

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031219\
 Data File : VN054158.D
 Acq On : 12 Mar 2019 10:29
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/13/2019 11:49:04 AM

Quant Time: Mar 13 03:32:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 02:32:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1477998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2264646	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1922063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	794307	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	79421	5.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.12%	
35) Dibromofluoromethane	7.59	113	71318	4.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.76%	
50) Toluene-d8	10.09	98	260274	4.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.66%	
62) 4-Bromofluorobenzene	12.40	95	86325	4.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	66811	4.770	ug/l	97
3) Chloromethane	2.06	50	73689	5.416	ug/l	97
4) Vinyl Chloride	2.19	62	90237	5.802	ug/l	98
5) Bromomethane	2.57	94	61820	5.739	ug/l	92
6) Chloroethane	2.71	64	55724	5.922	ug/l	97
7) Trichlorofluoromethane	3.02	101	123287	5.963	ug/l	98
8) Diethyl Ether	3.41	74	47113	5.000	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.75	101	77879	5.026	ug/l	96
10) Methyl Iodide	3.94	142	74411	4.777	ug/l	100
11) Tert butyl alcohol	4.83	59	25671m	23.760	ug/l	
12) 1,1-Dichloroethene	3.73	96	78876	5.137	ug/l	99
13) Acrolein	3.61	56	28178	27.635	ug/l	97
14) Allyl chloride	4.32	41	95003	4.822	ug/l	97
15) Acrylonitrile	5.00	53	108351	24.513	ug/l	99
16) Acetone	3.82	43	109187	24.295	ug/l	99
17) Carbon Disulfide	4.04	76	179301	4.658	ug/l	99
18) Methyl Acetate	4.33	43	42912	4.719	ug/l	94
19) Methyl tert-butyl Ether	5.05	73	188399	4.950	ug/l	98
20) Methylene Chloride	4.54	84	75902	5.143	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	72537	4.930	ug/l	93
22) Diisopropyl ether	5.96	45	188804	4.802	ug/l	96
23) Vinyl Acetate	5.90	43	689092	23.770	ug/l	99
24) 1,1-Dichloroethane	5.84	63	129246	5.119	ug/l	99
25) 2-Butanone	6.85	43	127050	24.086	ug/l	95
26) 2,2-Dichloropropane	6.82	77	111897	5.040	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	81903	4.990	ug/l	98
28) Bromochloromethane	7.19	49	53752	5.208	ug/l	97
29) Tetrahydrofuran	7.22	42	85037	25.073	ug/l	97
30) Chloroform	7.37	83	132386	5.025	ug/l	98
31) Cyclohexane	7.65	56	130935	4.428	ug/l #	88
32) 1,1,1-Trichloroethane	7.57	97	118651	4.987	ug/l	99
36) 1,1-Dichloropropene	7.79	75	100323	4.810	ug/l	99
37) Ethyl Acetate	6.94	43	52992	4.307	ug/l #	94
38) Carbon Tetrachloride	7.77	117	104108	4.760	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031219\
 Data File : VN054158.D
 Acq On : 12 Mar 2019 10:29
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/13/2019 11:49:04 AM

Quant Time: Mar 13 03:32:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 02:32:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	121193	4.723	ug/l	98
40) Benzene	8.04	78	290180	4.862	ug/l	97
41) Methacrylonitrile	7.18	41	31937	4.854	ug/l	98
42) 1,2-Dichloroethane	8.12	62	101157	5.020	ug/l	99
43) Isopropyl Acetate	8.17	43	97736	4.647	ug/l	99
44) Trichloroethene	8.84	130	91512	4.936	ug/l	100
45) 1,2-Dichloropropane	9.12	63	73788	4.979	ug/l	97
46) Dibromomethane	9.21	93	48067	4.801	ug/l	98
47) Bromodichloromethane	9.40	83	93435	4.655	ug/l	93
48) Methyl methacrylate	9.20	41	46743	4.379	ug/l	95
49) 1,4-Dioxane	9.21	88	14390	95.306	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	247928	22.273	ug/l	99
52) Toluene	10.16	92	178079	4.706	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	86803	5.617	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	105956	4.530	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	66350	4.802	ug/l	97
56) Ethyl methacrylate	10.43	69	73717	4.474	ug/l	100
57) 1,3-Dichloropropane	10.71	76	107462	4.756	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	132882	34.168	ug/l	100
59) 2-Hexanone	10.75	43	163277	22.044	ug/l	99
60) Dibromochloromethane	10.90	129	67785	4.359	ug/l	100
61) 1,2-Dibromoethane	11.00	107	65525	4.667	ug/l	98
64) Tetrachloroethene	10.63	164	98332	5.291	ug/l	97
65) Chlorobenzene	11.43	112	206723	4.898	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	74011	4.827	ug/l	95
67) Ethyl Benzene	11.51	91	340644	4.869	ug/l	98
68) m/p-Xylenes	11.62	106	265326	9.704	ug/l	100
69) o-Xylene	11.95	106	133351	5.003	ug/l	98
70) Styrene	11.96	104	190239	4.551	ug/l	98
71) Bromoform	12.13	173	42697	5.832	ug/l #	99
73) Isopropylbenzene	12.25	105	349785	5.504	ug/l	99
74) N-amyl acetate	12.07	43	63809	4.524	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	73323	5.415	ug/l	96
76) 1,2,3-Trichloropropane	12.55	75	66152m	5.590	ug/l	
77) Bromobenzene	12.53	156	88867	5.285	ug/l	97
78) n-propylbenzene	12.59	91	363199	5.267	ug/l	99
79) 2-Chlorotoluene	12.67	91	224843	5.423	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	287077	5.431	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	14804	6.495	ug/l	95
82) 4-Chlorotoluene	12.77	91	208971	5.048	ug/l	100
83) tert-Butylbenzene	12.99	119	269163	5.532	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	270897	5.224	ug/l	99
85) sec-Butylbenzene	13.17	105	346577	5.493	ug/l	99
86) p-Isopropyltoluene	13.29	119	289186	5.224	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	142087	5.014	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	134738	4.840	ug/l	94
89) n-Butylbenzene	13.61	91	195606	4.651	ug/l	99
90) Hexachloroethane	13.87	117	44544	4.860	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	141614	5.112	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	9970	4.759	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031219\
Data File : VN054158.D
Acq On : 12 Mar 2019 10:29
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

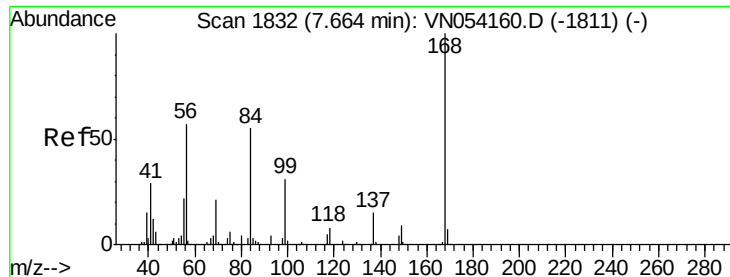
Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM

Quant Time: Mar 13 03:32:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 02:32:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	55867	5.689	ug/l	99
94) Hexachlorobutadiene	15.01	225	59404	5.630	ug/l	99
95) Naphthalene	15.13	128	110142	6.412	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	61472	4.177	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:168 Resp: 1477998

Ion Ratio Lower Upper

168 100

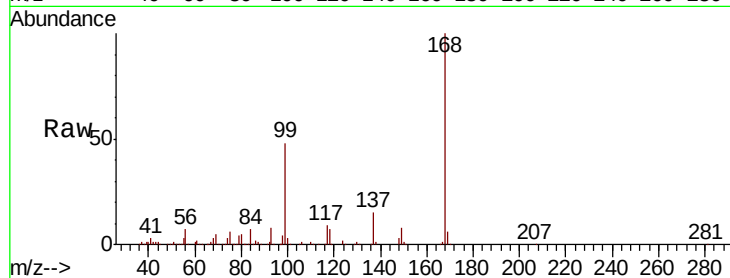
99 47.1 37.1 55.7

Manual Integrations

APPROVED

MMDadoda

3/13/2019 11:49:04 AM



Abundance Ion 167.90 (167.60 to 168.60): VN054160.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN054160.D (-1811) (-)

7.66

600000

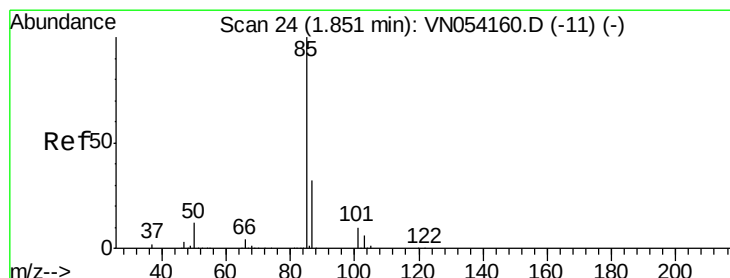
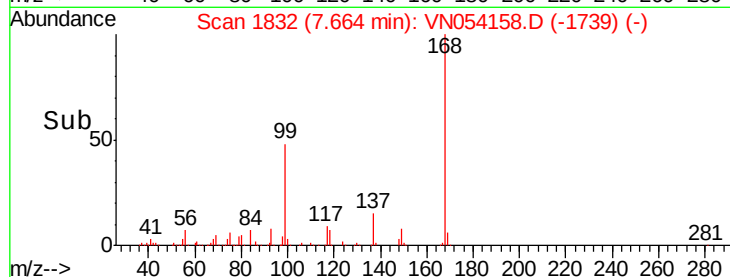
400000

200000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 4.770 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054158.D

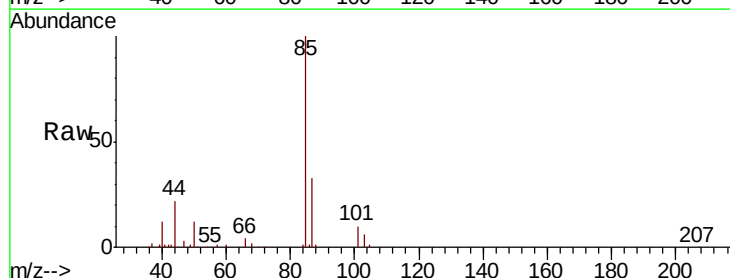
Acq: 12 Mar 2019 10:29

Tgt Ion: 85 Resp: 66811

Ion Ratio Lower Upper

85 100

87 33.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN054160.D (-11) (-)

Ion 86.90 (86.60 to 87.60): VN054160.D (-11) (-)

1.85

50000

40000

30000

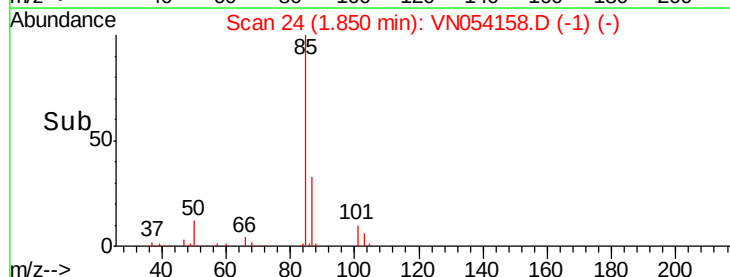
20000

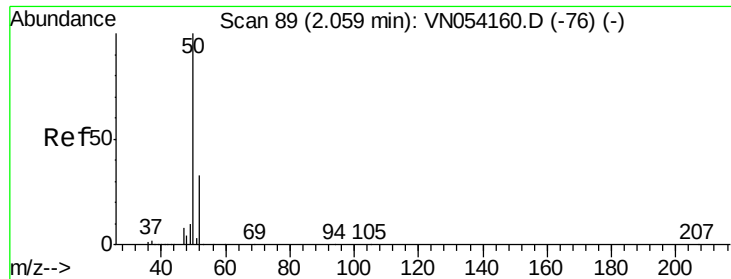
10000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 5.416 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tgt Ion: 50 Resp: 73689

Ion Ratio Lower Upper

50 100

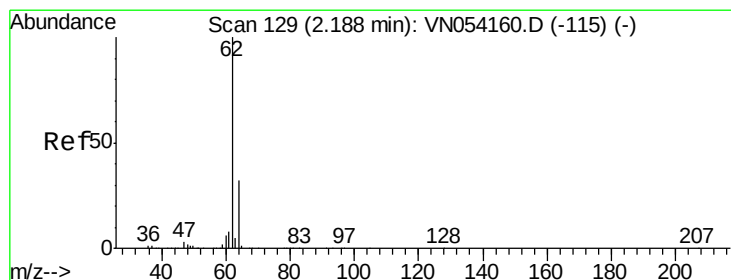
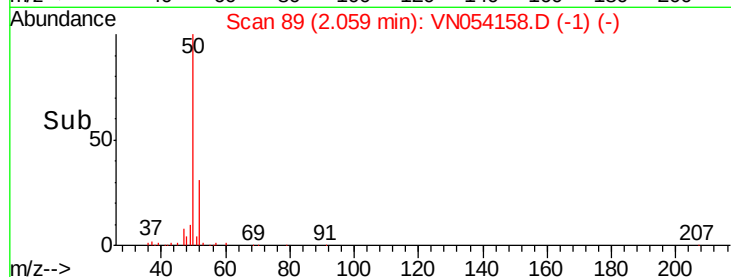
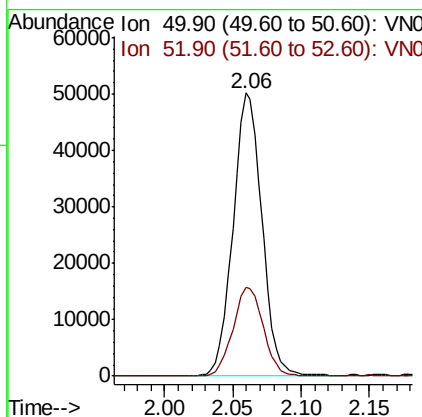
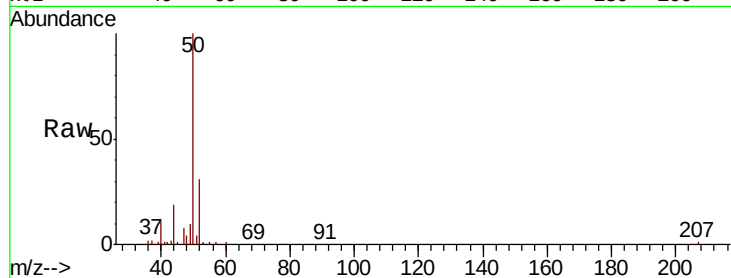
52 31.3 26.4 39.6

