

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032019\
 Data File : VN054474.D
 Acq On : 20 Mar 2019 20:07
 Operator : JC/SP
 Sample : VN0320MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0320MBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 3:48:29 PM

Quant Time: Mar 22 05:26:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	532065	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	890464	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	764057	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	338756	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	354695	53.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.20%	
35) Dibromofluoromethane	7.59	113	284006	49.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.02%	
50) Toluene-d8	10.09	98	1071960	49.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.40%	
62) 4-Bromofluorobenzene	12.40	95	360241	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	111785	21.977	ug/l	99
3) Chloromethane	2.06	50	148771	21.497	ug/l	100
4) Vinyl Chloride	2.19	62	142617	20.526	ug/l	100
5) Bromomethane	2.58	94	85783	19.093	ug/l	98
6) Chloroethane	2.71	64	84411	20.255	ug/l	97
7) Trichlorofluoromethane	3.03	101	174482	20.678	ug/l	99
8) Diethyl Ether	3.41	74	66791	20.582	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	3.75	101	94877	19.132	ug/l	96
10) Methyl Iodide	3.95	142	143952	19.734	ug/l	93
11) Tert butyl alcohol	4.82	59	39994	99.818	ug/l	99
12) 1,1-Dichloroethene	3.73	96	99726	19.432	ug/l #	83
13) Acrolein	3.61	56	59293	107.234	ug/l	99
14) Allyl chloride	4.32	41	201957	20.898	ug/l #	90
15) Acrylonitrile	5.00	53	220536	110.528	ug/l	99
16) Acetone	3.82	43	160120	80.474	ug/l	88
17) Carbon Disulfide	4.04	76	248759	18.091	ug/l	97
18) Methyl Acetate	4.33	43	98676	22.250	ug/l	90
19) Methyl tert-butyl Ether	5.06	73	328367	21.924	ug/l	94
20) Methylene Chloride	4.54	84	125010	21.314	ug/l #	86
21) trans-1,2-Dichloroethene	5.04	96	114888	21.924	ug/l	86
22) Diisopropyl ether	5.96	45	427669	22.436	ug/l #	94
23) Vinyl Acetate	5.90	43	1460201	108.463	ug/l #	93
24) 1,1-Dichloroethane	5.85	63	225847	22.005	ug/l	98
25) 2-Butanone	6.85	43	267522	104.959	ug/l #	89
26) 2,2-Dichloropropane	6.82	77	126930	17.349	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	134260	21.480	ug/l	91
28) Bromochloromethane	7.20	49	106618	21.105	ug/l #	77
29) Tetrahydrofuran	7.22	42	183749	111.092	ug/l	87
30) Chloroform	7.37	83	214983	21.464	ug/l	98
31) Cyclohexane	7.65	56	224514	21.781	ug/l	91
32) 1,1,1-Trichloroethane	7.57	97	174697	21.141	ug/l	96
36) 1,1-Dichloropropene	7.79	75	167451	20.112	ug/l	96
37) Ethyl Acetate	6.94	43	120384	20.329	ug/l	97
38) Carbon Tetrachloride	7.77	117	150409	18.590	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032019\
 Data File : VN054474.D
 Acq On : 20 Mar 2019 20:07
 Operator : JC/SP
 Sample : VN0320MBSD01
 Misc : 5.00uL/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0320MBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 3:48:29 PM

Quant Time: Mar 22 05:26:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	185413	19.468	ug/l	91
40) Benzene	8.04	78	494269	20.760	ug/l	100
41) Methacrylonitrile	7.17	41	70061	19.400	ug/l	90
42) 1,2-Dichloroethane	8.13	62	174963	20.179	ug/l	98
43) Isopropyl Acetate	8.17	43	202286	20.227	ug/l #	94
44) Trichloroethene	8.83	130	133913	20.231	ug/l	90
45) 1,2-Dichloropropane	9.12	63	134369	21.018	ug/l	100
46) Dibromomethane	9.21	93	78952	20.701	ug/l	89
47) Bromodichloromethane	9.40	83	154104	19.469	ug/l	97
48) Methyl methacrylate	9.20	41	108296	19.951	ug/l	87
49) 1,4-Dioxane	9.21	88	23104	380.733	ug/l #	84
51) 4-Methyl-2-Pentanone	9.99	43	584450	105.448	ug/l	93
52) Toluene	10.16	92	294631	20.121	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	136450	17.844	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	175542	19.342	ug/l #	91
55) 1,1,2-Trichloroethane	10.56	97	109565	20.815	ug/l	97
56) Ethyl methacrylate	10.43	69	142833	20.217	ug/l #	86
57) 1,3-Dichloropropane	10.71	76	193507	21.148	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	277675	95.447	ug/l	92
59) 2-Hexanone	10.75	43	360446	99.562	ug/l	92
60) Dibromochloromethane	10.90	129	104332	18.627	ug/l	96
61) 1,2-Dibromoethane	11.01	107	105791	20.330	ug/l	98
64) Tetrachloroethene	10.63	164	133607	21.082	ug/l	96
65) Chlorobenzene	11.43	112	317597	20.437	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	112451	20.160	ug/l	99
67) Ethyl Benzene	11.51	91	571196	20.808	ug/l	99
68) m/p-Xylenes	11.62	106	417032	40.109	ug/l	96
69) o-Xylene	11.95	106	209819	20.663	ug/l	100
70) Styrene	11.96	104	343860	20.853	ug/l	98
71) Bromoform	12.13	173	58443	16.743	ug/l #	98
73) Isopropylbenzene	12.25	105	559529	20.497	ug/l	97
74) N-amyl acetate	12.07	43	166690	21.237	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.50	83	124213	19.933	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	115715m	21.526	ug/l	
77) Bromobenzene	12.53	156	194274	28.695	ug/l	74
78) n-propylbenzene	12.59	91	591695	19.989	ug/l	99
79) 2-Chlorotoluene	12.67	91	358302	19.411	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	475312	21.245	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.30	75	19523	14.898	ug/l #	66
82) 4-Chlorotoluene	12.77	91	358678	20.046	ug/l	96
83) tert-Butylbenzene	12.99	119	392983	20.180	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	446286	20.330	ug/l	98
85) sec-Butylbenzene	13.17	105	488841	20.136	ug/l	97
86) p-Isopropyltoluene	13.29	119	451080	20.769	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	222015	19.789	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	213261	19.537	ug/l	97
89) n-Butylbenzene	13.61	91	348393	20.514	ug/l	98
90) Hexachloroethane	13.87	117	55009	16.317	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	221584	20.391	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	18289	20.010	ug/l	85

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032019\
Data File : VN054474.D
Acq On : 20 Mar 2019 20:07
Operator : JC/SP
Sample : VN0320MBSD01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM

Quant Time: Mar 22 05:26:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	118622	21.897	ug/l	98
94) Hexachlorobutadiene	15.01	225	66781	20.478	ug/l	99
95) Naphthalene	15.13	128	269330	22.289	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	118083	21.901	ug/l	97

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

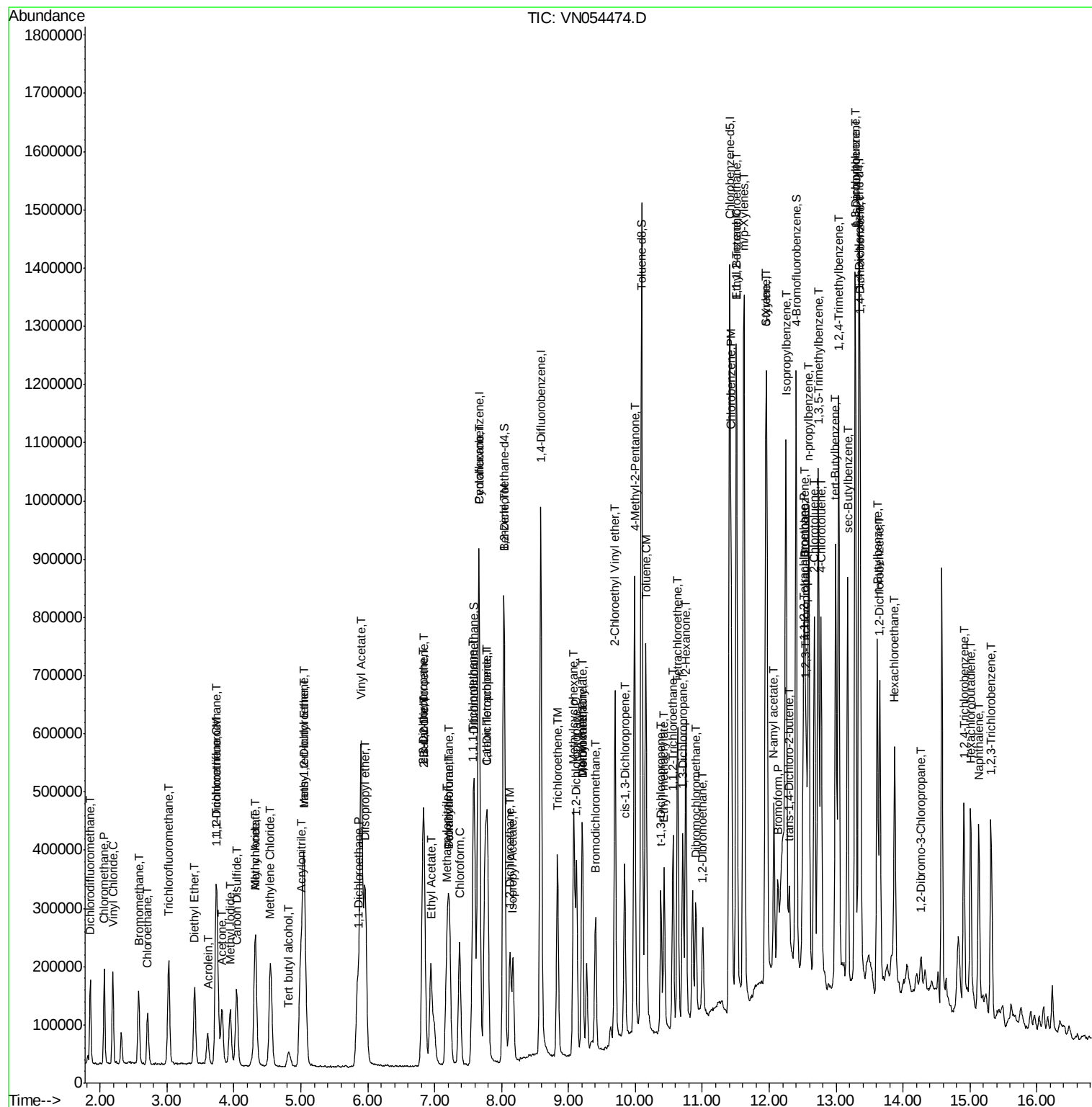
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032019\
 Data File : VN054474.D
 Acq On : 20 Mar 2019 20:07
 Operator : JC/SP
 Sample : VN0320MBSD01
 Misc : 5.00µL/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 Client Sample ID :
 VN0320MBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 3:48:29 PM

Quant Time: Mar 22 05:26:51 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion:168 Resp: 532065

Ion Ratio Lower Upper

168 100

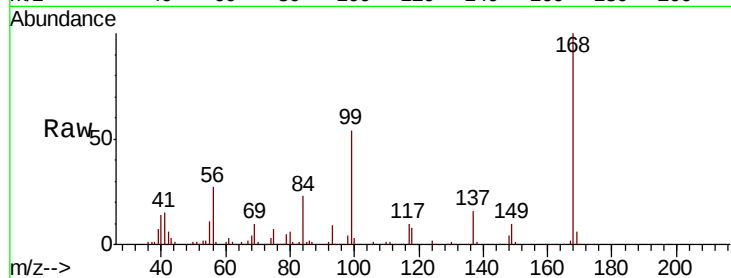
99 52.4 37.1 55.7

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

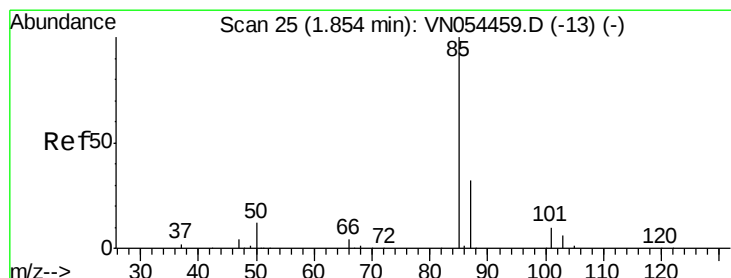
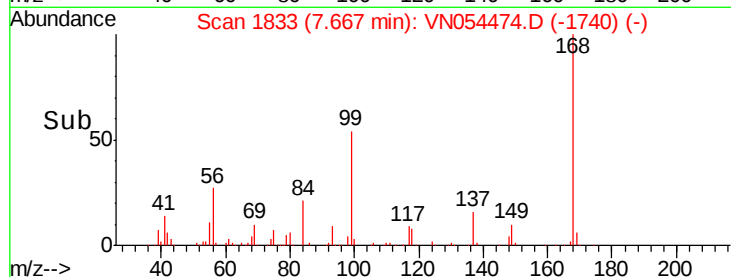
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 21.977 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054474.D

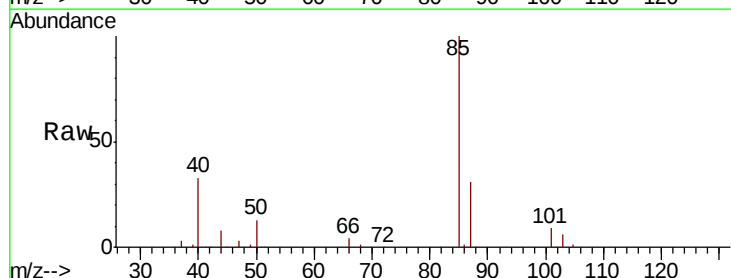
Acq: 20 Mar 2019 20:07

Tgt Ion: 85 Resp: 111785

Ion Ratio Lower Upper

85 100

87 31.0 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

80000

60000

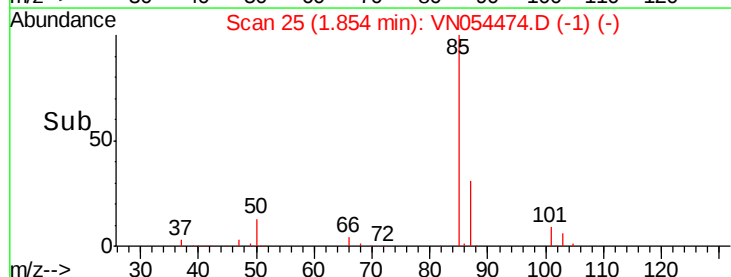
40000

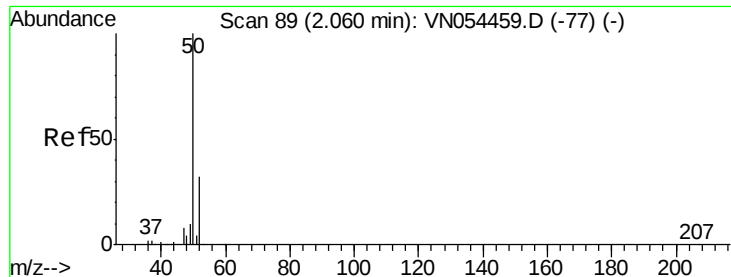
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 21.497 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 50 Resp: 148771

Ion Ratio Lower Upper

50 100

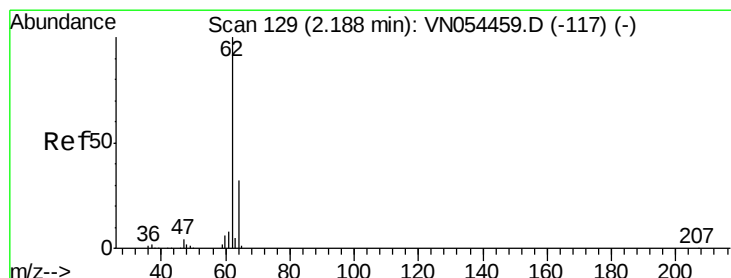
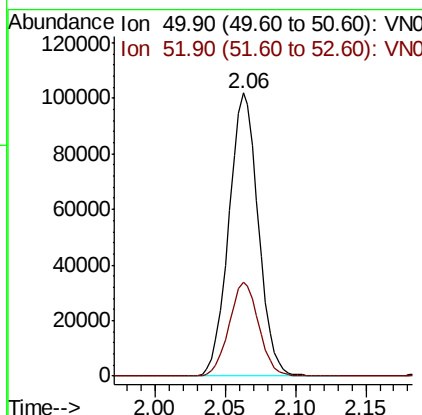
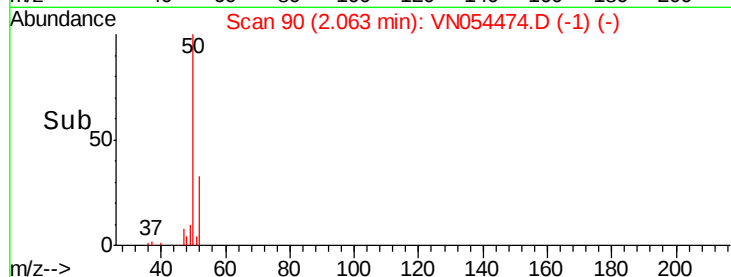
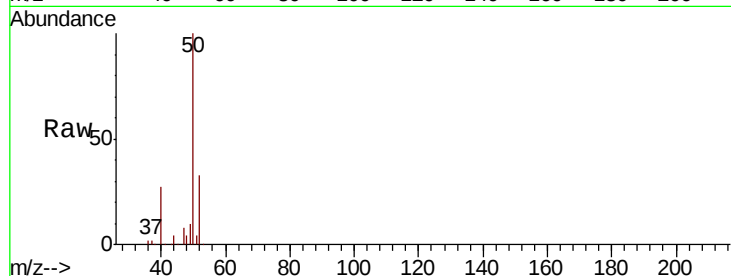
52 33.1 26.4 39.6

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



#4

Vinyl Chloride

Concen: 20.526 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054474.D

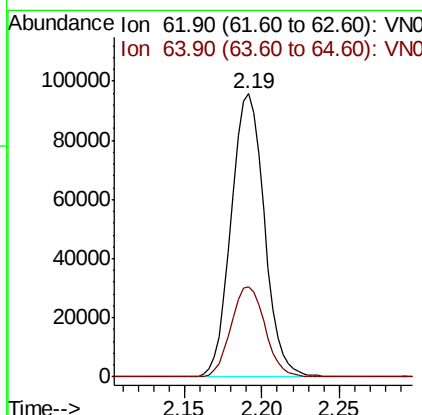
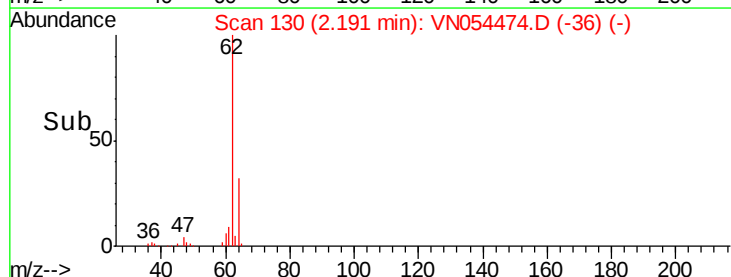
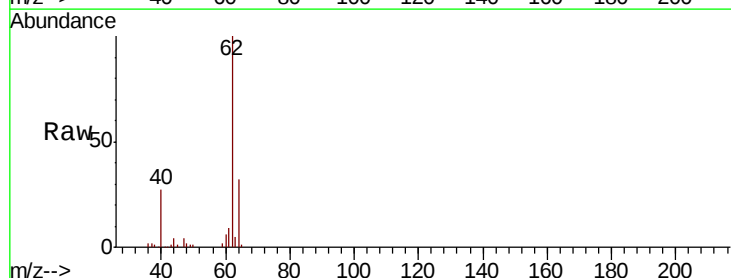
Acq: 20 Mar 2019 20:07

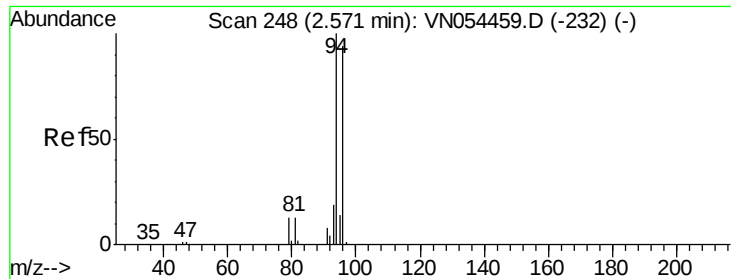
Tgt Ion: 62 Resp: 142617

Ion Ratio Lower Upper

62 100

64 32.0 25.5 38.3





#5

Bromomethane

Concen: 19.093 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 94 Resp: 85783

Ion Ratio Lower Upper

94 100

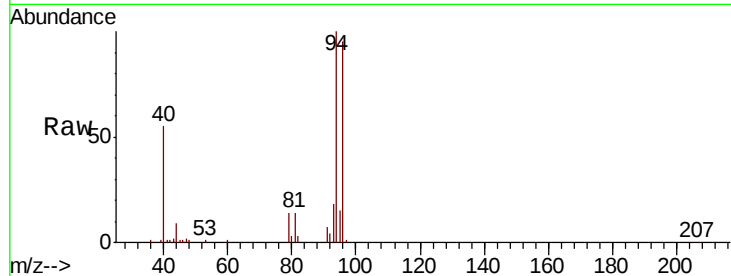
96 94.5 77.0 115.4

Manual Integrations

APPROVED

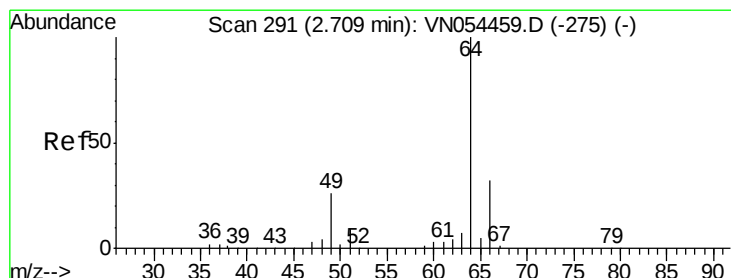
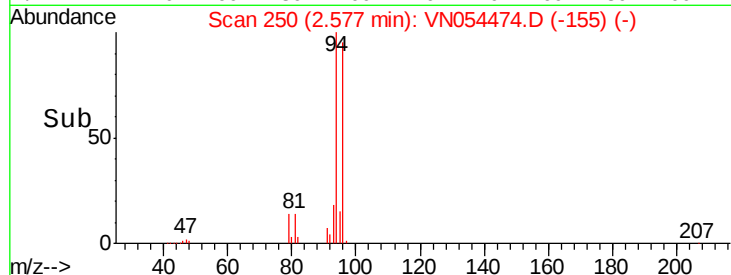
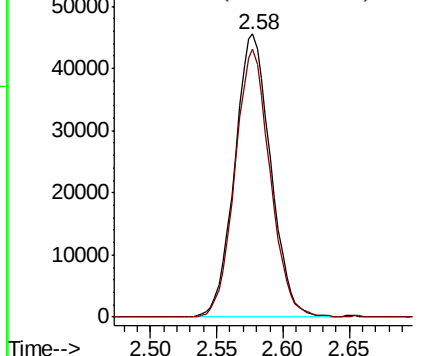
MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.255 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054474.D

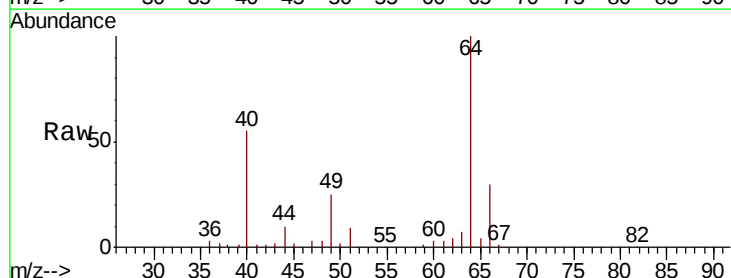
Acq: 20 Mar 2019 20:07

Tgt Ion: 64 Resp: 84411

Ion Ratio Lower Upper

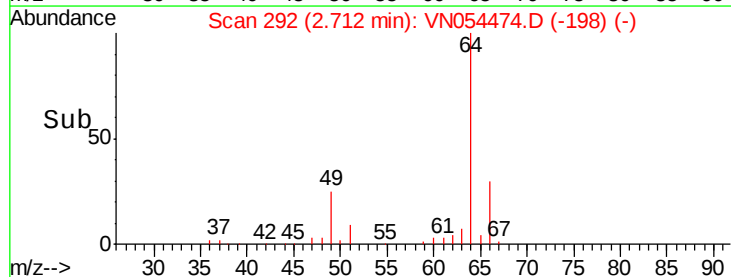
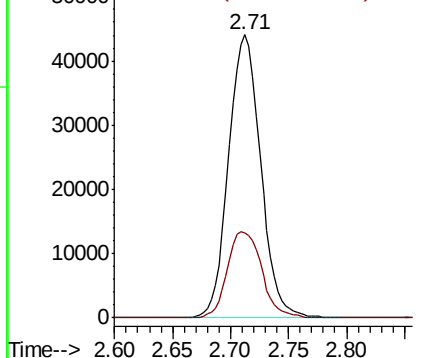
64 100

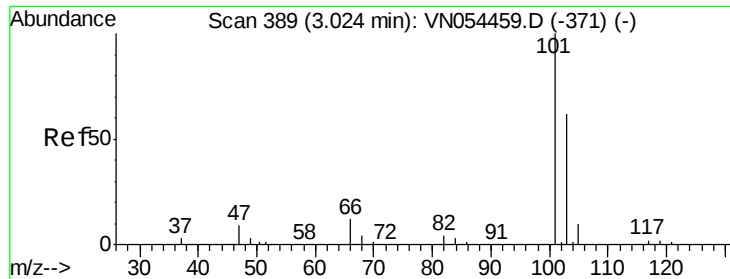
66 30.2 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

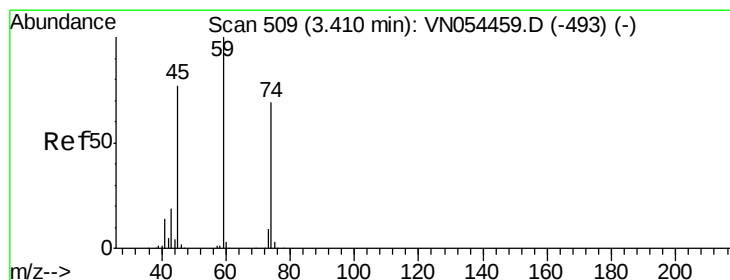
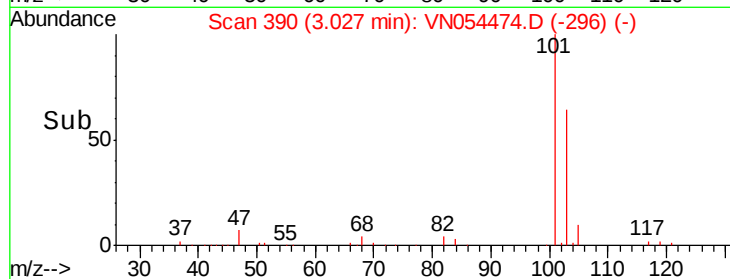
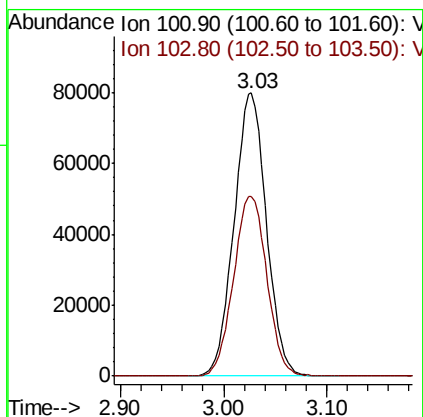
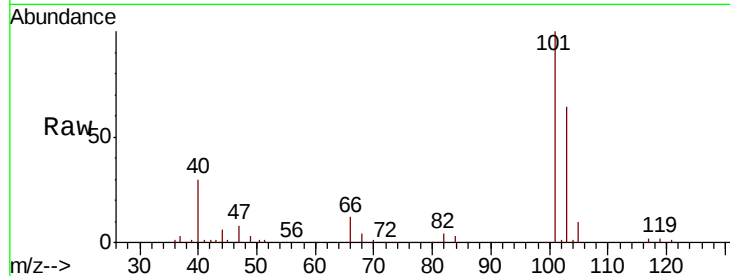
Trichlorofluoromethane
Concen: 20.678 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		174482		
103	63.6	51.4	77.2		

Manual Integrations
APPROVED

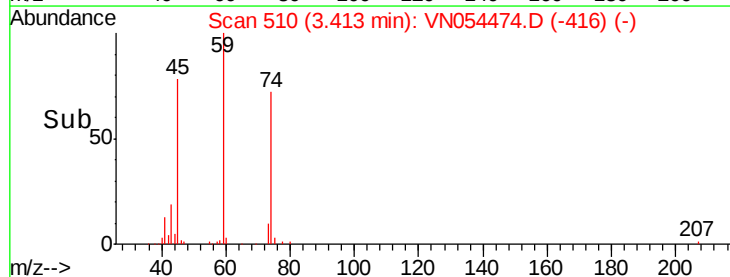
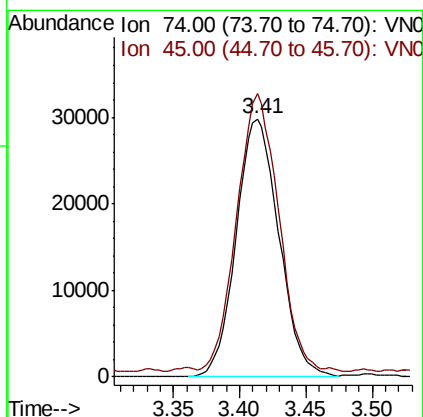
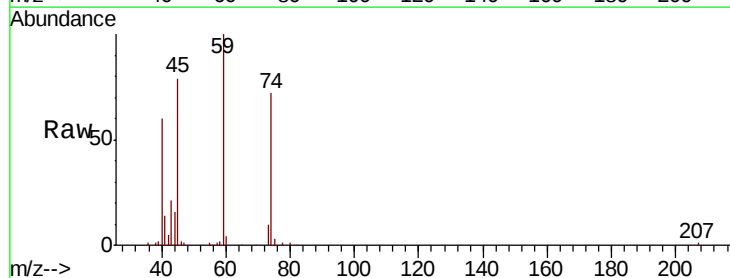
MMDadoda
3/22/2019 3:48:29 PM

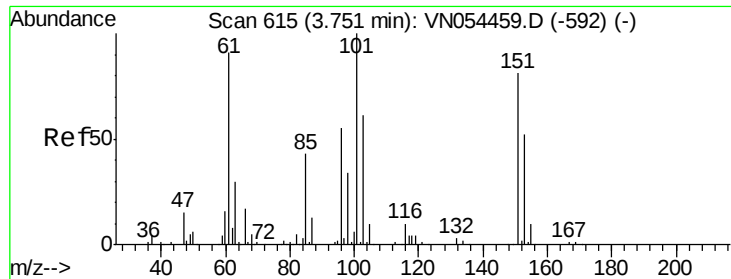


#8

Diethyl Ether
Concen: 20.582 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		66791		
45	105.7	43.1	129.4		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.132 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

