

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN050219\
 Data File : VN055373.D
 Acq On : 3 May 2019 2:47
 Operator : JC/SP
 Sample : VN0502MBSD02
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0502MBSD02

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 1:08:26 PM

Quant Time: May 03 09:54:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	402243	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	676499	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	563320	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	208838	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	273924	52.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.10%	
35) Dibromofluoromethane	7.59	113	217364	48.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.90%	
50) Toluene-d8	10.09	98	788800	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.40	95	253280	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	93135	18.898	ug/l	98
3) Chloromethane	2.06	50	109330	17.915	ug/l	99
4) Vinyl Chloride	2.19	62	94060	19.121	ug/l	97
5) Bromomethane	2.57	94	50172	19.255	ug/l	94
6) Chloroethane	2.71	64	52719	19.783	ug/l	99
7) Trichlorofluoromethane	3.02	101	140292	20.057	ug/l	99
8) Diethyl Ether	3.41	74	52321	21.380	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	81960	19.677	ug/l	99
10) Methyl Iodide	3.96	142	115809	19.756	ug/l	98
11) Tert butyl alcohol	4.80	59	30920	102.629	ug/l #	93
12) 1,1-Dichloroethene	3.74	96	78384	19.727	ug/l	96
13) Acrolein	3.62	56	13473	57.262	ug/l	98
14) Allyl chloride	4.33	41	161154	19.583	ug/l	99
15) Acrylonitrile	5.00	53	176067	103.969	ug/l	100
16) Acetone	3.83	43	130241	79.432	ug/l	98
17) Carbon Disulfide	4.06	76	172557	16.640	ug/l	100
18) Methyl Acetate	4.33	43	91192	22.256	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	248337	22.232	ug/l	99
20) Methylene Chloride	4.56	84	96085	19.199	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	84029	19.968	ug/l	93
22) Diisopropyl ether	5.95	45	359029	21.957	ug/l	95
23) Vinyl Acetate	5.90	43	1143873	106.739	ug/l	99
24) 1,1-Dichloroethane	5.85	63	184215	21.145	ug/l	99
25) 2-Butanone	6.84	43	210251	100.268	ug/l	97
26) 2,2-Dichloropropane	6.83	77	83708	13.914	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	99619	20.817	ug/l	99
28) Bromochloromethane	7.19	49	90025	20.500	ug/l	99
29) Tetrahydrofuran	7.22	42	147274	109.685	ug/l	99
30) Chloroform	7.37	83	170713	20.671	ug/l	100
31) Cyclohexane	7.65	56	162041	19.576	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	137294	20.483	ug/l	98
36) 1,1-Dichloropropene	7.79	75	121488	18.749	ug/l	98
37) Ethyl Acetate	6.94	43	97863	19.706	ug/l	97
38) Carbon Tetrachloride	7.78	117	112232	17.955	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN050219\
 Data File : VN055373.D
 Acq On : 3 May 2019 2:47
 Operator : JC/SP
 Sample : VN0502MBSD02
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0502MBSD02

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 1:08:26 PM

Quant Time: May 03 09:54:43 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M

Quant Title : SW846 8260

QLast Update : Tue Apr 30 07:16:52 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	124688	18.098	ug/l	97
40) Benzene	8.04	78	372305	19.490	ug/l	99
41) Methacrylonitrile	7.18	41	56559m	21.471	ug/l	
42) 1,2-Dichloroethane	8.13	62	132891	19.642	ug/l	100
43) Isopropyl Acetate	8.17	43	171321	21.466	ug/l #	88
44) Trichloroethene	8.84	130	94451	19.396	ug/l	100
45) 1,2-Dichloropropane	9.12	63	110874	20.125	ug/l	97
46) Dibromomethane	9.21	93	57147	18.977	ug/l	98
47) Bromodichloromethane	9.40	83	123536	19.122	ug/l	99
48) Methyl methacrylate	9.20	41	78195	19.930	ug/l	99
49) 1,4-Dioxane	9.21	88	15453	381.006	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	454119	101.063	ug/l	100
52) Toluene	10.16	92	215067	19.622	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	103927	18.531	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	130950	18.727	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	80111	19.683	ug/l	99
56) Ethyl methacrylate	10.43	69	102628	20.487	ug/l	99
57) 1,3-Dichloropropane	10.71	76	144499	20.238	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	109051	79.068	ug/l	98
59) 2-Hexanone	10.75	43	272234	96.829	ug/l	98
60) Dibromochloromethane	10.90	129	79463	19.103	ug/l	100
61) 1,2-Dibromoethane	11.01	107	73343	19.497	ug/l	98
64) Tetrachloroethene	10.63	164	96610	20.972	ug/l	98
65) Chlorobenzene	11.43	112	217582	19.756	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	84072	19.495	ug/l	99
67) Ethyl Benzene	11.51	91	398206	20.022	ug/l	100
68) m/p-Xylenes	11.62	106	286746	40.392	ug/l	99
69) o-Xylene	11.95	106	146560	20.829	ug/l	98
70) Styrene	11.96	104	226063	20.925	ug/l	99
71) Bromoform	12.13	173	45397	18.971	ug/l #	97
73) Isopropylbenzene	12.25	105	391140	21.752	ug/l	100
74) N-amyl acetate	12.07	43	123979	23.132	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	92119	20.379	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	87200m	21.004	ug/l	
77) Bromobenzene	12.53	156	88701	20.985	ug/l	99
78) n-propylbenzene	12.59	91	418060	19.488	ug/l	99
79) 2-Chlorotoluene	12.67	91	257473	21.216	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	320713	19.589	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	18404	16.700	ug/l	90
82) 4-Chlorotoluene	12.77	91	239109	19.170	ug/l	99
83) tert-Butylbenzene	12.99	119	272748	21.900	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	316221	21.596	ug/l	100
85) sec-Butylbenzene	13.17	105	343034	19.277	ug/l	98
86) p-Isopropyltoluene	13.29	119	288881	19.751	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	136707	19.562	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	129213	19.634	ug/l	98
89) n-Butylbenzene	13.61	91	209653	20.172	ug/l	100
90) Hexachloroethane	13.87	117	46283	19.009	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	139688	20.168	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	11933	21.719	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN050219\
Data File : VN055373.D
Acq On : 3 May 2019 2:47
Operator : JC/SP
Sample : VN0502MBSD02
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

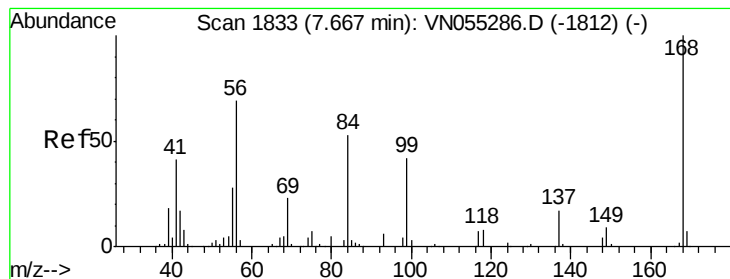
Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM

Quant Time: May 03 09:54:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	42904	17.983	ug/l	97
94) Hexachlorobutadiene	15.01	225	47023	20.935	ug/l	99
95) Naphthalene	15.13	128	89875	17.780	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	46016	18.831	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBSD02

Tgt Ion:168 Resp: 402243

Ion Ratio Lower Upper

168 100

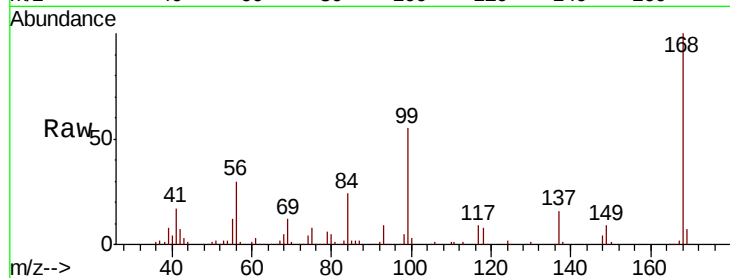
99 54.6 43.6 65.4

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:26 PM



Abundance Ion 167.90 (167.60 to 168.60): VN055286.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055286.D (-1812) (-)

7.67

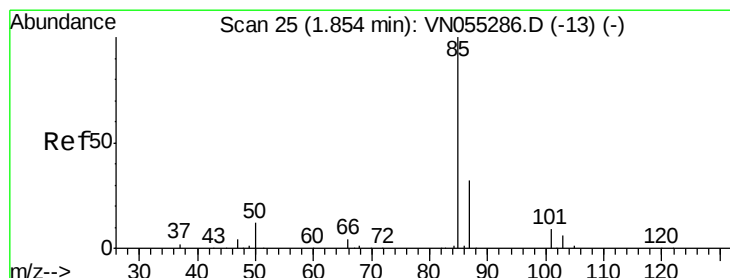
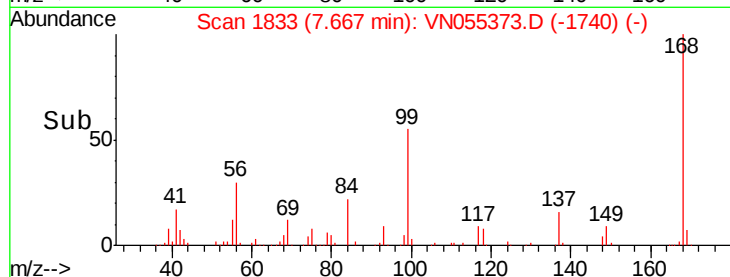
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.898 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN055373.D

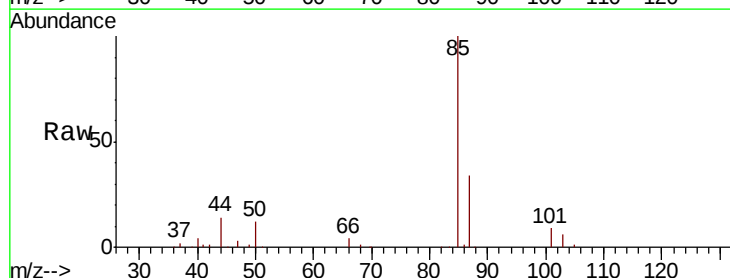
Acq: 3 May 2019 2:47

Tgt Ion: 85 Resp: 93135

Ion Ratio Lower Upper

85 100

87 33.6 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN055286.D (-13) (-)

Ion 86.90 (86.60 to 87.60): VN055286.D (-13) (-)

1.85

80000

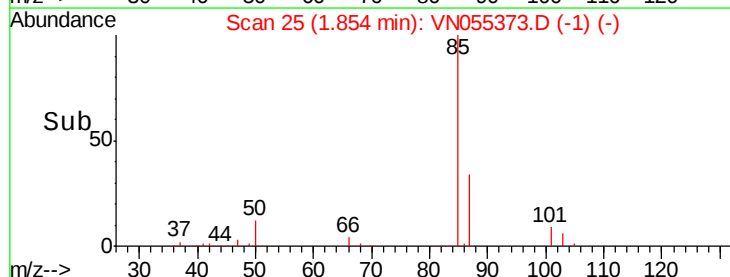
60000

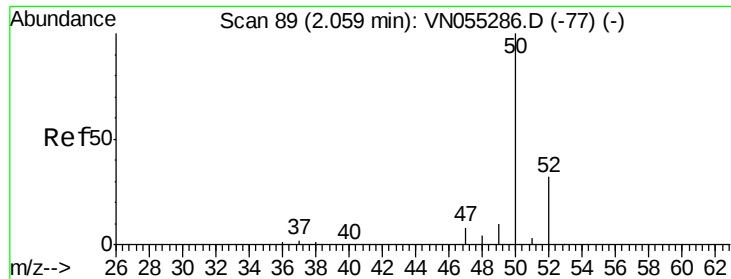
40000

20000

0

Time-->





#3

Chloromethane

Concen: 17.915 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBSD02

Tgt Ion: 50 Resp: 109330

Ion Ratio Lower Upper

50 100

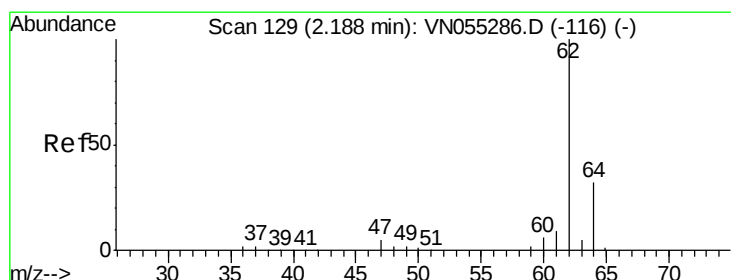
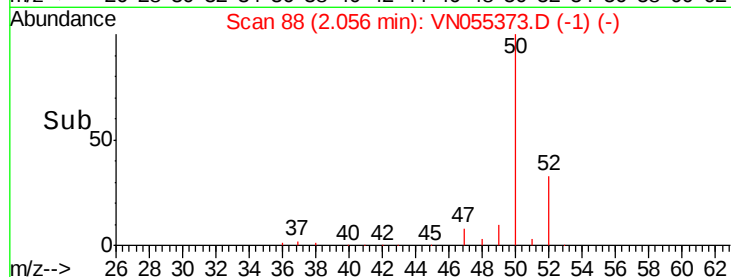
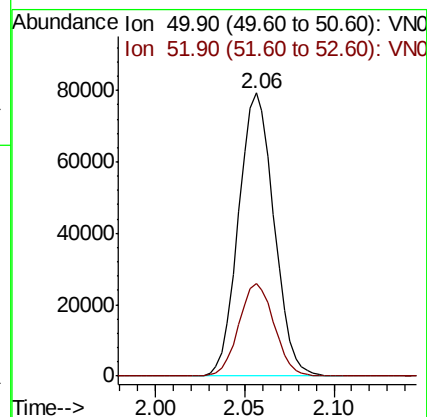
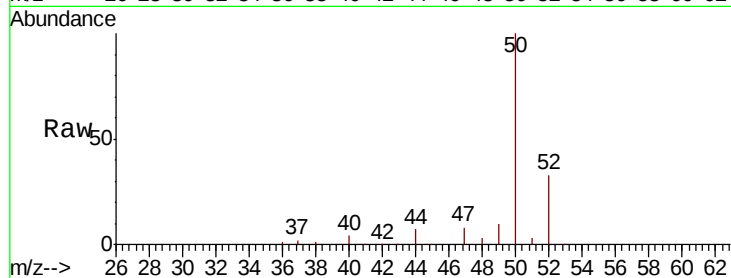
52 32.8 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:26 PM



#4

Vinyl Chloride

Concen: 19.121 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055373.D

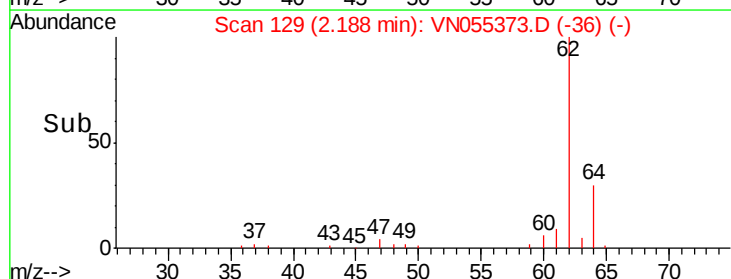
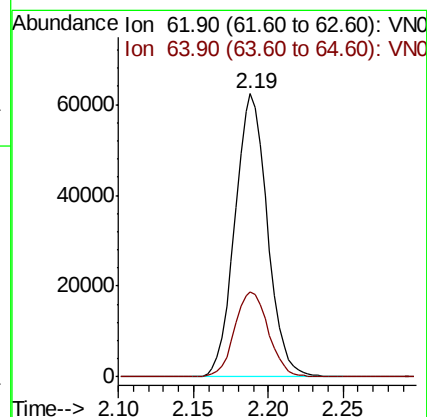
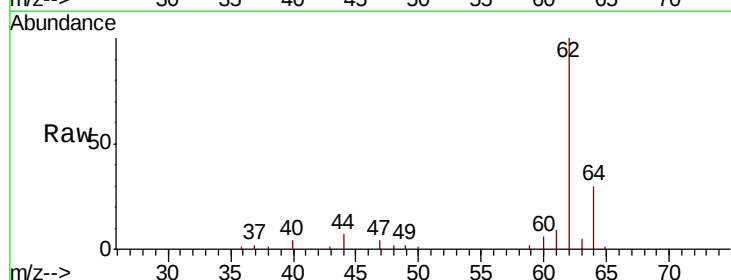
Acq: 3 May 2019 2:47

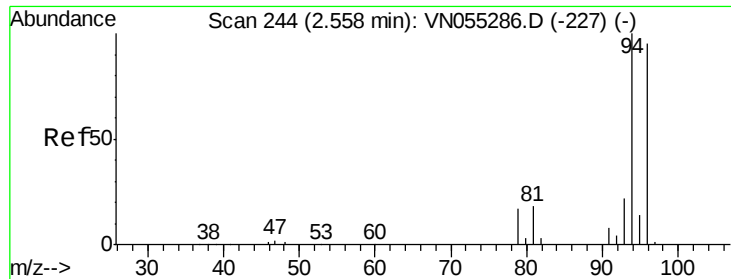
Tgt Ion: 62 Resp: 94060

Ion Ratio Lower Upper

62 100

64 30.1 25.5 38.3





#5

Bromomethane

Concen: 19.255 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBSD02

Tgt Ion: 94 Resp: 50172

Ion Ratio Lower Upper

94 100

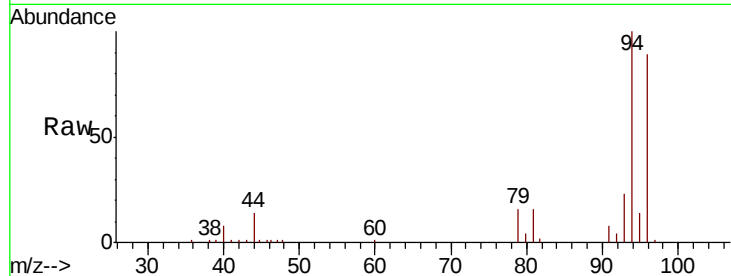
96 88.9 76.0 114.0

Manual Integrations

APPROVED

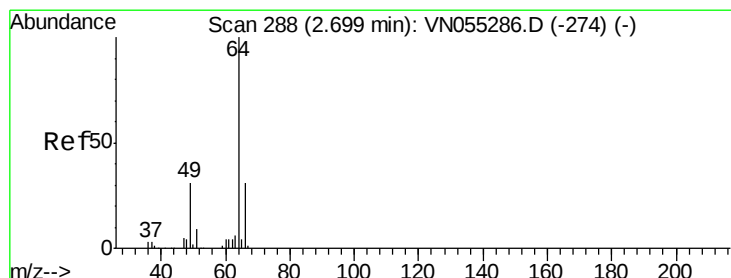
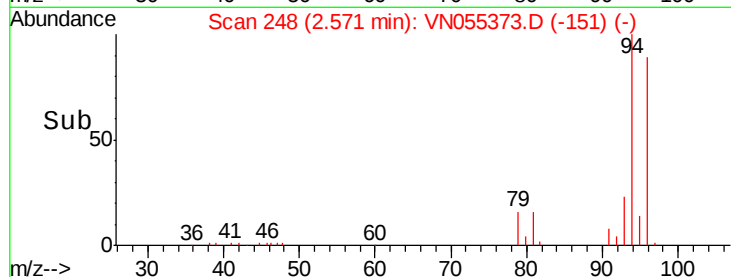
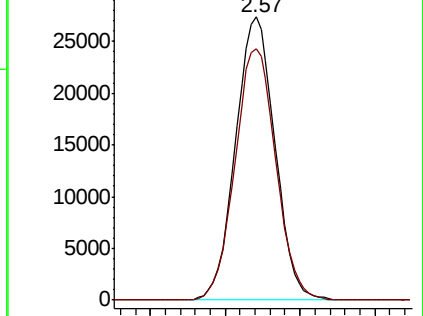
MMDadoda

5/3/2019 1:08:26 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.783 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN055373.D

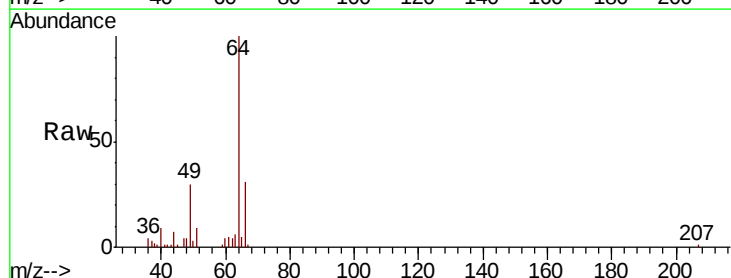
Acq: 3 May 2019 2:47

Tgt Ion: 64 Resp: 52719

Ion Ratio Lower Upper

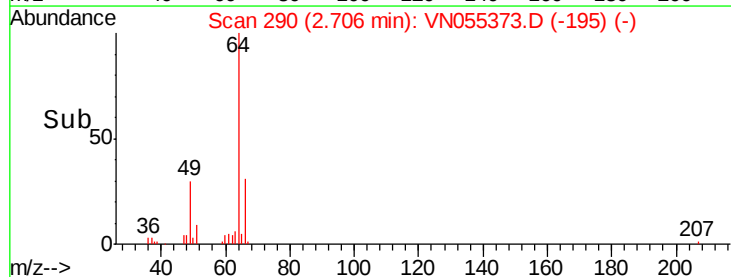
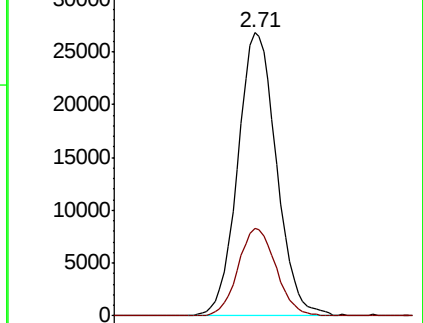
64 100

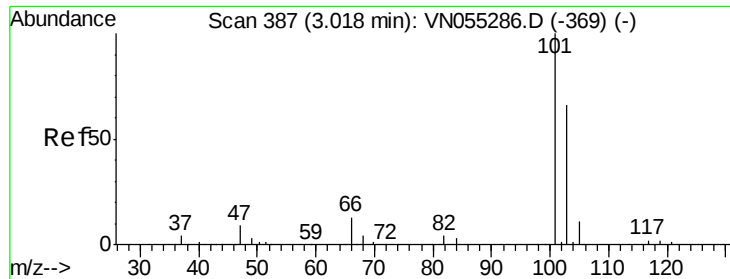
66 30.8 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

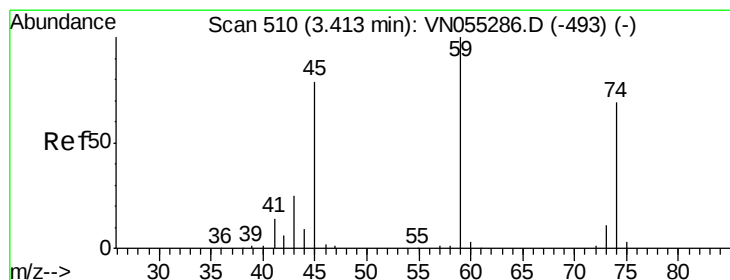
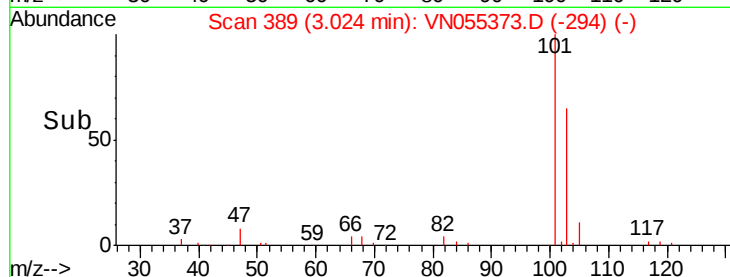
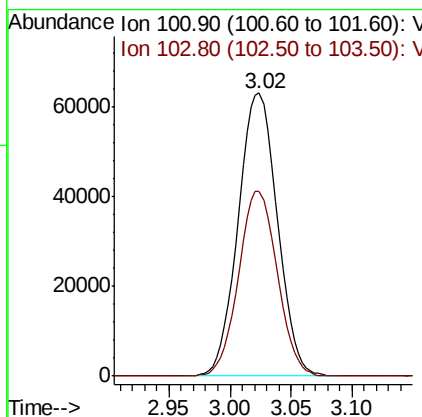
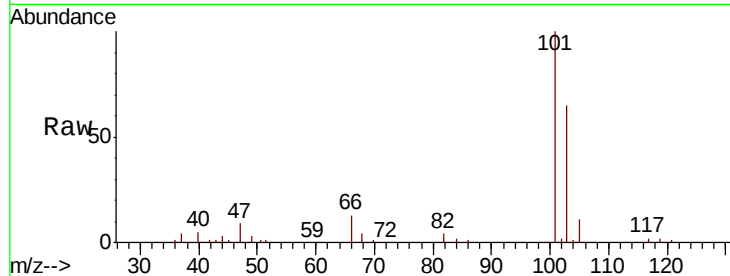
Trichlorofluoromethane
Concen: 20.057 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.01 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampled :
VN0502MBSD02

Tgt Ion: 101 Resp: 140292
Ion Ratio Lower Upper
101 100
103 65.3 52.6 79.0

Manual Integrations
APPROVED

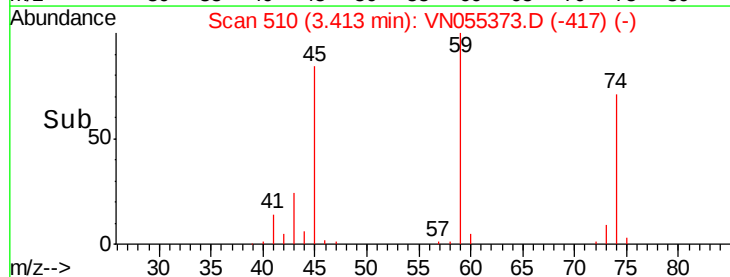
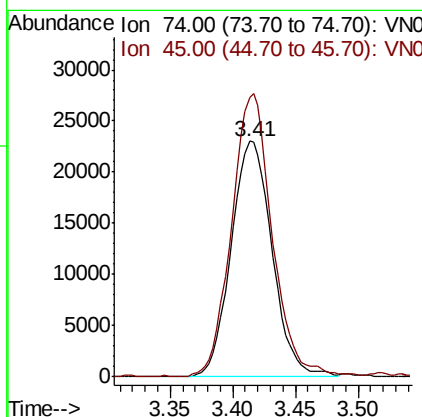
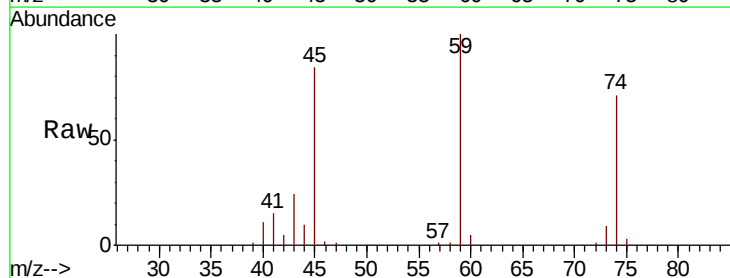
MMDadoda
5/3/2019 1:08:26 PM

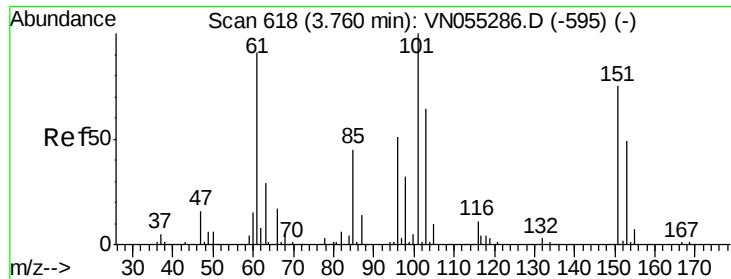


#8

Diethyl Ether
Concen: 21.380 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion: 74 Resp: 52321
Ion Ratio Lower Upper
74 100
45 119.7 58.9 176.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.677 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

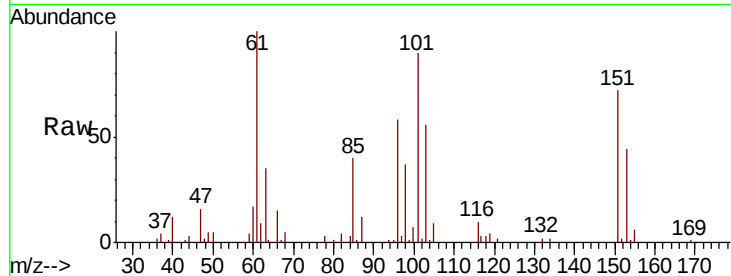
ClientSampleId :

VN0502MBSD02

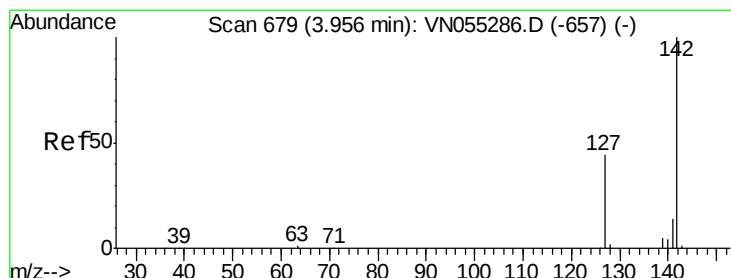
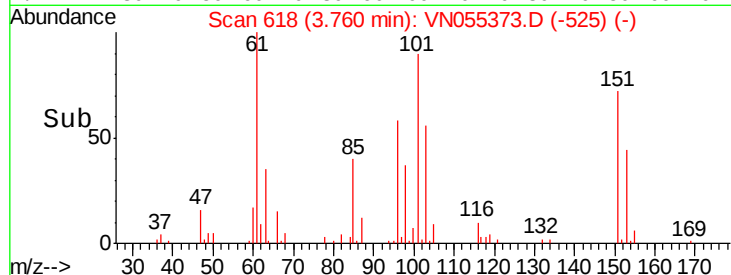
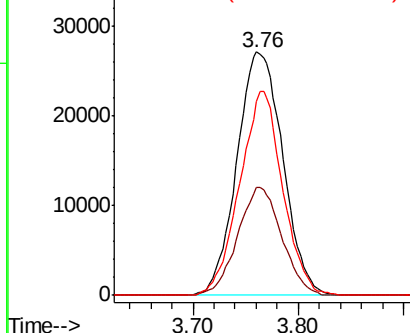
Tgt Ion:	101	Resp:	81960
Ion Ratio	Lower	Upper	
101	100		
85	42.6	35.7	53.5
151	78.7	63.3	94.9

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.756 ug/l

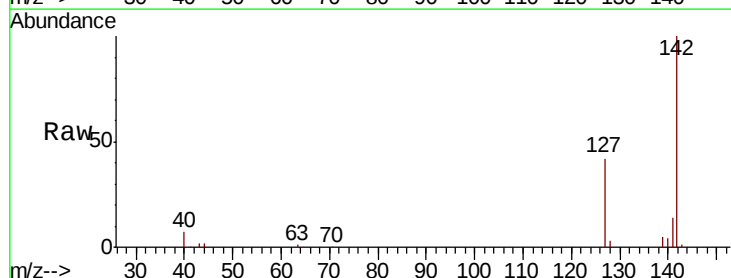
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

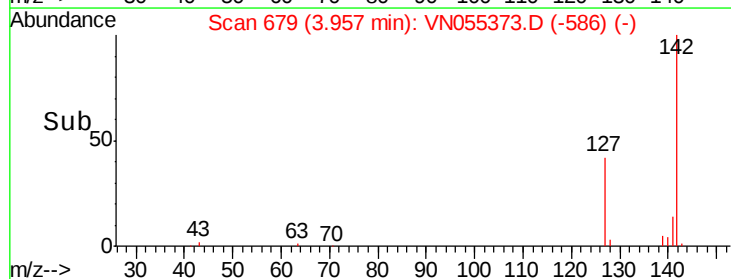
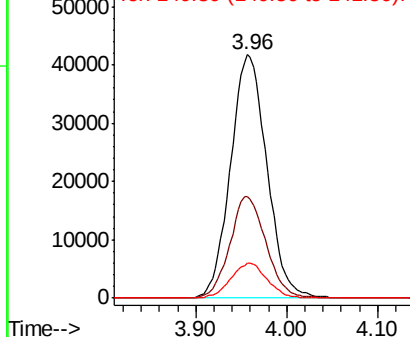
Lab File: VN055373.D

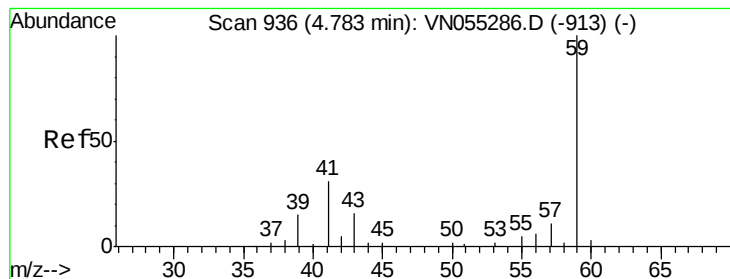
Acq: 3 May 2019 2:47

Tgt Ion:	142	Resp:	115809
Ion Ratio	Lower	Upper	
142	100		
127	41.5	34.4	51.6
141	14.3	11.5	17.3