Manual Integrations

APPROVED

MMDadoda

3/13/2019 11:49:04 AM



#4

Vinyl Chloride

Concen: 5.802 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054158.D

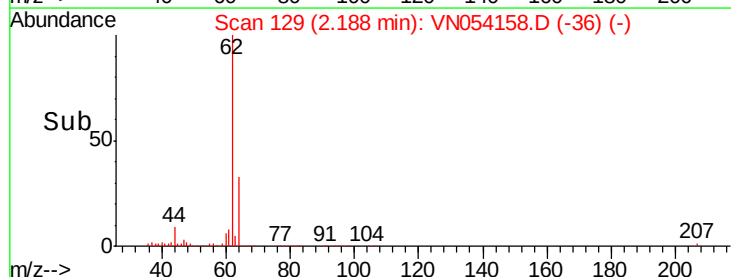
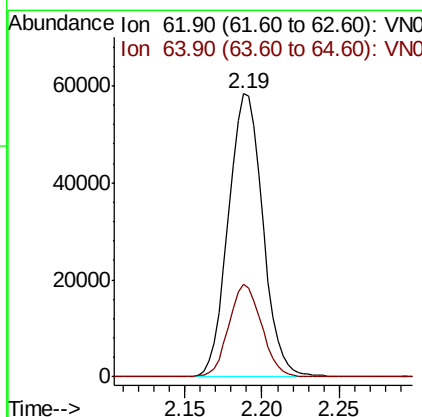
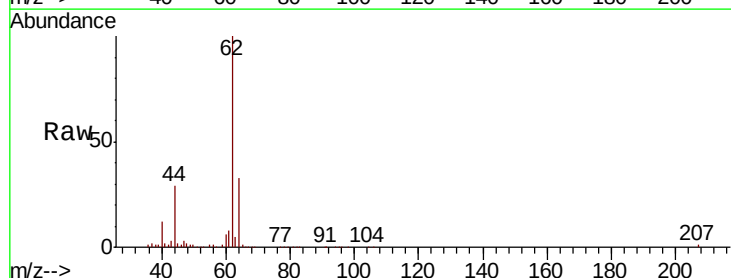
Acq: 12 Mar 2019 10:29

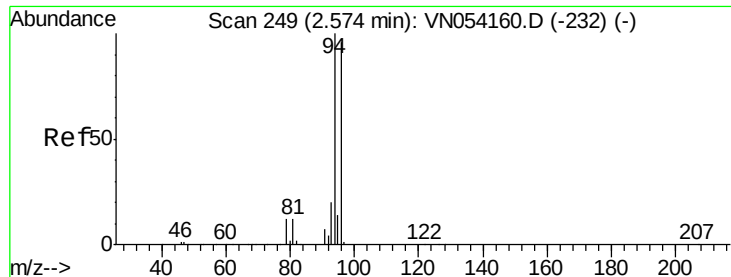
Tgt Ion: 62 Resp: 90237

Ion Ratio Lower Upper

62 100

64 32.8 25.5 38.3





#5

Bromomethane

Concen: 5.739 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 61820

Ion Ratio Lower Upper

94 100

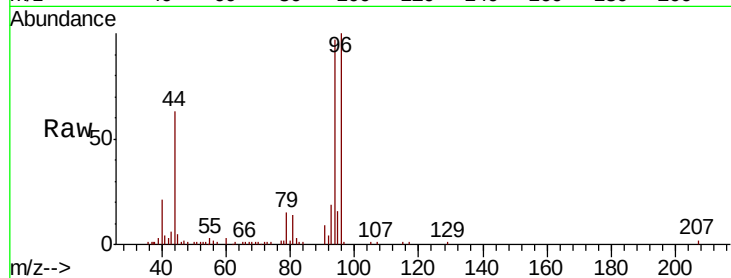
96 104.0 77.0 115.4

Manual Integrations

APPROVED

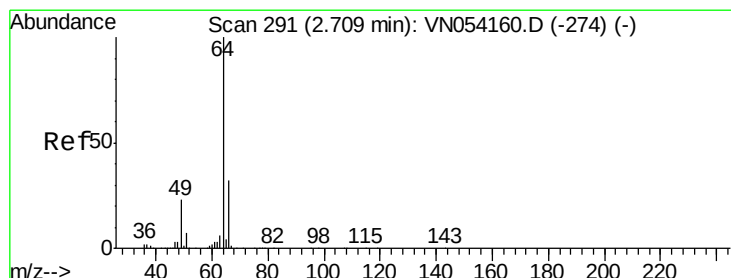
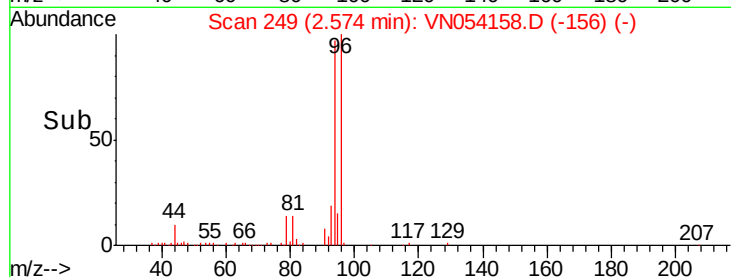
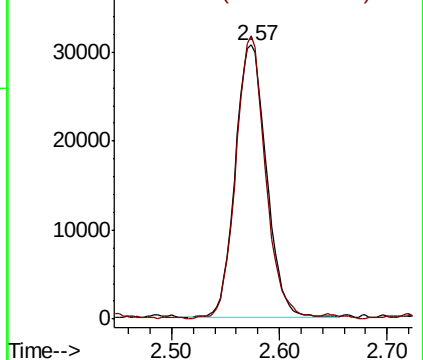
MMDadoda

3/13/2019 11:49:04 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 5.922 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054158.D

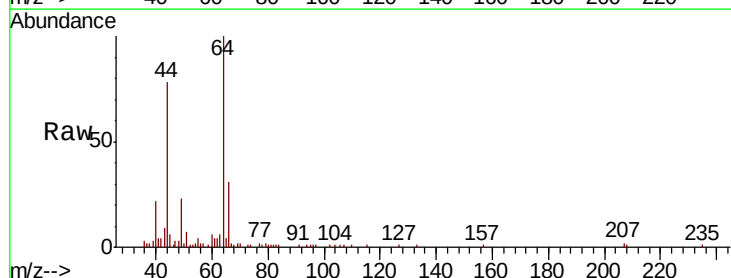
Acq: 12 Mar 2019 10:29

Tgt Ion: 64 Resp: 55724

Ion Ratio Lower Upper

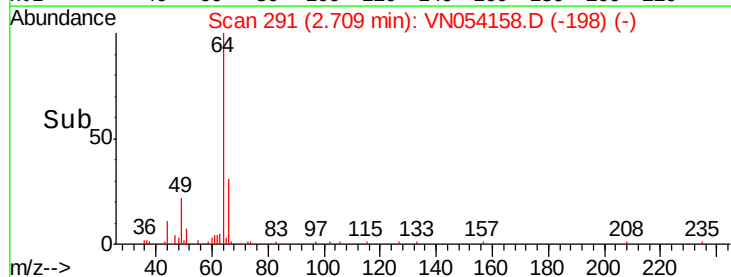
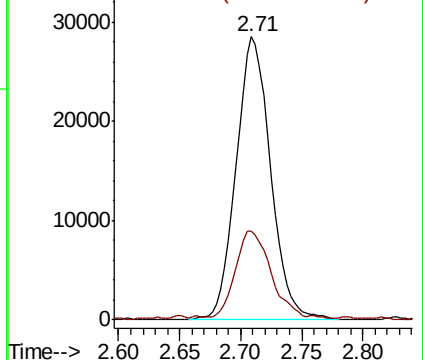
64 100

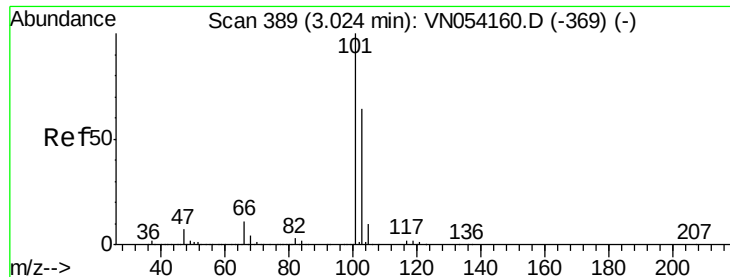
66 30.6 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

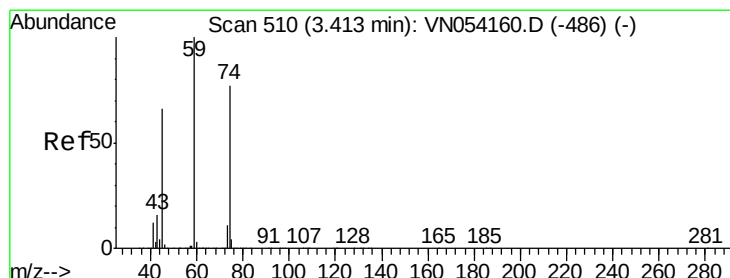
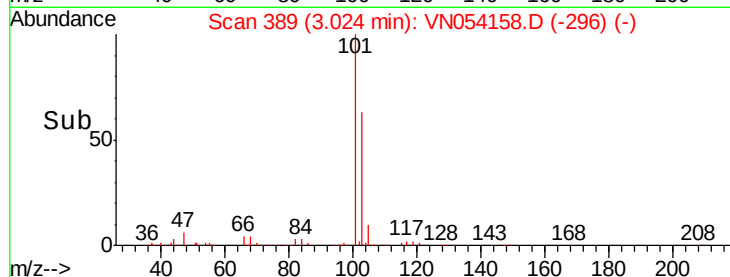
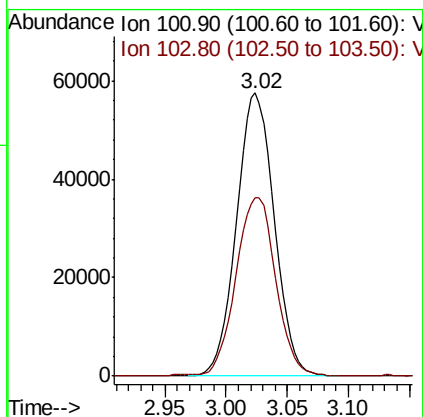
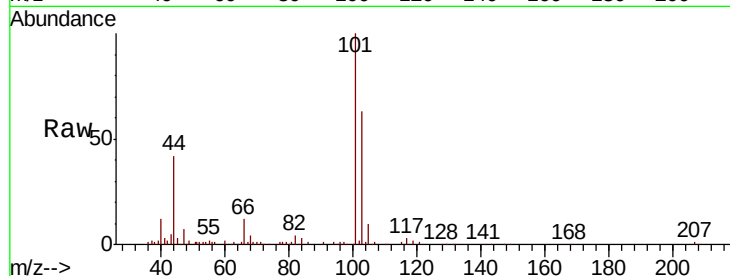
Trichlorofluoromethane
Concen: 5.963 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	123287		
103	63.0	51.4	77.2	

Manual Integrations
APPROVED

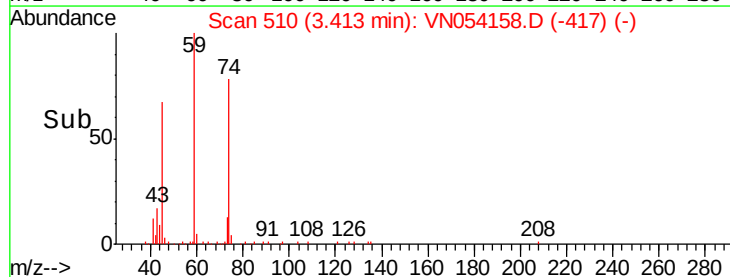
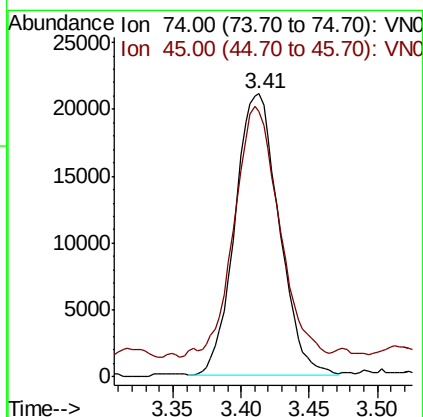
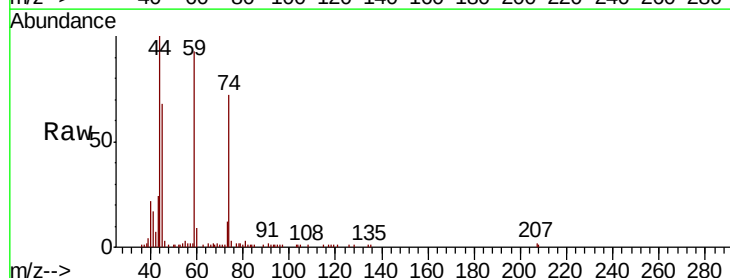
MMDadoda
3/13/2019 11:49:04 AM