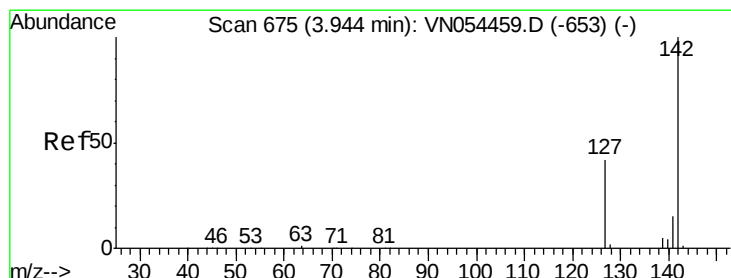
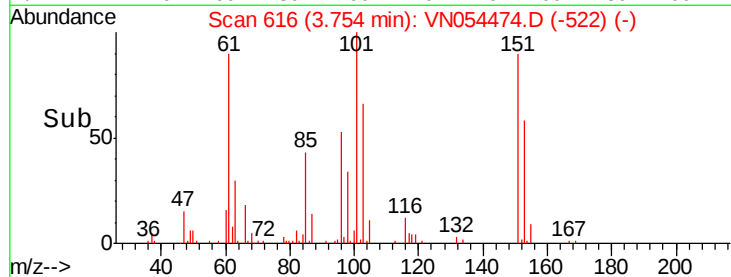
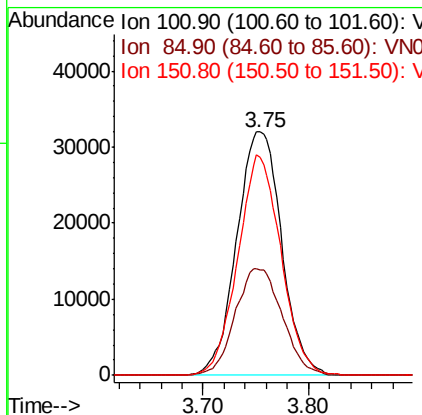
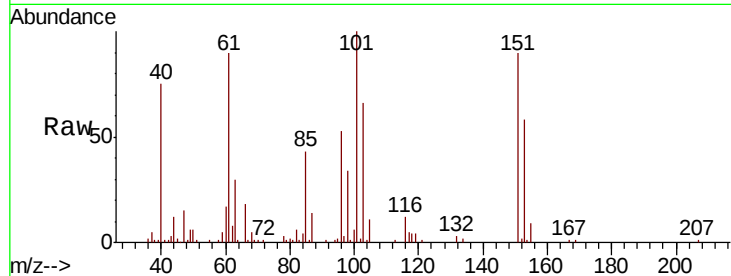
ClientSampleId :

VN0320MBSD01

Tot Ion:	101	Resp:	94877
Ion Ratio	Lower	Upper	
101	100		
85	45.7	32.4	48.6
151	86.6	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM



#10

Methyl Iodide

Concen: 19.734 ug/l

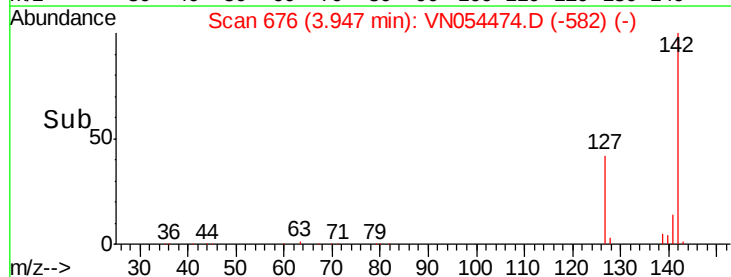
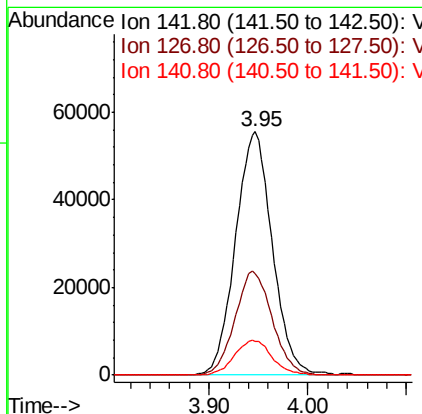
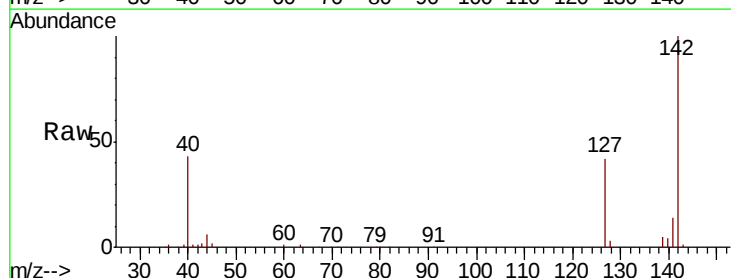
RT: 3.95 min Scan# 676

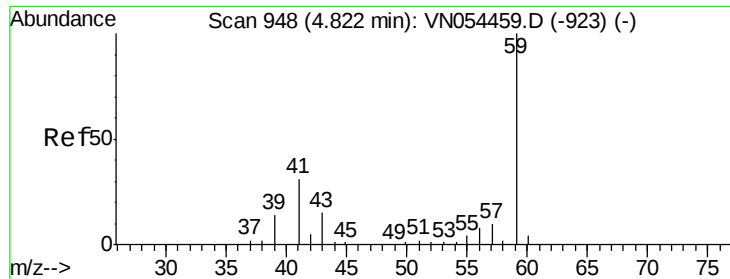
Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Tgt Ion:	142	Resp:	143952
Ion Ratio	Lower	Upper	
142	100		
127	43.1	30.3	45.5
141	14.5	11.2	16.8





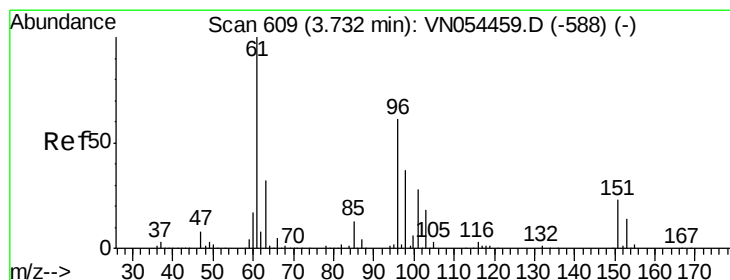
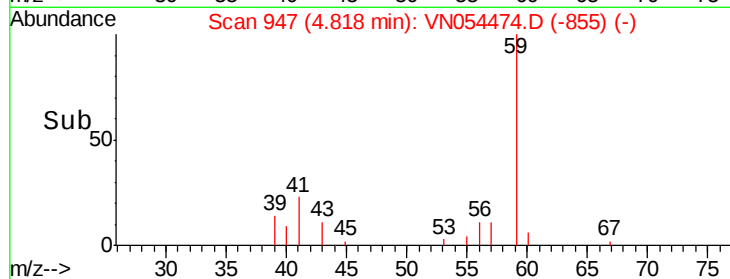
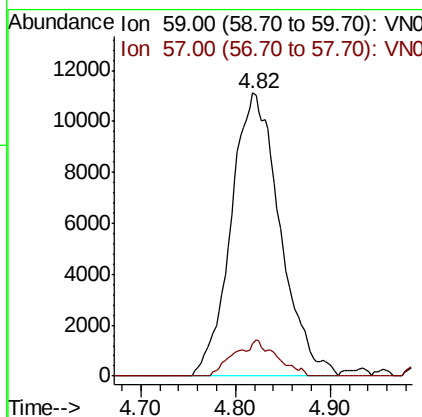
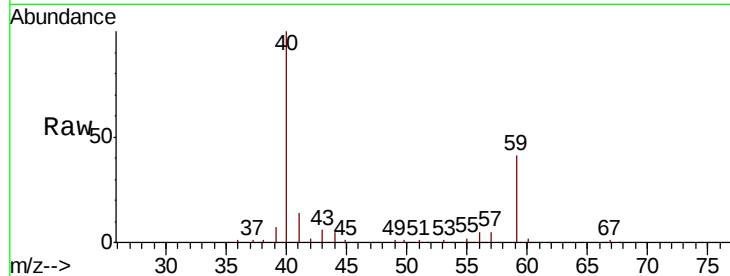
#11
Tert butyl alcohol
Concen: 99.818 ug/l
RT: 4.82 min Scan# 947
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ion	Ratio	Lower	Upper
59	59	100		
57	57	10.9	9.0	13.6

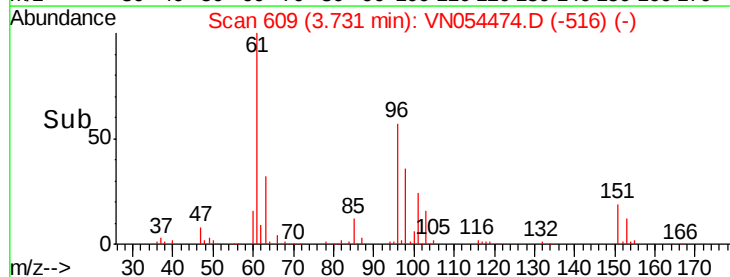
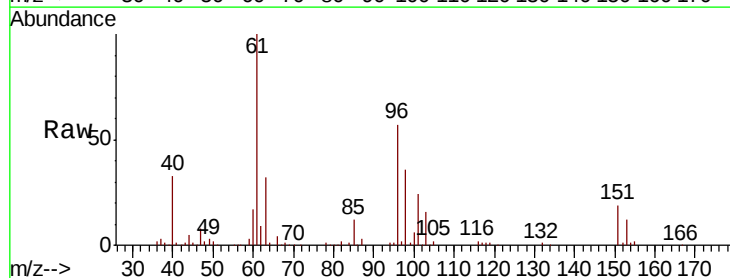
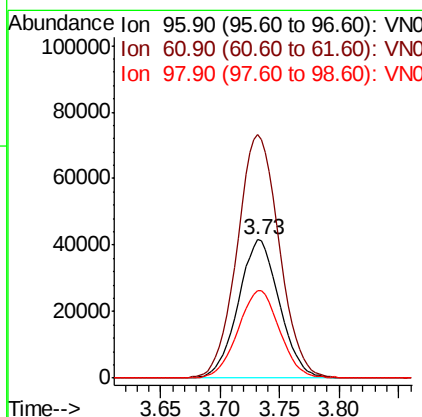
Manual Integrations
APPROVED

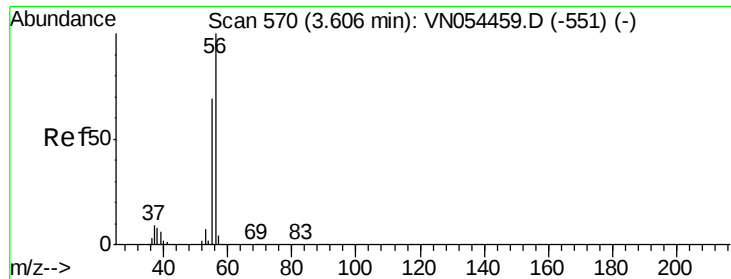
MMDadoda
3/22/2019 3:48:29 PM



#12
1,1-Dichloroethene
Concen: 19.432 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ion	Ratio	Lower	Upper
96	96	100		
61	61	175.5	116.5	174.7#
98	98	63.5	51.0	76.4





#13

Acrolein

Concen: 107.234 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 56 Resp: 59293

Ion Ratio Lower Upper

56 100

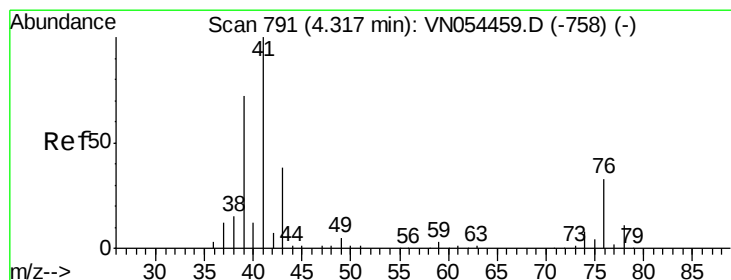
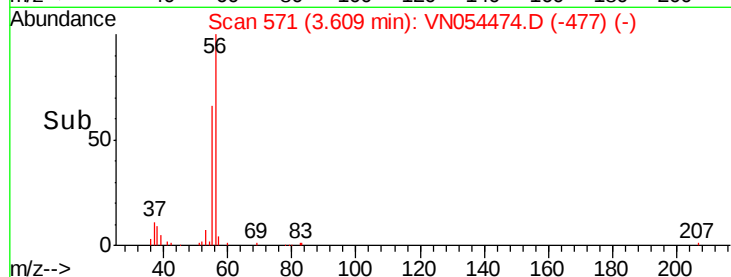
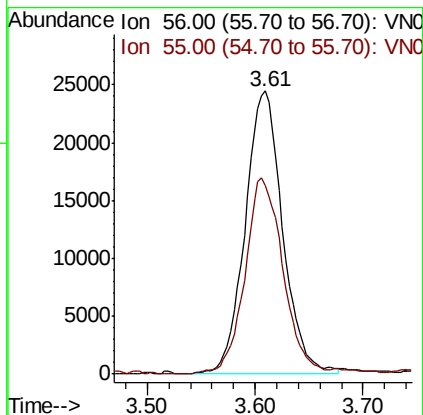
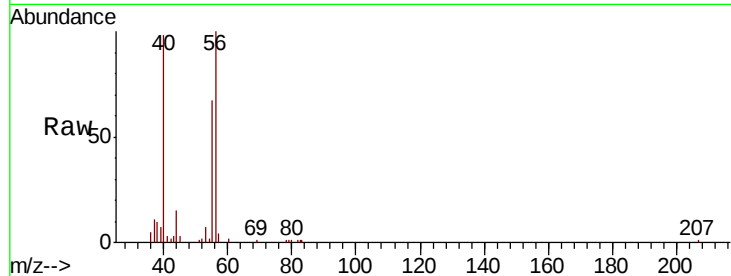
55 70.1 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



#14

Allyl chloride

Concen: 20.898 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

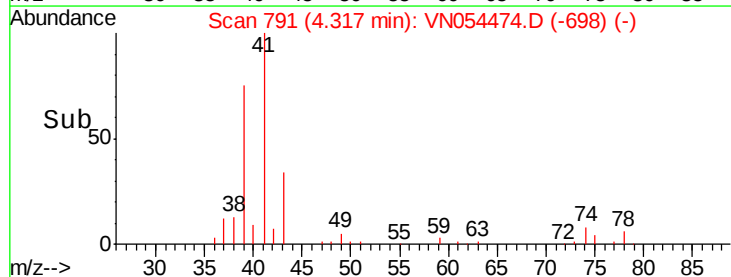
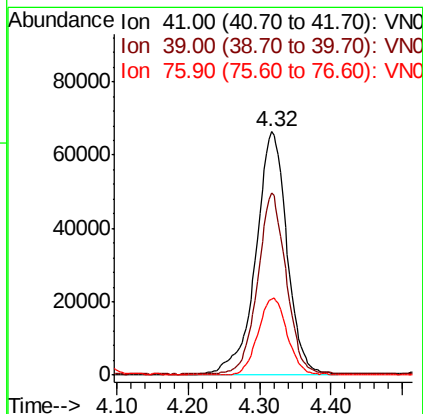
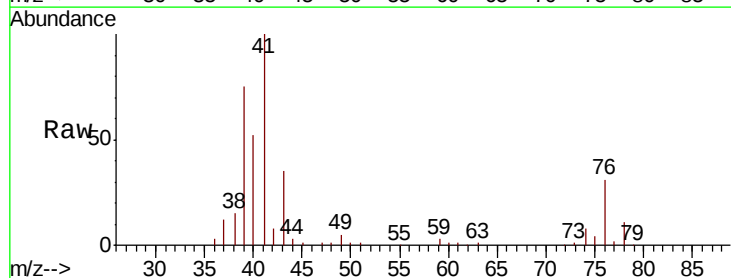
Tgt Ion: 41 Resp: 201957

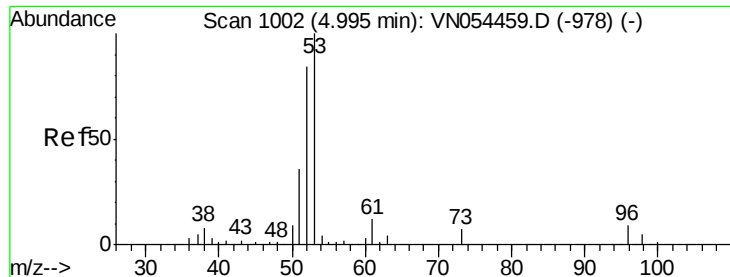
Ion Ratio Lower Upper

41 100

39 67.0 58.2 87.4

76 29.5 31.7 47.5#





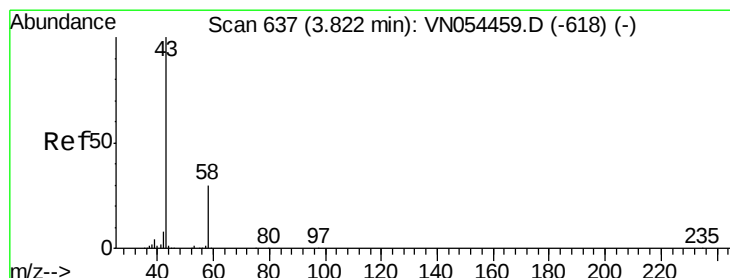
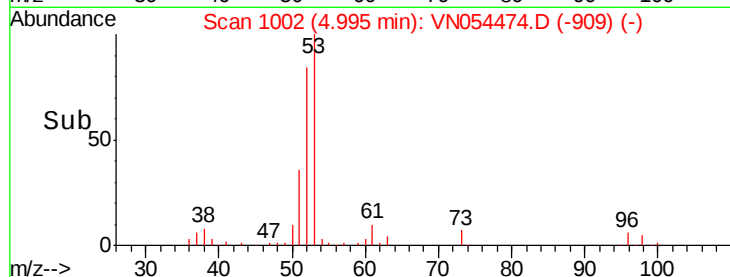
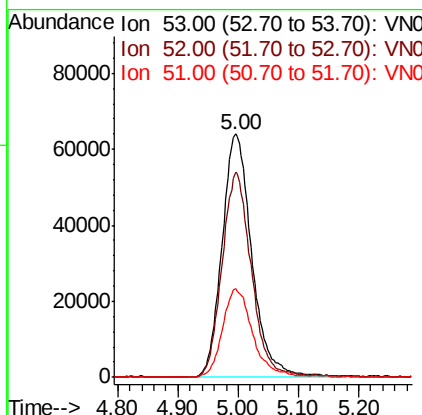
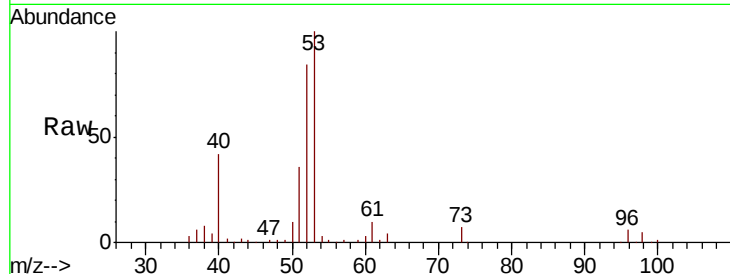
#15
 Acrylonitrile
 Concen: 110.528 ug/l
 RT: 5.00 min Scan# 1002
 Delta R.T. -0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.4	99.6
51	36.9	29.6	44.4

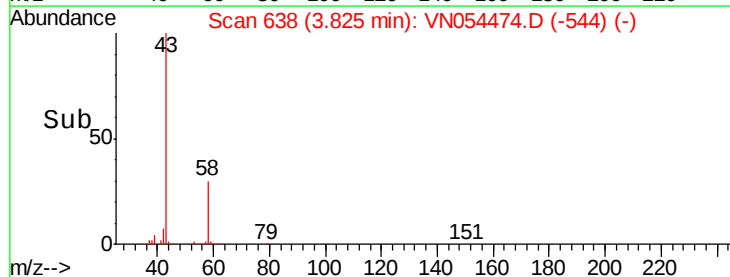
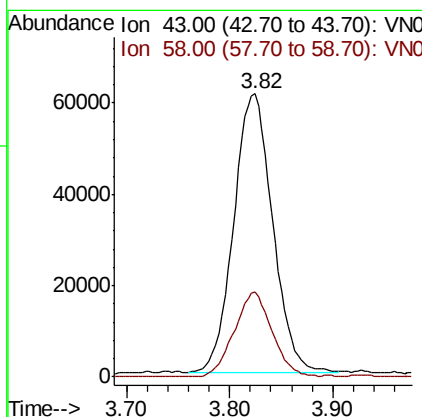
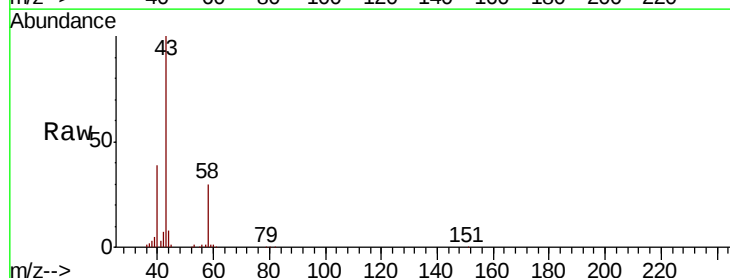
Manual Integrations
 APPROVED

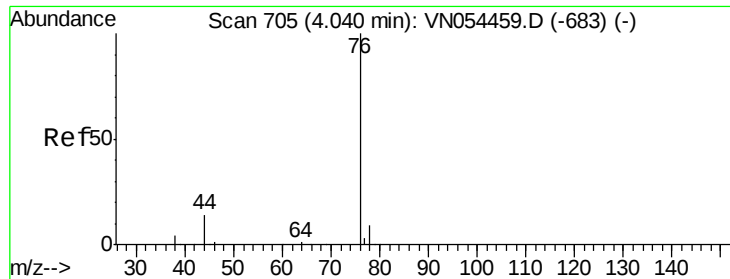
MMDadoda
 3/22/2019 3:48:29 PM



#16
 Acetone
 Concen: 80.474 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.2	29.9	44.9





#17

Carbon Disulfide

Concen: 18.091 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 76 Resp: 248759

Ion Ratio Lower Upper

76 100

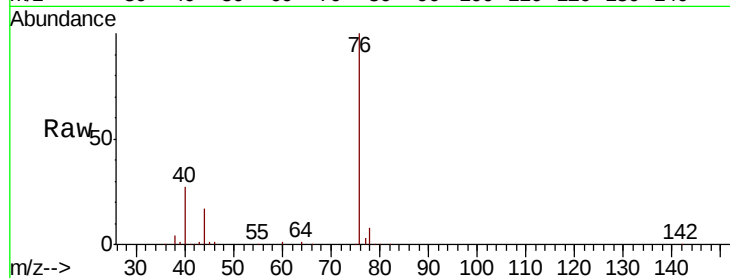
78 8.4 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

100000

80000

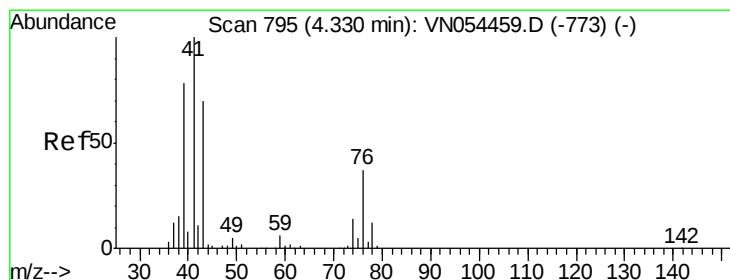
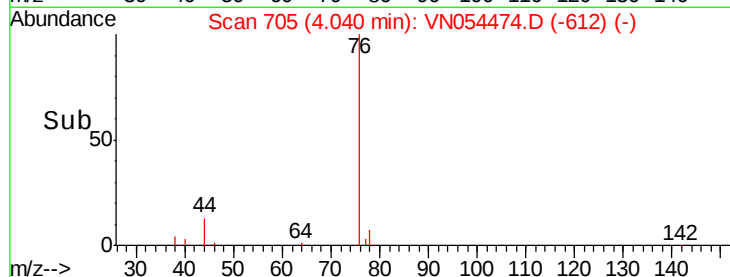
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 22.250 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054474.D

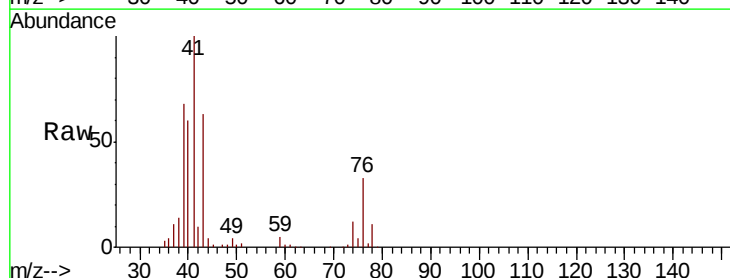
Acq: 20 Mar 2019 20:07

Tgt Ion: 43 Resp: 98676

Ion Ratio Lower Upper

43 100

74 20.9 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

40000

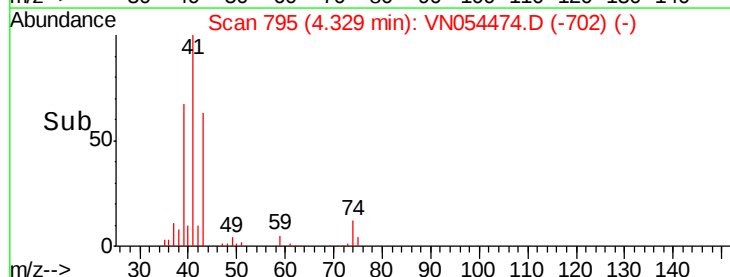
30000

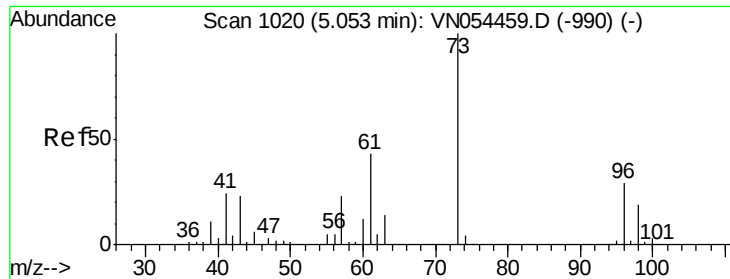
20000

10000

0

Time-->





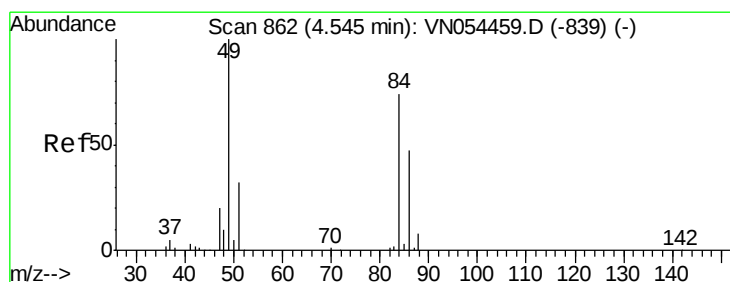
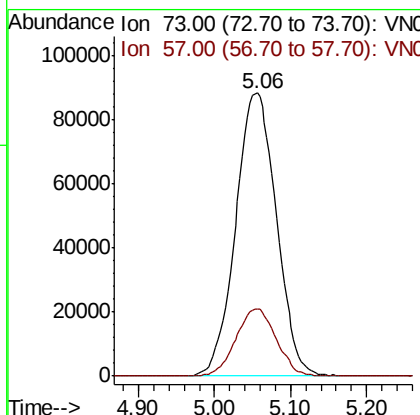
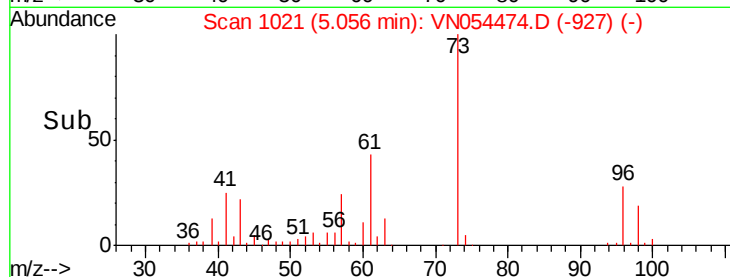
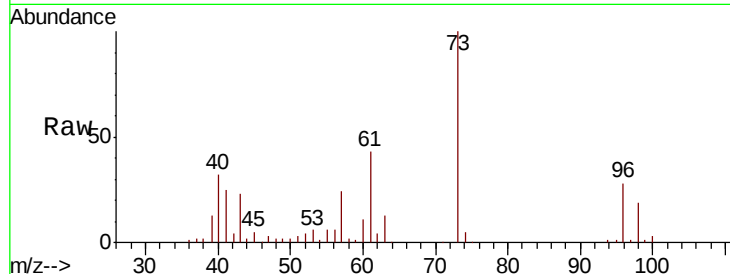
#19
Methvl tert-butvl Ether
Concen: 21.924 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion: 73 Resp: 328367
Ion Ratio Lower Upper
73 100
57 23.8 16.8 25.2

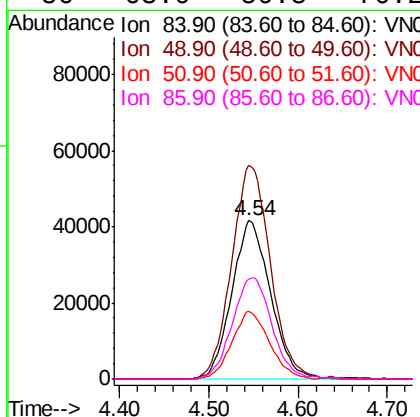
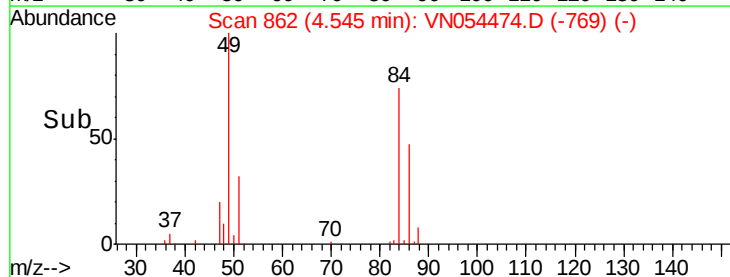
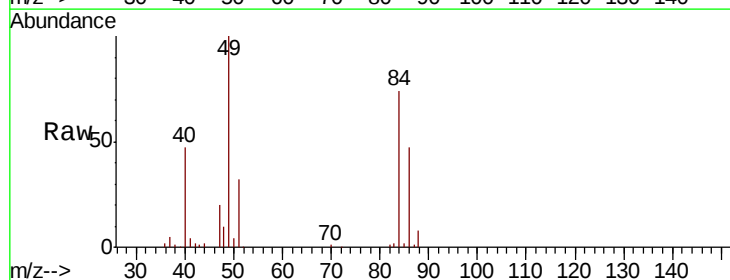
Manual Integrations
APPROVED

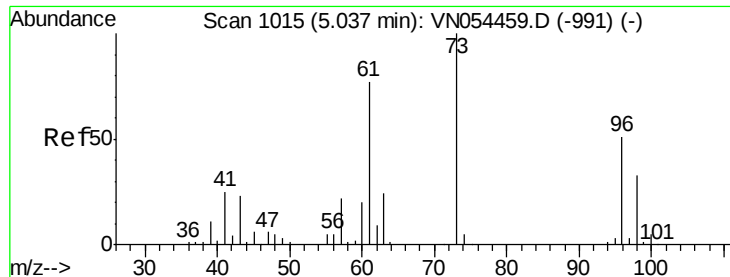
MMDadoda
3/22/2019 3:48:29 PM



#20
Methylene Chloride
Concen: 21.314 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion: 84 Resp: 125010
Ion Ratio Lower Upper
84 100
49 134.9 89.7 134.5#
51 43.2 28.2 42.4#
86 63.0 50.8 76.2





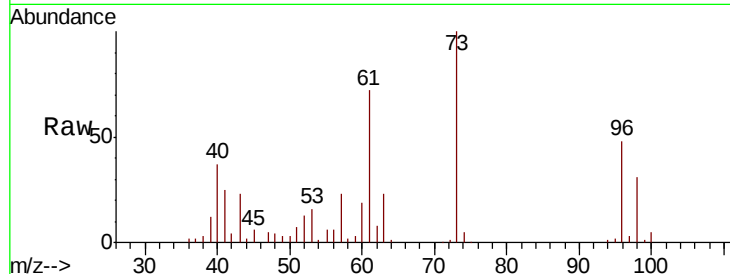
#21
trans-1,2-Dichloroethene
Concen: 21.924 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	151.3	102.8	154.2
98	64.0	50.0	75.0

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM

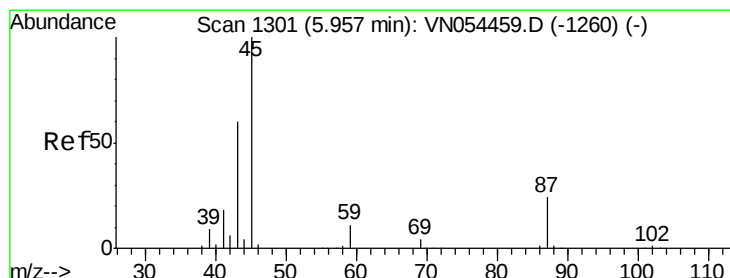
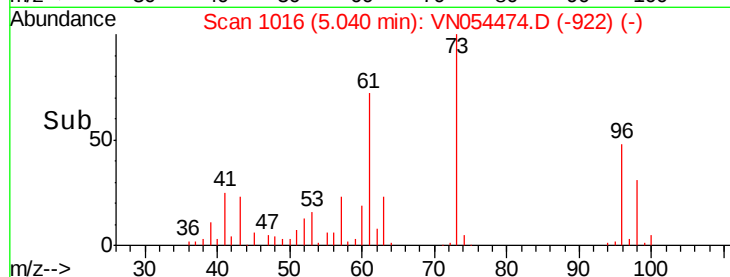
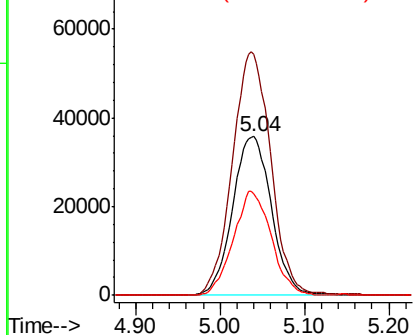