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

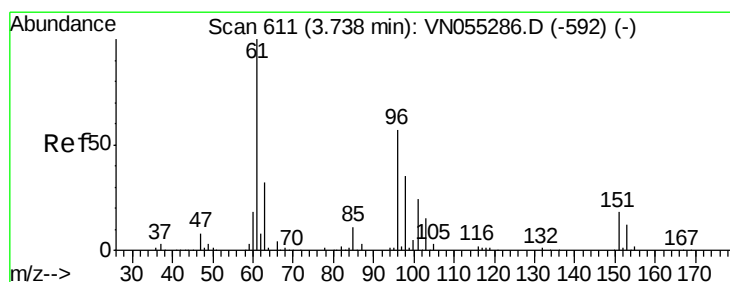
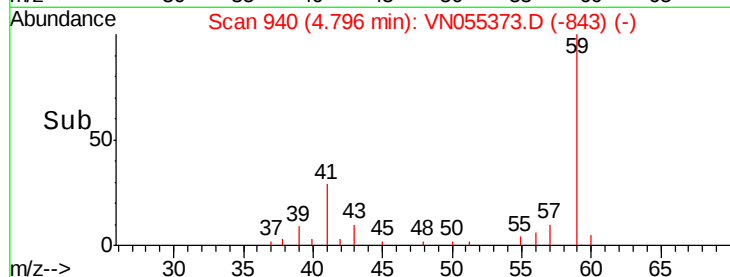
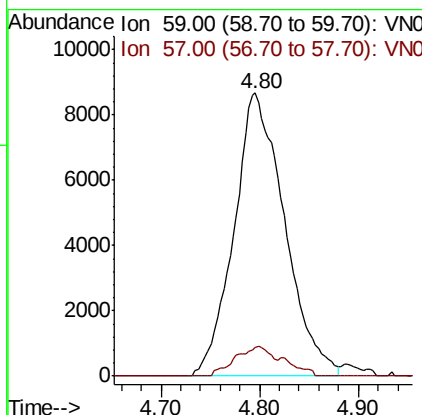
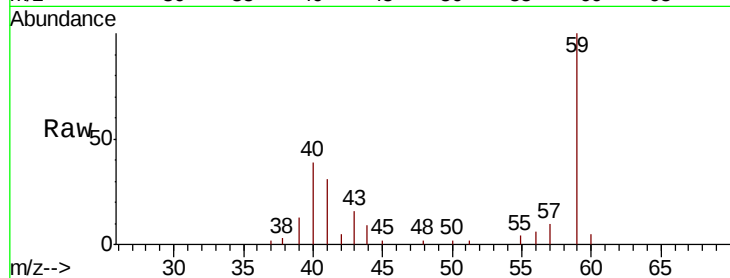
Tert butyl alcohol
 Concen: 102.629 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.01 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
59	100		
57	7.6	8.2	12.2#

Manual Integrations
 APPROVED

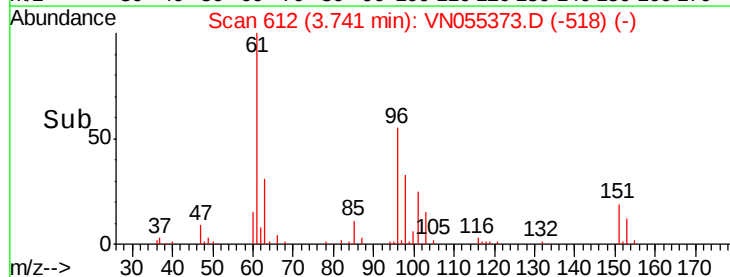
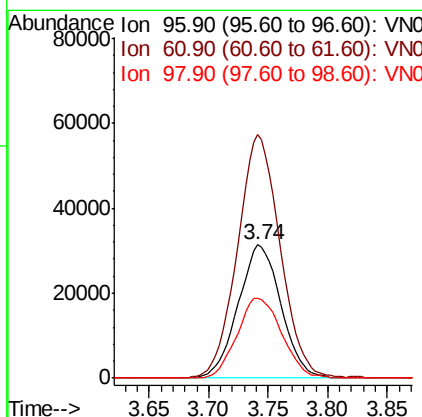
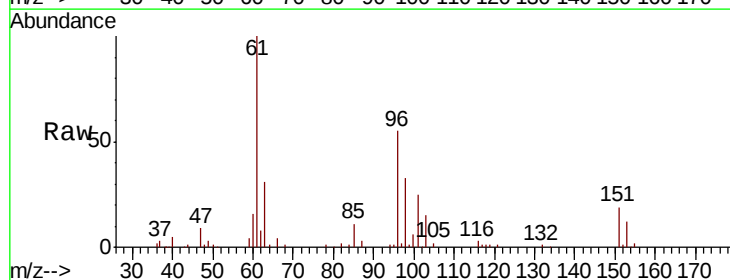
MMDadoda
 5/3/2019 1:08:26 PM

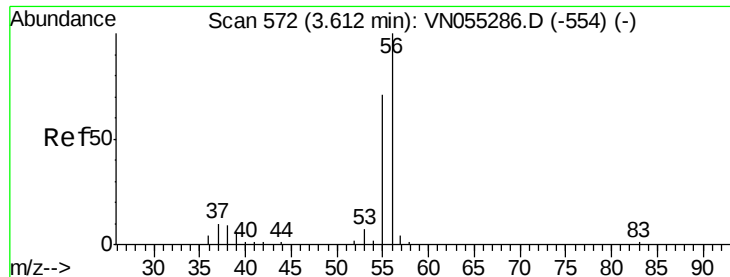


#12

1,1-Dichloroethene
 Concen: 19.727 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	183.0	140.9	211.3
98	60.3	50.0	75.0





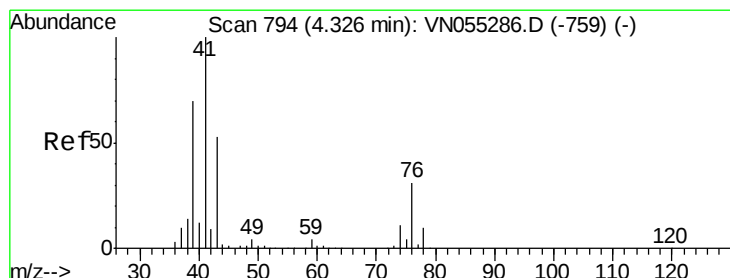
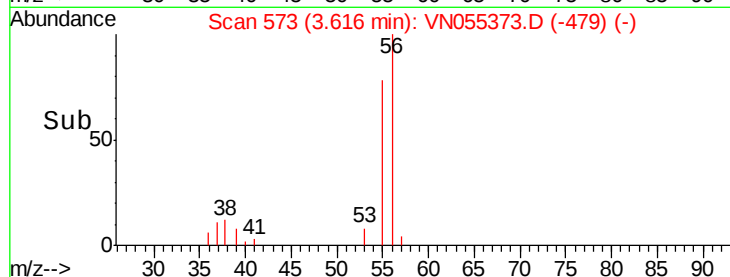
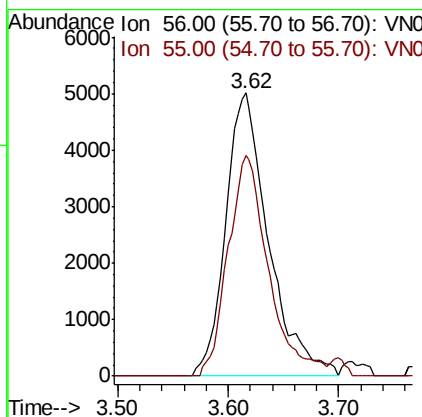
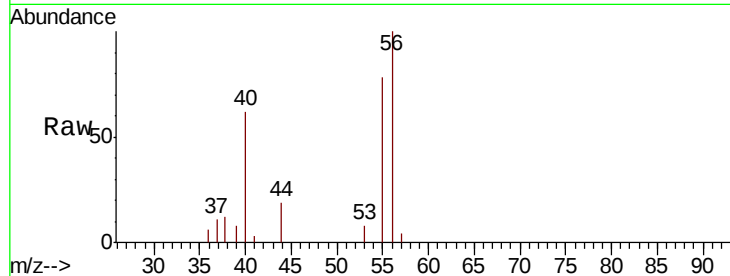
#13
 Acrolein
 Concen: 57.262 ug/l
 RT: 3.62 min Scan# 573
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
56	100		
55	73.6	57.4	86.2

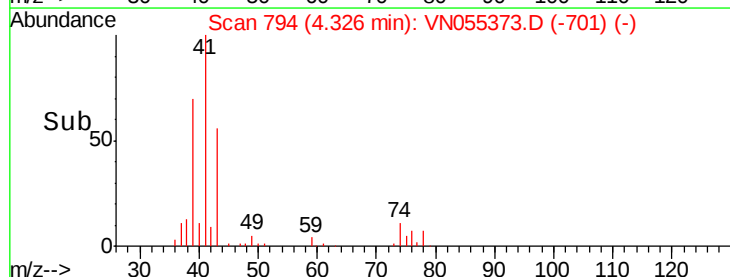
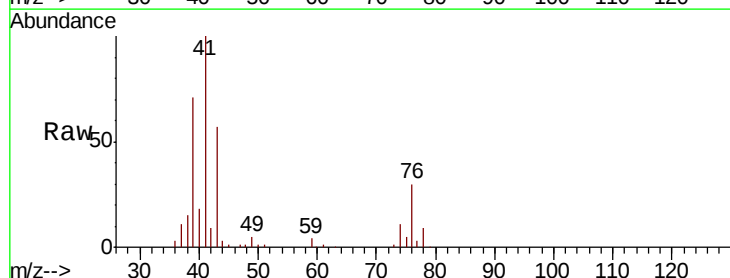
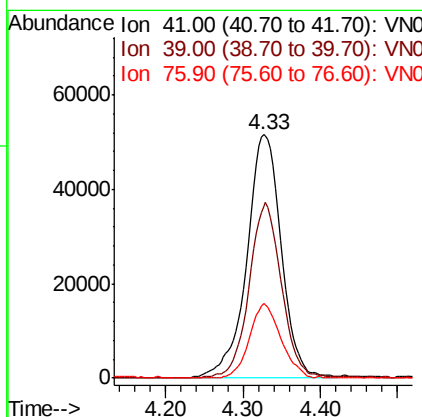
Manual Integrations
 APPROVED

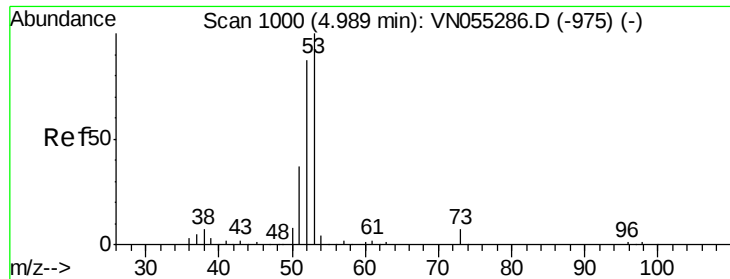
MMDadoda
 5/3/2019 1:08:26 PM



#14
 Allyl chloride
 Concen: 19.583 ug/l
 RT: 4.33 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
41	100		
39	67.3	53.0	79.6
76	27.8	22.7	34.1





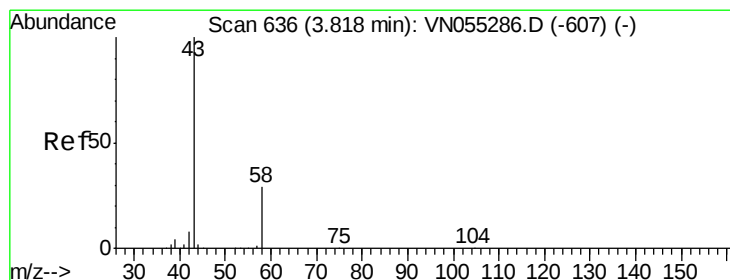
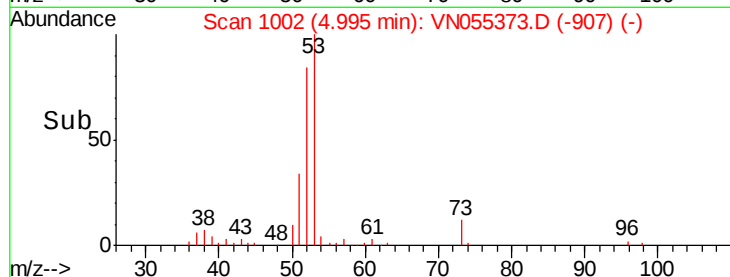
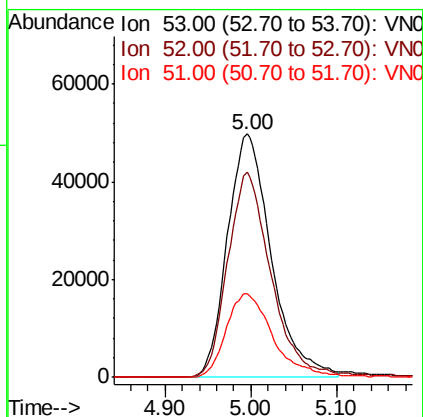
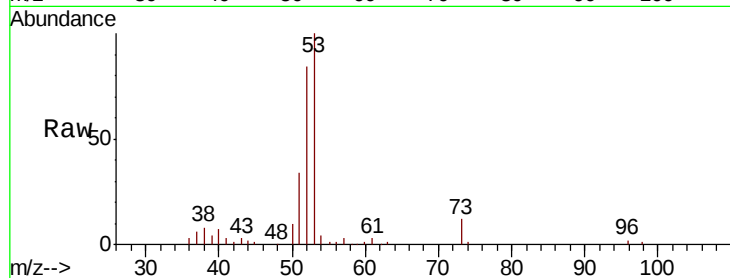
#15
Acrylonitrile
Concen: 103.969 ug/l
RT: 5.00 min Scan# 1002
Delta R.T. 0.01 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
53	100		
52	83.2	66.5	99.7
51	36.6	29.6	44.4

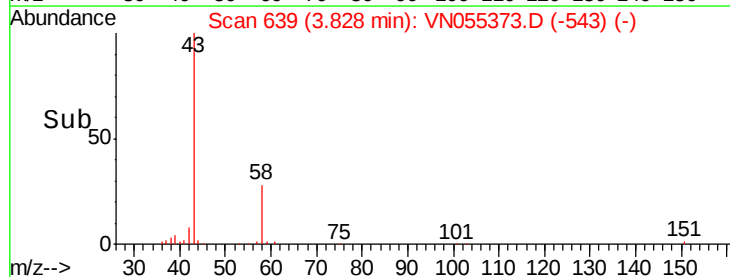
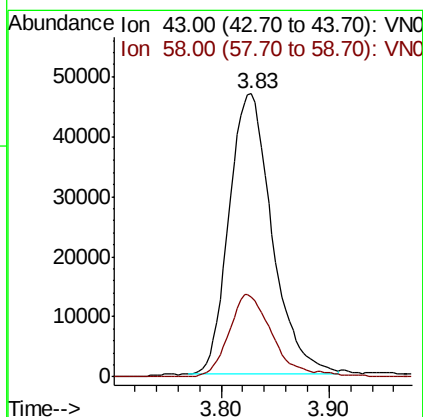
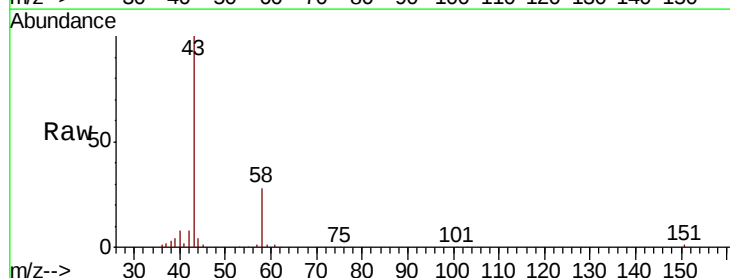
Manual Integrations
APPROVED

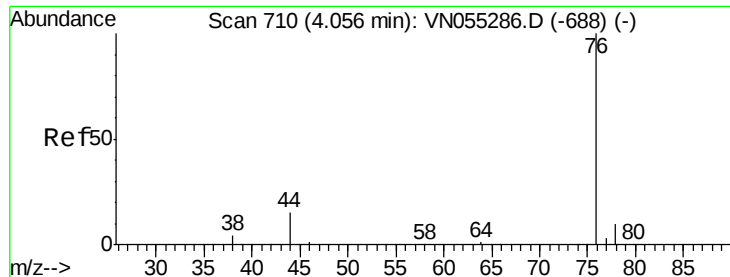
MMDadoda
5/3/2019 1:08:26 PM



#16
Acetone
Concen: 79.432 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.7	23.6	35.4





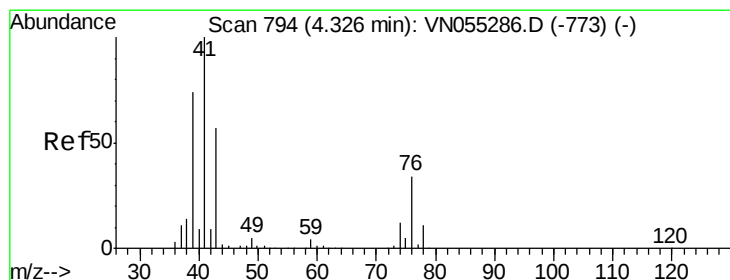
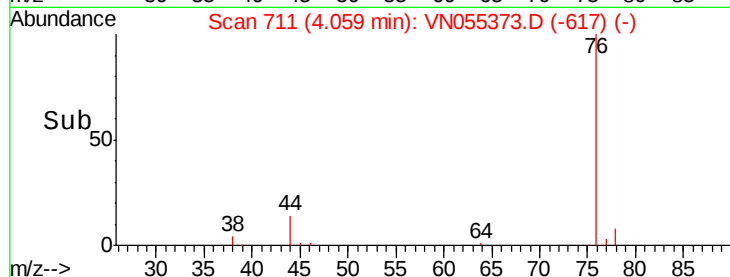
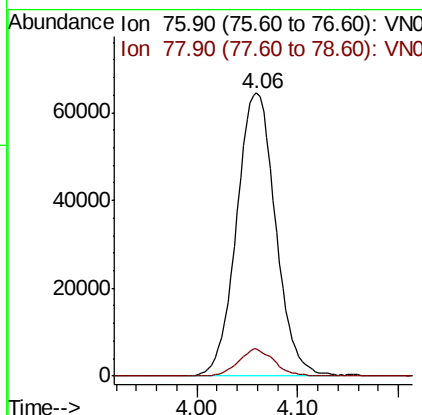
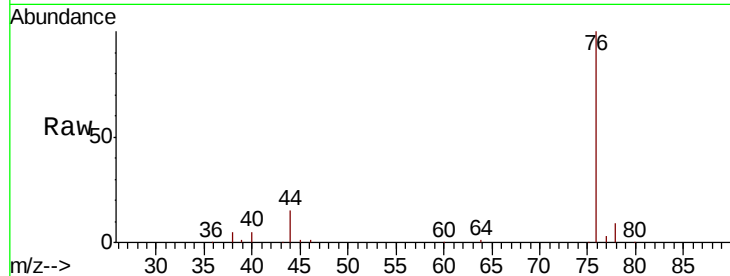
#17
Carbon Disulfide
Concen: 16.640 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion: 76 Resp: 172557
Ion Ratio Lower Upper
76 100
78 9.5 7.6 11.4

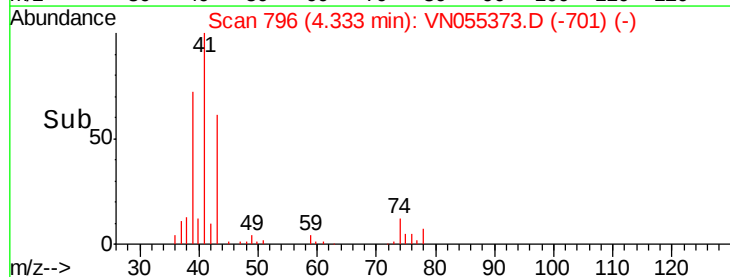
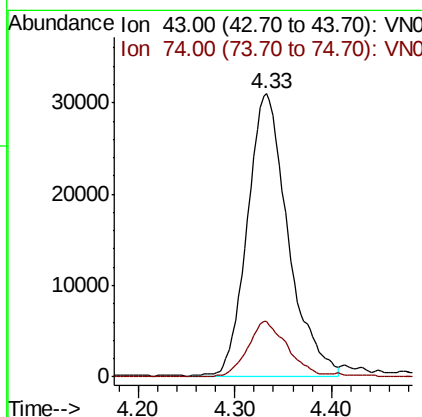
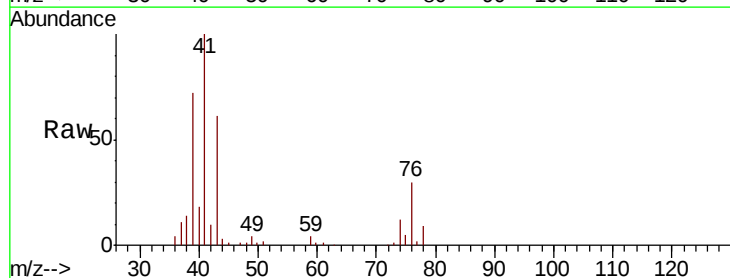
Manual Integrations
APPROVED

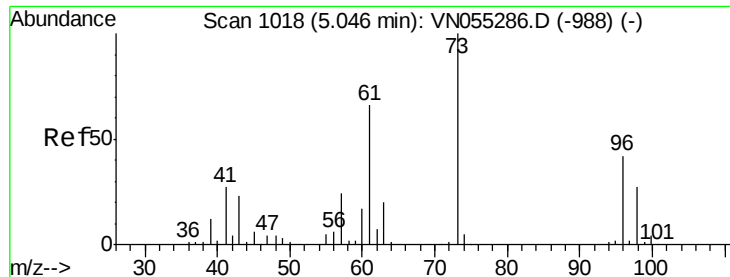
MMDadoda
5/3/2019 1:08:26 PM



#18
Methyl Acetate
Concen: 22.256 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion: 43 Resp: 91192
Ion Ratio Lower Upper
43 100
74 19.1 15.8 23.8





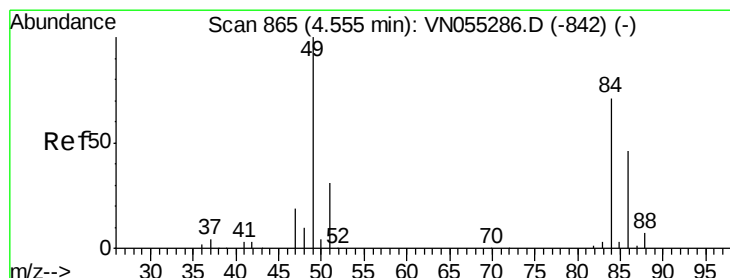
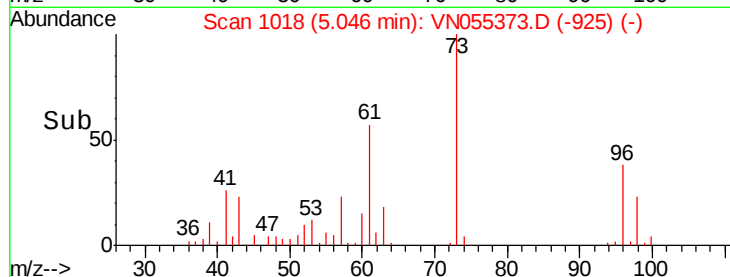
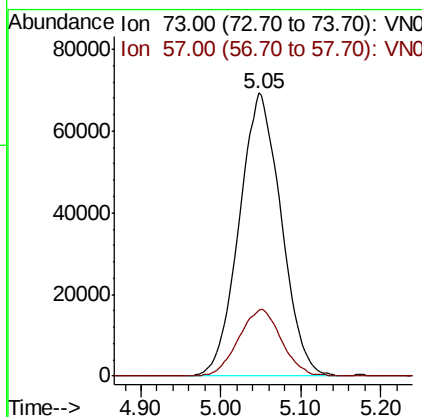
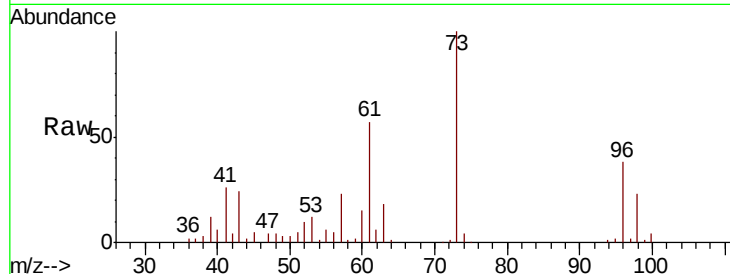
#19
Methyl tert-butyl Ether
Concen: 22.232 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion: 73 Resp: 248337
Ion Ratio Lower Upper
73 100
57 23.2 19.1 28.7

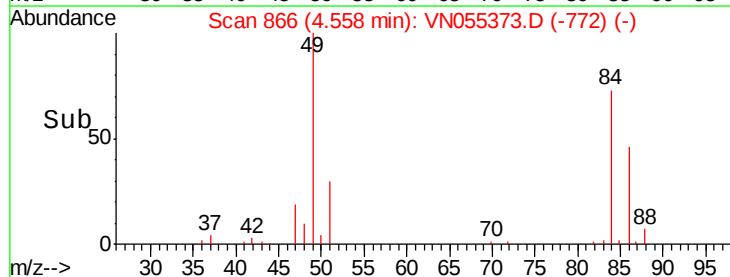
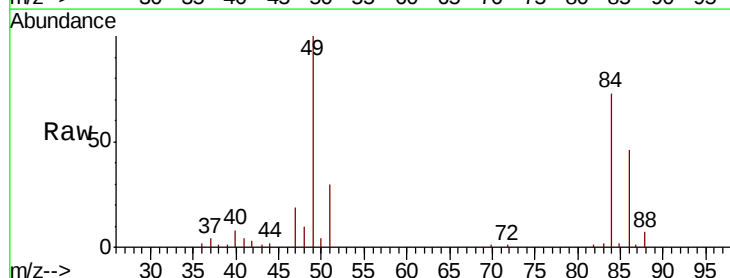
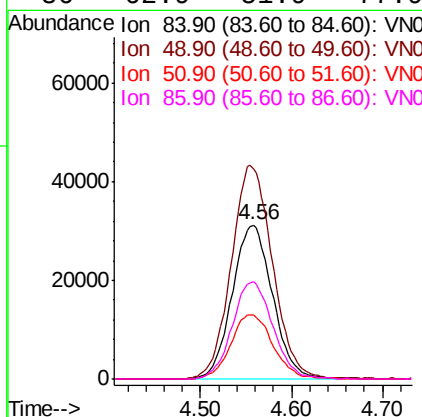
Manual Integrations
APPROVED

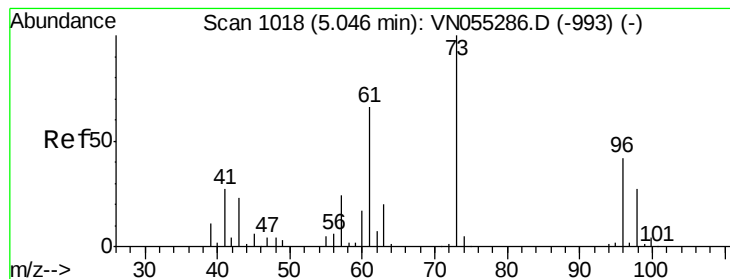
MMDadoda
5/3/2019 1:08:26 PM



#20
Methylene Chloride
Concen: 19.199 ug/l
RT: 4.56 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion: 84 Resp: 96085
Ion Ratio Lower Upper
84 100
49 136.1 112.4 168.6
51 41.2 34.6 51.8
86 62.9 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 19.968 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBSD02

Tgt Ion: 96 Resp: 84029

Ion Ratio Lower Upper

96 100

61 148.7 126.2 189.4

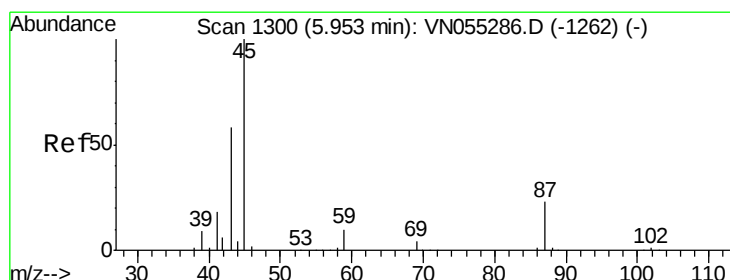
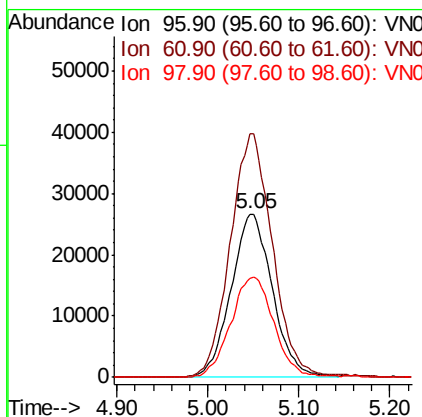
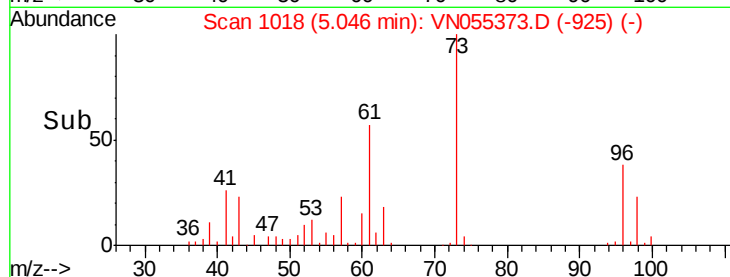
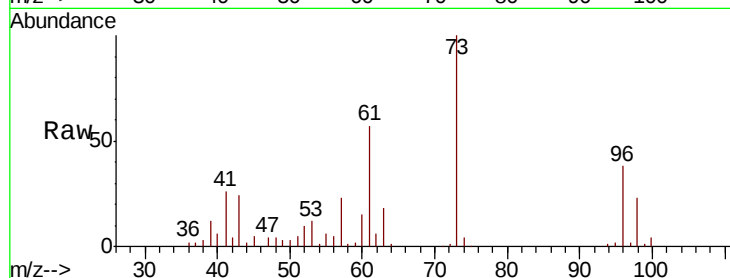
98 60.8 52.2 78.2

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:26 PM



#22

Diisopropyl ether

Concen: 21.957 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Tgt Ion: 45 Resp: 359029

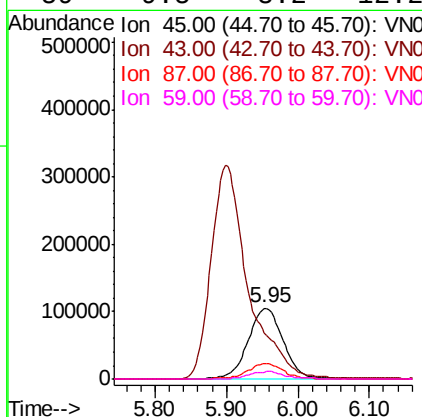
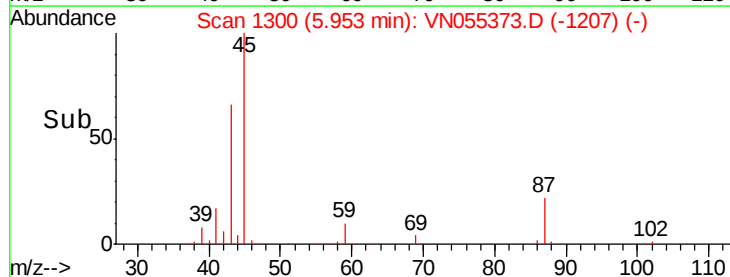
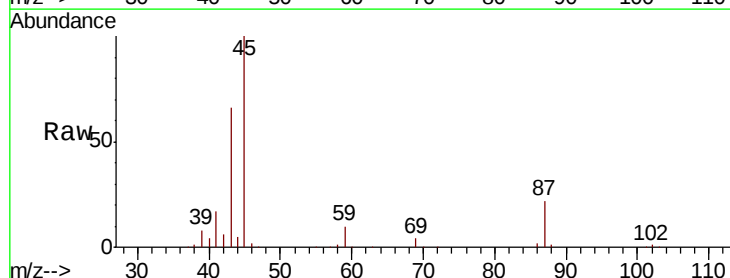
Ion Ratio Lower Upper