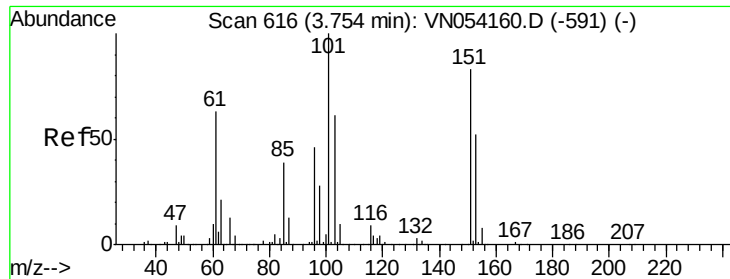


#8

Diethyl Ether
Concen: 5.000 ug/l
RT: 3.41 min Scan# 510
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	47113		
45	91.0	43.1	129.4	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.026 ug/l

RT: 3.75 min Scan# 616

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

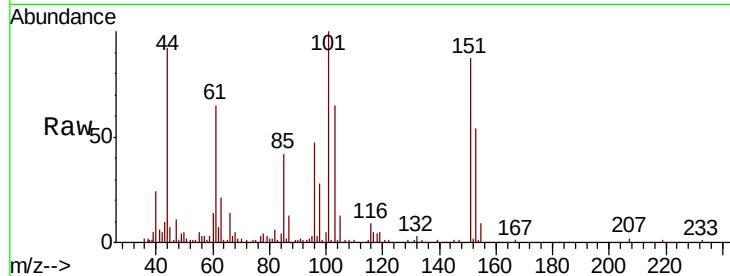
ClientSampleId :

VSTDIC005

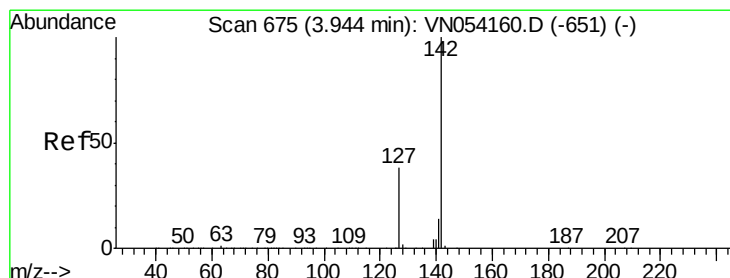
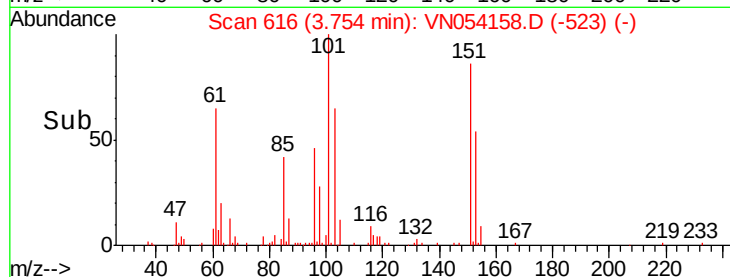
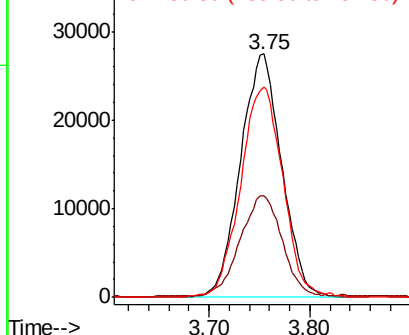
Tgt Ion:	101	Resp:	77879
Ion Ratio	Lower	Upper	
101	100		
85	43.1	32.4	48.6
151	88.3	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



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



#10

Methyl Iodide

Concen: 4.777 ug/l

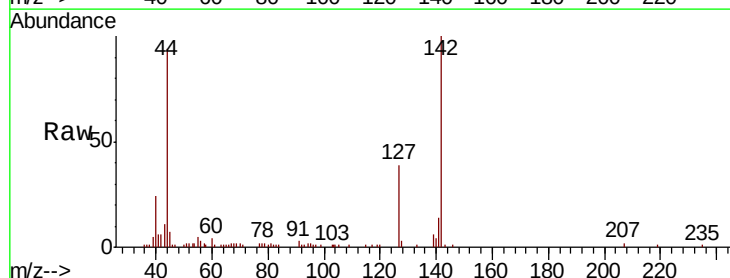
RT: 3.94 min Scan# 674

Delta R.T. -0.00 min

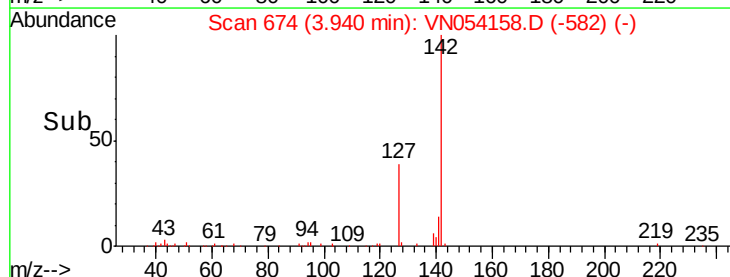
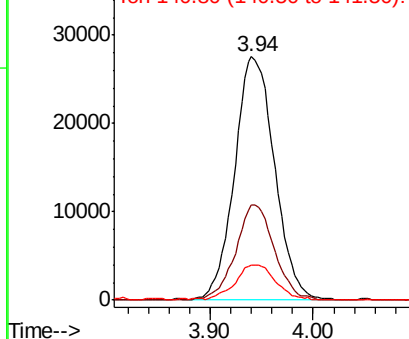
Lab File: VN054158.D

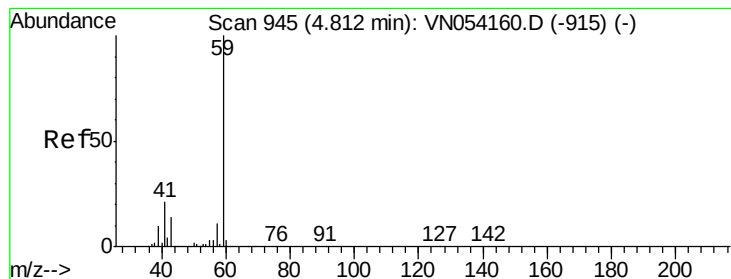
Acq: 12 Mar 2019 10:29

Tgt Ion:	142	Resp:	74411
Ion Ratio	Lower	Upper	
142	100		
127	38.0	30.3	45.5
141	14.5	11.2	16.8



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





#11

Tert butyl alcohol

Concen: 23.760 ug/l m

RT: 4.83 min Scan# 950

Delta R.T. 0.02 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 25671

Ion Ratio Lower Upper

59 100

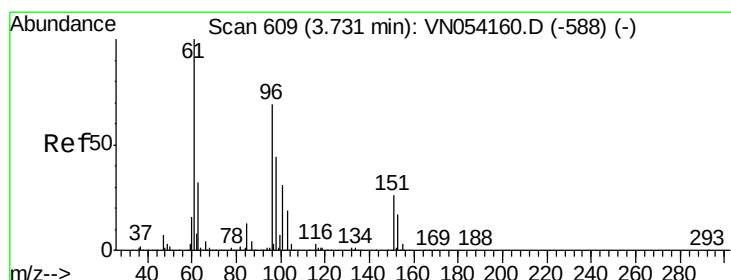
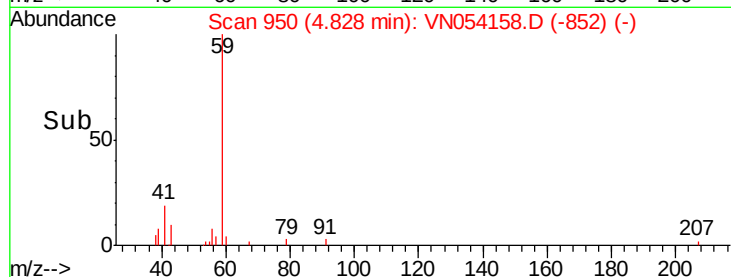
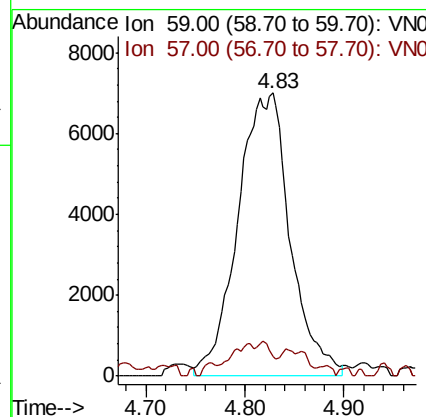
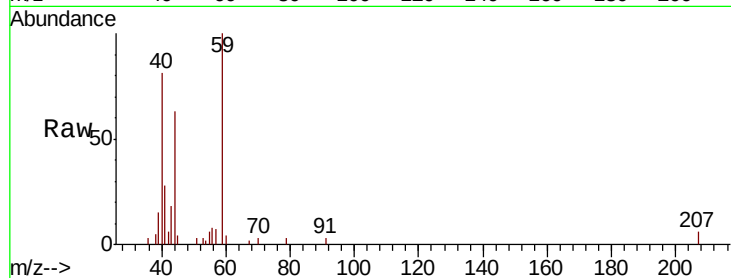
57 0.0 9.0 13.6#

Manual Integrations

APPROVED

MMDadoda

3/13/2019 11:49:04 AM



#12

1,1-Dichloroethene

Concen: 5.137 ug/l

RT: 3.73 min Scan# 609

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

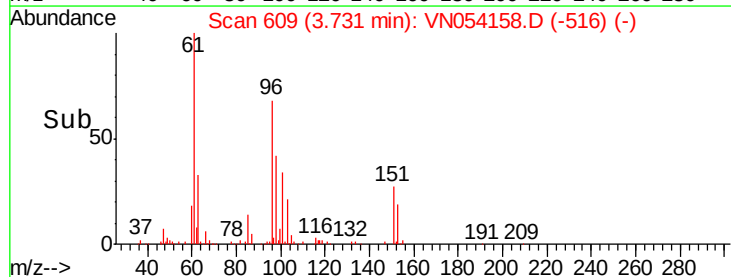
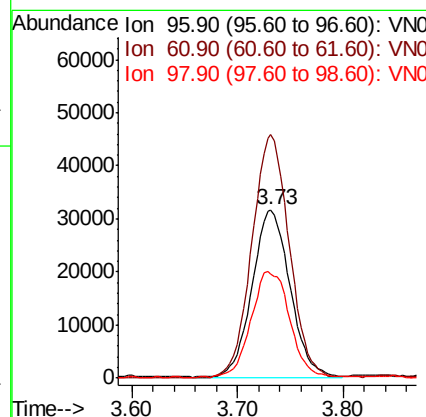
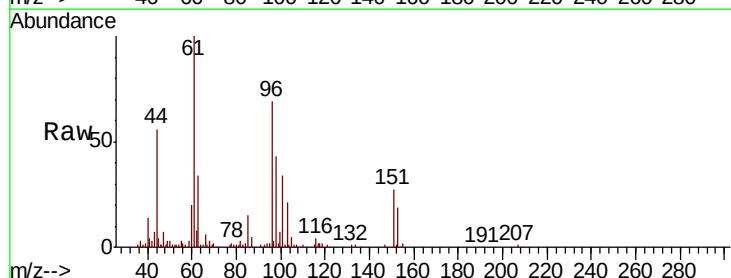
Tgt Ion: 96 Resp: 78876

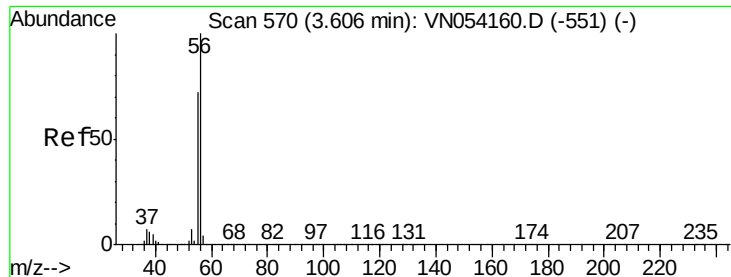
Ion Ratio Lower Upper

96 100

61 145.7 116.5 174.7

98 62.0 51.0 76.4





#13

Acrolein

Concen: 27.635 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tgt Ion: 56 Resp: 28178