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22
Diisopropyl ether
Concen: 22.436 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.8	48.2	72.2
87	24.4	24.9	37.3
59	10.4	9.5	14.3

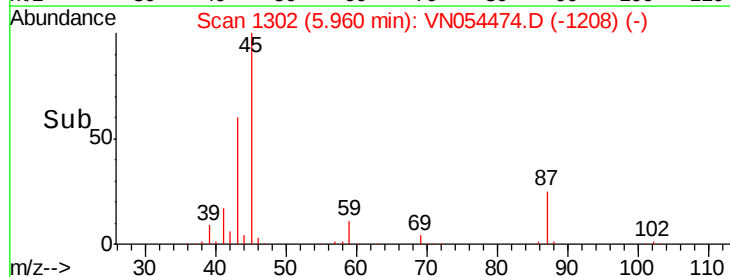
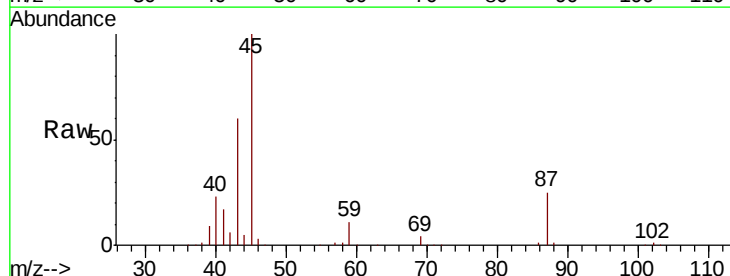
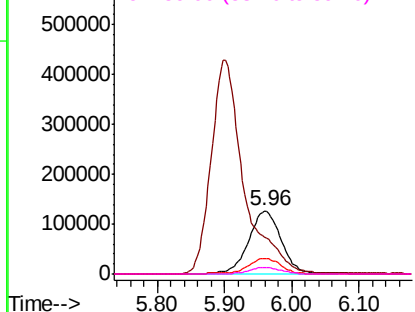
Abundance

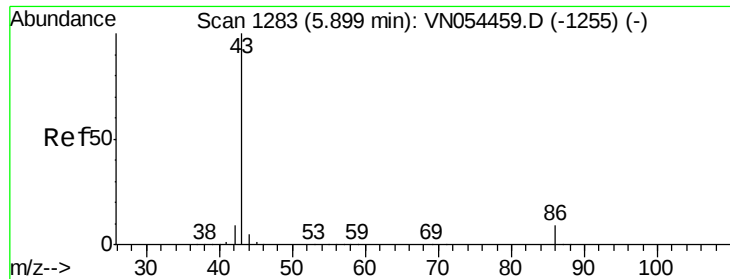
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 108.463 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 43 Resp: 1460201

Ion Ratio Lower Upper

43 100

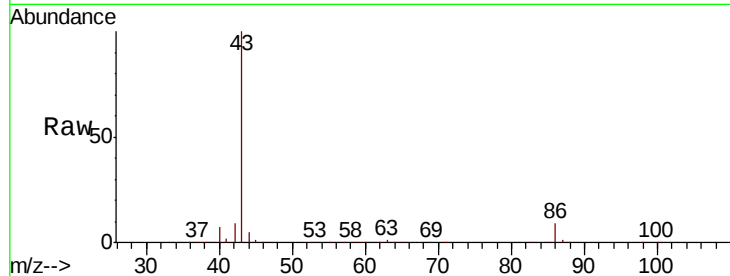
86 8.6 9.1 13.7#

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-1255) (-)

Ion 86.00 (85.70 to 86.70): VN054459.D (-1255) (-)

500000

400000

300000

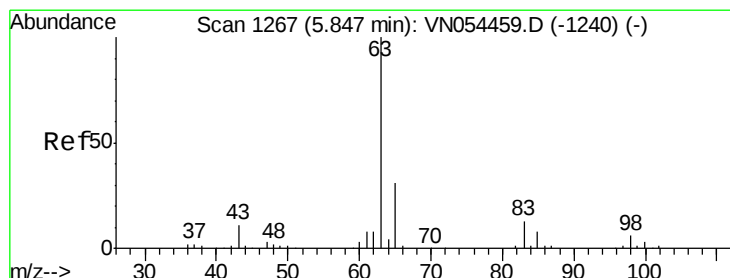
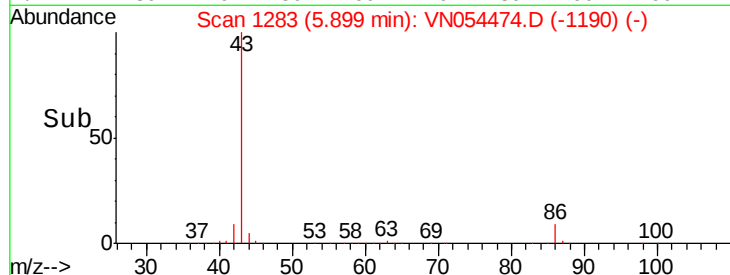
200000

100000

0

5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 22.005 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

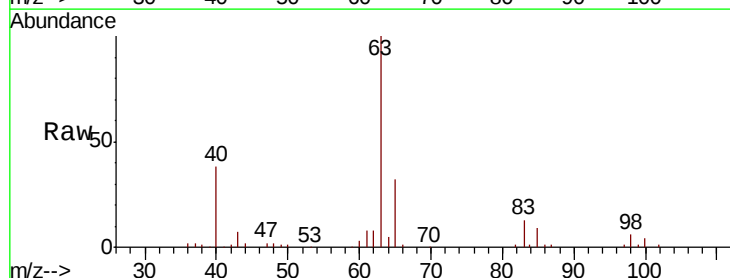
Tgt Ion: 63 Resp: 225847

Ion Ratio Lower Upper

63 100

98 6.1 3.5 10.5

100 4.4 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN054459.D (-1240) (-)

Ion 97.90 (97.60 to 98.60): VN054459.D (-1240) (-)

Ion 99.90 (99.60 to 100.60): VN054459.D (-1240) (-)

80000

60000

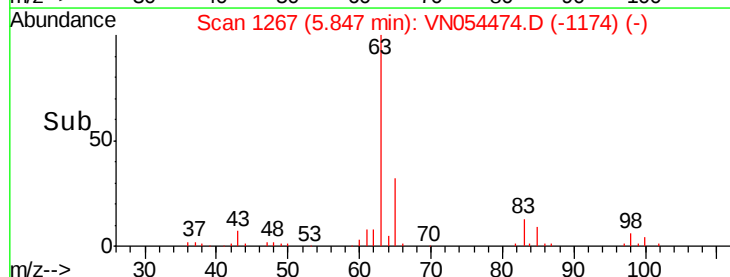
40000

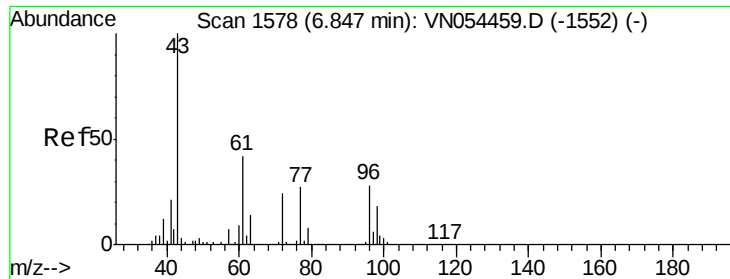
20000

0

5.70 5.80 5.90 6.00

Time-->





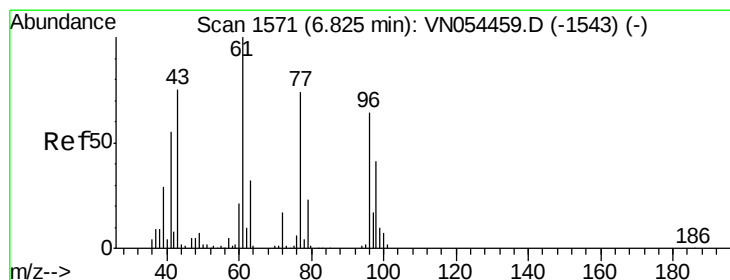
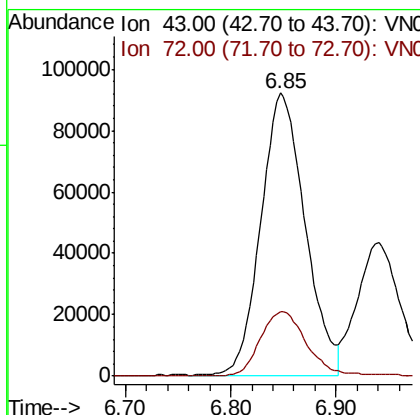
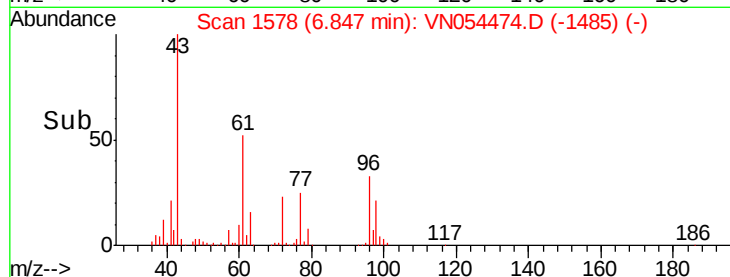
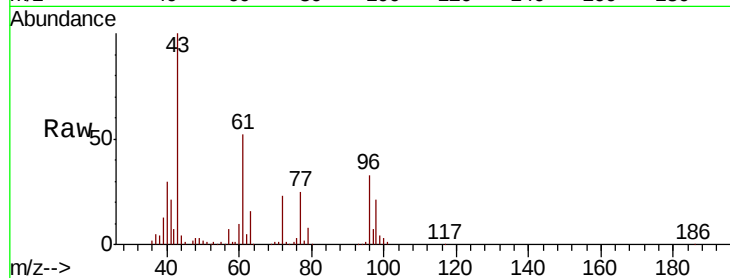
#25
2-Butanone
Concen: 104.959 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampled :
VN0320MBSD01

Tot Ion: 43 Resp: 267522
Ion Ratio Lower Upper
43 100
72 22.8 23.0 34.6#

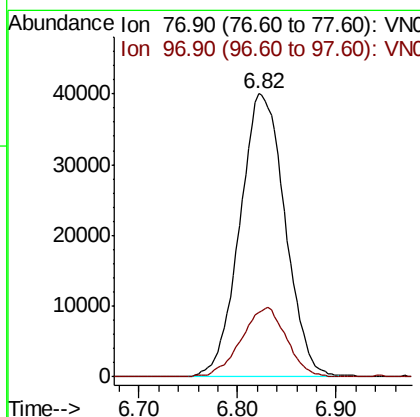
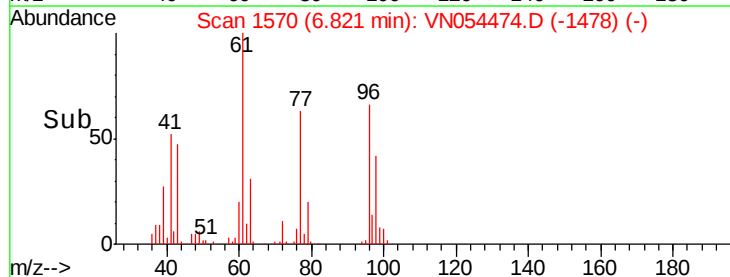
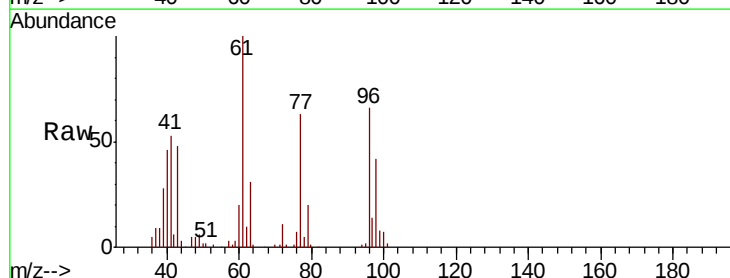
Manual Integrations
APPROVED

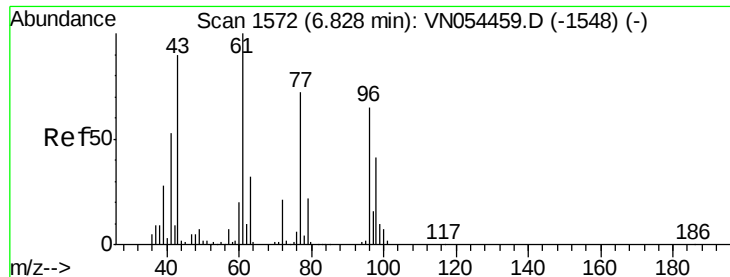
MMDadoda
3/22/2019 3:48:29 PM



#26
2,2-Dichloropropane
Concen: 17.349 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion: 77 Resp: 126930
Ion Ratio Lower Upper
77 100
97 24.5 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.480 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

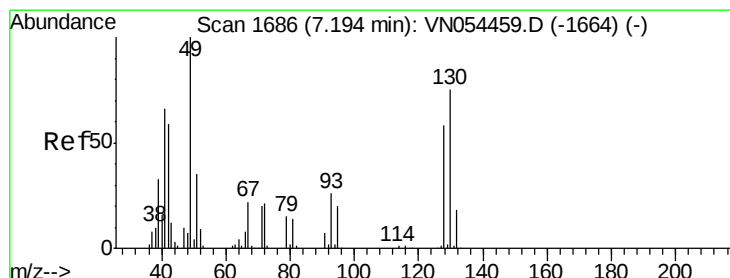
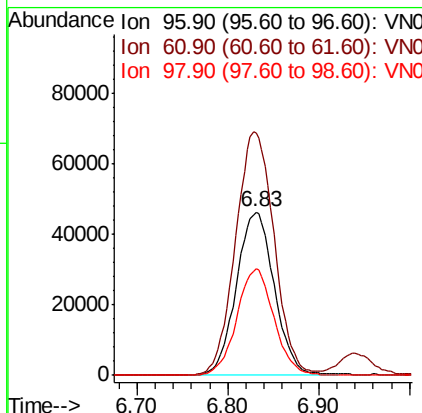
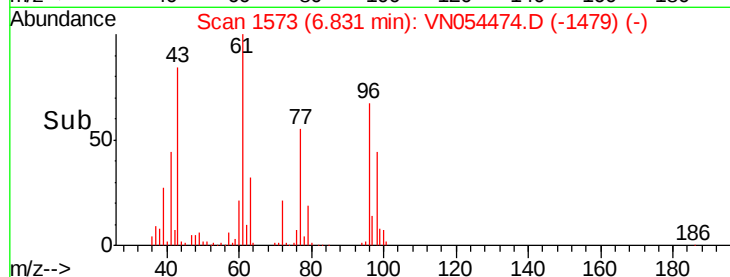
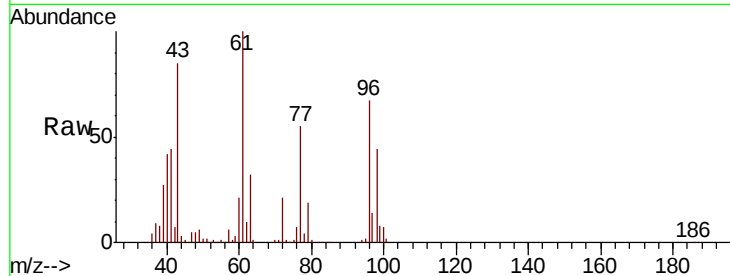
ClientSampleId :

VN0320MBSD01

Tot Ion:	96	Resp:	134260
Ion	Ratio	Lower	Upper
96	100		
61	151.4	0.0	273.0
98	63.8	0.0	130.6

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM



#28

Bromochloromethane

Concen: 21.105 ug/l

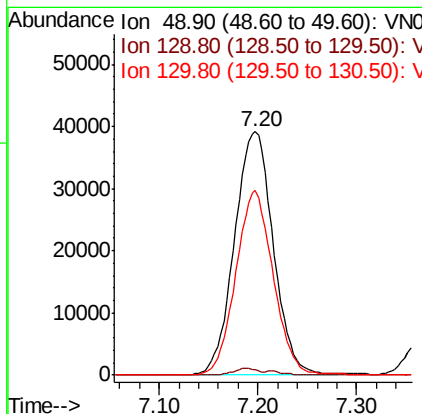
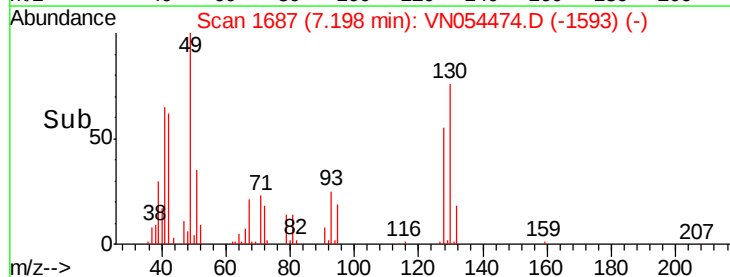
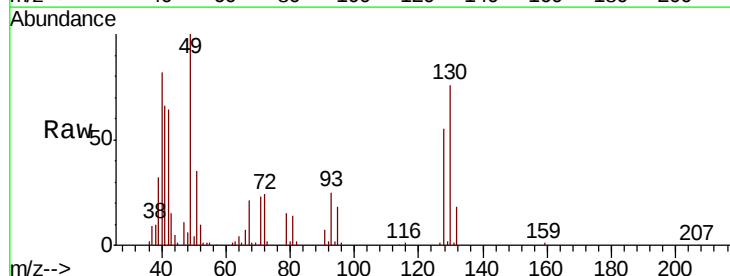
RT: 7.20 min Scan# 1687

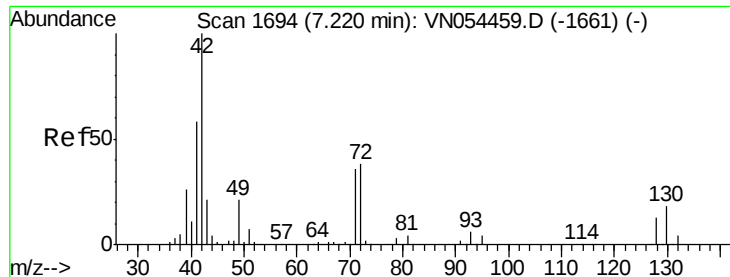
Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Tgt Ion:	49	Resp:	106618
Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	4.6
130	72.7	76.7	115.1#





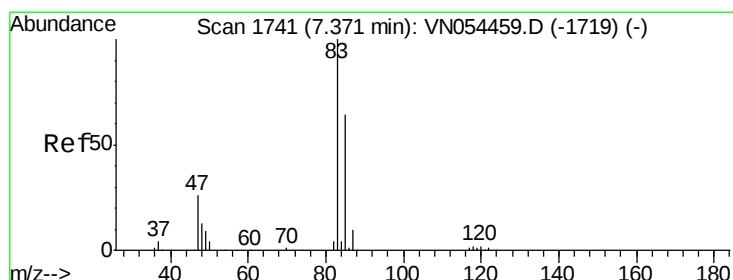
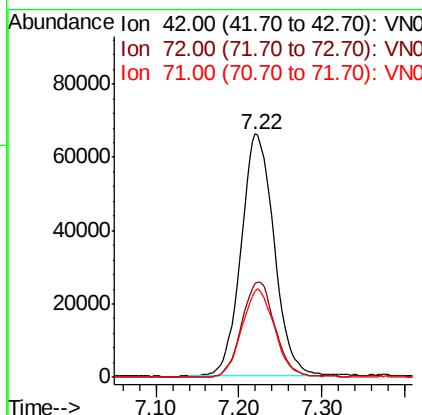
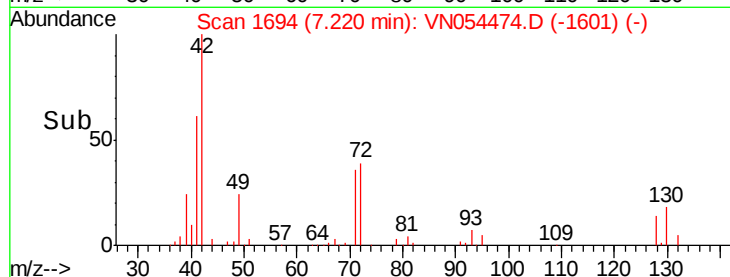
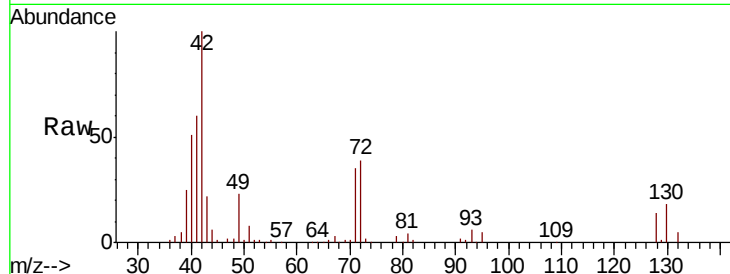
#29
Tetrahydrofuran
Concen: 111.092 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.6	37.8	56.6
71	36.2	36.2	54.2

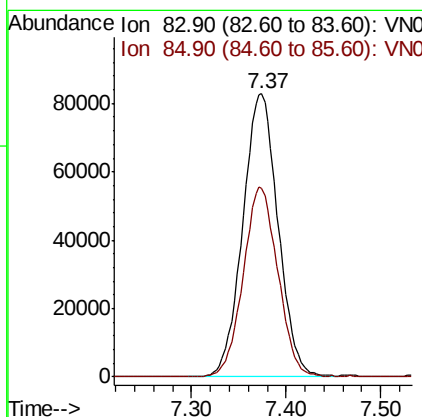
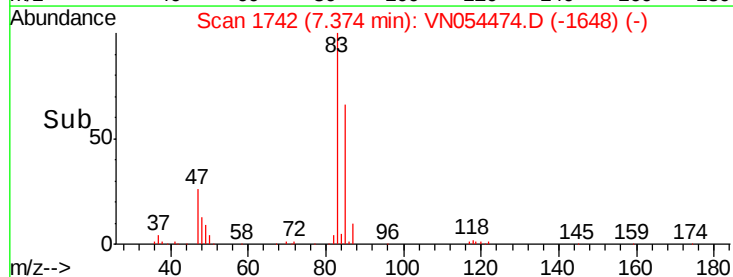
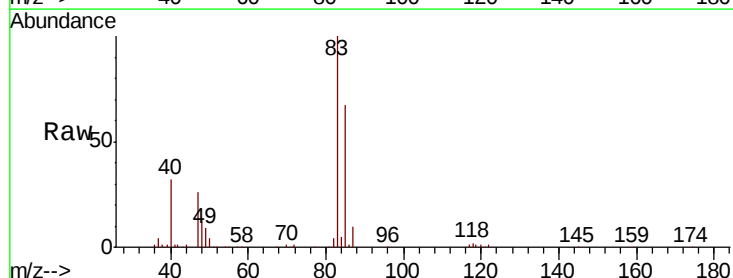
Manual Integrations
APPROVED

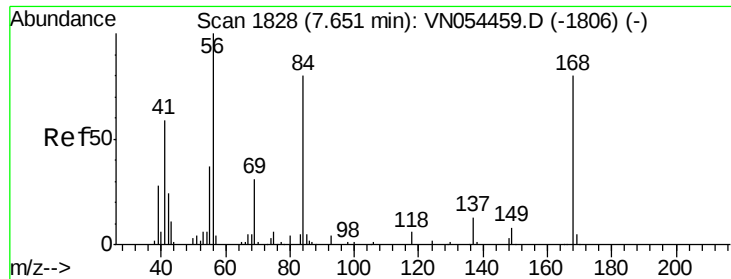
MMDadoda
3/22/2019 3:48:29 PM



#30
Chloroform
Concen: 21.464 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	52.2	78.4





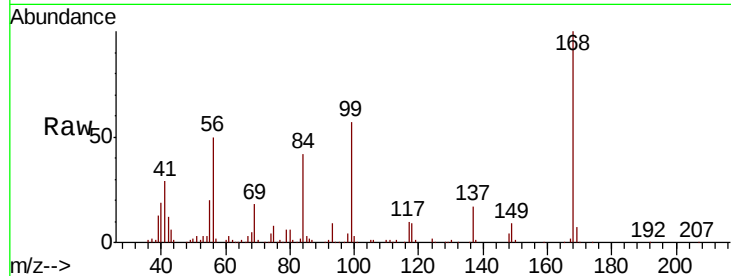
#31
Cyclohexane
Concen: 21.781 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

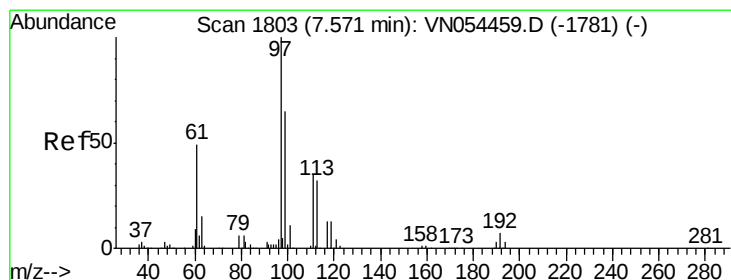
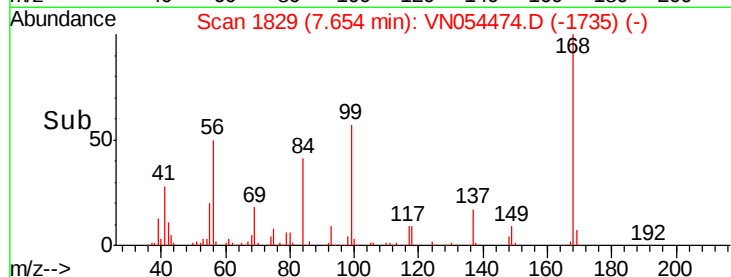
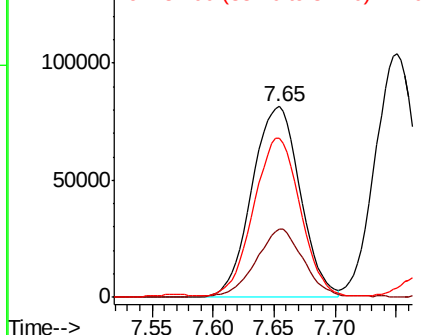
Tot Ion	Ratio	Lower	Upper
56	100		
69	35.5	27.8	41.6
84	82.3	74.6	111.8

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM

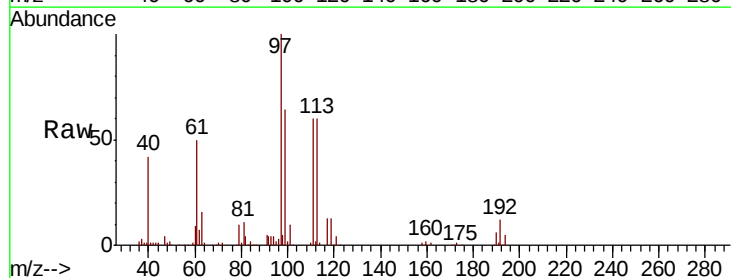


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

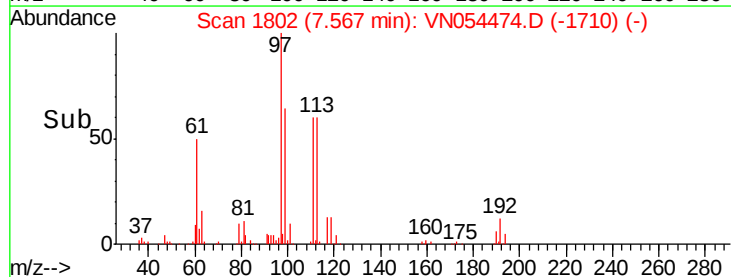
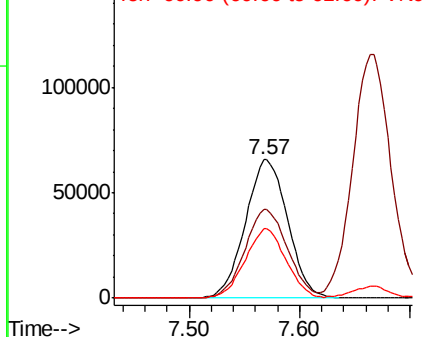


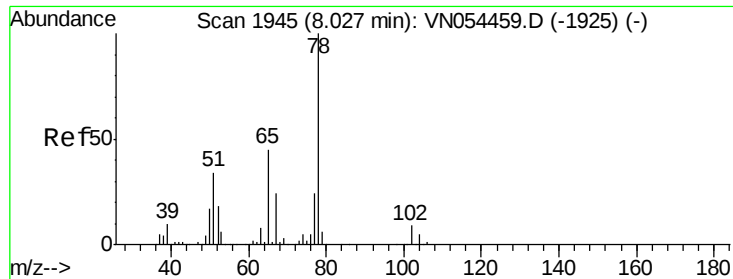
#32
1,1,1-Trichloroethane
Concen: 21.141 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	48.4	33.6	50.4



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





#33

1,2-Dichloroethane-d4

Concen: 53.595 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 65 Resp: 354695

Ion Ratio Lower Upper

65 100

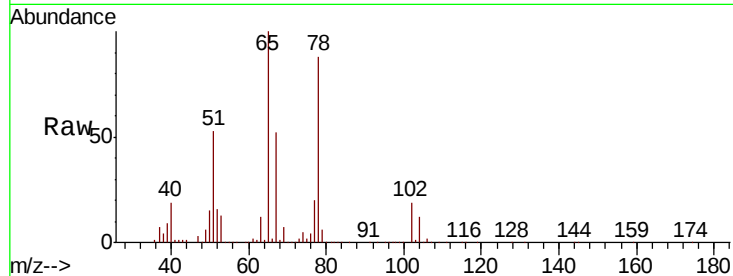
67 52.6 0.0 104.6

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 64.90 (64.60 to 65.60): VN054459.D (-1925) (-)

Ion 66.90 (66.60 to 67.60): VN054459.D (-1925) (-)

8.03

150000

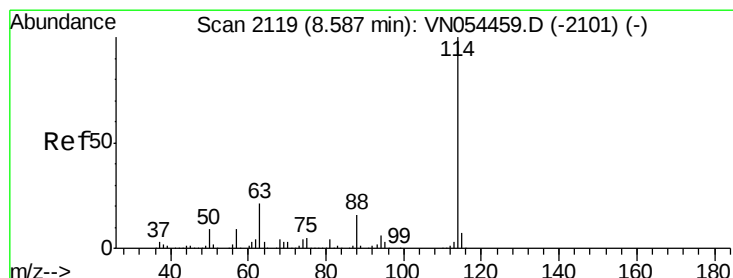
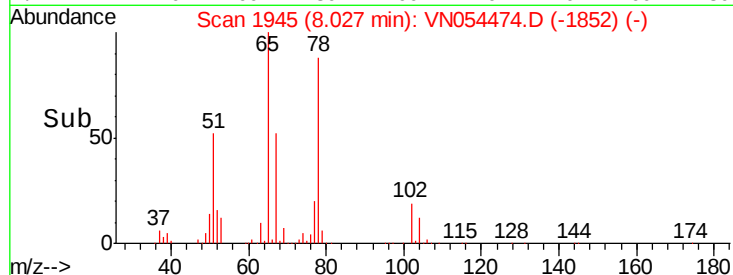
100000

50000

0

7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

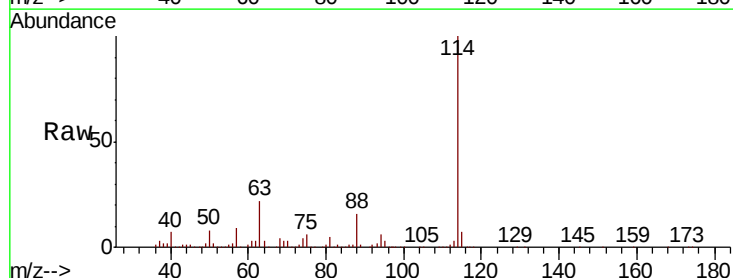
Tgt Ion: 114 Resp: 890464

Ion Ratio Lower Upper

114 100

63 21.9 0.0 35.2

88 16.0 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VN054459.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN054459.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN054459.D (-2101) (-)

