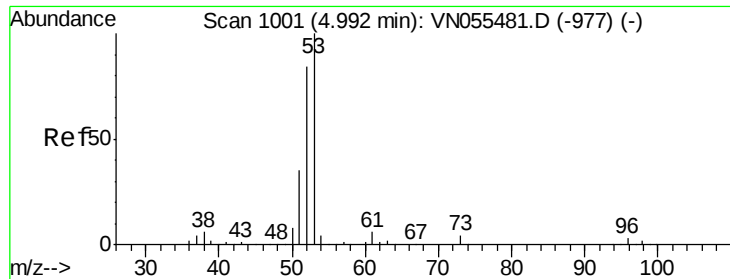
MMDadoda
5/10/2019 12:39:24 PM



#14
Allyl chloride
Concen: 46.611 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	62.6	49.8	74.8	
76	29.7	23.5	35.3	





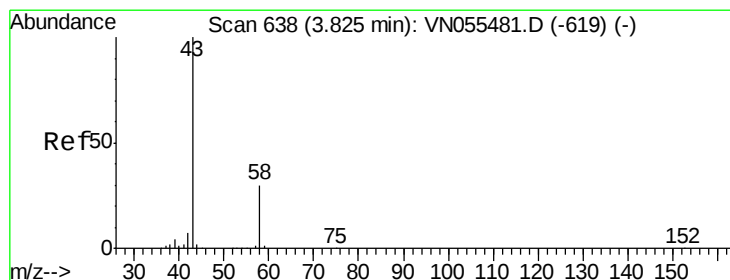
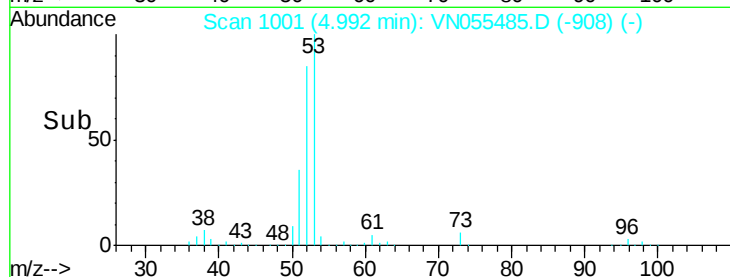
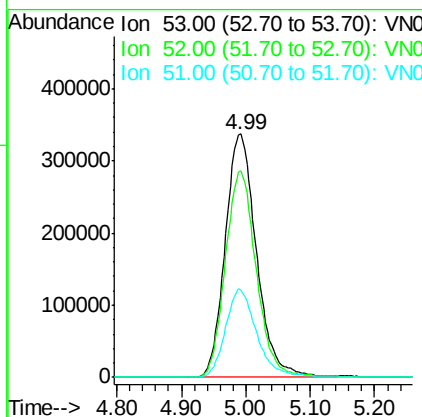
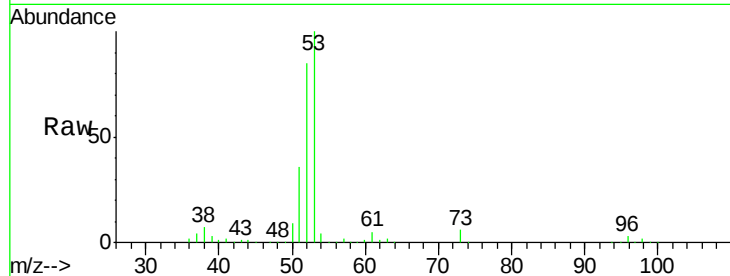
#15
 Acrylonitrile
 Concen: 222.639 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.7	66.1	99.1
51	36.3	28.3	42.5

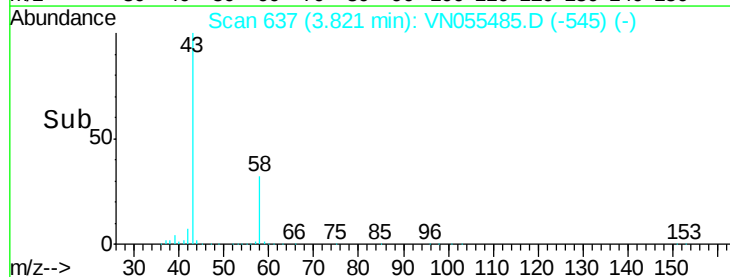
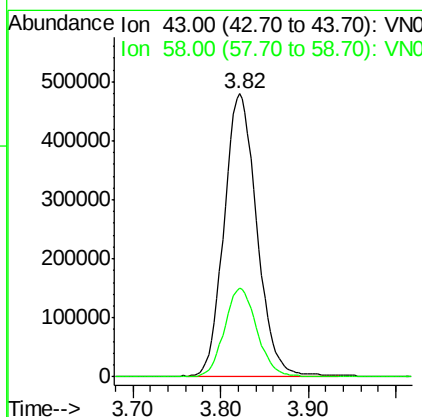
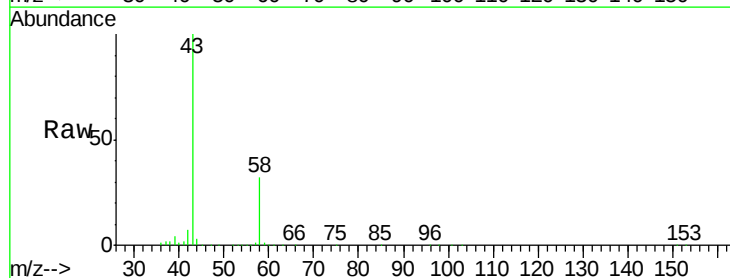
Manual Integrations
 APPROVED

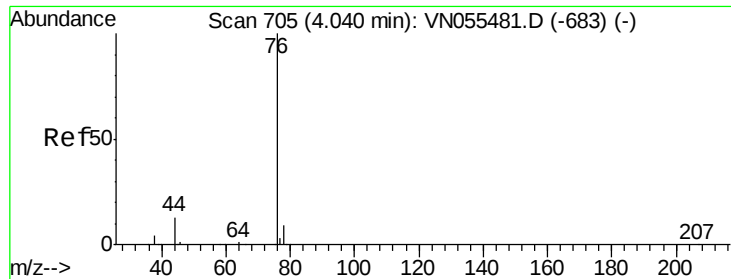
MMDadoda
 5/10/2019 12:39:24 PM



#16
 Acetone
 Concen: 238.275 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.2	36.2





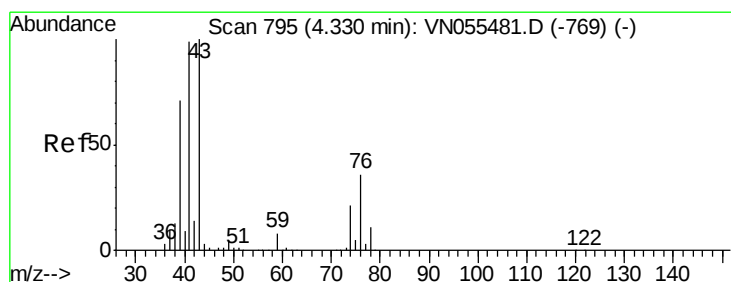
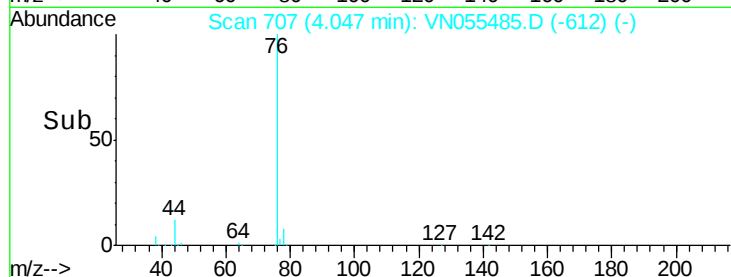
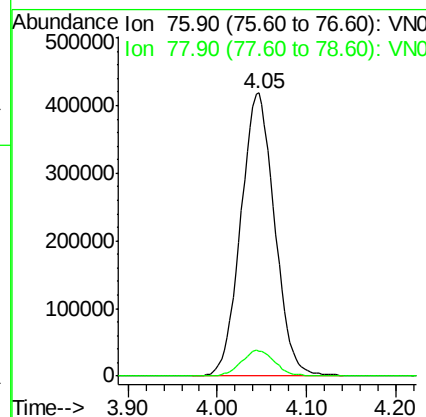
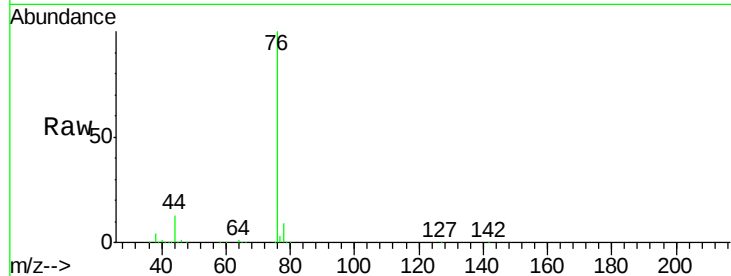
#17
Carbon Disulfide
Concen: 49.608 ug/l
RT: 4.05 min Scan# 707
Delta R.T. 0.01 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1098092
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.0

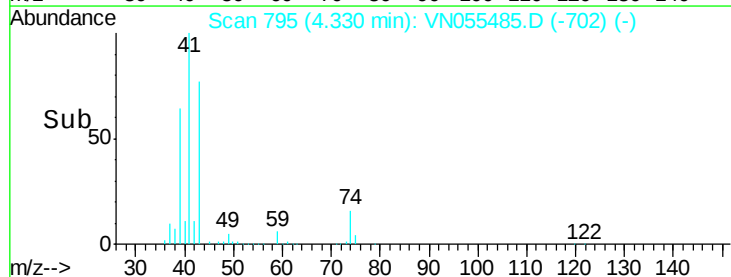
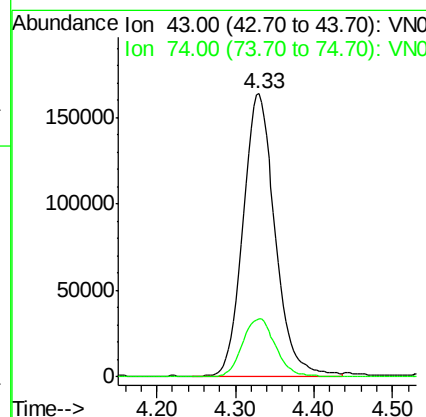
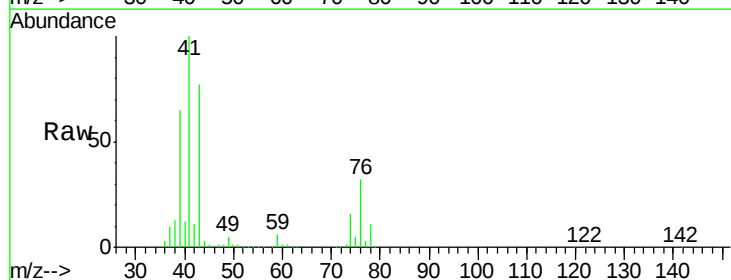
Manual Integrations
APPROVED

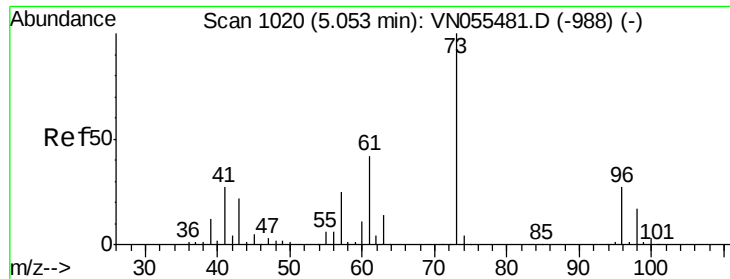
MMDadoda
5/10/2019 12:39:24 PM



#18
Methyl Acetate
Concen: 42.780 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion: 43 Resp: 466171
Ion Ratio Lower Upper
43 100
74 21.5 16.3 24.5





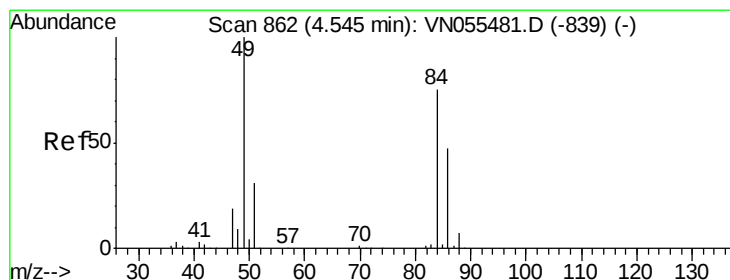
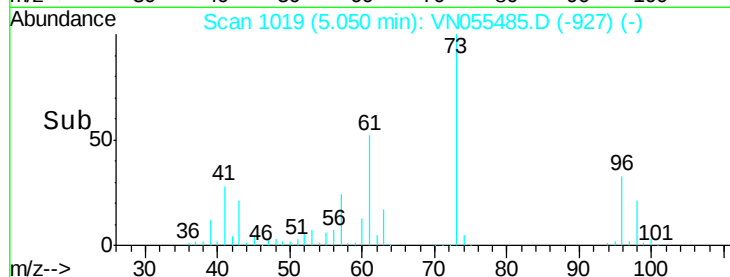
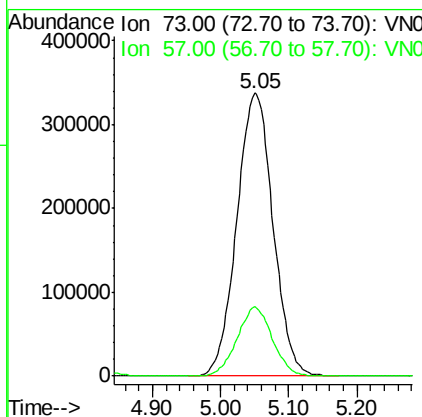
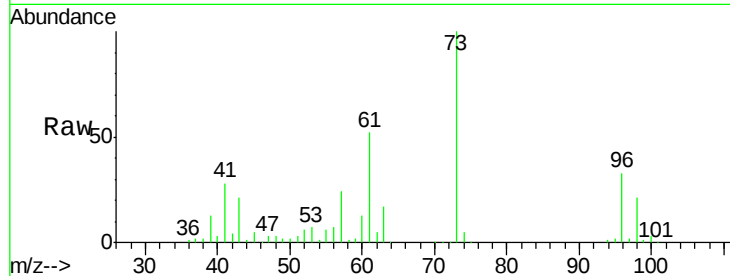
#19
Methvl tert-butvl Ether
Concen: 46.149 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1243683
Ion Ratio Lower Upper
73 100
57 24.3 20.0 30.0

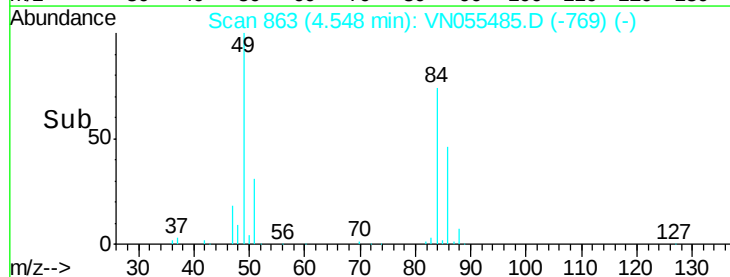
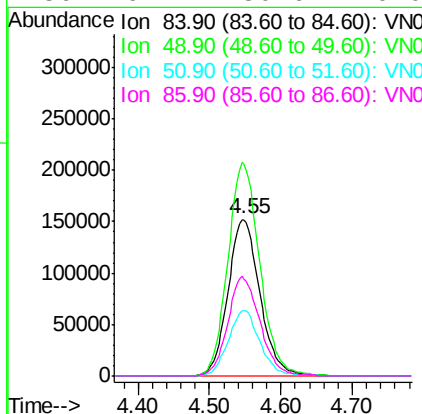
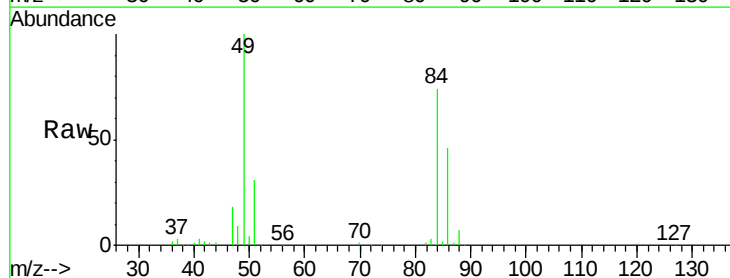
Manual Integrations
APPROVED

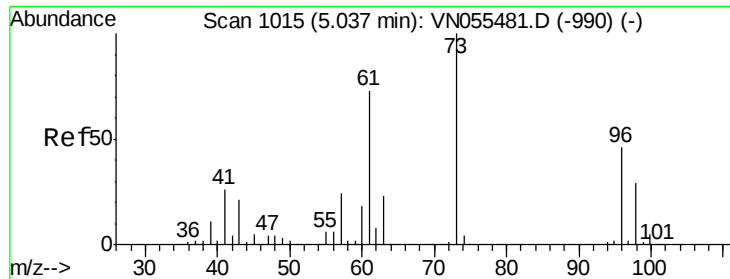
MMDadoda
5/10/2019 12:39:24 PM



#20
Methylene Chloride
Concen: 44.896 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion: 84 Resp: 474949
Ion Ratio Lower Upper
84 100
49 136.0 107.0 160.6
51 41.6 33.0 49.4
86 62.4 50.6 76.0





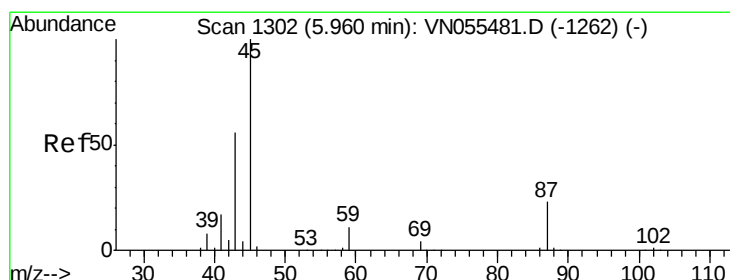
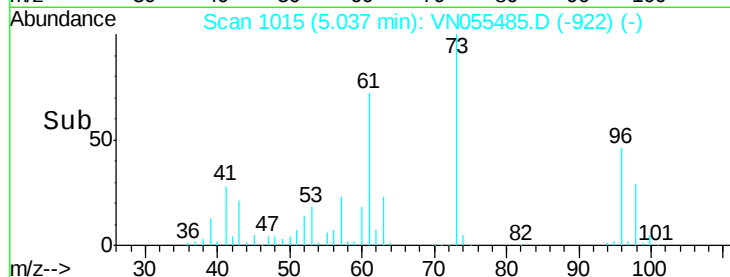
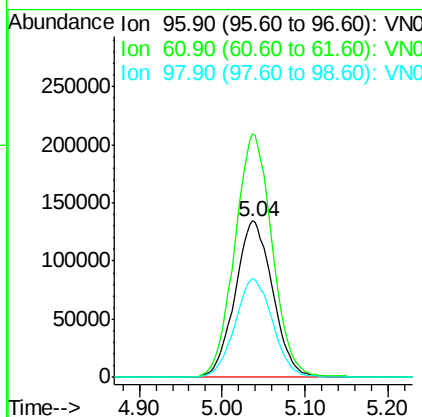
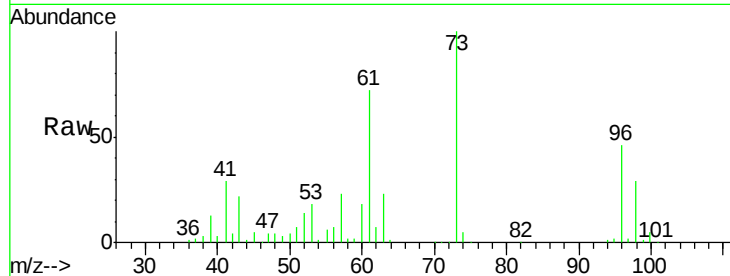
#21
trans-1,2-Dichloroethene
Concen: 48.300 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	155.6	127.4	191.0
98	63.3	51.6	77.4

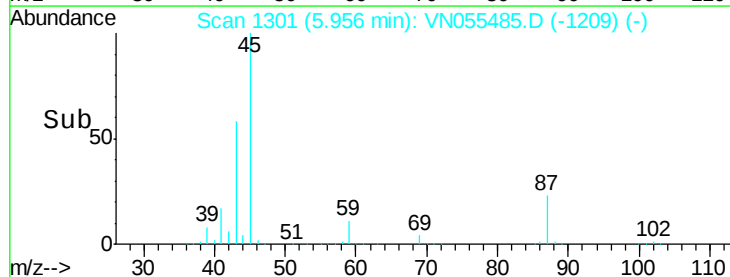
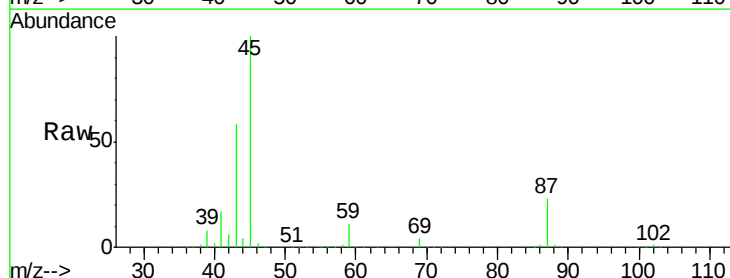
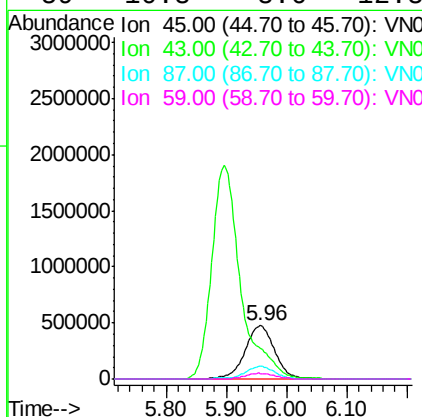
Manual Integrations
APPROVED

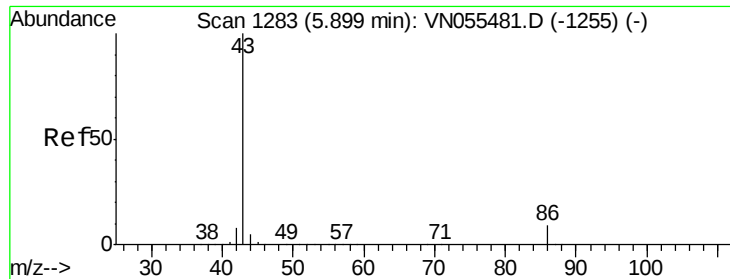
MMDadoda
5/10/2019 12:39:24 PM



#22
Diisopropyl ether
Concen: 48.581 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.6	44.6	66.8
87	23.4	18.6	28.0
59	10.8	8.6	12.8





#23

Vinyl Acetate

Concen: 241.488 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 6305057

Ion Ratio Lower Upper

43 100

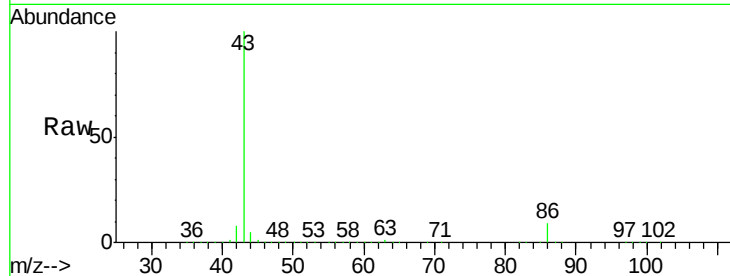
86 9.0 7.1 10.7

Manual Integrations

APPROVED

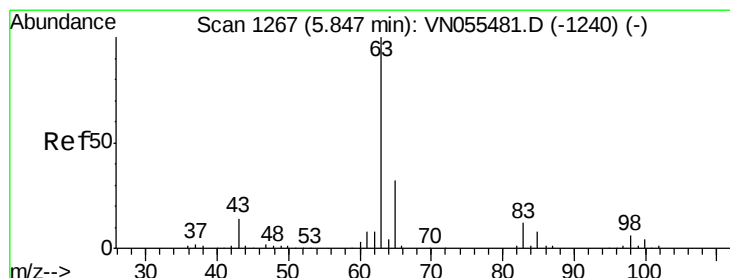
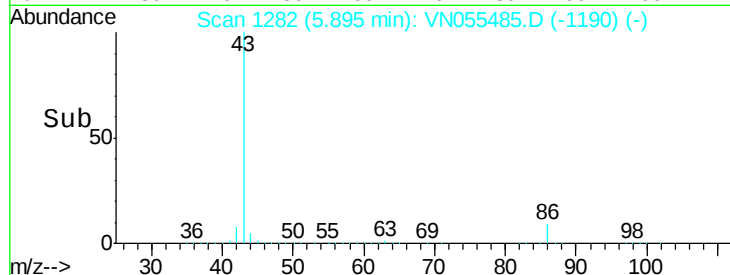
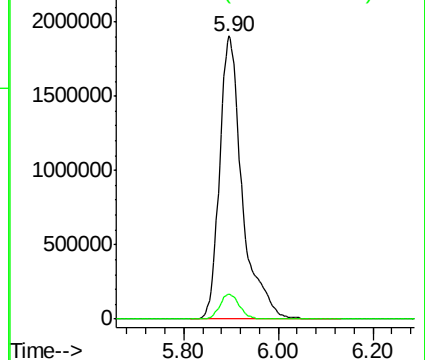
MMDadoda

5/10/2019 12:39:24 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 46.799 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

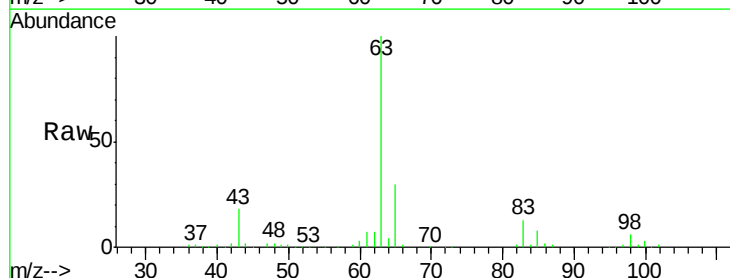
Tgt Ion: 63 Resp: 852902

Ion Ratio Lower Upper

63 100

98 6.1 3.0 9.0

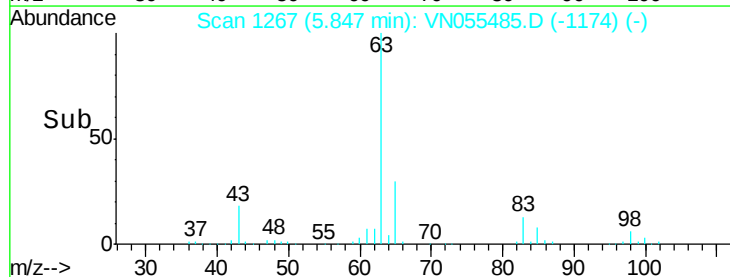
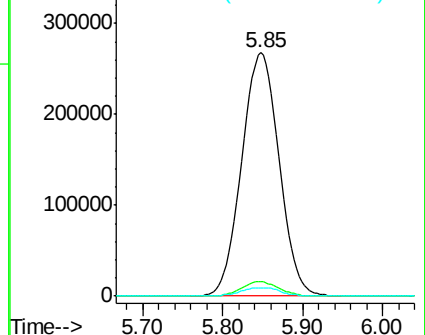
100 3.5 1.9 5.7



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 231.275 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. -0.01 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1652801