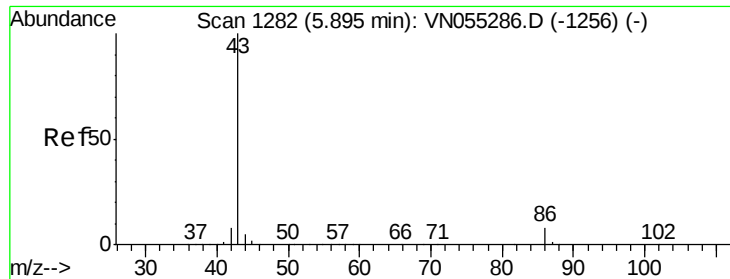
45 100

43 63.5 46.6 70.0

87 21.9 18.1 27.1

59 9.5 8.2 12.2





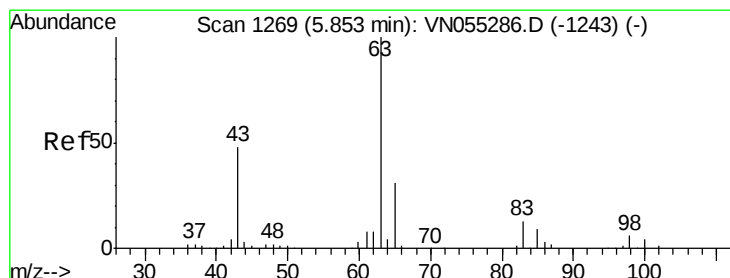
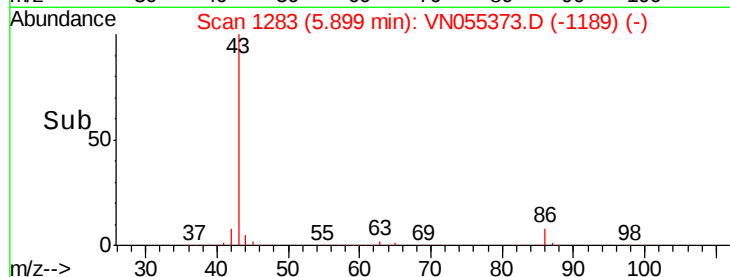
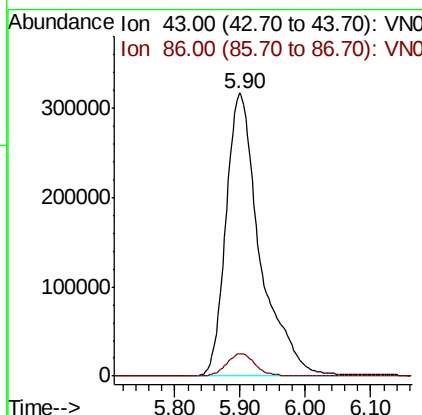
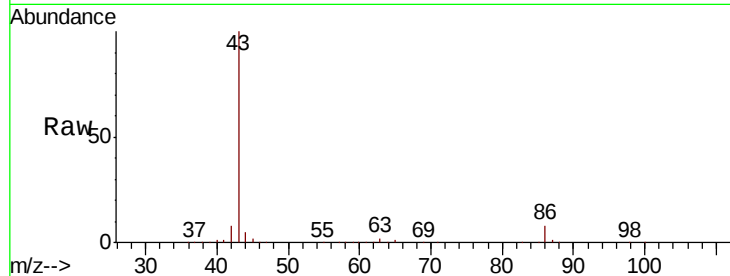
#23
 Vinyl Acetate
 Concen: 106.739 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion: 43 Resp: 1143873
 Ion Ratio Lower Upper
 43 100
 86 7.9 6.6 10.0

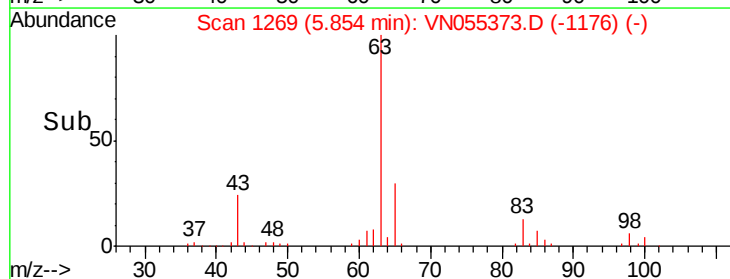
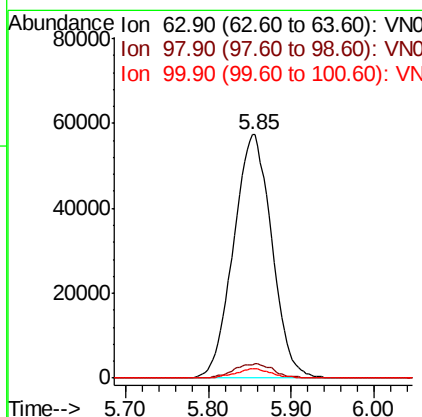
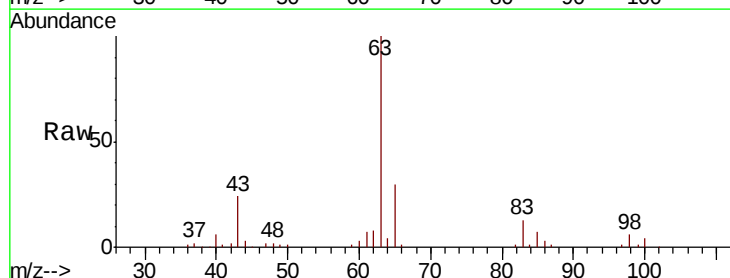
Manual Integrations
 APPROVED

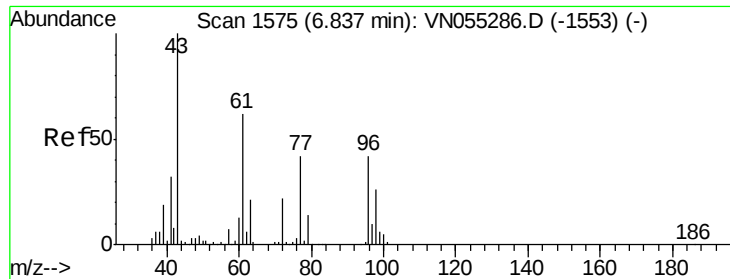
MMDadoda
 5/3/2019 1:08:26 PM



#24
 1,1-Dichloroethane
 Concen: 21.145 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion: 63 Resp: 184215
 Ion Ratio Lower Upper
 63 100
 98 5.5 3.0 9.0
 100 4.0 1.8 5.4





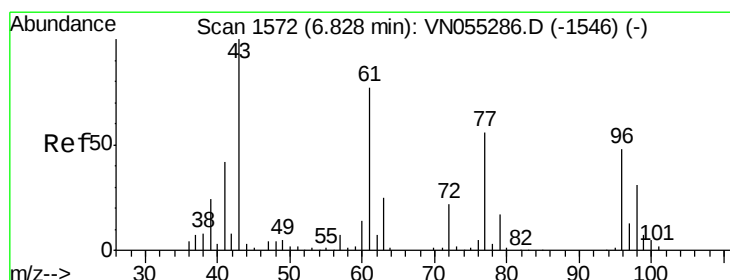
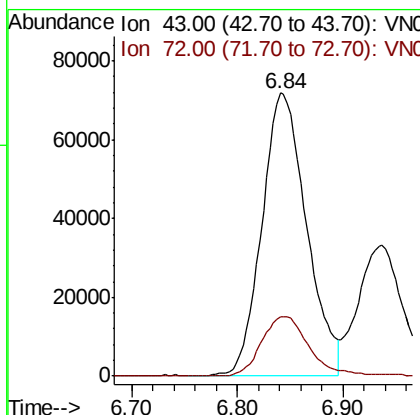
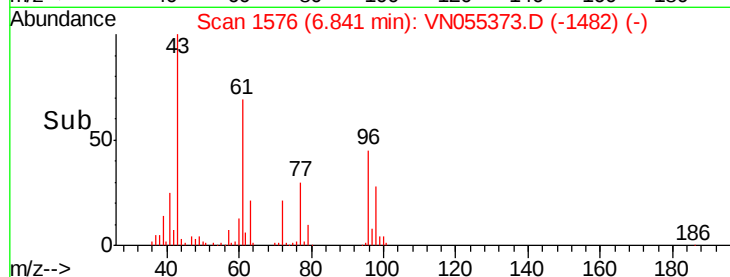
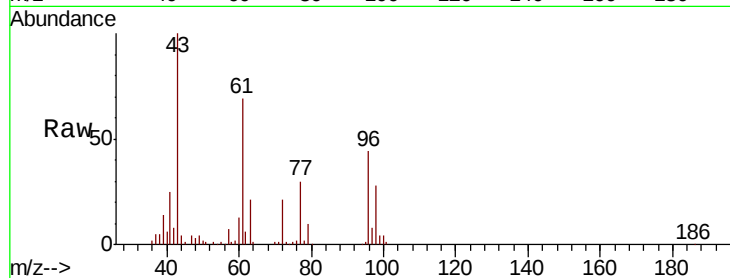
#25
2-Butanone
Concen: 100.268 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion: 43 Resp: 210251
Ion Ratio Lower Upper
43 100
72 20.9 18.0 27.0

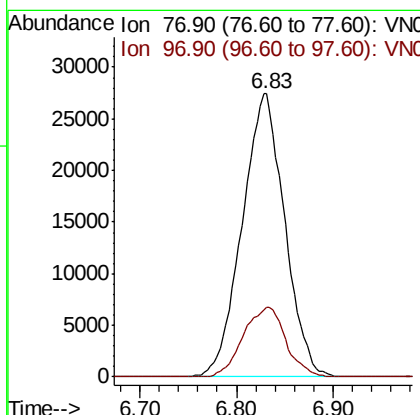
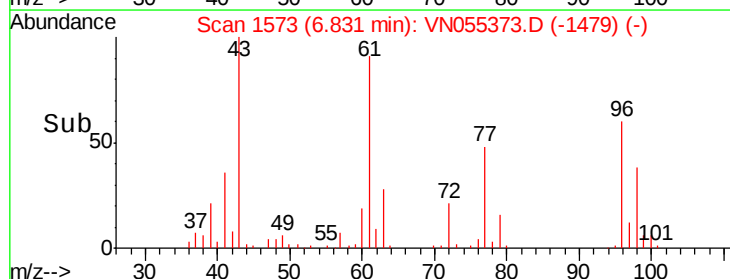
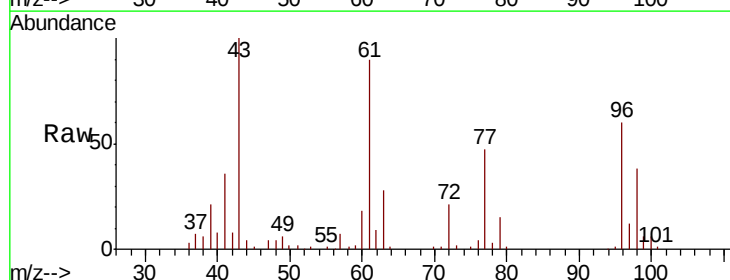
Manual Integrations
APPROVED

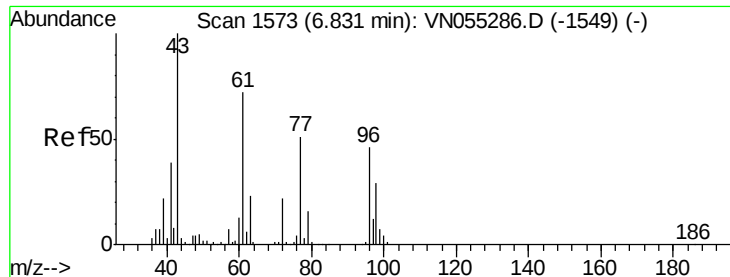
MMDadoda
5/3/2019 1:08:26 PM



#26
2,2-Dichloropropane
Concen: 13.914 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion: 77 Resp: 83708
Ion Ratio Lower Upper
77 100
97 24.6 11.4 34.2





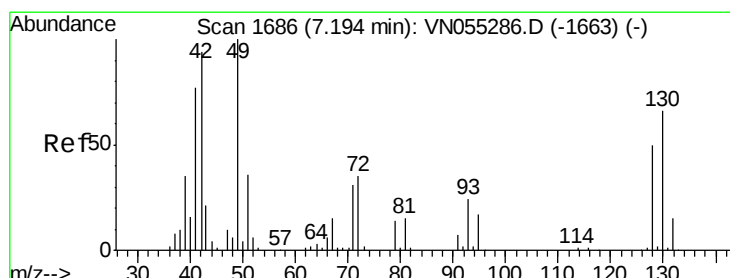
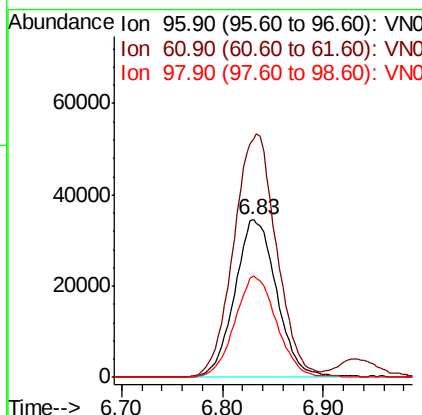
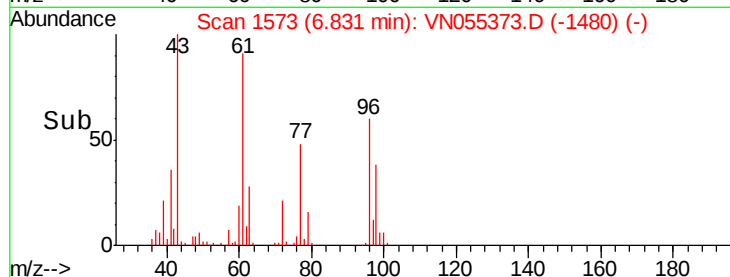
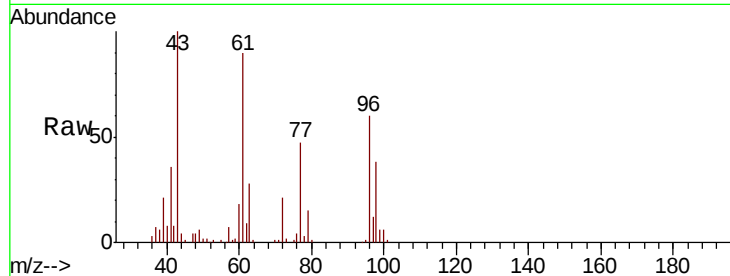
#27
 cis-1,2-Dichloroethene
 Concen: 20.817 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampled :
 VN0502MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	99619		
61	157.3	0.0	316.2	
98	64.3	0.0	126.6	

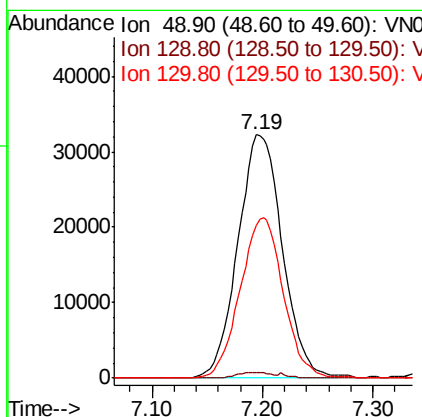
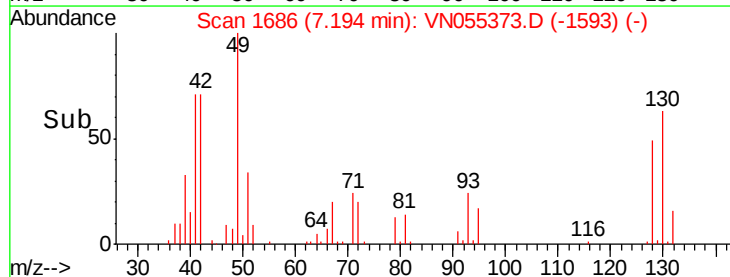
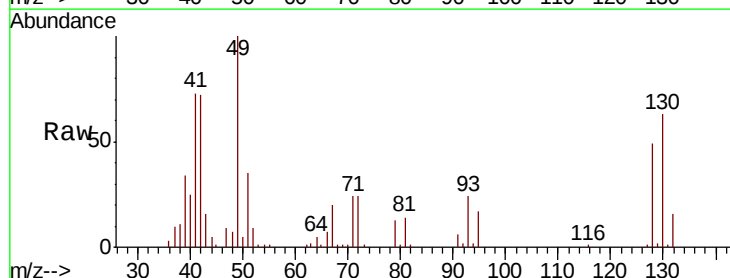
Manual Integrations
 APPROVED

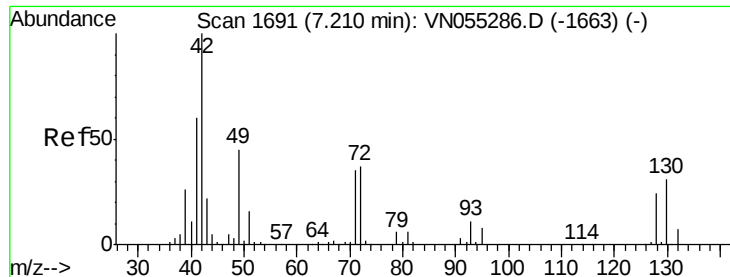
MMDadoda
 5/3/2019 1:08:26 PM



#28
 Bromochloromethane
 Concen: 20.500 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	90025		
129	1.8	0.0	2.4	
130	63.9	52.0	78.0	





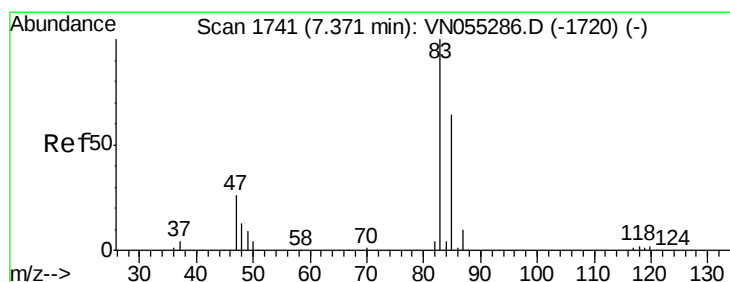
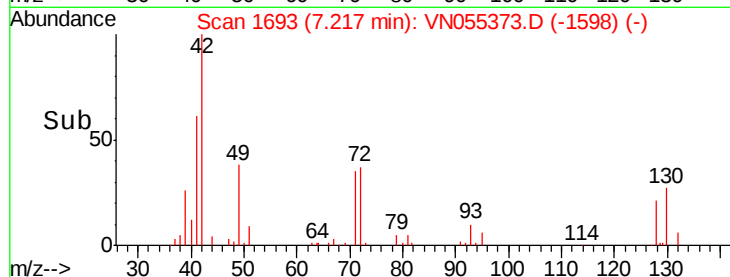
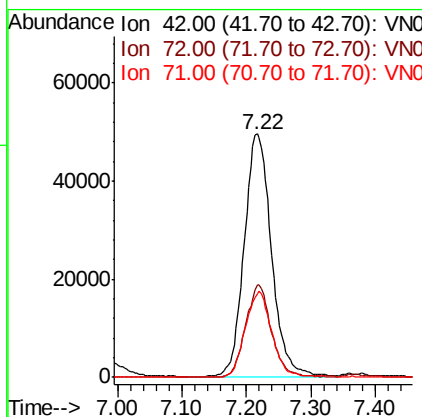
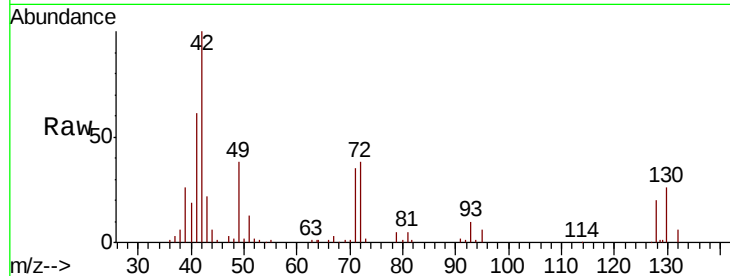
#29
Tetrahydrofuran
Concen: 109.685 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	35.7	29.0	43.6
71	33.9	27.1	40.7

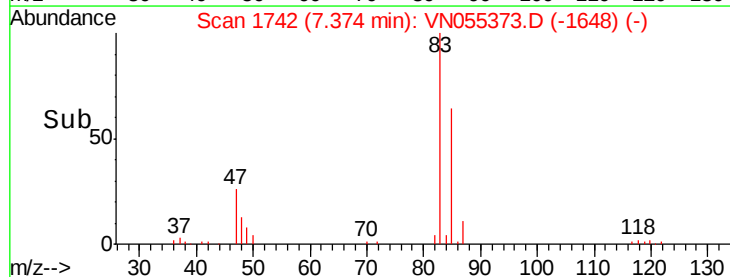
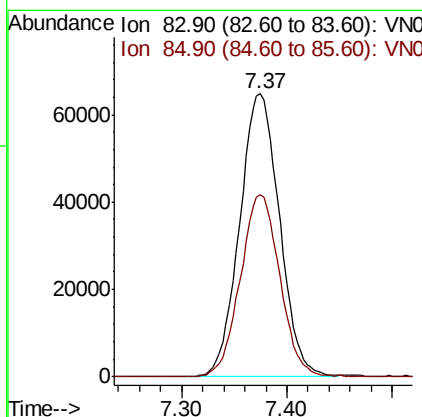
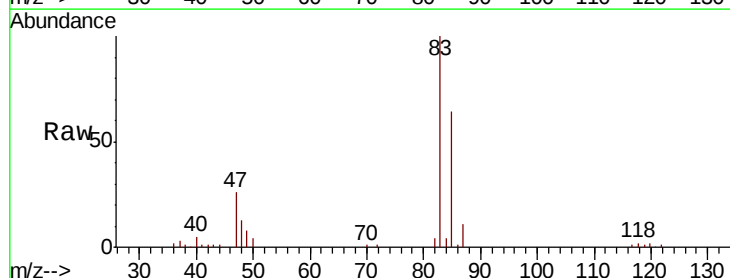
Manual Integrations
APPROVED

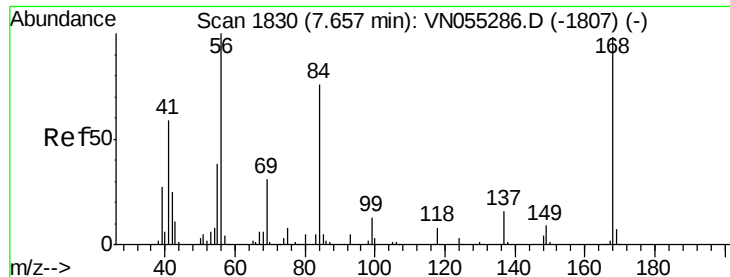
MMDadoda
5/3/2019 1:08:26 PM



#30
Chloroform
Concen: 20.671 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.4	77.2





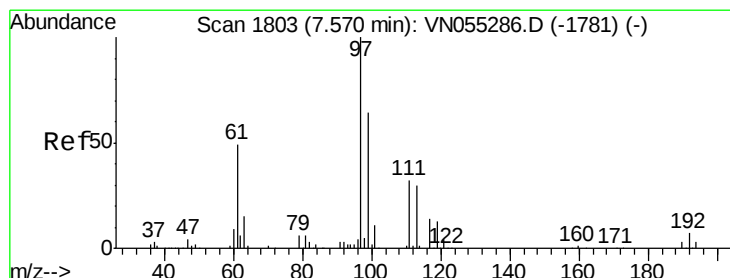
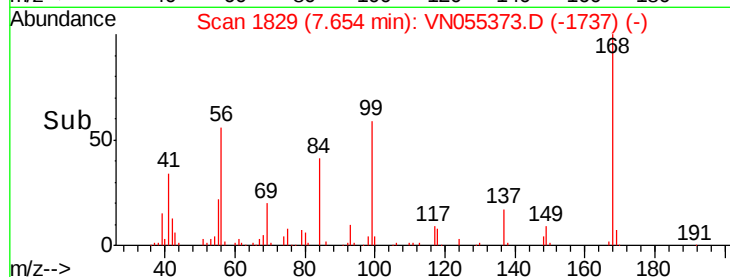
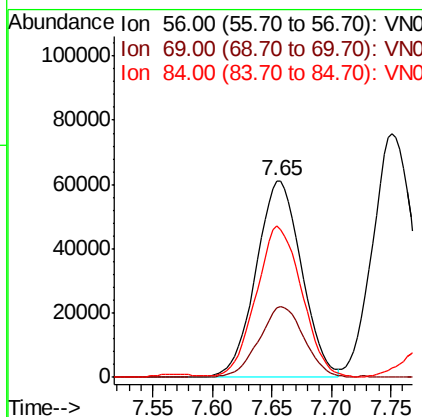
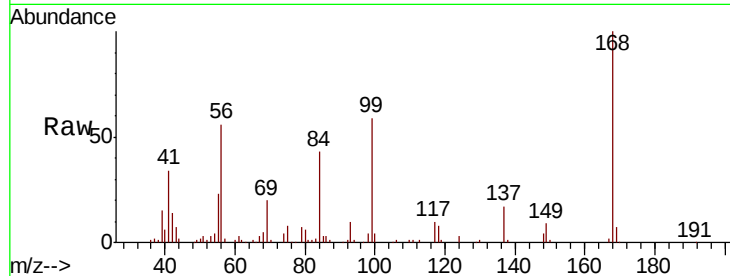
#31
Cyclohexane
Concen: 19.576 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampled :
VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
56	100		
69	35.2	25.2	37.8
84	75.6	61.1	91.7

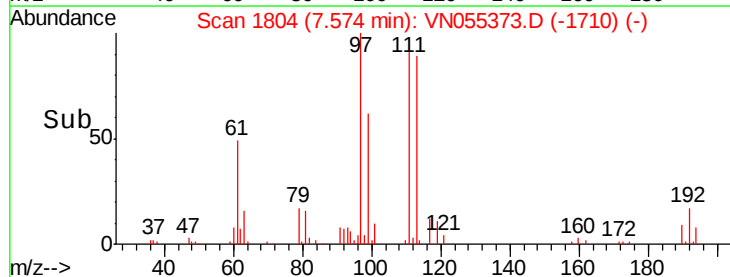
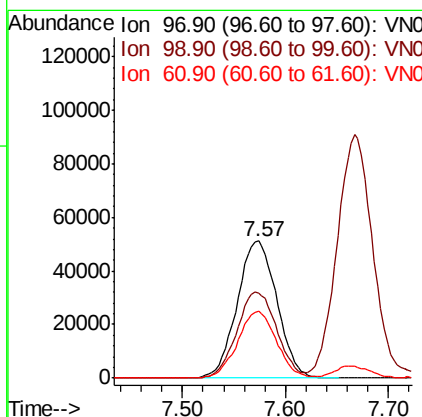
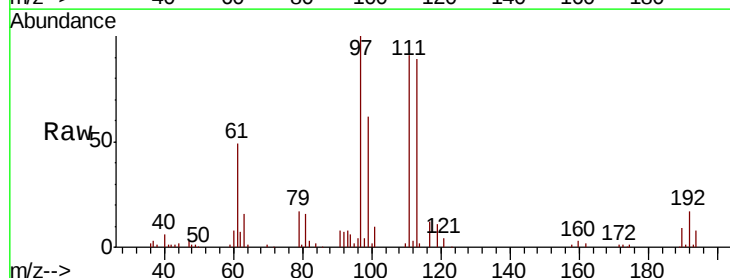
Manual Integrations
APPROVED

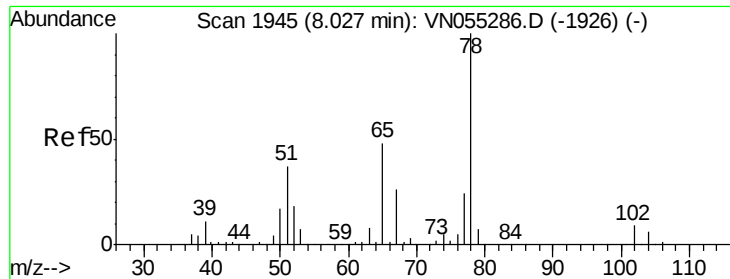
MMDadoda
5/3/2019 1:08:26 PM



#32
1,1,1-Trichloroethane
Concen: 20.483 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.8	77.8
61	47.7	39.0	58.6





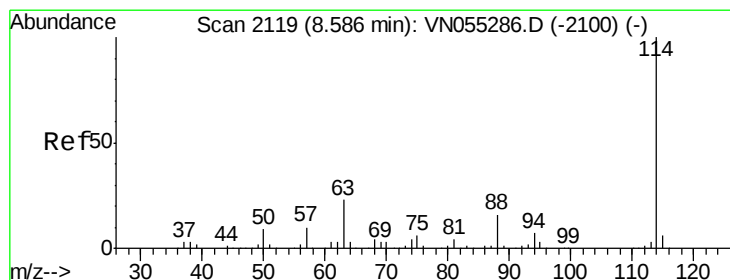
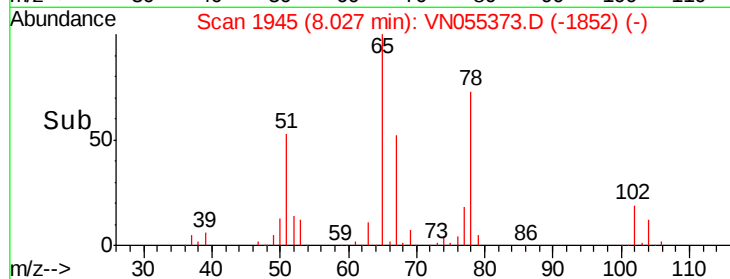
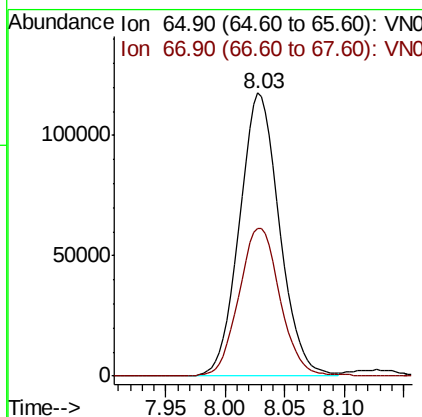
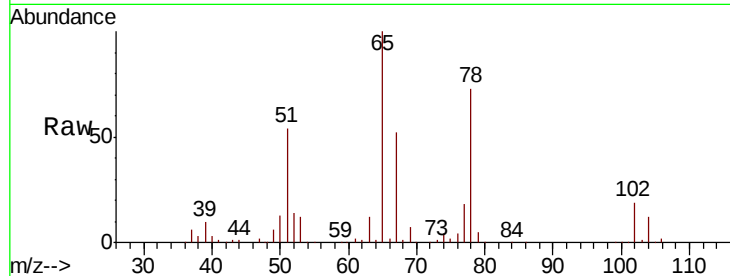
#33
 1,2-Dichloroethane-d4
 Concen: 52.055 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0502MBSD02

Tgt Ion: 65 Resp: 273924
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 106.8

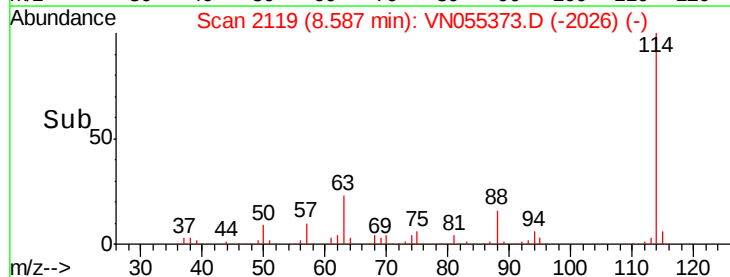
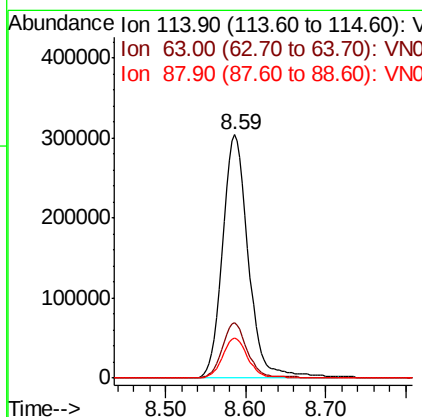
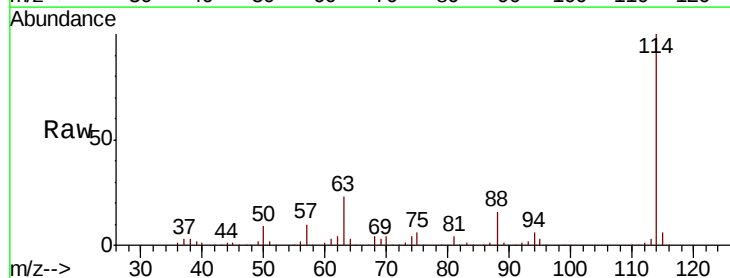
Manual Integrations
 APPROVED

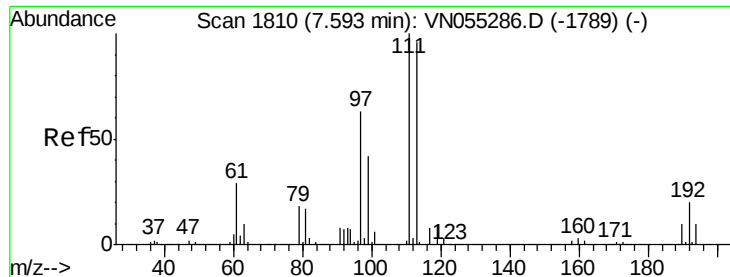
MMDadoda
 5/3/2019 1:08:26 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion: 114 Resp: 676499
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 45.2
 88 16.4 0.0 31.6