8.59

500000

400000

300000

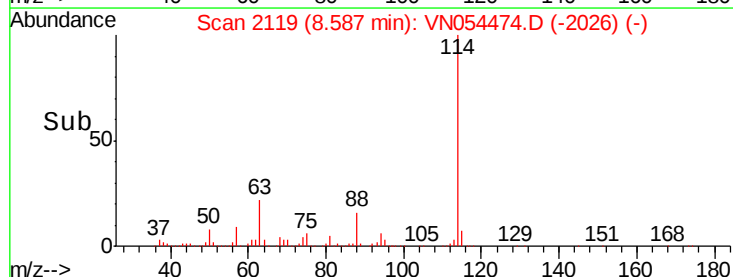
200000

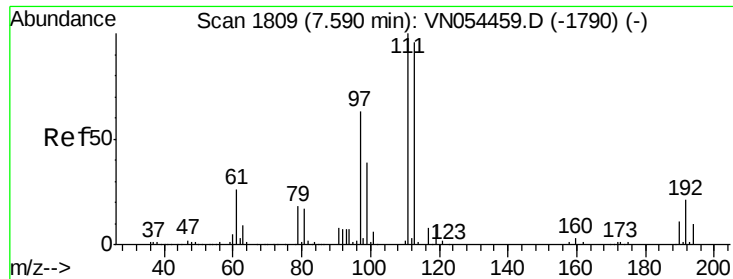
100000

0

8.50 8.60 8.70 8.80

Time-->





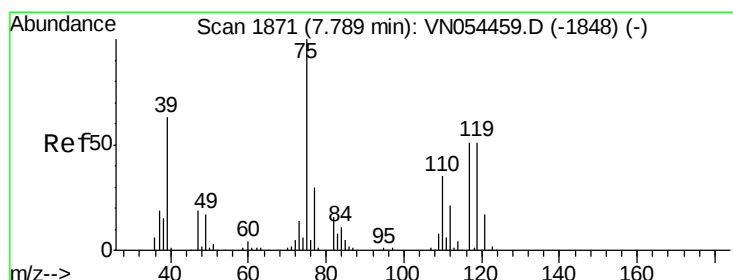
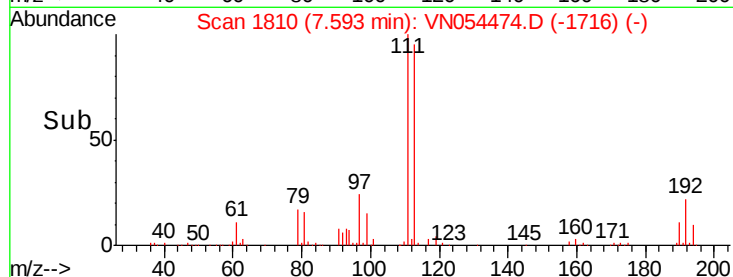
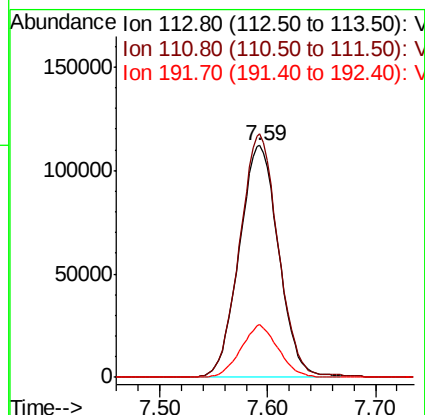
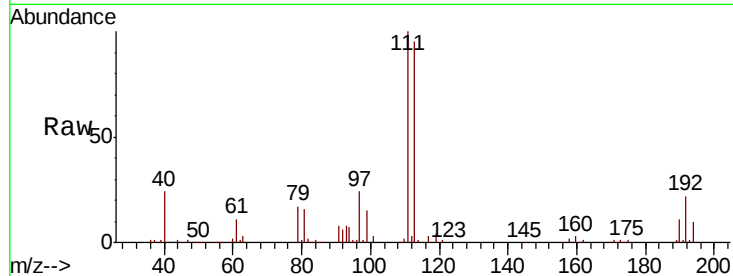
#35
 Dibromofluoromethane
 Concen: 49.506 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0320MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.5	82.2	123.4	
192	21.4	19.2	28.8	

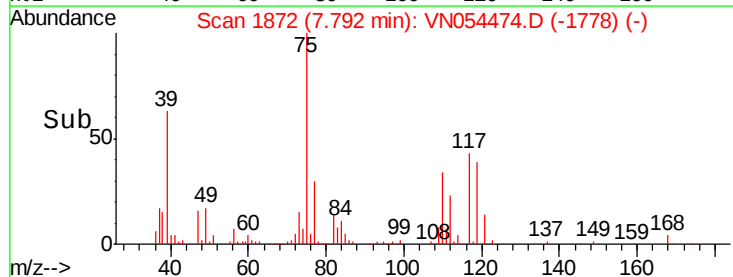
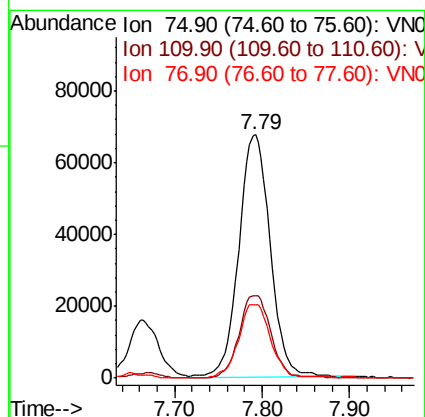
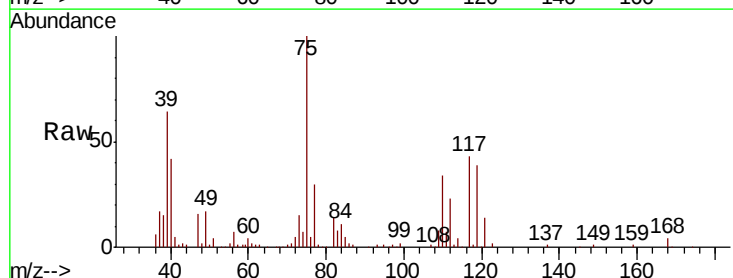
Manual Integrations
 APPROVED

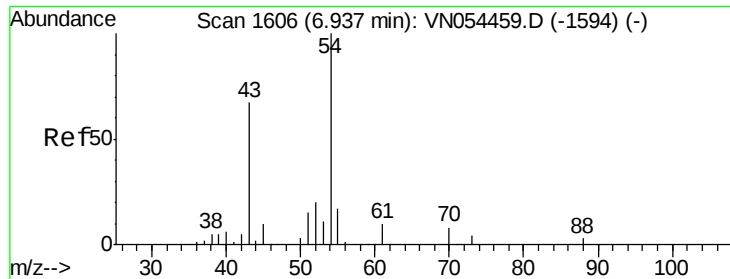
MMDadoda
 3/22/2019 3:48:29 PM



#36
 1,1-Dichloropropene
 Concen: 20.112 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	34.5	19.1	57.5	
77	30.6	25.0	37.4	





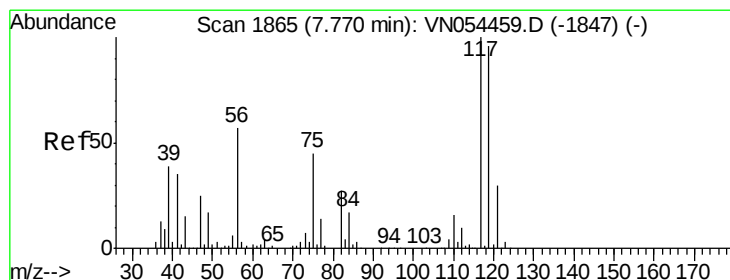
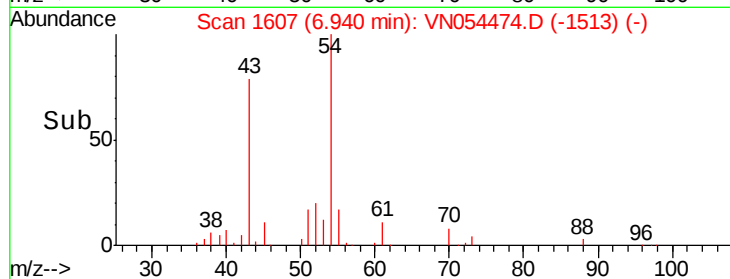
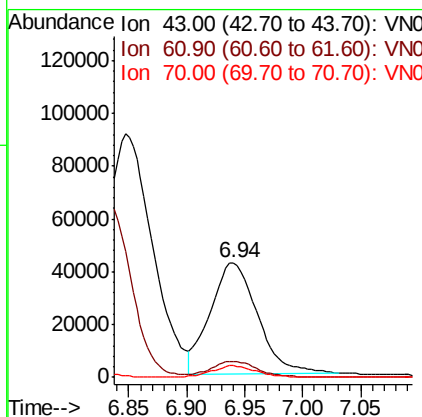
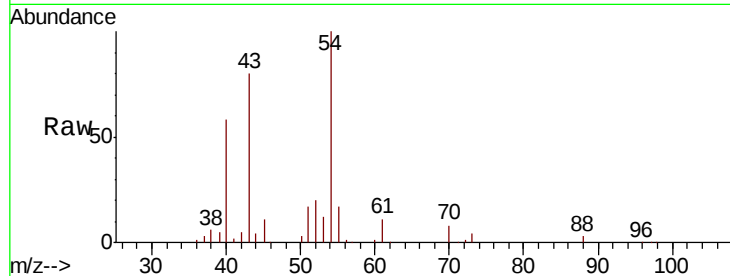
#37
Ethyl Acetate
Concen: 20.329 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	43	61	70	Resp	Lower	Upper
120384	100	13.0	9.9			
		11.8	8.4			
		17.6	12.6			

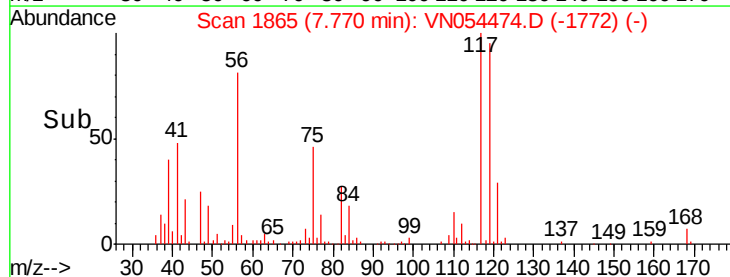
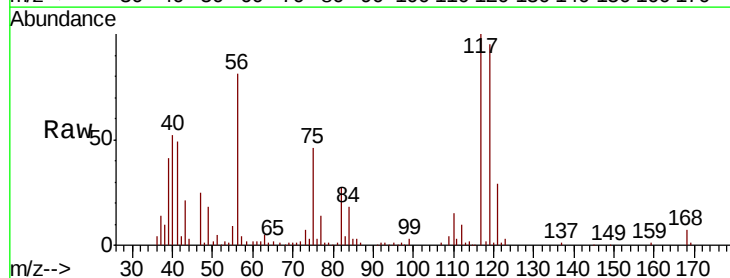
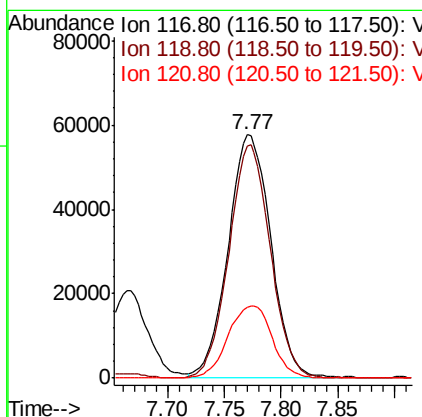
Manual Integrations
APPROVED

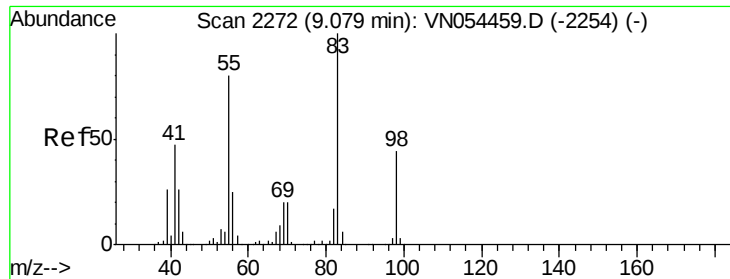
MMDadoda
3/22/2019 3:48:29 PM



#38
Carbon Tetrachloride
Concen: 18.590 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	117	119	121	Resp	Lower	Upper
150409	100	95.0	29.3			
		76.3	24.6			
		114.5	36.8			





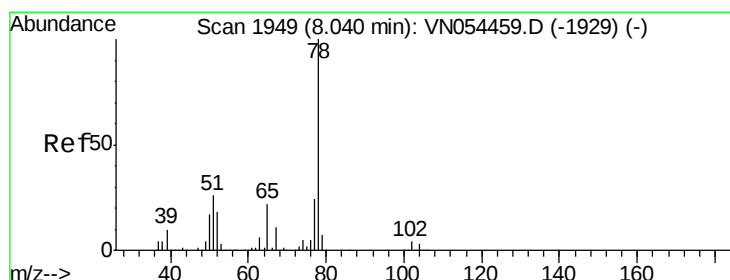
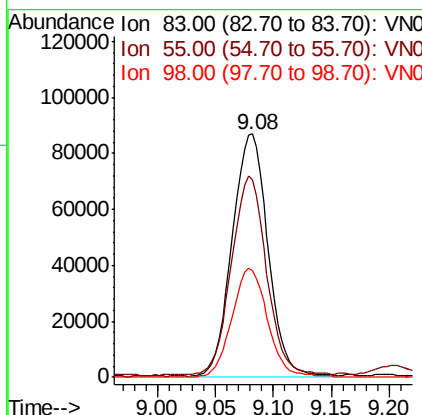
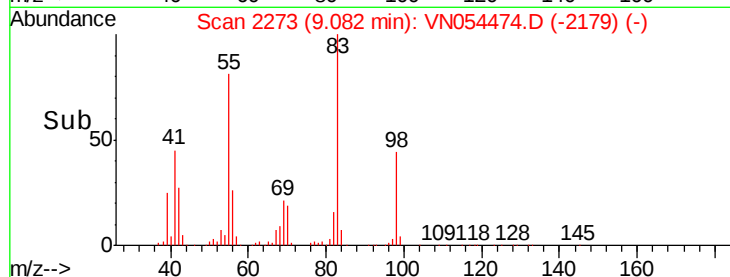
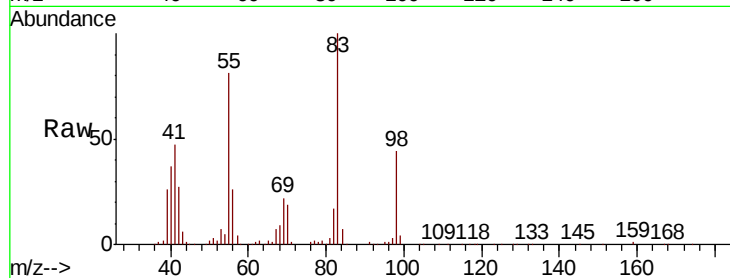
#39
Methvlcvclohexane
Concen: 19.468 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	185413		
55	80.0		56.6	84.8
98	43.5		38.4	57.6

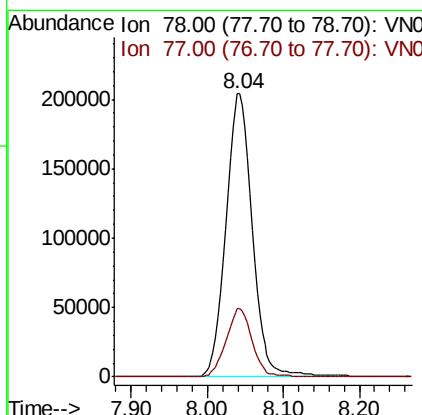
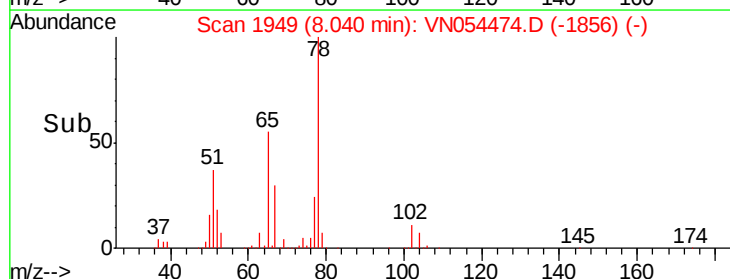
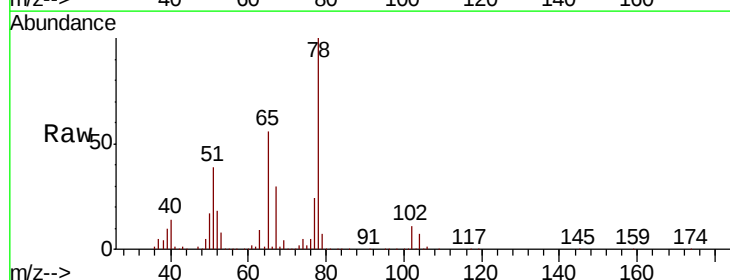
Manual Integrations
APPROVED

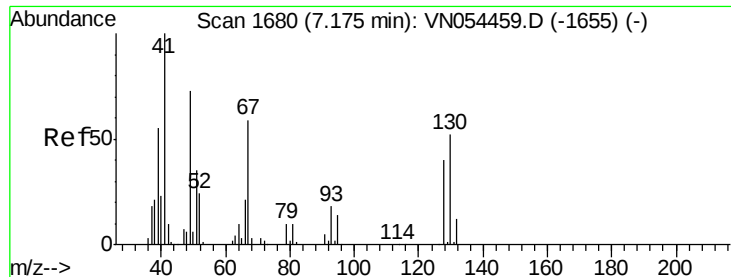
MMDadoda
3/22/2019 3:48:29 PM



#40
Benzene
Concen: 20.760 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	494269		
77	24.1		19.1	28.7





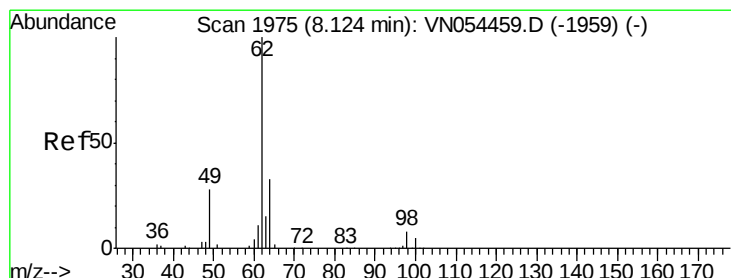
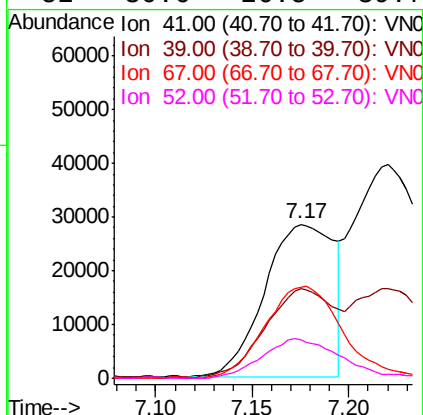
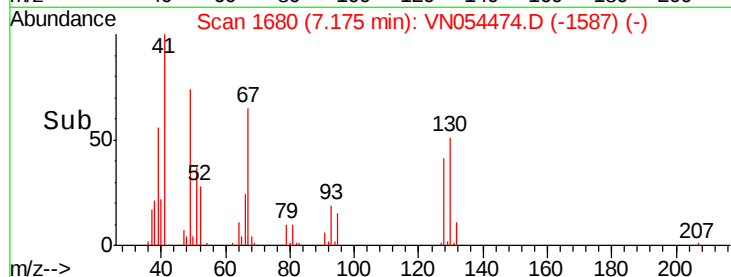
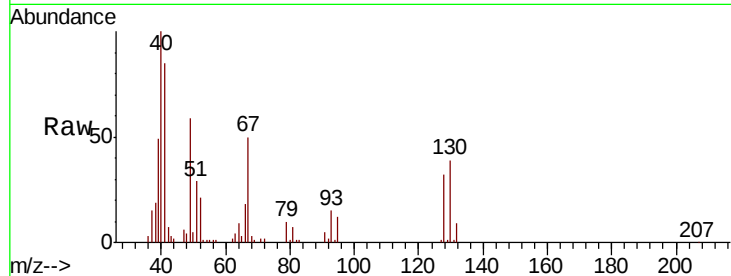
#41
Methacrylonitrile
Concen: 19.400 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.8	46.8	70.2
67	68.9	67.0	100.4
52	30.6	26.5	39.7

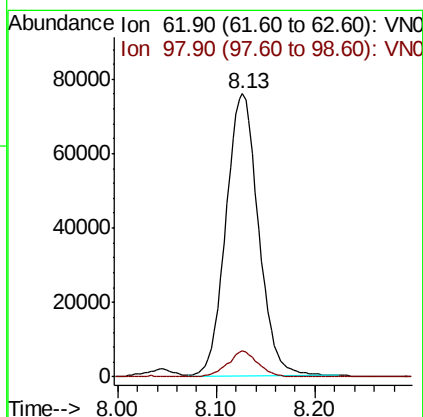
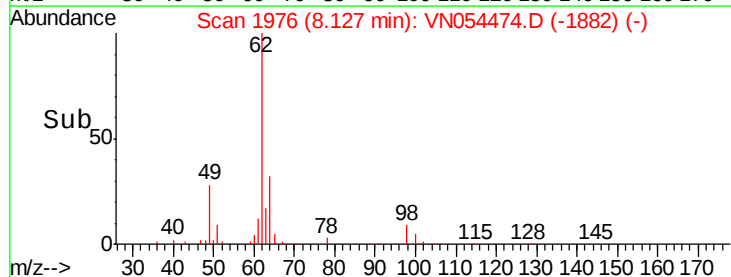
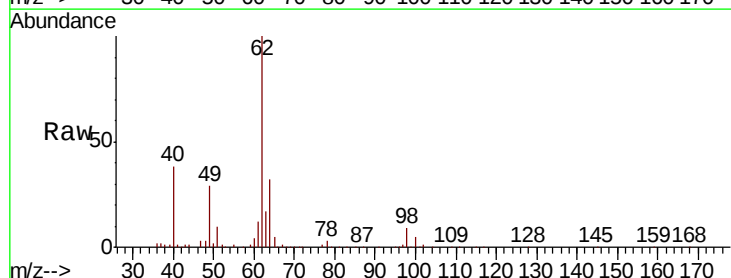
Manual Integrations
APPROVED

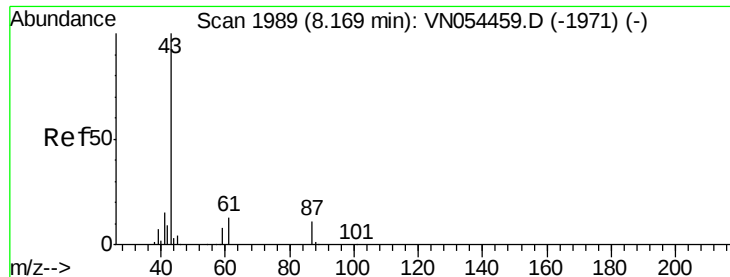
MMDadoda
3/22/2019 3:48:29 PM



#42
1,2-Dichloroethane
Concen: 20.179 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	18.4





#43

Isopropyl Acetate

Concen: 20.227 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

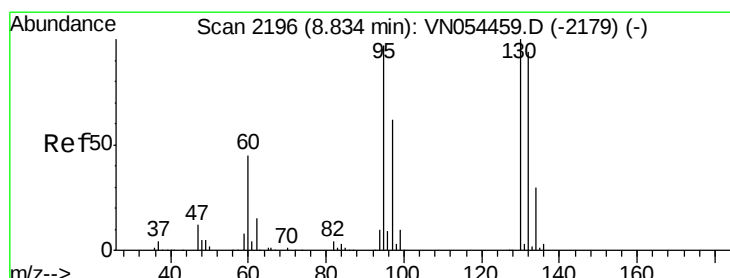
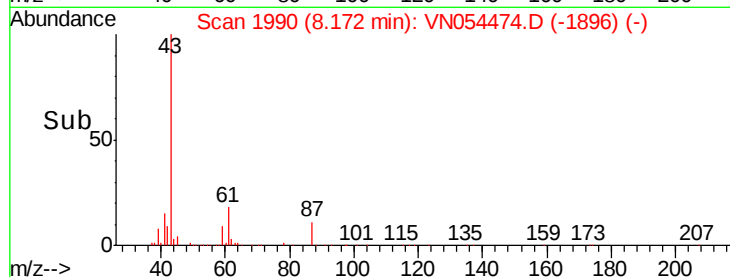
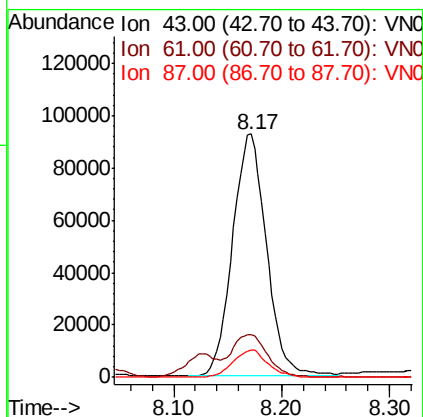
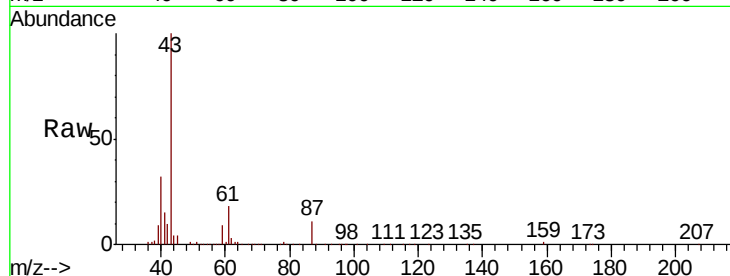
ClientSampleId :

VN0320MBSD01

Tot Ion:	43	Resp:	202286
Ion	Ratio	Lower	Upper
43	100		
61	17.7	15.8	23.8
87	11.8	12.0	18.0#

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM



#44

Trichloroethene

Concen: 20.231 ug/l

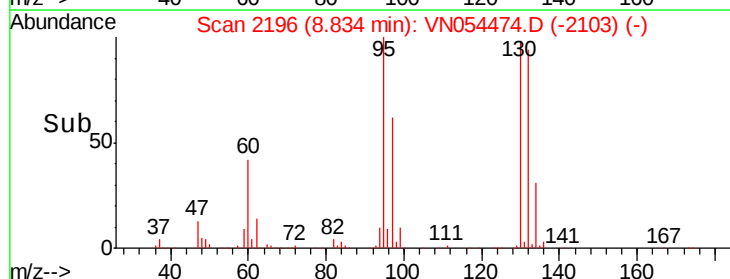
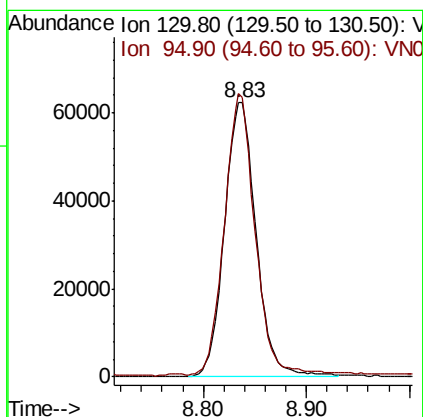
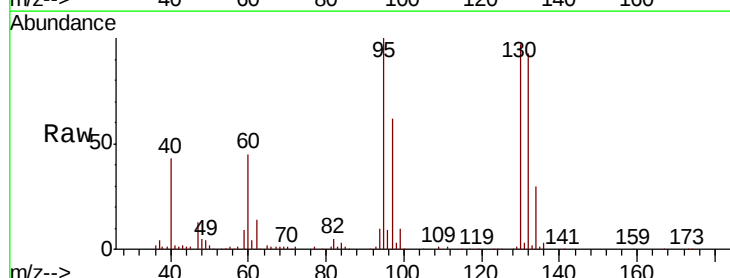
RT: 8.83 min Scan# 2196

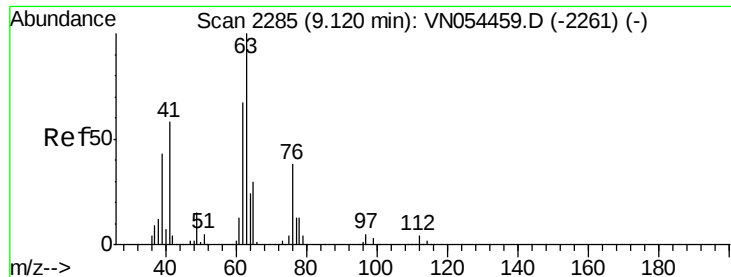
Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Tgt Ion:	130	Resp:	133913
Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	185.2





#45

1,2-Dichloropropane

Concen: 21.018 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampled :

VN0320MBSD01

Tot Ion: 63 Resp: 134369

Ion Ratio Lower Upper

63 100

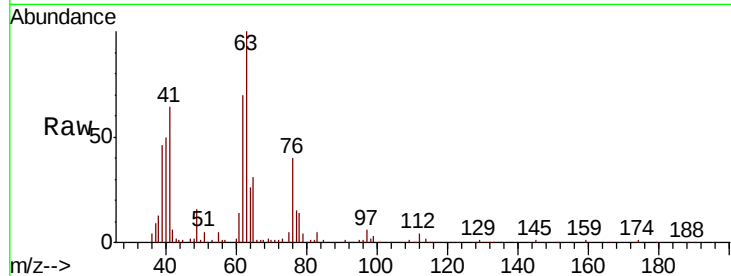
65 31.1 25.0 37.6

Manual Integrations

APPROVED

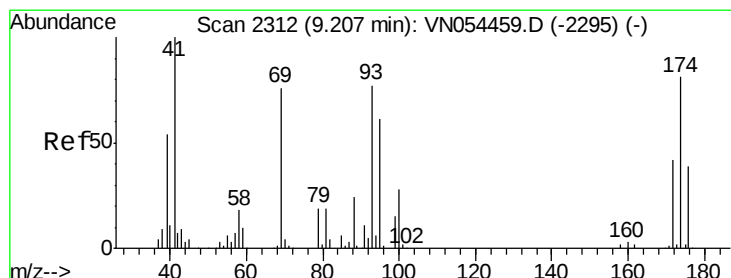
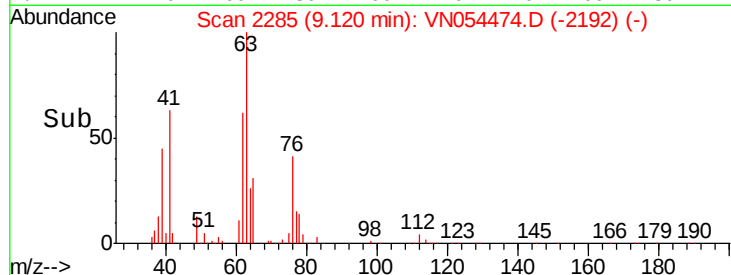
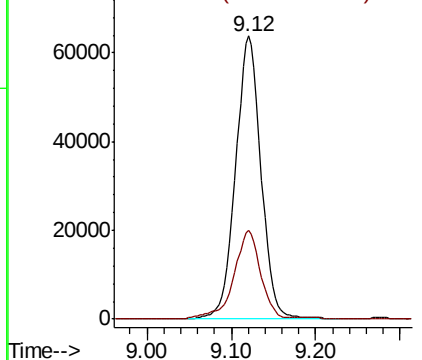
MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 20.701 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