Ion Ratio Lower Upper

43 100

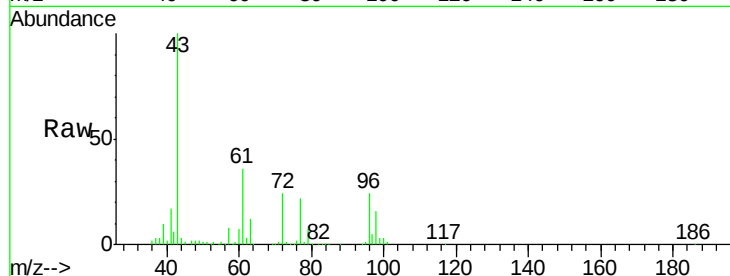
72 23.9 18.6 27.8

Manual Integrations

APPROVED

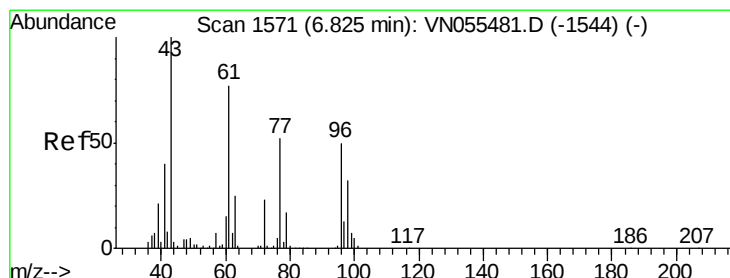
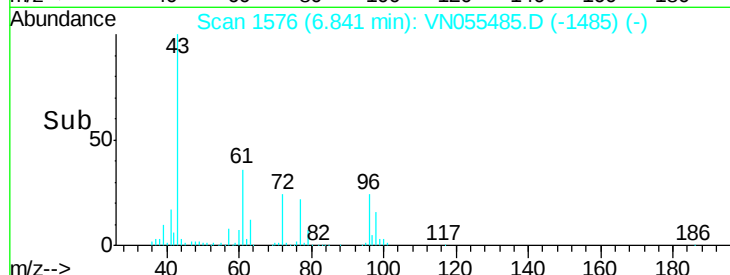
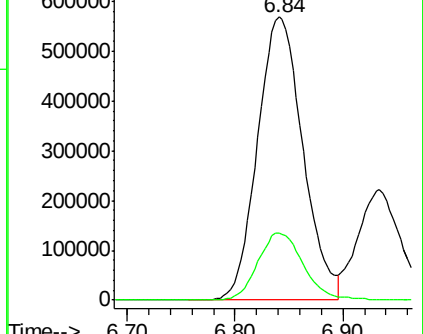
MMDadoda

5/10/2019 12:39:24 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 49.267 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN055485.D

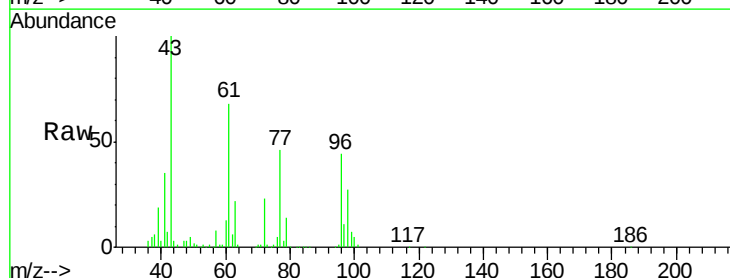
Acq: 9 May 2019 10:03

Tgt Ion: 77 Resp: 559727

Ion Ratio Lower Upper

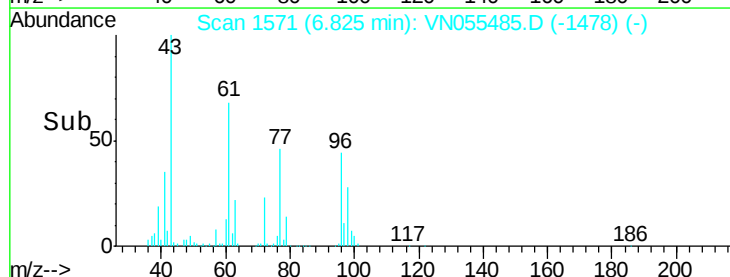
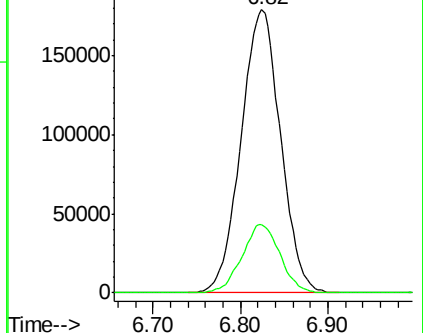
77 100

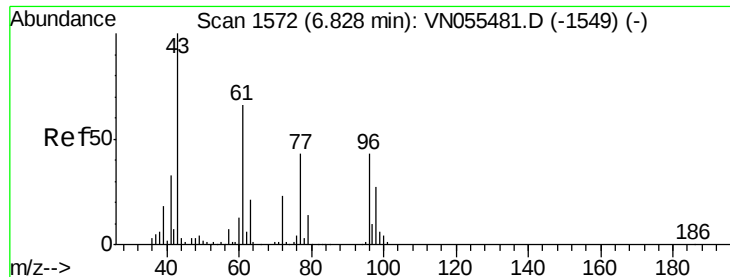
97 23.3 11.5 34.5



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





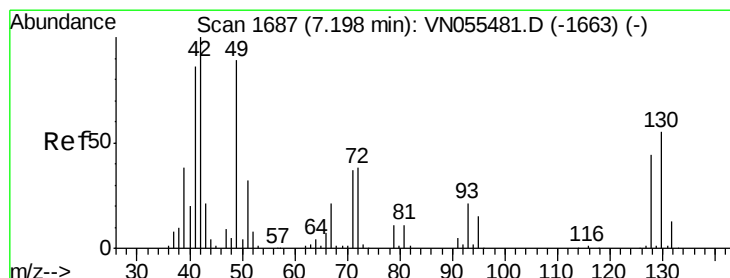
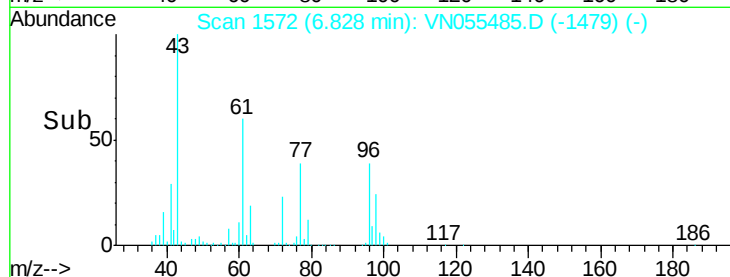
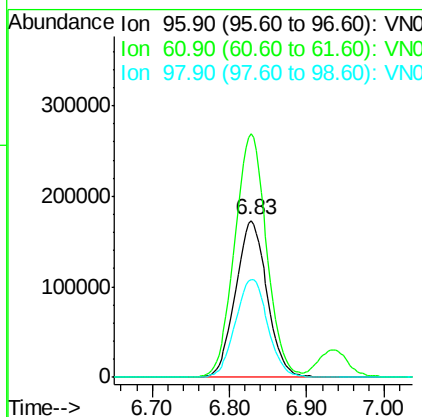
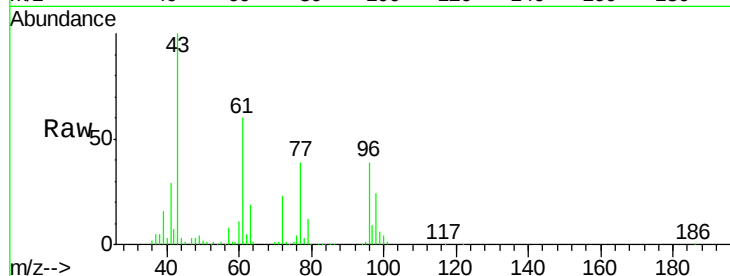
#27
 cis-1,2-Dichloroethene
 Concen: 48.150 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	489323		
61	157.4	0.0	310.8	
98	64.5	0.0	129.4	

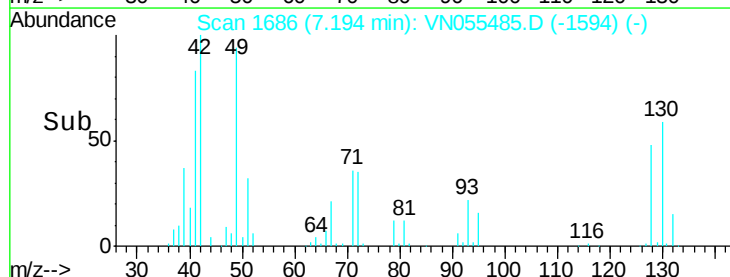
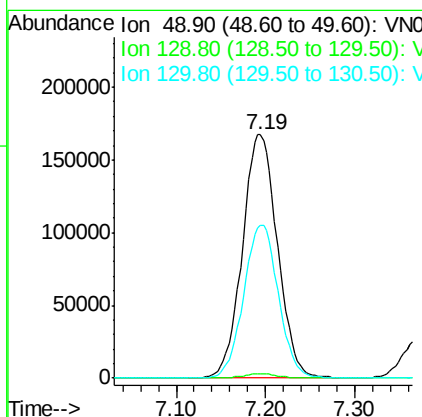
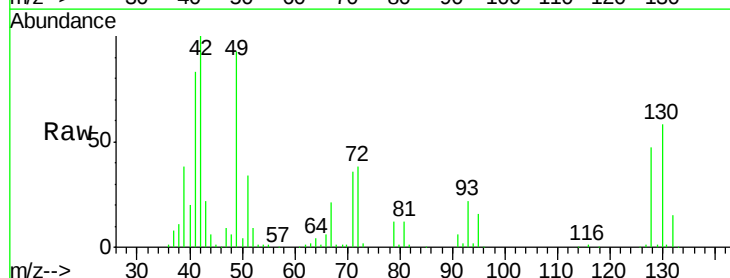
Manual Integrations
 APPROVED

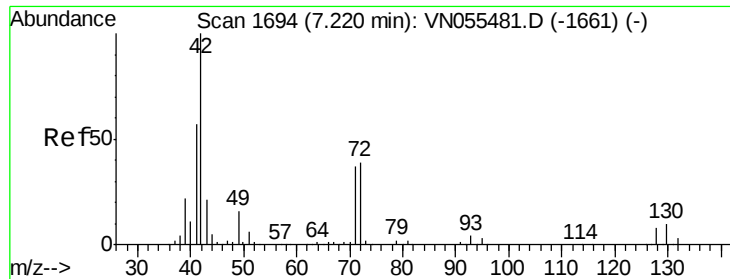
MMDadoda
 5/10/2019 12:39:24 PM



#28
 Bromochloromethane
 Concen: 48.408 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	458152		
129	1.7	0.0	3.2	
130	62.3	49.5	74.3	





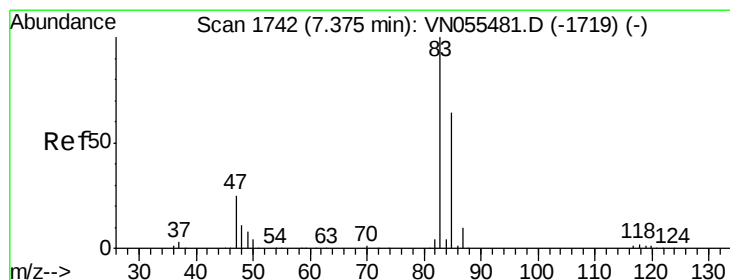
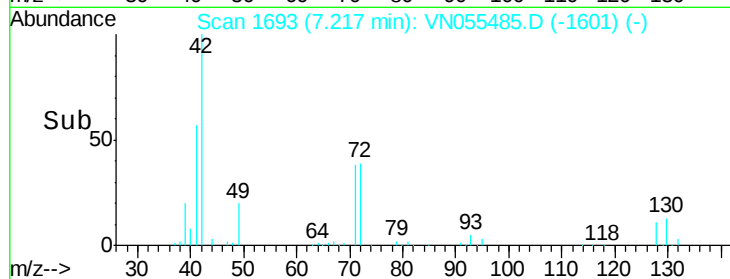
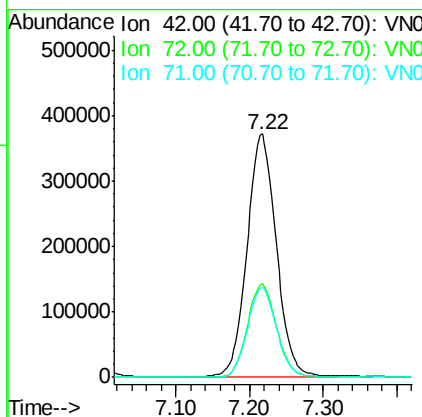
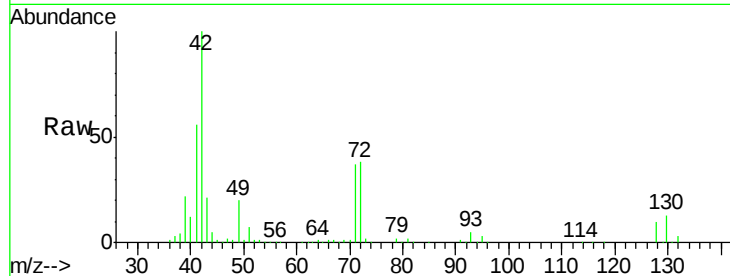
#29
Tetrahydrofuran
Concen: 217.702 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.3	31.0	46.6
71	36.7	29.4	44.2

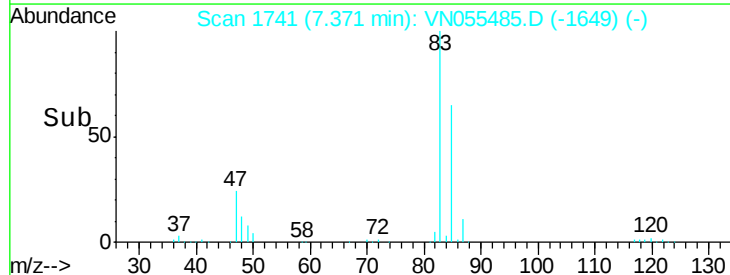
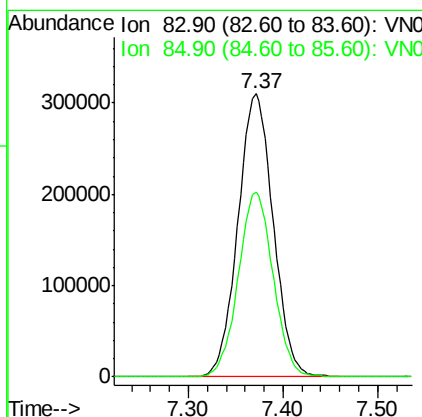
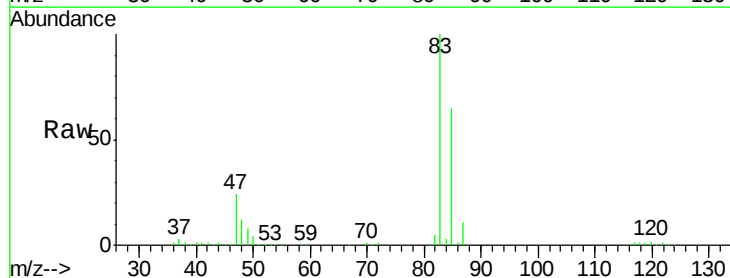
Manual Integrations
APPROVED

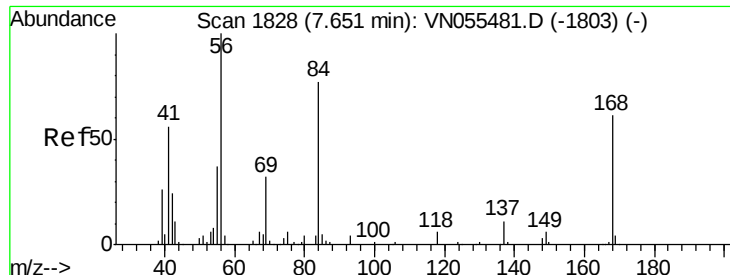
MMDadoda
5/10/2019 12:39:24 PM



#30
Chloroform
Concen: 47.671 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.3	76.9





#31

Cyclohexane

Concen: 46.513 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

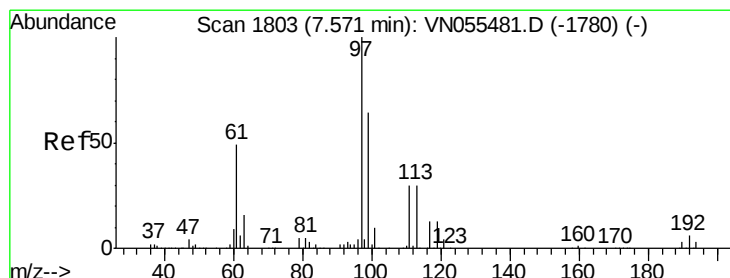
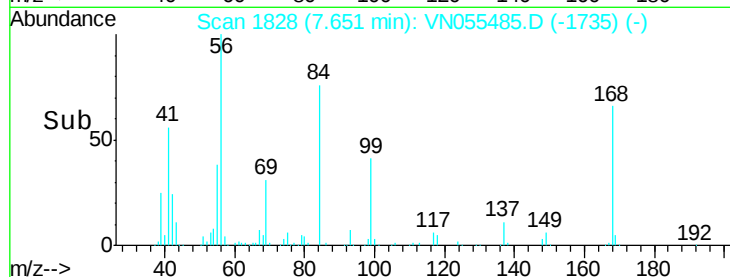
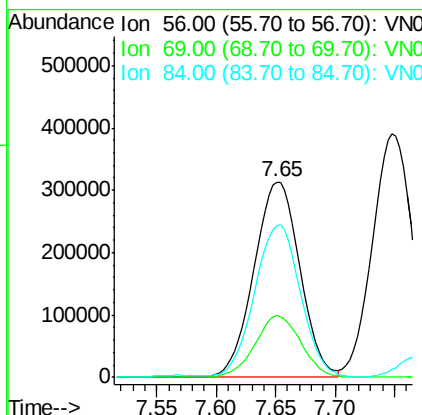
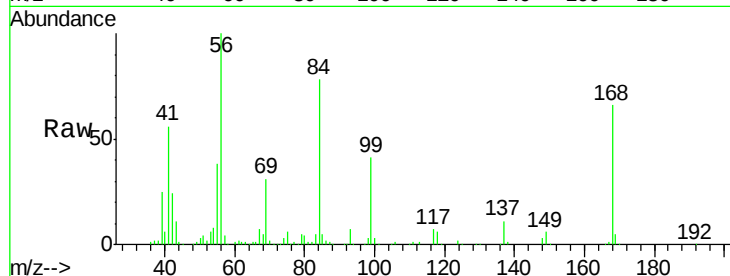
ClientSampled :

VSTDCCC050

Tot Ion	56	Resp	838718
Ion	Ratio	Lower	Upper
56	100		
69	31.4	26.0	39.0
84	76.6	61.9	92.9

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#32

1,1,1-Trichloroethane

Concen: 48.537 ug/l

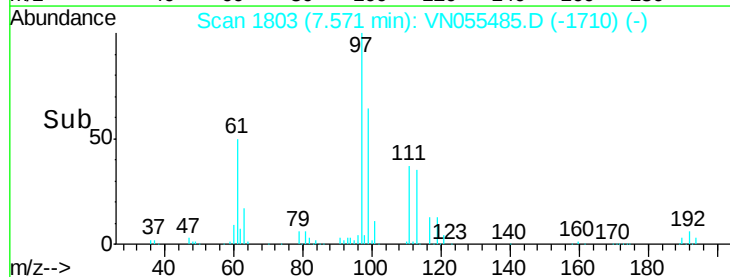
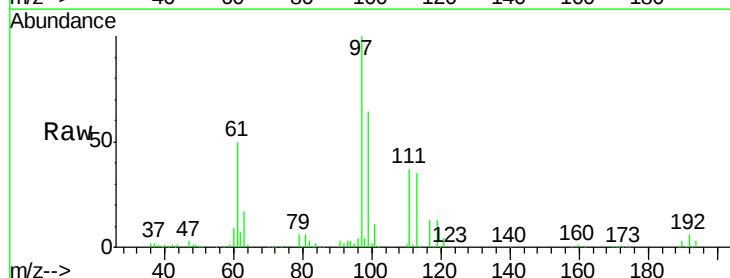
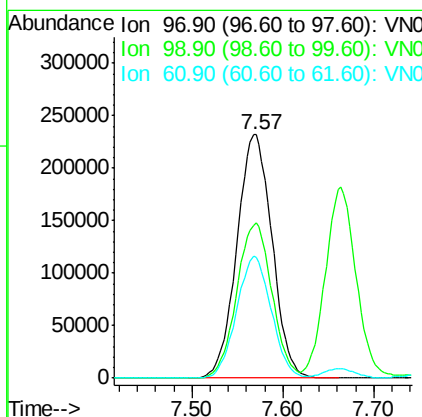
RT: 7.57 min Scan# 1803

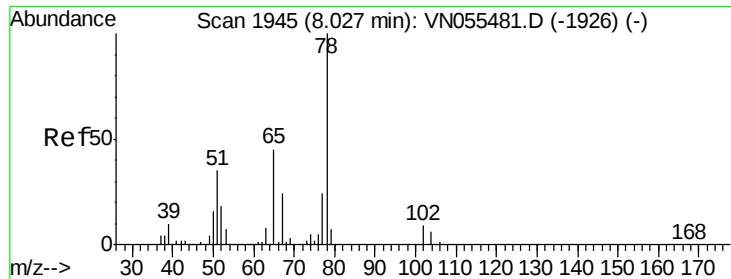
Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion	97	Resp	622731
Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.2	76.8
61	49.2	39.2	58.8





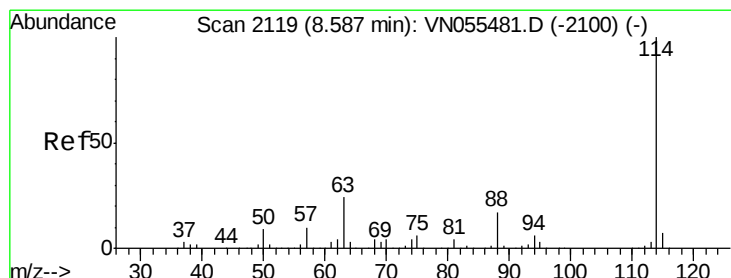
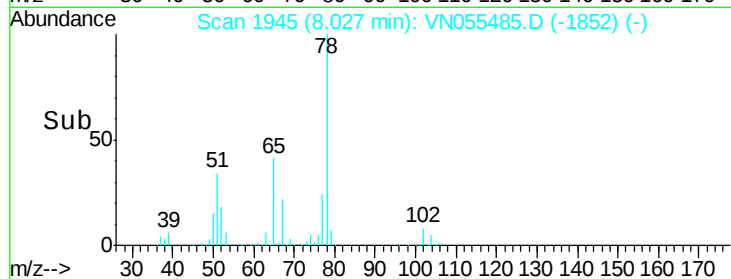
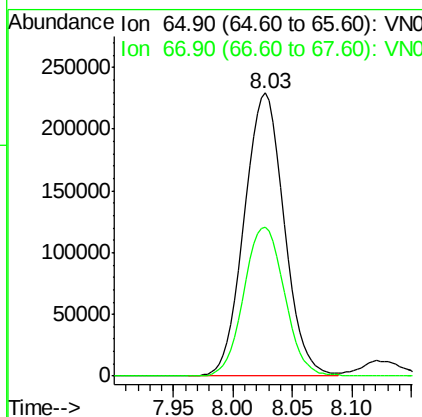
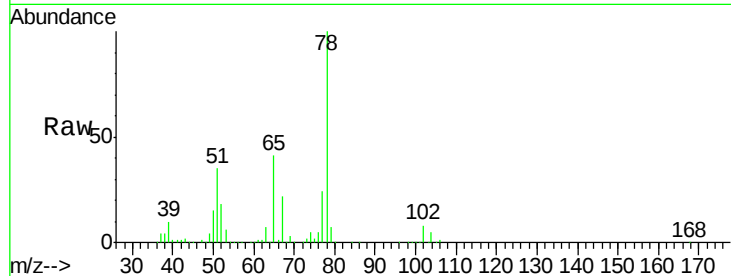
#33
 1,2-Dichloroethane-d4
 Concen: 47.789 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.7	0.0	109.6	

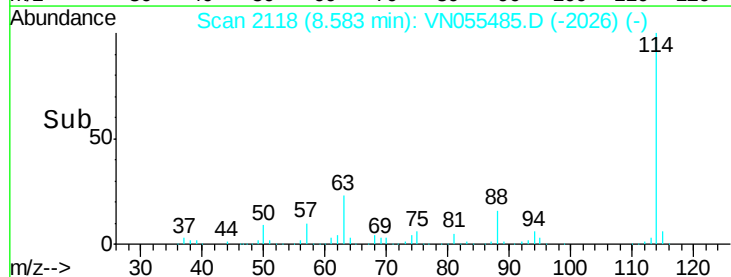
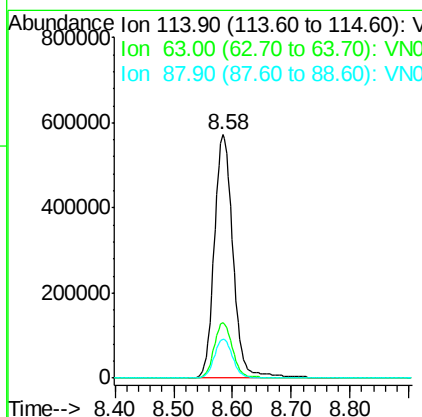
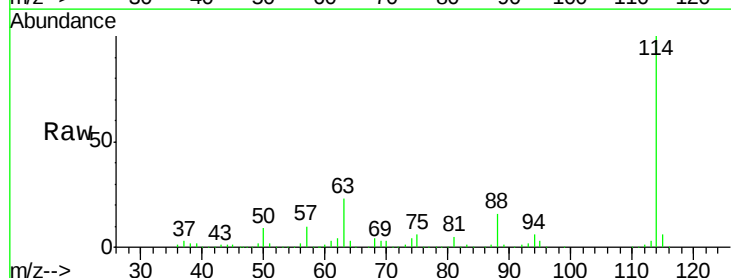
Manual Integrations
 APPROVED

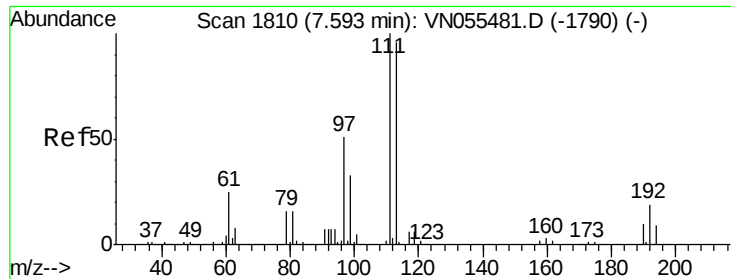
MMDadoda
 5/10/2019 12:39:24 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.7	0.0	47.4	
88	16.1	0.0	34.0	