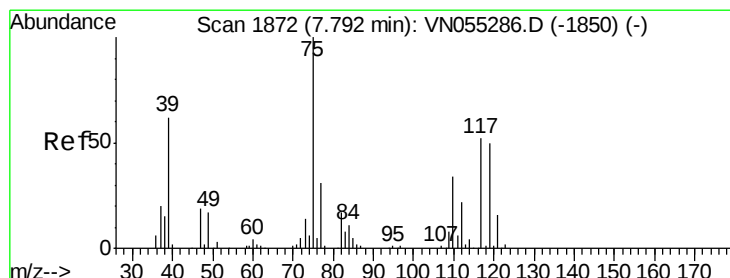
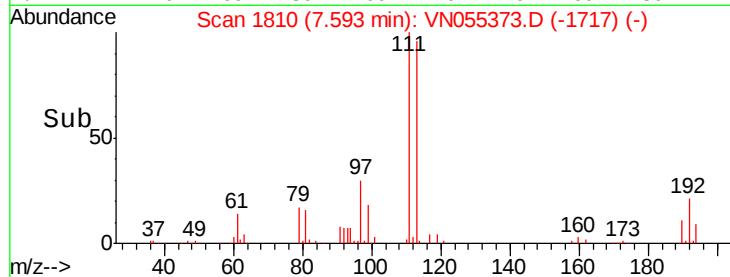
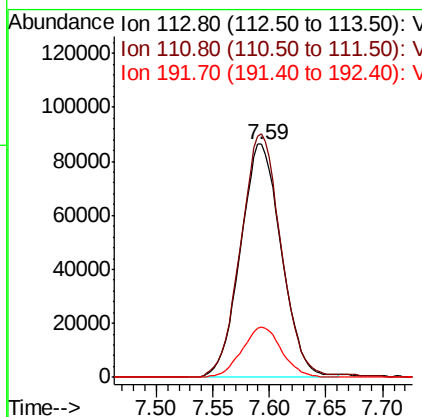
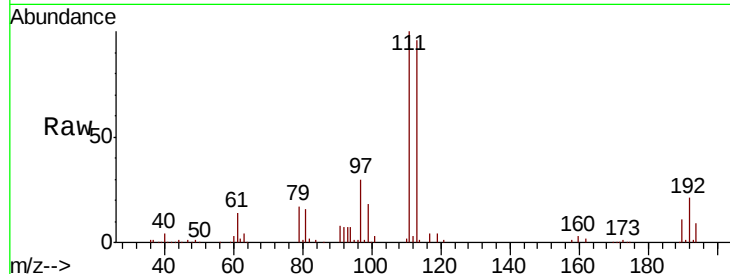
#35
 Dibromofluoromethane
 Concen: 48.952 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	217364		
111	103.1	82.3	123.5	
192	20.9	17.0	25.6	

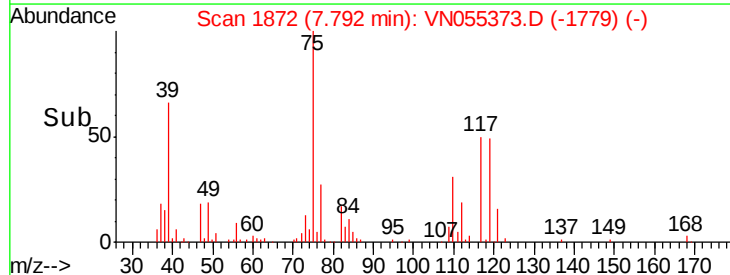
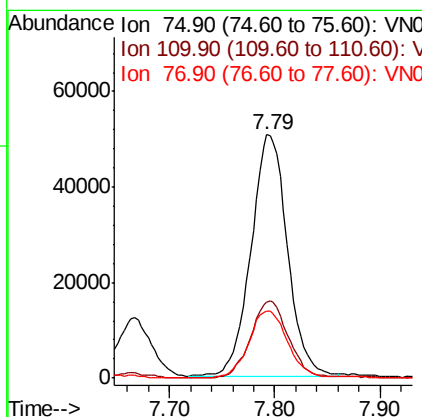
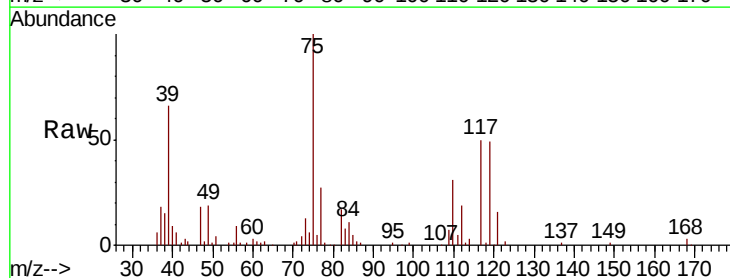
Manual Integrations
 APPROVED

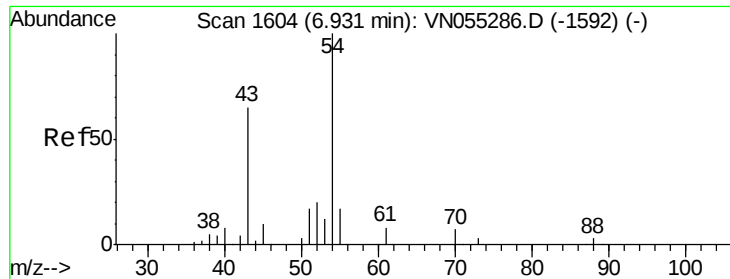
MMDadoda
 5/3/2019 1:08:26 PM



#36
 1,1-Dichloropropene
 Concen: 18.749 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	121488		
110	33.2	16.8	50.4	
77	29.8	25.0	37.6	





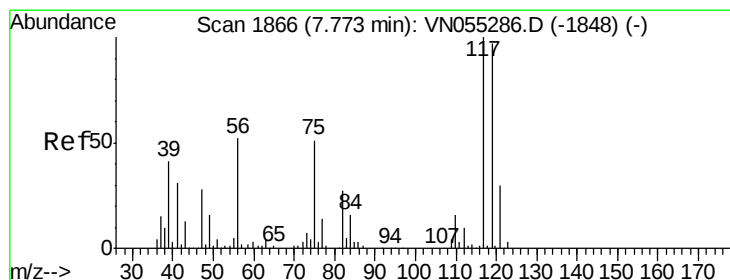
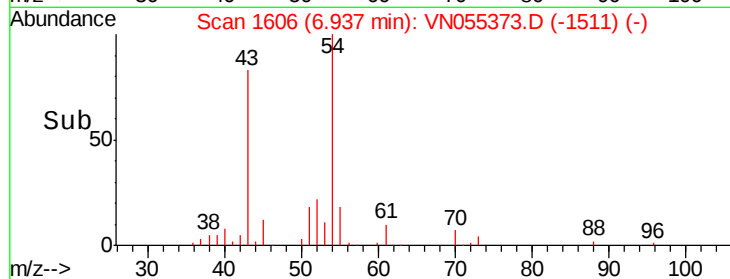
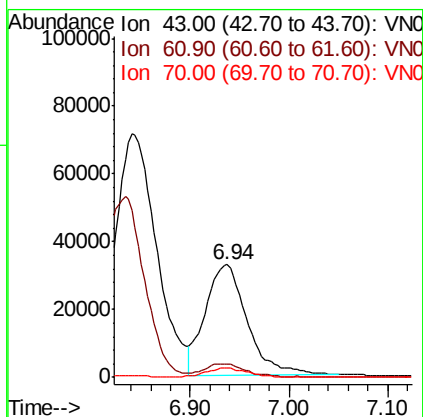
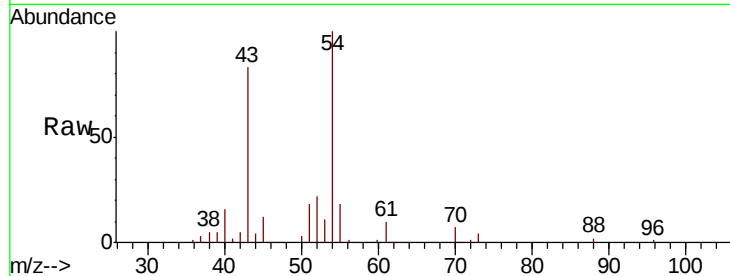
#37
Ethyl Acetate
Concen: 19.706 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.01 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleID :
VN0502MBSD02

Tgt Ion: 43 Resp: 97863
Ion Ratio Lower Upper
43 100
61 11.0 10.4 15.6
70 8.1 6.6 10.0

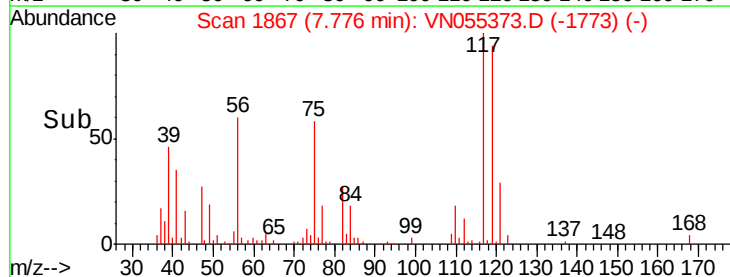
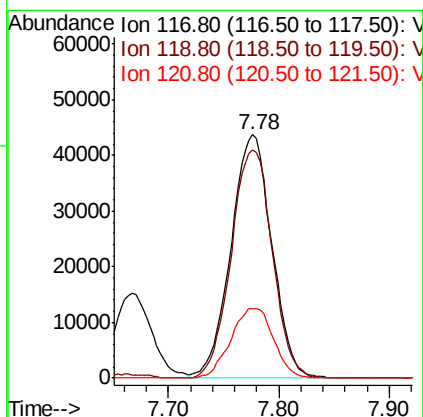
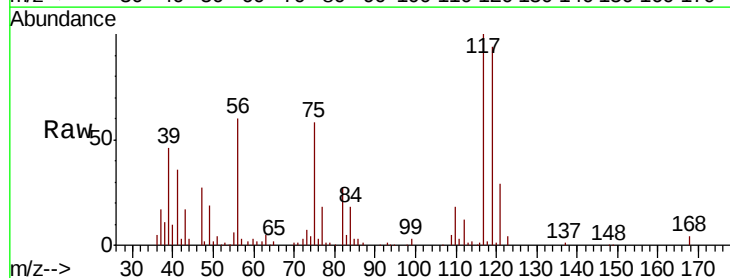
Manual Integrations
APPROVED

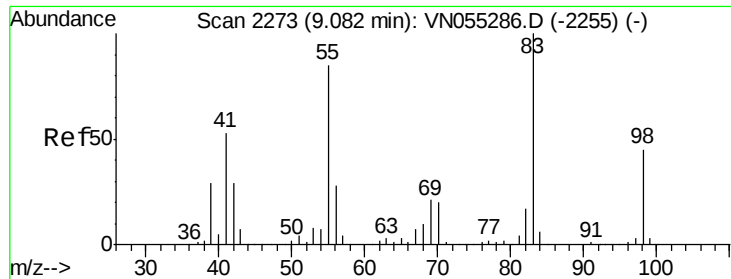
MMDadoda
5/3/2019 1:08:26 PM



#38
Carbon Tetrachloride
Concen: 17.955 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion: 117 Resp: 112232
Ion Ratio Lower Upper
117 100
119 93.8 77.0 115.6
121 28.6 23.8 35.8





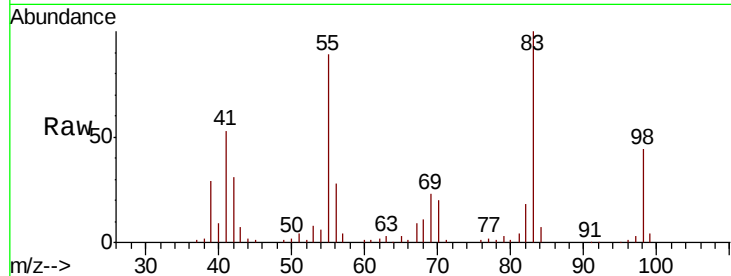
#39
Methylcyclohexane
Concen: 18.098 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

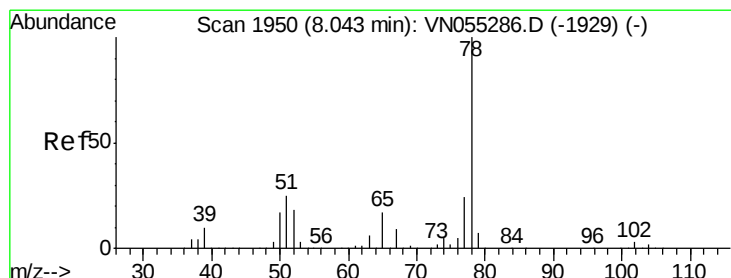
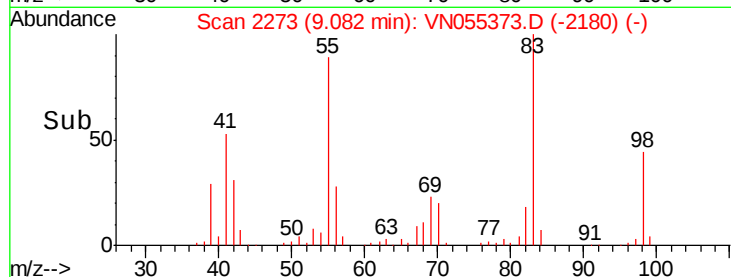
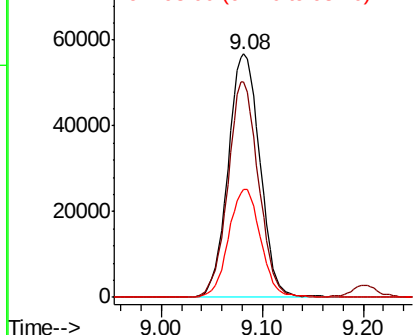
Tgt Ion	Ratio	Lower	Upper
83	100		
55	88.6	67.8	101.6
98	44.5	36.2	54.4

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM

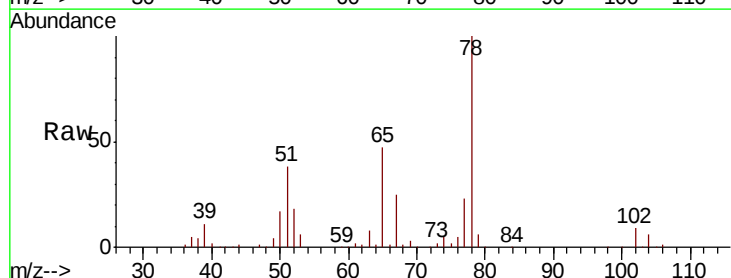


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

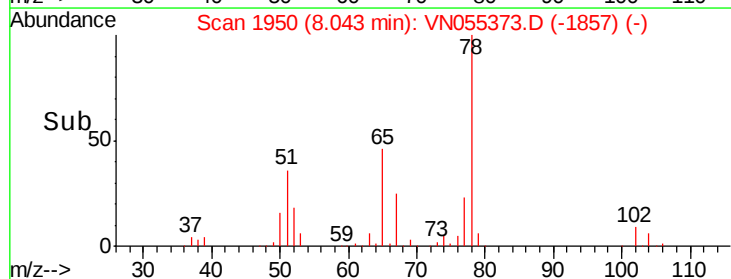
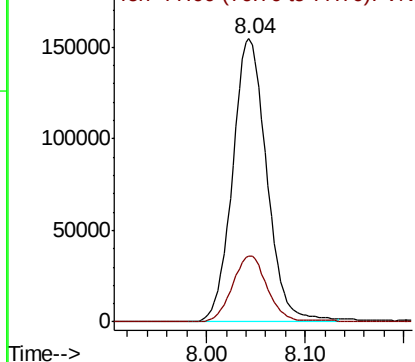


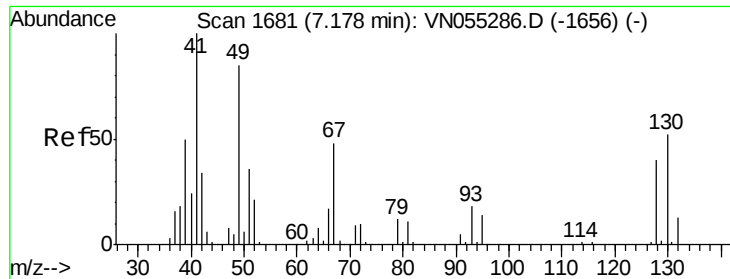
#40
Benzene
Concen: 19.490 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6



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





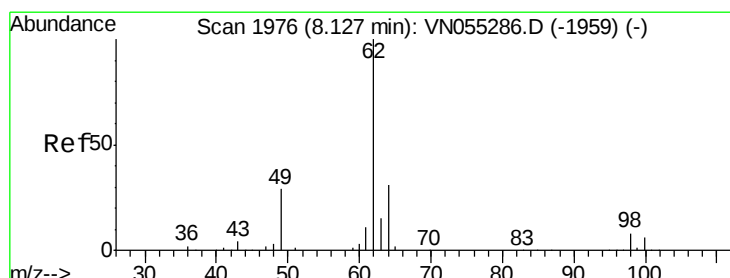
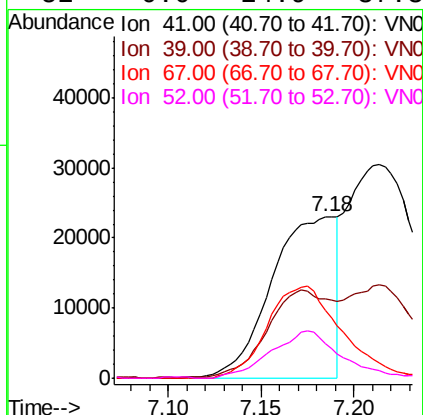
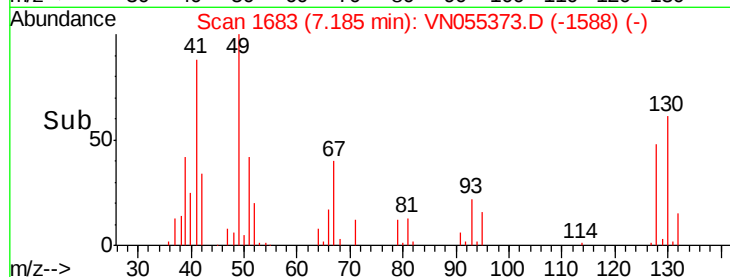
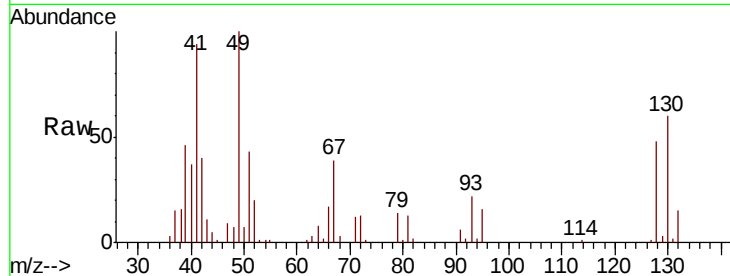
#41
Methacrylonitrile
Concen: 21.471 ug/l m
RT: 7.18 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
41	100		
39	0.0	48.5	72.7#
67	0.0	54.9	82.3#
52	0.0	24.9	37.3#

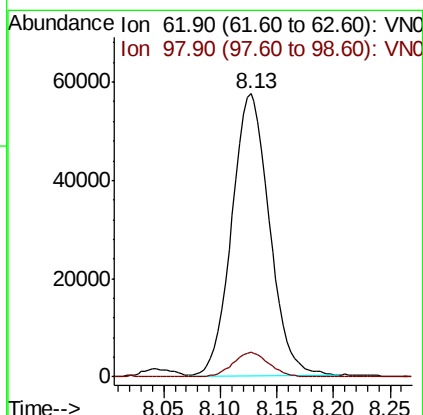
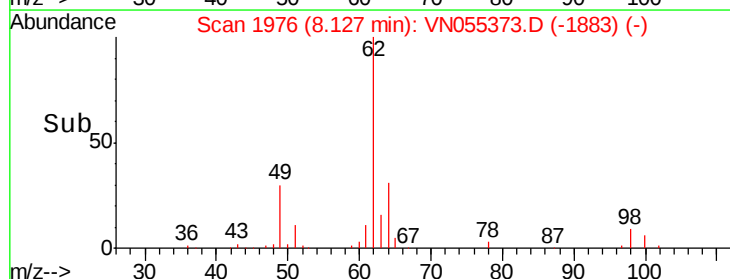
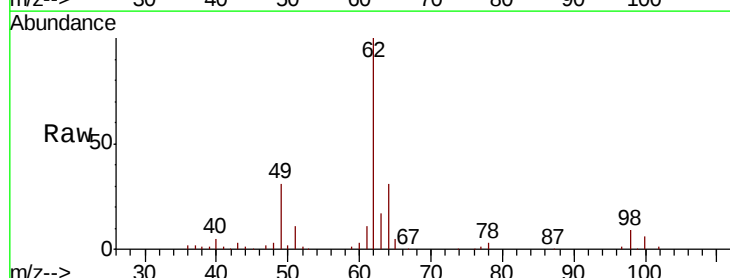
Manual Integrations
APPROVED

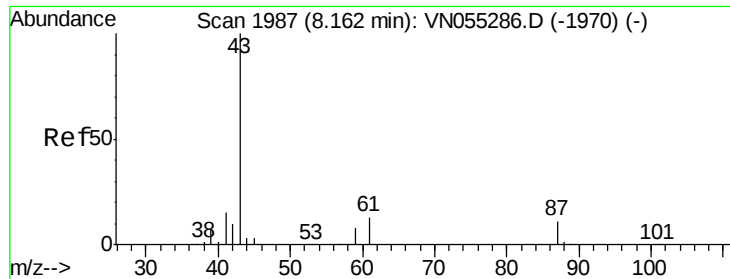
MMDadoda
5/3/2019 1:08:26 PM



#42
1,2-Dichloroethane
Concen: 19.642 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	16.4





#43

Isopropyl Acetate

Concen: 21.466 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

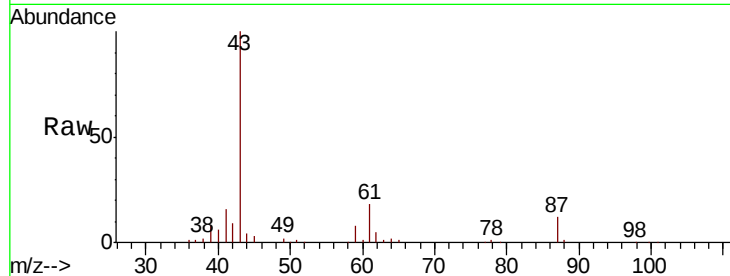
ClientSampleId :

VN0502MBSD02

Tgt Ion:	43	Resp:	171321
Ion Ratio	Lower	Upper	
43	100		
61	17.6	20.8	31.2#
87	10.6	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM

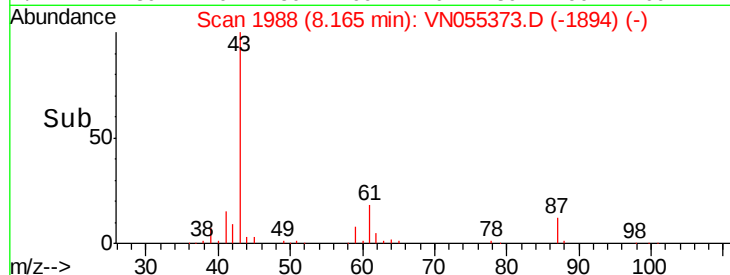


Abundance Ion 43.00 (42.70 to 43.70): VN055373.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055373.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055373.D (-1970) (-)

Time-->

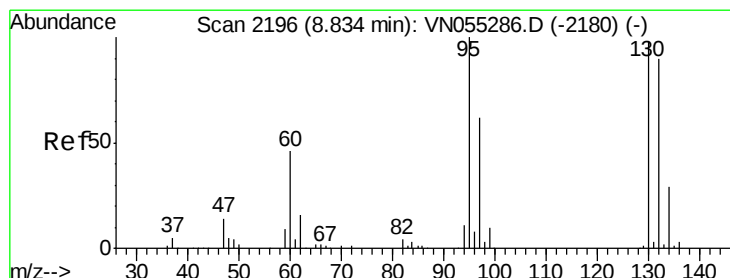


Abundance Ion 43.00 (42.70 to 43.70): VN055373.D (-1894) (-)

Ion 61.00 (60.70 to 61.70): VN055373.D (-1894) (-)

Ion 87.00 (86.70 to 87.70): VN055373.D (-1894) (-)

Time-->



#44

Trichloroethene

Concen: 19.396 ug/l

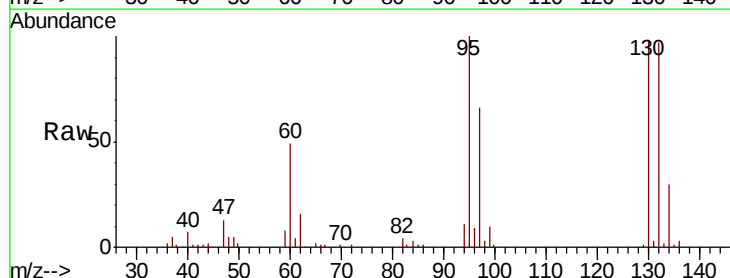
RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

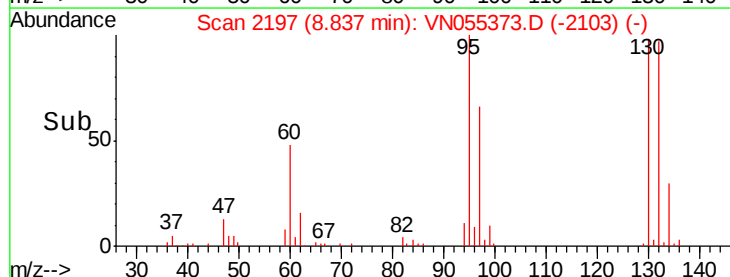
Tgt Ion:	130	Resp:	94451
Ion Ratio	Lower	Upper	
130	100		
95	101.9	0.0	203.4



Abundance Ion 129.80 (129.50 to 130.50): VN055373.D (-2180) (-)

Ion 94.90 (94.60 to 95.60): VN055373.D (-2180) (-)

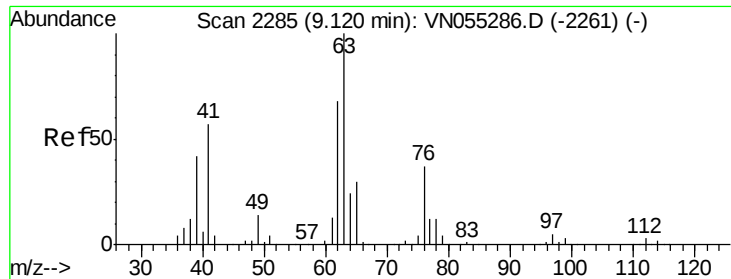
Time-->



Abundance Ion 129.80 (129.50 to 130.50): VN055373.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN055373.D (-2103) (-)

Time-->



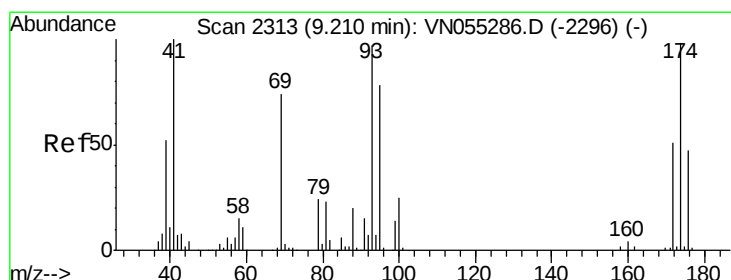
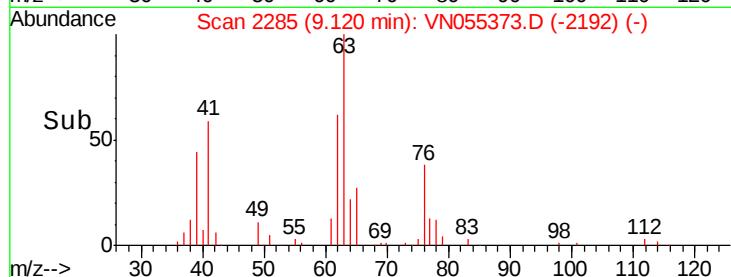
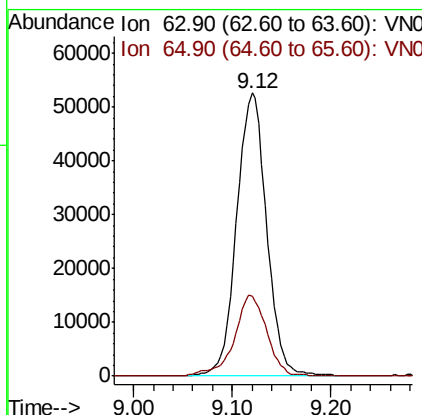
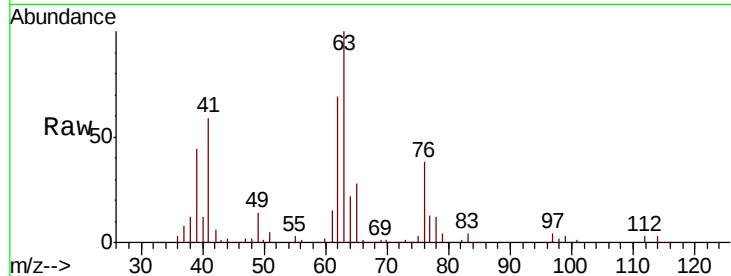
#45
 1,2-Dichloropropane
 Concen: 20.125 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion: 63 Resp: 110874
 Ion Ratio Lower Upper
 63 100
 65 28.1 23.9 35.9

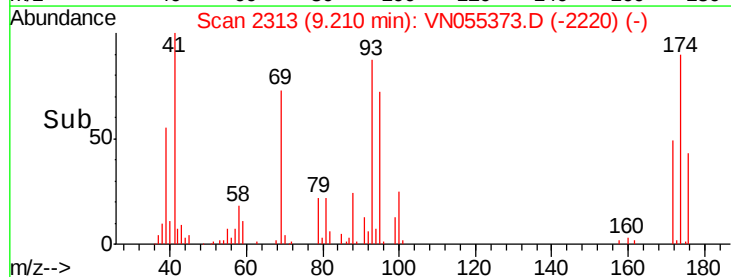
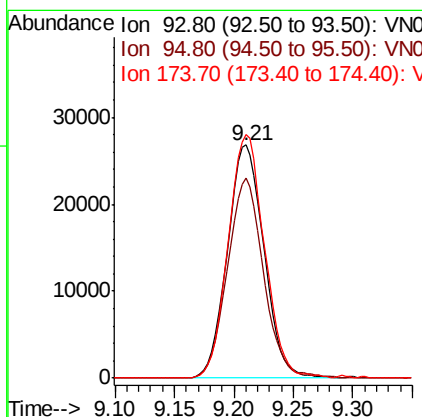
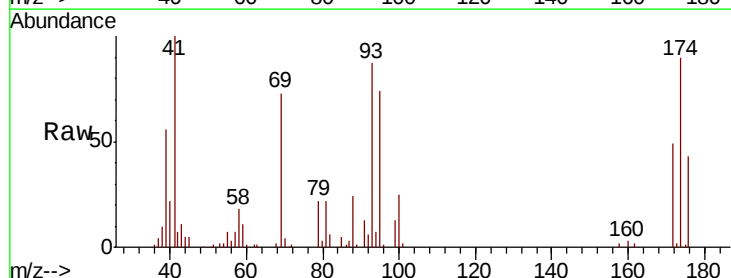
Manual Integrations
 APPROVED

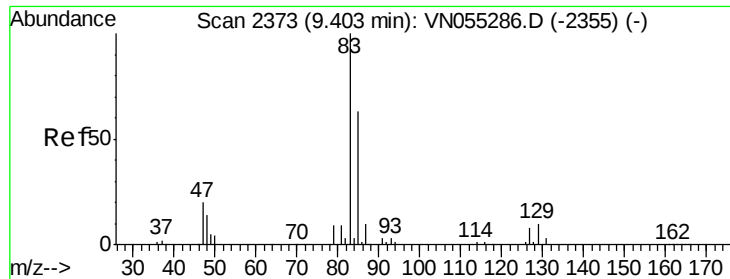
MMDadoda
 5/3/2019 1:08:26 PM



#46
 Dibromomethane
 Concen: 18.977 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion: 93 Resp: 57147
 Ion Ratio Lower Upper
 93 100
 95 84.7 65.7 98.5
 174 103.5 81.5 122.3