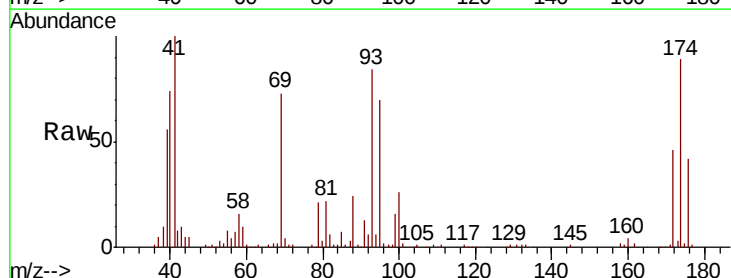
Tgt Ion: 93 Resp: 78952

Ion Ratio Lower Upper

93 100

95 80.3 66.7 100.1

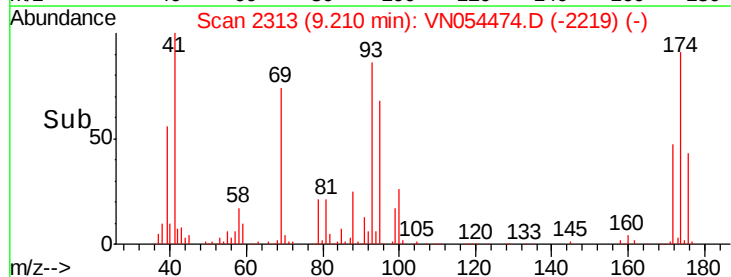
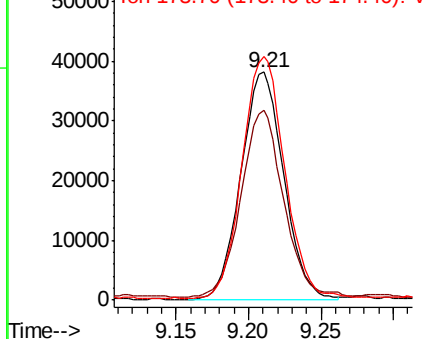
174 105.6 98.5 147.7

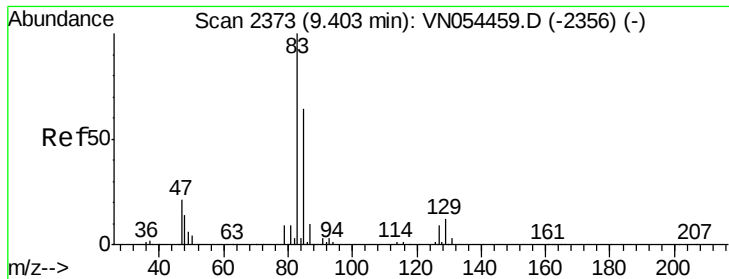


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





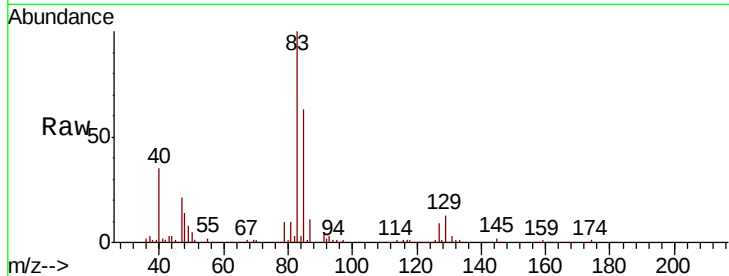
#47
Bromodichloromethane
Concen: 19.469 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	83	Resp	154104
Ion Ratio	100	Lower	Upper
83	100		
85	63.2	52.8	79.2
127	9.1	7.4	11.2

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM

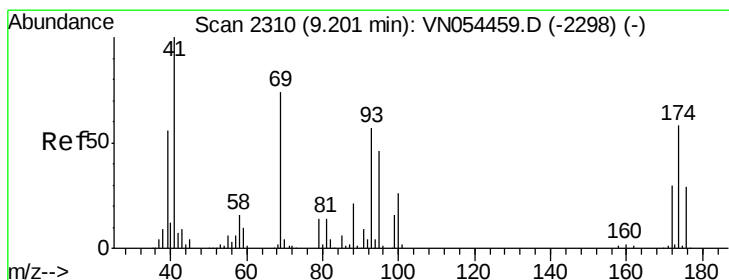
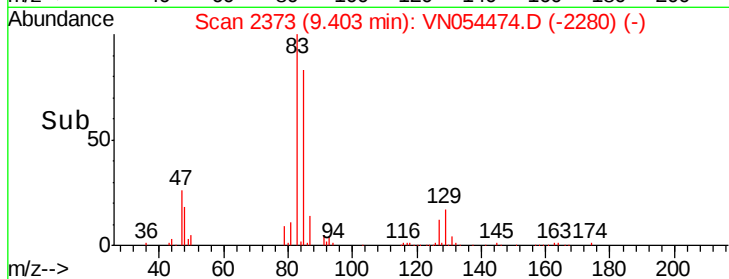
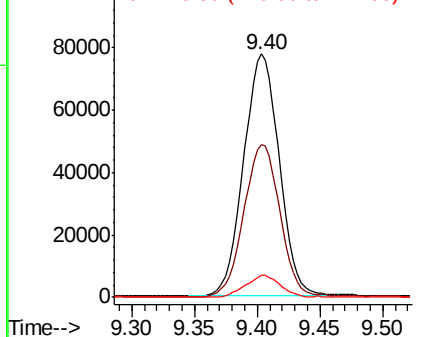


Abundance

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): VN0



#48
Methyl methacrylate
Concen: 19.951 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

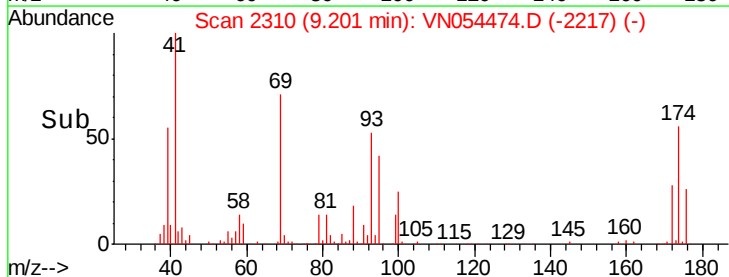
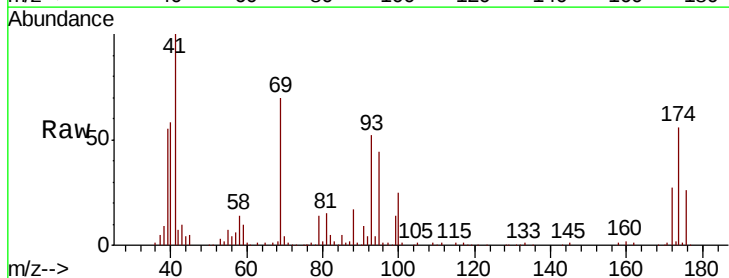
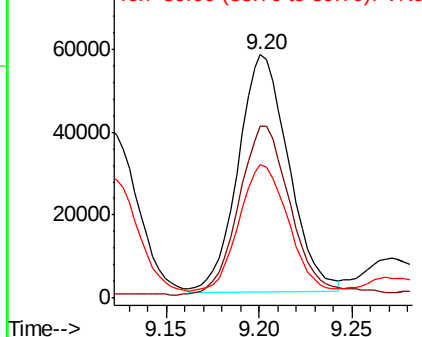
Tgt Ion	41	Resp	108296
Ion Ratio	100	Lower	Upper
41	100		
69	73.5	72.6	108.8
39	55.5	47.5	71.3

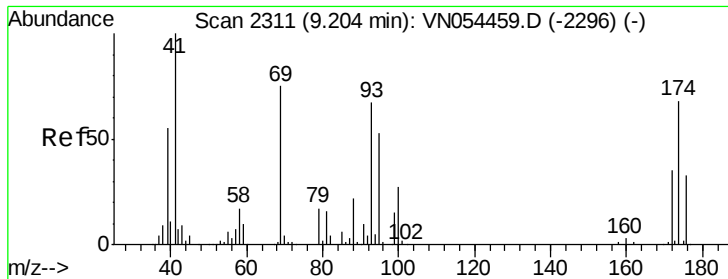
Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 380.733 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

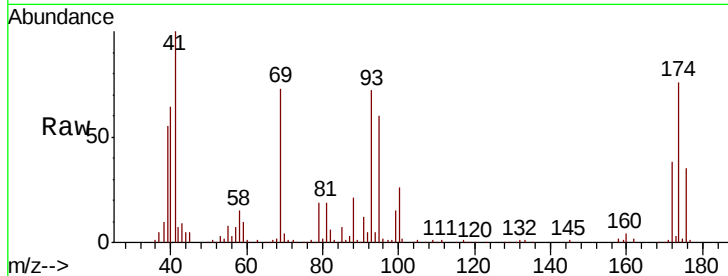
ClientSampleId :

VN0320MBSD01

Tot Ion:	88	Resp:	23104
Ion	Ratio	Lower	Upper
88	100		
43	39.0	24.1	36.1#
58	76.3	50.8	76.2#

Manual Integrations
APPROVED

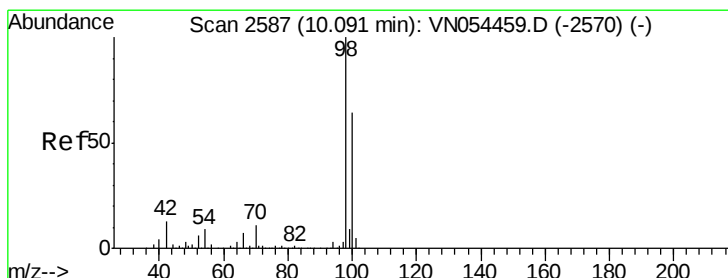
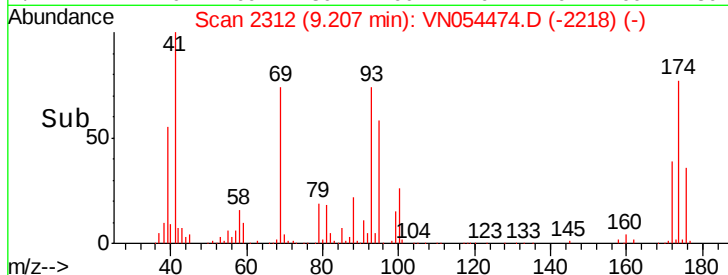
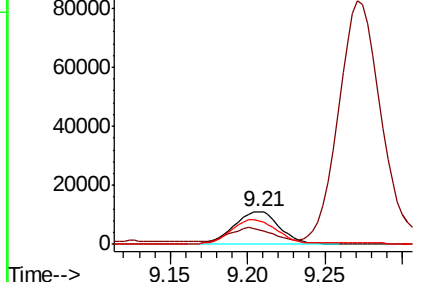
MMDadoda
3/22/2019 3:48:29 PM



Abundance Ion 88.00 (87.70 to 88.70): VN054459.D (-2296) (-)

Ion 43.00 (42.70 to 43.70): VN054459.D (-2296) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2296) (-)



#50

Toluene-d8

Concen: 49.704 ug/l

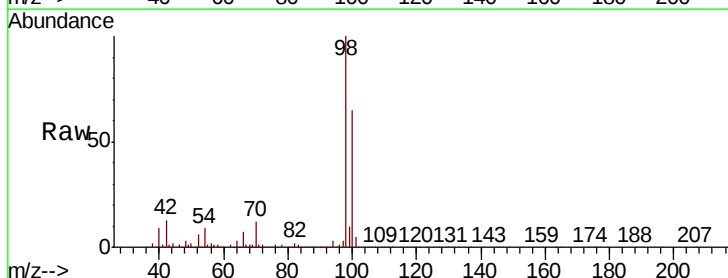
RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054474.D

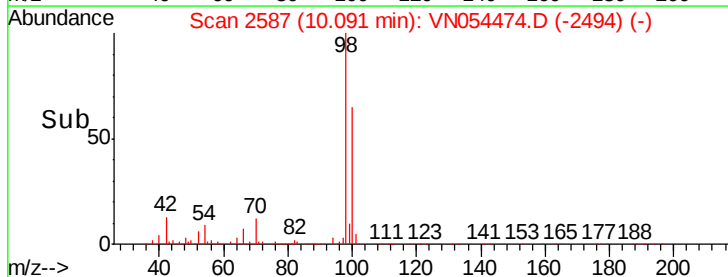
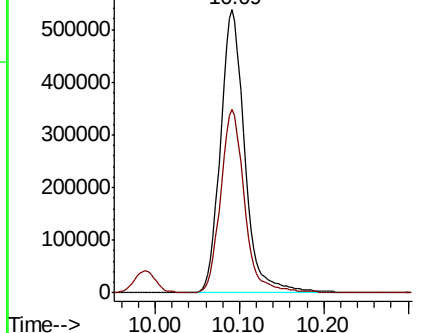
Acq: 20 Mar 2019 20:07

Tgt Ion:	98	Resp:	1071960
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.2	76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN054459.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 105.448 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 43 Resp: 584450

Ion Ratio Lower Upper

43 100

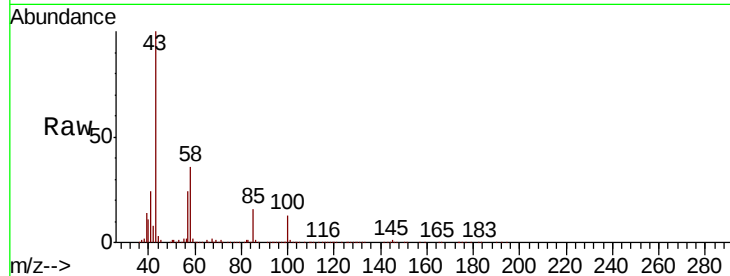
58 35.7 31.8 47.6

Manual Integrations

APPROVED

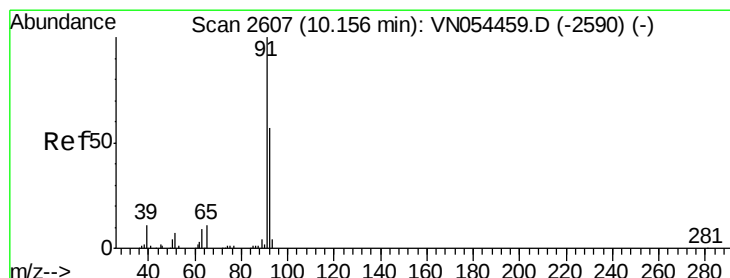
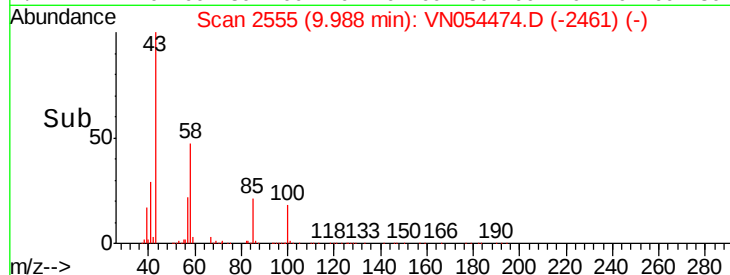
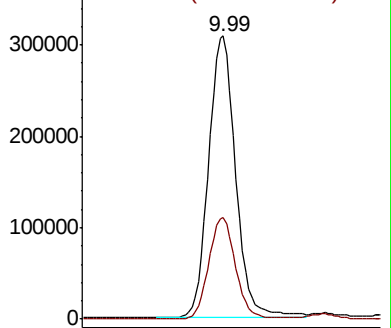
MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.121 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054474.D

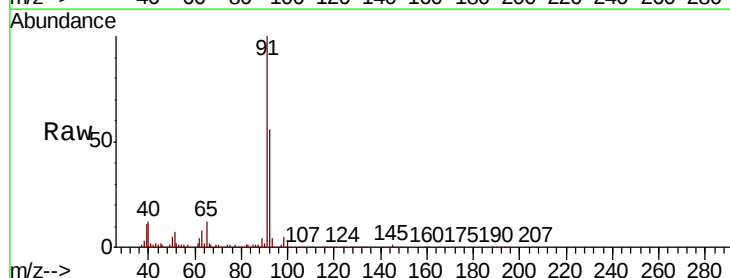
Acq: 20 Mar 2019 20:07

Tgt Ion: 92 Resp: 294631

Ion Ratio Lower Upper

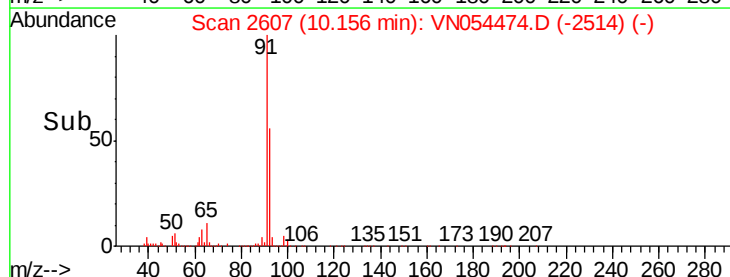
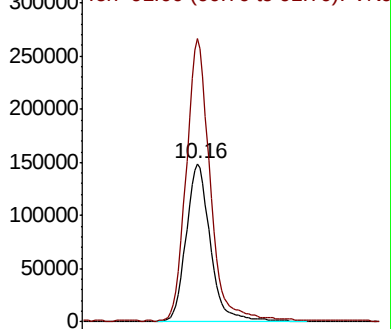
92 100

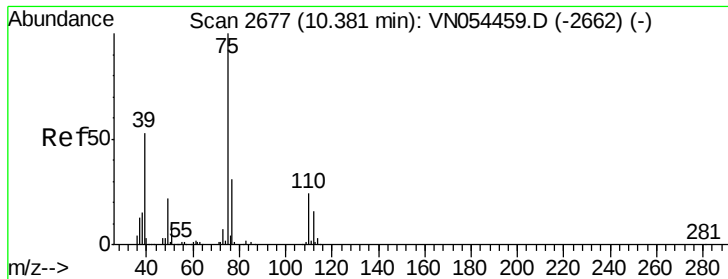
91 176.6 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 17.844 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 75 Resp: 136450

Ion Ratio Lower Upper

75 100

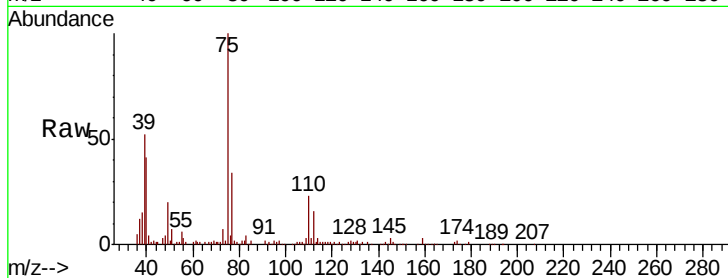
77 32.4 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

80000

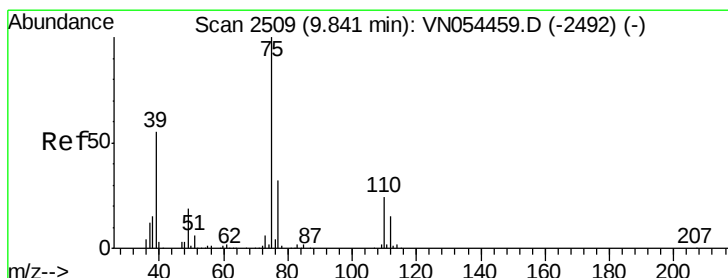
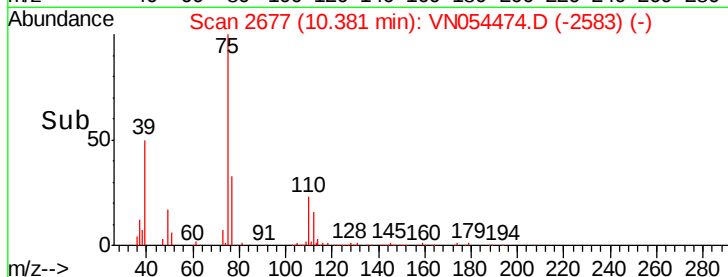
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.342 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

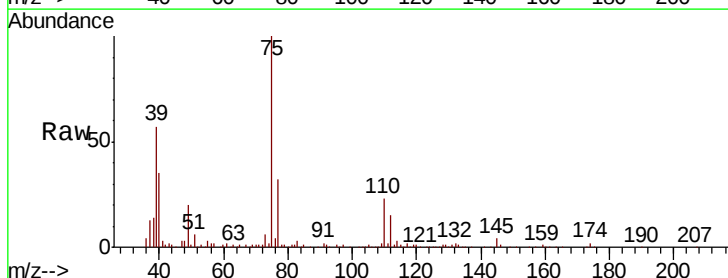
Tgt Ion: 75 Resp: 175542

Ion Ratio Lower Upper

75 100

77 31.3 25.4 38.0

39 56.1 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.84

120000

100000

80000

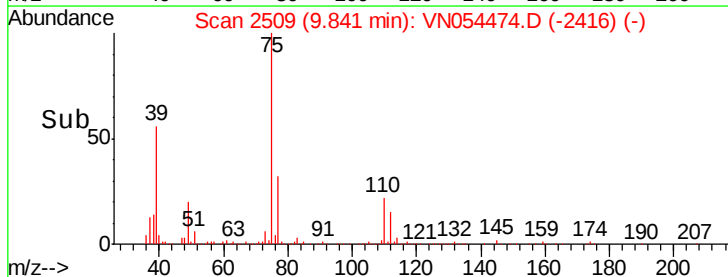
60000

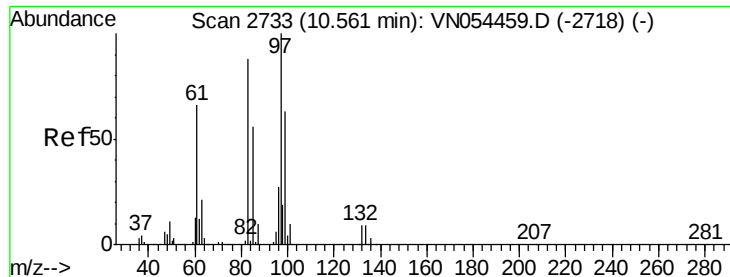
40000

20000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 20.815 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

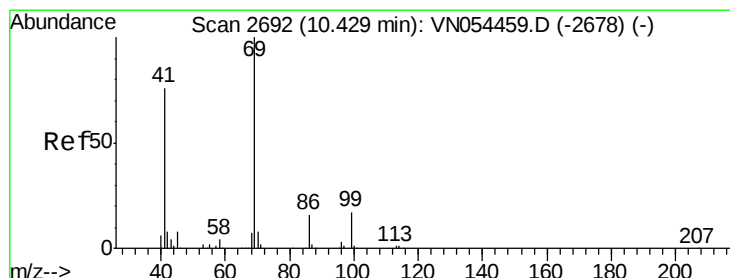
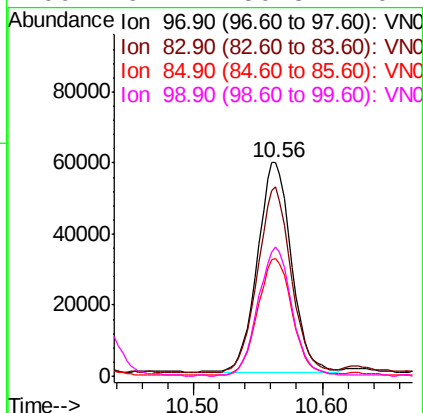
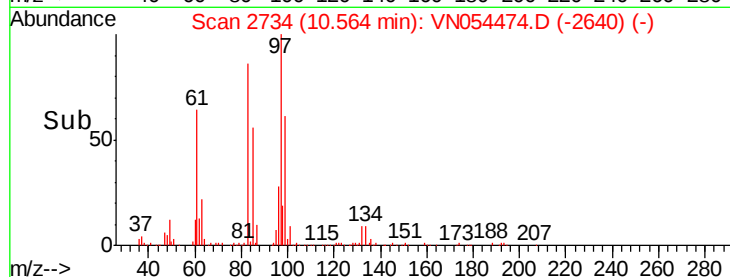
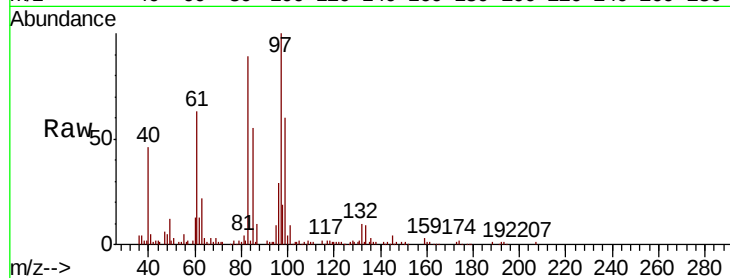
ClientSampleId :

VN0320MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		109565		
83	87.9	66.6	100.0		
85	55.7	44.4	66.6		
99	61.2	50.8	76.2		

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM



#56

Ethyl methacrylate

Concen: 20.217 ug/l

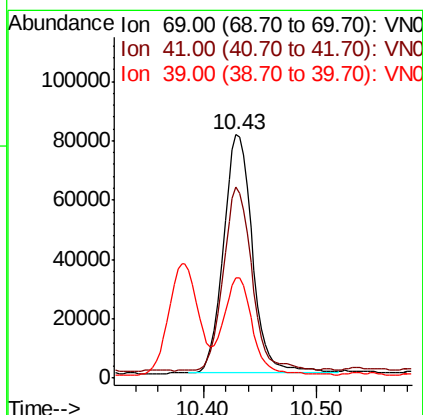
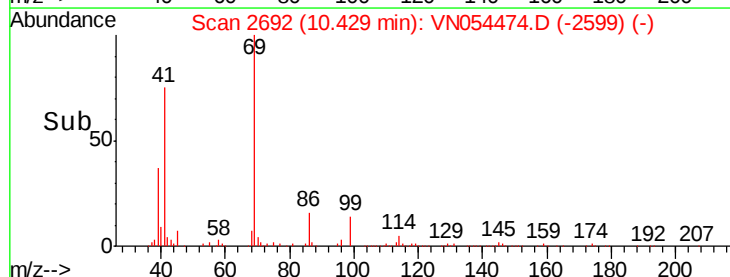
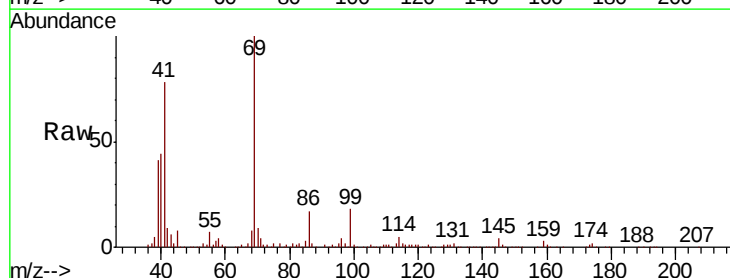
RT: 10.43 min Scan# 2692

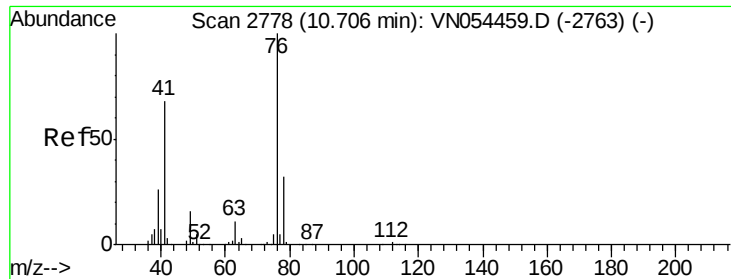
Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		142833		
41	75.6	49.4	74.2#		
39	40.1	28.3	42.5		





#57

1,3-Dichloropropane

Concen: 21.148 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 76 Resp: 193507

Ion Ratio Lower Upper

76 100

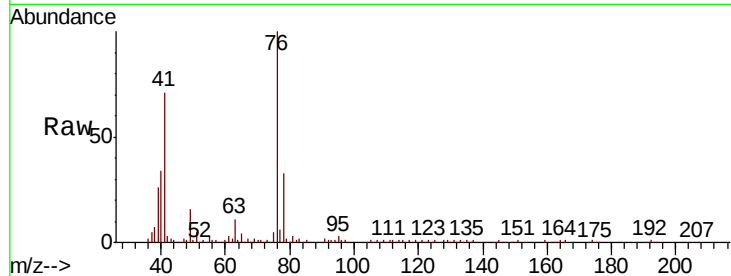
78 32.1 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

120000

100000

80000

60000

40000

20000

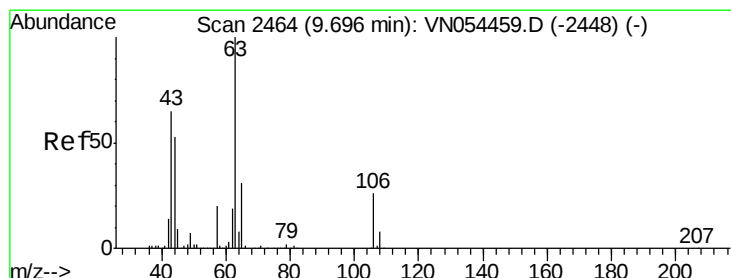
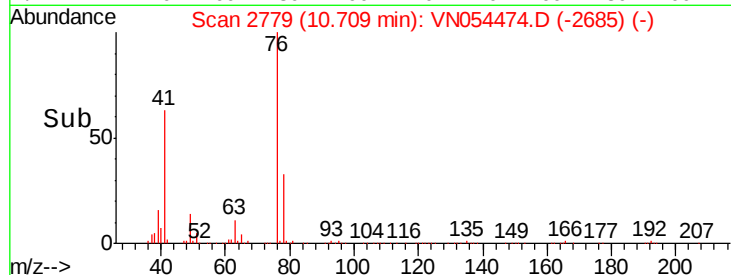
0

10.60

10.70

10.80

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 95.447 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054474.D

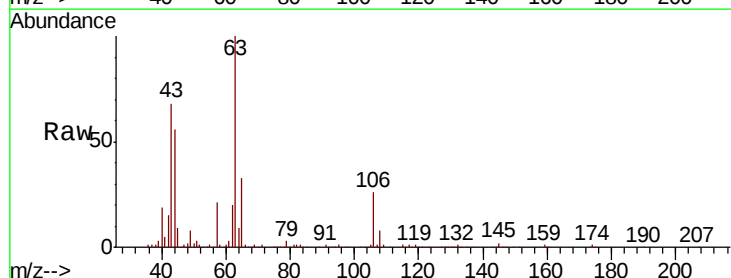
Acq: 20 Mar 2019 20:07

Tgt Ion: 63 Resp: 277675

Ion Ratio Lower Upper

63 100

106 25.9 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

150000

100000

50000

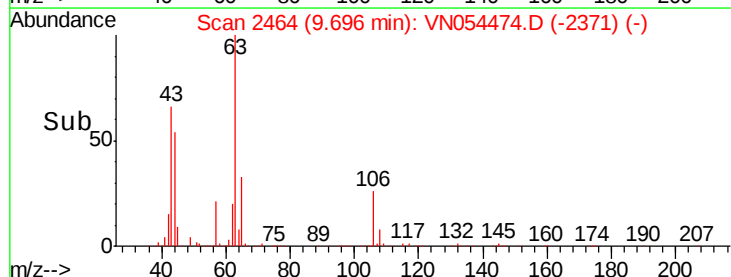
0

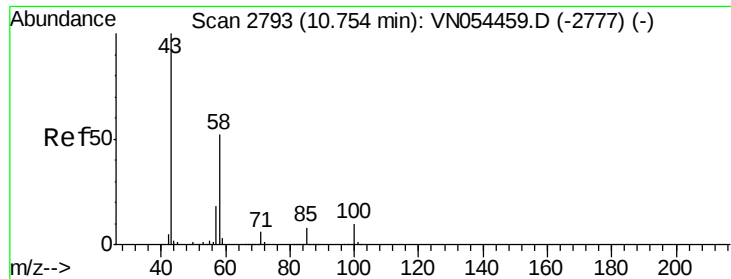
9.60

9.70

9.80

Time-->





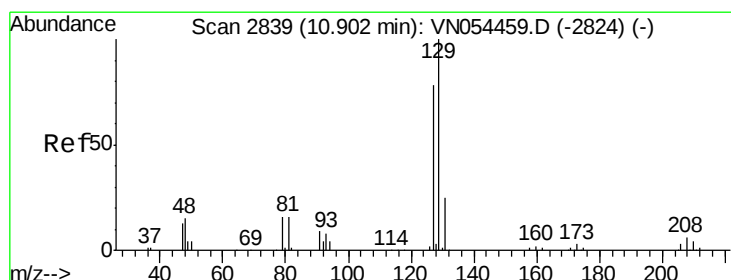
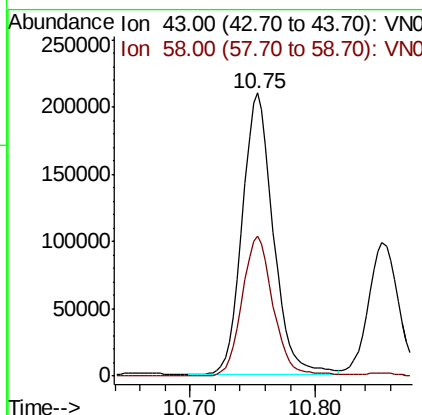
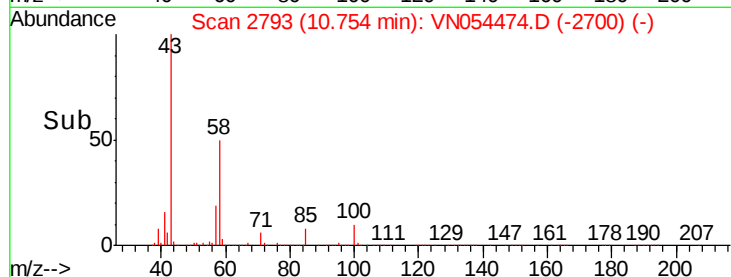
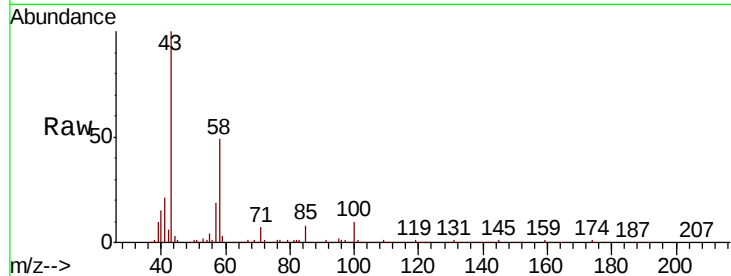
#59
2-Hexanone
Concen: 99.562 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion: 43 Resp: 360446
Ion Ratio Lower Upper
43 100
58 50.3 28.0 83.9