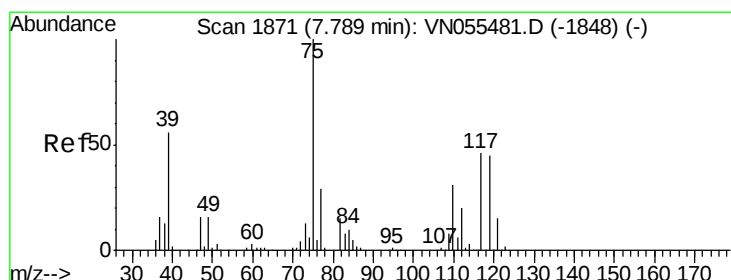
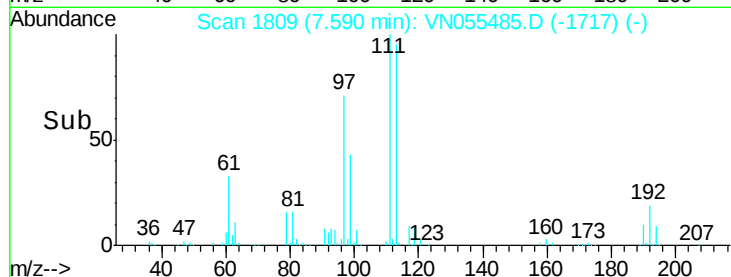
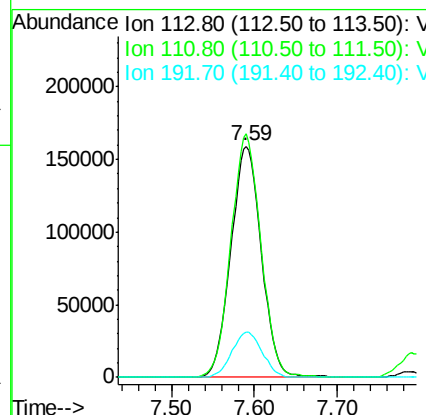
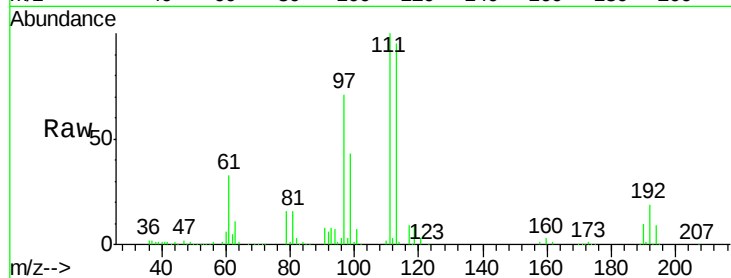
#35
 Dibromofluoromethane
 Concen: 50.068 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.5	82.9	124.3	
192	19.5	15.6	23.4	

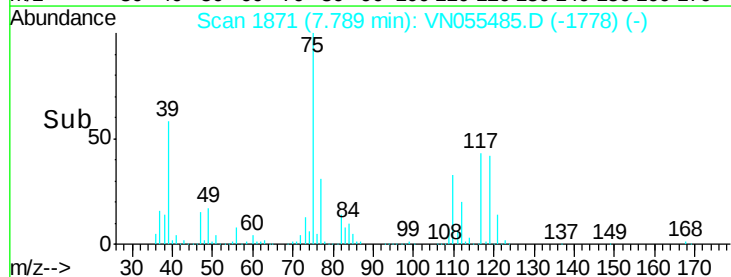
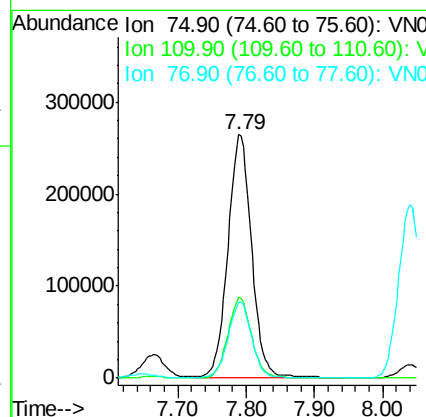
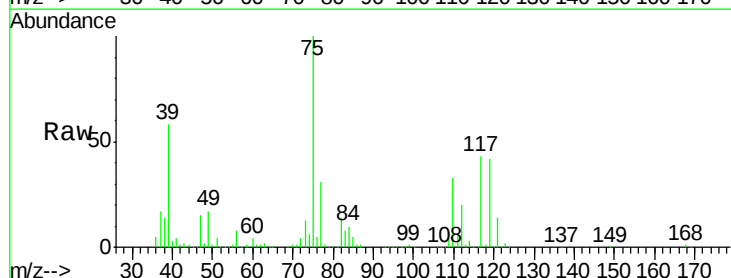
Manual Integrations
 APPROVED

MMDadoda
 5/10/2019 12:39:24 PM



#36
 1,1-Dichloropropene
 Concen: 51.433 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	32.9	16.1	48.3	
77	31.5	24.6	37.0	





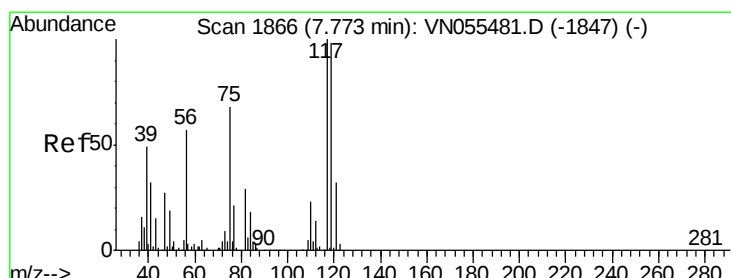
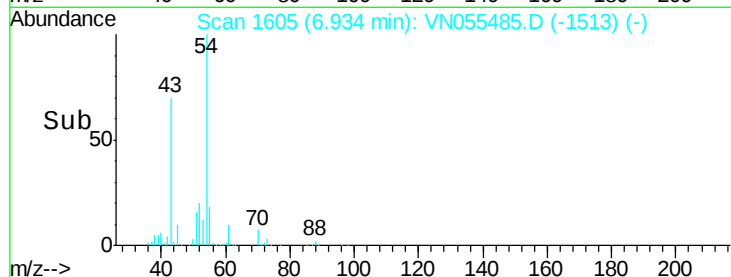
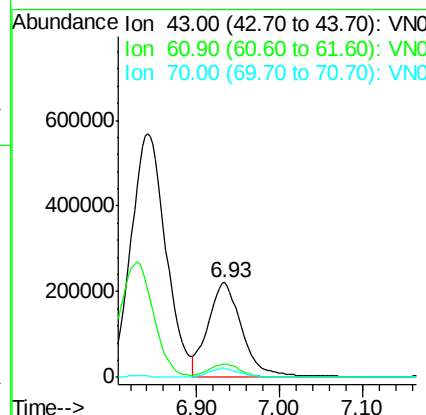
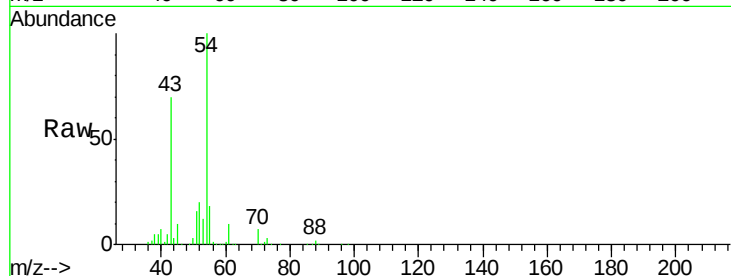
#37
Ethyl Acetate
Concen: 46.229 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.9	16.3
70	8.5	7.0	10.6

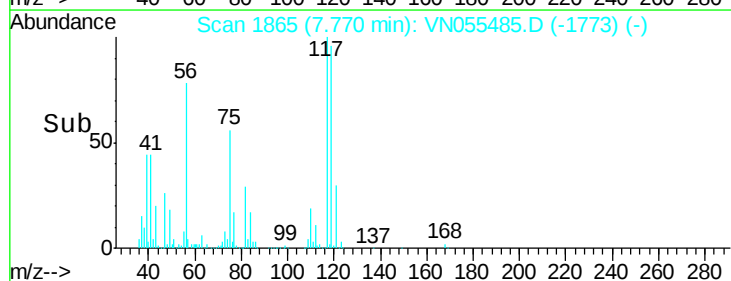
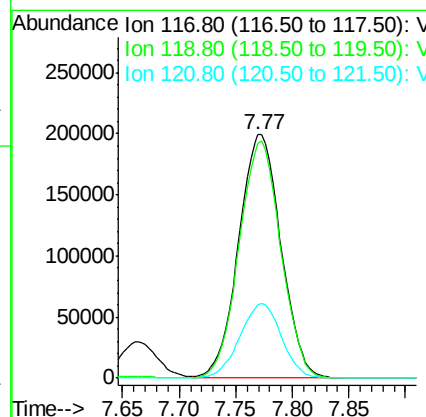
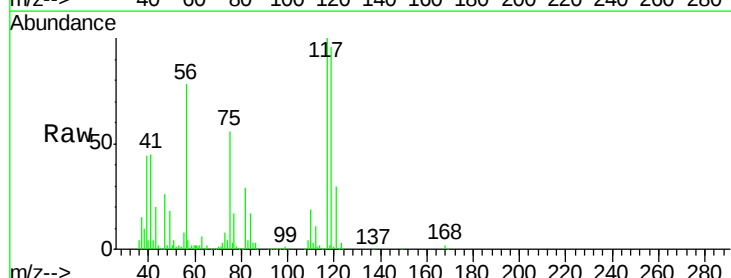
Manual Integrations
APPROVED

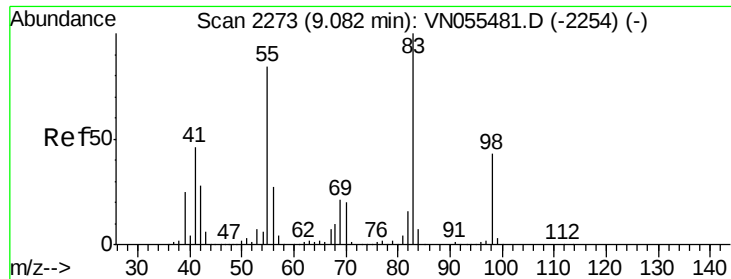
MMDadoda
5/10/2019 12:39:24 PM



#38
Carbon Tetrachloride
Concen: 49.312 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.8	116.6
121	30.0	25.2	37.8





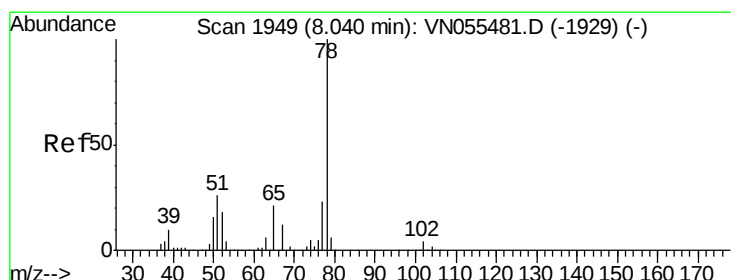
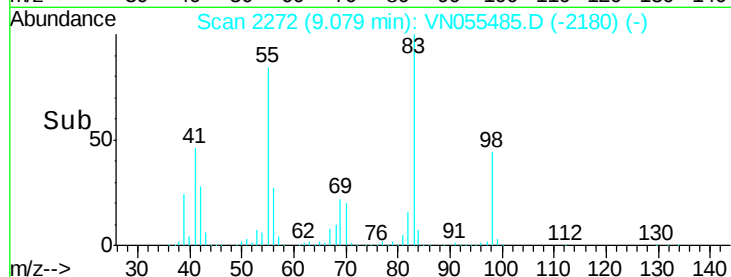
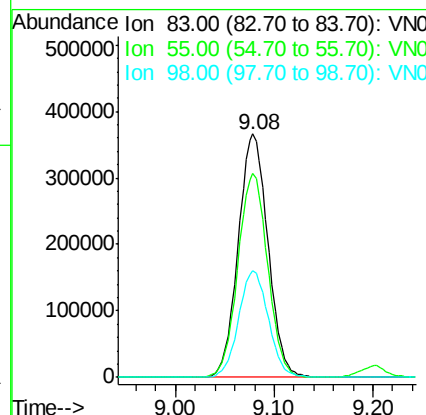
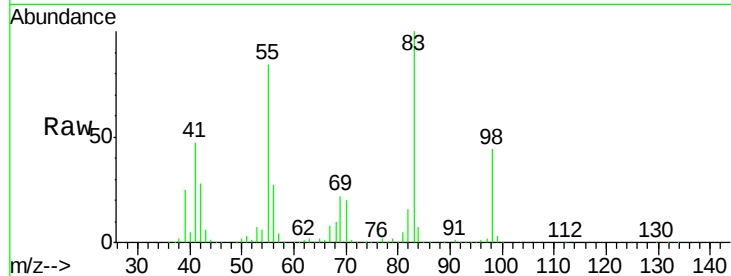
#39
Methvlcvclohexane
Concen: 50.625 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83.00	Resp	766676
Ion Ratio	Lower	Upper	
83	100		
55	83.9	67.0	100.4
98	43.7	34.2	51.4

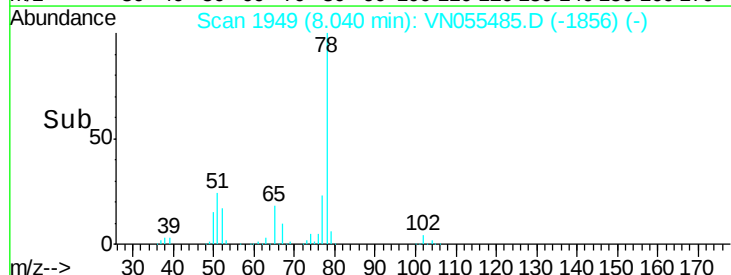
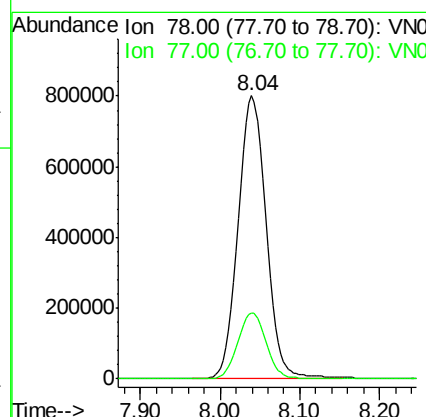
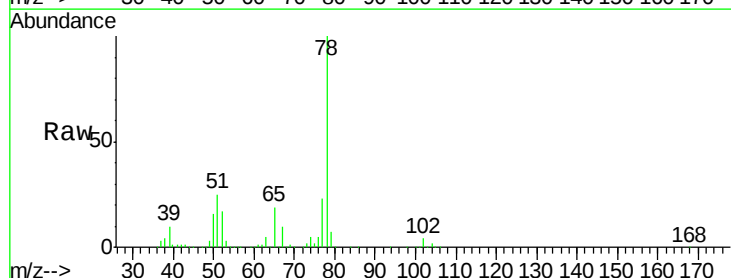
Manual Integrations
APPROVED

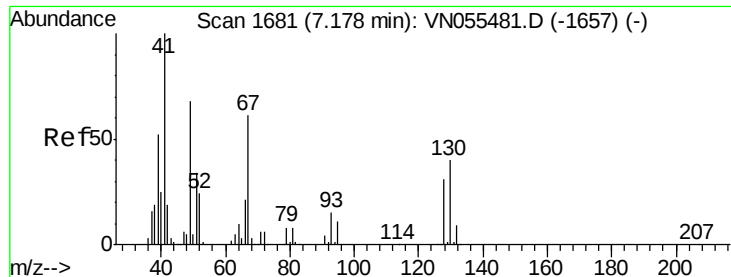
MMDadoda
5/10/2019 12:39:24 PM



#40
Benzene
Concen: 49.224 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion	78.00	Resp	1897529
Ion Ratio	Lower	Upper	
78	100		
77	23.4	18.6	27.8





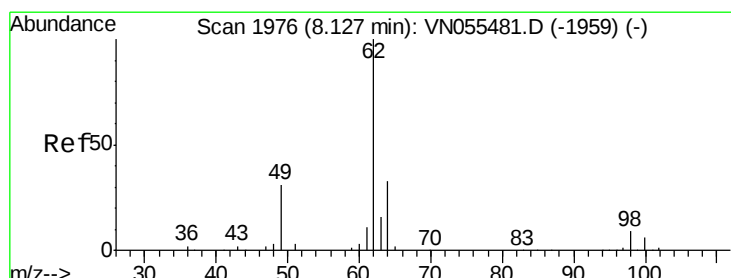
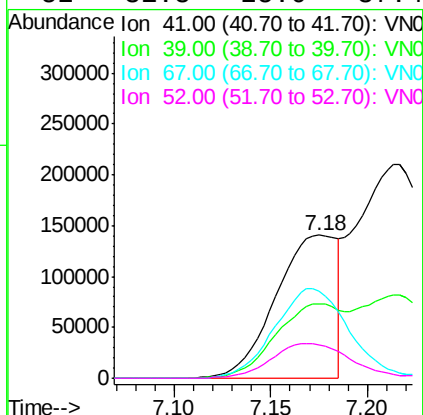
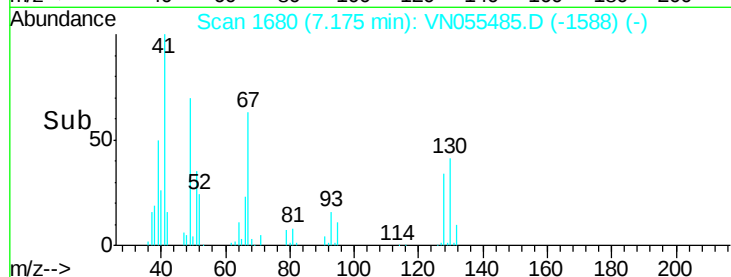
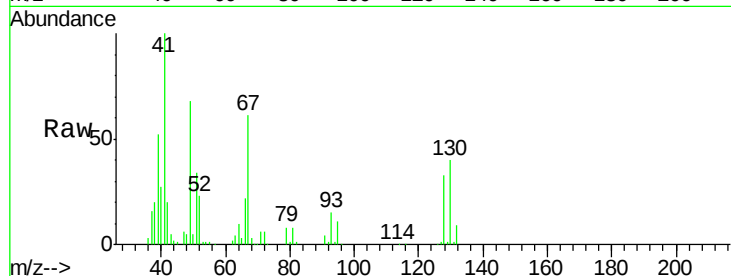
#41
Methacrylonitrile
Concen: 49.128 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.5	44.7	67.1	
67	77.6	61.4	92.0	
52	31.8	25.0	37.4	

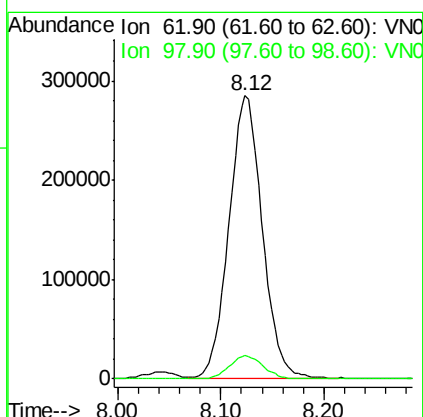
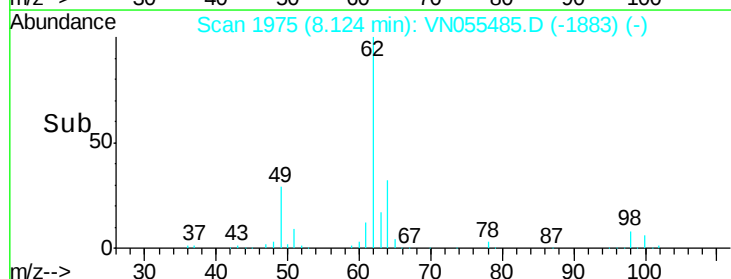
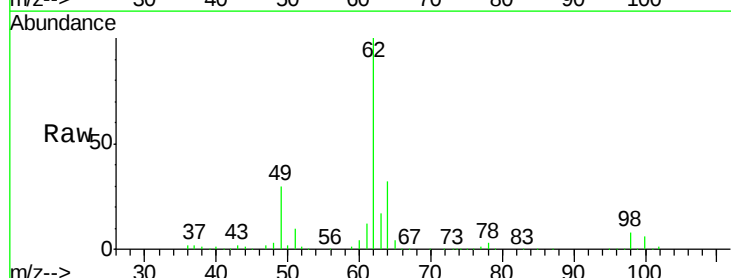
Manual Integrations
APPROVED

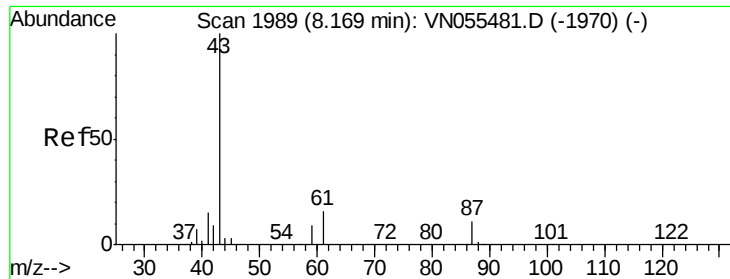
MMDadoda
5/10/2019 12:39:24 PM



#42
1,2-Dichloroethane
Concen: 47.304 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.4	0.0	17.4	





#43

Isopropyl Acetate

Concen: 47.127 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

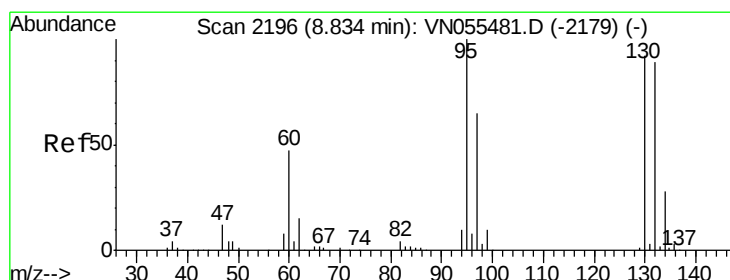
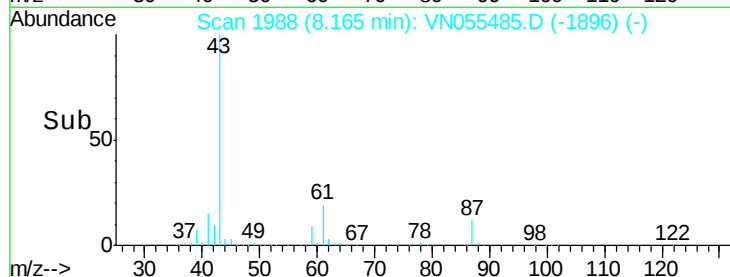
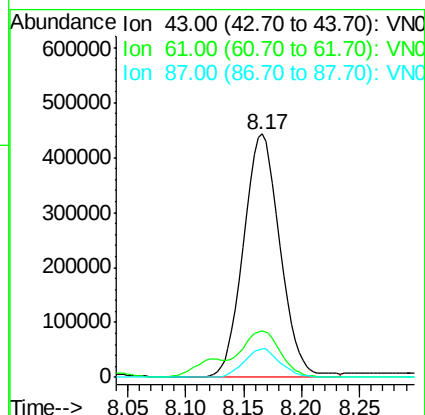
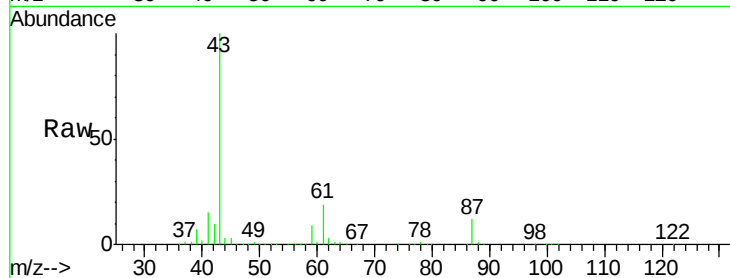
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	970070
Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.1	22.7
87	11.7	9.0	13.6

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#44

Trichloroethene

Concen: 49.410 ug/l

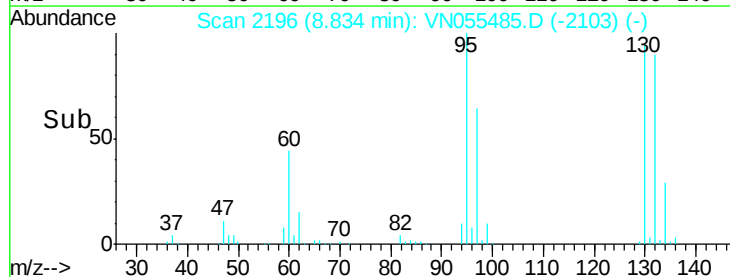
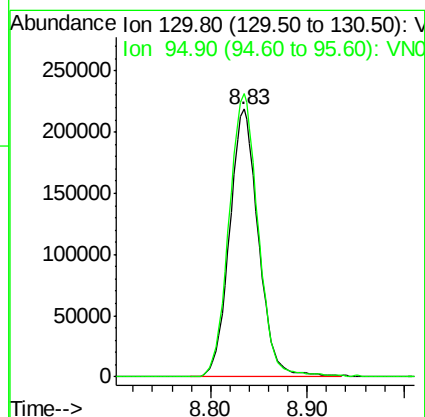
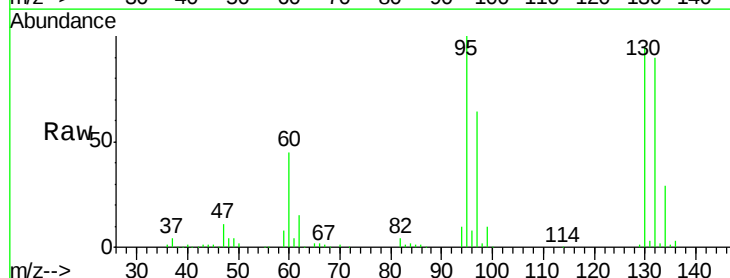
RT: 8.83 min Scan# 2196

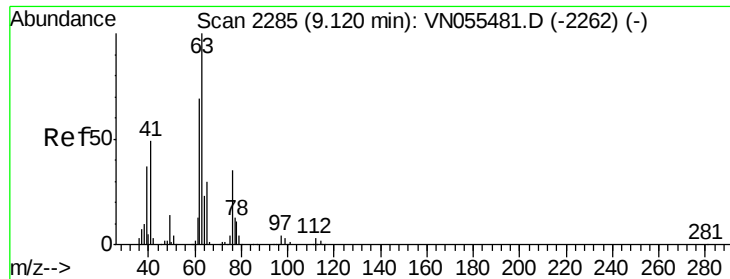
Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion:	130	Resp:	453207
Ion	Ratio	Lower	Upper
130	100		
95	105.7	0.0	216.8





#45

1,2-Dichloropropane

Concen: 48.208 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 63 Resp: 531726