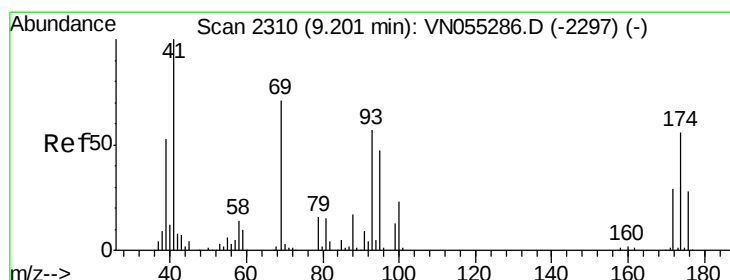
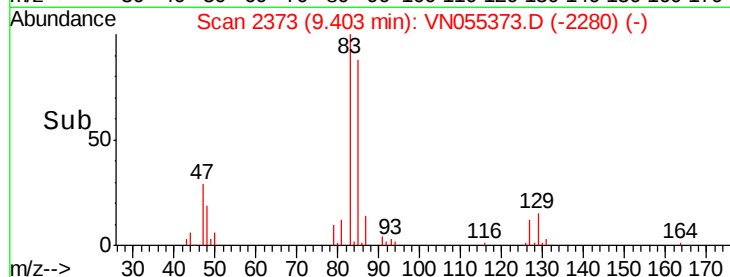
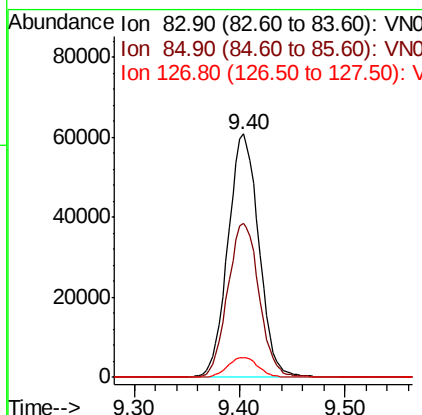
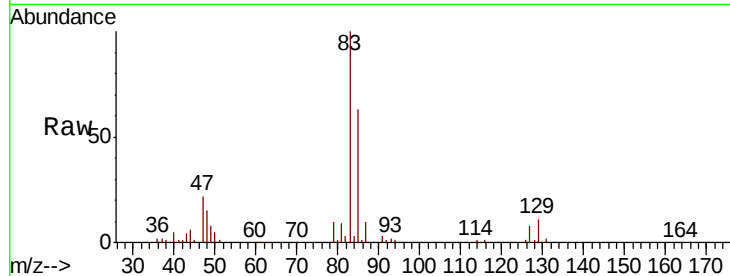
#47
Bromodichloromethane
Concen: 19.122 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.1	75.1
127	8.3	6.7	10.1

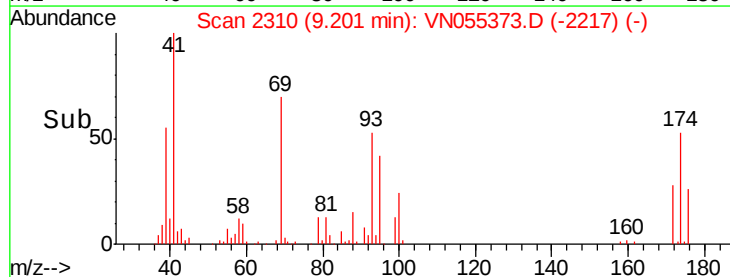
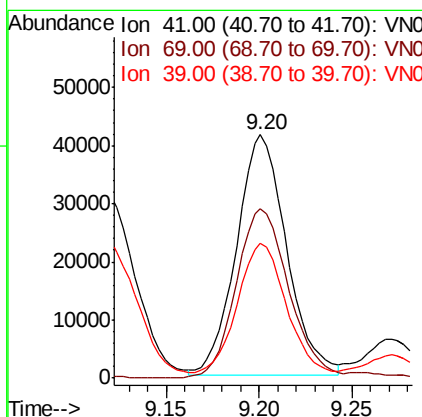
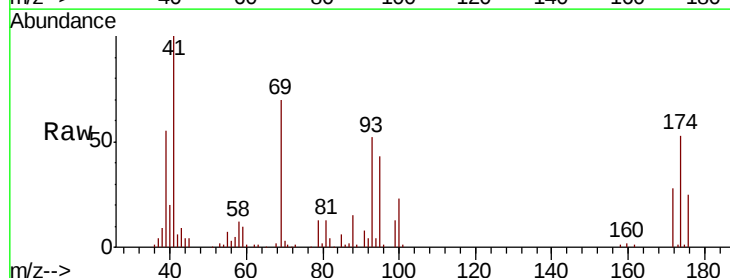
Manual Integrations
APPROVED

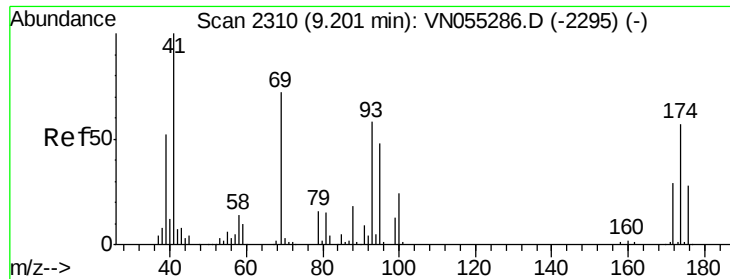
MMDadoda
5/3/2019 1:08:26 PM



#48
Methyl methacrylate
Concen: 19.930 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
41	100		
69	73.7	58.6	87.8
39	55.6	43.8	65.6





#49

1,4-Dioxane

Concen: 381.006 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.01 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

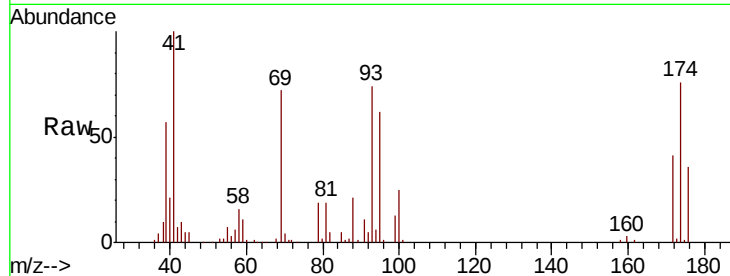
ClientSampleId :

VN0502MBSD02

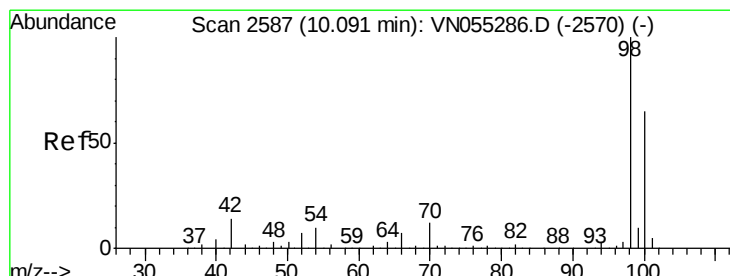
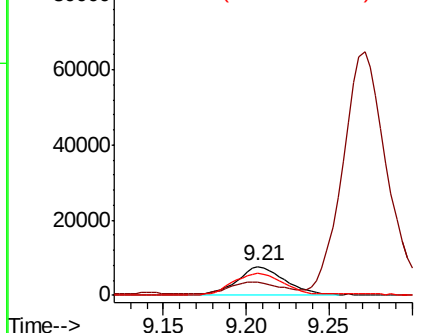
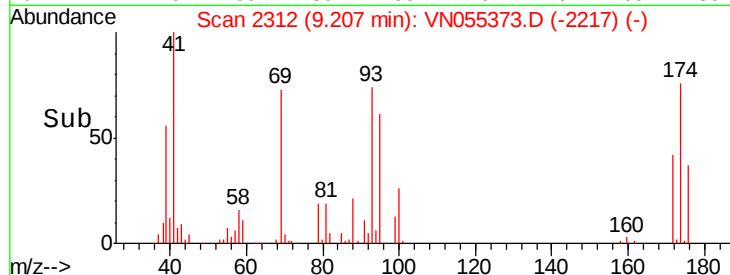
Tgt Ion:	88	Resp:	15453
Ion	Ratio	Lower	Upper
88	100		
43	44.0	33.3	49.9
58	81.6	62.7	94.1

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM



Abundance Ion 88.00 (87.70 to 88.70): VN055373.D (-2217) (-)



#50

Toluene-d8

Concen: 49.197 ug/l

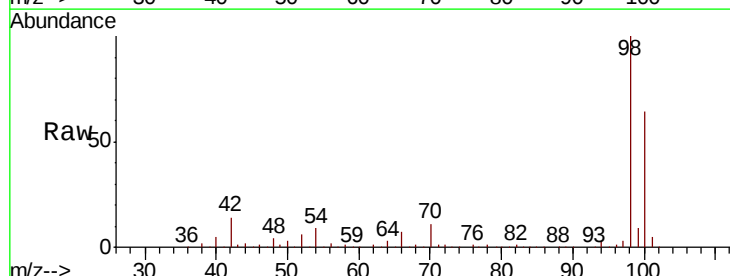
RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

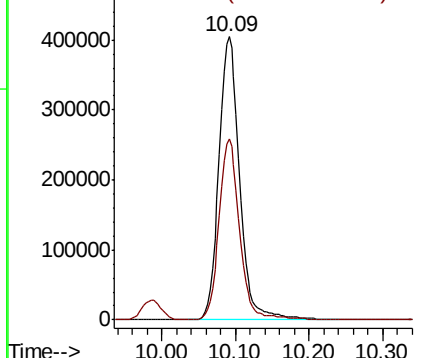
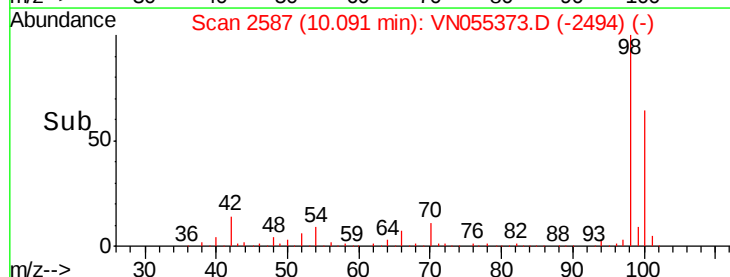
Lab File: VN055373.D

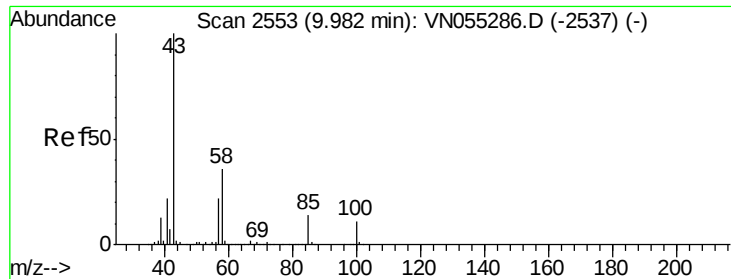
Acq: 3 May 2019 2:47

Tgt Ion:	98	Resp:	788800
Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.7	77.5



Abundance Ion 98.00 (97.70 to 98.70): VN055373.D (-2494) (-)





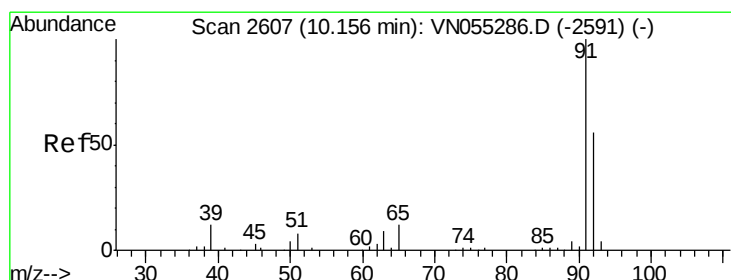
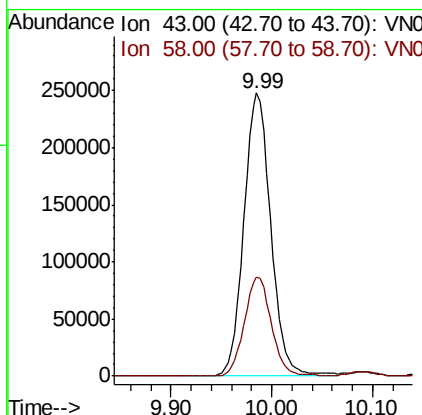
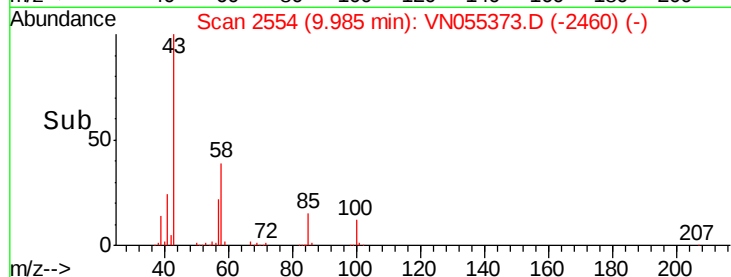
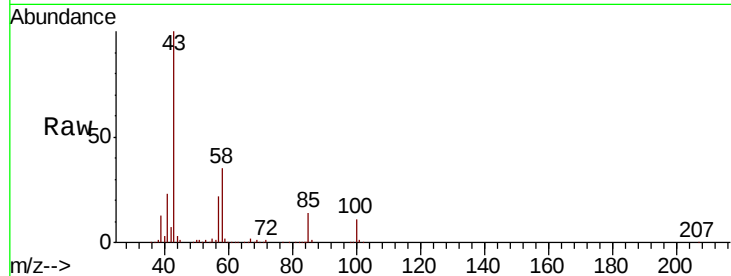
#51
4-Methyl-2-Pentanone
Concen: 101.063 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion: 43 Resp: 454119
Ion Ratio Lower Upper
43 100
58 35.3 28.5 42.7

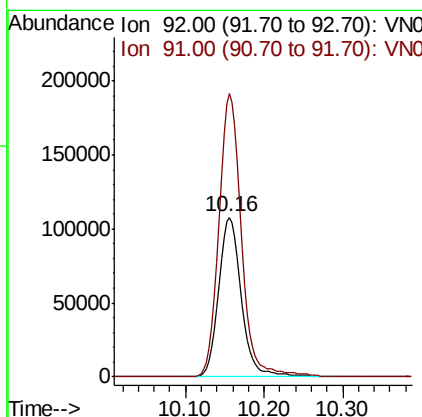
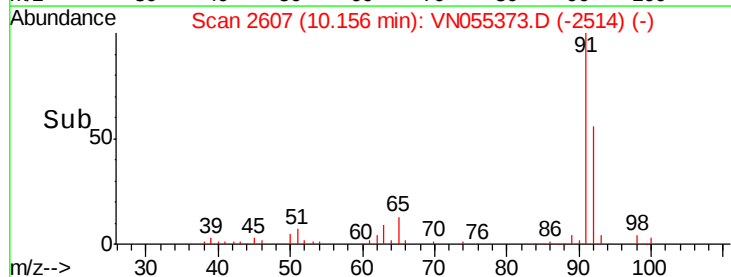
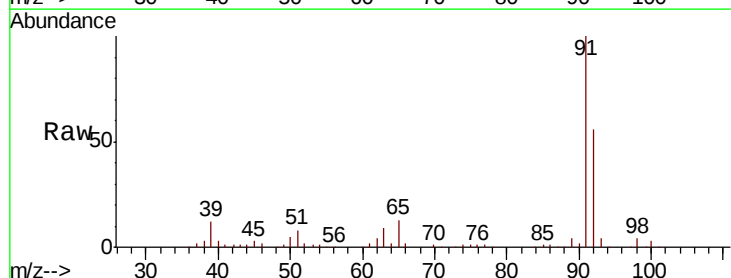
Manual Integrations
APPROVED

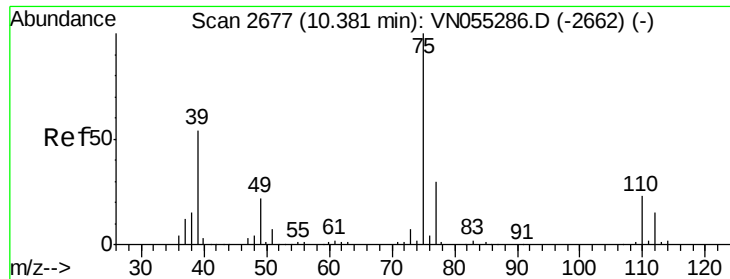
MMDadoda
5/3/2019 1:08:26 PM



#52
Toluene
Concen: 19.622 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion: 92 Resp: 215067
Ion Ratio Lower Upper
92 100
91 175.2 140.1 210.1





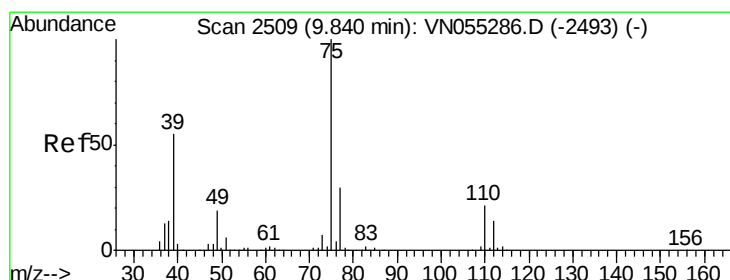
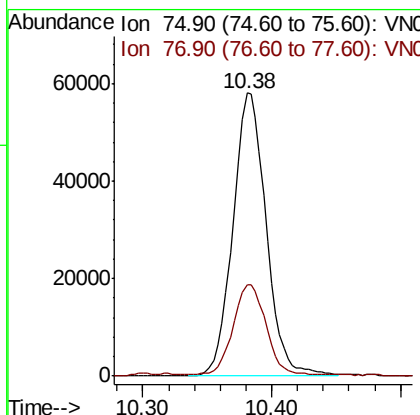
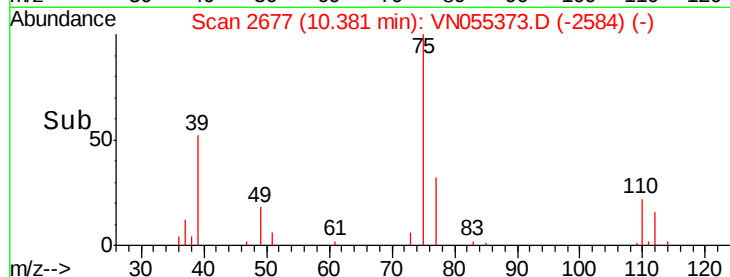
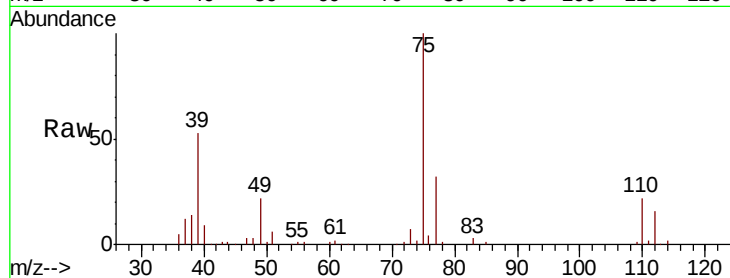
#53
 t-1,3-Dichloropropene
 Concen: 18.531 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion: 75 Resp: 103927
 Ion Ratio Lower Upper
 75 100
 77 31.9 24.4 36.6

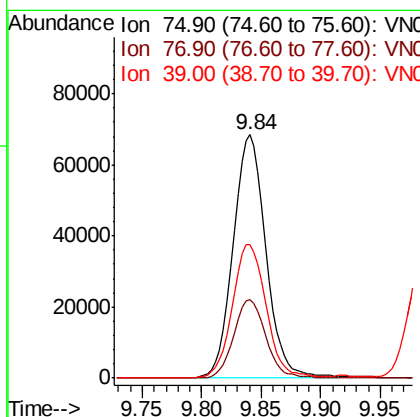
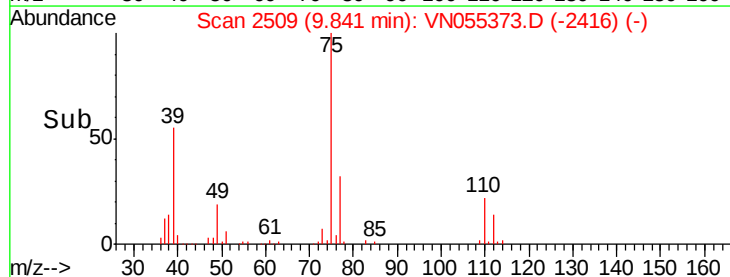
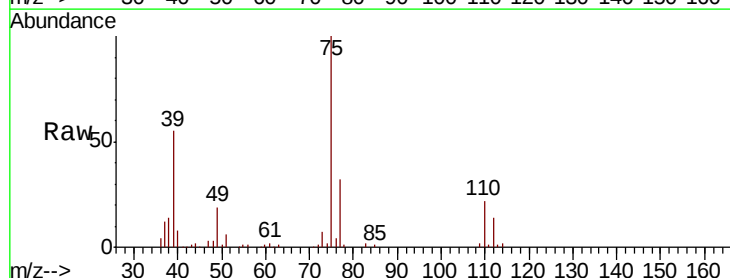
Manual Integrations
 APPROVED

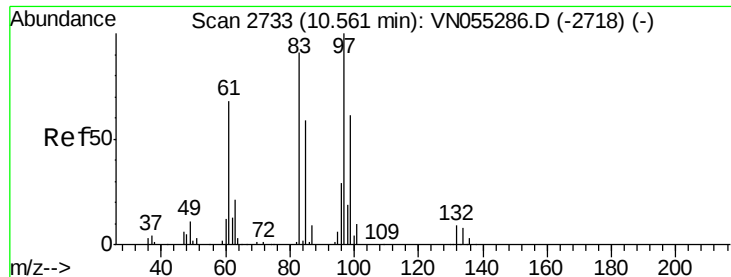
MMDadoda
 5/3/2019 1:08:26 PM



#54
 cis-1,3-Dichloropropene
 Concen: 18.727 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion: 75 Resp: 130950
 Ion Ratio Lower Upper
 75 100
 77 32.1 24.2 36.2
 39 54.4 44.2 66.2





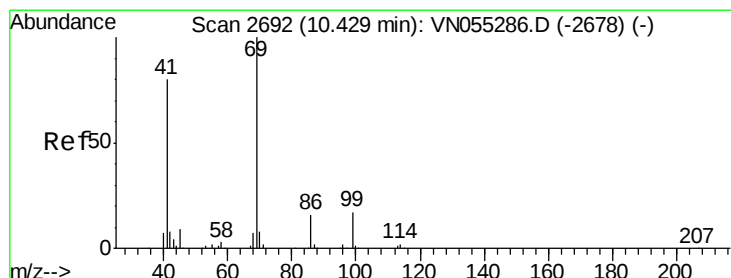
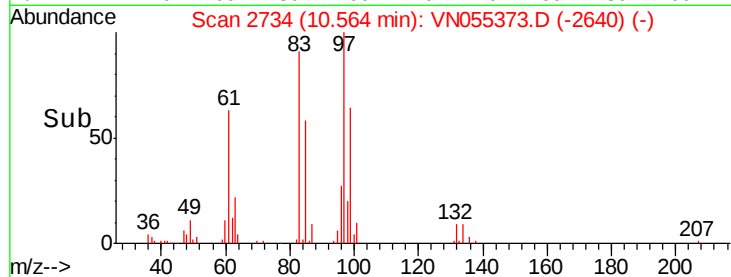
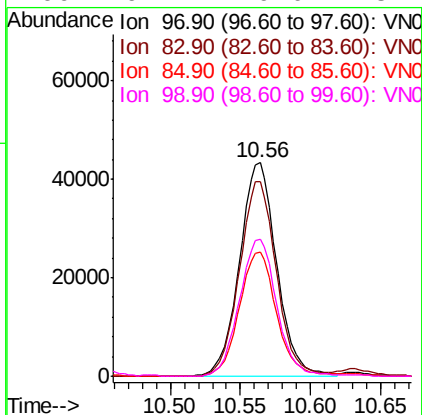
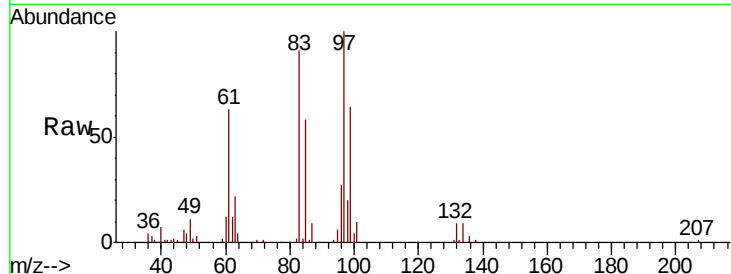
#55
 1,1,2-Trichloroethane
 Concen: 19.683 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion:	97	Resp:	80111
Ion	Ratio	Lower	Upper
97	100		
83	90.8	72.8	109.2
85	58.3	47.0	70.6
99	64.2	49.0	73.4

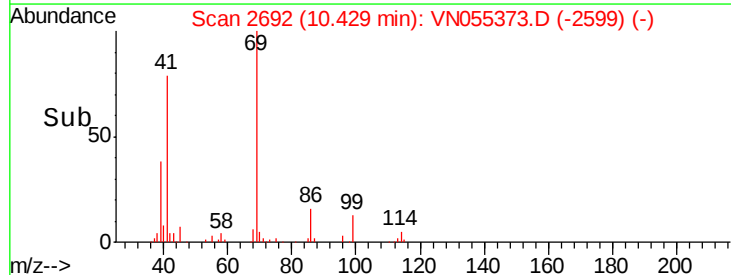
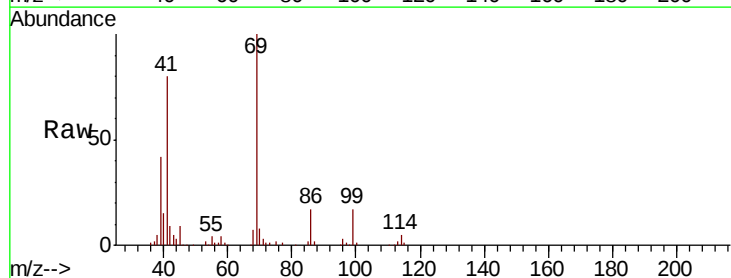
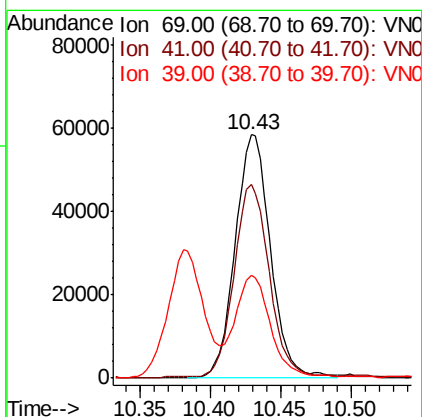
Manual Integrations
 APPROVED

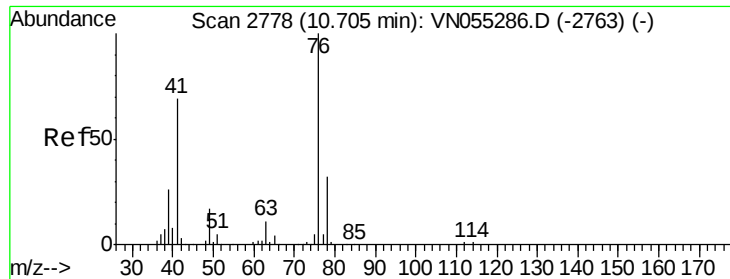
MMDadoda
 5/3/2019 1:08:26 PM



#56
 Ethyl methacrylate
 Concen: 20.487 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion:	69	Resp:	102628
Ion	Ratio	Lower	Upper
69	100		
41	78.5	62.7	94.1
39	42.3	32.0	48.0





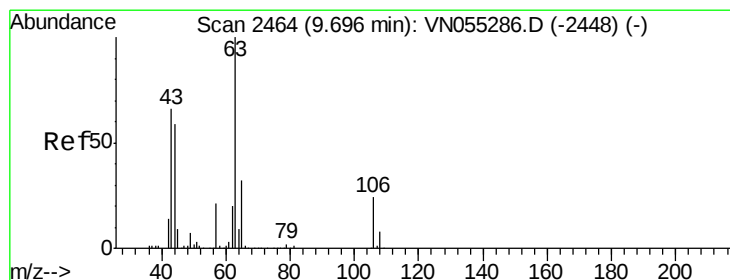
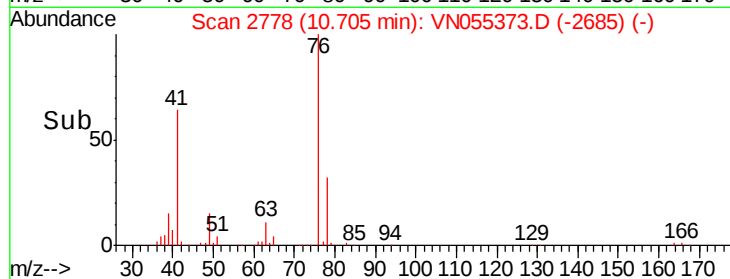
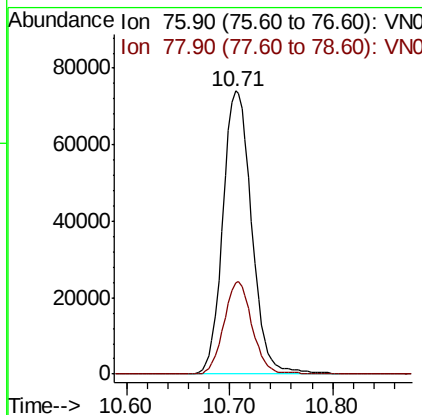
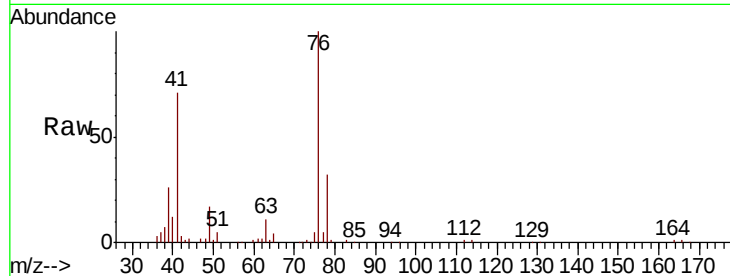
#57
 1,3-Dichloropropane
 Concen: 20.238 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion: 76 Resp: 144499
 Ion Ratio Lower Upper
 76 100
 78 32.1 25.6 38.4

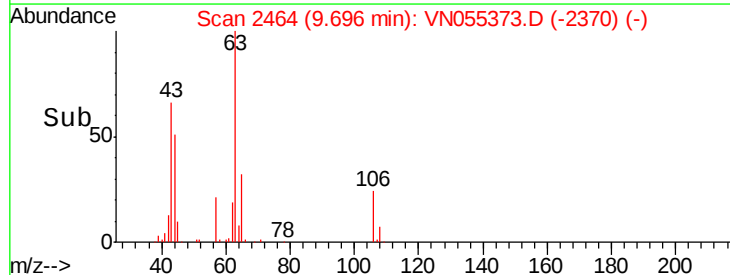
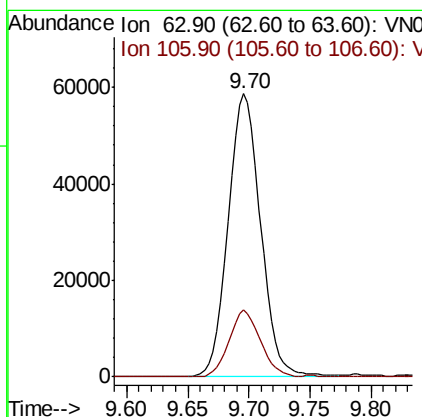
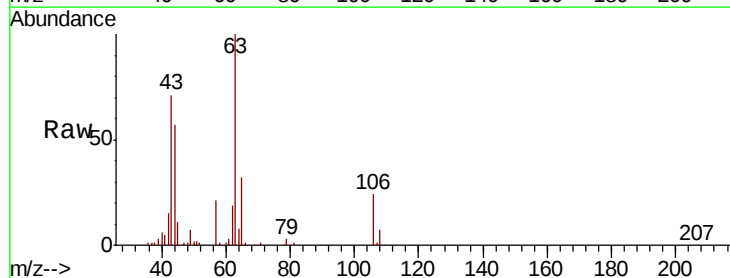
Manual Integrations
 APPROVED

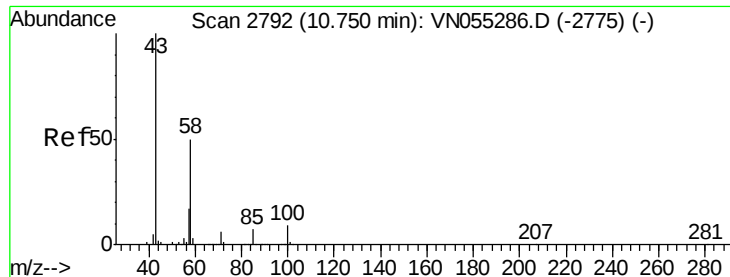
MMDadoda
 5/3/2019 1:08:26 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 79.068 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion: 63 Resp: 109051
 Ion Ratio Lower Upper
 63 100
 106 22.7 19.0 28.4