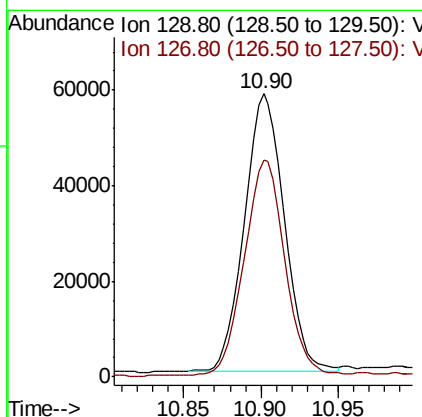
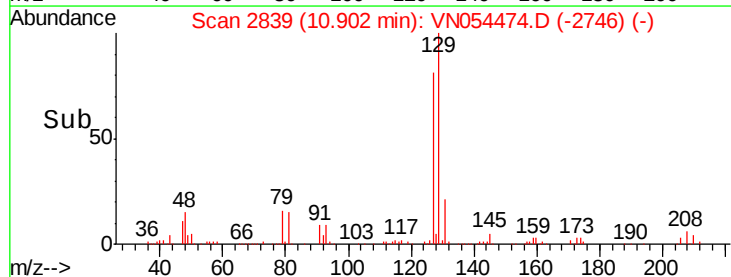
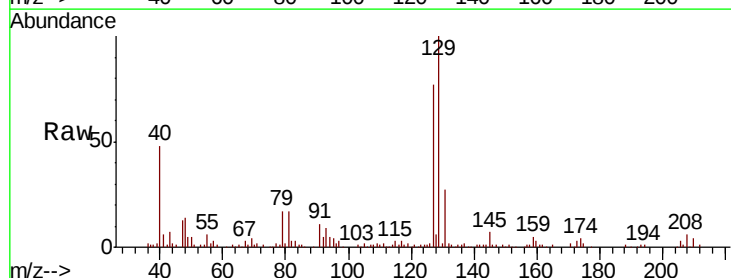
Manual Integrations
APPROVED

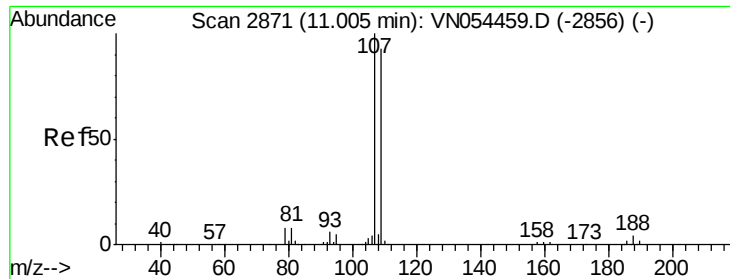
MMDadoda
3/22/2019 3:48:29 PM



#60
Dibromochloromethane
Concen: 18.627 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion: 129 Resp: 104332
Ion Ratio Lower Upper
129 100
127 80.3 38.6 115.8





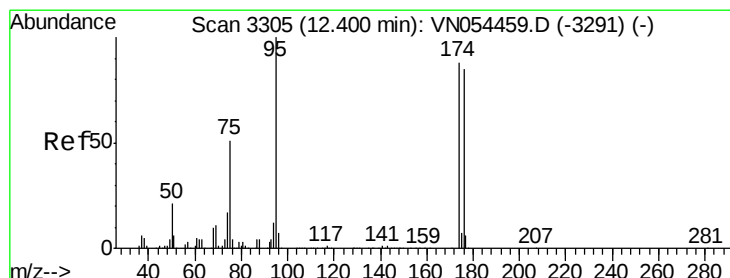
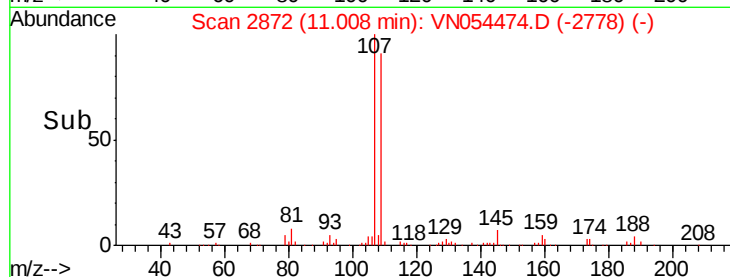
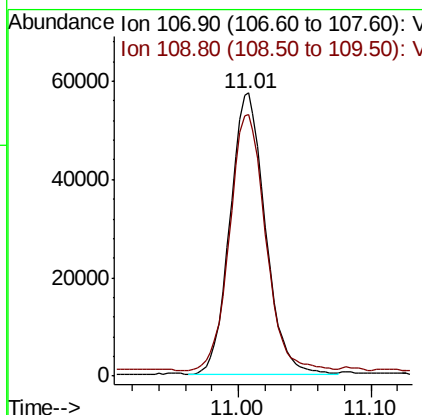
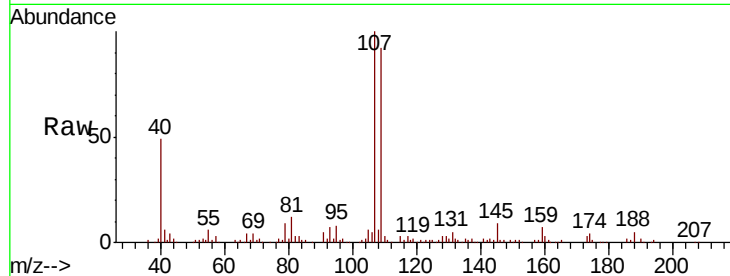
#61
 1,2-Dibromoethane
 Concen: 20.330 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.9	113.9

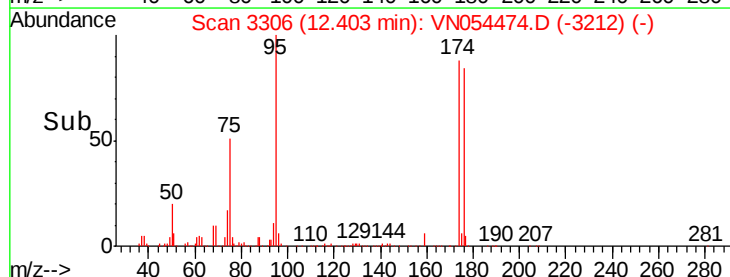
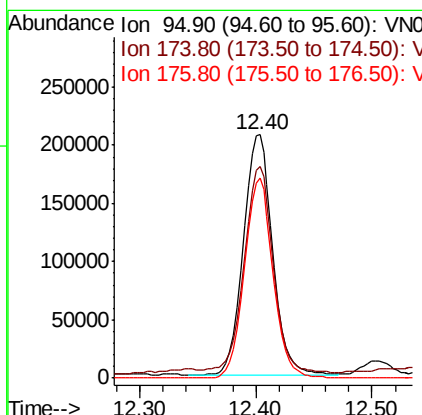
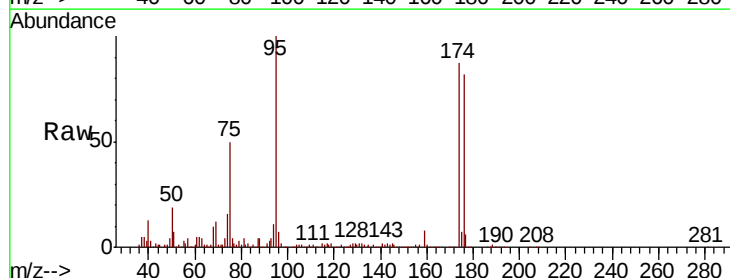
Manual Integrations
 APPROVED

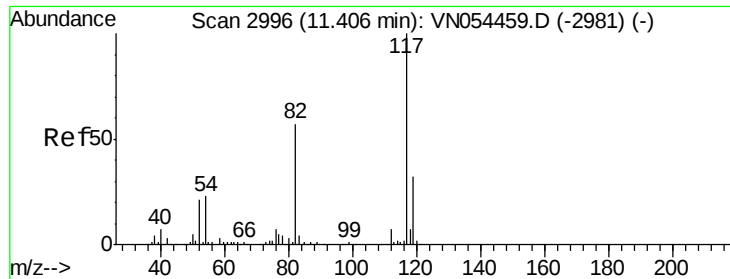
MMDadoda
 3/22/2019 3:48:29 PM



#62
 4-Bromofluorobenzene
 Concen: 49.087 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
95	100		
174	85.0	0.0	191.0
176	82.1	0.0	187.4





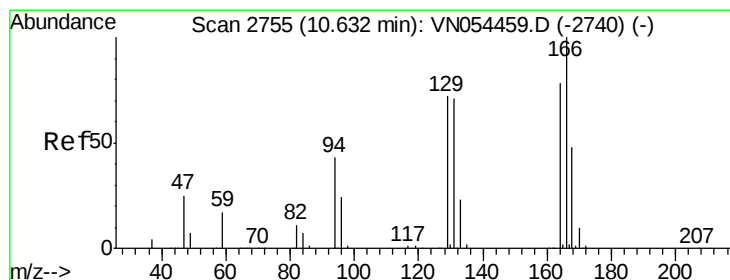
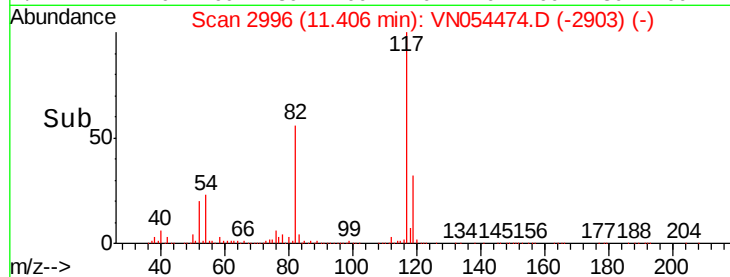
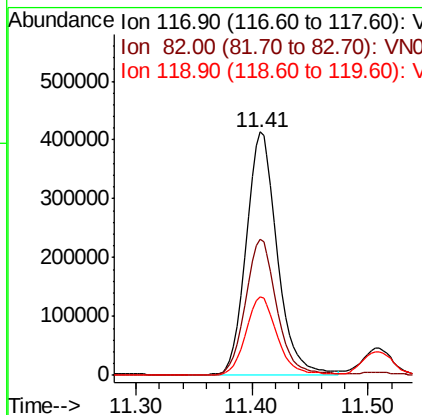
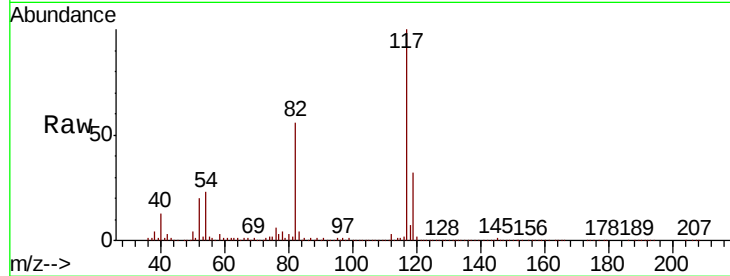
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampled :
VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.7	40.0	60.0
119	32.3	25.8	38.6

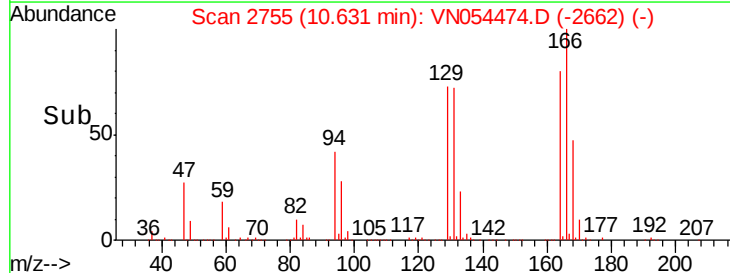
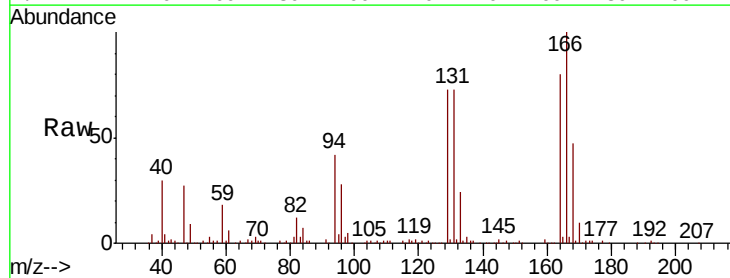
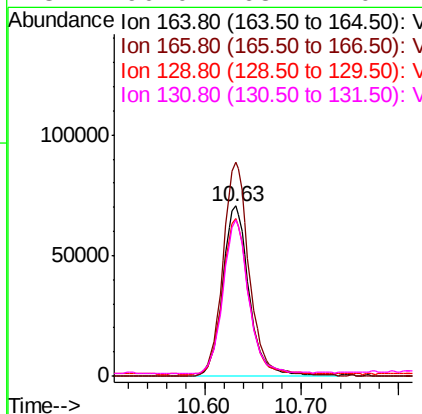
Manual Integrations
APPROVED

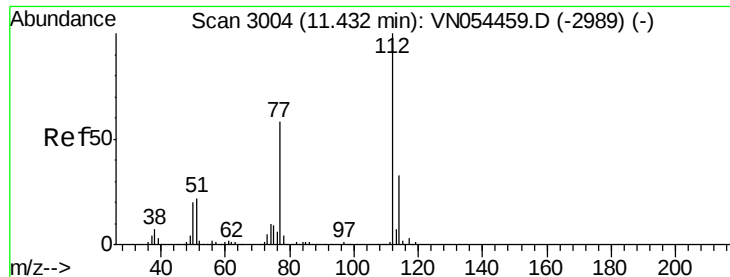
MMDadoda
3/22/2019 3:48:29 PM



#64
Tetrachloroethene
Concen: 21.082 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.5	103.9	155.9
129	91.2	71.1	106.7
131	90.0	68.2	102.4





#65

Chlorobenzene

Concen: 20.437 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion:112 Resp: 317597

Ion Ratio Lower Upper

112 100

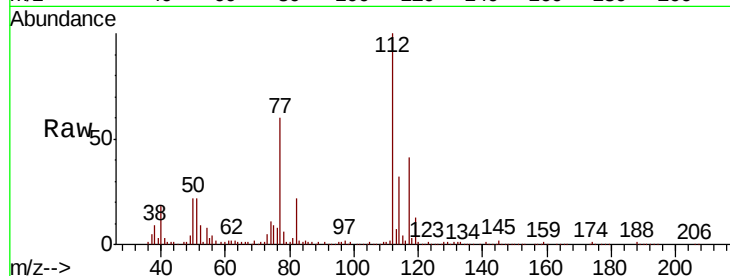
114 32.5 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

200000

150000

100000

50000

0

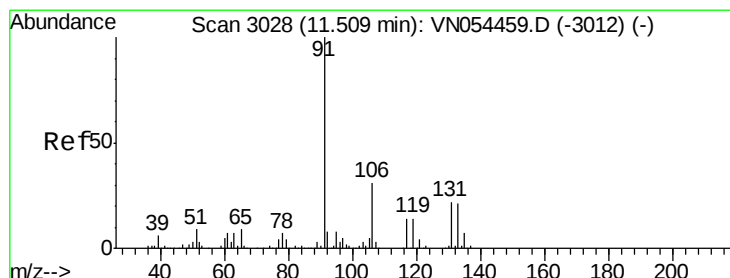
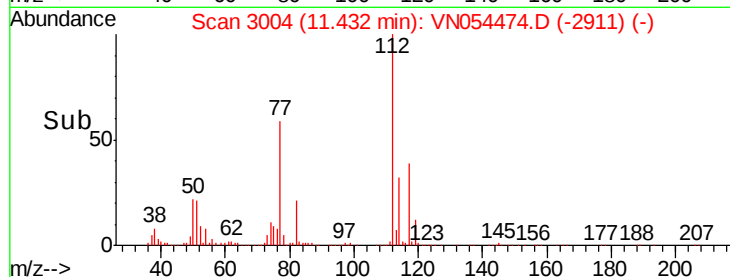
11.43

11.40

11.50

11.60

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 20.160 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

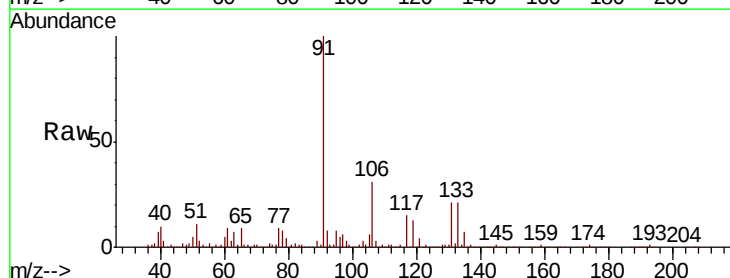
Tgt Ion:131 Resp: 112451

Ion Ratio Lower Upper

131 100

133 94.8 47.6 142.9

119 62.7 32.4 97.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

100000

50000

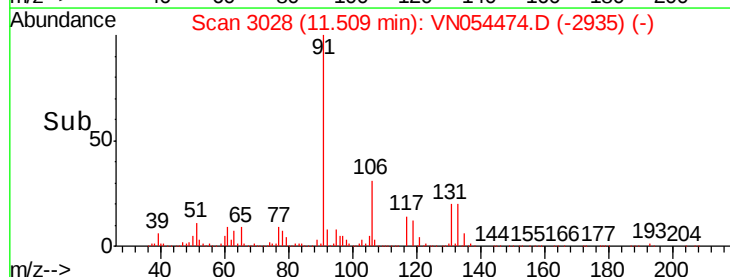
0

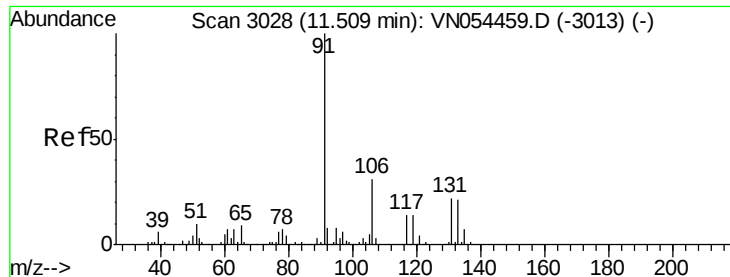
11.51

11.45

11.55

Time-->





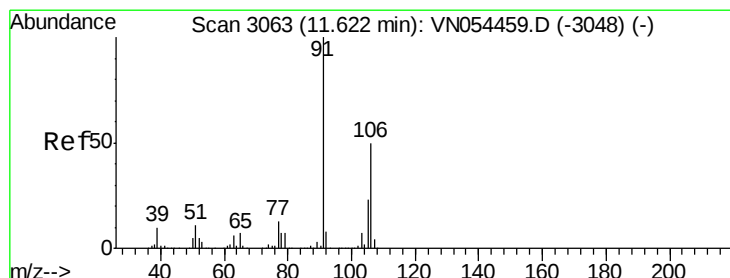
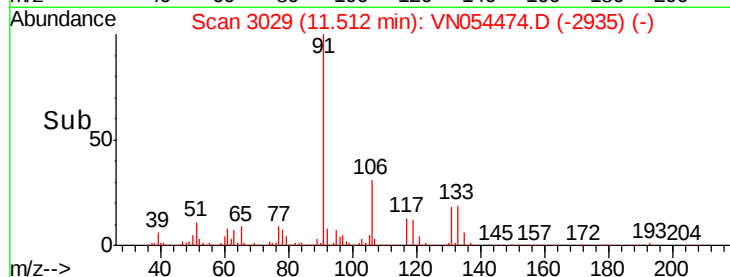
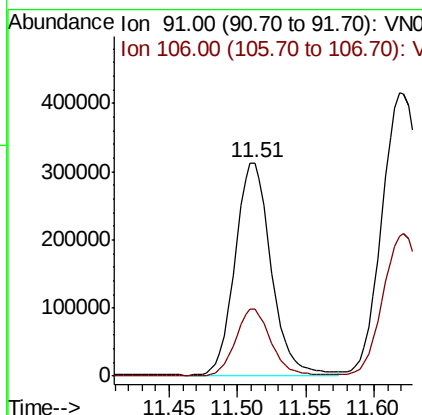
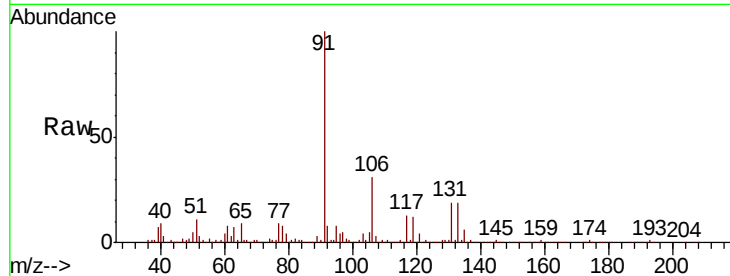
#67
Ethyl Benzene
Concen: 20.808 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion: 91 Resp: 571196
Ion Ratio Lower Upper
91 100
106 31.1 25.5 38.3

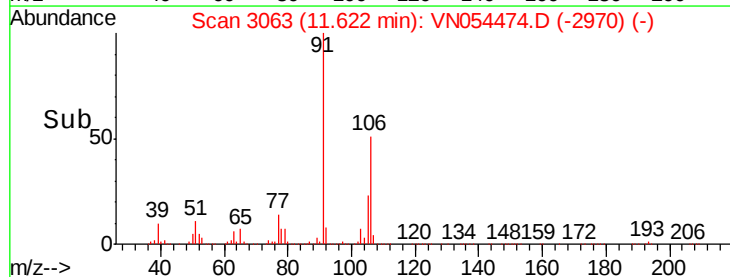
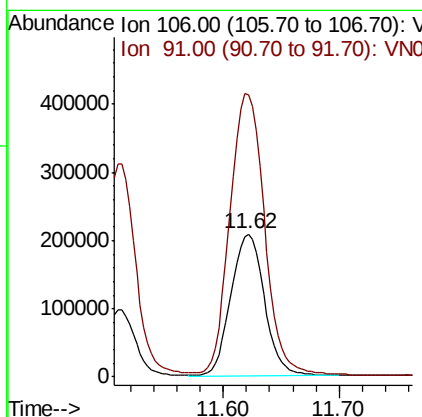
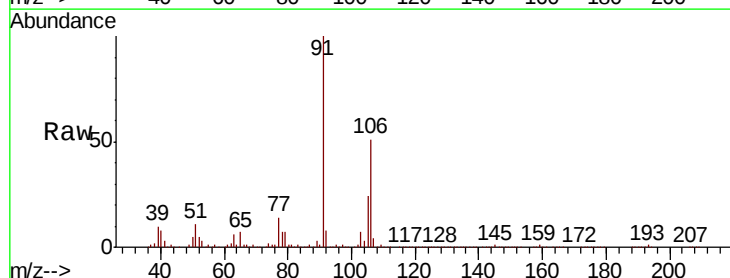
Manual Integrations
APPROVED

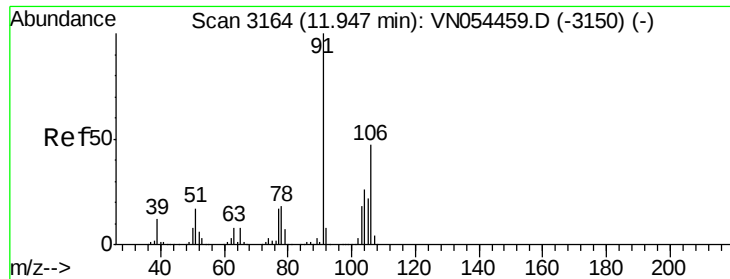
MMDadoda
3/22/2019 3:48:29 PM



#68
m/p-Xylenes
Concen: 40.109 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion: 106 Resp: 417032
Ion Ratio Lower Upper
106 100
91 205.4 159.4 239.2





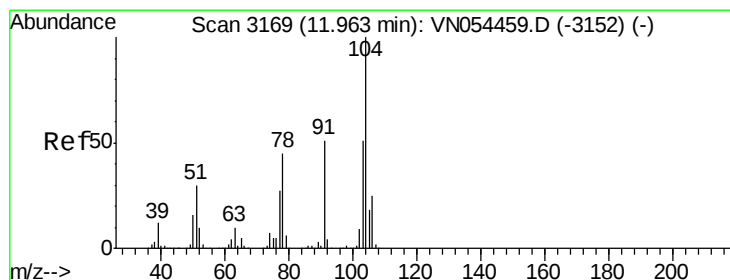
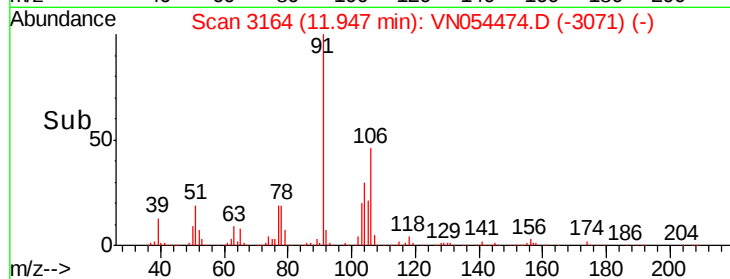
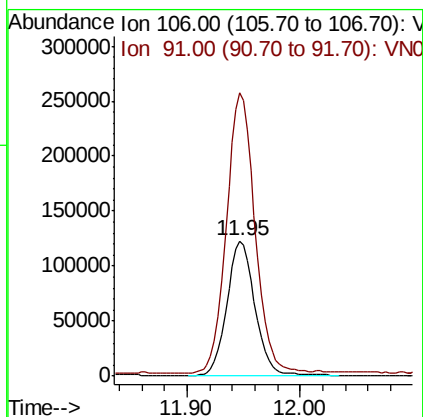
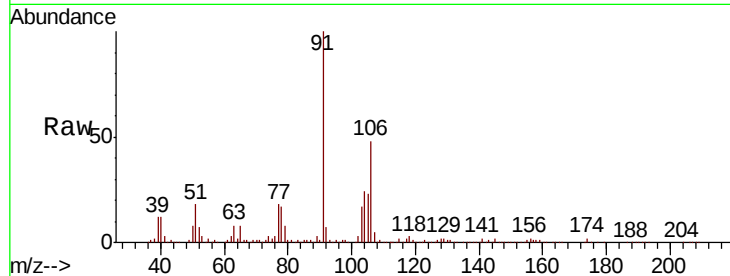
#69
o-Xylene
Concen: 20.663 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	211.5	105.7	317.1

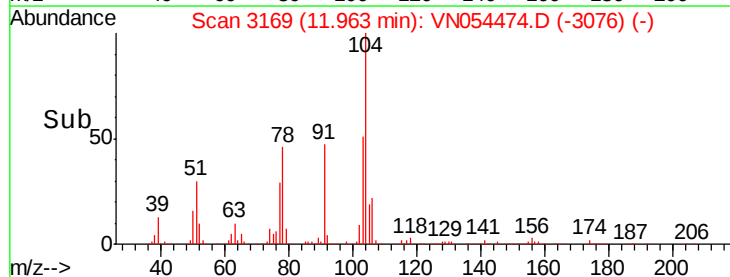
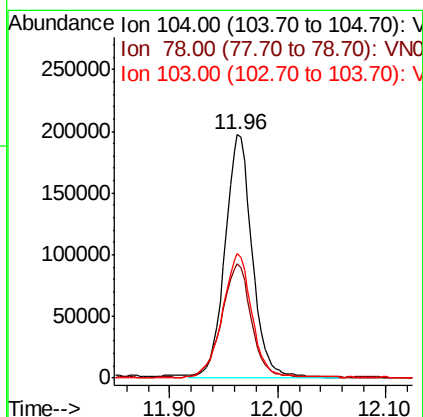
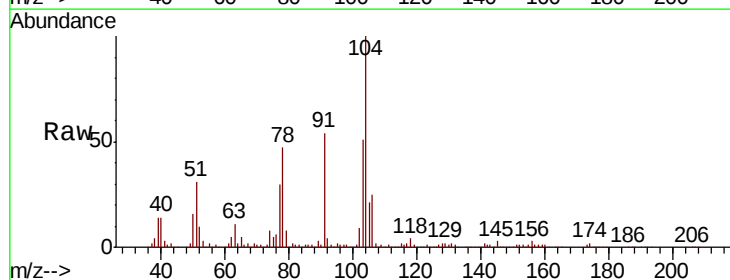
Manual Integrations
APPROVED

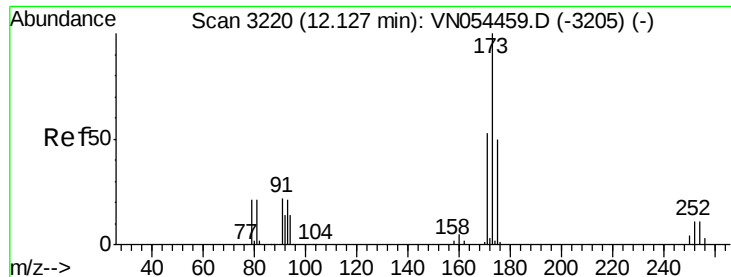
MMDadoda
3/22/2019 3:48:29 PM



#70
Styrene
Concen: 20.853 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.7	38.2	57.2
103	55.1	44.4	66.6





#71

Bromoform

Concen: 16.743 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

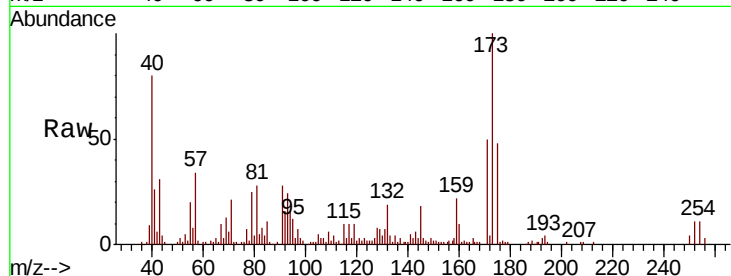
ClientSampleId :

VN0320MBSD01

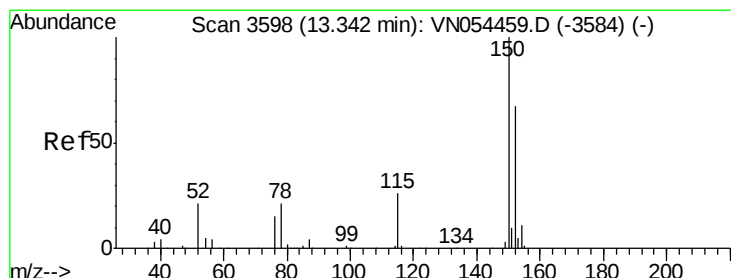
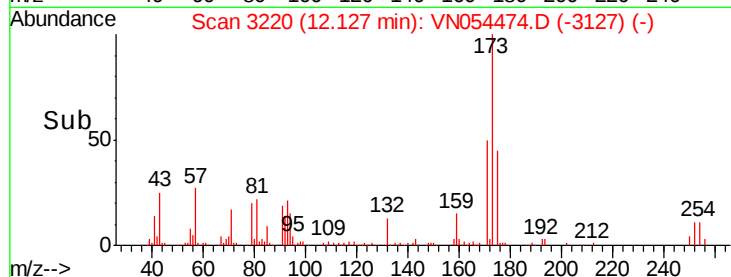
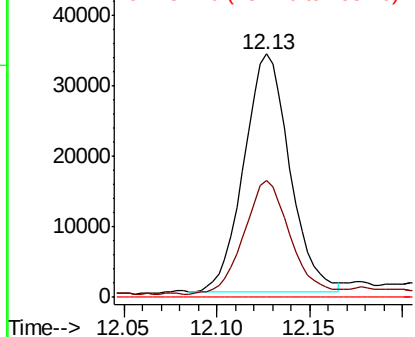
Tot Ion	Ion	Ratio	Lower	Upper
173	100			
175	47.2	24.4	73.2	
254	0.0	0.1	0.1	