Ion Ratio Lower Upper

63 100

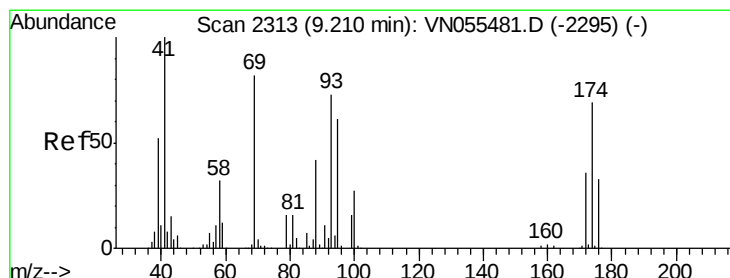
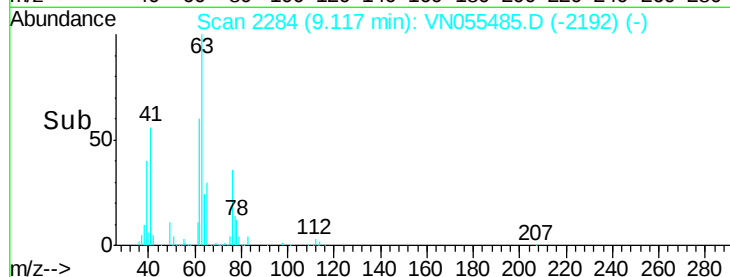
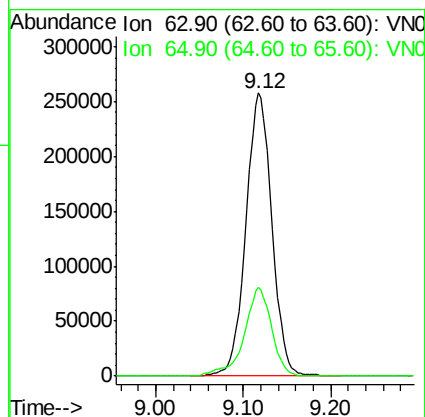
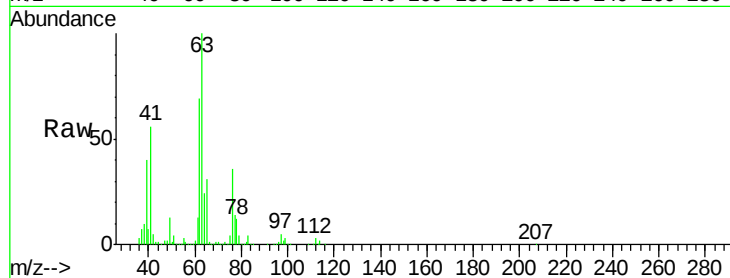
65 31.3 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

5/10/2019 12:39:24 PM



#46

Dibromomethane

Concen: 48.188 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

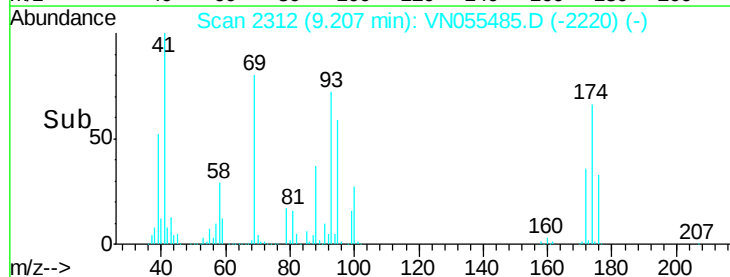
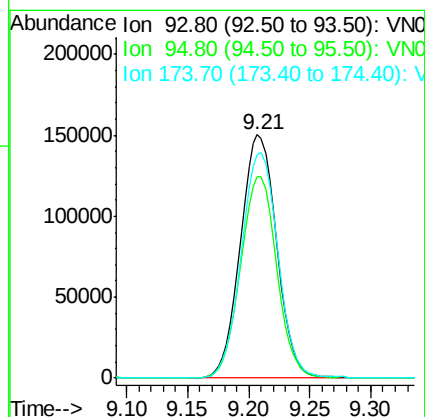
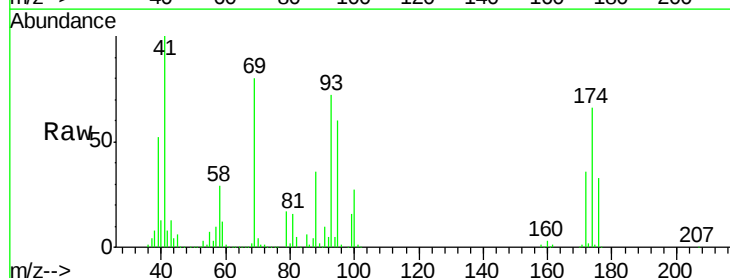
Tgt Ion: 93 Resp: 308079

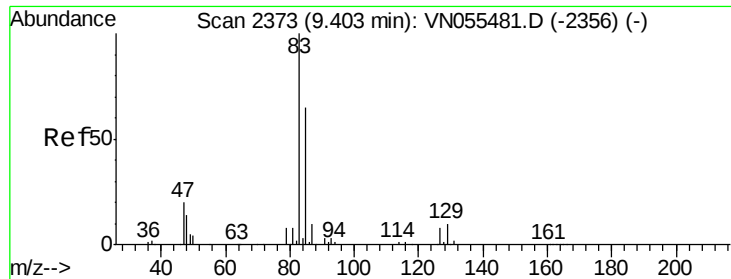
Ion Ratio Lower Upper

93 100

95 82.4 64.8 97.2

174 93.9 75.0 112.6





#47

Bromodichloromethane

Concen: 49.972 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

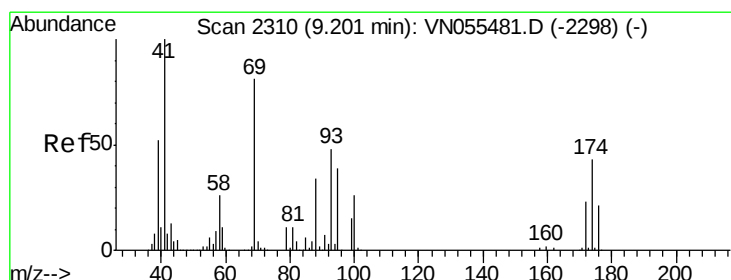
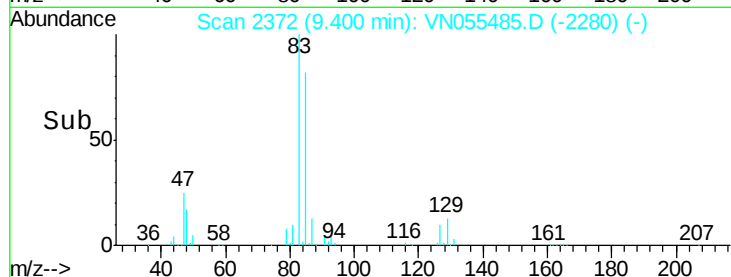
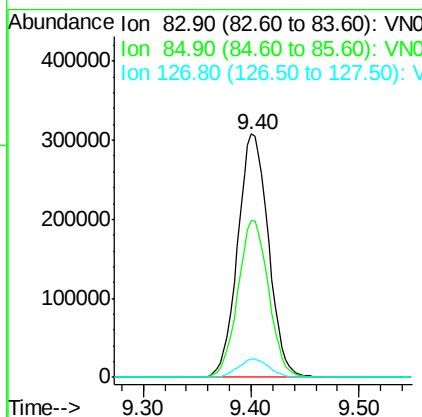
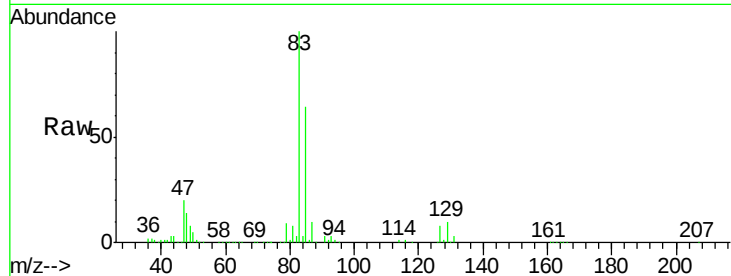
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	611196
Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.2	78.2
127	7.6	6.5	9.7

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#48

Methyl methacrylate

Concen: 47.534 ug/l

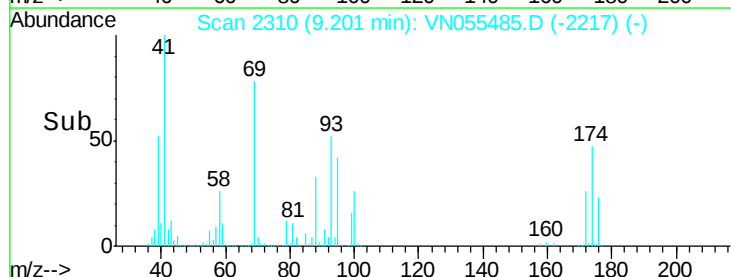
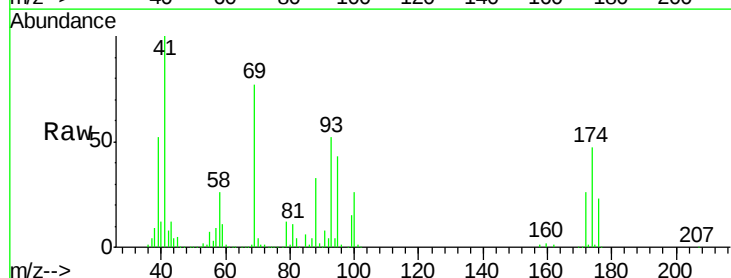
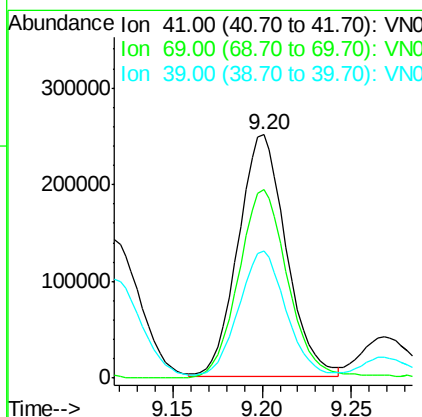
RT: 9.20 min Scan# 2310

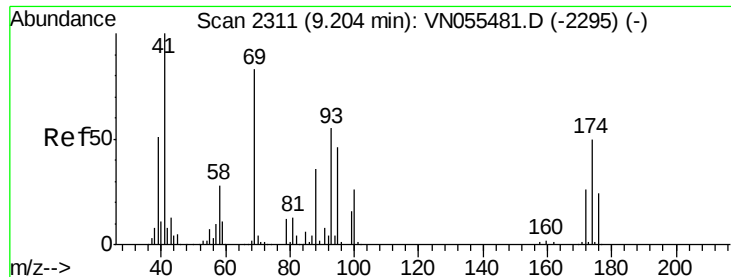
Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion:	41	Resp:	471425
Ion	Ratio	Lower	Upper
41	100		
69	80.6	64.2	96.2
39	51.8	41.6	62.4





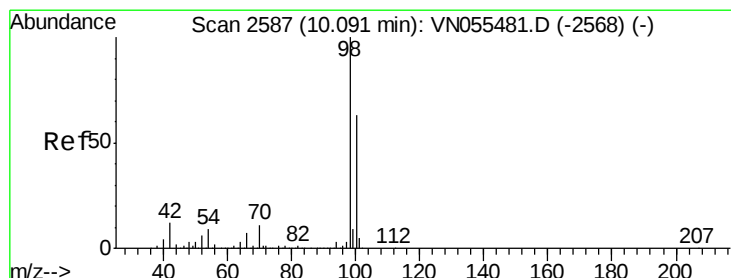
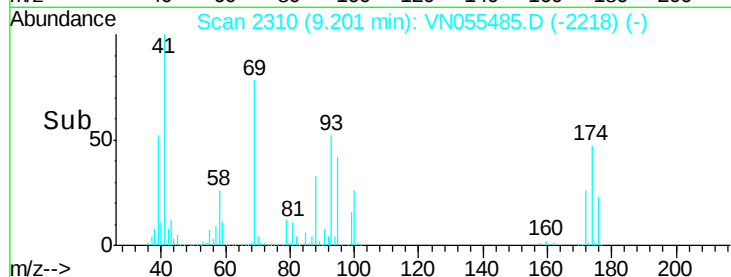
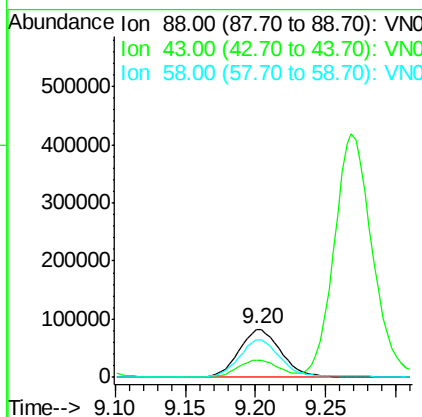
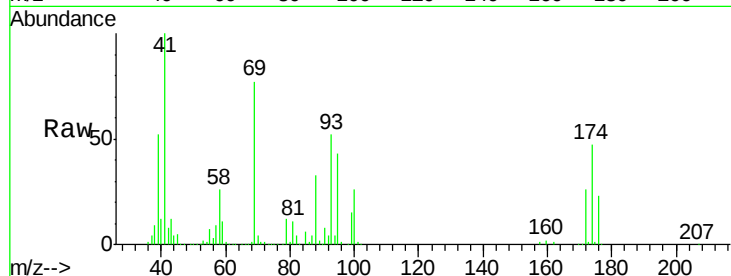
#49
1,4-Dioxane
Concen: 893.869 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	88	Resp	172783
Ion	Ratio	Lower	Upper
88	100		
43	33.5	27.8	41.8
58	76.1	61.8	92.6

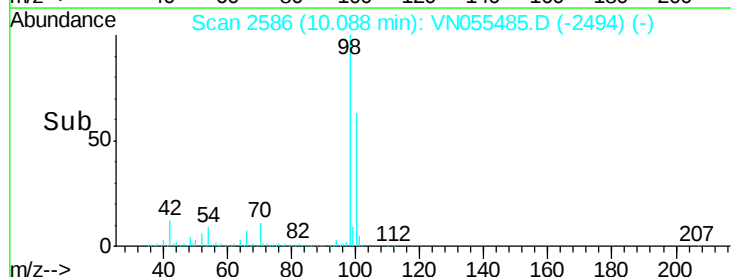
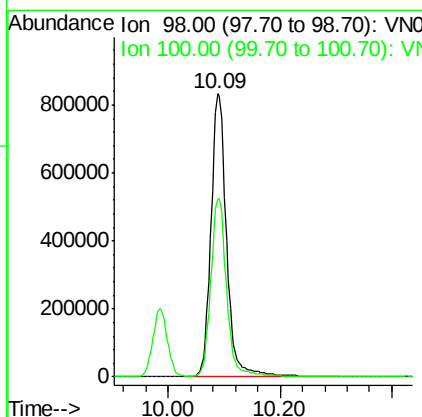
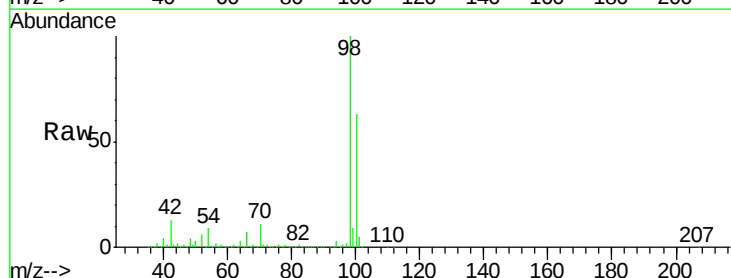
Manual Integrations
APPROVED

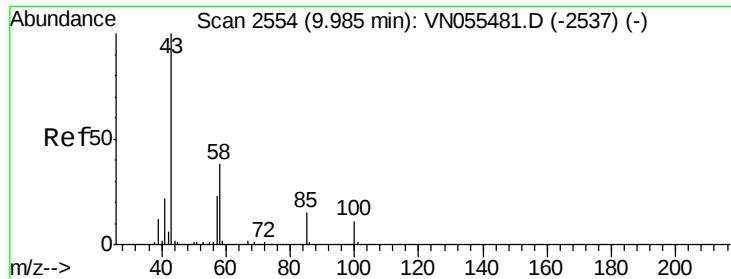
MMDadoda
5/10/2019 12:39:24 PM



#50
Toluene-d8
Concen: 51.127 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion	98	Resp	1620398
Ion	Ratio	Lower	Upper
98	100		
100	64.3	50.4	75.6





#51

4-Methyl-2-Pentanone

Concen: 227.313 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3077345

Ion Ratio Lower Upper

43 100

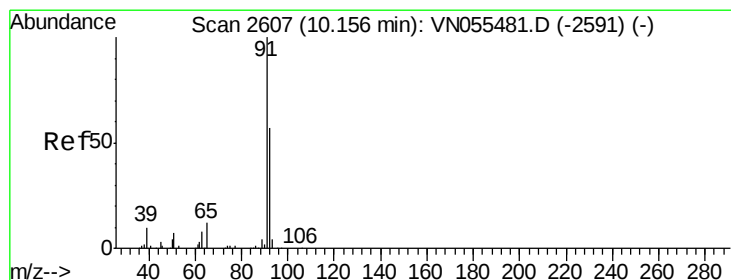
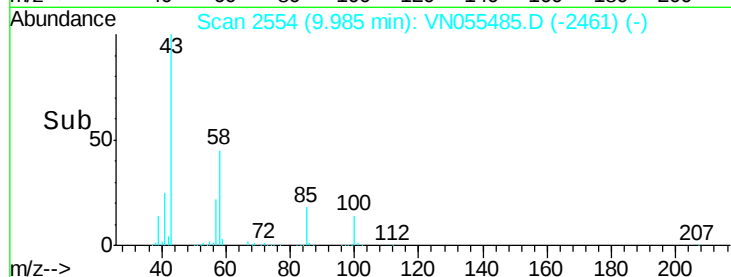
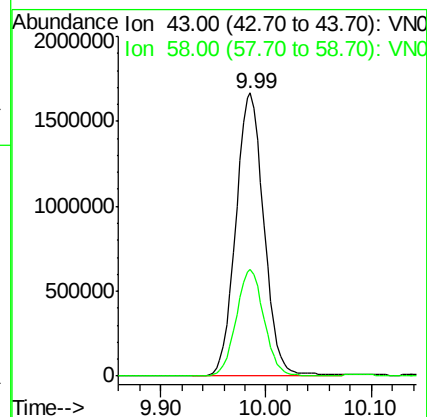
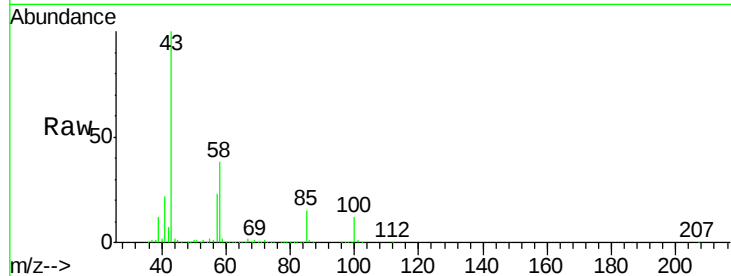
58 37.4 29.9 44.9

Manual Integrations

APPROVED

MMDadoda

5/10/2019 12:39:24 PM



#52

Toluene

Concen: 51.073 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN055485.D

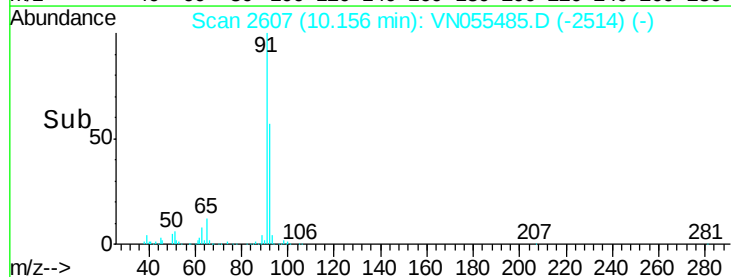
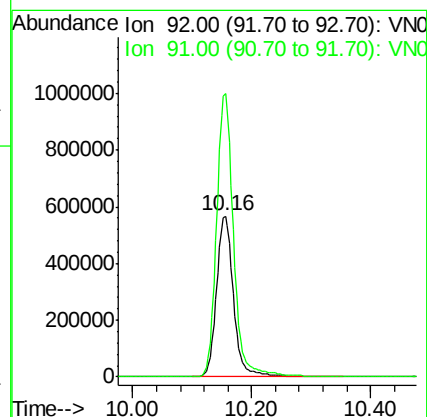
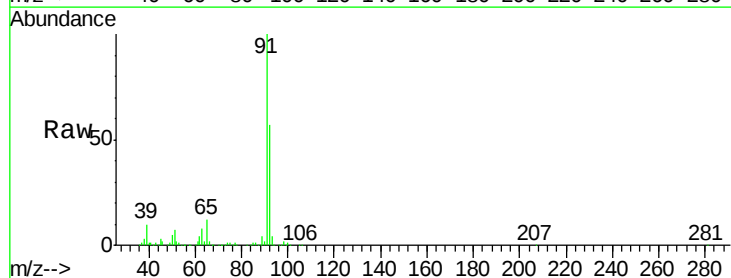
Acq: 9 May 2019 10:03

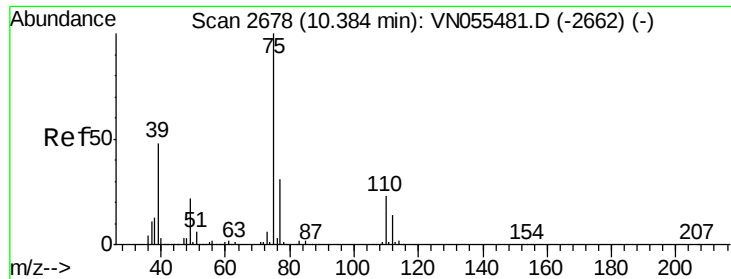
Tgt Ion: 92 Resp: 1125568

Ion Ratio Lower Upper

92 100

91 175.8 140.5 210.7





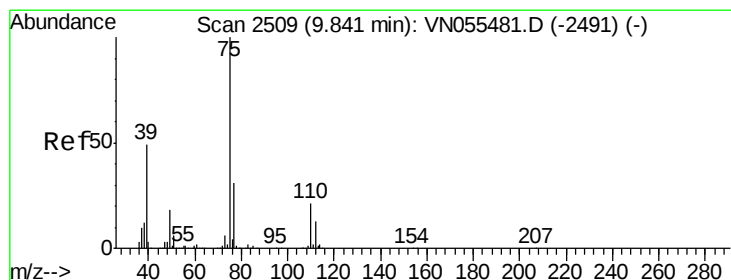
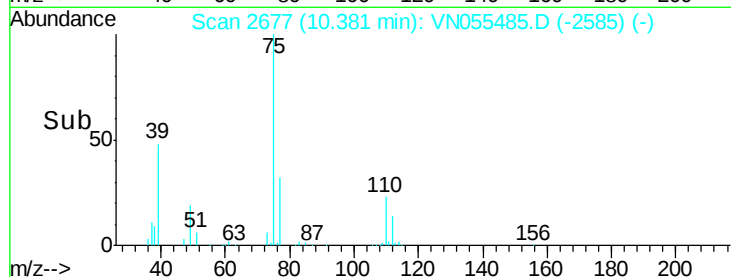
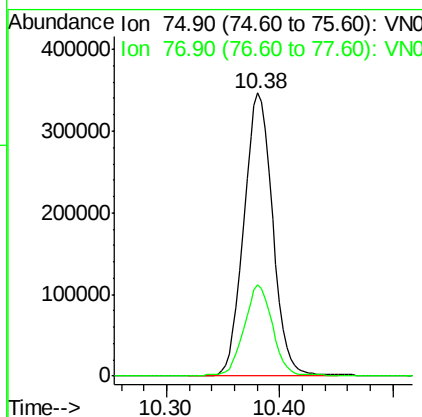
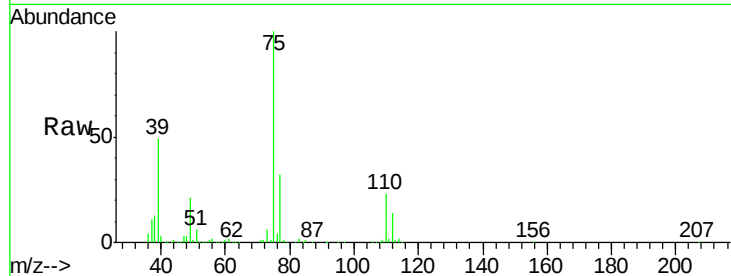
#53
t-1,3-Dichloropropene
Concen: 52.403 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 615571
Ion Ratio Lower Upper
75 100
77 31.9 25.1 37.7

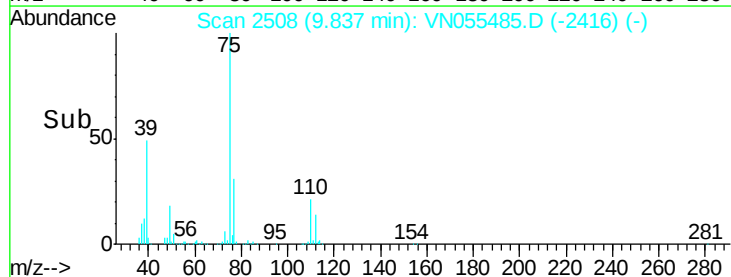
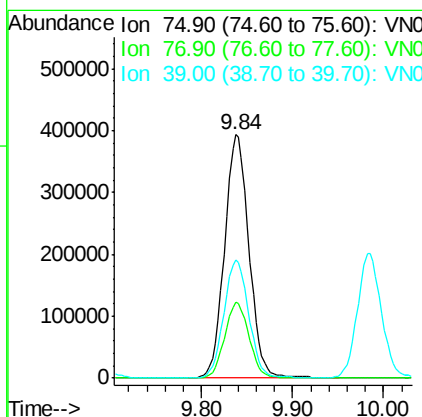
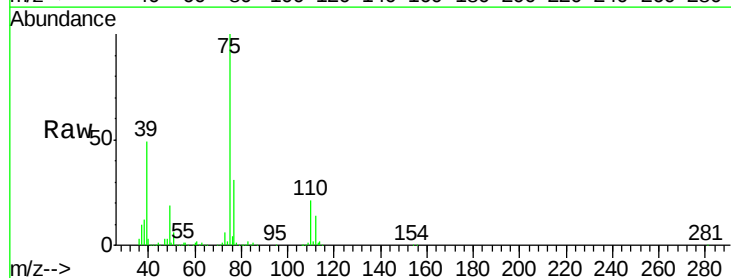
Manual Integrations
APPROVED

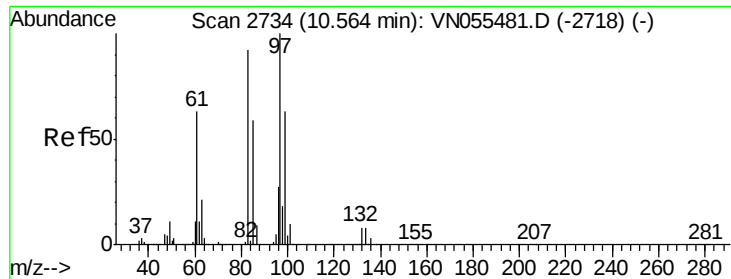
MMDadoda
5/10/2019 12:39:24 PM



#54
cis-1,3-Dichloropropene
Concen: 52.279 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion: 75 Resp: 733831
Ion Ratio Lower Upper
75 100
77 31.0 24.4 36.6
39 48.6 39.5 59.3





#55

1,1,2-Trichloroethane

Concen: 48.871 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

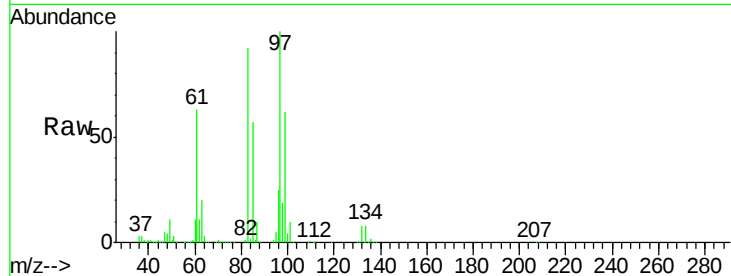
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	436379
Ion	Ratio	Lower	Upper
97	100		
83	91.6	73.2	109.8
85	57.0	47.5	71.3
99	62.3	50.2	75.2