Ion Ratio Lower Upper

56 100

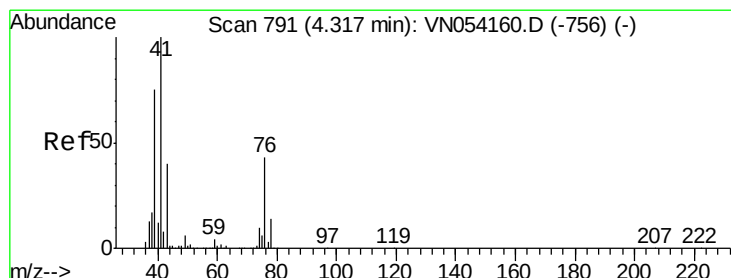
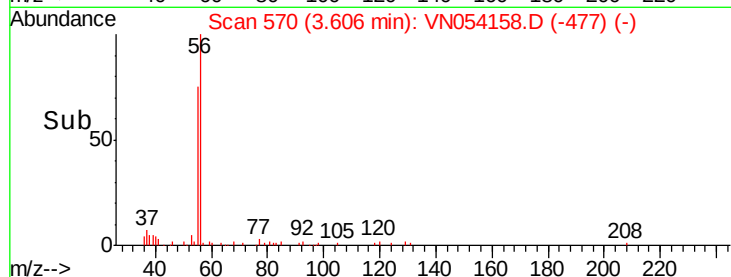
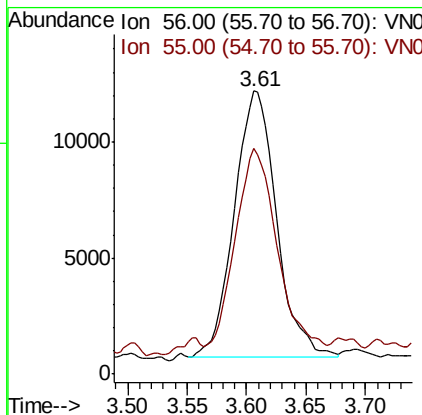
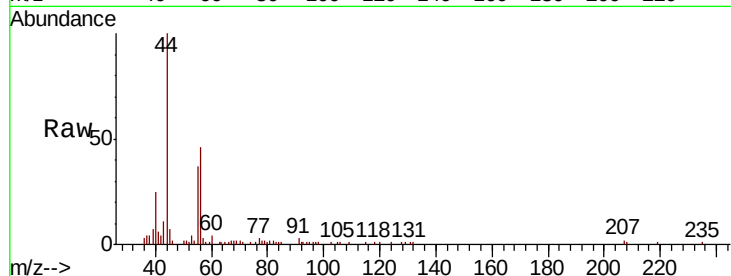
55 73.5 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

3/13/2019 11:49:04 AM



#14

Allyl chloride

Concen: 4.822 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

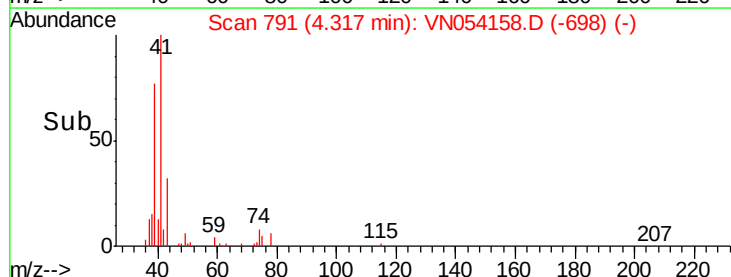
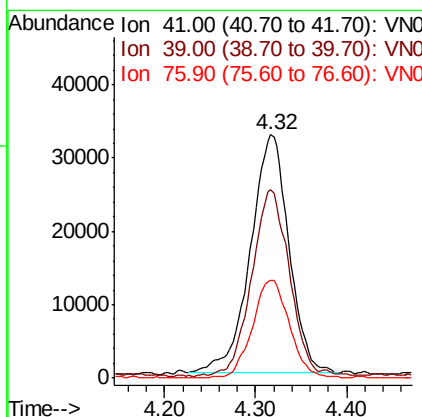
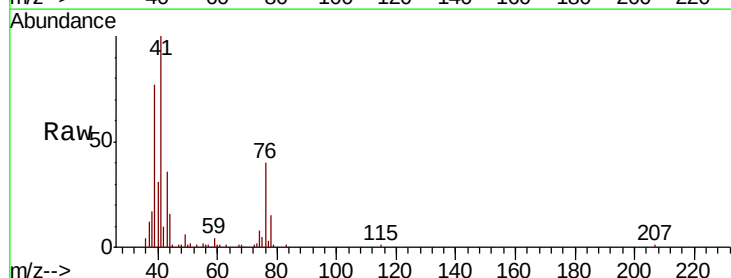
Tgt Ion: 41 Resp: 95003

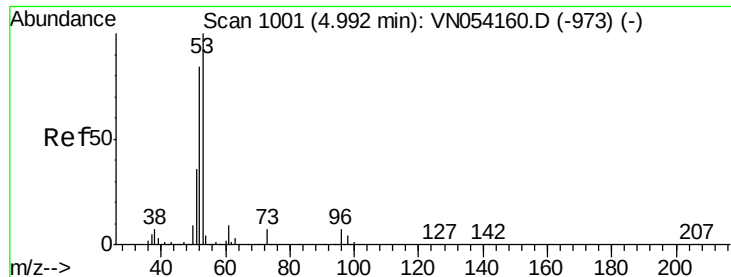
Ion Ratio Lower Upper

41 100

39 76.4 58.2 87.4

76 39.7 31.7 47.5





#15

Acrylonitrile

Concen: 24.513 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

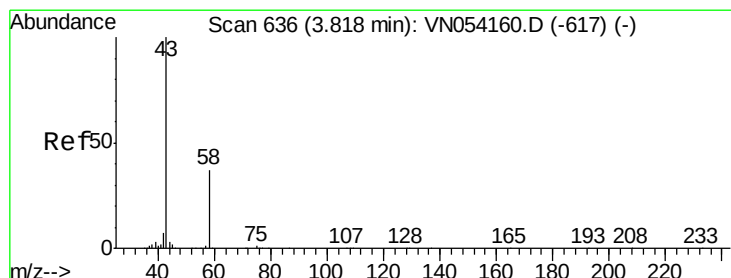
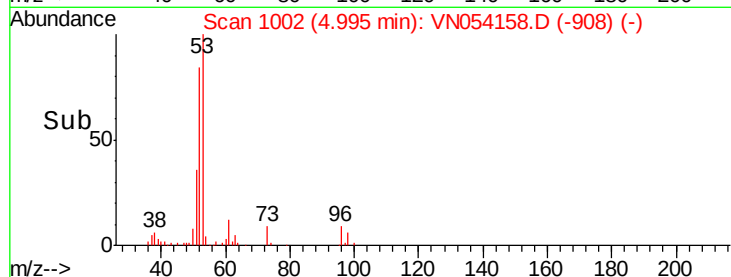
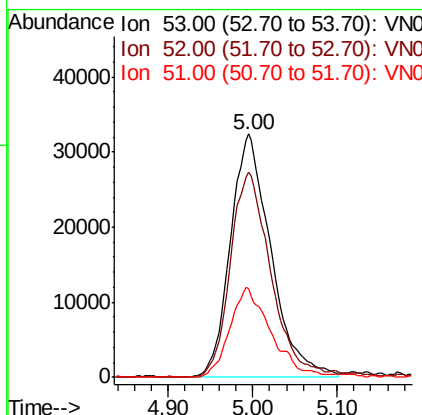
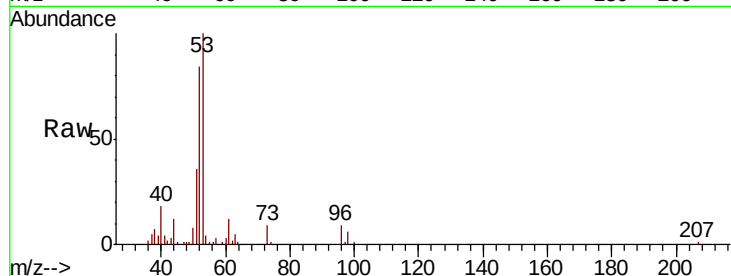
ClientSampleId :

VSTDIC005

Tgt Ion:	53	Resp:	108351
Ion Ratio	Lower	Upper	
53	100		
52	83.6	66.4	99.6
51	37.2	29.6	44.4

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



#16

Acetone

Concen: 24.295 ug/l

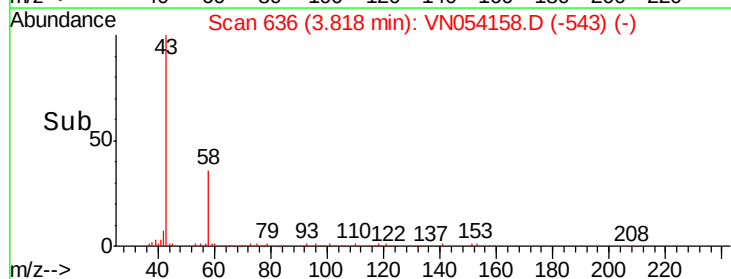
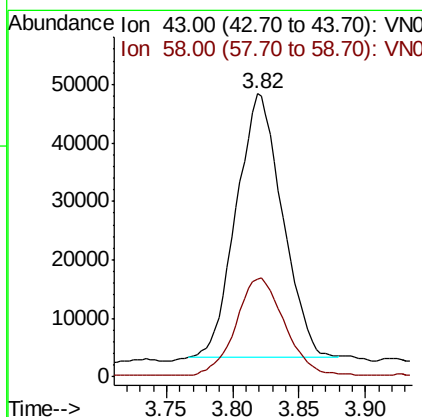
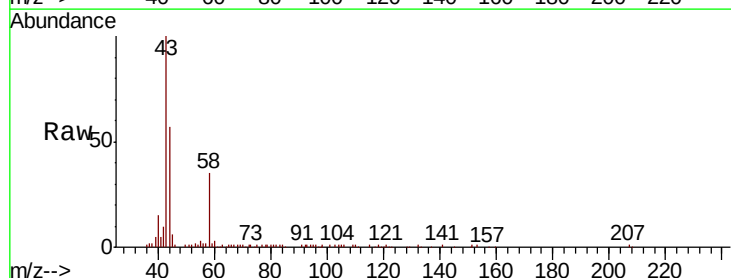
RT: 3.82 min Scan# 636

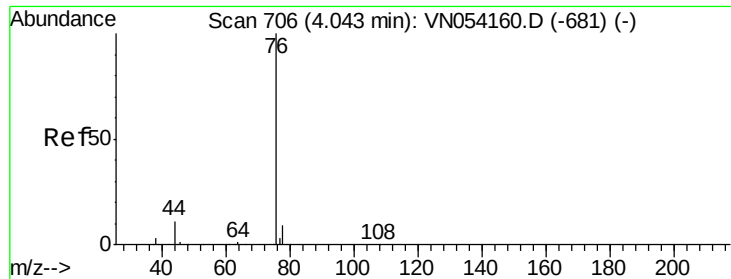
Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Tgt Ion:	43	Resp:	109187
Ion Ratio	Lower	Upper	
43	100		
58	36.6	29.9	44.9





#17

Carbon Disulfide

Concen: 4.658 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 179301

Ion Ratio Lower Upper

76 100

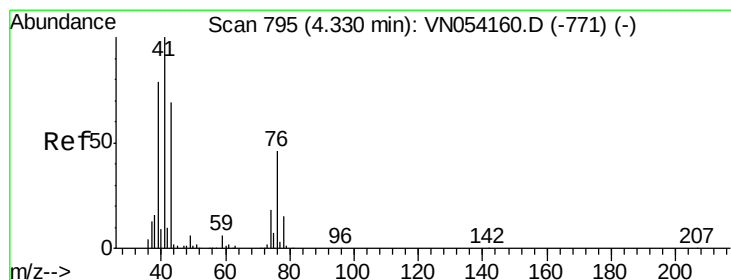
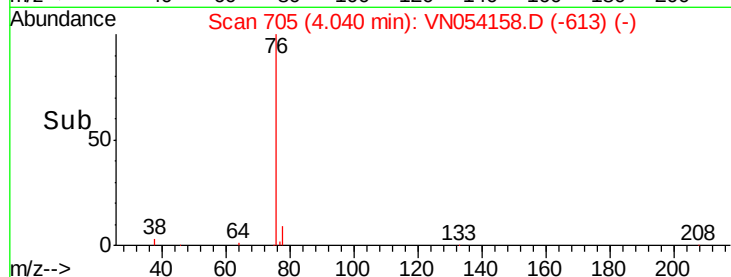
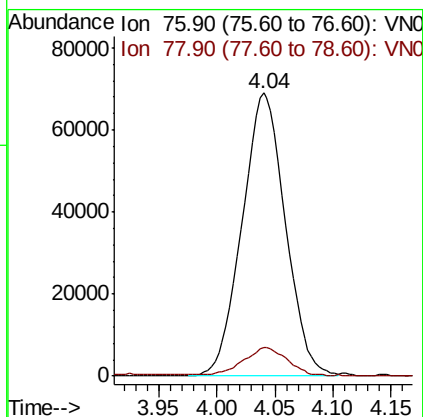
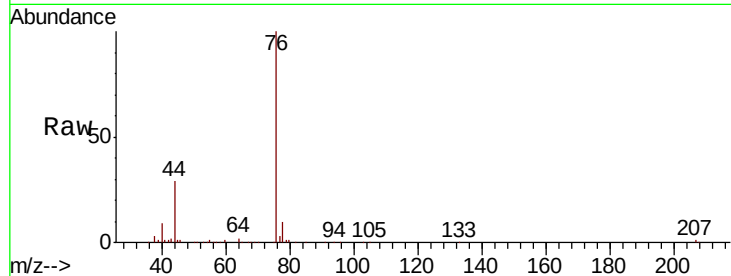
78 9.8 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

3/13/2019 11:49:04 AM



#18

Methyl Acetate

Concen: 4.719 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054158.D

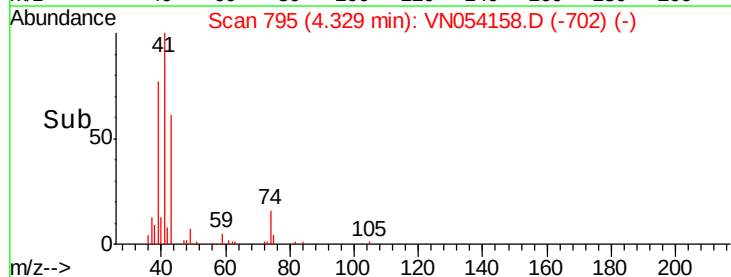
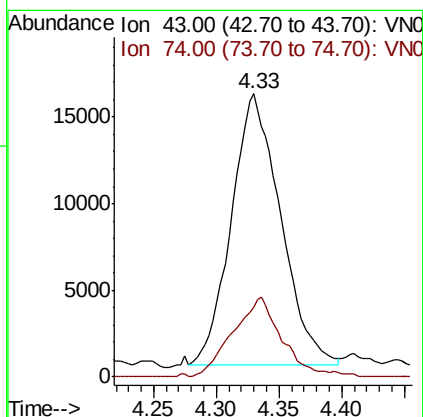
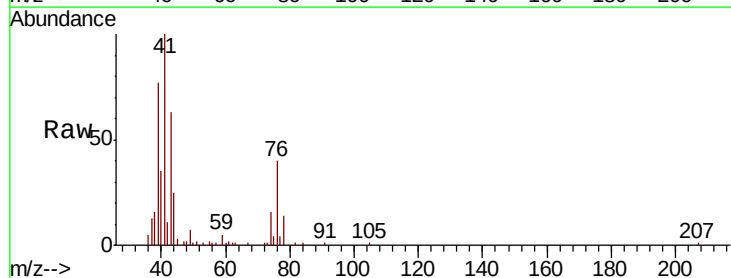
Acq: 12 Mar 2019 10:29