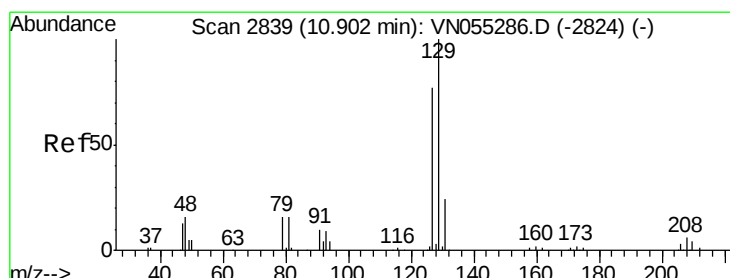
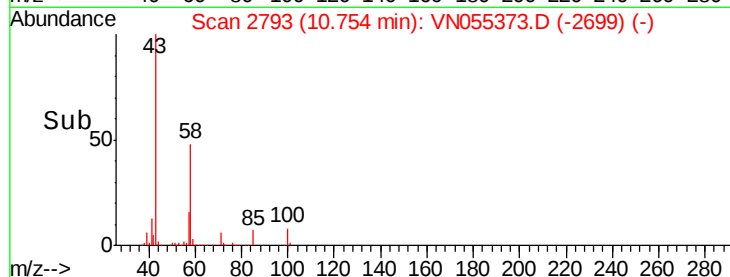
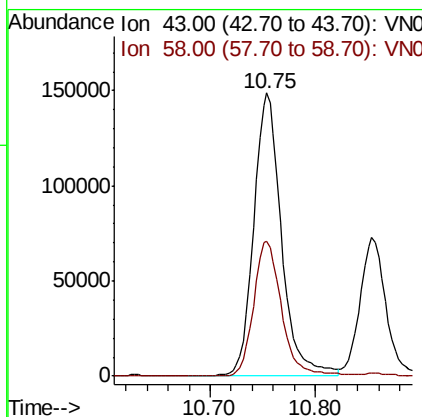
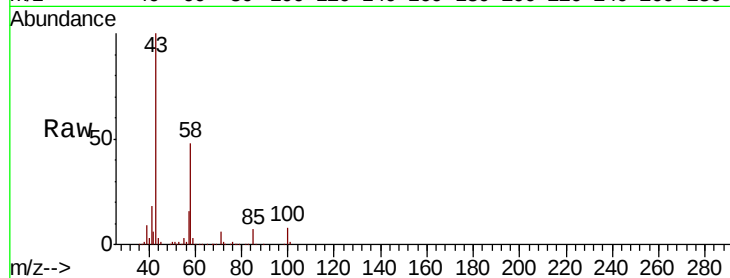
#59
2-Hexanone
Concen: 96.829 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion: 43 Resp: 272234
Ion Ratio Lower Upper
43 100
58 48.5 24.9 74.6

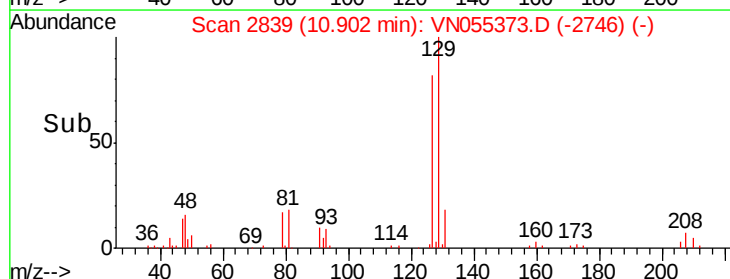
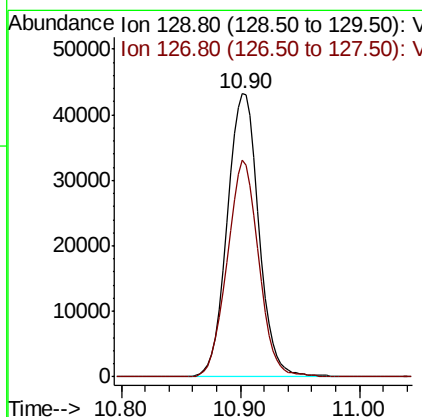
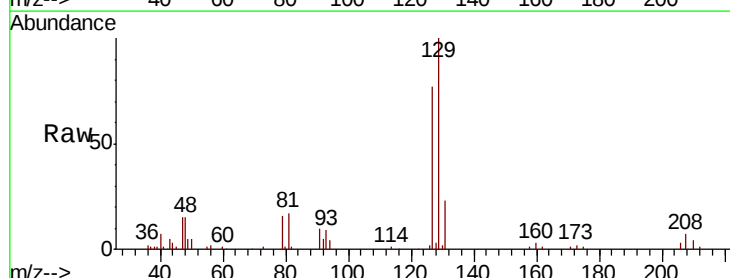
Manual Integrations
APPROVED

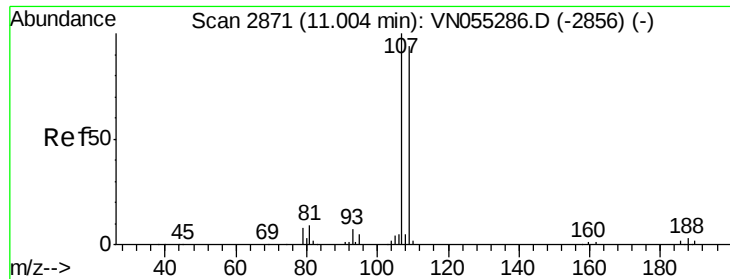
MMDadoda
5/3/2019 1:08:26 PM



#60
Dibromochloromethane
Concen: 19.103 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion: 129 Resp: 79463
Ion Ratio Lower Upper
129 100
127 76.4 38.1 114.5





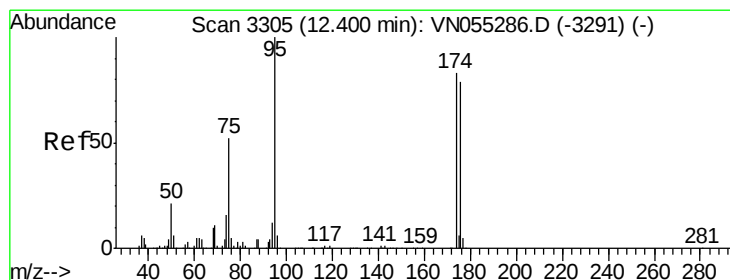
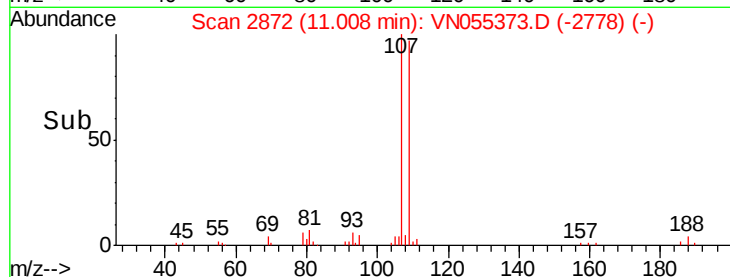
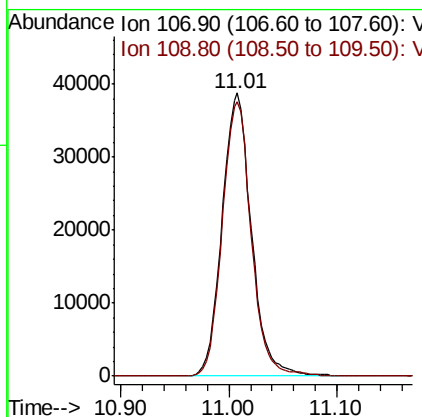
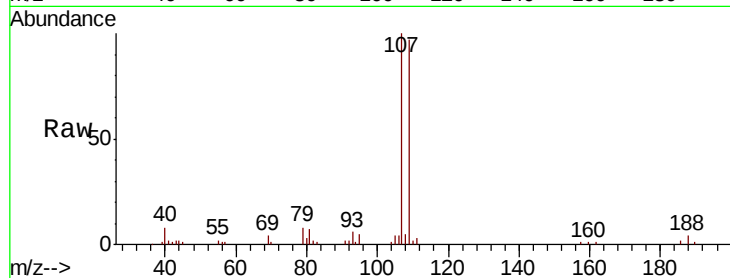
#61
 1,2-Dibromoethane
 Concen: 19.497 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion: 107 Resp: 73343
 Ion Ratio Lower Upper
 107 100
 109 95.5 75.0 112.6

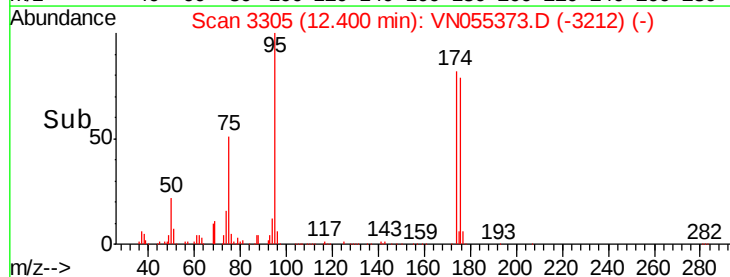
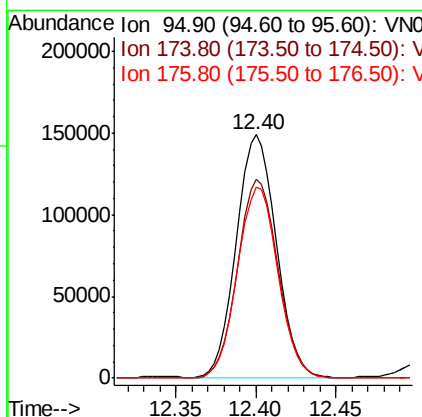
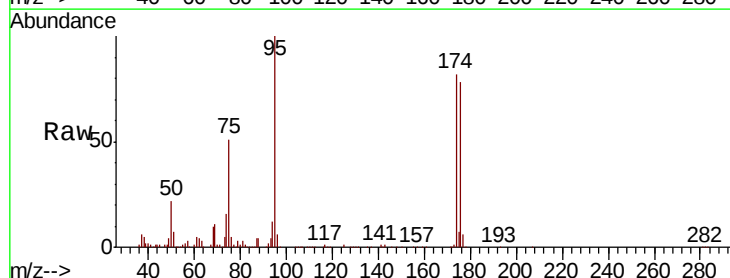
Manual Integrations
 APPROVED

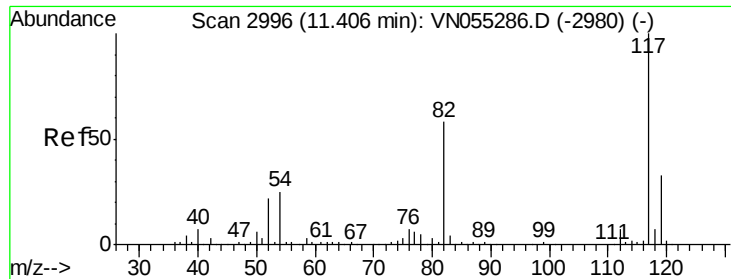
MMDadoda
 5/3/2019 1:08:26 PM



#62
 4-Bromofluorobenzene
 Concen: 50.544 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion: 95 Resp: 253280
 Ion Ratio Lower Upper
 95 100
 174 83.2 0.0 166.6
 176 80.2 0.0 157.8





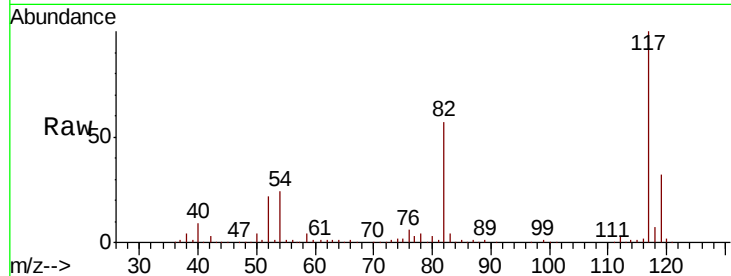
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	563320		
82	56.5	46.2	69.4	
119	32.2	26.6	40.0	

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM

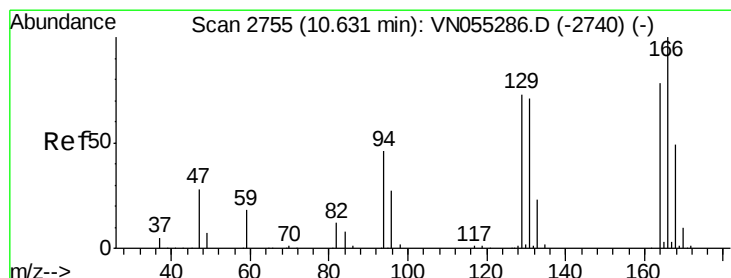
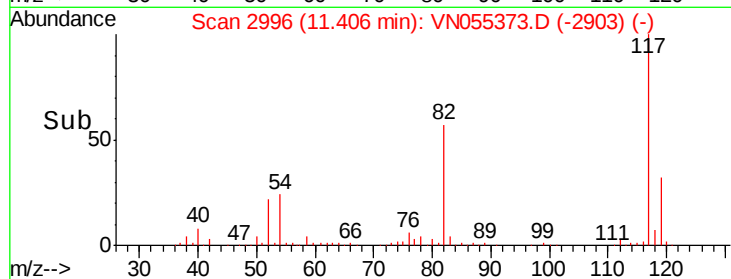
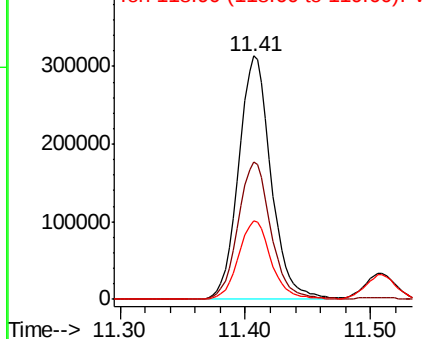


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 20.972 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	96610		
166	130.6	102.3	153.5	
129	93.0	75.0	112.6	
131	88.1	72.7	109.1	

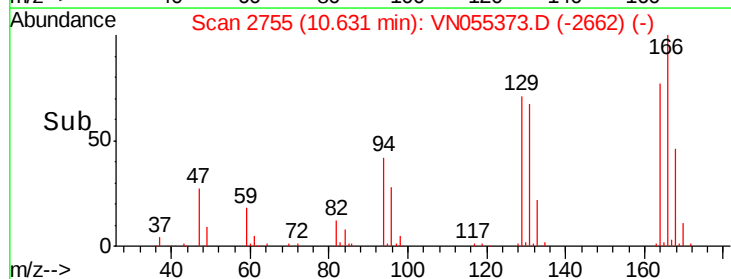
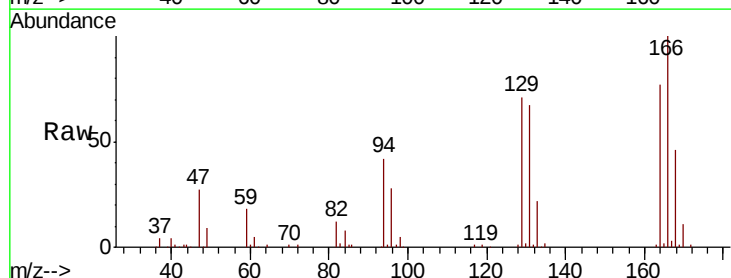
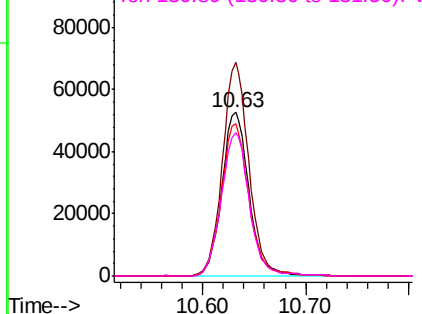
Abundance

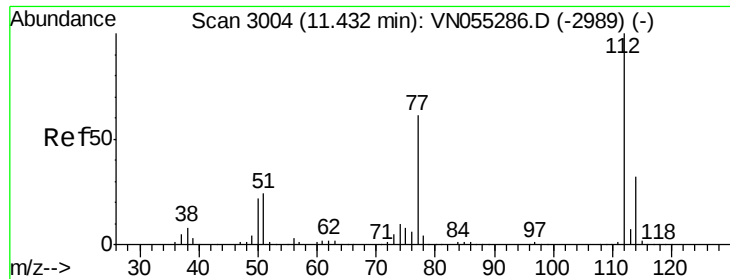
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 19.756 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

ClientSampled :

VN0502MBSD02

Tgt Ion:112 Resp: 217582

Ion Ratio Lower Upper

112 100

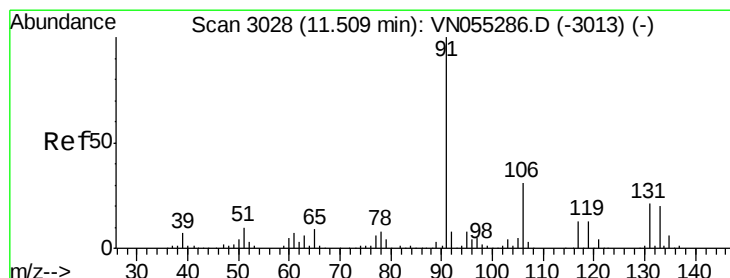
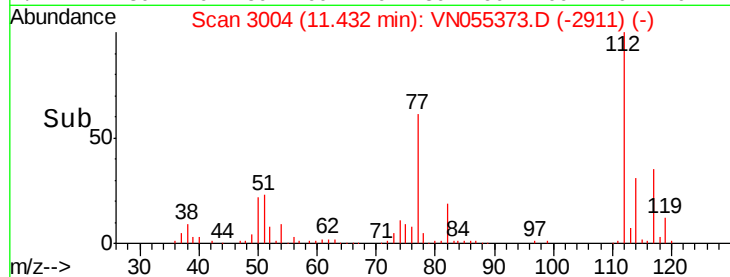
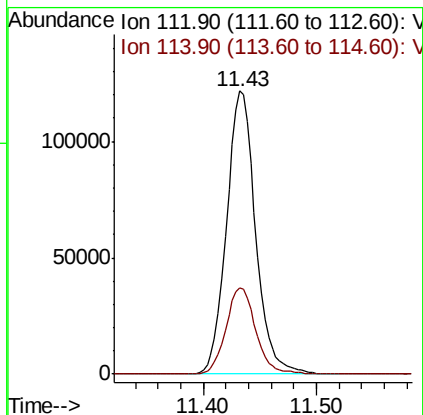
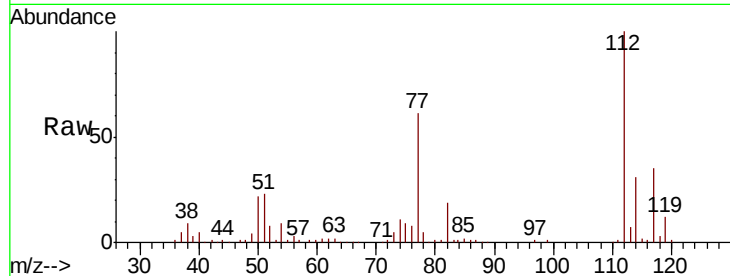
114 30.5 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:26 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 19.495 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

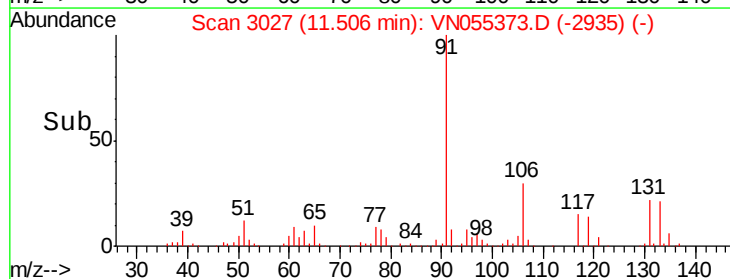
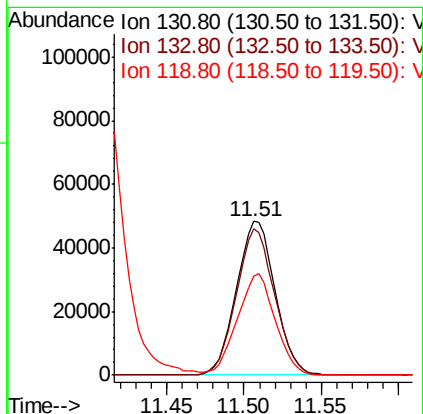
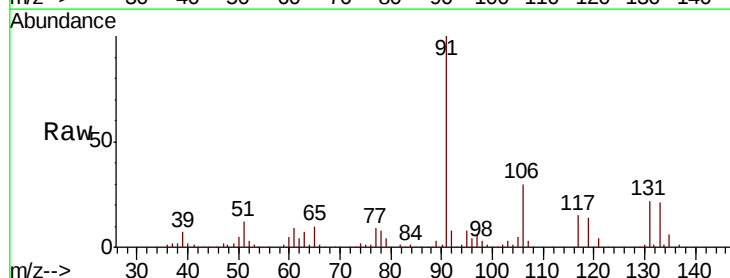
Tgt Ion:131 Resp: 84072

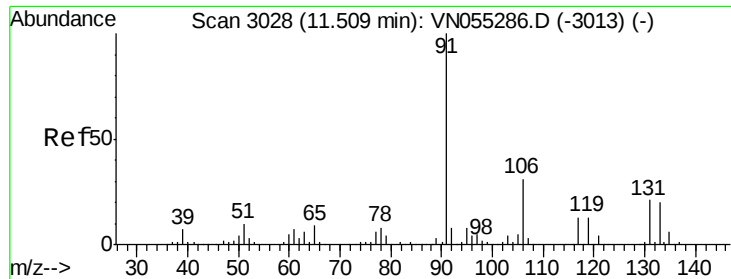
Ion Ratio Lower Upper

131 100

133 94.2 47.5 142.6

119 64.7 32.7 98.1





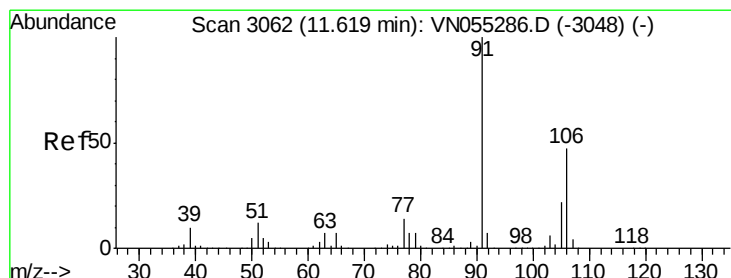
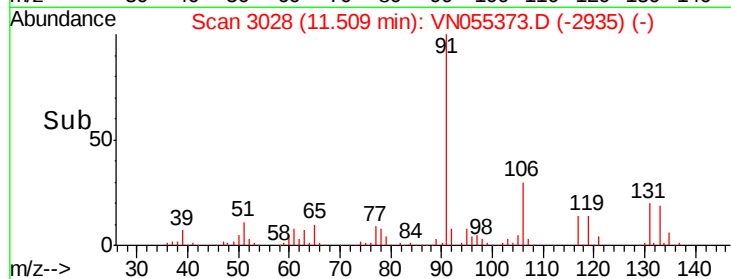
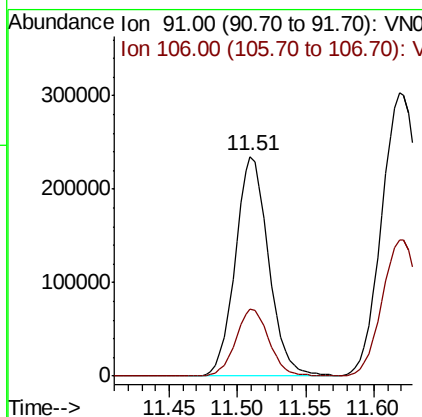
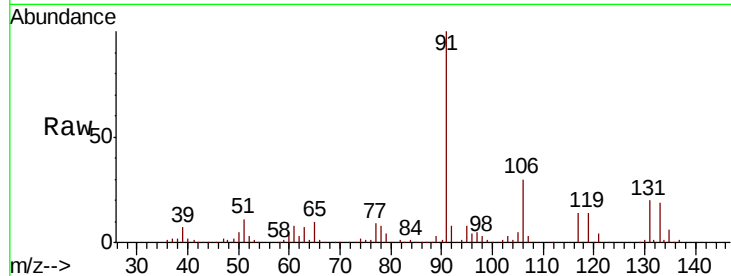
#67
Ethyl Benzene
Concen: 20.022 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampled :
VN0502MBSD02

Tgt Ion: 91 Resp: 398206
Ion Ratio Lower Upper
91 100
106 30.5 24.6 36.8

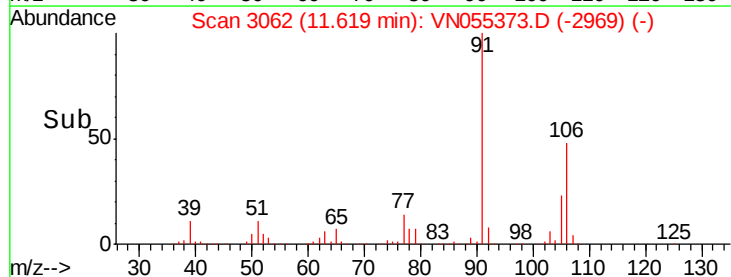
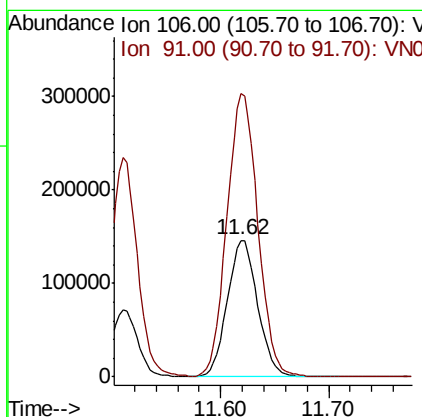
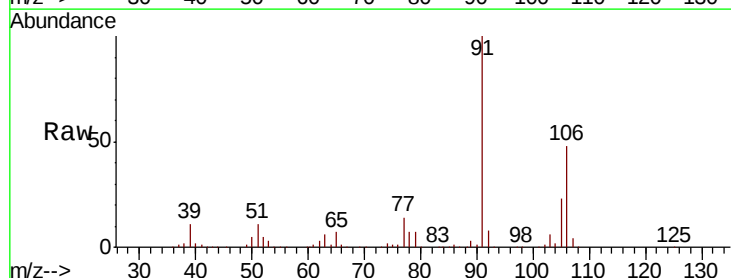
Manual Integrations
APPROVED

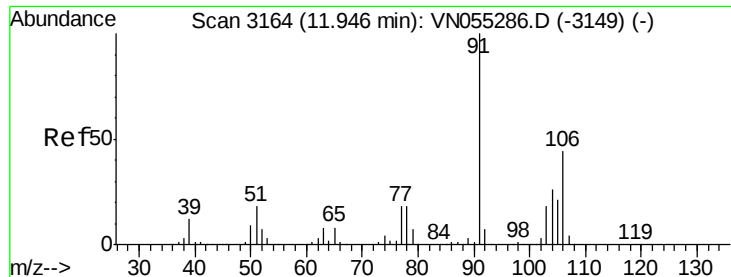
MMDadoda
5/3/2019 1:08:26 PM



#68
m/p-Xylenes
Concen: 40.392 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion: 106 Resp: 286746
Ion Ratio Lower Upper
106 100
91 210.6 169.5 254.3





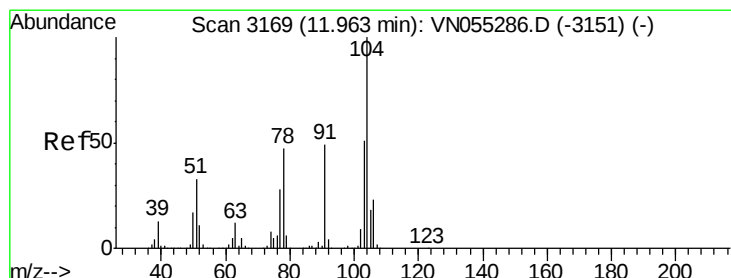
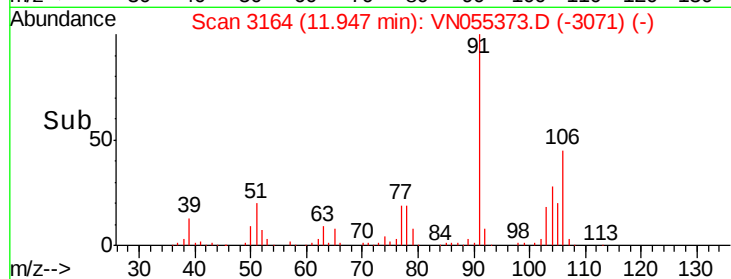
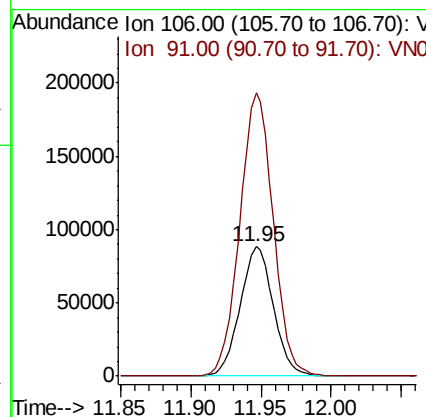
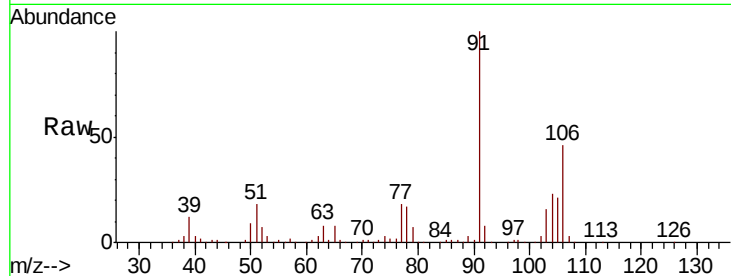
#69
o-Xylene
Concen: 20.829 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion:106 Resp: 146560
Ion Ratio Lower Upper
106 100
91 219.0 111.5 334.5

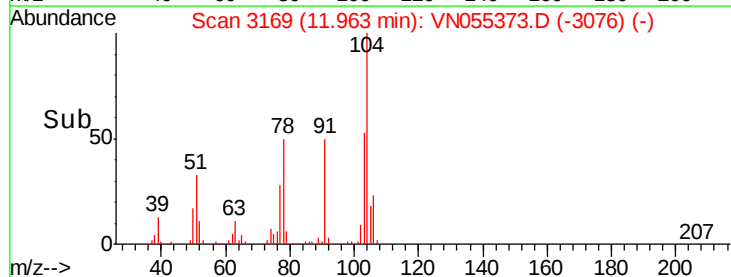
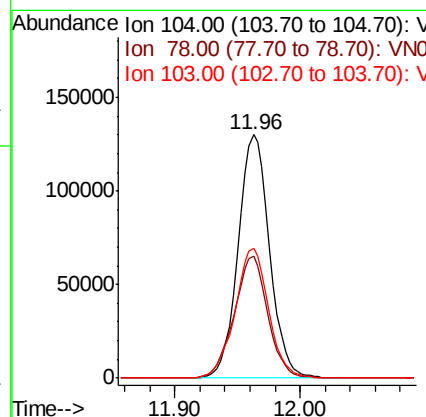
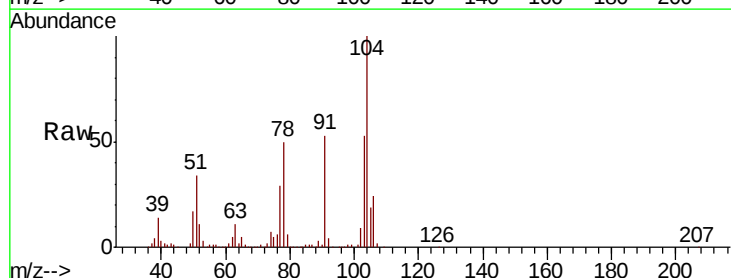
Manual Integrations
APPROVED

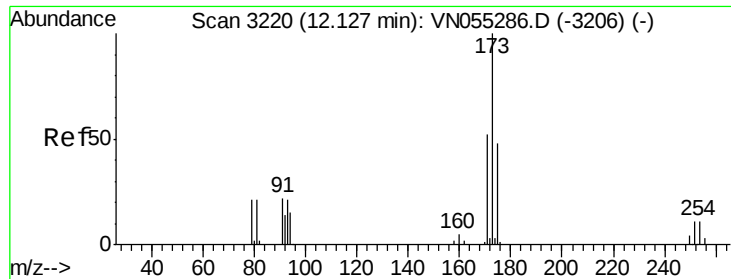
MMDadoda
5/3/2019 1:08:26 PM



#70
Styrene
Concen: 20.925 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion:104 Resp: 226063
Ion Ratio Lower Upper
104 100
78 53.5 42.2 63.2
103 56.8 44.6 67.0





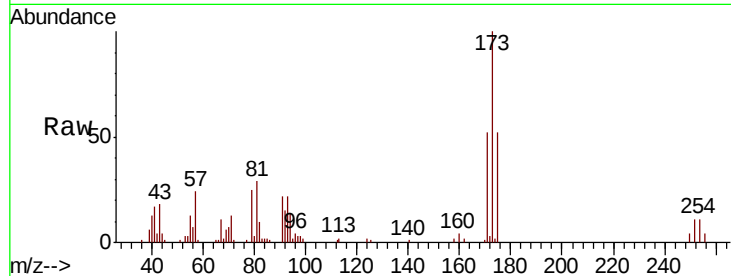
#71
Bromoform
Concen: 18.971 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.5	23.6	71.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM