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM

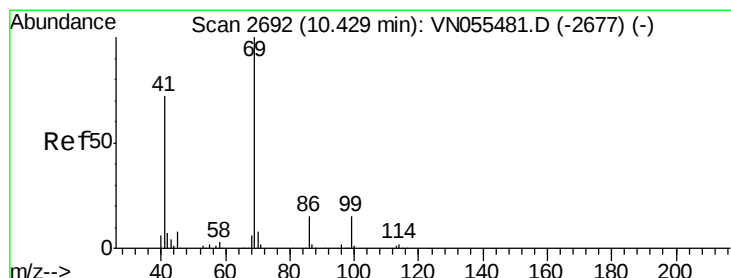
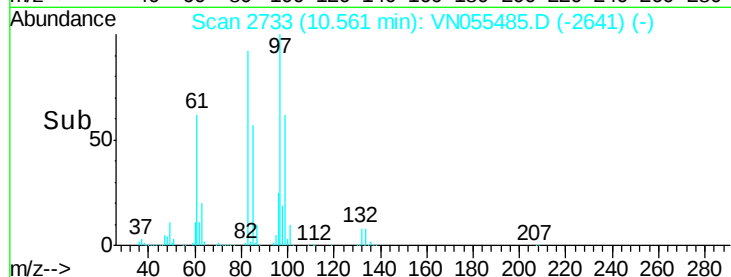
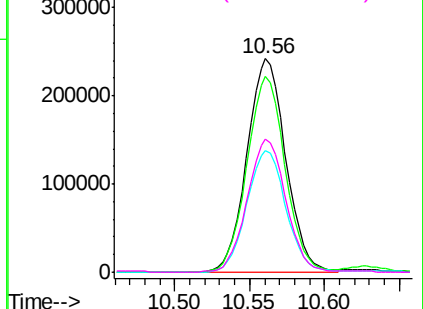


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 47.838 ug/l

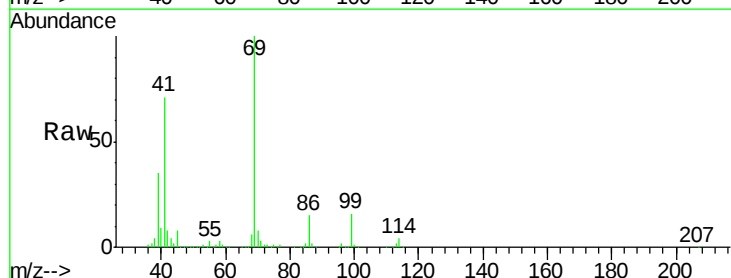
RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

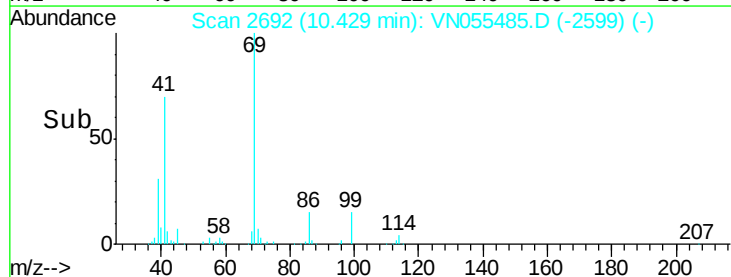
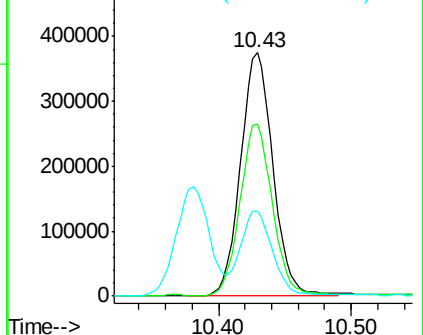
Tgt Ion:	69	Resp:	635364
Ion	Ratio	Lower	Upper
69	100		
41	70.5	56.2	84.2
39	33.7	27.8	41.6

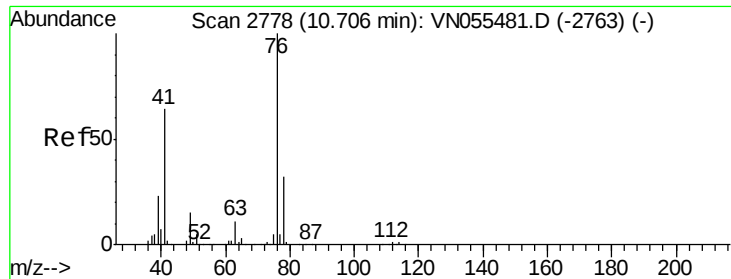


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





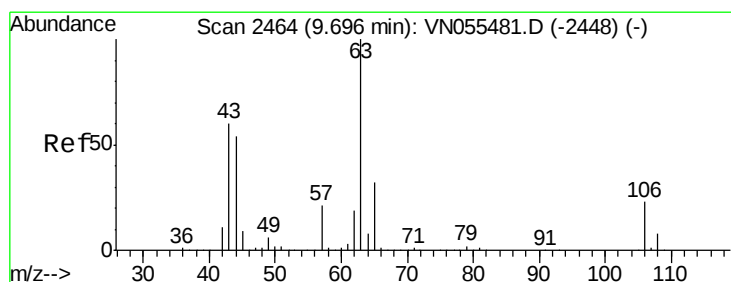
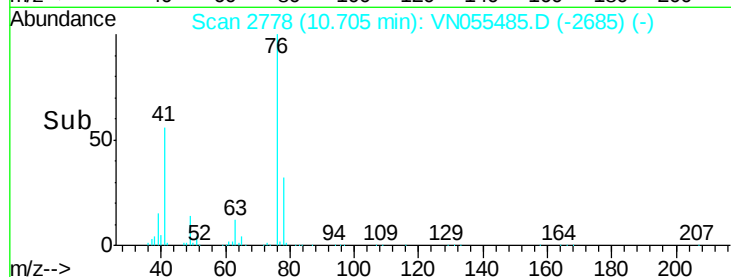
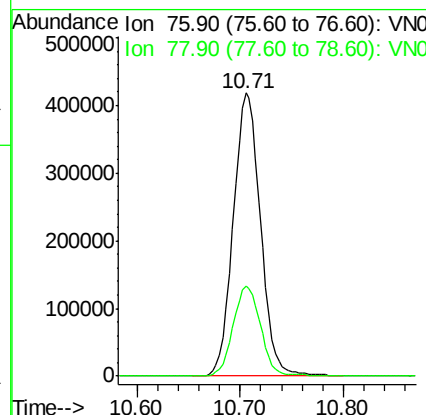
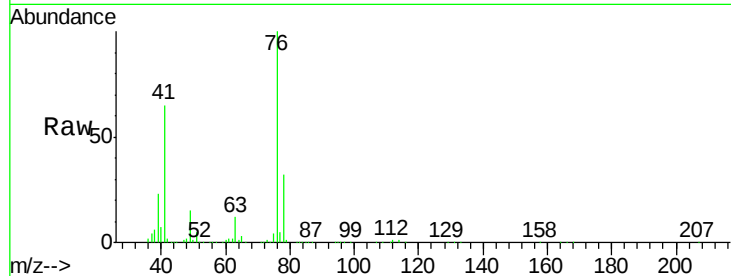
#57
 1,3-Dichloropropane
 Concen: 48.679 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 771677
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.8 38.6

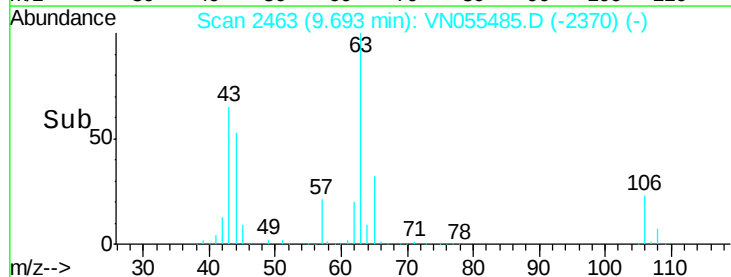
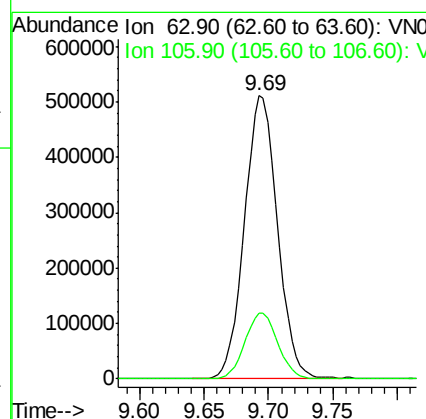
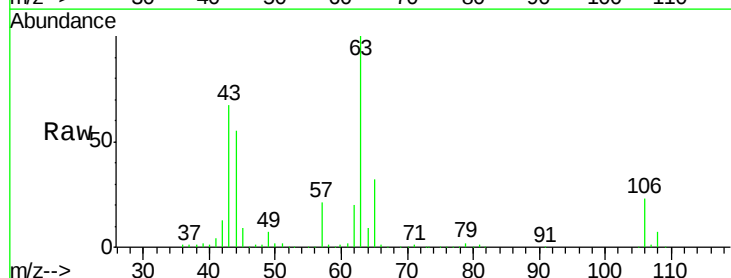
Manual Integrations
 APPROVED

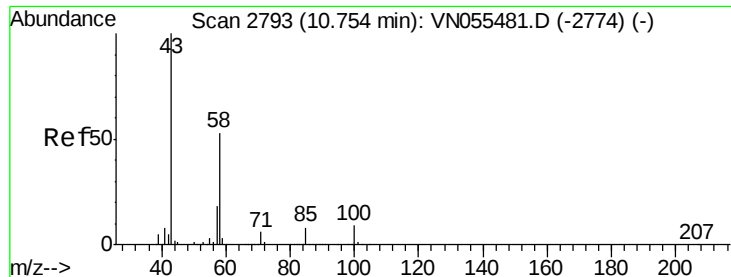
MMDadoda
 5/10/2019 12:39:24 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 206.238 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Tgt Ion: 63 Resp: 911786
 Ion Ratio Lower Upper
 63 100
 106 23.3 18.6 27.8





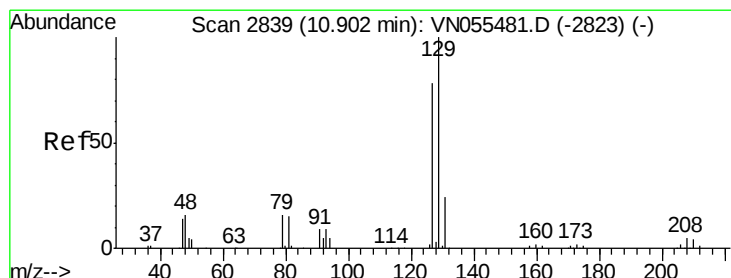
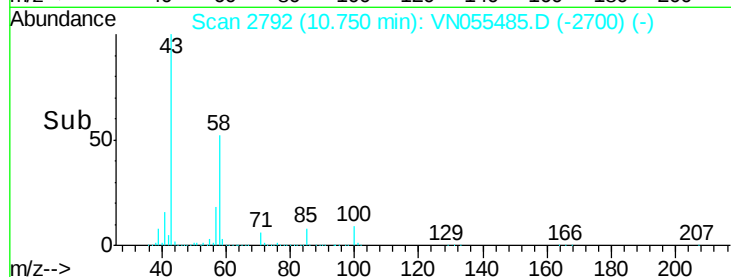
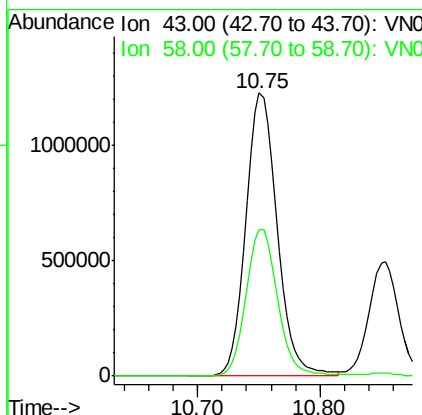
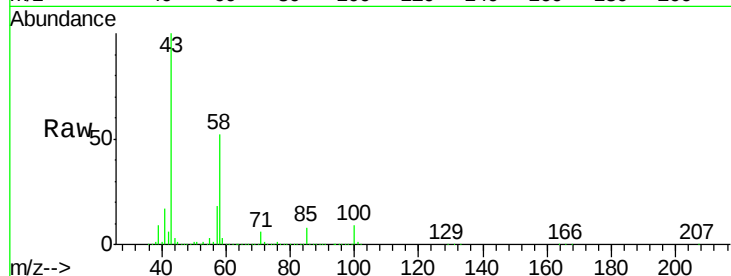
#59
2-Hexanone
Concen: 227.839 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2163138
Ion Ratio Lower Upper
43 100
58 52.4 26.4 79.0

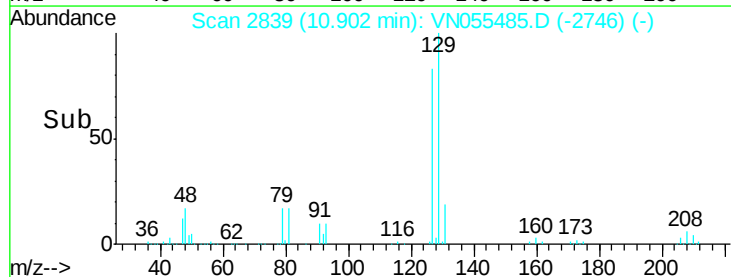
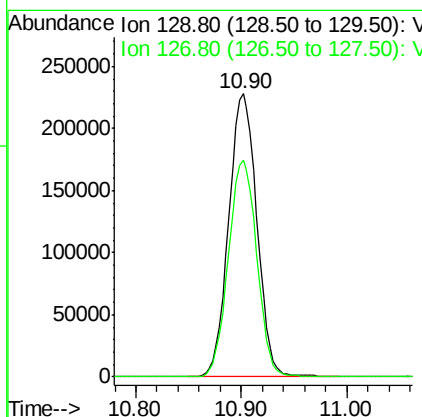
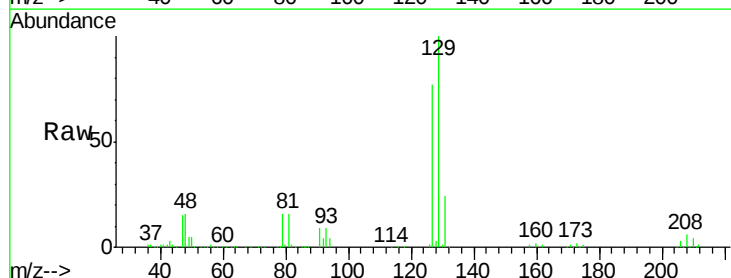
Manual Integrations
APPROVED

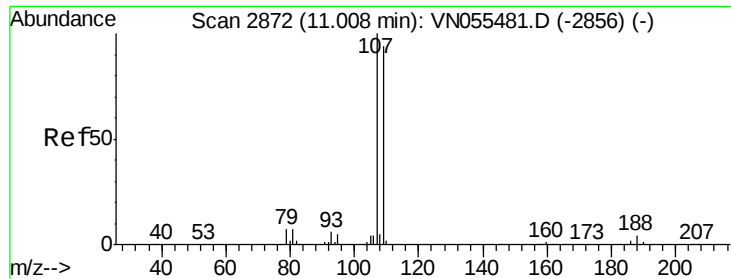
MMDadoda
5/10/2019 12:39:24 PM



#60
Dibromochloromethane
Concen: 51.935 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion: 129 Resp: 421628
Ion Ratio Lower Upper
129 100
127 77.4 38.6 116.0





#61

1,2-Dibromoethane

Concen: 49.487 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 107 Resp: 424562

Ion Ratio Lower Upper

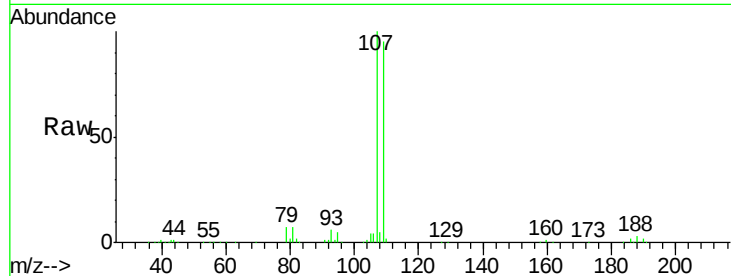
107 100

109 93.8 74.2 111.4

Manual Integrations
APPROVED

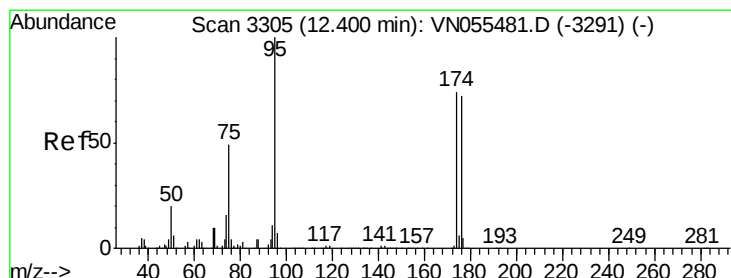
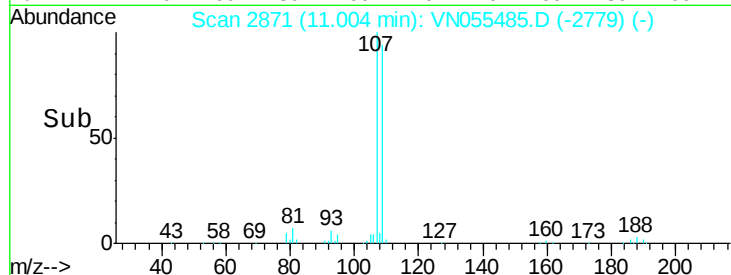
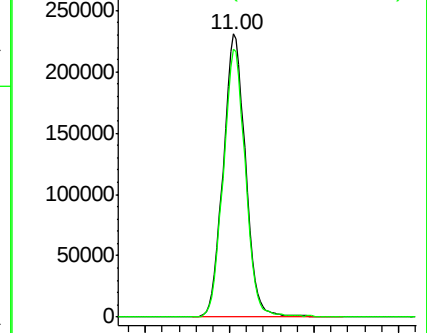
MMDadoda

5/10/2019 12:39:24 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 52.287 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

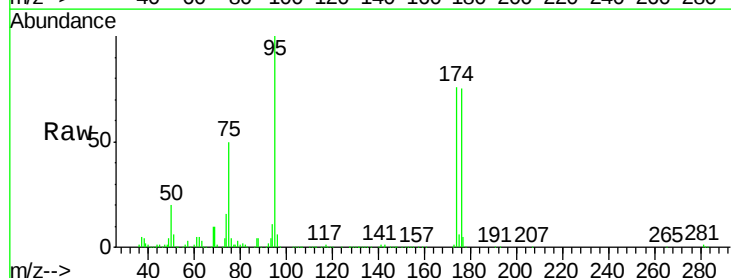
Tgt Ion: 95 Resp: 558765

Ion Ratio Lower Upper

95 100

174 76.2 0.0 152.2

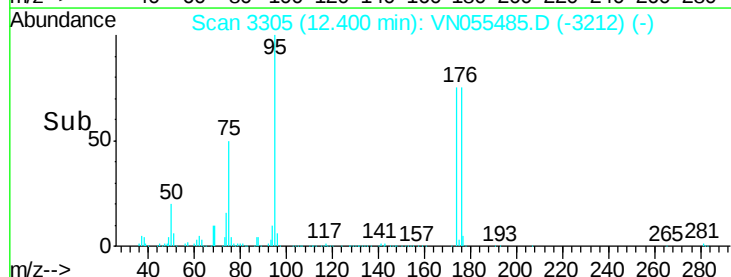
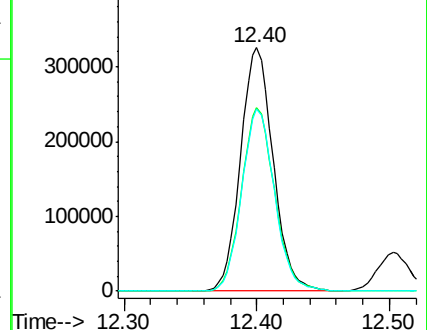
176 75.0 0.0 147.8

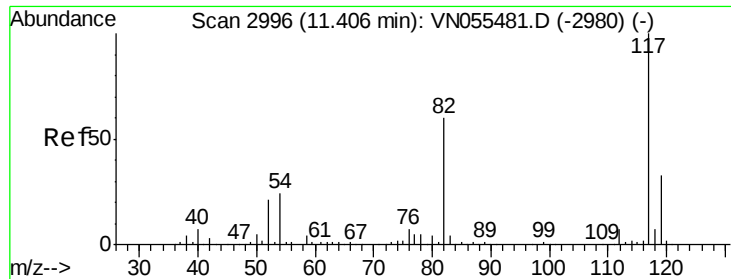


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





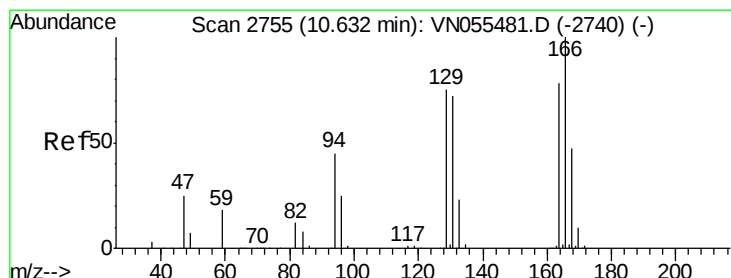
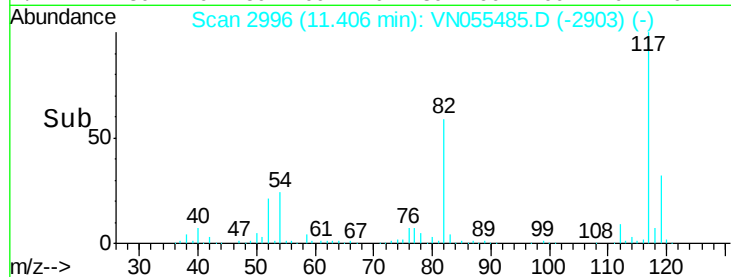
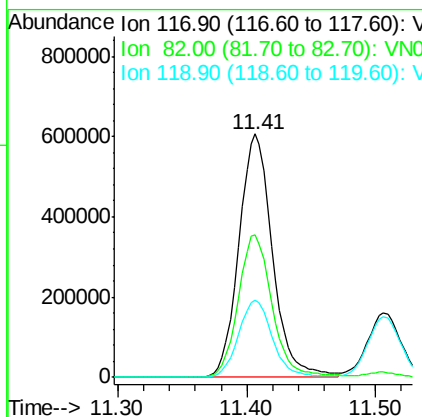
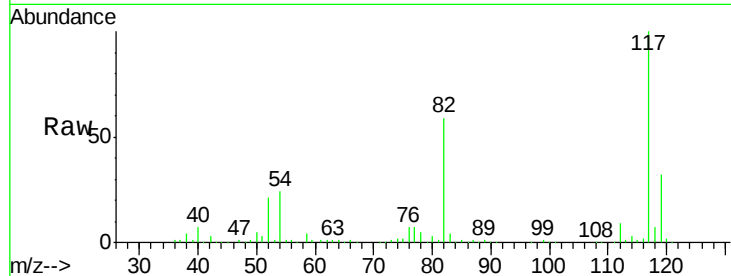
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1101192
Ion Ratio Lower Upper
117 100
82 58.6 48.0 72.0
119 31.7 26.0 39.0

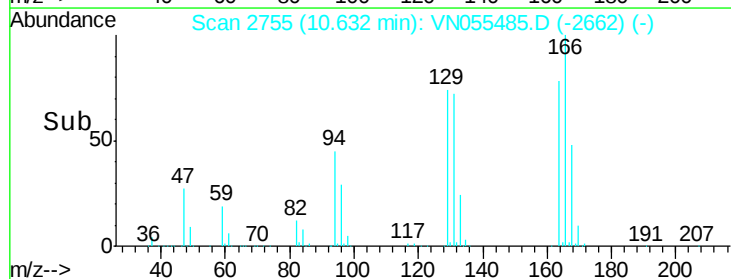
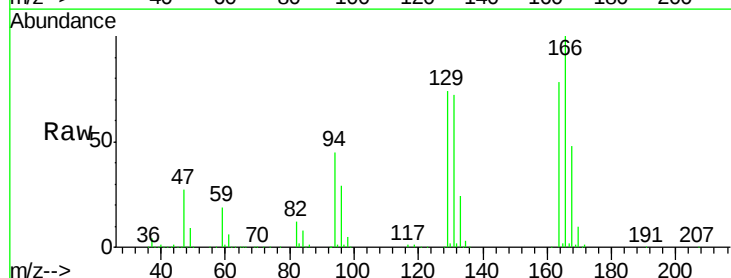
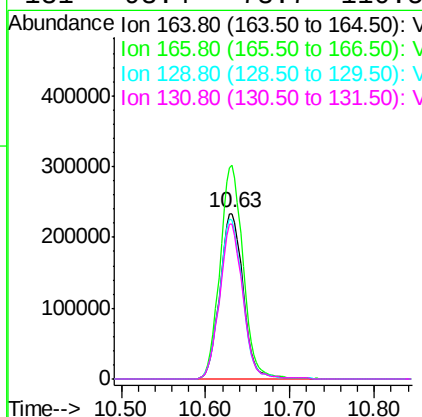
Manual Integrations
APPROVED

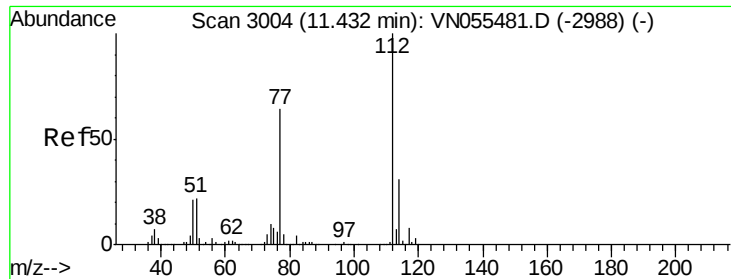
MMDadoda
5/10/2019 12:39:24 PM



#64
Tetrachloroethene
Concen: 49.646 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion:164 Resp: 447962
Ion Ratio Lower Upper
164 100
166 128.8 102.6 153.8
129 95.7 77.0 115.6
131 93.4 73.7 110.5





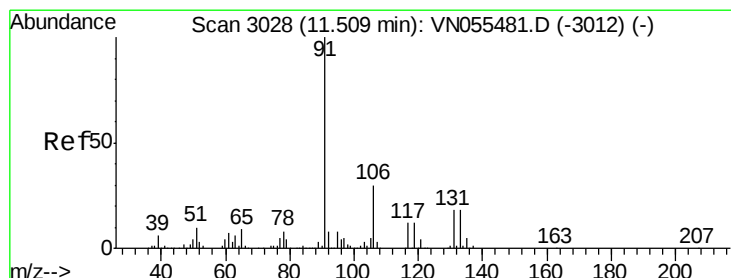
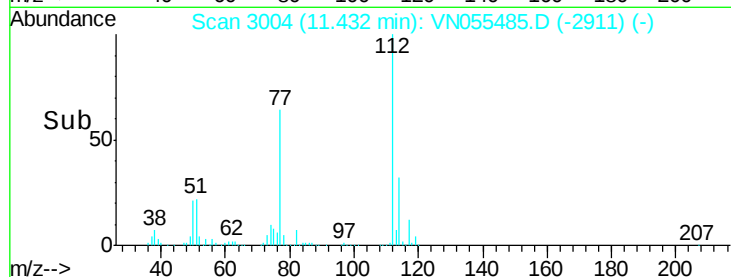
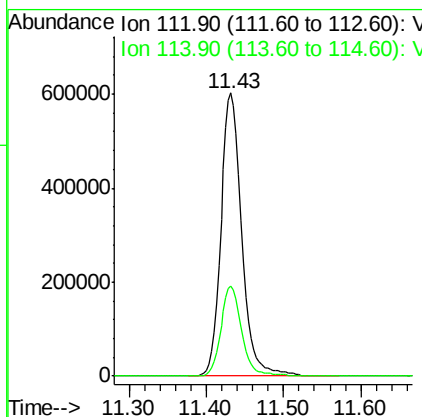
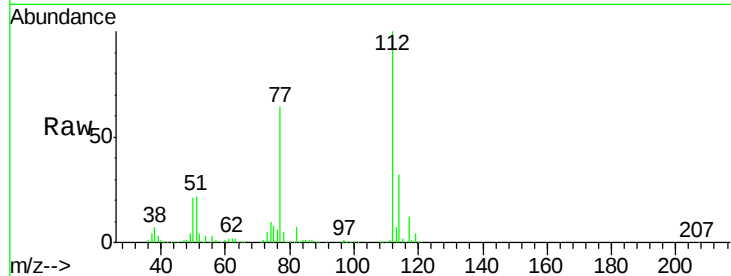
#65
Chlorobenzene
Concen: 49.843 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1129224
Ion Ratio Lower Upper
112 100
114 31.8 25.0 37.4