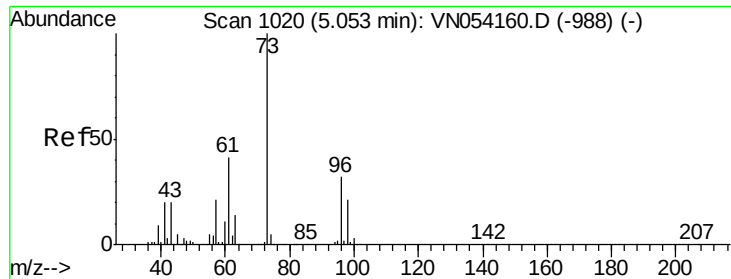
Tgt Ion: 43 Resp: 42912

Ion Ratio Lower Upper

43 100

74 29.2 20.8 31.2





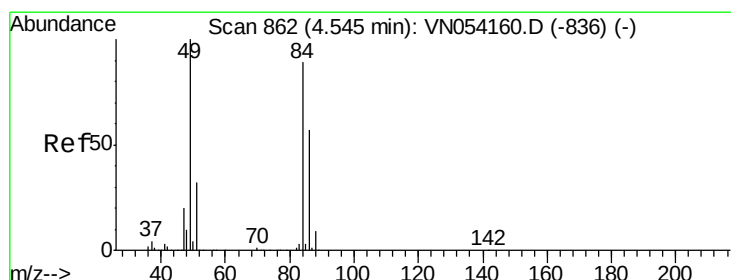
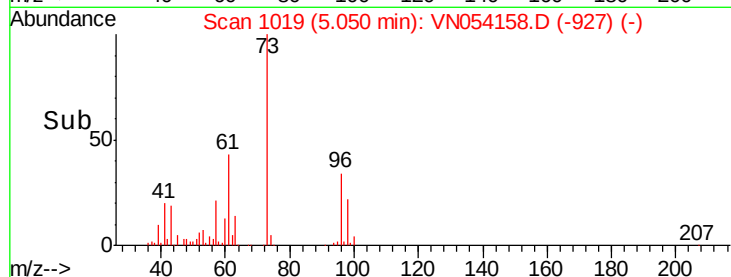
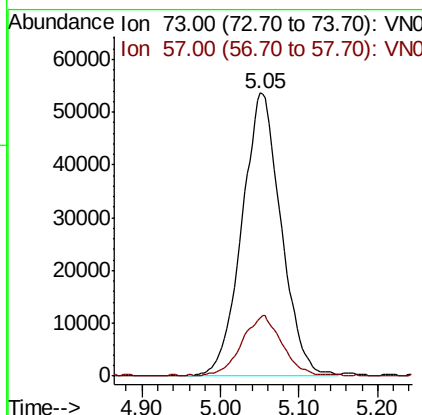
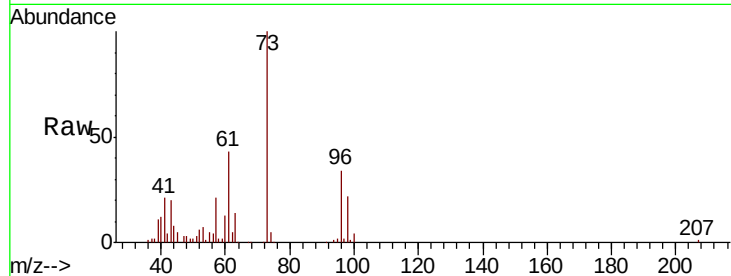
#19
Methyl tert-butyl Ether
Concen: 4.950 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 73 Resp: 188399
Ion Ratio Lower Upper
73 100
57 20.3 16.8 25.2

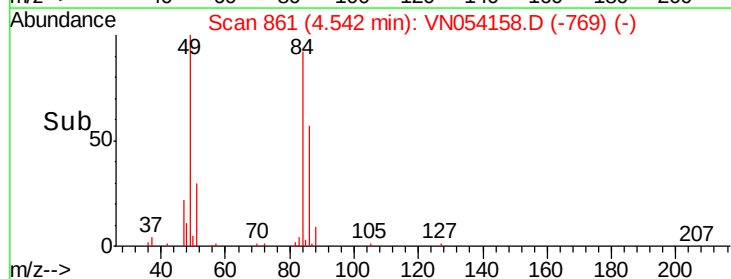
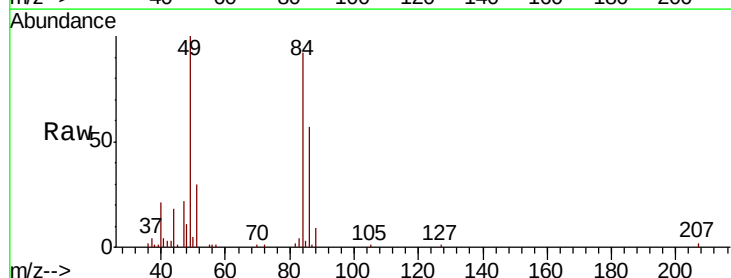
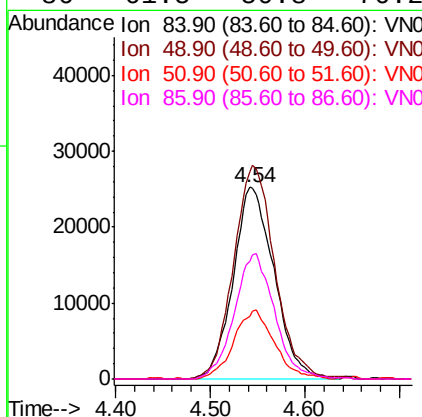
Manual Integrations
APPROVED

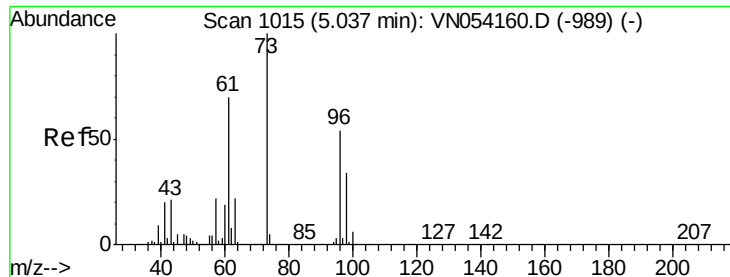
MMDadoda
3/13/2019 11:49:04 AM



#20
Methylene Chloride
Concen: 5.143 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion: 84 Resp: 75902
Ion Ratio Lower Upper
84 100
49 108.3 89.7 134.5
51 33.0 28.2 42.4
86 61.5 50.8 76.2





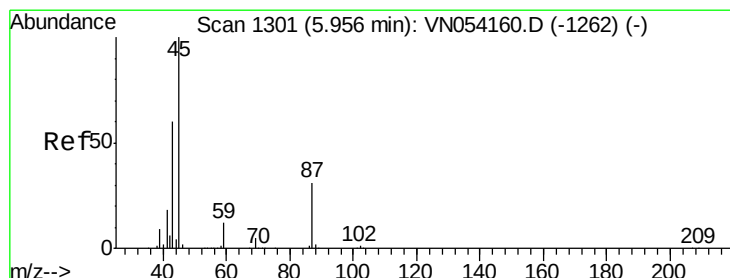
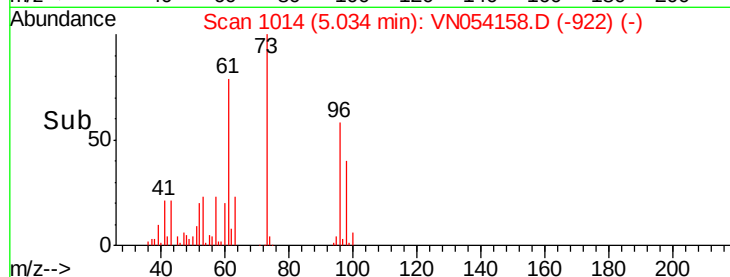
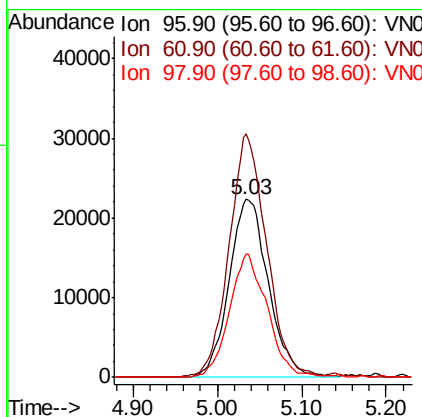
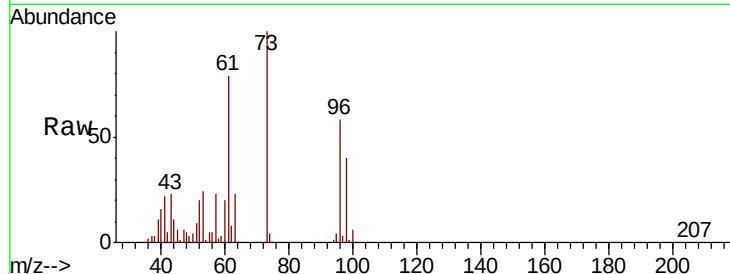
#21
trans-1,2-Dichloroethene
Concen: 4.930 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
96	100		
61	135.7	102.8	154.2
98	69.5	50.0	75.0

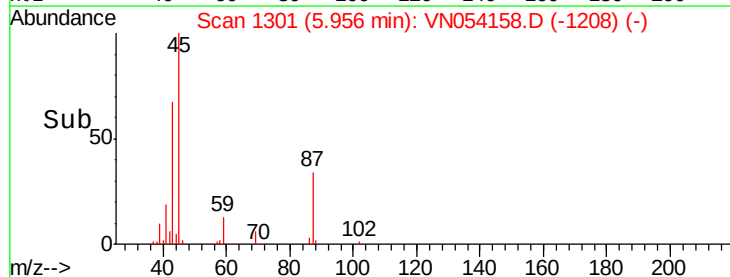
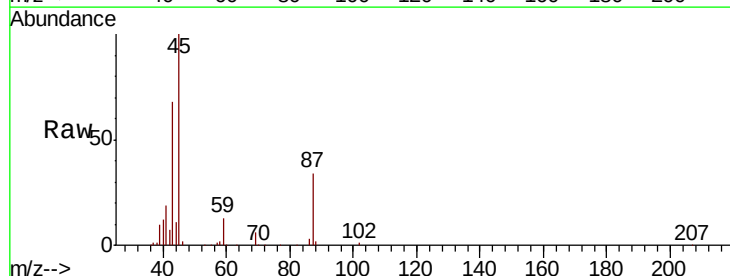
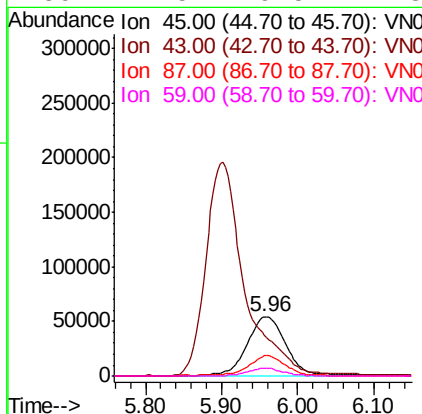
Manual Integrations
APPROVED

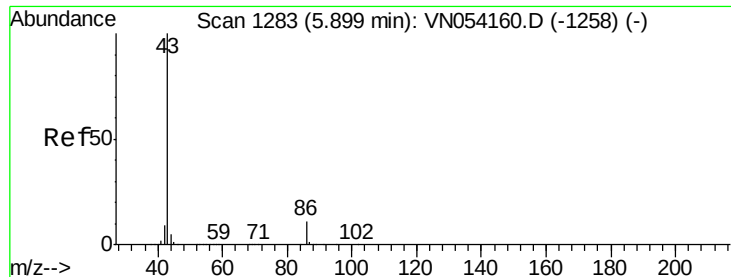
MMDadoda
3/13/2019 11:49:04 AM



#22
Diisopropyl ether
Concen: 4.802 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.5	48.2	72.2
87	33.2	24.9	37.3
59	12.5	9.5	14.3