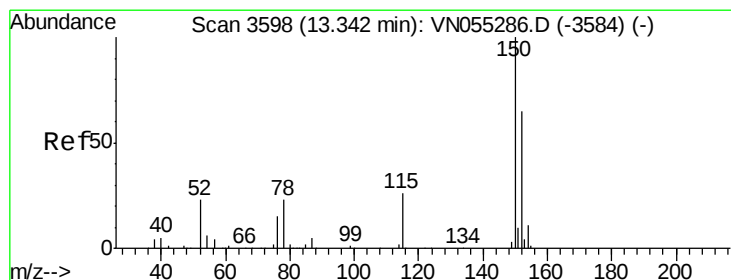
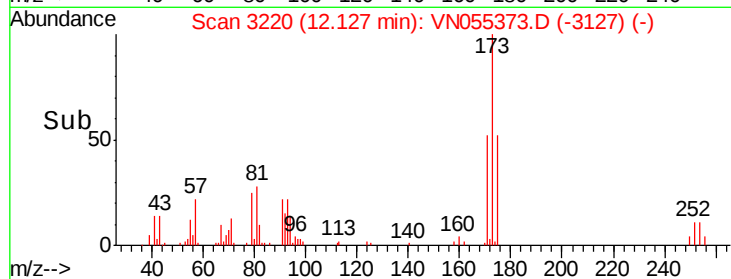
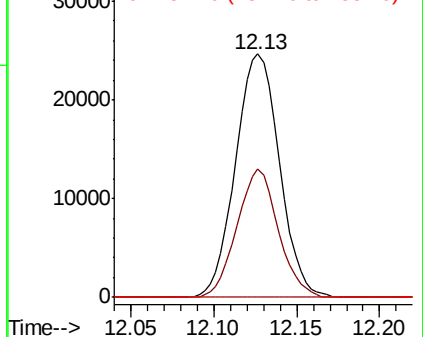


Abundance

Ion 172.70 (172.40 to 173.40): V

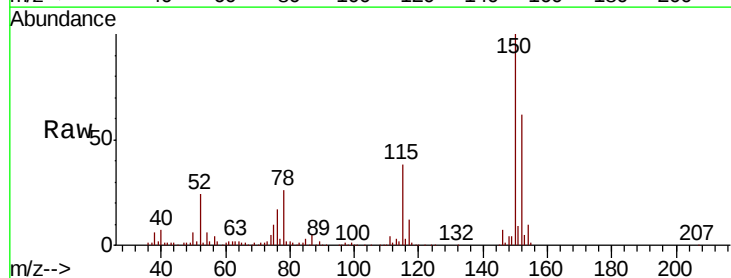
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.1	29.0	87.0
150	161.7	0.0	345.6

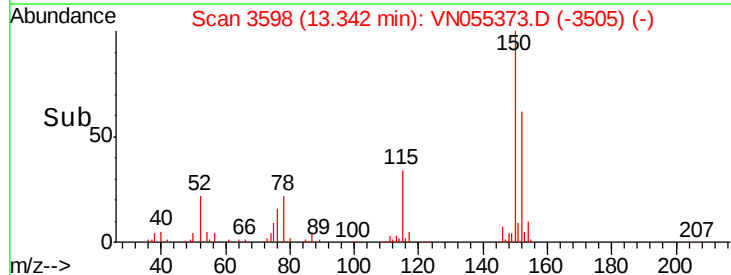
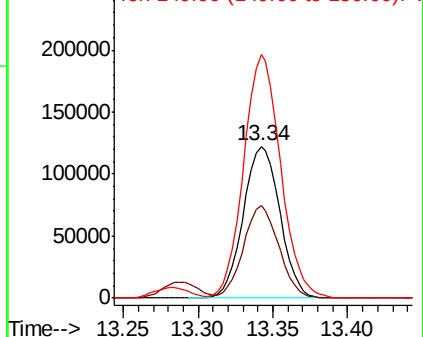


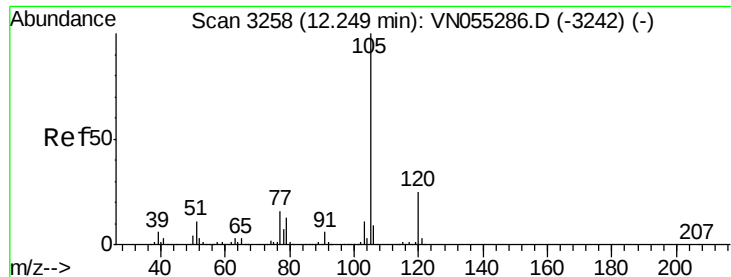
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.752 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBSD02

Tgt Ion: 105 Resp: 391140

Ion Ratio Lower Upper

105 100

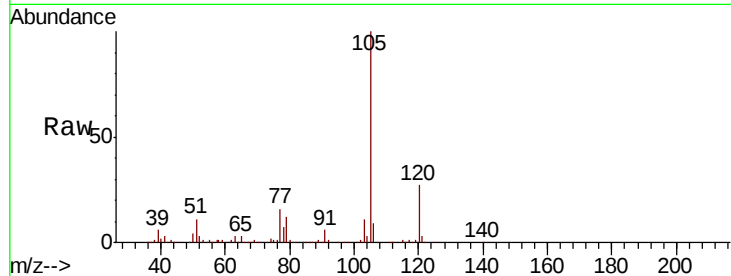
120 25.9 12.9 38.7

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:26 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

100000

50000

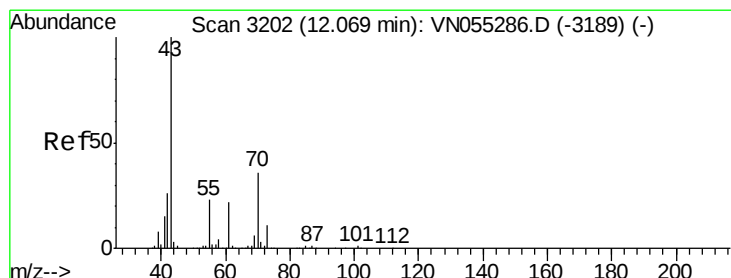
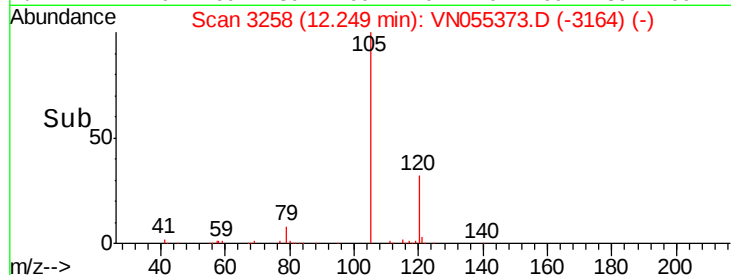
0

12.20

12.25

12.30

Time-->



#74

N-ethyl acetate

Concen: 23.132 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Tgt Ion: 43 Resp: 123979

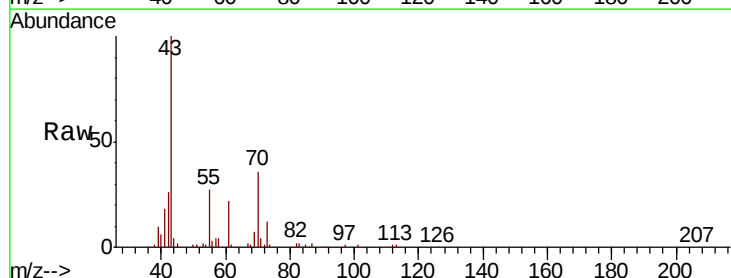
Ion Ratio Lower Upper

43 100

70 32.3 27.9 41.9

55 21.4 18.2 27.2

61 17.5 16.9 25.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

80000

60000

40000

20000

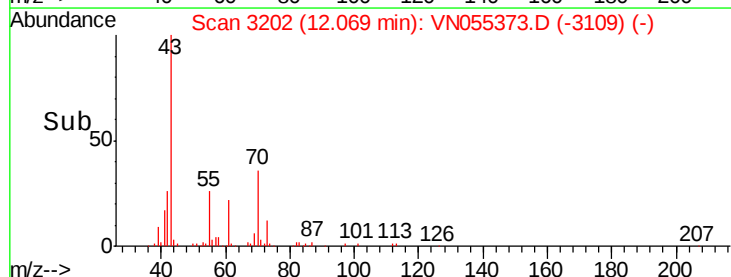
0

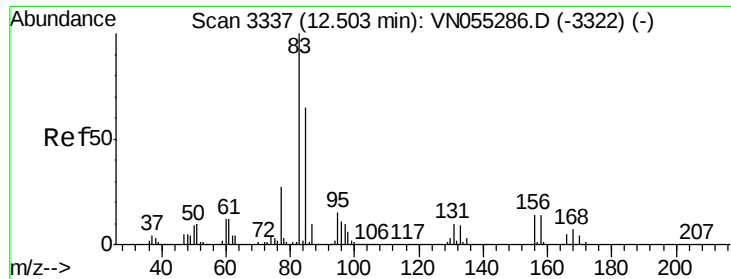
12.00

12.07

12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.379 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

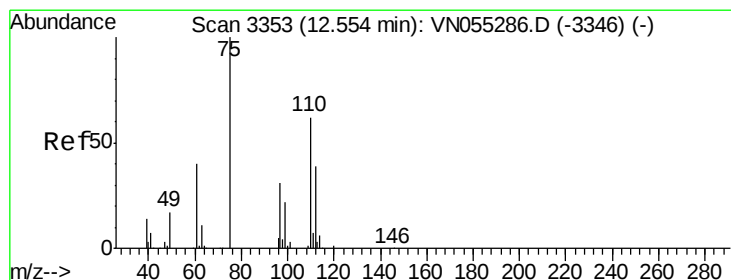
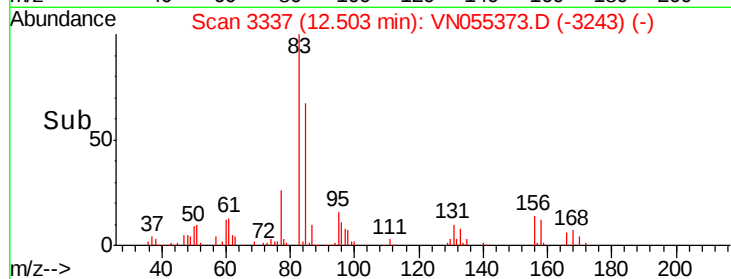
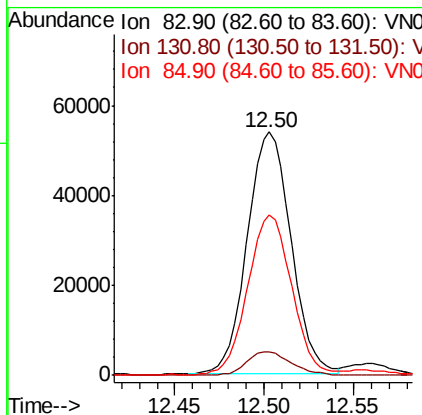
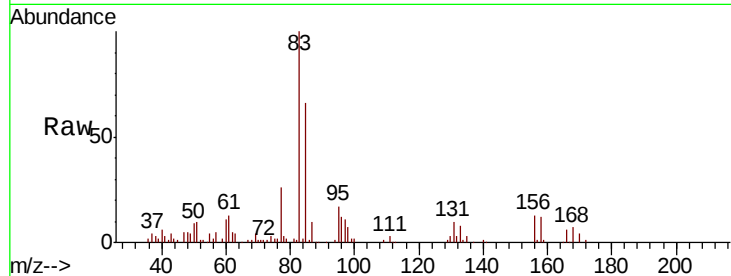
ClientSampleId :

VN0502MBSD02

Tgt Ion:	83	Resp:	92119
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.1	15.2
85	66.9	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM



#76

1,2,3-Trichloropropane

Concen: 21.004 ug/l m

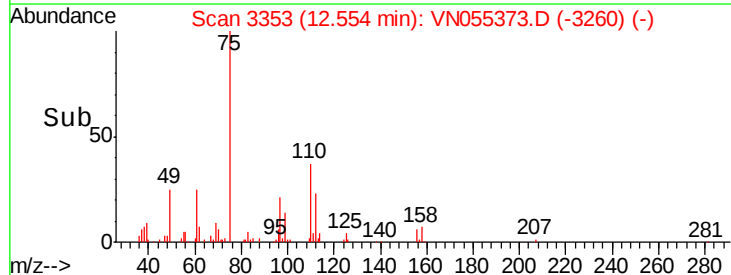
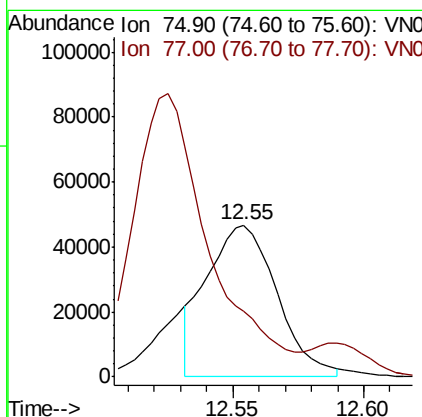
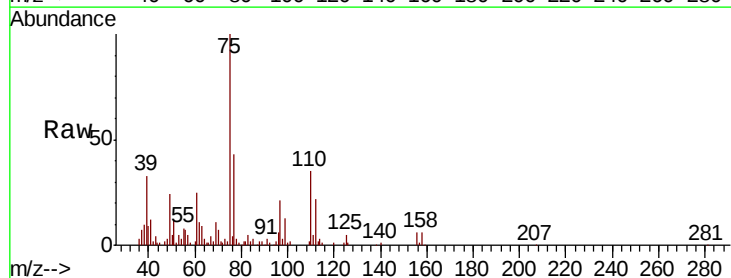
RT: 12.55 min Scan# 3353

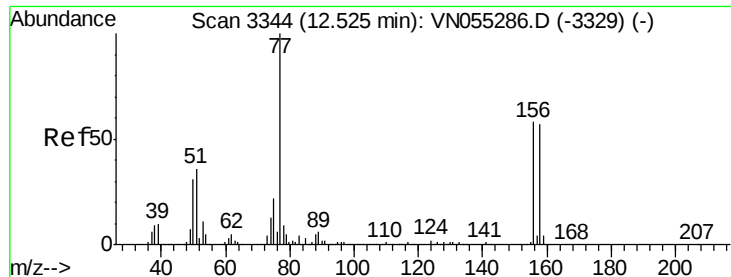
Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Tgt Ion:	75	Resp:	87200
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.985 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

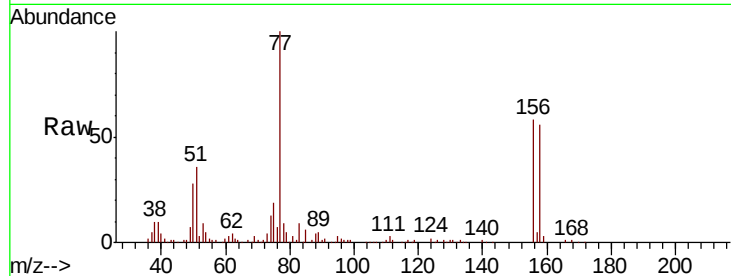
ClientSampleId :

VN0502MBSD02

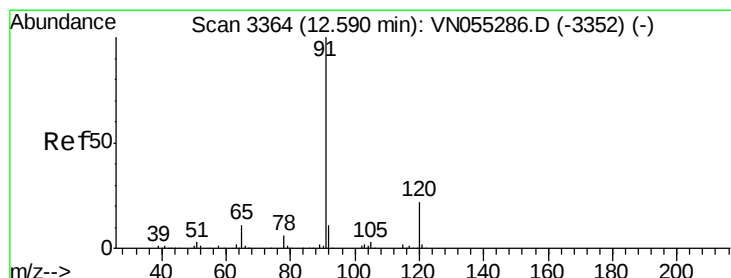
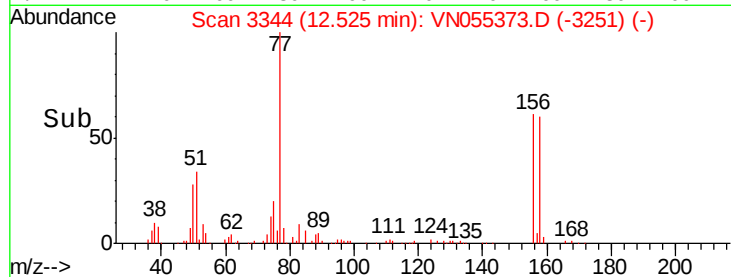
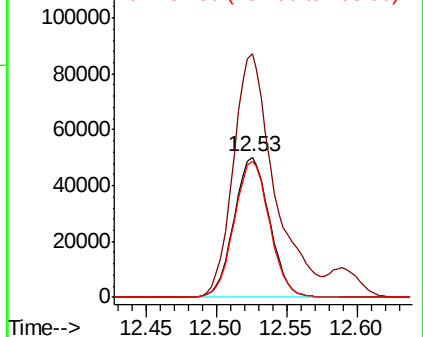
Tgt Ion:	156	Resp:	88701
Ion Ratio	Lower	Upper	
156	100		
77	199.0	99.6	298.8
158	96.5	49.3	147.8

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM



Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.488 ug/l

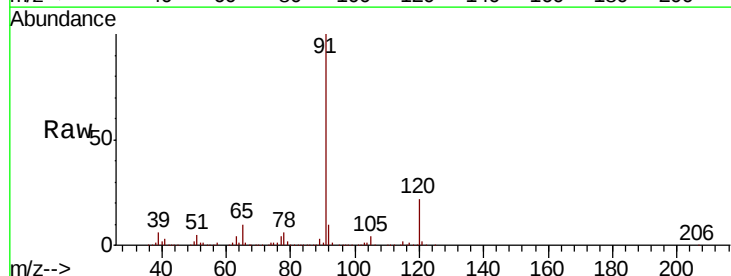
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

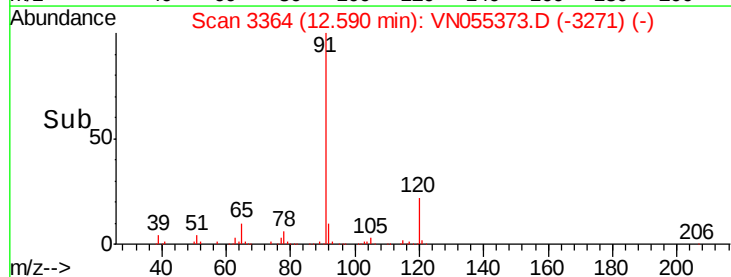
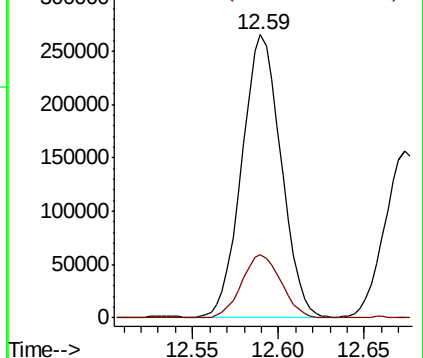
Lab File: VN055373.D

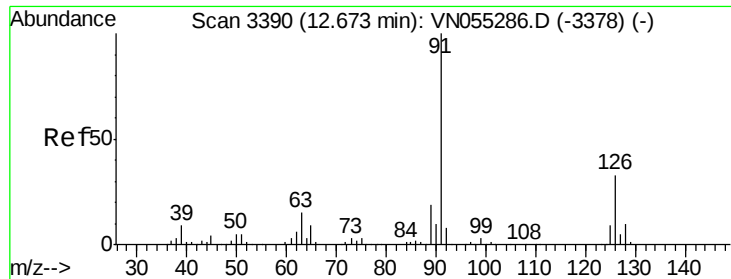
Acq: 3 May 2019 2:47

Tgt Ion:	91	Resp:	418060
Ion Ratio	Lower	Upper	
91	100		
120	22.6	11.0	33.0



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.216 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

ClientSampled :

VN0502MBSD02

Tgt Ion: 91 Resp: 257473

Ion Ratio Lower Upper

91 100

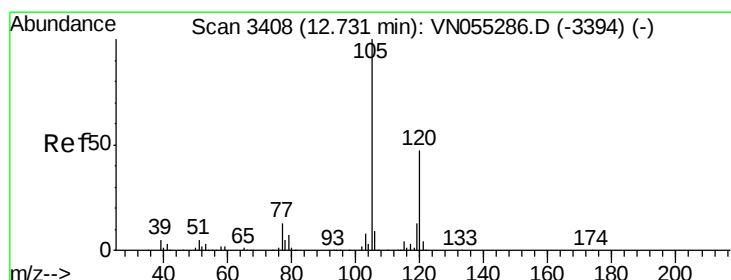
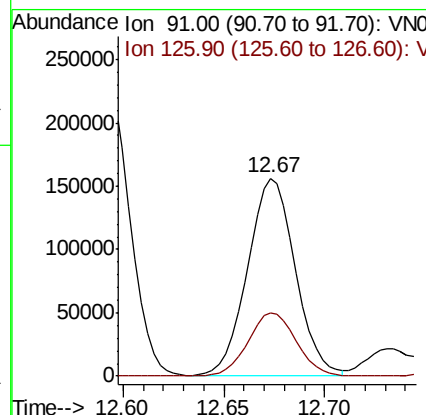
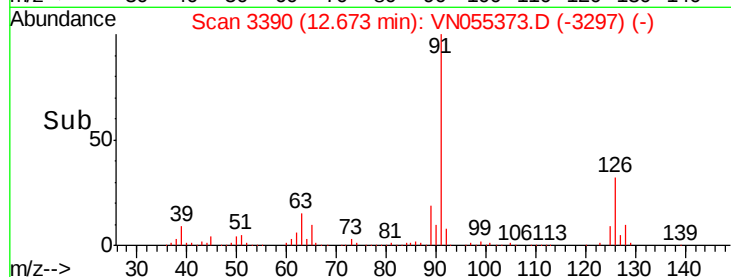
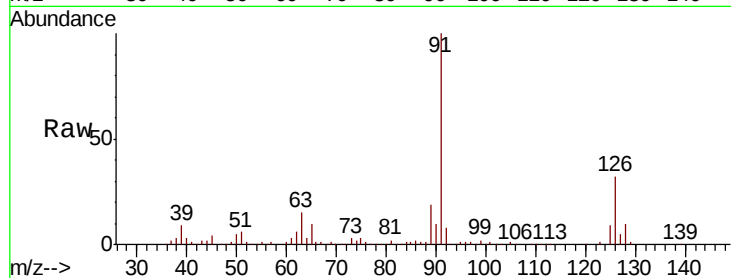
126 32.6 16.6 49.7

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:26 PM



#80

1,3,5-Trimethylbenzene

Concen: 19.589 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055373.D

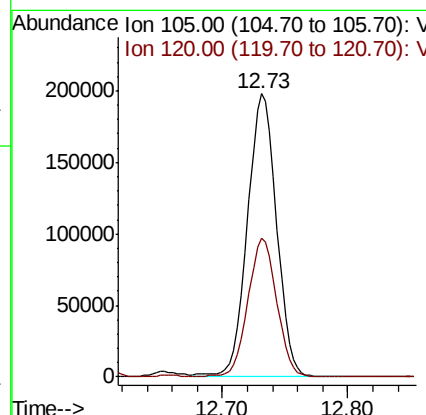
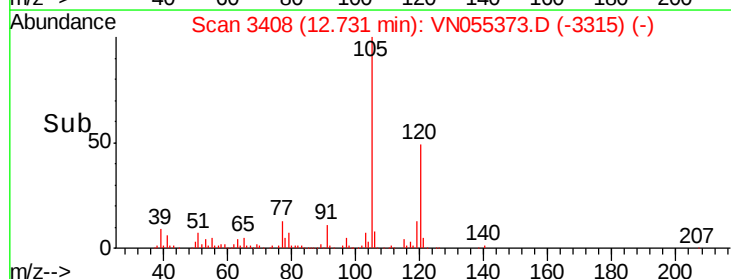
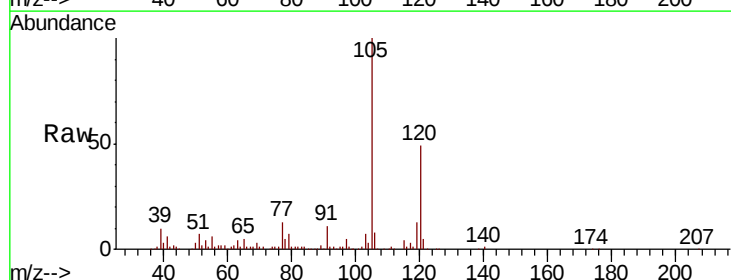
Acq: 3 May 2019 2:47

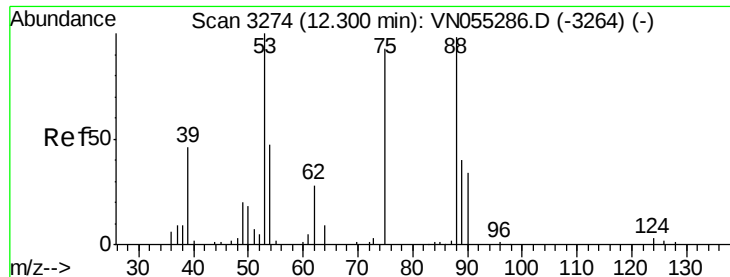
Tgt Ion: 105 Resp: 320713

Ion Ratio Lower Upper

105 100

120 48.5 23.4 70.0





#81

trans-1,4-Dichloro-2-butene

Concen: 16.700 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

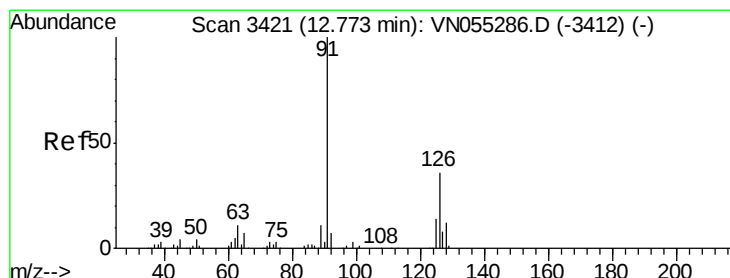
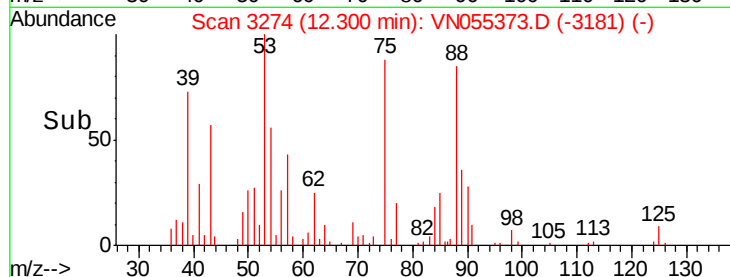
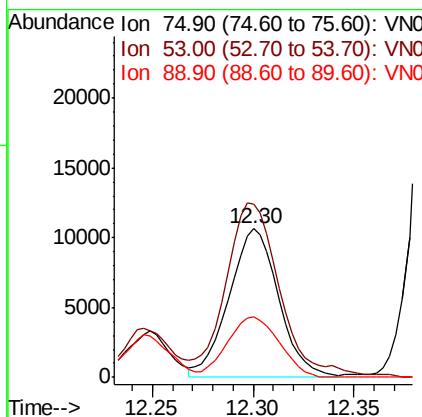
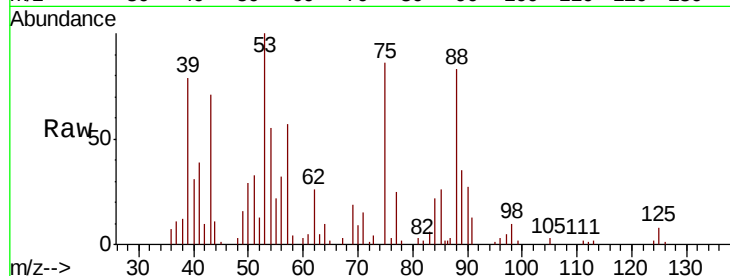
ClientSampleId :

VN0502MBSD02

Tgt Ion:	75	Resp:	18404
Ion Ratio	Lower	Upper	
75	100		
53	121.8	86.3	129.5
89	42.6	34.6	51.8

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM



#82

4-Chlorotoluene

Concen: 19.170 ug/l

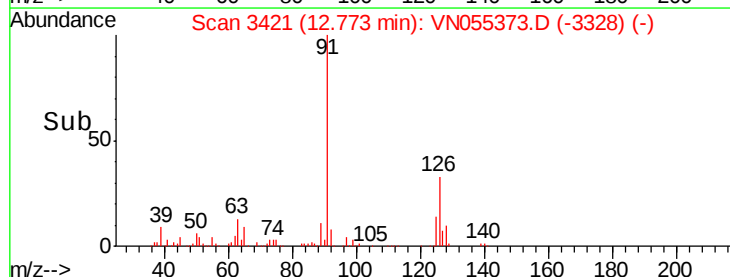
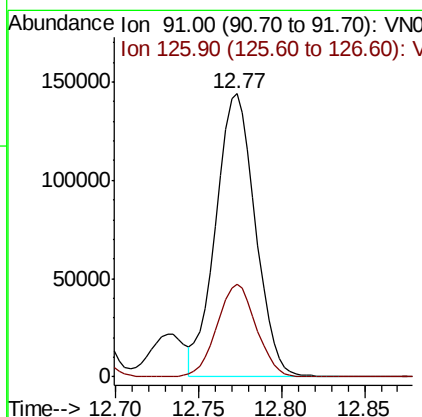
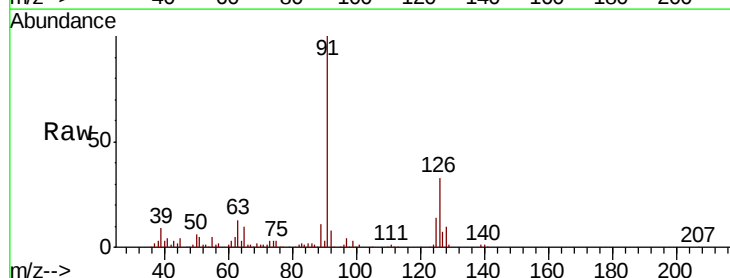
RT: 12.77 min Scan# 3421

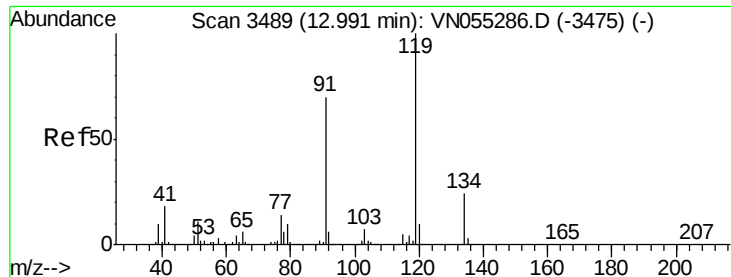
Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Tgt Ion:	91	Resp:	239109
Ion Ratio	Lower	Upper	
91	100		
126	32.5	16.6	49.7





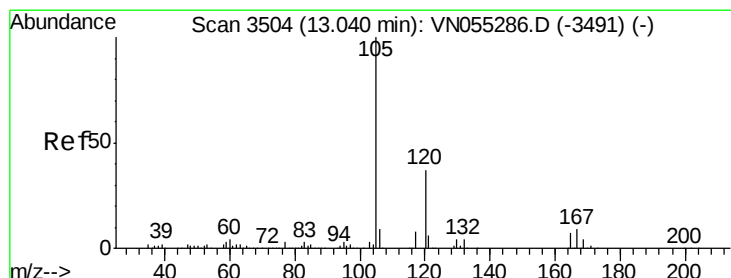
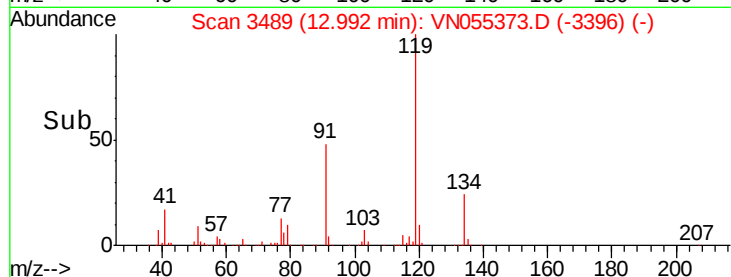
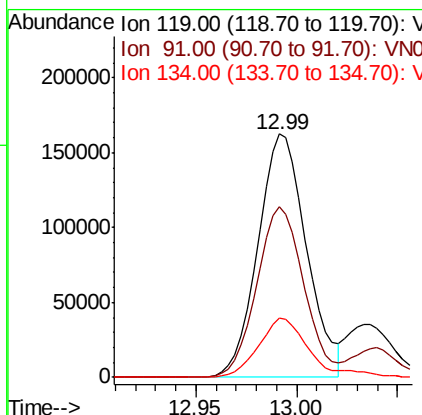
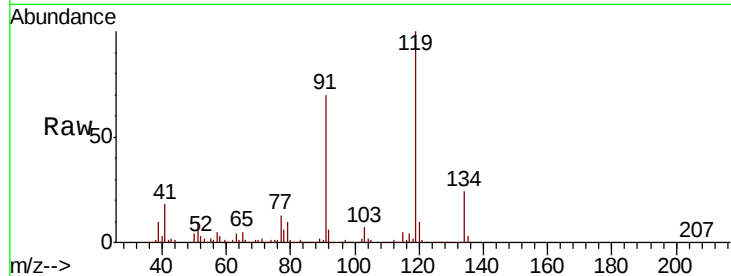
#83
 tert-Butylbenzene
 Concen: 21.900 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	272748		
91	67.7	34.3	102.9	
134	25.4	13.1	39.3	