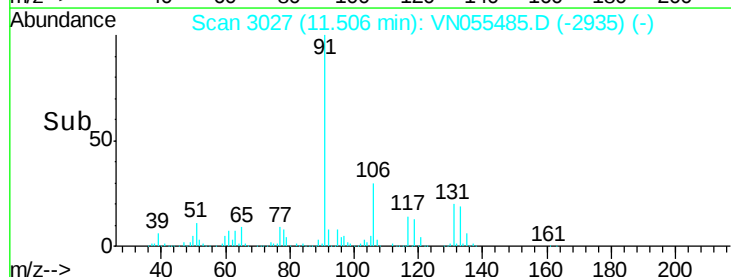
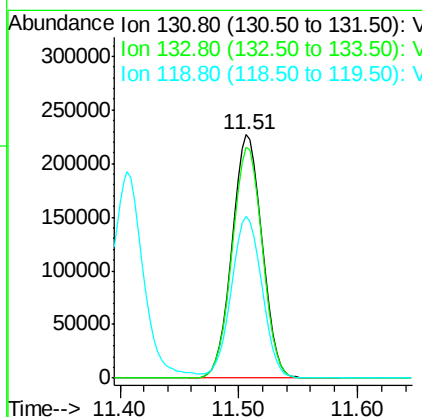
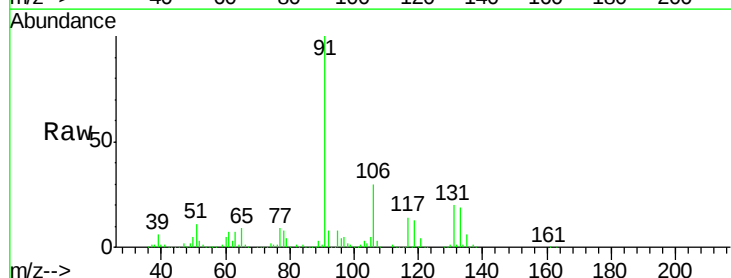
Manual Integrations
APPROVED

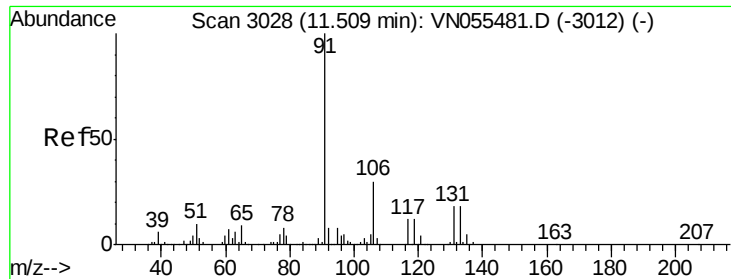
MMDadoda
5/10/2019 12:39:24 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.902 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion:131 Resp: 397013
Ion Ratio Lower Upper
131 100
133 95.6 47.4 142.2
119 68.2 34.1 102.2





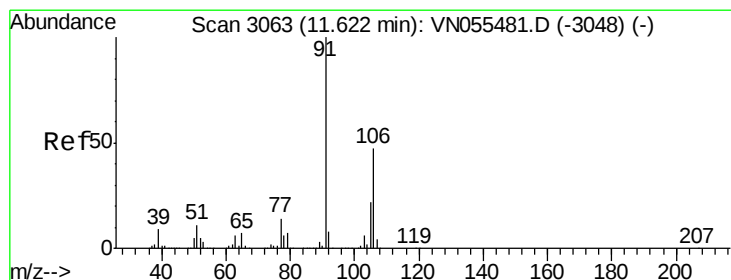
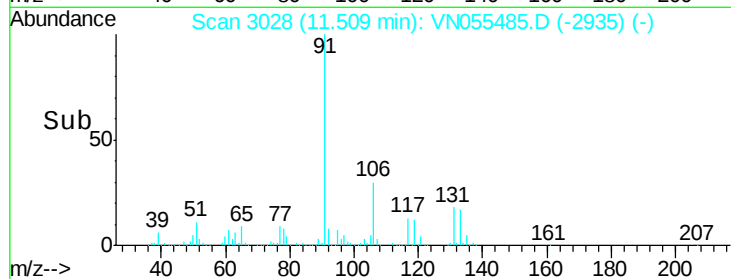
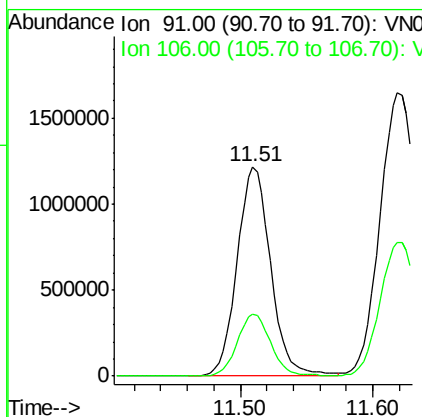
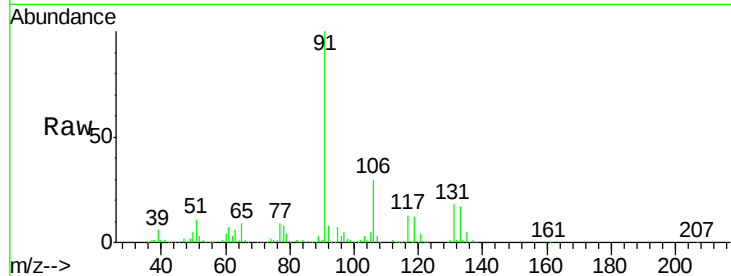
#67
Ethyl Benzene
Concen: 50.262 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2138663
Ion Ratio Lower Upper
91 100
106 29.8 23.8 35.6

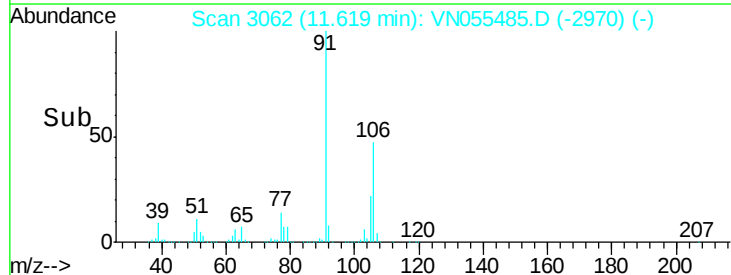
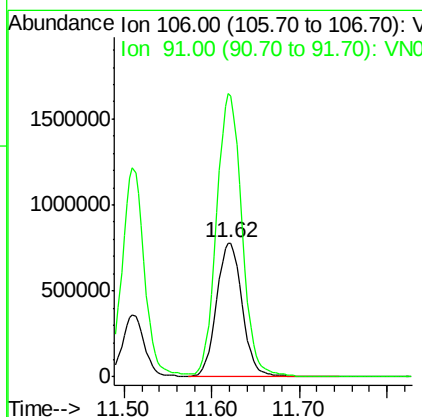
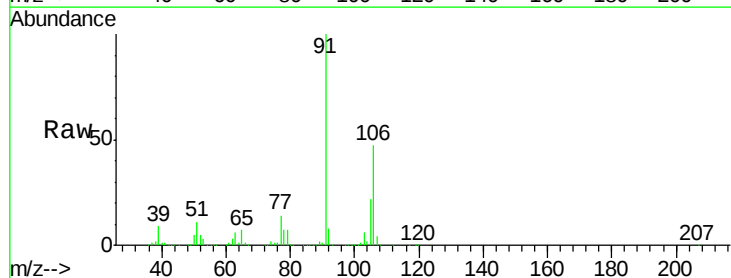
Manual Integrations
APPROVED

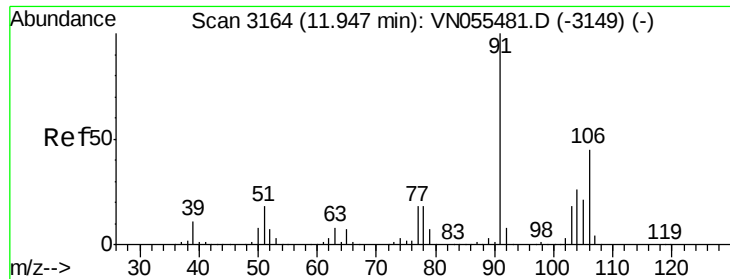
MMDadoda
5/10/2019 12:39:24 PM



#68
m/p-Xylenes
Concen: 103.920 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion: 106 Resp: 1586871
Ion Ratio Lower Upper
106 100
91 209.2 169.2 253.8





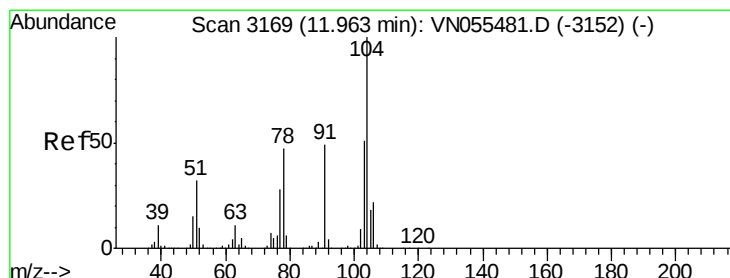
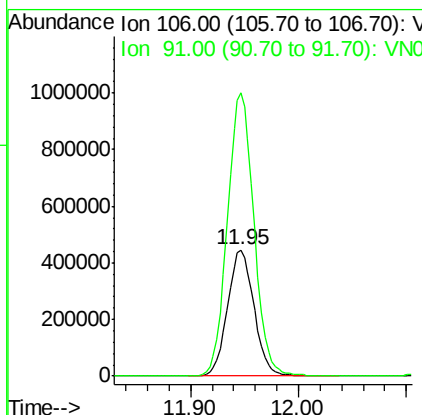
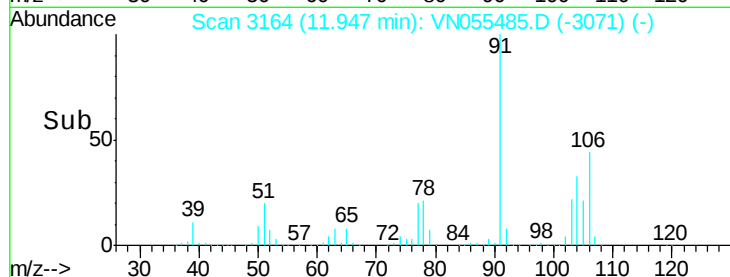
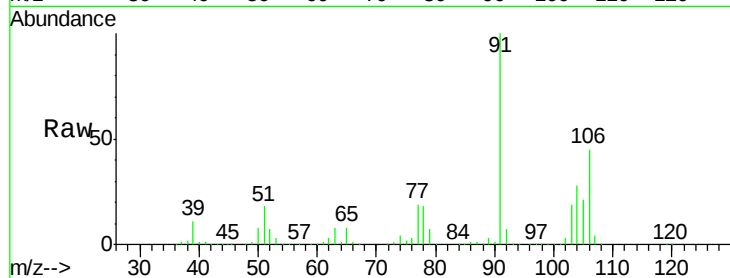
#69
o-Xylene
Concen: 50.907 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 764042
Ion Ratio Lower Upper
106 100
91 224.3 111.3 333.8

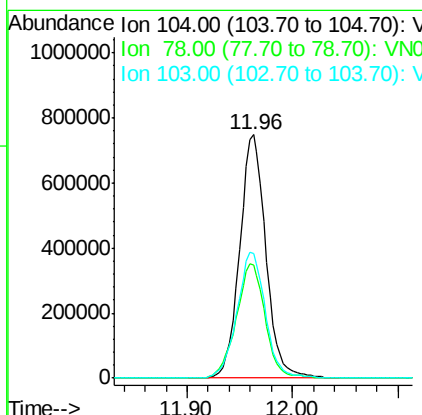
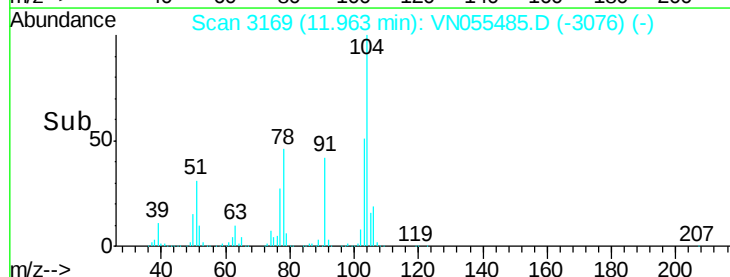
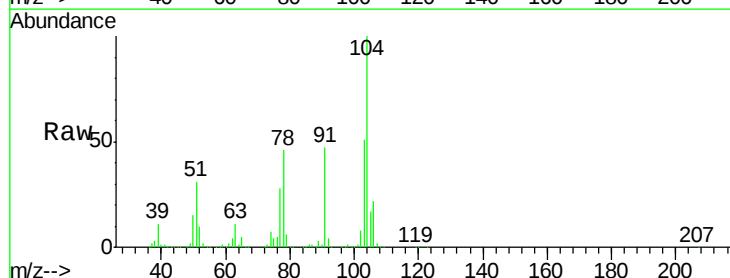
Manual Integrations
APPROVED

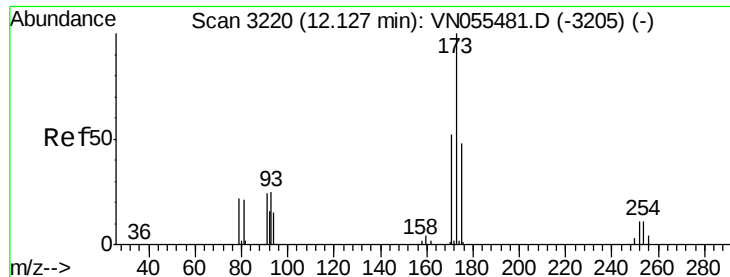
MMDadoda
5/10/2019 12:39:24 PM



#70
Styrene
Concen: 53.560 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion:104 Resp: 1287873
Ion Ratio Lower Upper
104 100
78 51.7 41.6 62.4
103 56.1 44.4 66.6





#71

Bromoform

Concen: 52.673 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

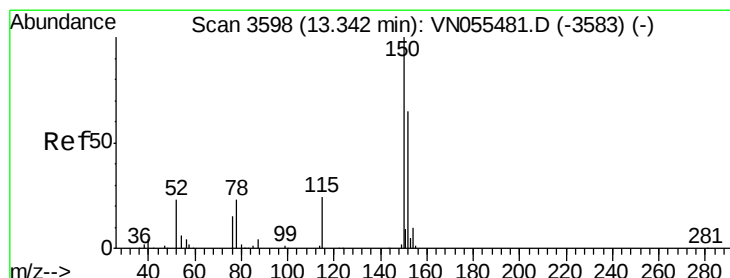
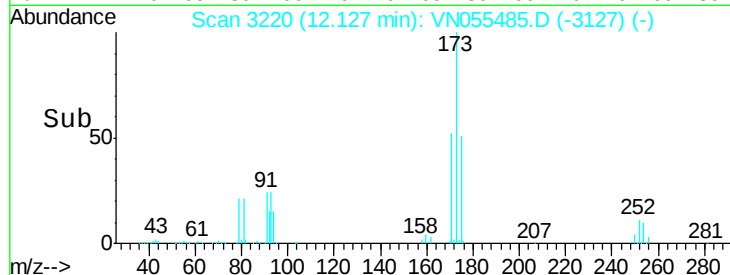
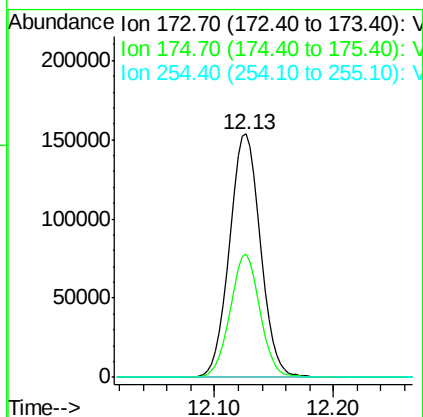
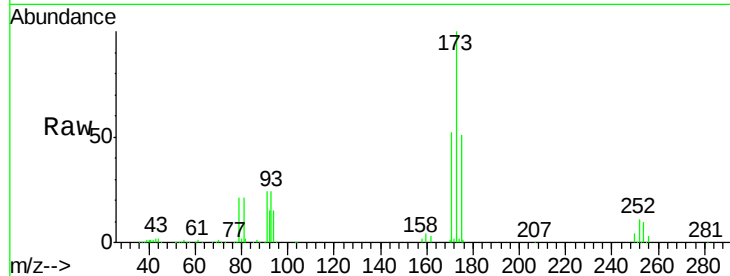
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.1	72.4
254	0.1	0.1	0.1

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

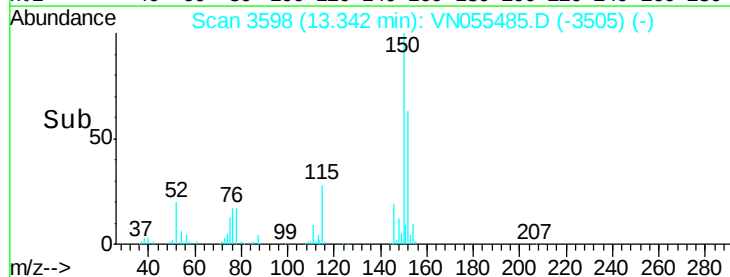
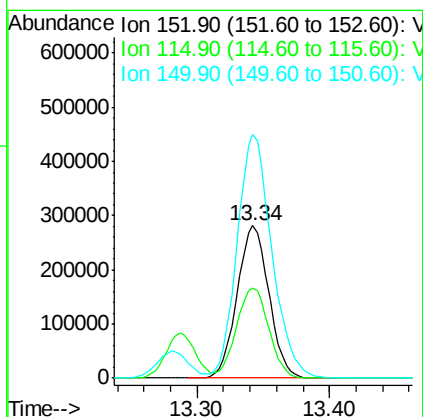
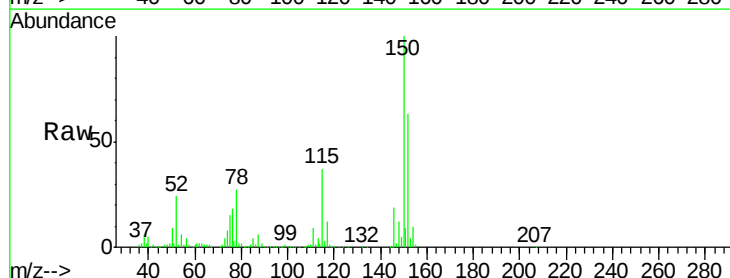
RT: 13.34 min Scan# 3598

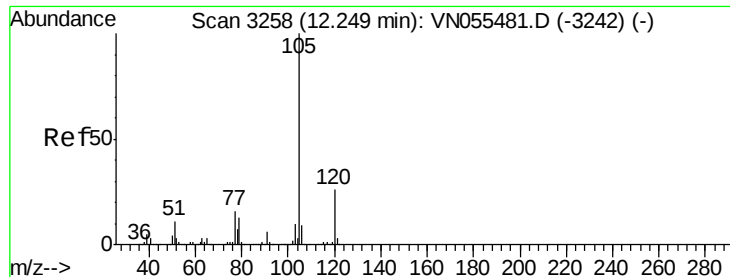
Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.1	90.5
150	174.7	0.0	355.0





#73

Isopropylbenzene

Concen: 53.038 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2038080

Ion Ratio Lower Upper

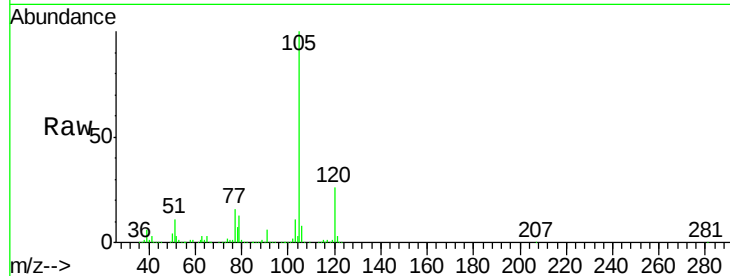
105 100

120 25.6 13.0 39.0

Manual Integrations
APPROVED

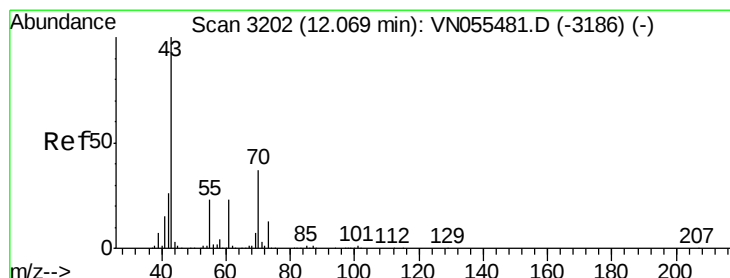
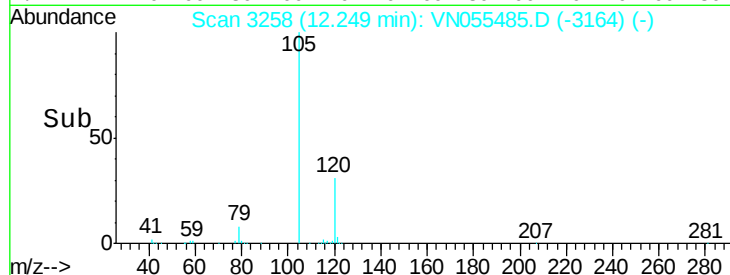
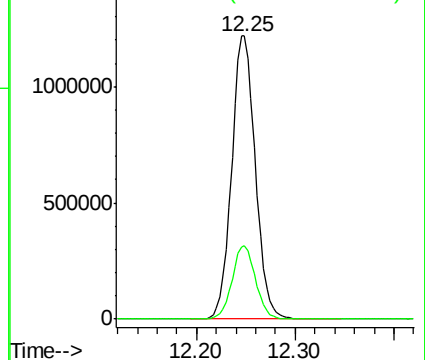
MMDadoda

5/10/2019 12:39:24 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 44.663 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion: 43 Resp: 792499

Ion Ratio Lower Upper

43 100

70 38.4 30.7 46.1

55 24.3 19.3 28.9

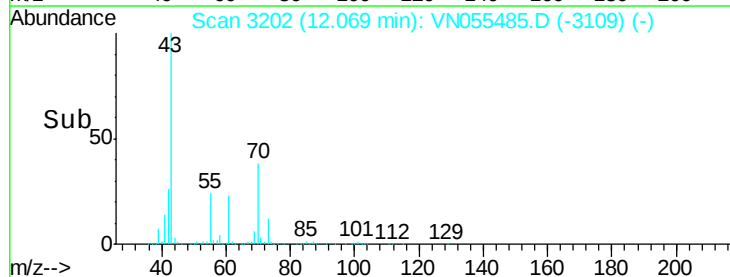
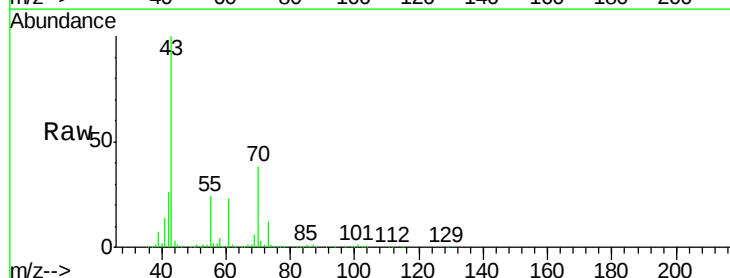
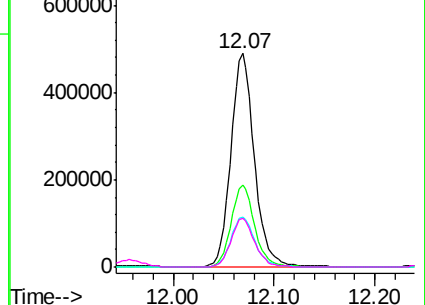
61 23.1 18.6 27.8

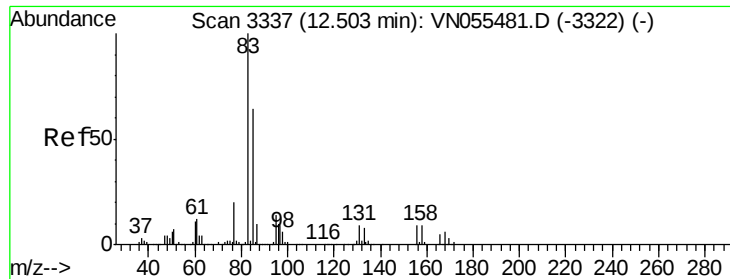
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 47.925 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 601778
Ion Ratio Lower Upper

83 100

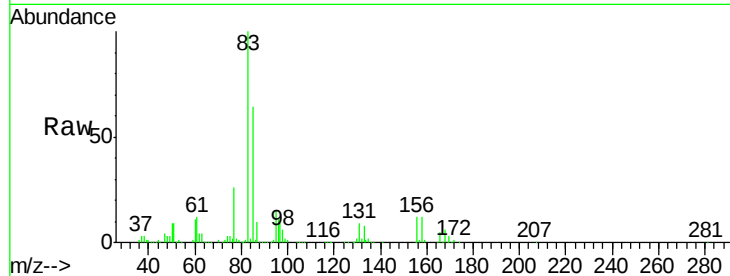
131 9.0 4.5 13.5

85 63.8 32.0 96.0

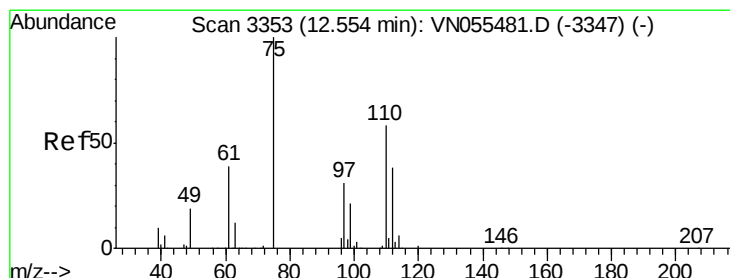
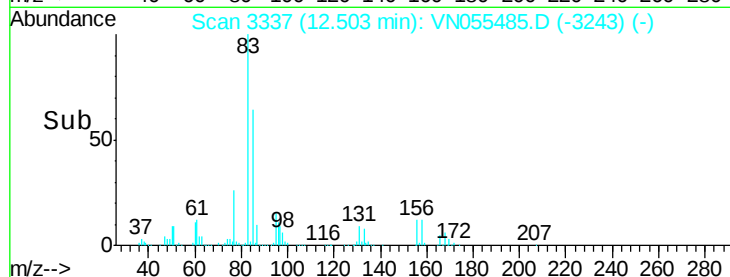
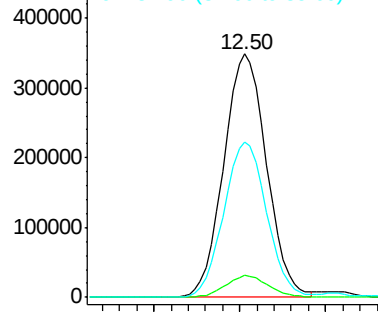
Manual Integrations
APPROVED