#23

Vinyl Acetate

Concen: 23.770 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 689092

Ion Ratio Lower Upper

43 100

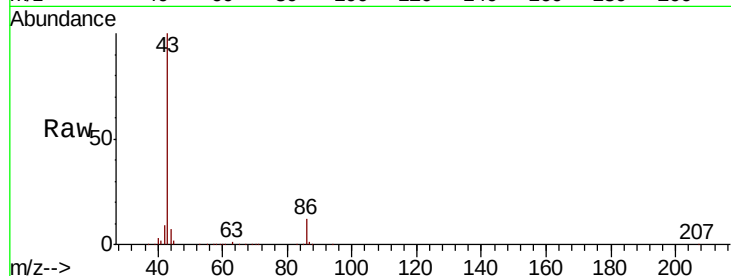
86 11.9 9.1 13.7

Manual Integrations

APPROVED

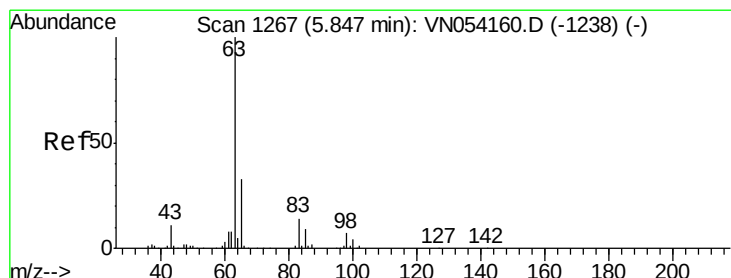
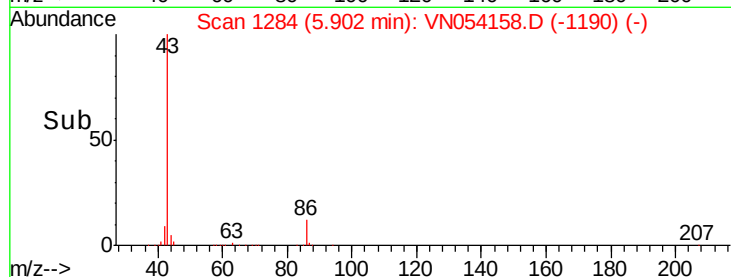
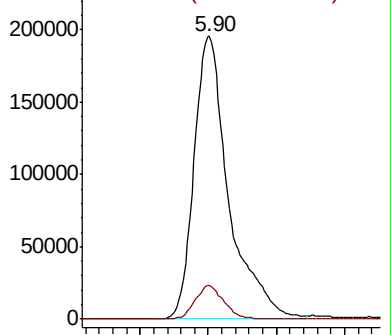
MMDadoda

3/13/2019 11:49:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 5.119 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

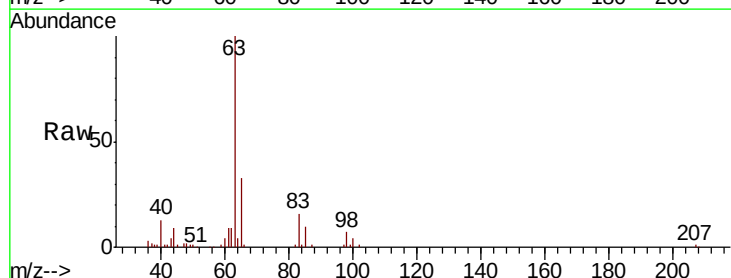
Tgt Ion: 63 Resp: 129246

Ion Ratio Lower Upper

63 100

98 7.4 3.5 10.5

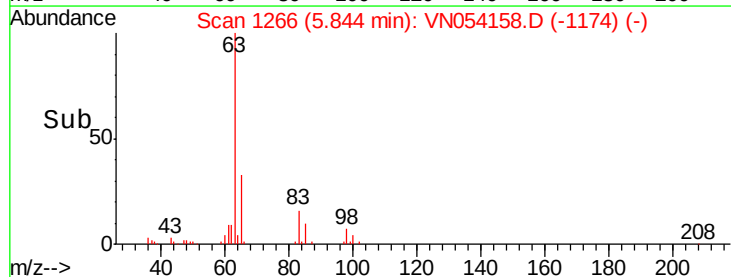
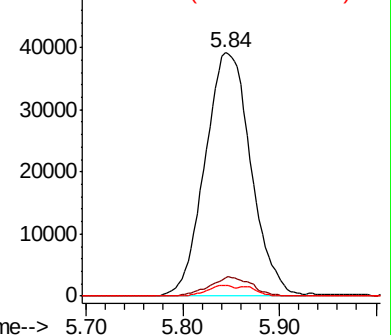
100 4.1 2.0 6.0

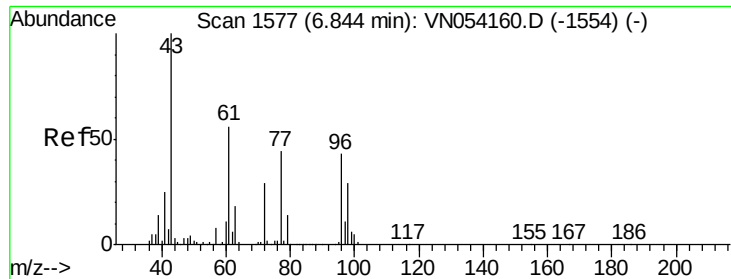


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





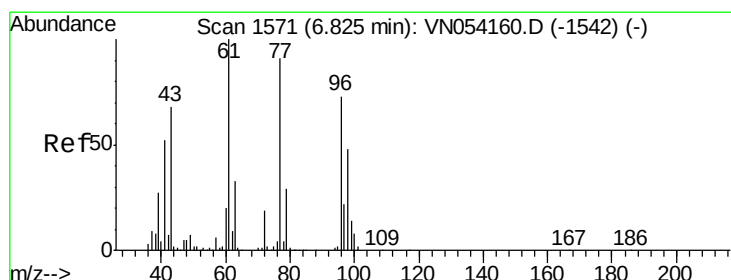
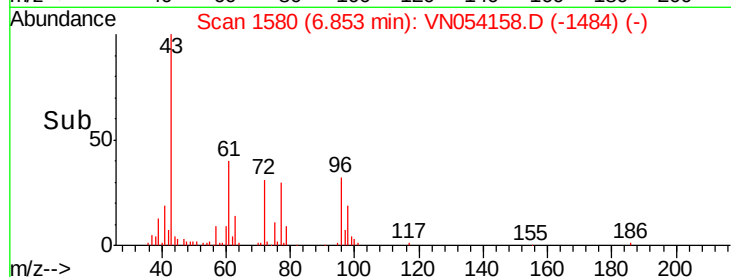
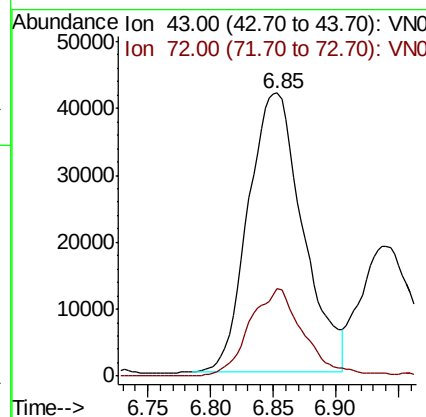
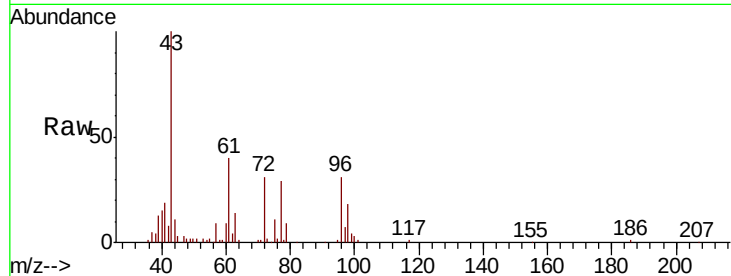
#25
 2-Butanone
 Concen: 24.086 ug/l
 RT: 6.85 min Scan# 1580
 Delta R.T. 0.01 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 43 Resp: 127050
 Ion Ratio Lower Upper
 43 100
 72 31.3 23.0 34.6

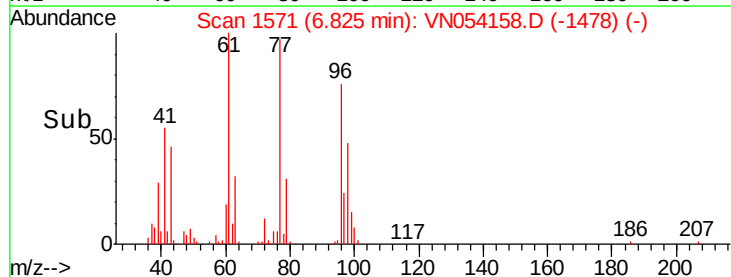
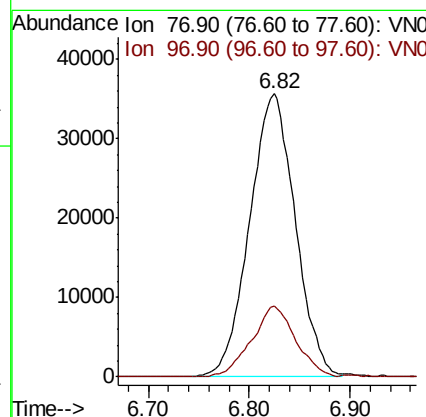
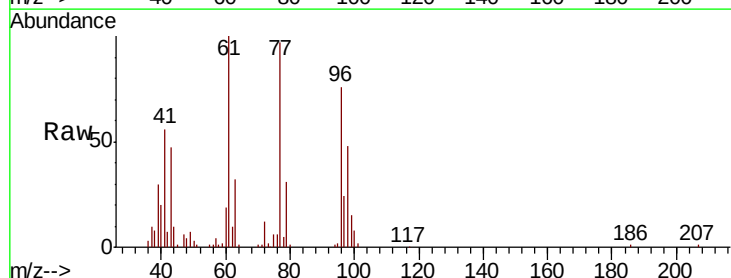
Manual Integrations
 APPROVED

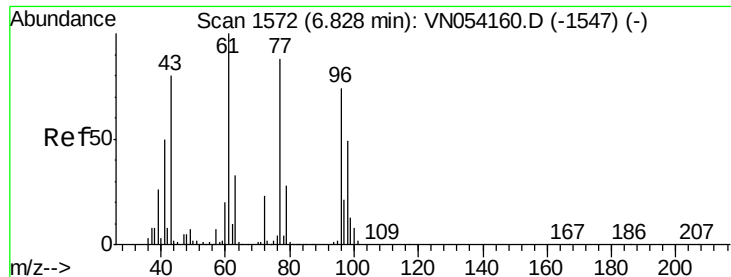
MMDadoda
 3/13/2019 11:49:04 AM



#26
 2,2-Dichloropropane
 Concen: 5.040 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Tgt Ion: 77 Resp: 111897
 Ion Ratio Lower Upper
 77 100
 97 24.1 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 4.990 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

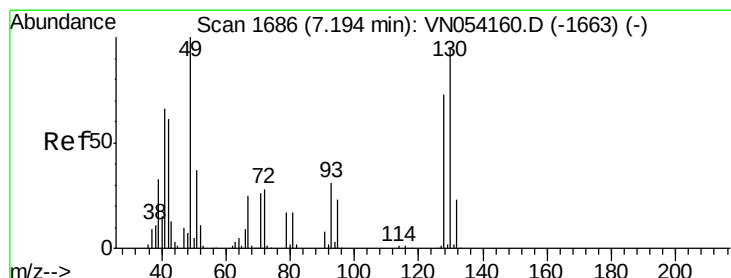
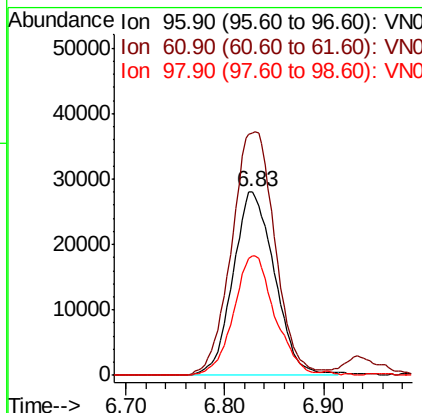
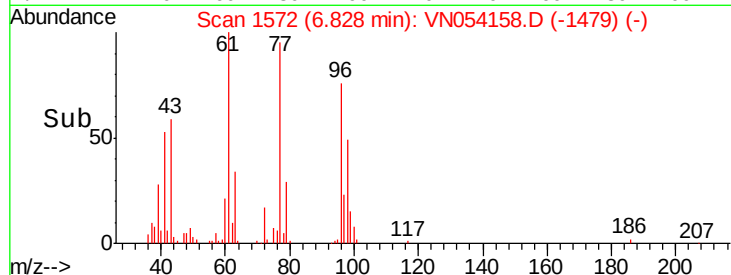
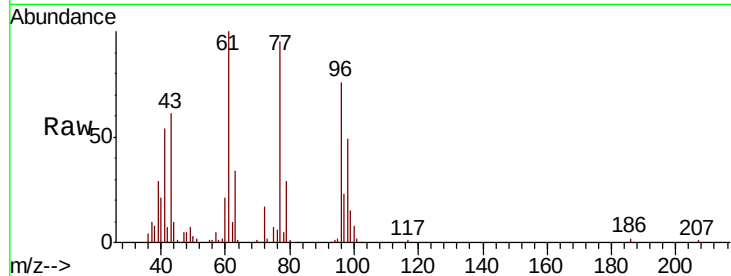
ClientSampleId :

VSTDIC005

Tgt Ion:	96	Resp:	81903
Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	273.0
98	64.3	0.0	130.6