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 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

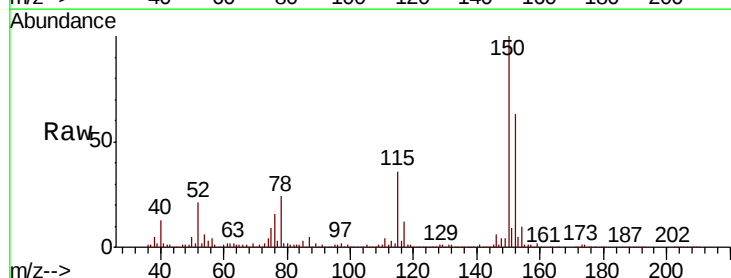
RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

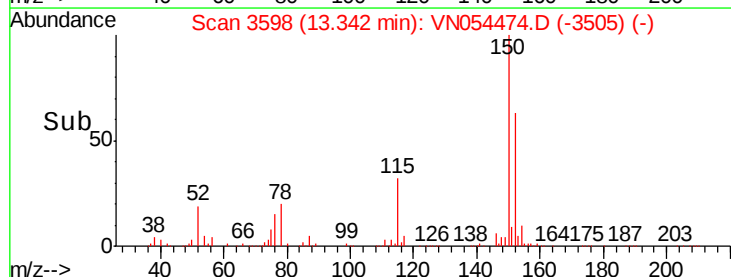
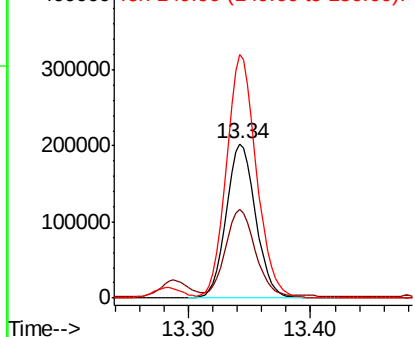
Lab File: VN054474.D

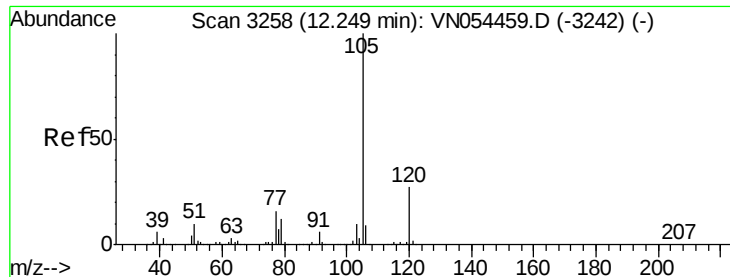
Acq: 20 Mar 2019 20:07

Tgt Ion	Ion	Ratio	Lower	Upper
152	100			
115	58.2	27.2	81.6	
150	161.4	0.0	349.2	



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





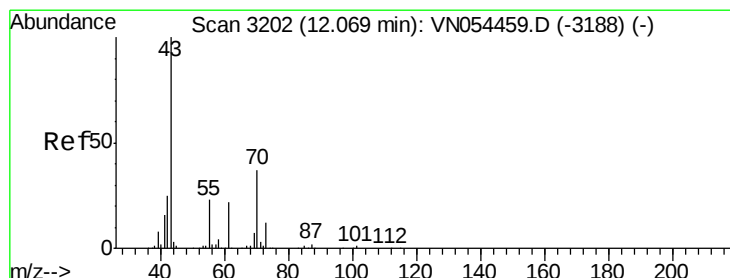
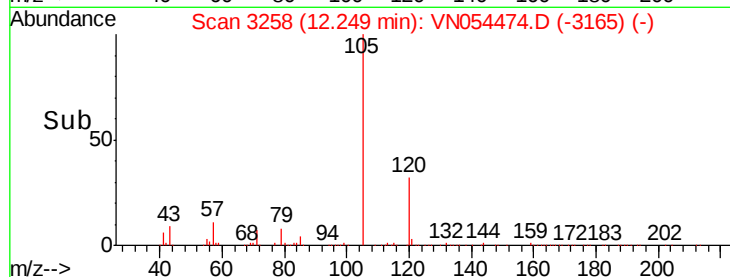
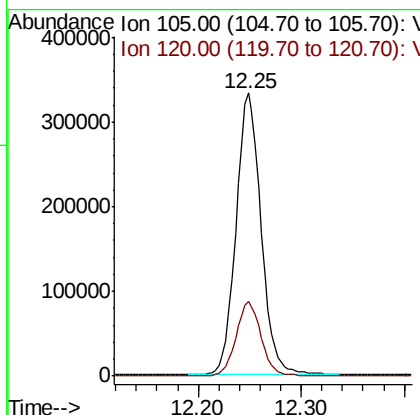
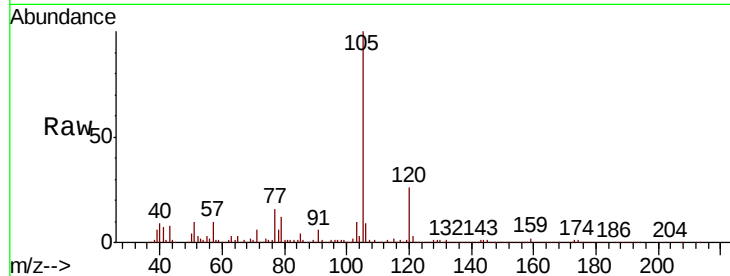
#73
Isopropylbenzene
Concen: 20.497 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.8	41.3

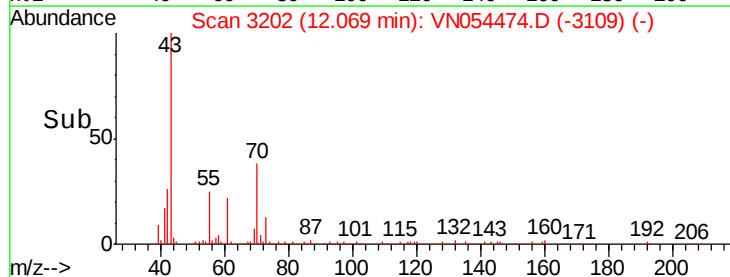
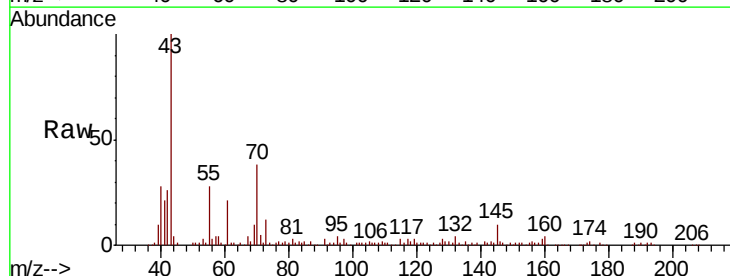
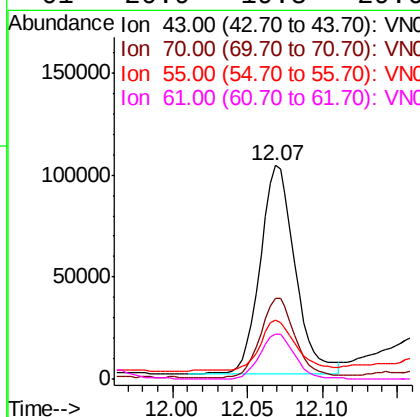
Manual Integrations
APPROVED

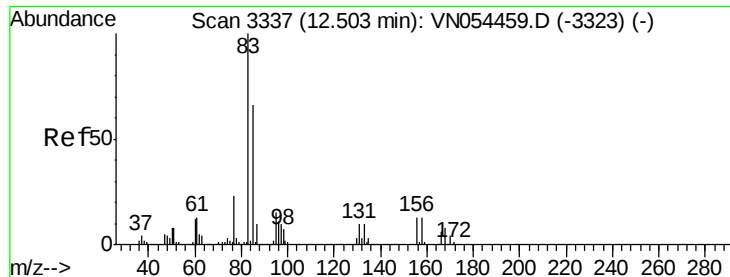
MMDadoda
3/22/2019 3:48:29 PM



#74
N-ethyl acetate
Concen: 21.237 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
43	100		
70	37.8	35.4	53.0
55	24.5	19.8	29.6
61	20.9	19.8	29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 19.933 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

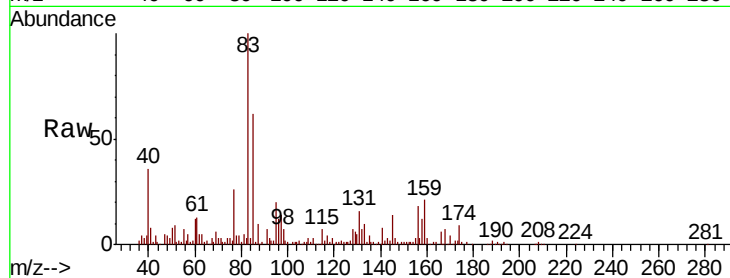
ClientSampleId :

VN0320MBSD01

Tot Ion:	83	Resp:	124213
Ion Ratio	Lower	Upper	
83	100		
131	14.6	5.8	17.4
85	66.2	32.2	96.6

Manual Integrations
APPROVED

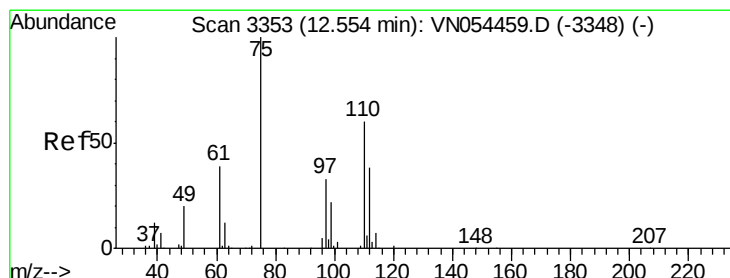
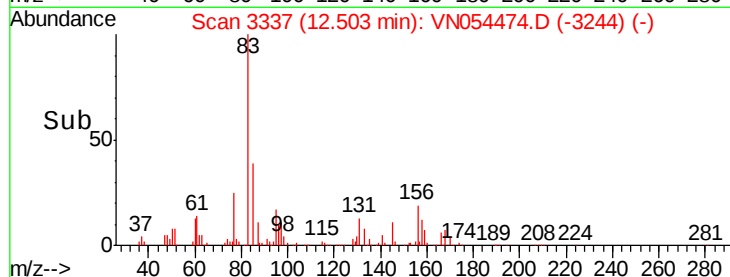
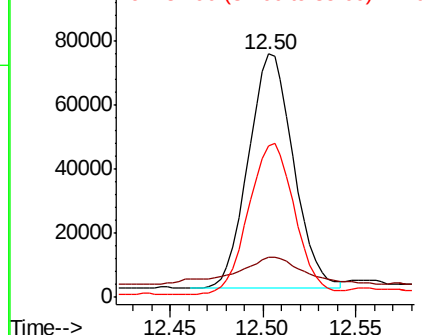
MMDadoda
3/22/2019 3:48:29 PM



Abundance Ion 82.90 (82.60 to 83.60): VN054474.D (-3244) (-)

Ion 130.80 (130.50 to 131.50): VN054474.D (-3244) (-)

Ion 84.90 (84.60 to 85.60): VN054474.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 21.526 ug/l m

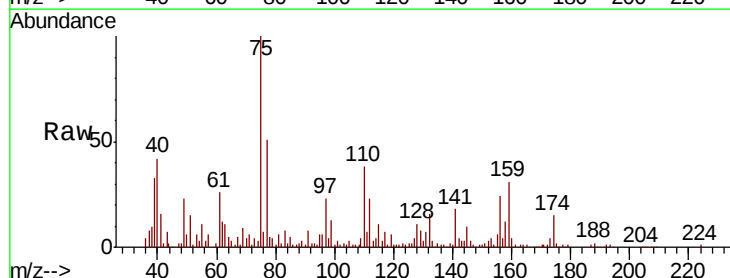
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054474.D

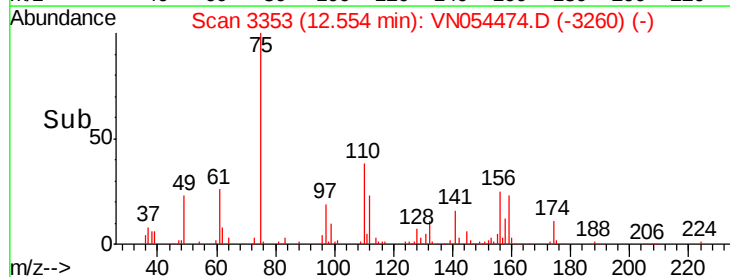
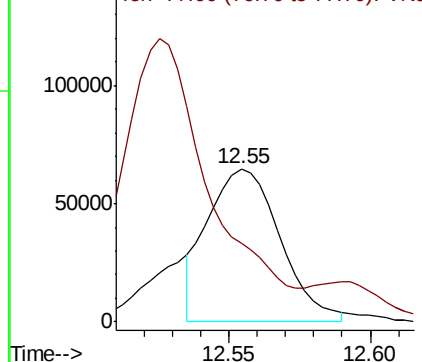
Acq: 20 Mar 2019 20:07

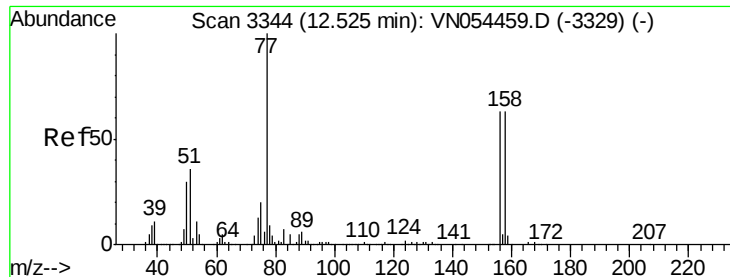
Tgt Ion:	75	Resp:	115715
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054474.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN054474.D (-3260) (-)





#77

Bromobenzene

Concen: 28.695 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

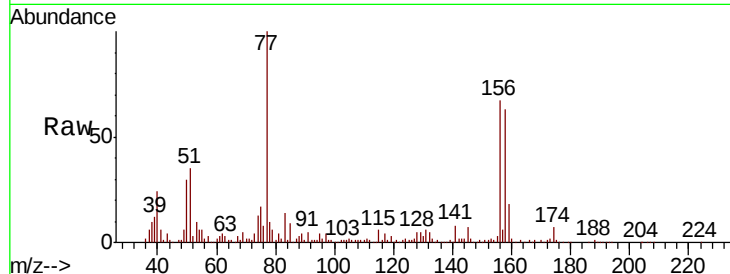
ClientSampleId :

VN0320MBSD01

Tot Ion:	156	Resp:	194274
Ion Ratio	Lower	Upper	
156	100		
77	130.4	81.5	244.4
158	69.2	49.0	147.2

Manual Integrations
APPROVED

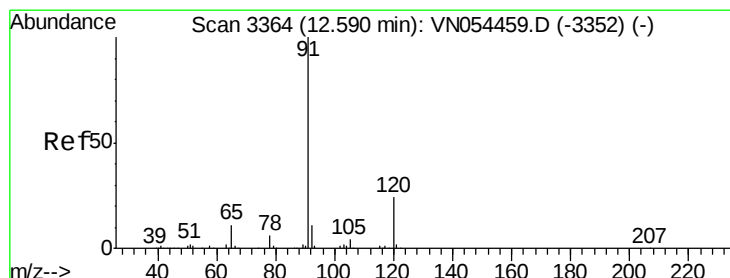
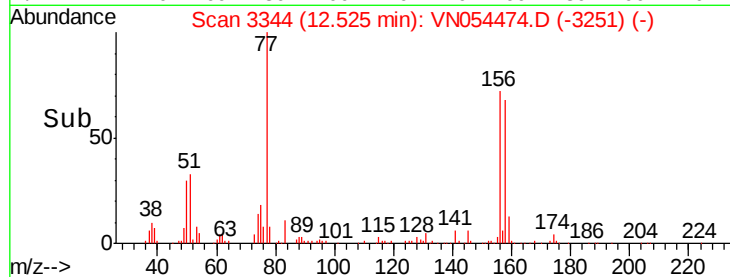
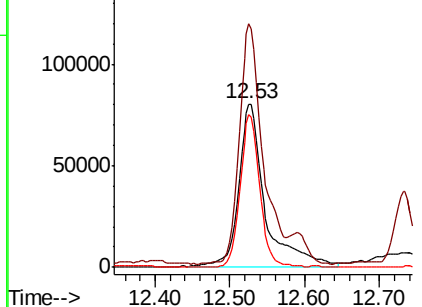
MMDadoda
3/22/2019 3:48:29 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.989 ug/l

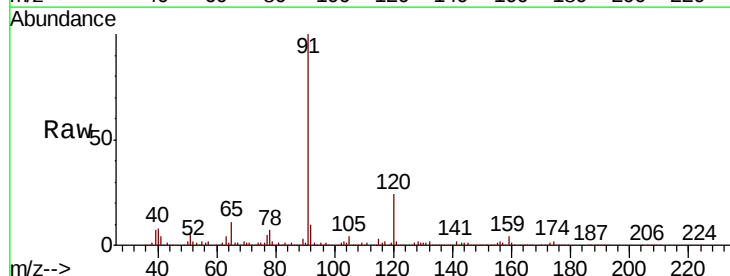
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054474.D

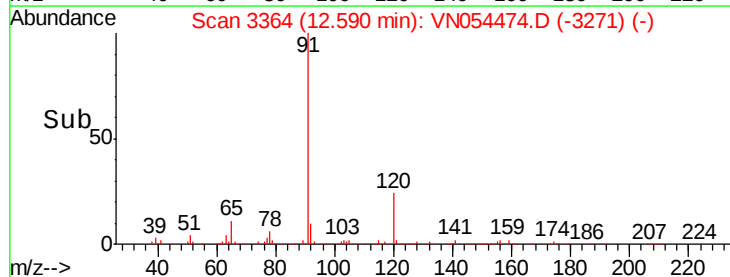
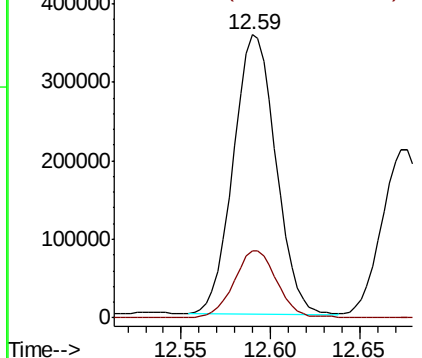
Acq: 20 Mar 2019 20:07

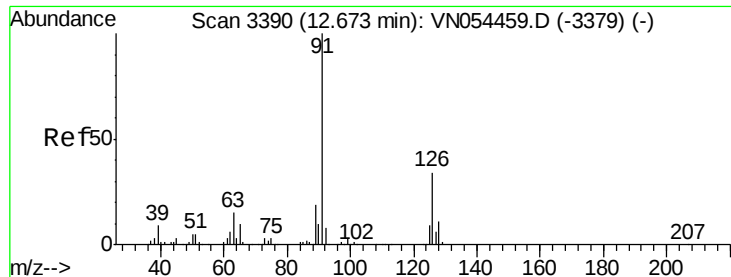
Tgt Ion:	91	Resp:	591695
Ion Ratio	Lower	Upper	
91	100		
120	24.1	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.411 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

VN0320MBSD01

Tot Ion: 91 Resp: 358302

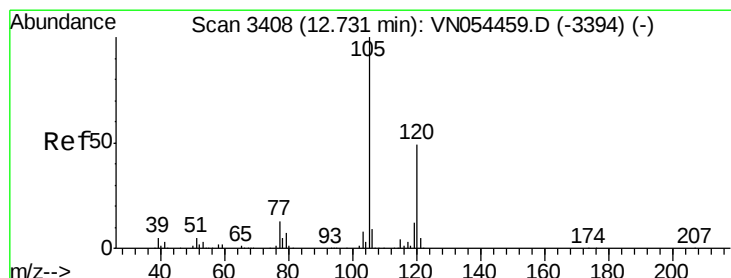
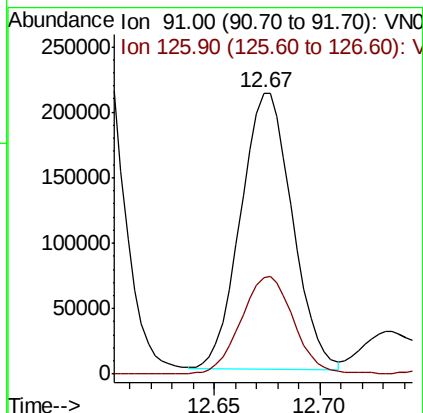
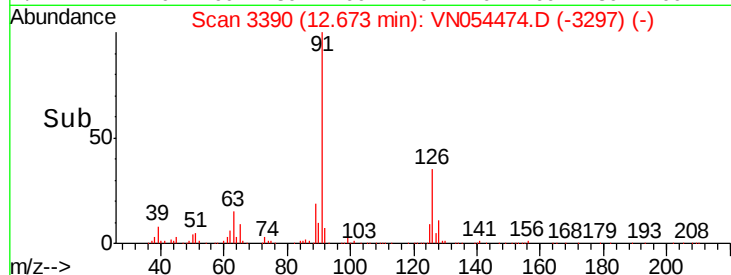
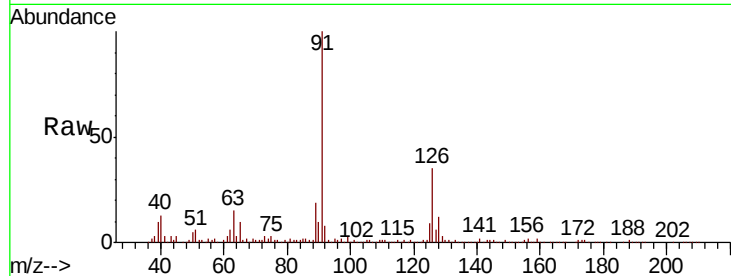
Ion Ratio Lower Upper

91 100

126 35.7 18.7 56.1

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM



#80

1,3,5-Trimethylbenzene

Concen: 21.245 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054474.D

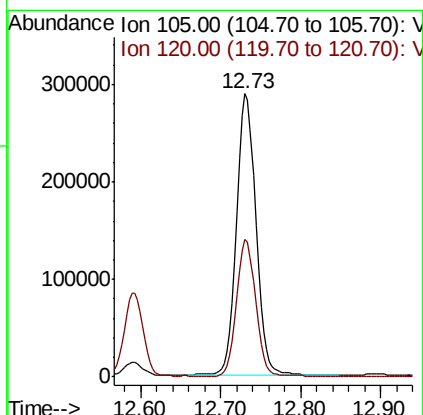
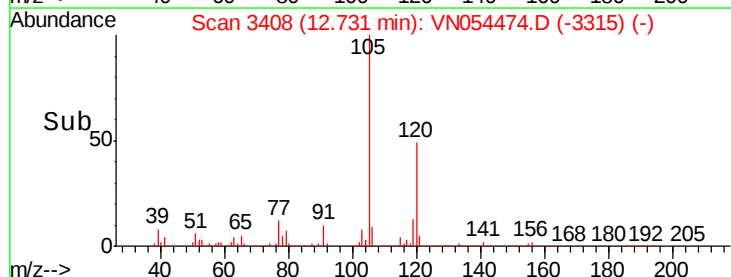
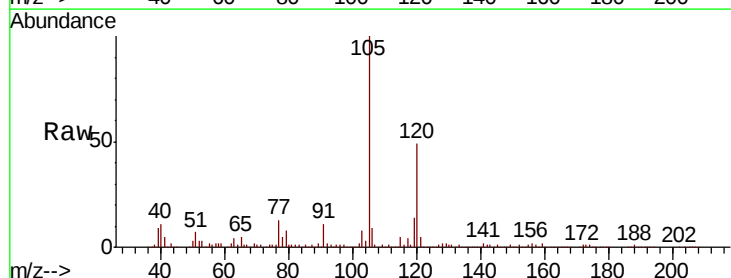
Acq: 20 Mar 2019 20:07

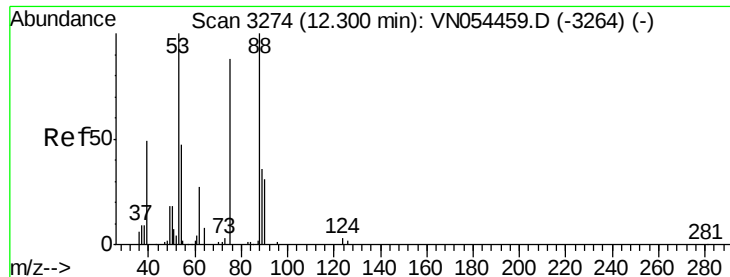
Tgt Ion: 105 Resp: 475312

Ion Ratio Lower Upper

105 100

120 47.4 25.0 75.0





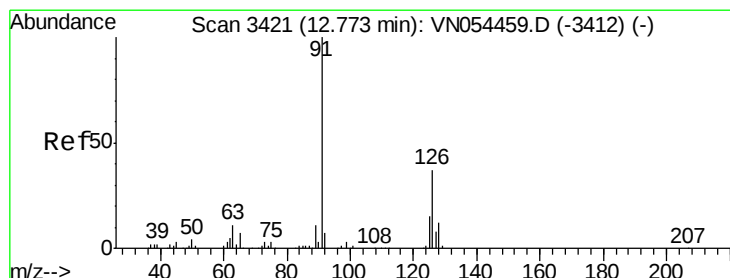
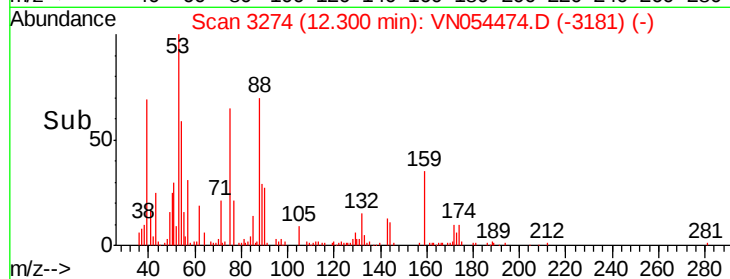
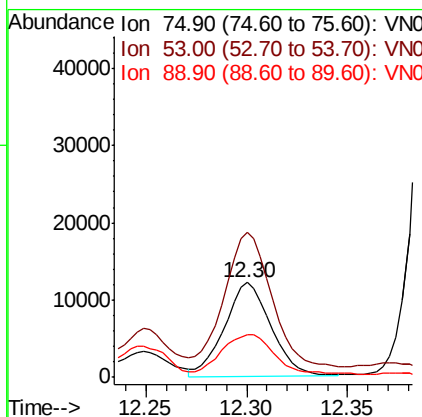
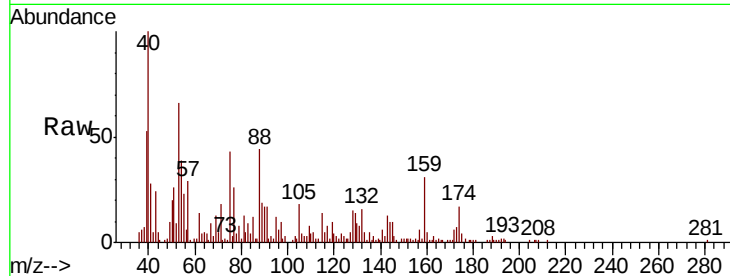
#81
trans-1,4-Dichloro-2-butene
Concen: 14.898 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	144.1	76.2	114.2#
89	48.4	39.2	58.8

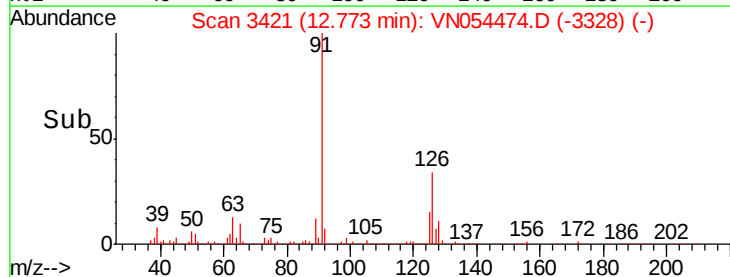
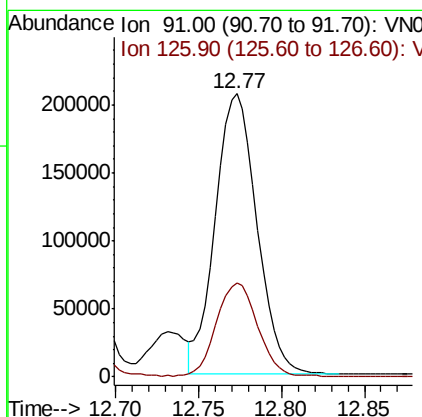
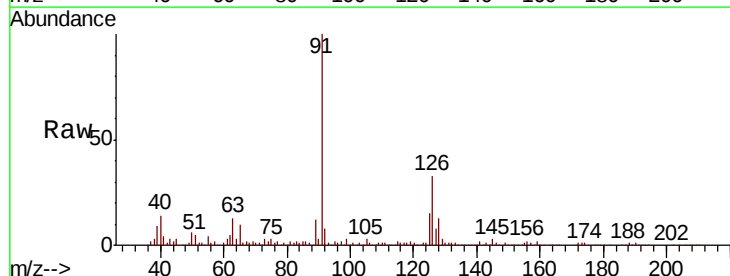
Manual Integrations
APPROVED

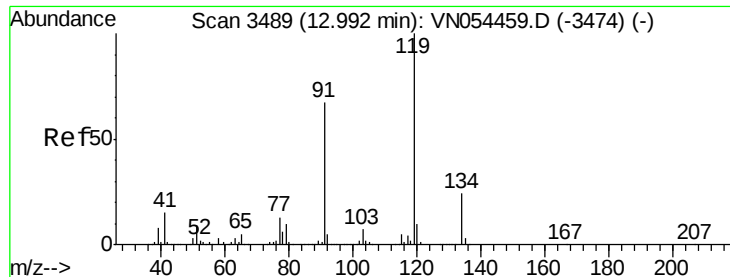
MMDadoda
3/22/2019 3:48:29 PM



#82
4-Chlorotoluene
Concen: 20.046 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.6	18.1	54.1





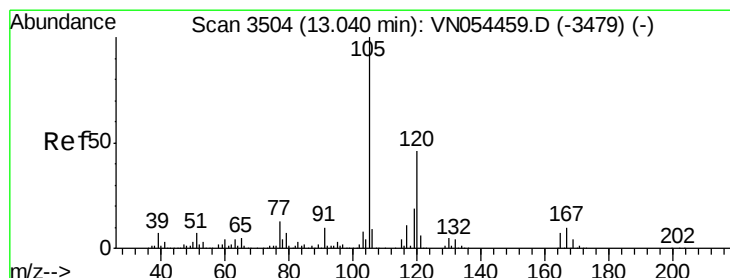
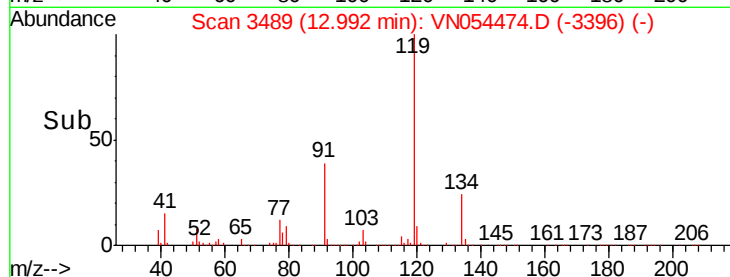
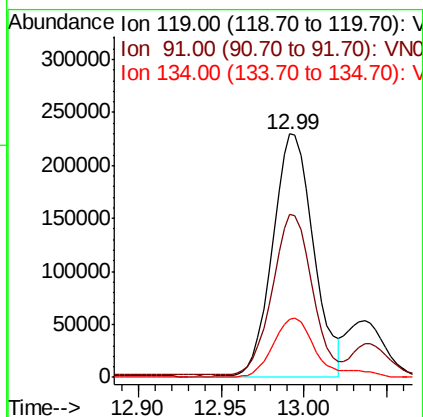
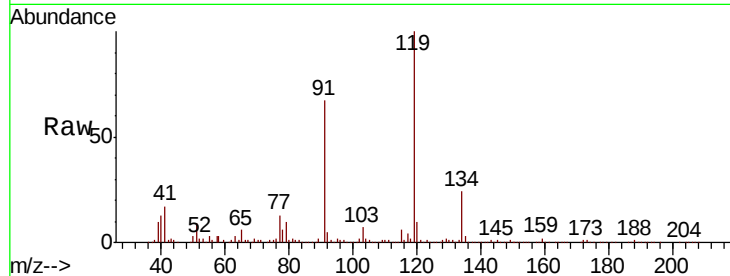
#83
tert-Butylbenzene
Concen: 20.180 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.9	30.9	92.8
134	24.1	13.2	39.6