MMDadoda

5/10/2019 12:39:24 PM



Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 130.80 (130.50 to 131.50): VNC
Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 43.106 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

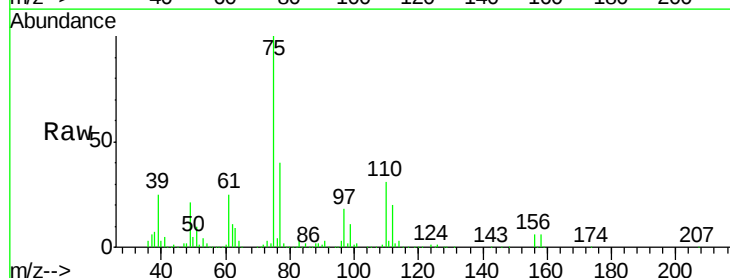
Lab File: VN055485.D

Acq: 9 May 2019 10:03

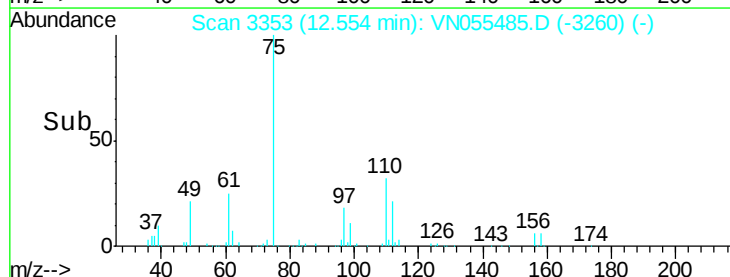
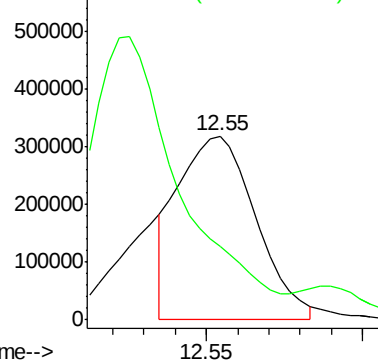
Tgt Ion: 75 Resp: 548452
Ion Ratio Lower Upper

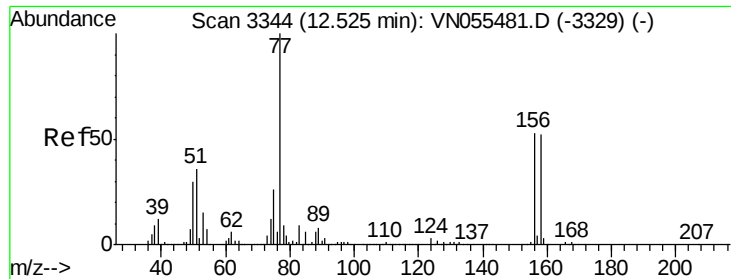
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNC
Ion 77.00 (76.70 to 77.70): VNC





#77

Bromobenzene

Concen: 44.994 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

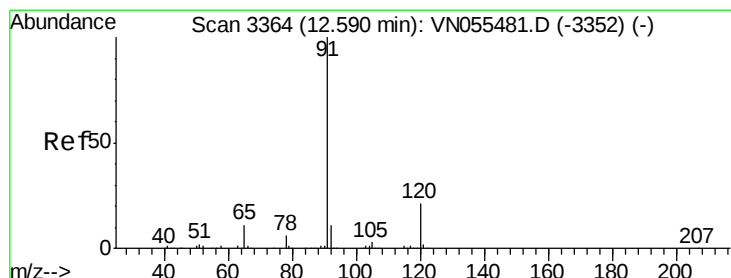
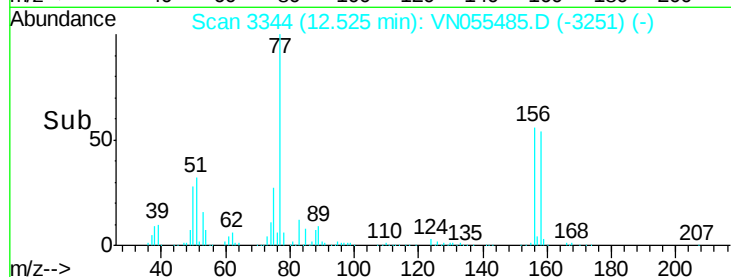
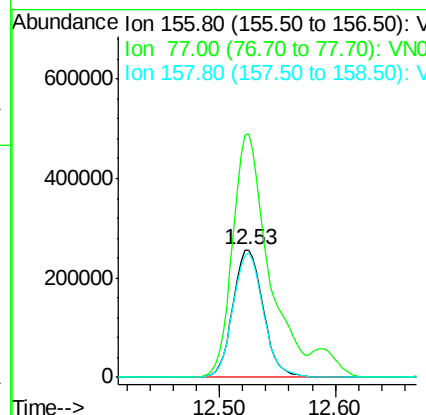
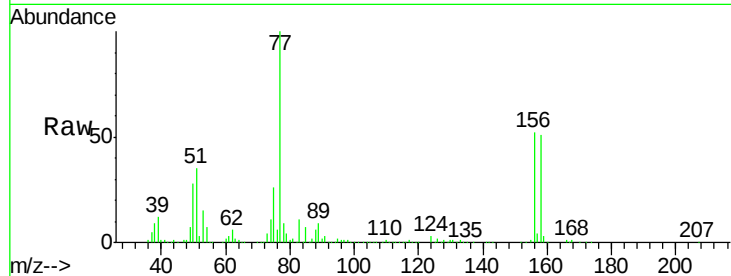
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	225.7	115.4	346.2		
158	97.3	48.7	146.1		

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#78

n-propylbenzene

Concen: 47.653 ug/l

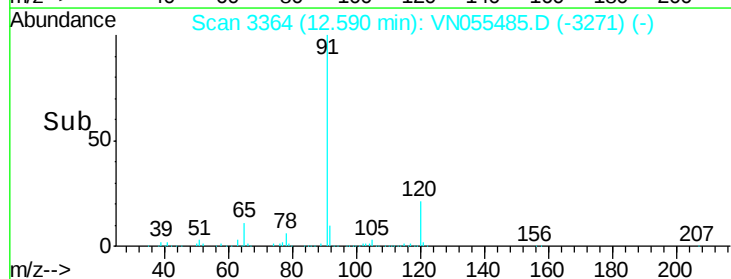
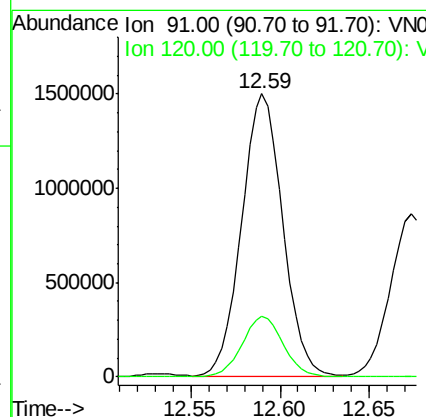
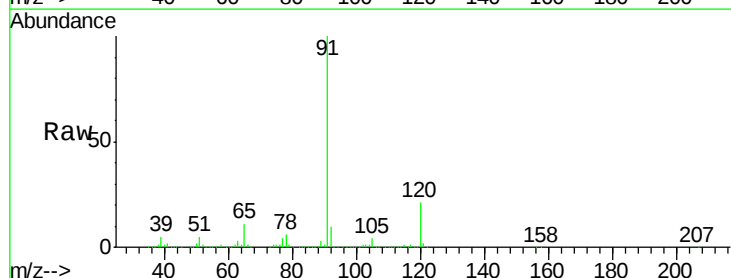
RT: 12.59 min Scan# 3364

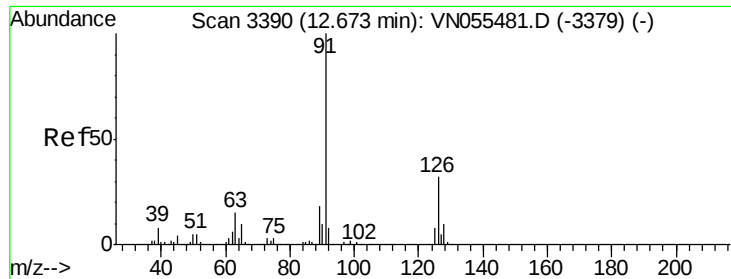
Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	21.7	10.8	32.3		





#79

2-Chlorotoluene

Concen: 45.617 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 1425097

Ion Ratio Lower Upper

91 100

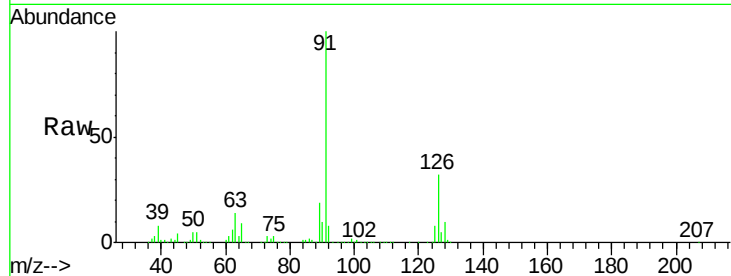
126 31.9 16.0 47.9

Manual Integrations

APPROVED

MMDadoda

5/10/2019 12:39:24 PM



Abundance Ion 91.00 (90.70 to 91.70): VN055481.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN055481.D (-3379) (-)

1000000

800000

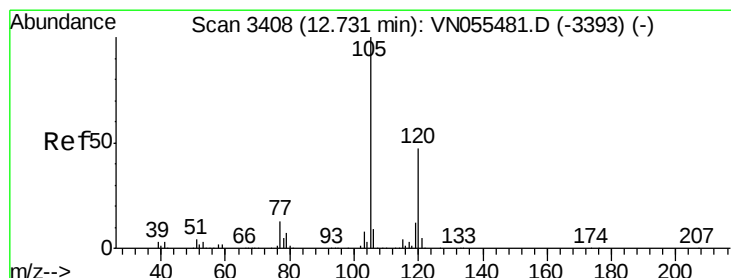
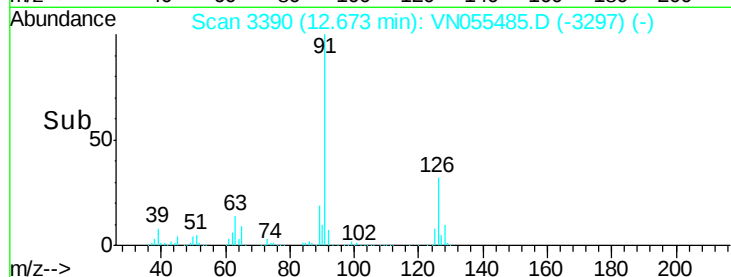
600000

400000

200000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 47.096 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN055485.D

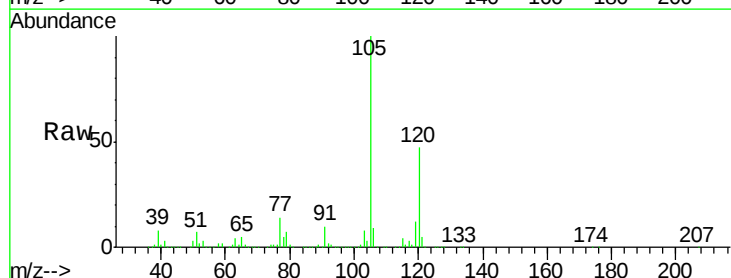
Acq: 9 May 2019 10:03

Tgt Ion:105 Resp: 1760335

Ion Ratio Lower Upper

105 100

120 47.0 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN055481.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN055481.D (-3393) (-)

1200000

1000000

800000

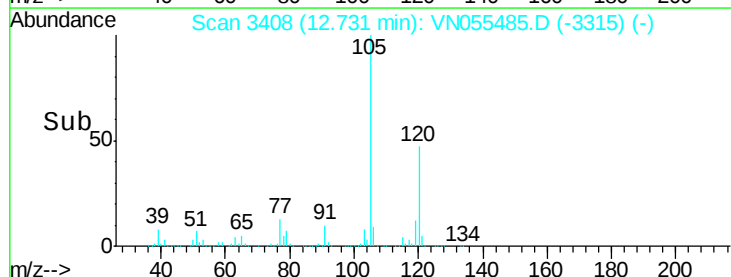
600000

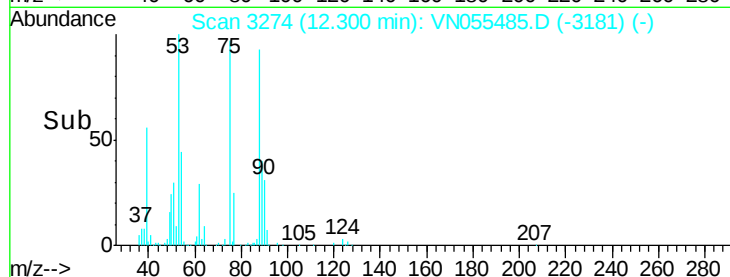
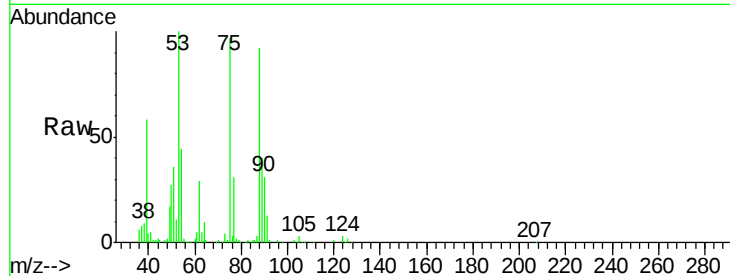
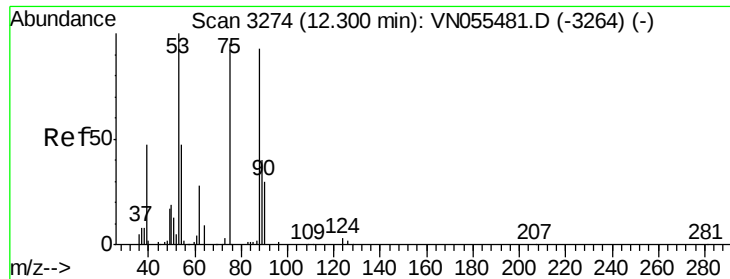
400000

200000

0

Time--> 12.70 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 46.302 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 159658

Ion Ratio Lower Upper

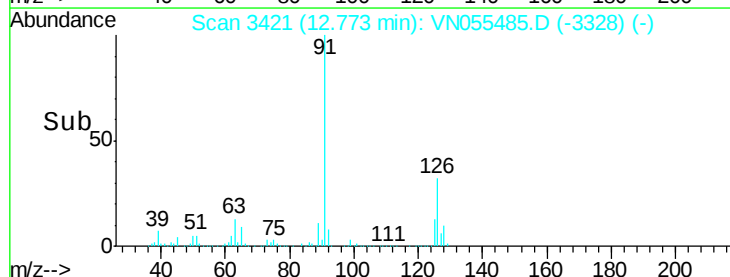
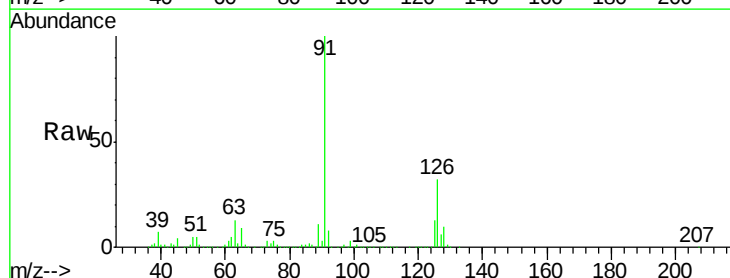
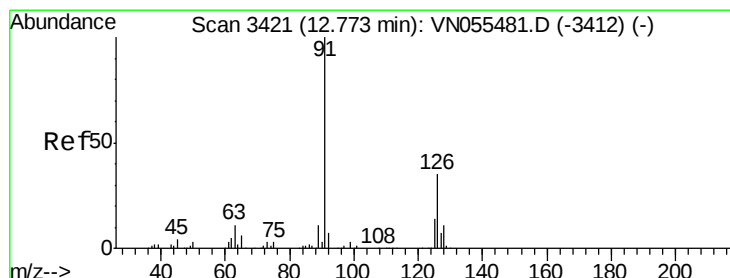
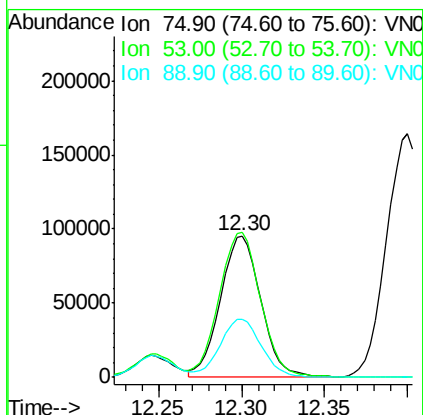
75 100

53 106.1 86.5 129.7

89 42.6 35.7 53.5

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#82

4-Chlorotoluene

Concen: 47.656 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN055485.D

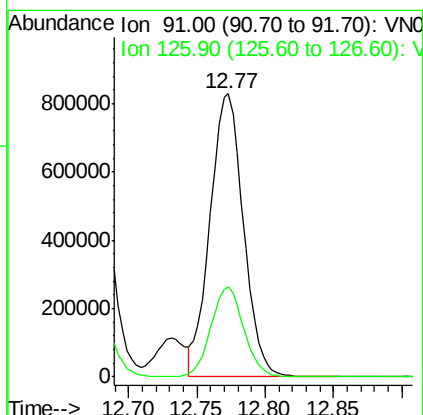
Acq: 9 May 2019 10:03

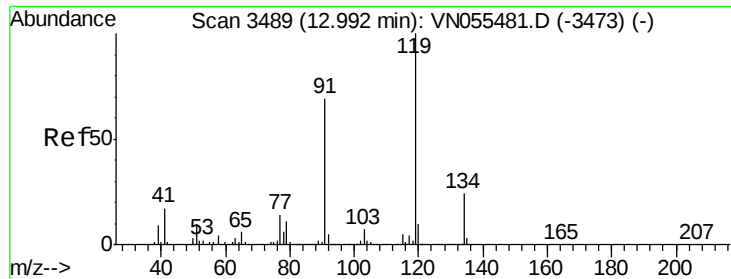
Tgt Ion: 91 Resp: 1406757

Ion Ratio Lower Upper

91 100

126 31.5 15.7 47.0





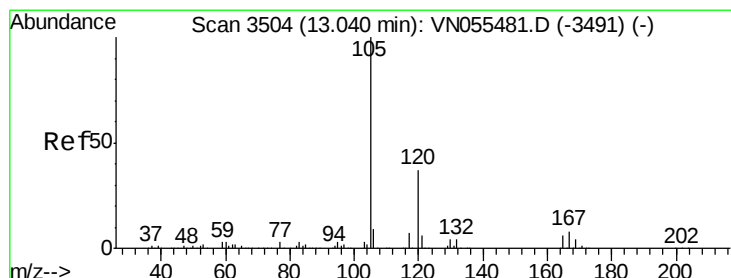
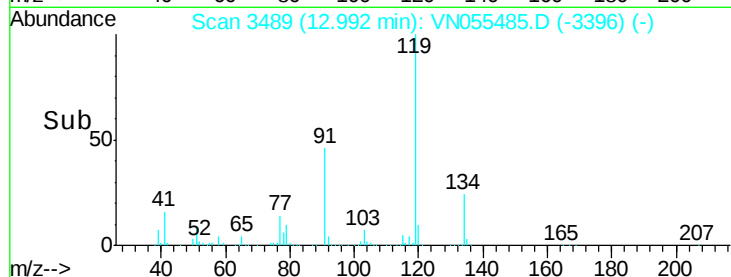
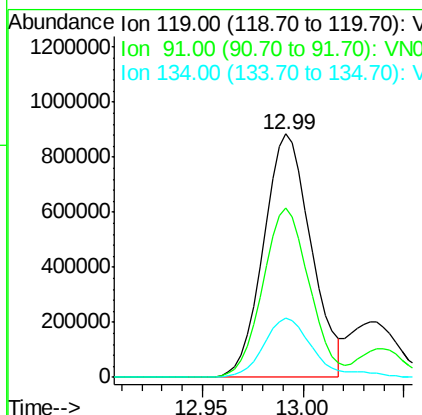
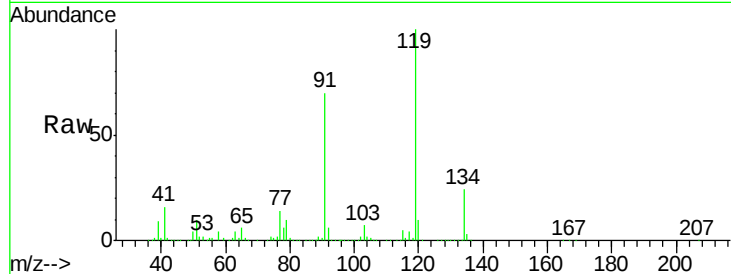
#83
 tert-Butylbenzene
 Concen: 45.150 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 1446536
 Ion Ratio Lower Upper
 119 100
 91 68.3 33.8 101.3
 134 25.7 12.5 37.5

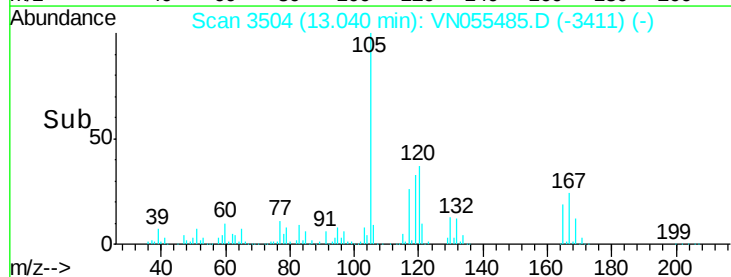
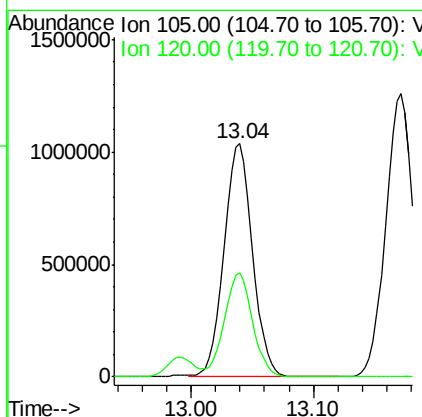
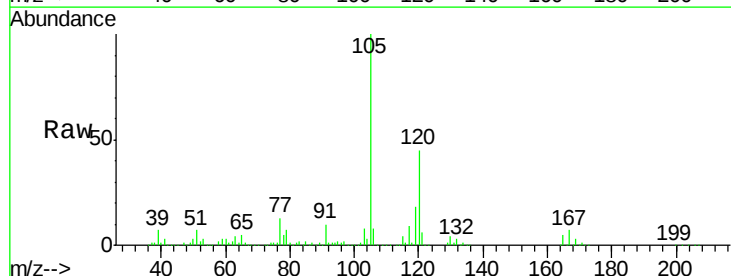
Manual Integrations
 APPROVED

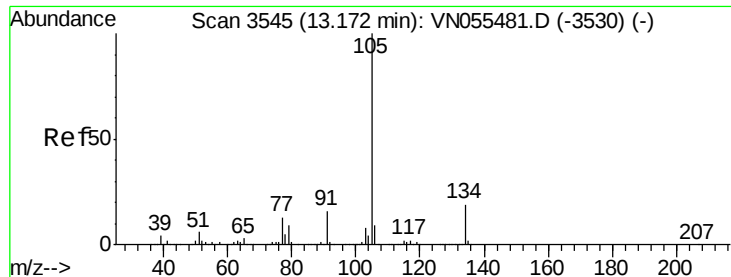
MMDadoda
 5/10/2019 12:39:24 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 49.497 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN055485.D
 Acq: 9 May 2019 10:03

Tgt Ion:105 Resp: 1696758
 Ion Ratio Lower Upper
 105 100
 120 44.0 22.1 66.5





#85

sec-Butylbenzene

Concen: 47.082 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:105 Resp: 2004706

Ion Ratio Lower Upper

105 100

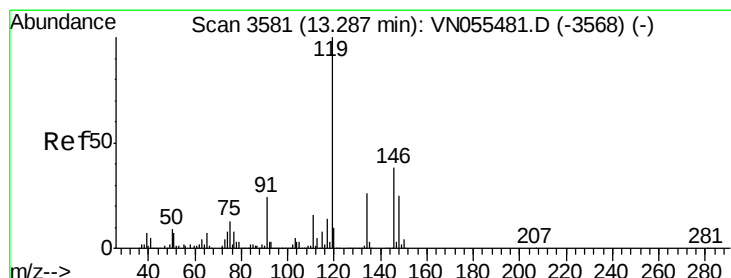
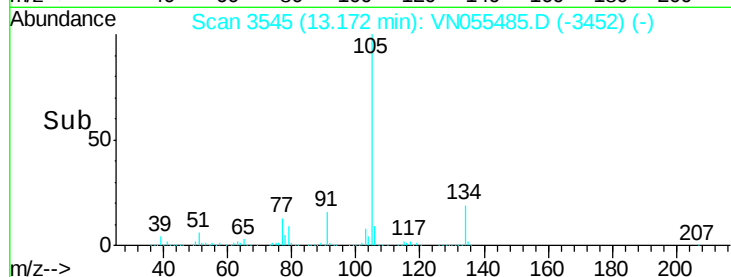
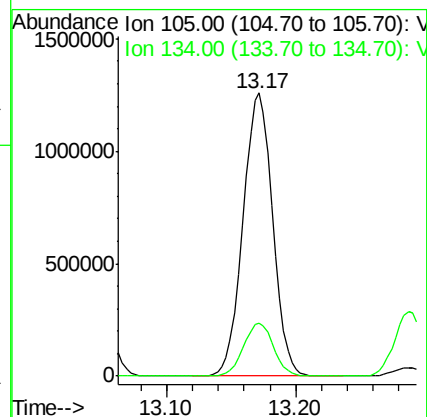
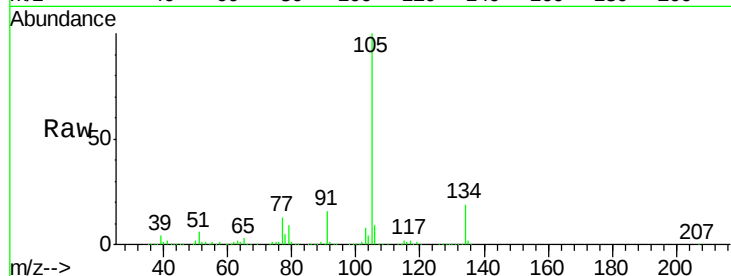
134 19.0 9.3 28.0