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



#28

Bromochloromethane

Concen: 5.208 ug/l

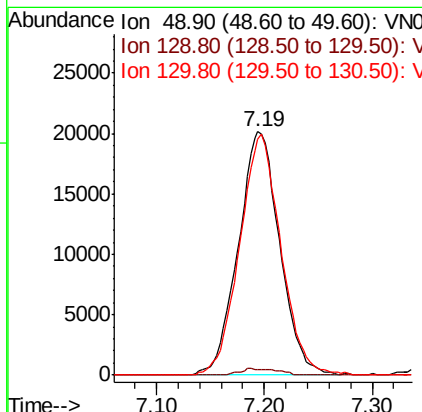
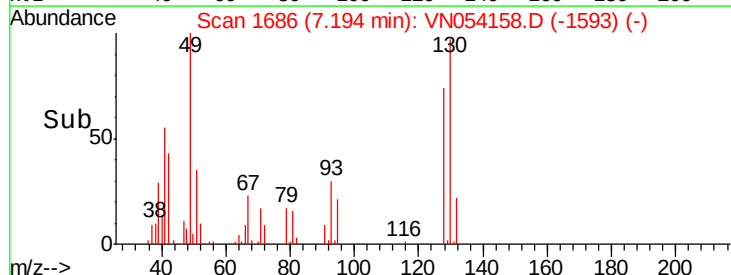
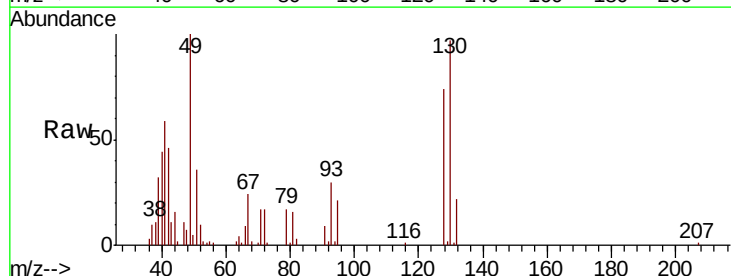
RT: 7.19 min Scan# 1686

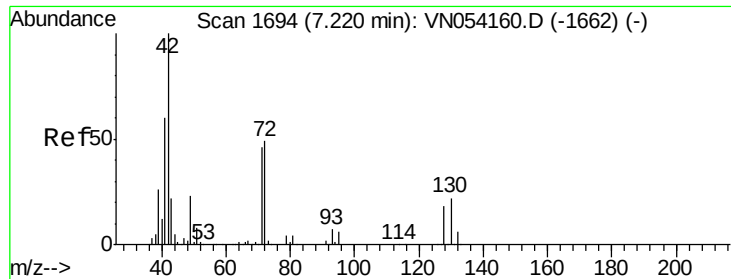
Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Tgt Ion:	49	Resp:	53752
Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.6
130	98.5	76.7	115.1





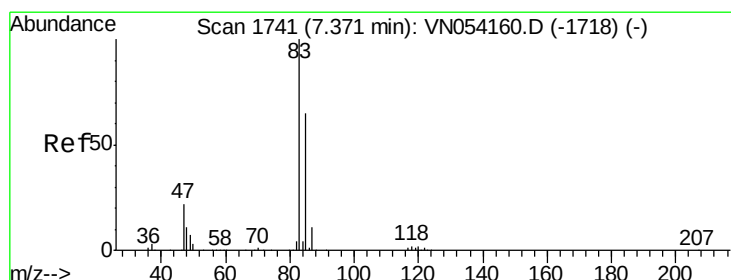
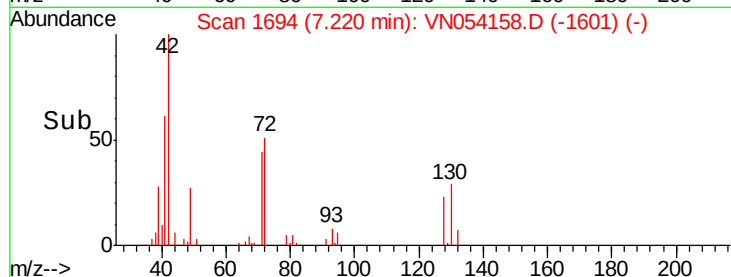
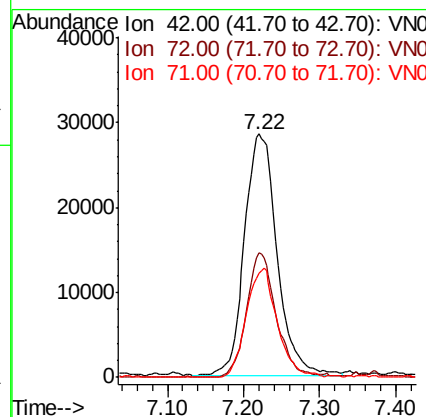
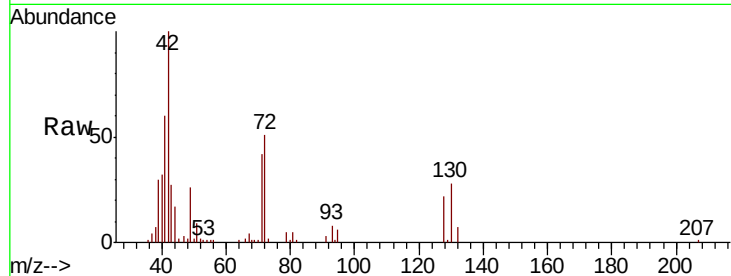
#29
Tetrahydrofuran
Concen: 25.073 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
42	100		
72	46.5	37.8	56.6
71	42.3	36.2	54.2

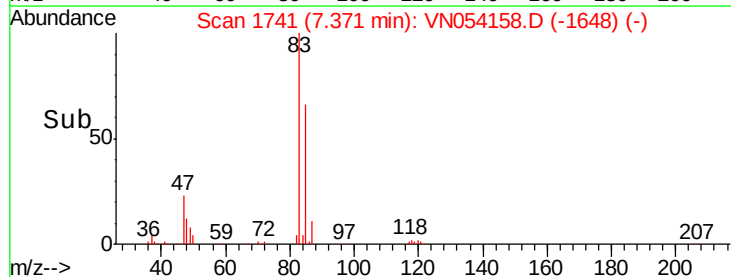
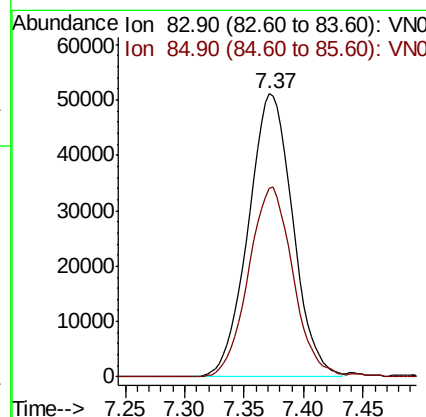
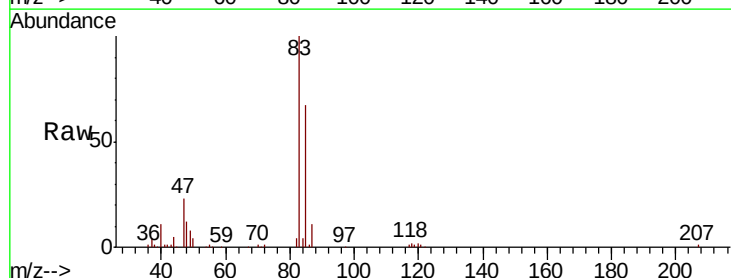
Manual Integrations
APPROVED

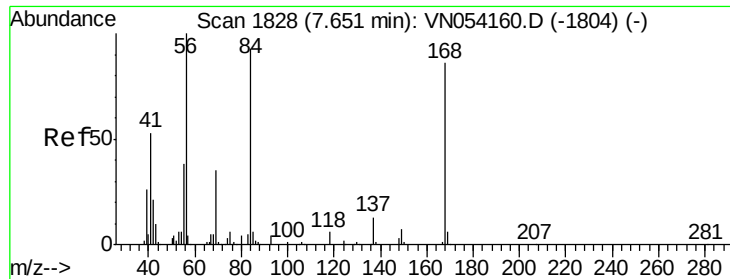
MMDadoda
3/13/2019 11:49:04 AM



#30
Chloroform
Concen: 5.025 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	52.2	78.4





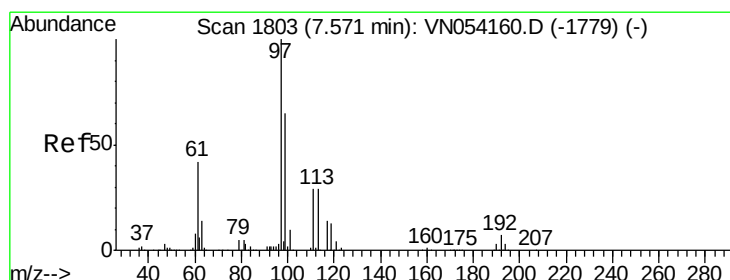
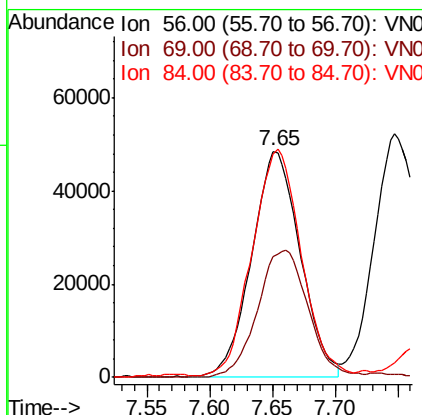
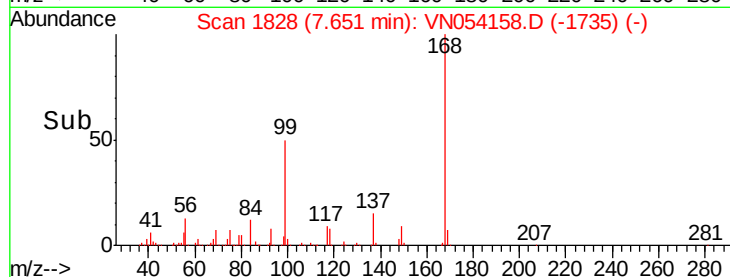
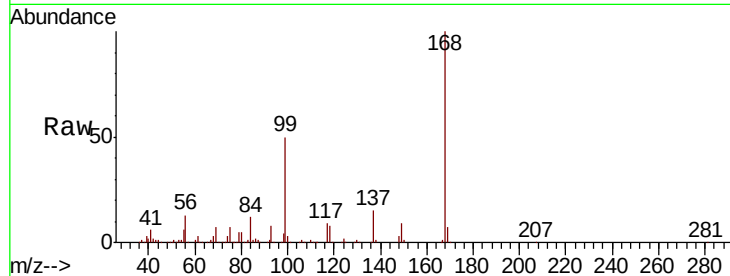
#31
Cyclohexane
Concen: 4.428 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
56	100		
69	52.8	27.8	41.6#
84	98.0	74.6	111.8

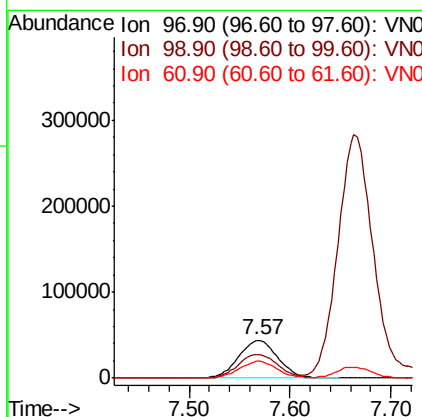
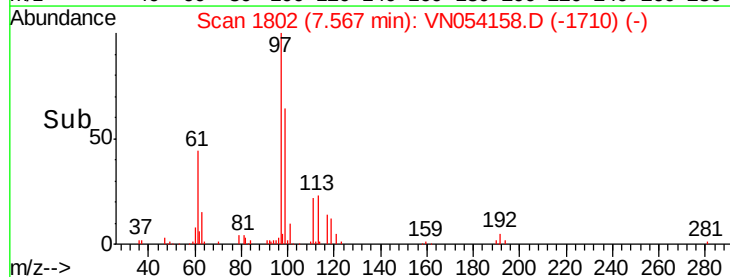
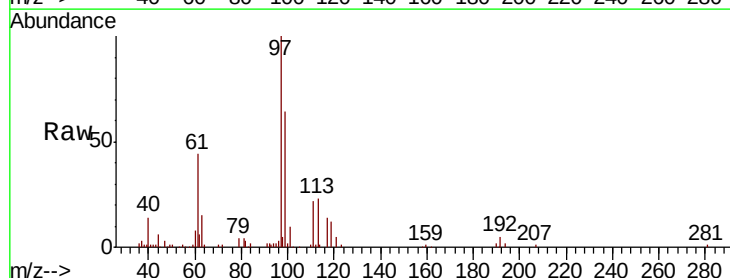
Manual Integrations
APPROVED

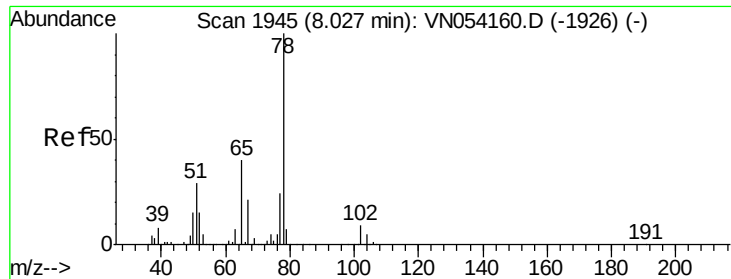
MMDadoda
3/13/2019 11:49:04 AM



#32
1,1,1-Trichloroethane
Concen: 4.987 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.5	77.3
61	42.5	33.6	50.4