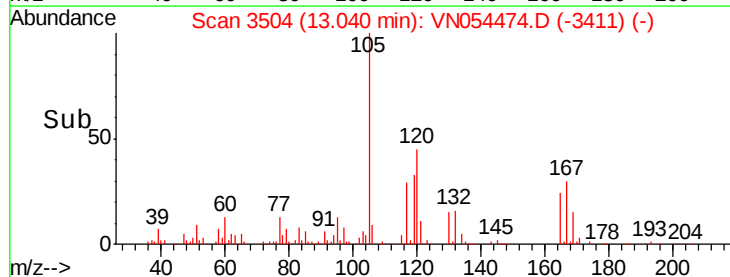
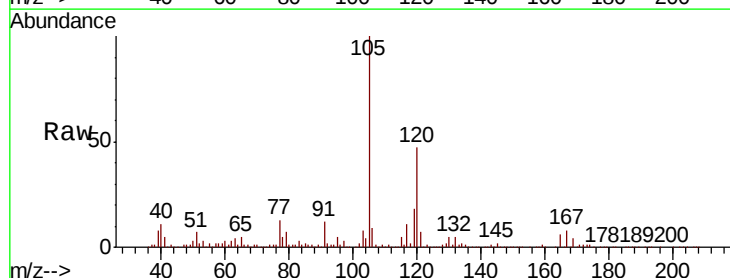
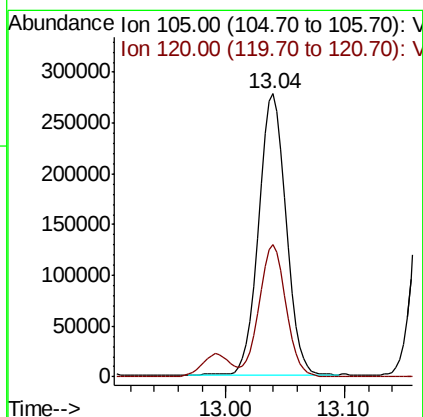
Manual Integrations
APPROVED

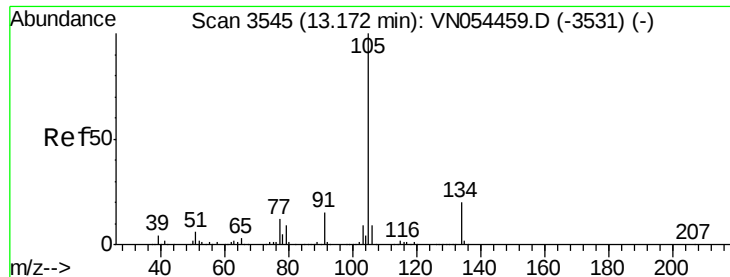
MMDadoda
3/22/2019 3:48:29 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.330 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	23.4	70.3





#85

sec-Butylbenzene

Concen: 20.136 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

Instrument :

MSVOA_N

ClientSampled :

VN0320MBSD01

Tot Ion:105 Resp: 488841

Ion Ratio Lower Upper

105 100

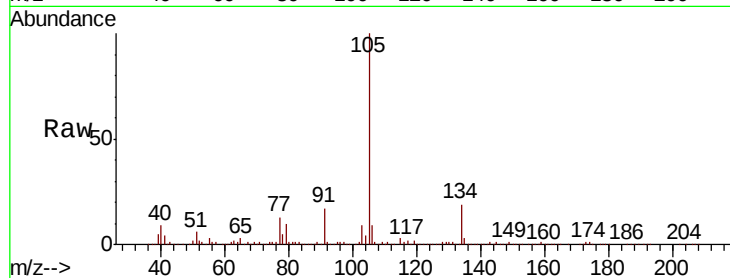
134 20.0 10.7 32.1

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:48:29 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

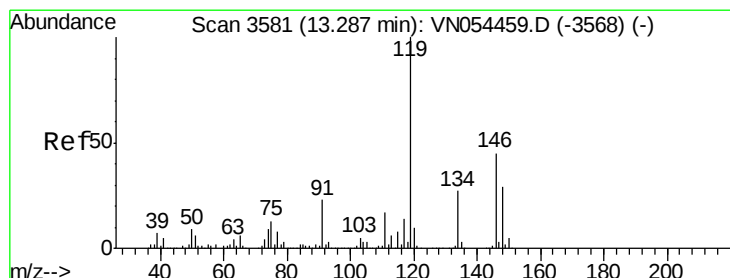
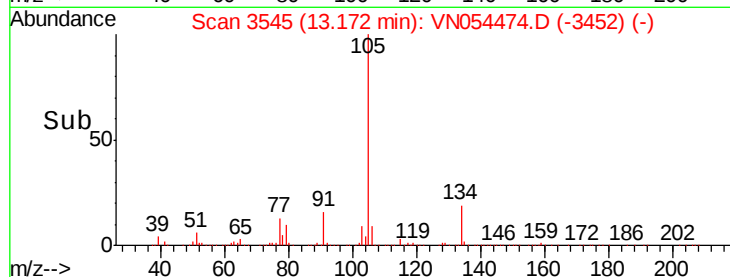
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.769 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054474.D

Acq: 20 Mar 2019 20:07

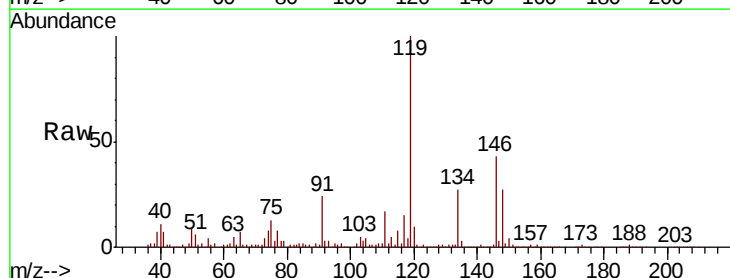
Tgt Ion:119 Resp: 451080

Ion Ratio Lower Upper

119 100

134 27.0 13.6 40.8

91 22.6 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

400000

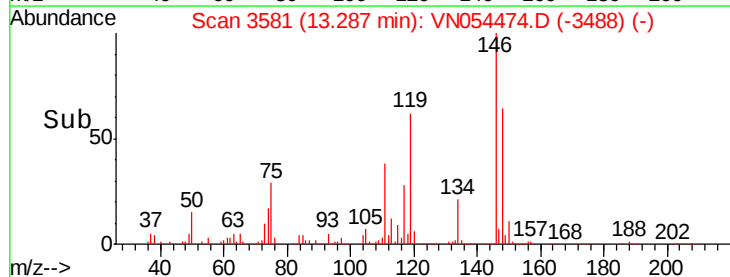
300000

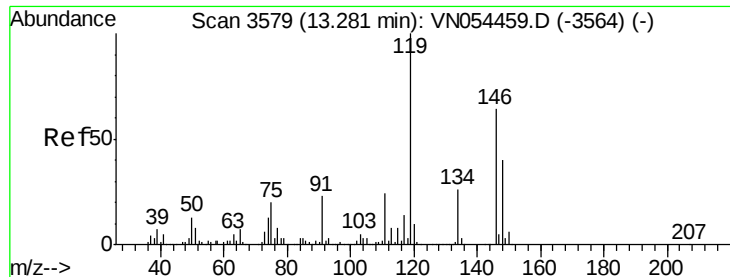
200000

100000

0

Time-->





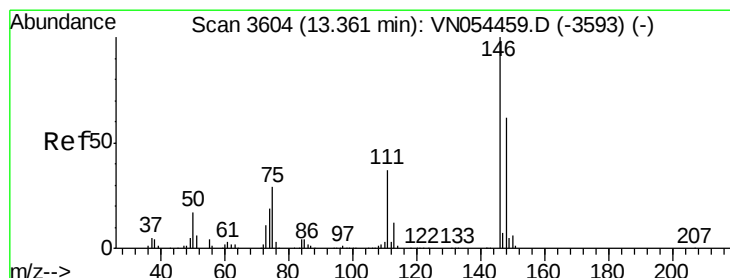
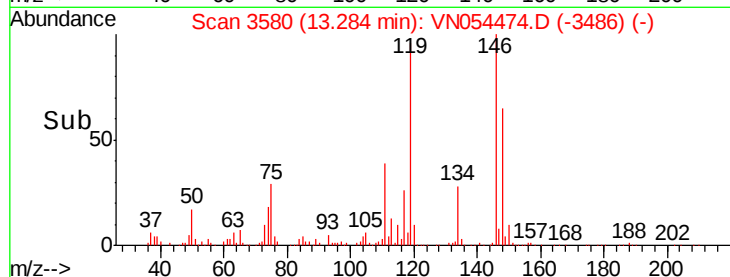
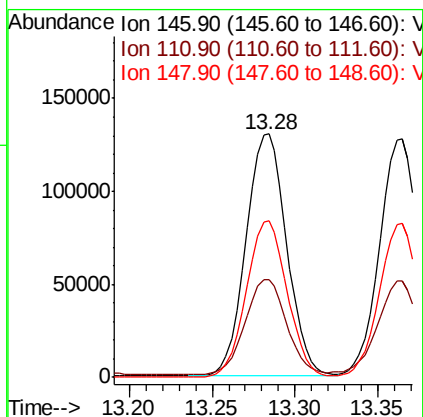
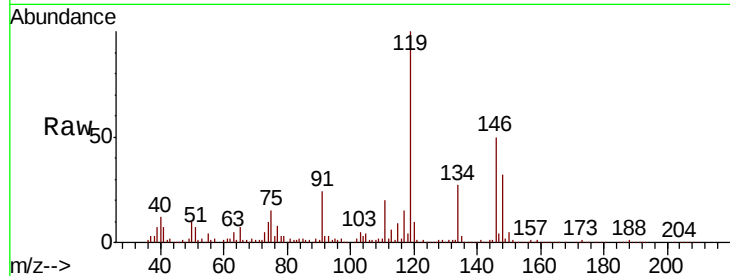
#87
 1,3-Dichlorobenzene
 Concen: 19.789 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Instrument :
 MSVOA_N
 ClientSampled :
 VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	18.8	56.3
148	64.4	32.2	96.6

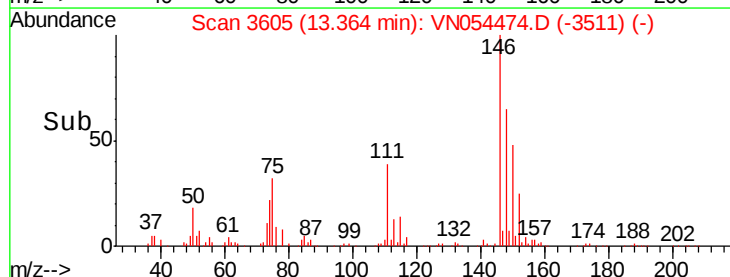
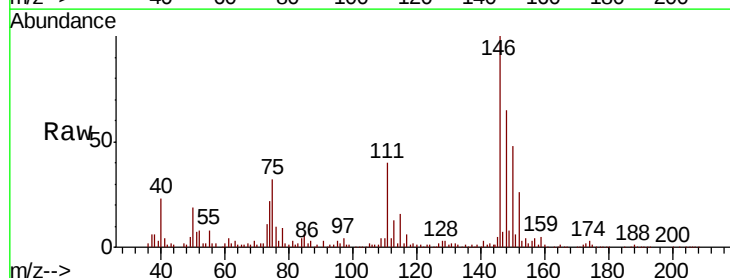
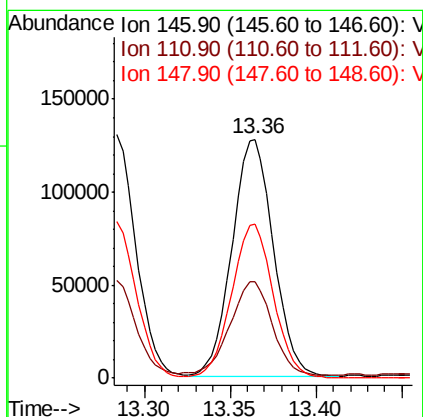
Manual Integrations
 APPROVED

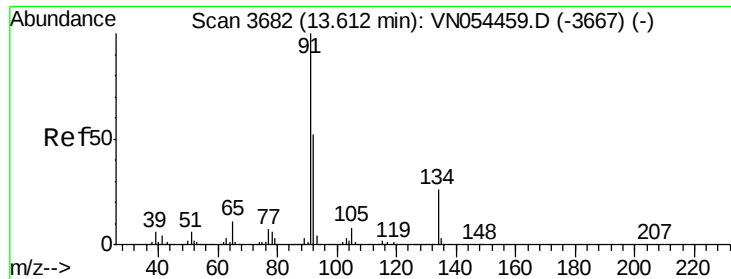
MMDadoda
 3/22/2019 3:48:29 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.537 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	18.1	54.1
148	64.8	32.0	96.0





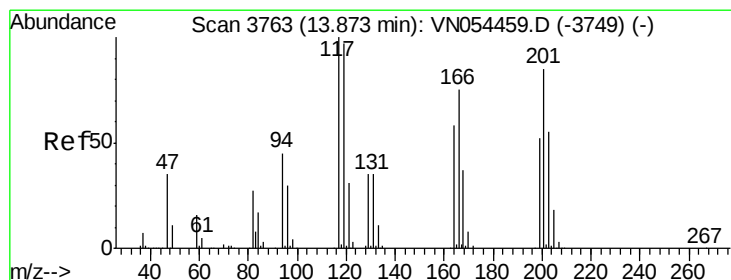
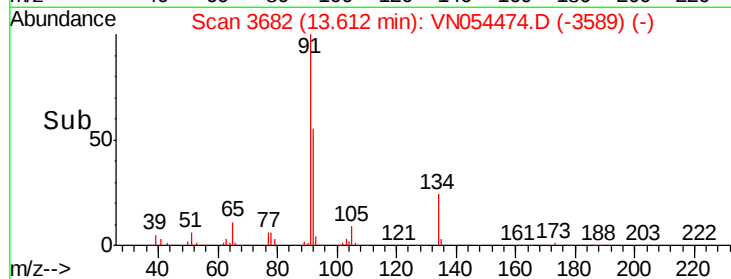
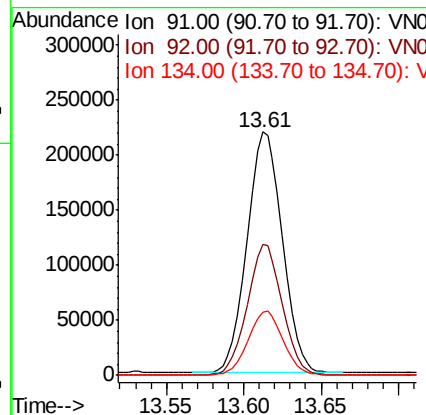
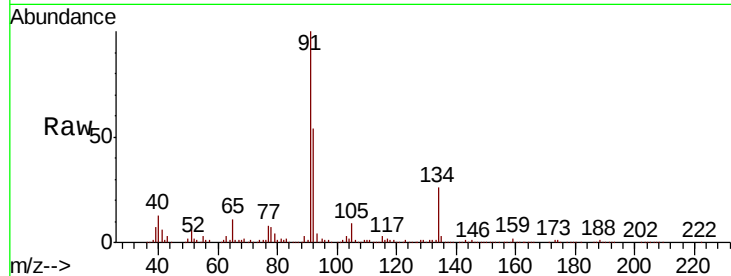
#89
n-Butylbenzene
Concen: 20.514 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.2	78.6
134	26.1	14.3	42.9

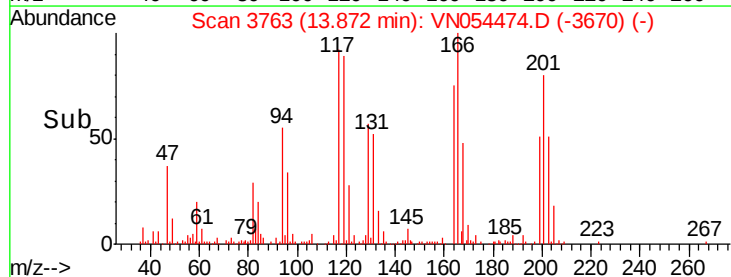
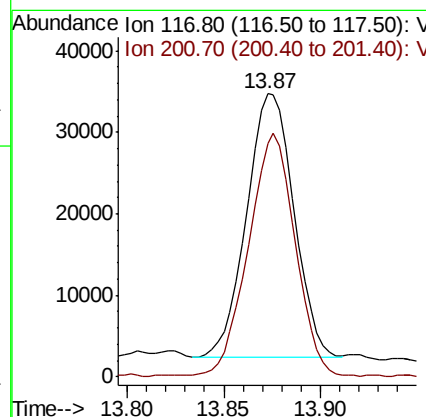
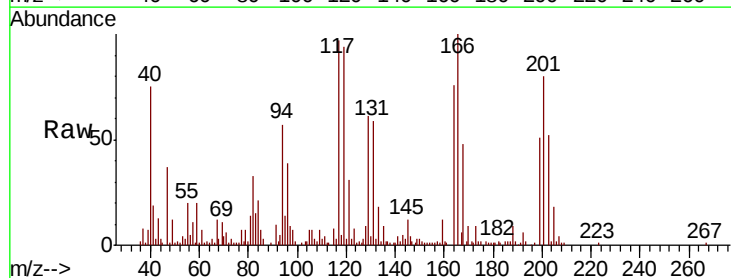
Manual Integrations
APPROVED

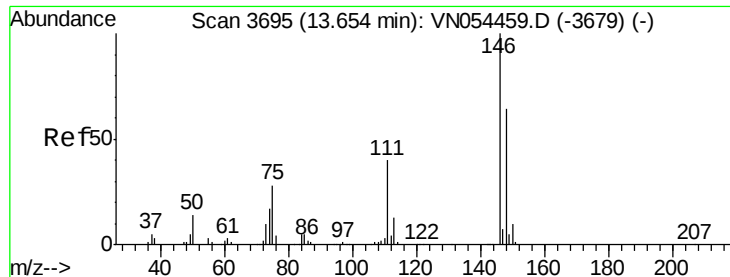
MMDadoda
3/22/2019 3:48:29 PM



#90
Hexachloroethane
Concen: 16.317 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.7	48.1	144.4





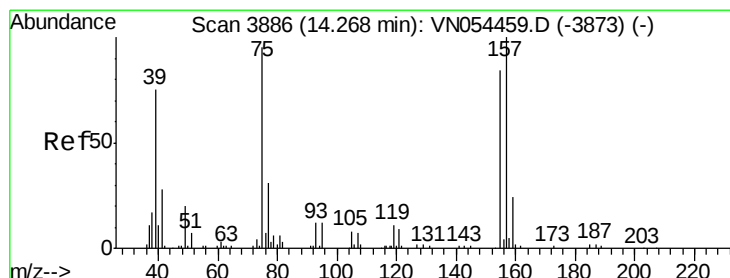
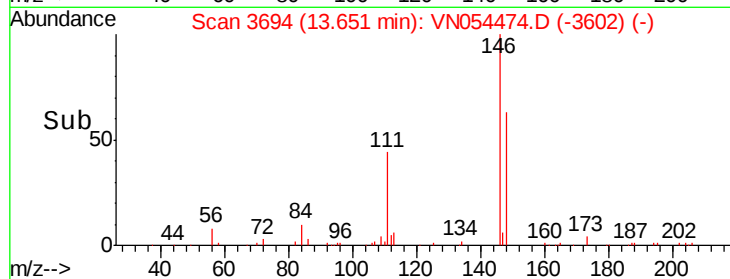
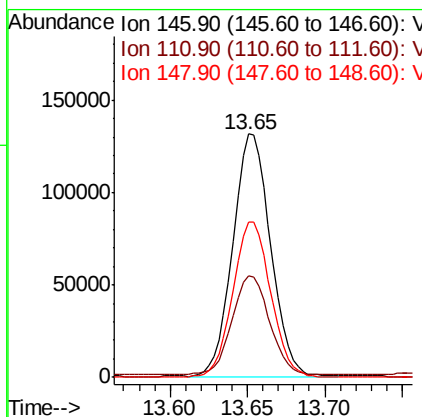
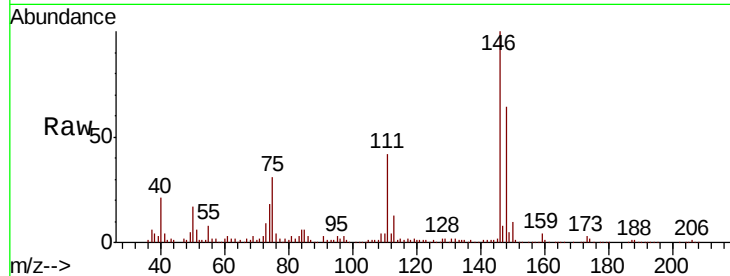
#91
 1,2-Dichlorobenzene
 Concen: 20.391 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0320MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	19.1	57.3
148	64.8	32.4	97.0

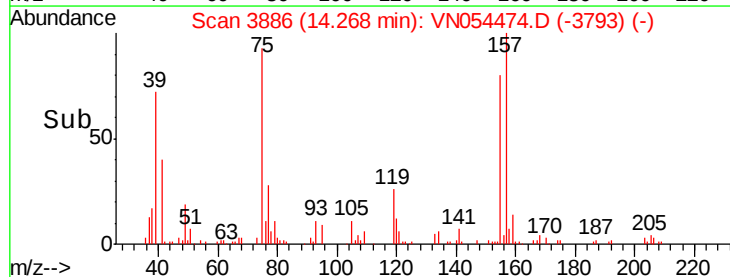
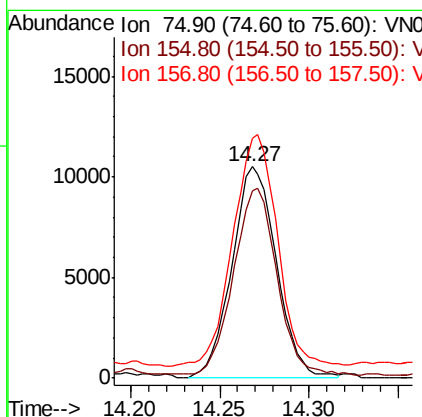
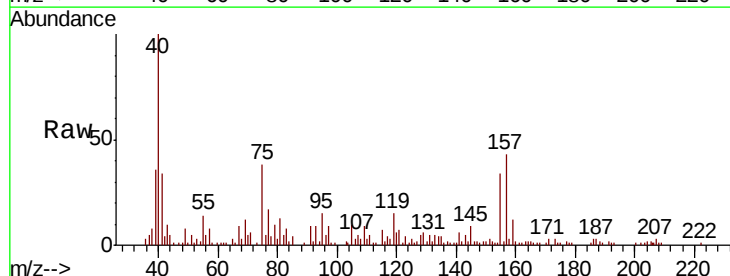
Manual Integrations
 APPROVED

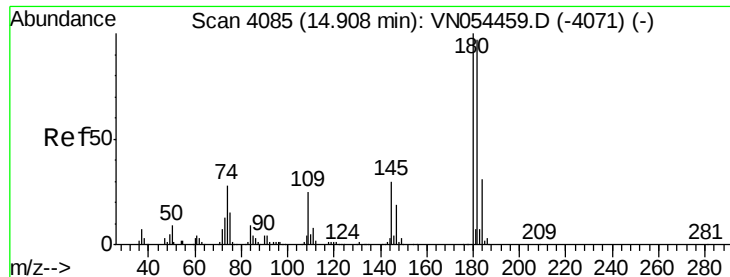
MMDadoda
 3/22/2019 3:48:29 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.010 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.4	50.1	150.3
157	108.5	63.1	189.3





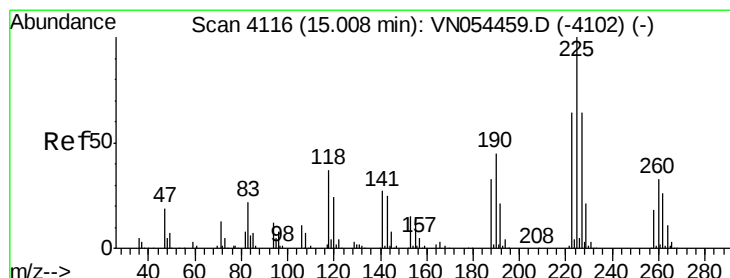
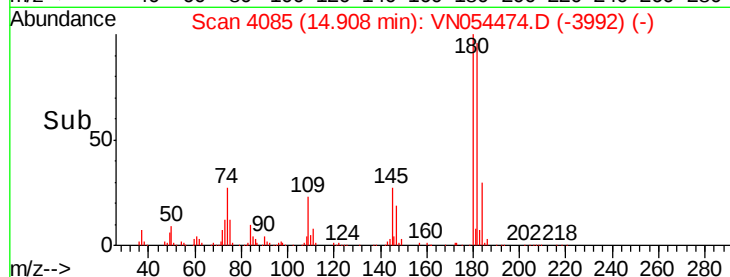
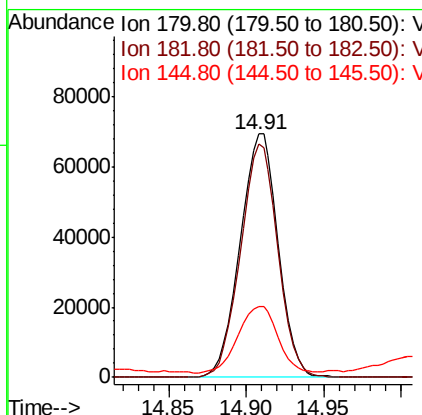
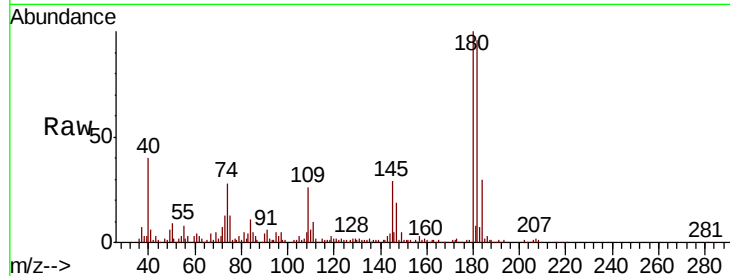
#93
 1,2,4-Trichlorobenzene
 Concen: 21.897 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0320MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.2	48.0	144.2	
145	28.1	14.2	42.8	

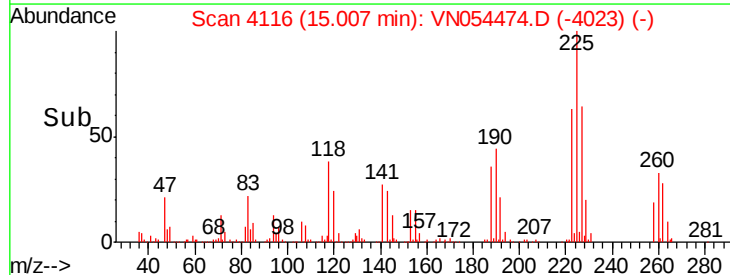
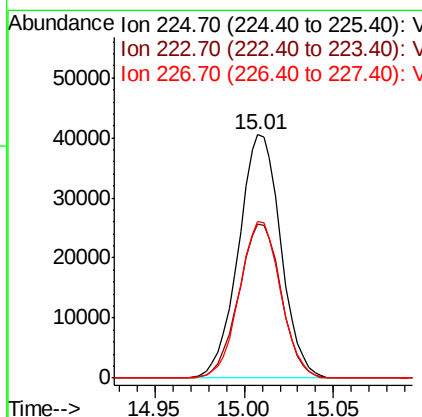
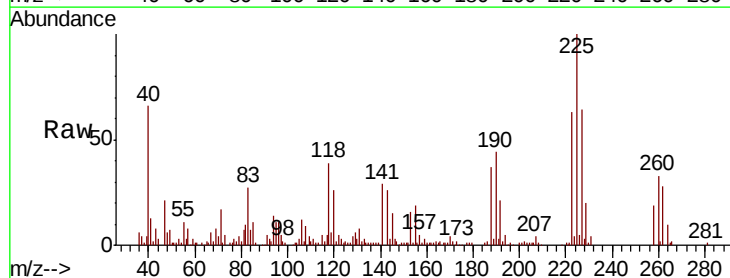
Manual Integrations
 APPROVED

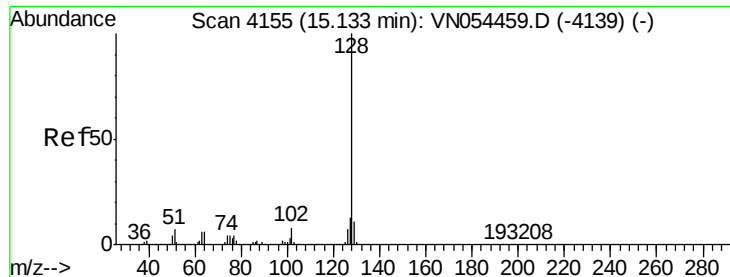
MMDadoda
 3/22/2019 3:48:29 PM



#94
 Hexachlorobutadiene
 Concen: 20.478 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054474.D
 Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.4	31.1	93.5	
227	62.8	31.9	95.9	





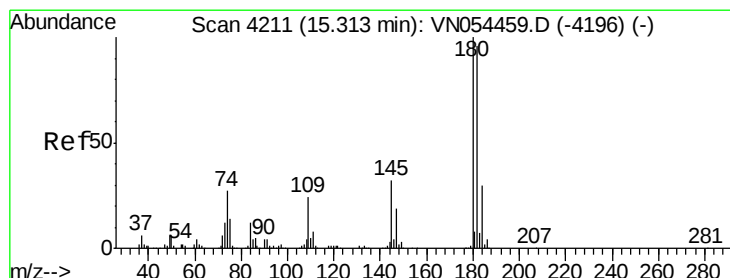
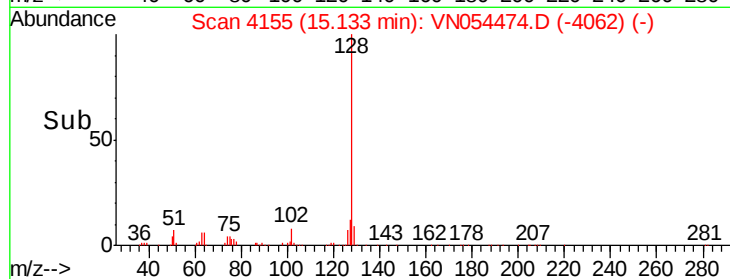
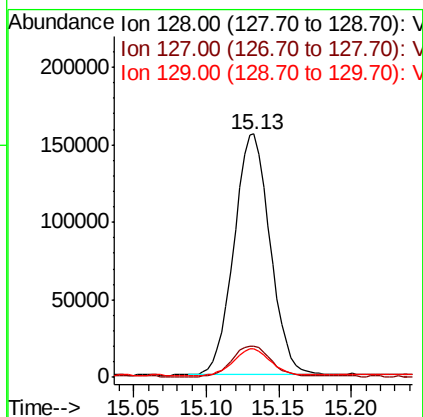
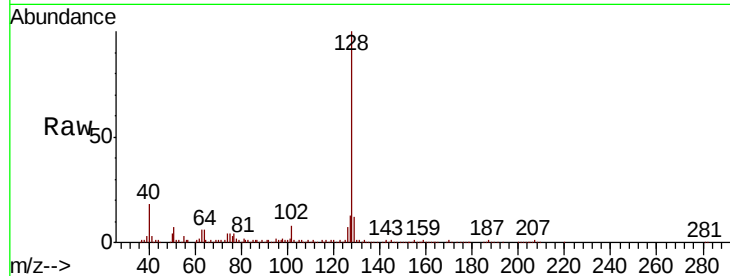
#95
Naphthalene
Concen: 22.289 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
VN0320MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	269330		
127	13.9		10.1	15.1
129	11.5		8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:48:29 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.901 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN054474.D
Acq: 20 Mar 2019 20:07

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	118083		
182	96.8		47.5	142.6
145	33.6		14.8	44.3