Manual Integrations

APPROVED

MMDadoda

5/10/2019 12:39:24 PM



#86

p-Isopropyltoluene

Concen: 49.697 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

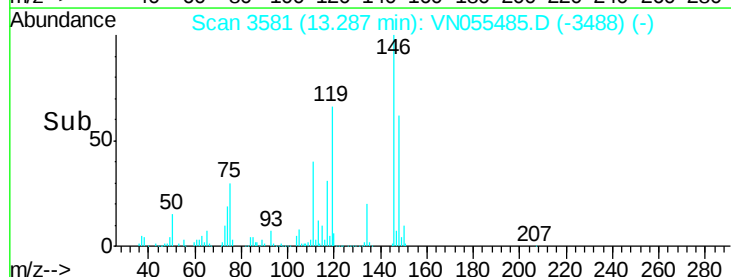
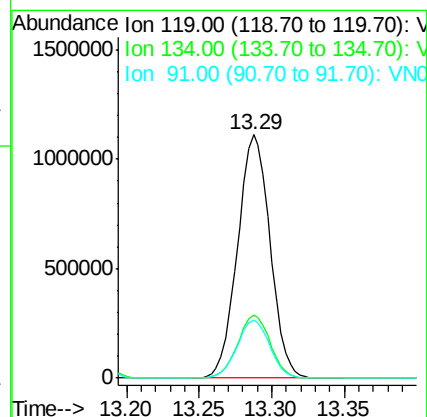
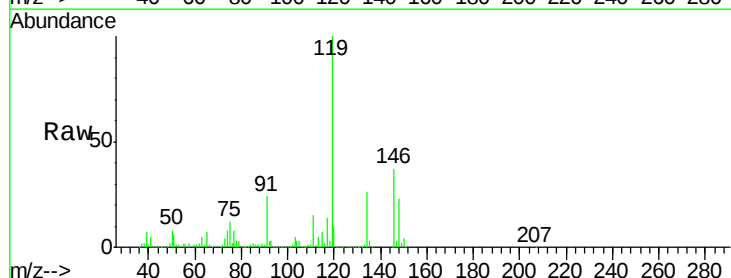
Tgt Ion:119 Resp: 1722141

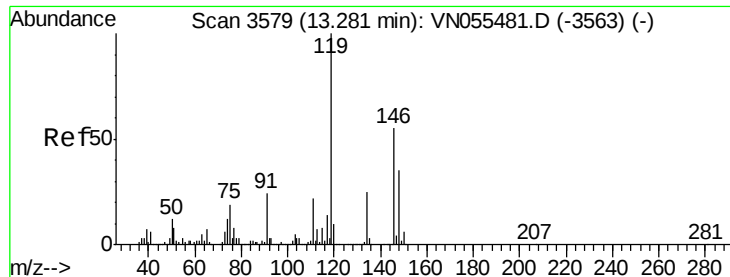
Ion Ratio Lower Upper

119 100

134 25.9 12.8 38.4

91 23.9 12.0 36.0





#87

1,3-Dichlorobenzene

Concen: 50.552 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

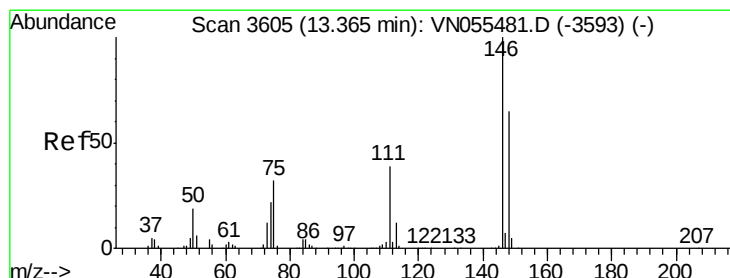
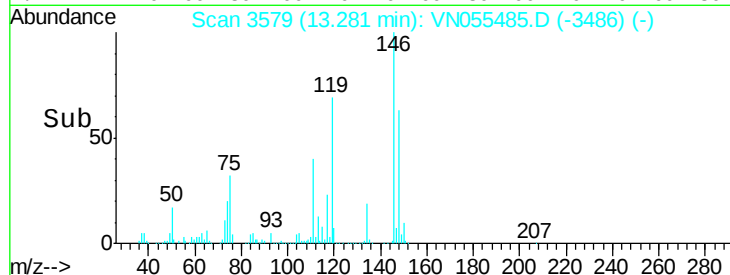
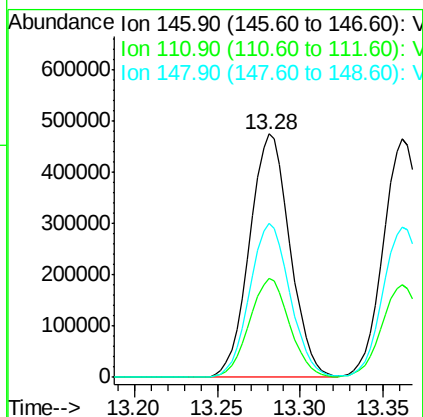
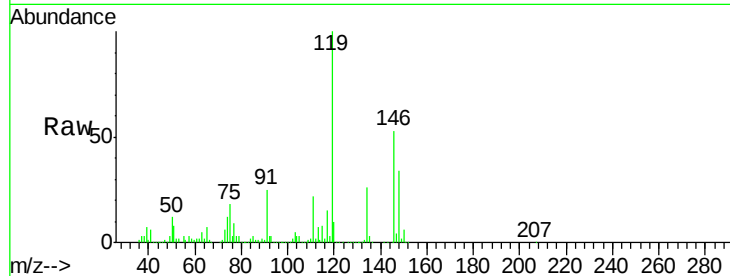
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	804558
Ion Ratio	Lower	Upper	
146	100		
111	40.3	20.4	61.3
148	63.3	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#88

1,4-Dichlorobenzene

Concen: 49.665 ug/l

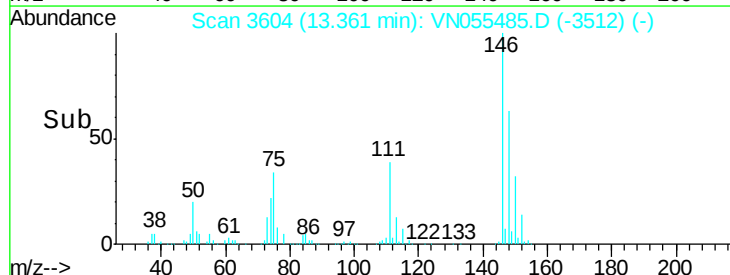
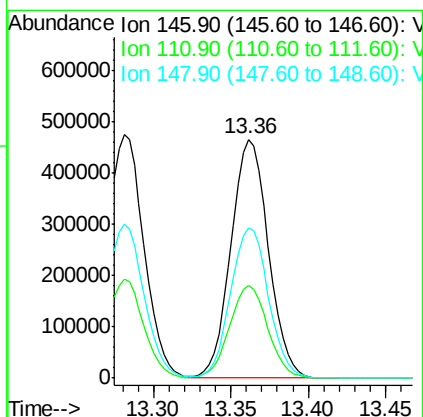
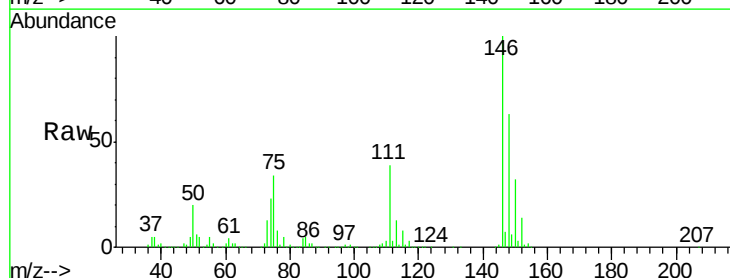
RT: 13.36 min Scan# 3604

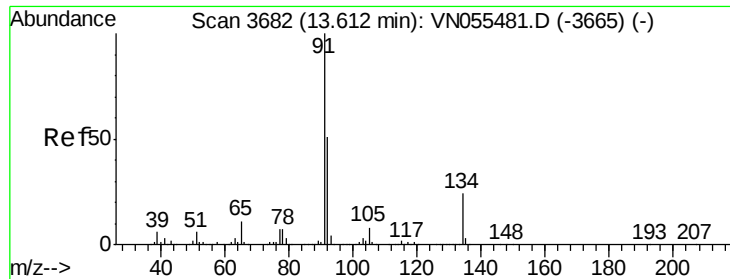
Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion:	146	Resp:	780089
Ion Ratio	Lower	Upper	
146	100		
111	39.4	19.6	58.8
148	64.1	32.5	97.4





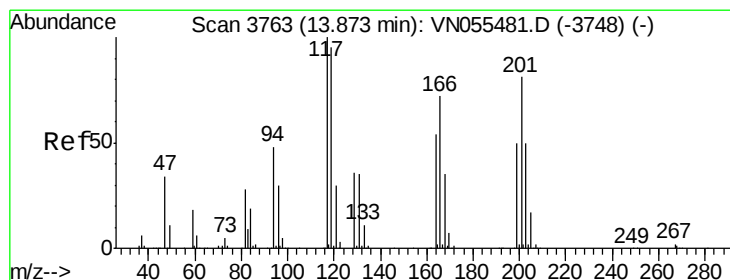
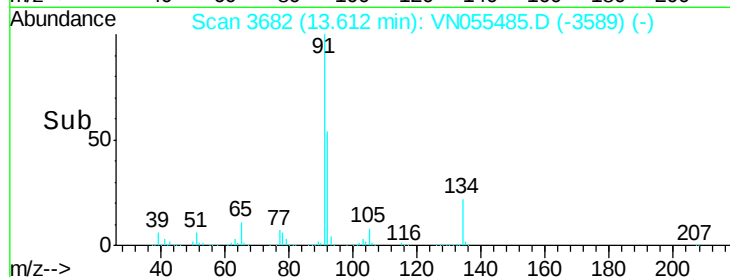
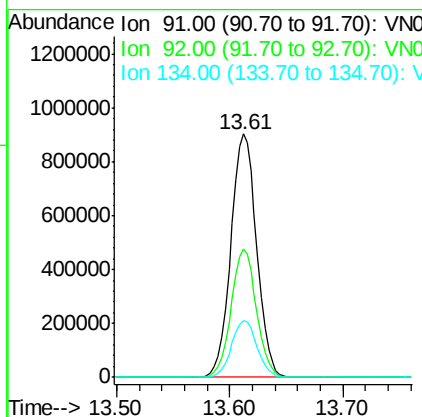
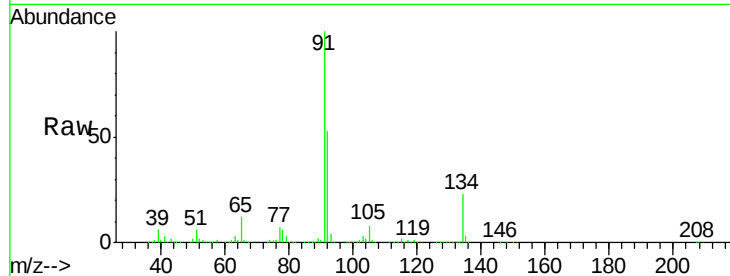
#89
n-Butylbenzene
Concen: 53.002 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1423660
Ion Ratio Lower Upper
91 100
92 51.8 25.9 77.7
134 23.4 11.8 35.4

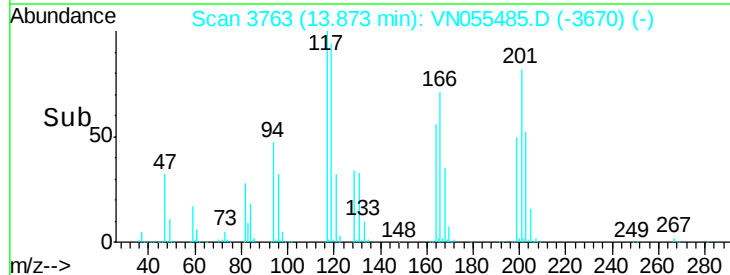
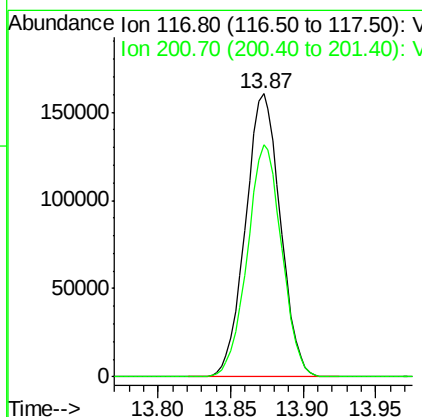
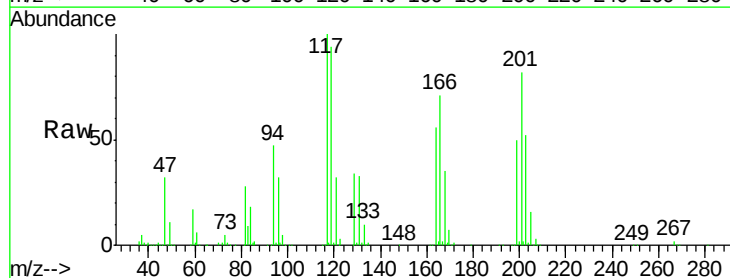
Manual Integrations
APPROVED

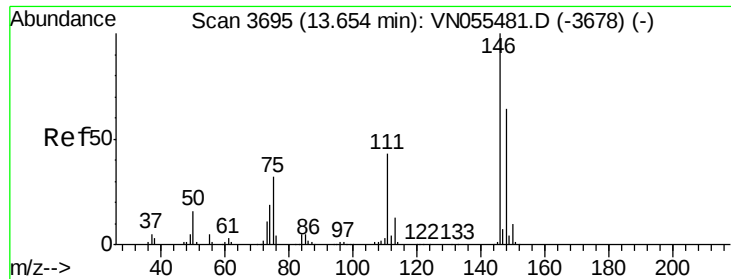
MMDadoda
5/10/2019 12:39:24 PM



#90
Hexachloroethane
Concen: 47.601 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion: 117 Resp: 269078
Ion Ratio Lower Upper
117 100
201 80.8 40.1 120.2





#91

1,2-Dichlorobenzene

Concen: 49.095 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

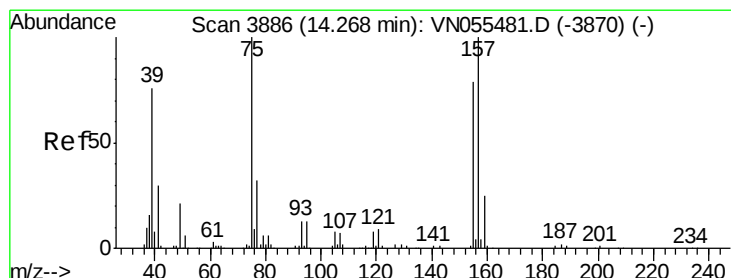
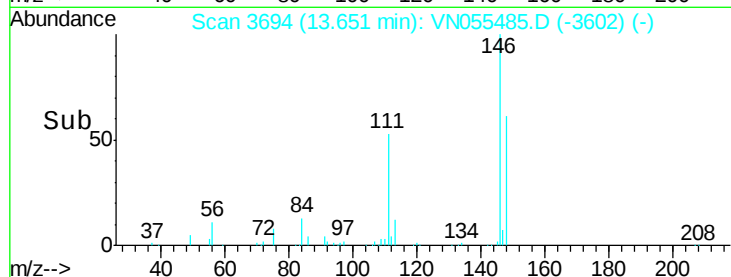
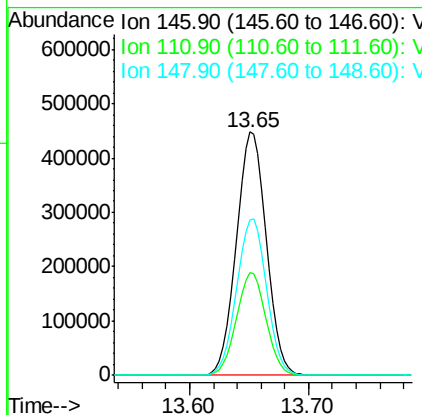
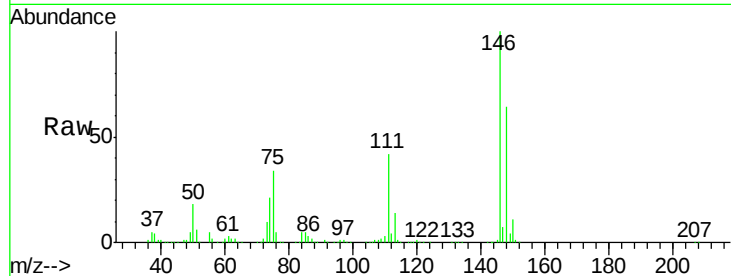
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	780933
Ion Ratio	Lower	Upper	
146	100		
111	41.5	21.3	63.7
148	64.2	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 45.343 ug/l

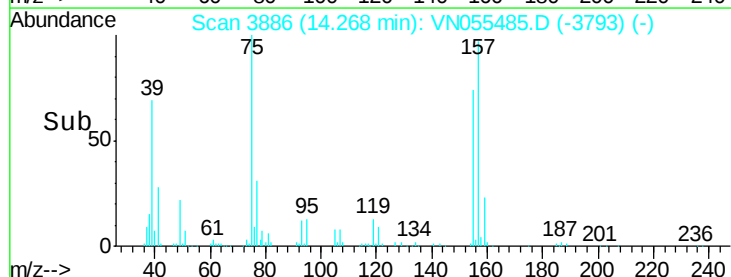
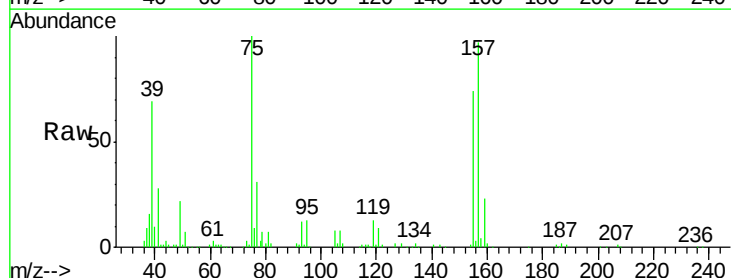
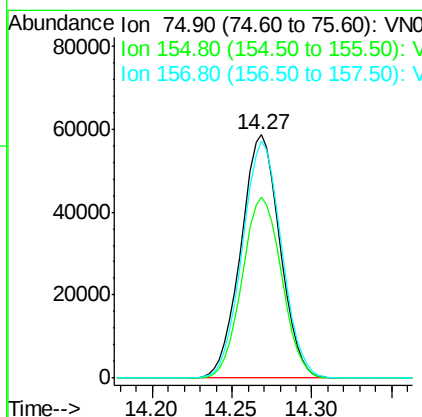
RT: 14.27 min Scan# 3886

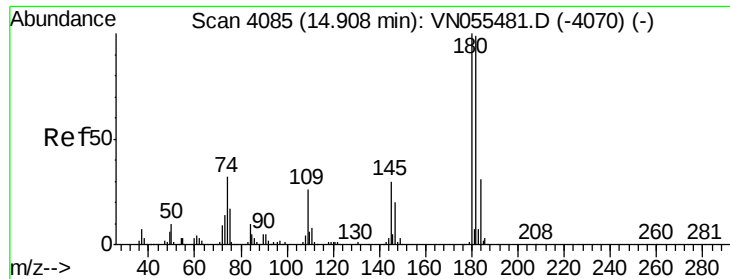
Delta R.T. -0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion:	75	Resp:	97449
Ion Ratio	Lower	Upper	
75	100		
155	75.1	39.3	117.8
157	97.9	50.6	151.8





#93

1,2,4-Trichlorobenzene

Concen: 46.276 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Instrument :

MSVOA_N

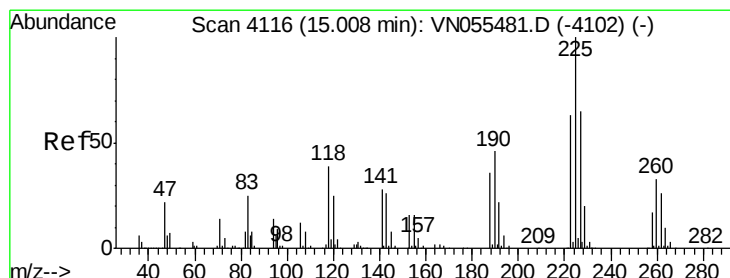
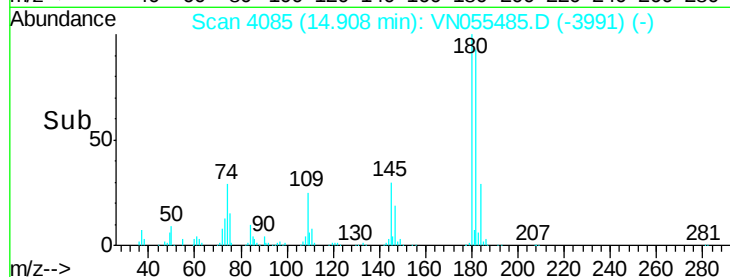
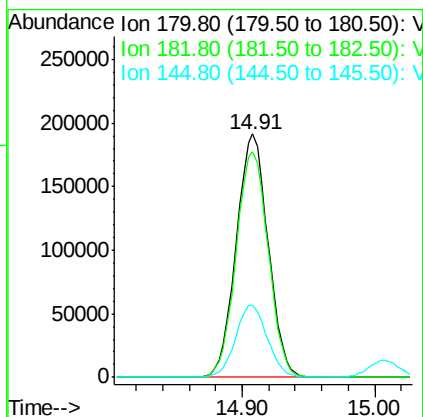
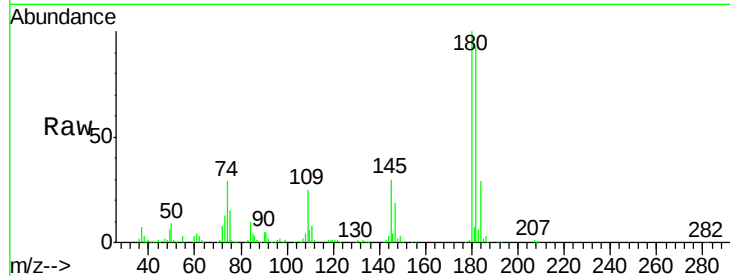
ClientSampleId :

VSTDCCC050

Tot Ion:	180	Resp:	318736
Ion Ratio	Lower	Upper	
180	100		
182	93.8	48.7	146.1
145	29.6	15.3	45.9

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#94

Hexachlorobutadiene

Concen: 56.254 ug/l

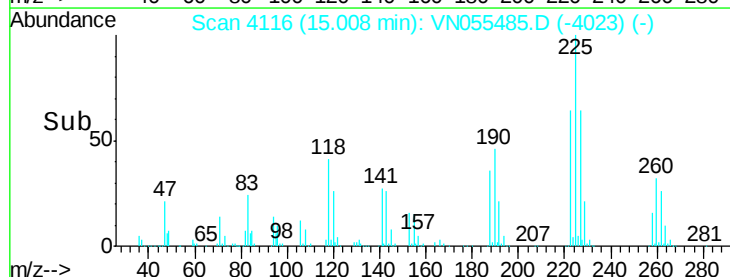
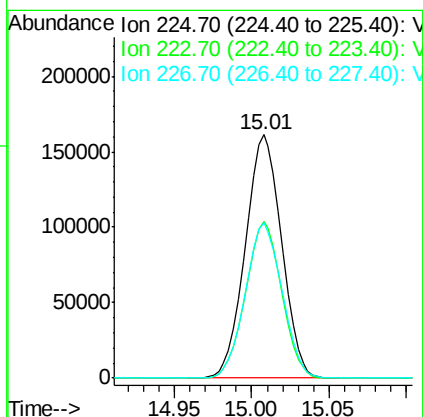
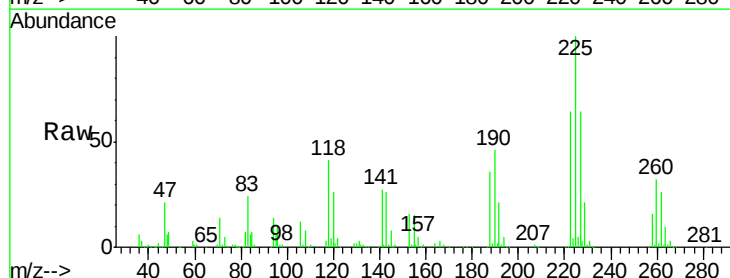
RT: 15.01 min Scan# 4116

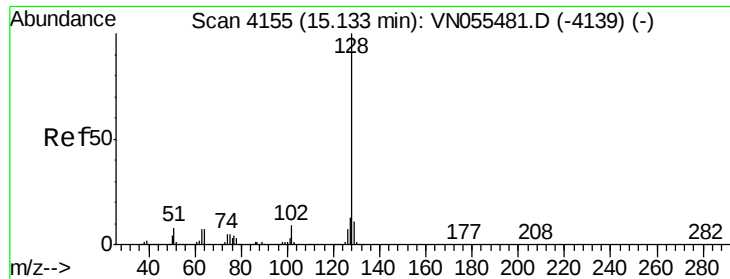
Delta R.T. 0.00 min

Lab File: VN055485.D

Acq: 9 May 2019 10:03

Tgt Ion:	225	Resp:	263427
Ion Ratio	Lower	Upper	
225	100		
223	63.9	31.4	94.3
227	64.5	32.0	96.0





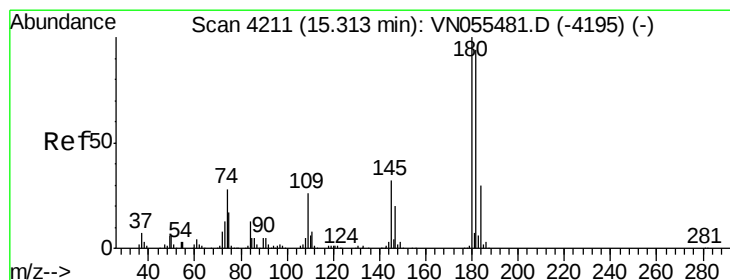
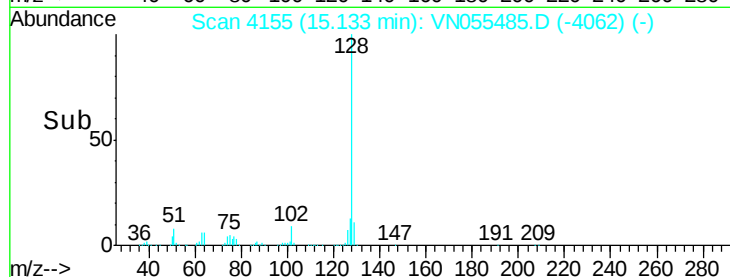
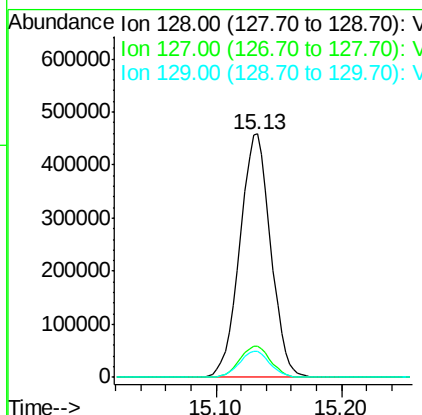
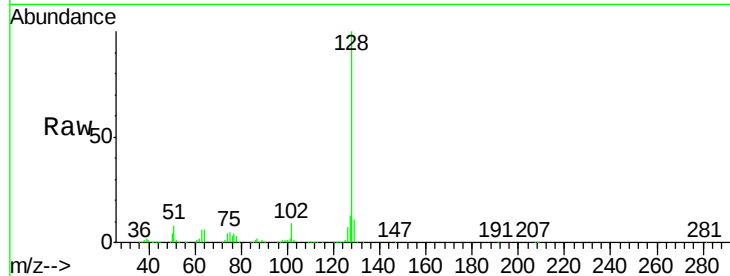
#95
Naphthalene
Concen: 40.782 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.0	15.0
129	10.8	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/10/2019 12:39:24 PM



#96
1,2,3-Trichlorobenzene
Concen: 45.446 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN055485.D
Acq: 9 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.1	141.3
145	31.4	15.8	47.4