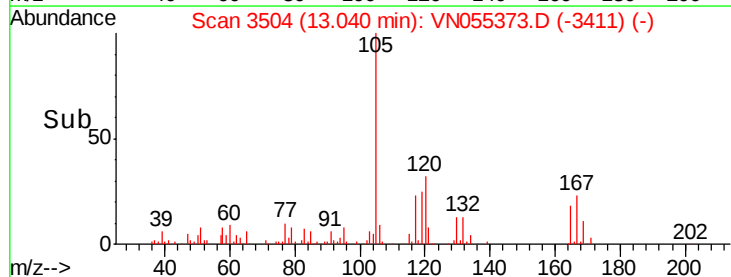
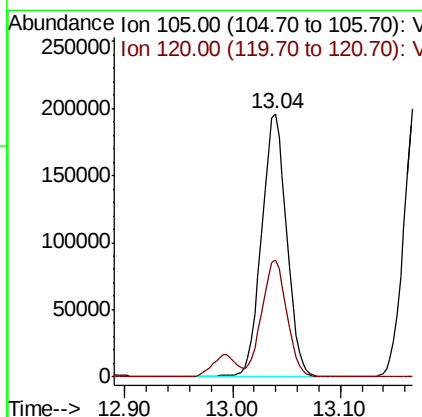
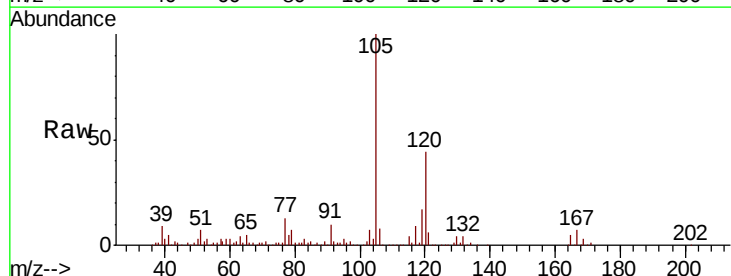
Manual Integrations
 APPROVED

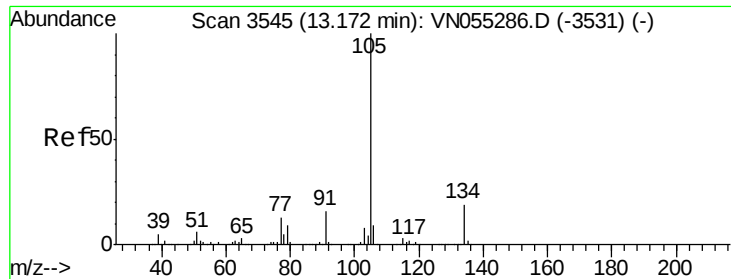
MMDadoda
 5/3/2019 1:08:26 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.596 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	316221		
120	44.1	22.1	66.5	





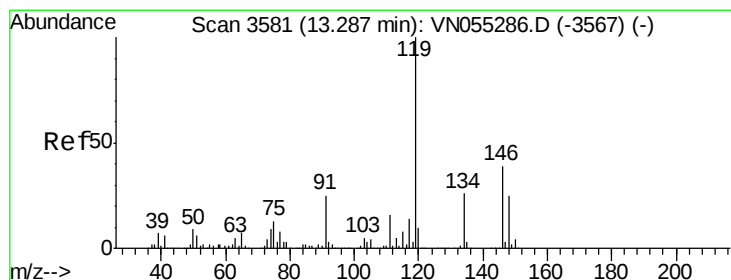
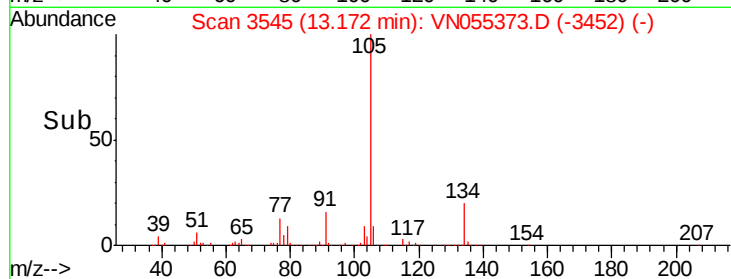
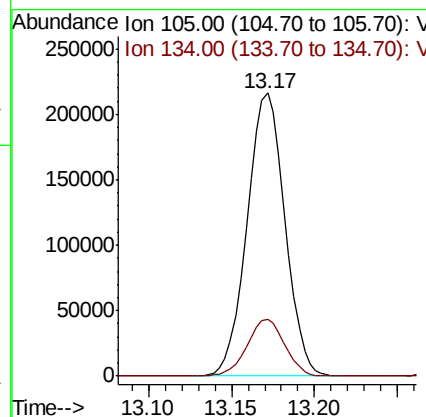
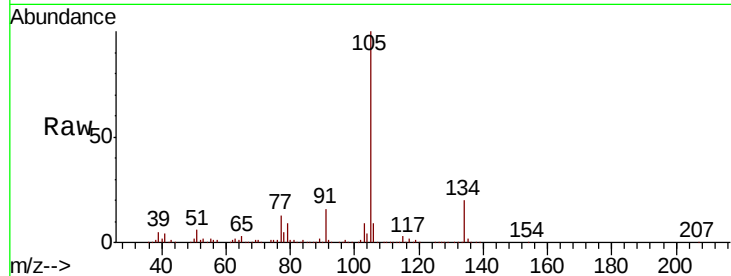
#85
 sec-Butylbenzene
 Concen: 19.277 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.6	28.8

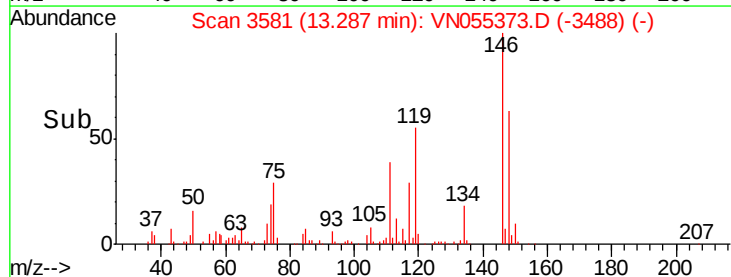
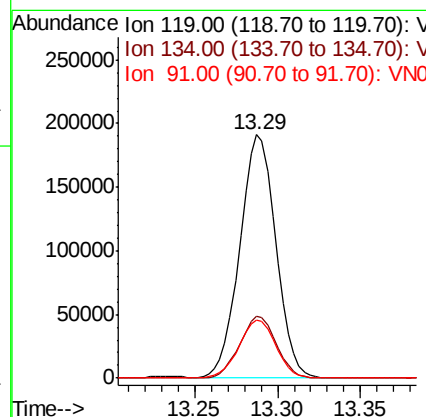
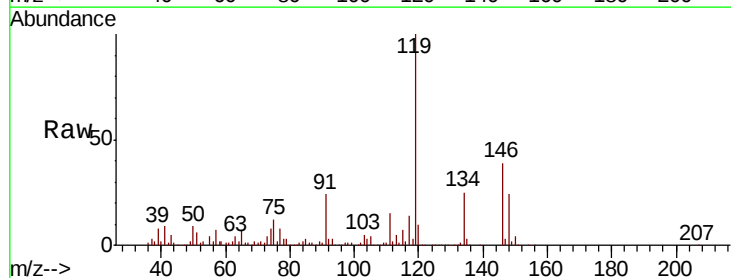
Manual Integrations
 APPROVED

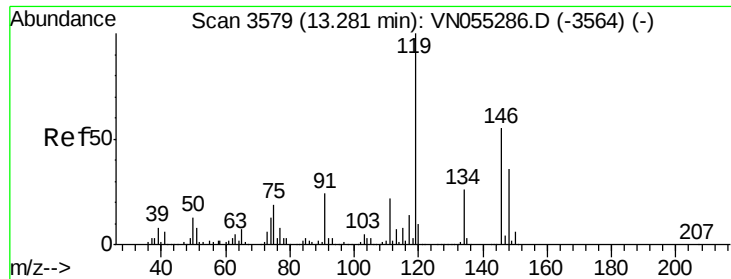
MMDadoda
 5/3/2019 1:08:26 PM



#86
 p-Isopropyltoluene
 Concen: 19.751 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.0	38.9
91	24.1	12.2	36.6





#87

1,3-Dichlorobenzene

Concen: 19.562 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Instrument :

MSVOA_N

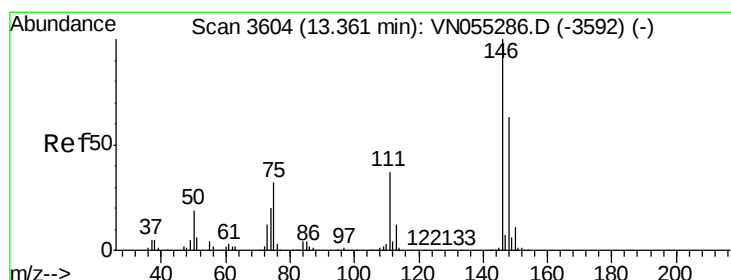
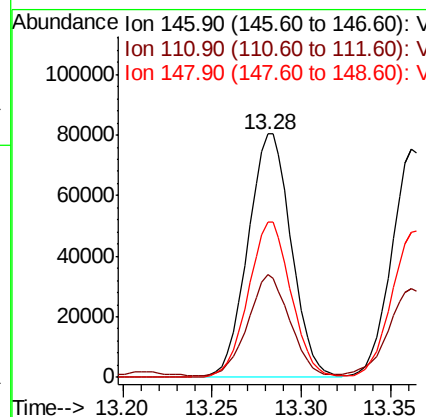
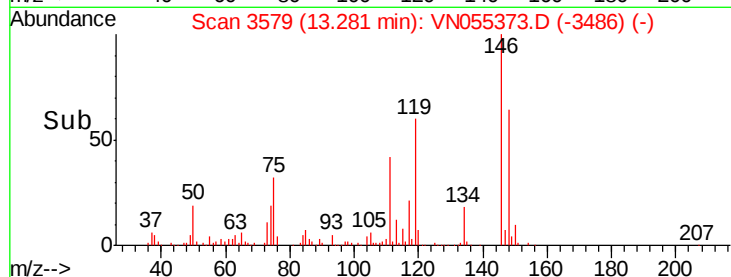
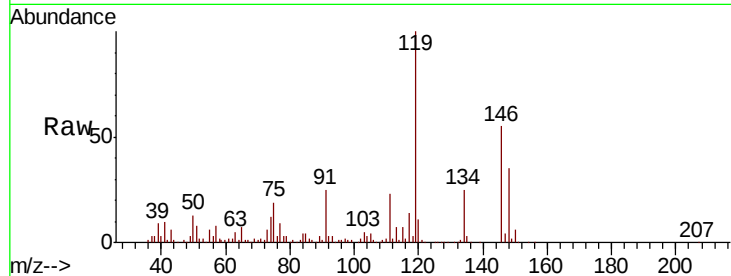
ClientSampled :

VN0502MBSD02

Tgt Ion:	146	Resp:	136707
Ion Ratio	Lower	Upper	
146	100		
111	40.1	20.3	60.8
148	62.9	32.5	97.5

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM



#88

1,4-Dichlorobenzene

Concen: 19.634 ug/l

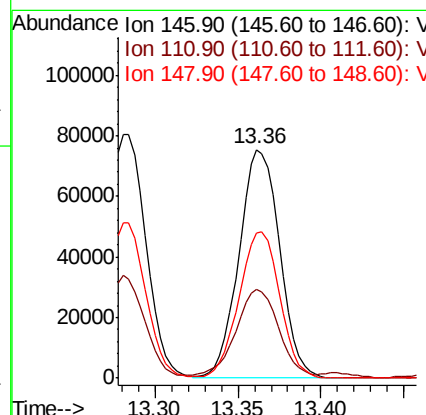
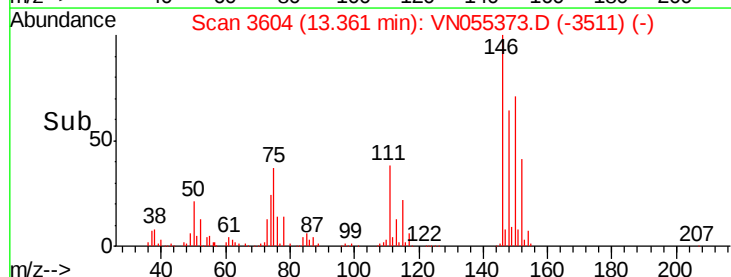
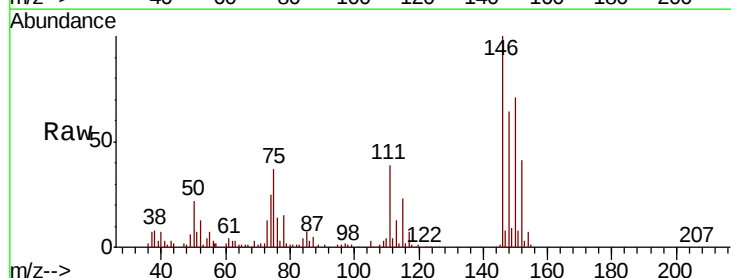
RT: 13.36 min Scan# 3604

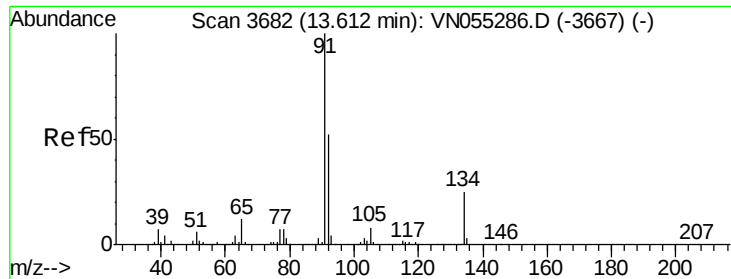
Delta R.T. 0.00 min

Lab File: VN055373.D

Acq: 3 May 2019 2:47

Tgt Ion:	146	Resp:	129213
Ion Ratio	Lower	Upper	
146	100		
111	40.5	19.5	58.5
148	64.2	32.5	97.4





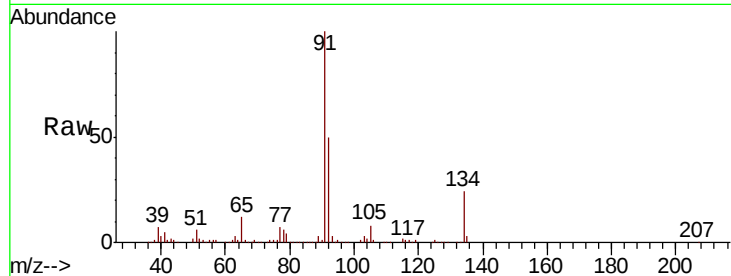
#89
n-Butylbenzene
Concen: 20.172 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

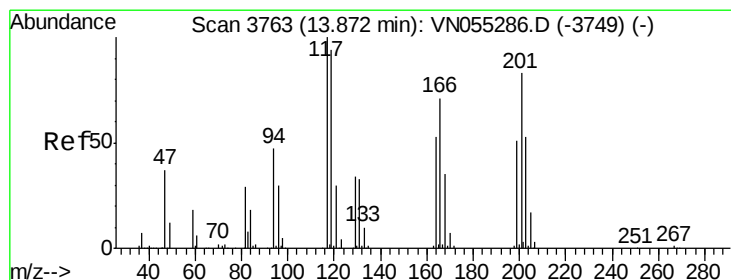
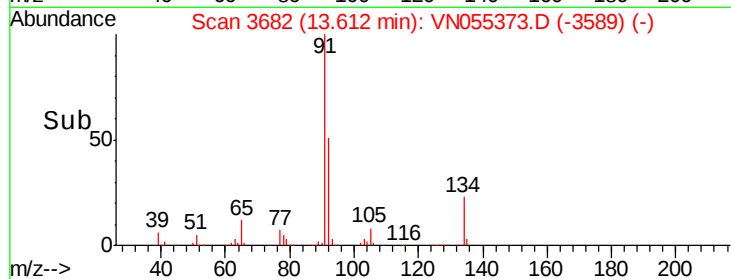
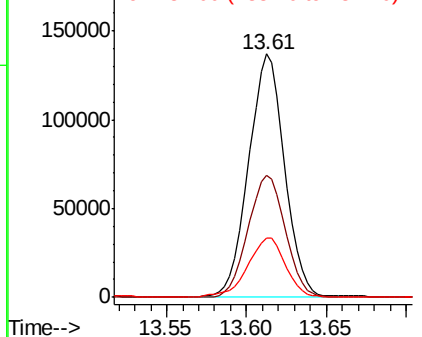
Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.1	78.3
134	25.2	12.4	37.4

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM

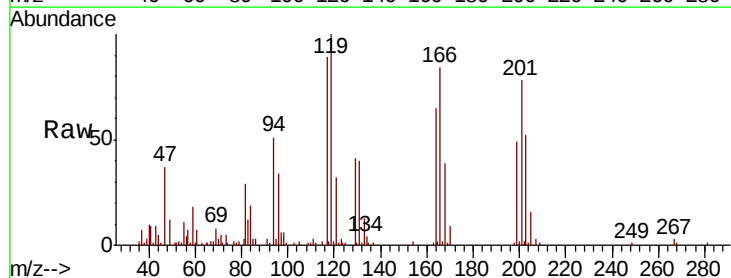


Abundance Ion 91.00 (90.70 to 91.70): VN055286.D (-3667) (-)
Ion 92.00 (91.70 to 92.70): VN055286.D (-3667) (-)
Ion 134.00 (133.70 to 134.70): VN055286.D (-3667) (-)

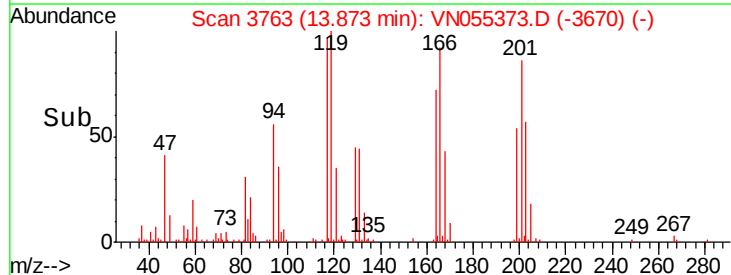
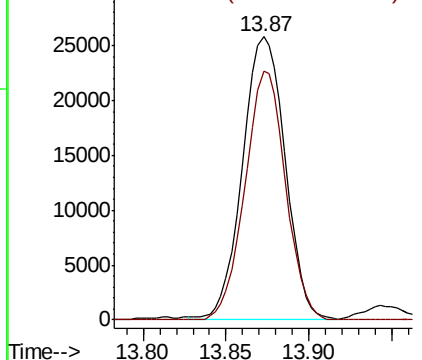


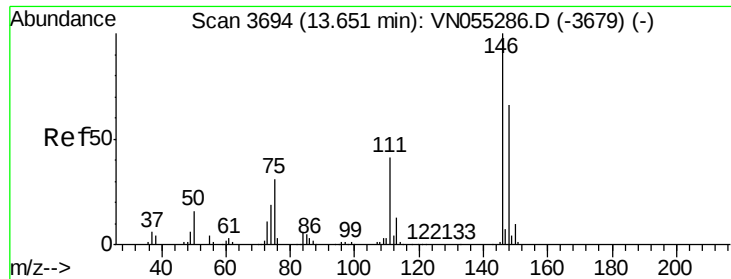
#90
Hexachloroethane
Concen: 19.009 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.2	41.9	125.8



Abundance Ion 116.80 (116.50 to 117.50): VN055286.D (-3749) (-)
Ion 200.70 (200.40 to 201.40): VN055286.D (-3749) (-)





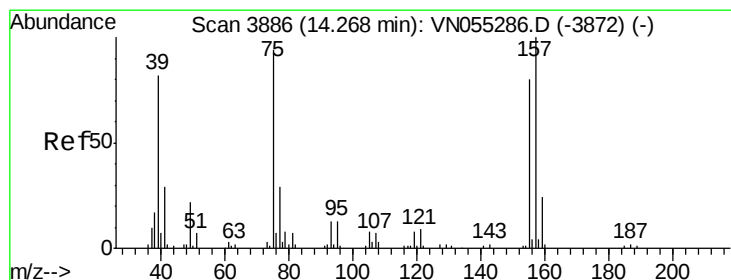
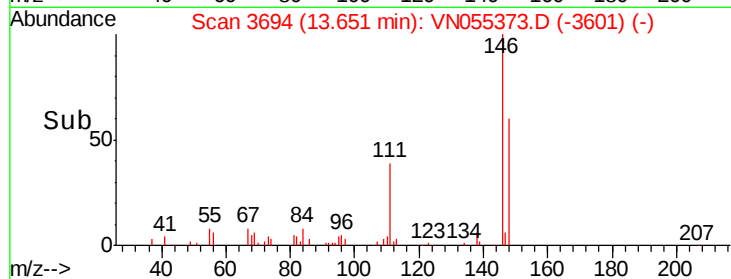
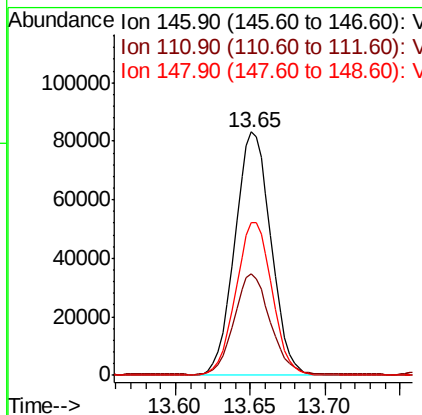
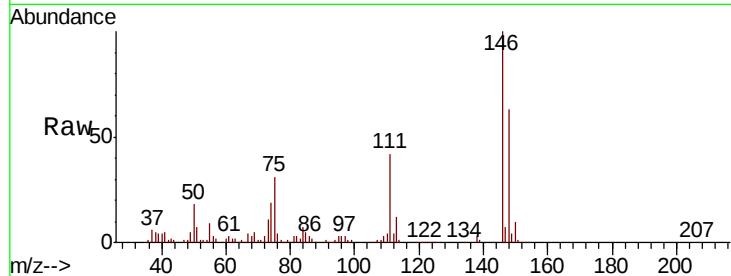
#91
 1,2-Dichlorobenzene
 Concen: 20.168 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.3	61.0
148	62.7	32.4	97.2

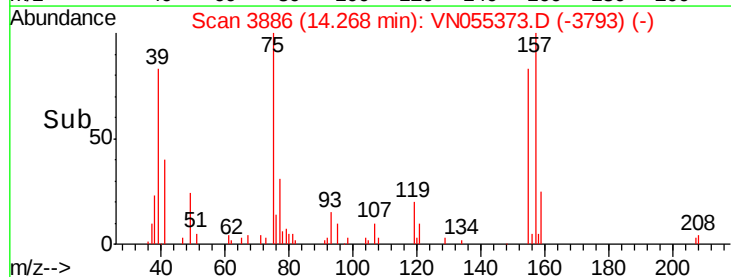
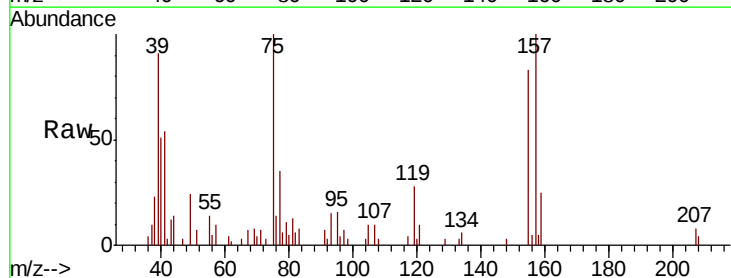
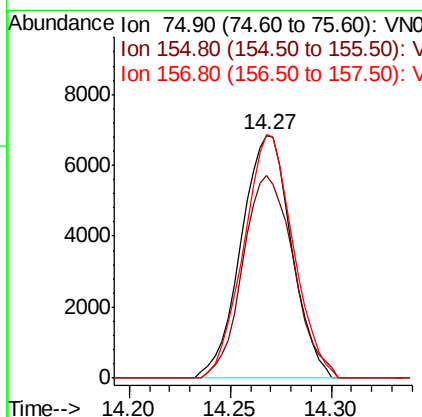
Manual Integrations
 APPROVED

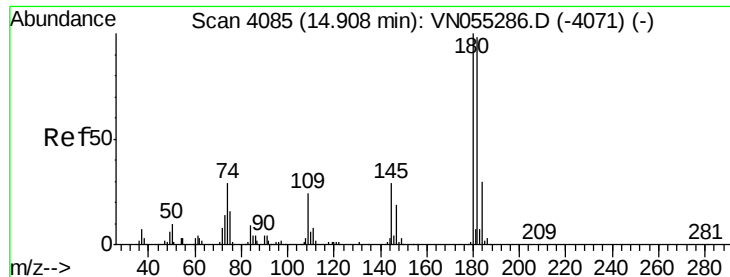
MMDadoda
 5/3/2019 1:08:26 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.719 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.2	41.5	124.6
157	98.4	54.0	162.2





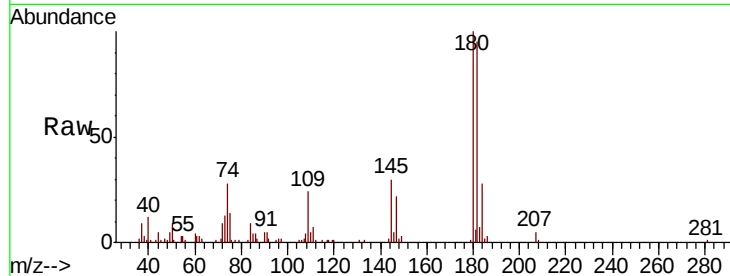
#93
 1,2,4-Trichlorobenzene
 Concen: 17.983 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	42904		
182	94.2	48.3	144.9	
145	32.0	14.2	42.6	

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 1:08:26 PM

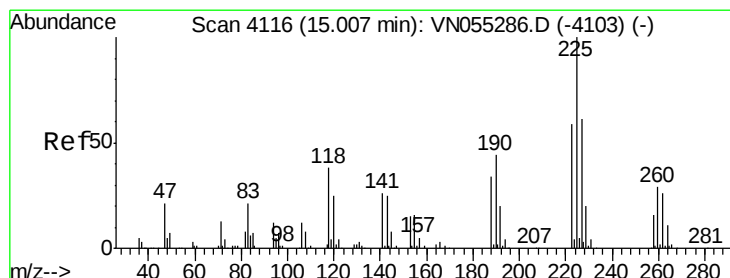
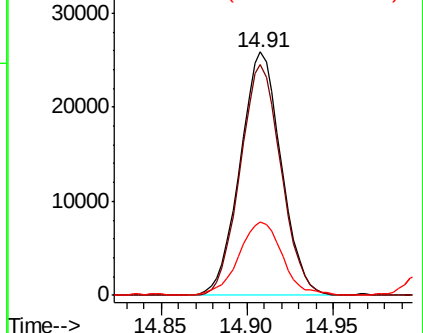
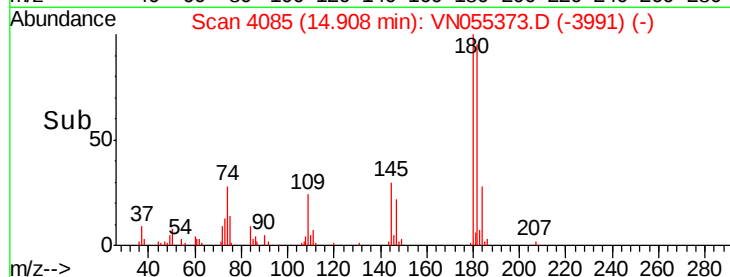


Abundance

Ion 179.80 (179.50 to 180.50): V

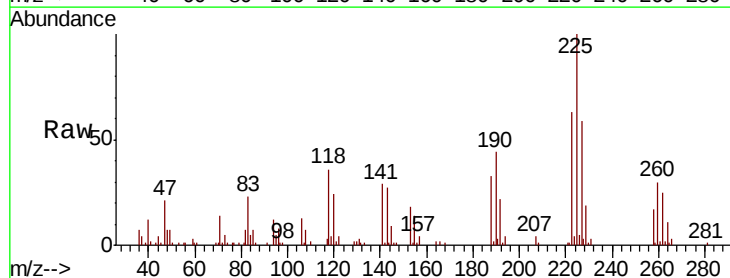
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 20.935 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055373.D
 Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	47023		
223	61.8	30.3	90.8	
227	61.7	30.9	92.7	

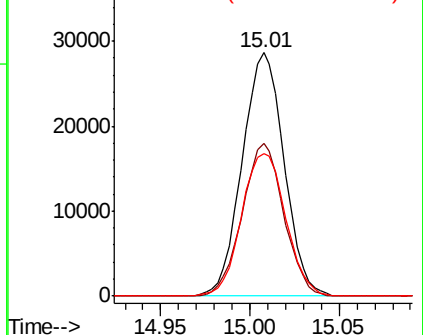
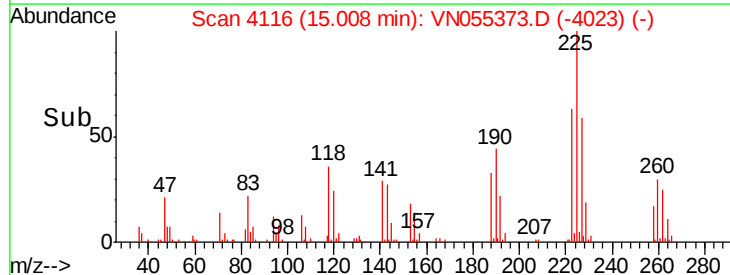


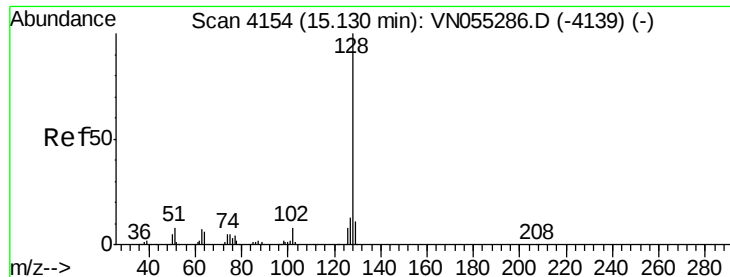
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





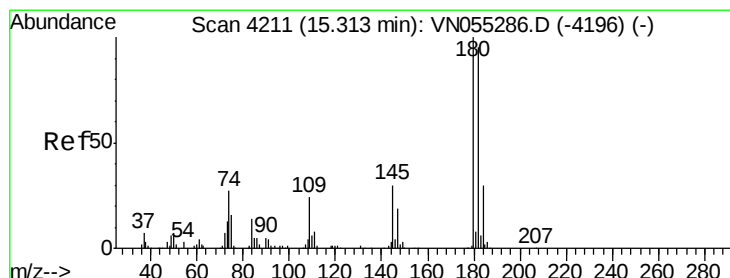
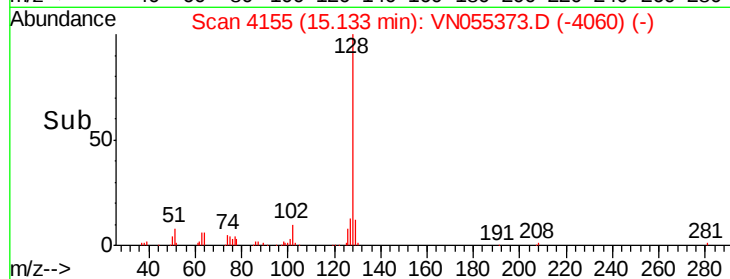
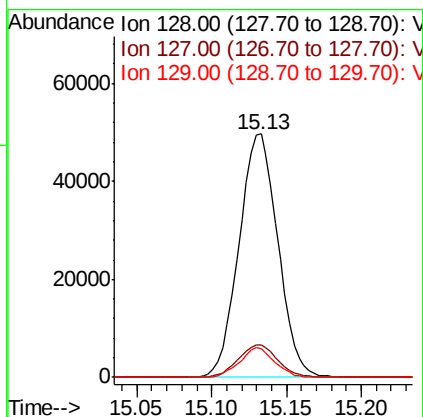
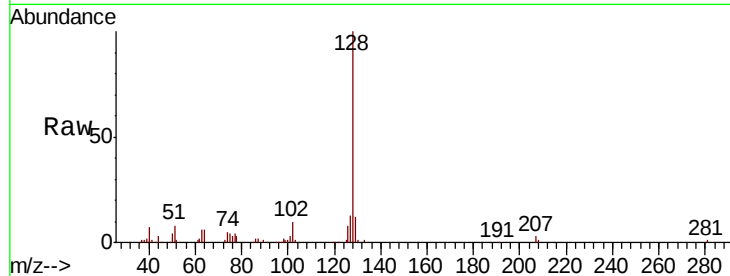
#95
Naphthalene
Concen: 17.780 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBSD02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.7	16.1
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:26 PM



#96
1,2,3-Trichlorobenzene
Concen: 18.831 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055373.D
Acq: 3 May 2019 2:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.1	48.3	144.9
145	32.3	15.2	45.6