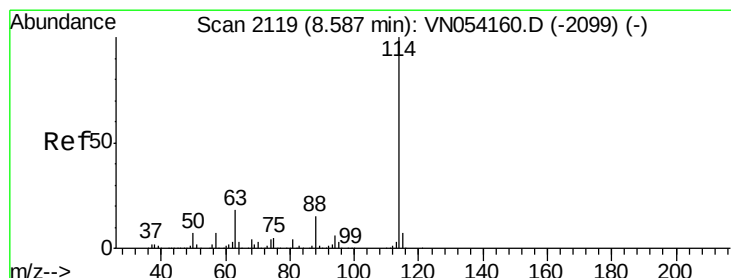
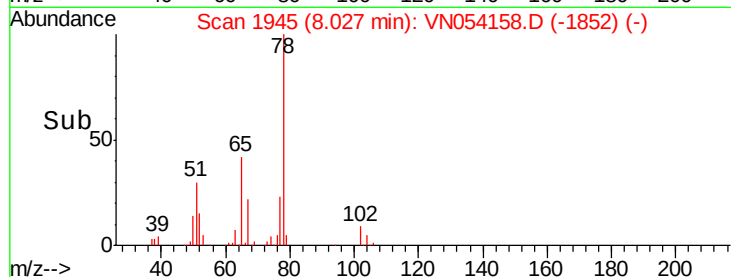
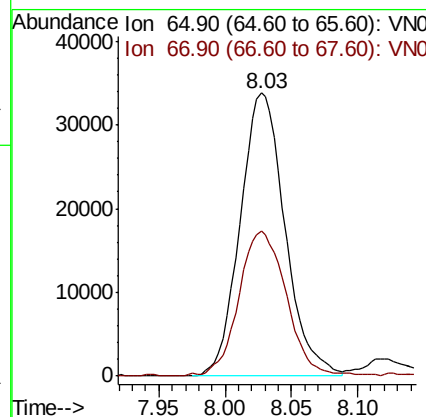
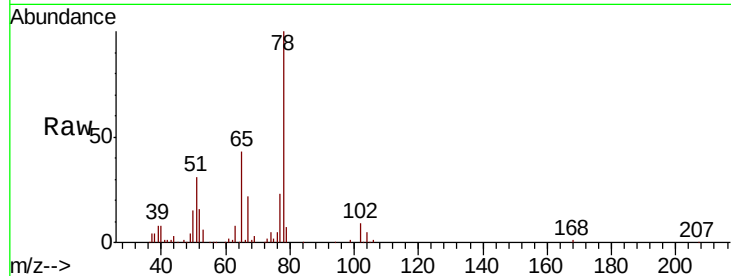
#33
 1,2-Dichloroethane-d4
 Concen: 5.060 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 65 Resp: 79421
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 104.6

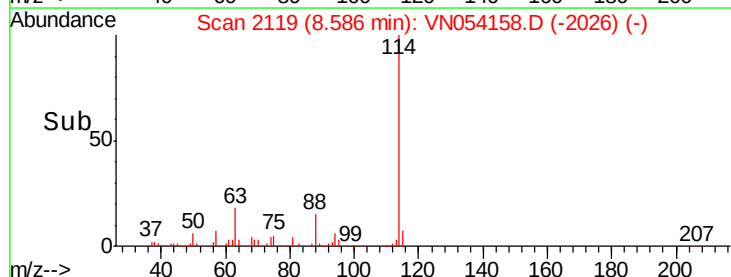
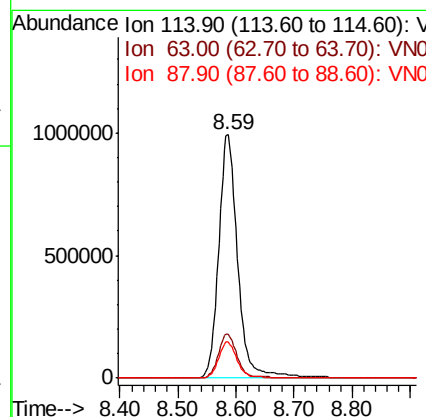
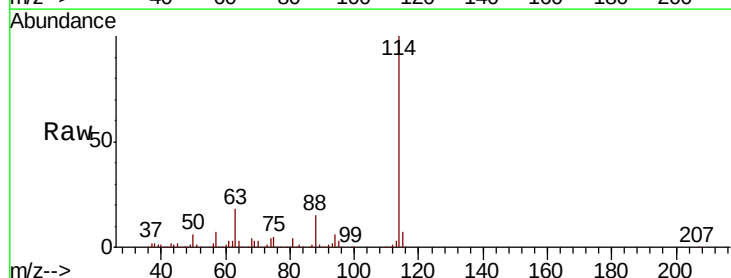
Manual Integrations
 APPROVED

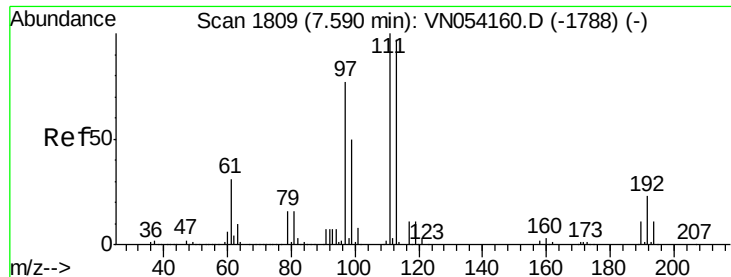
MMDadoda
 3/13/2019 11:49:04 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Tgt Ion: 114 Resp: 2264646
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.2
 88 14.8 0.0 30.2





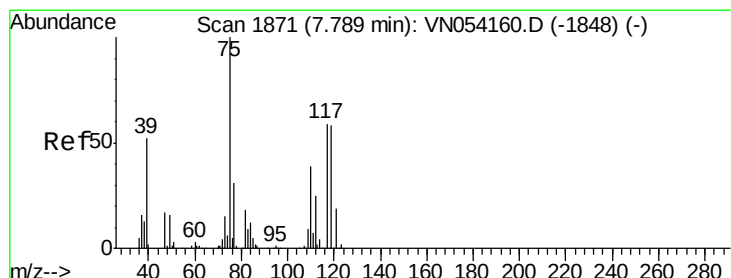
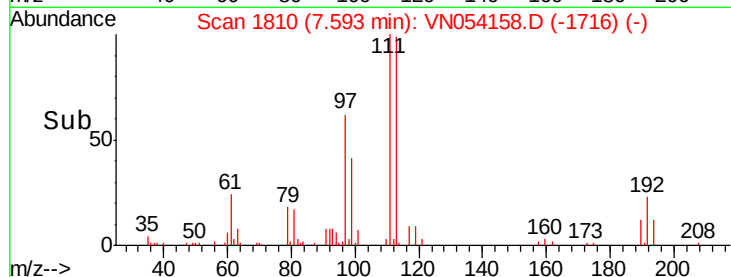
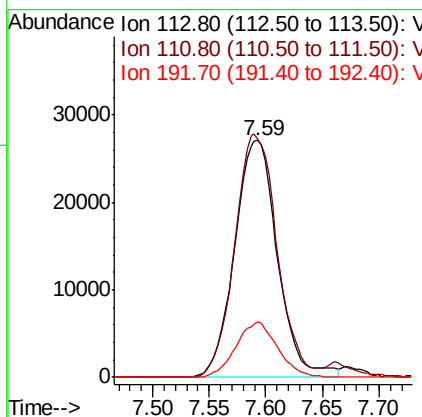
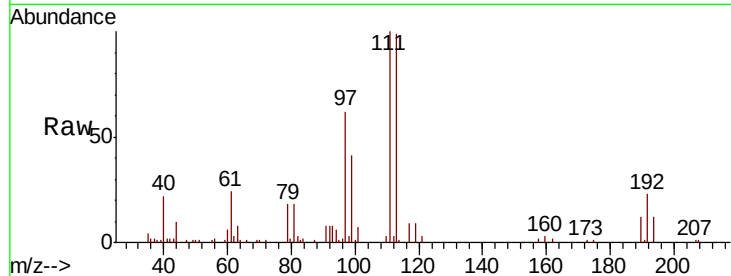
#35
 Dibromofluoromethane
 Concen: 4.883 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.2	123.4
192	22.7	19.2	28.8

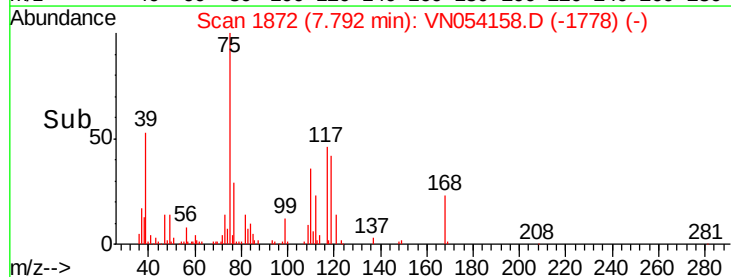
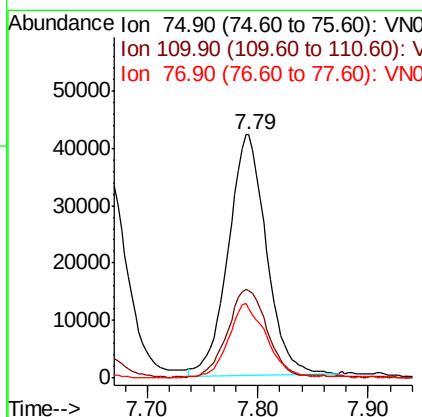
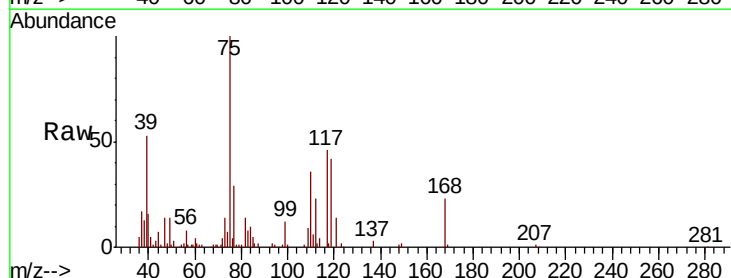
Manual Integrations
 APPROVED

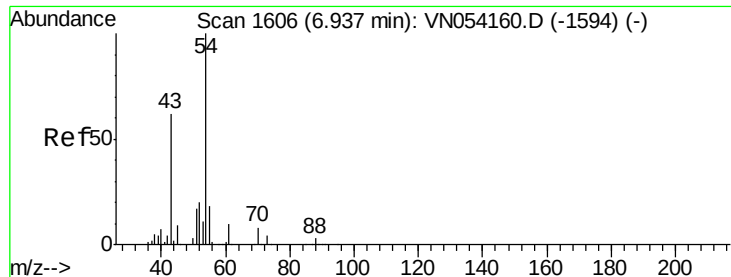
MMDadoda
 3/13/2019 11:49:04 AM



#36
 1,1-Dichloropropene
 Concen: 4.810 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.4	19.1	57.5
77	31.3	25.0	37.4





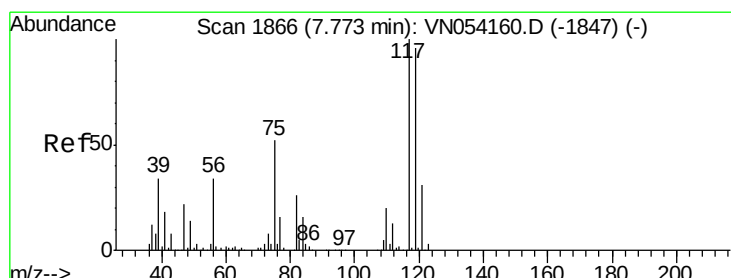
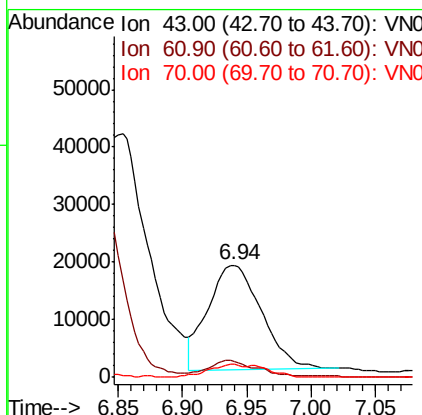
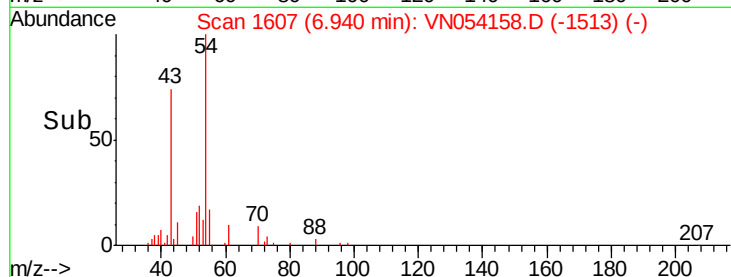
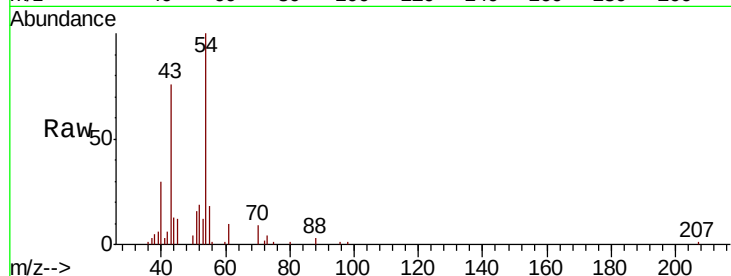
#37
Ethyl Acetate
 Concen: 4.307 ug/l
 RT: 6.94 min Scan# 1607
 Delta R.T. 0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
43	100		
61	12.7	11.8	17.6
70	7.8	8.4	12.6

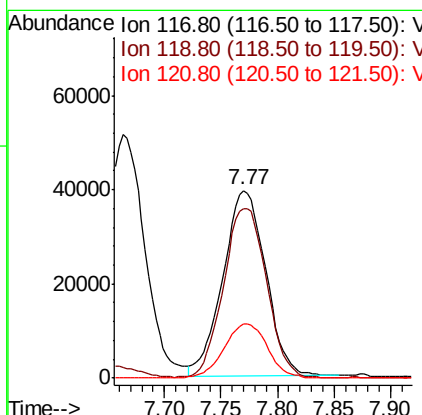
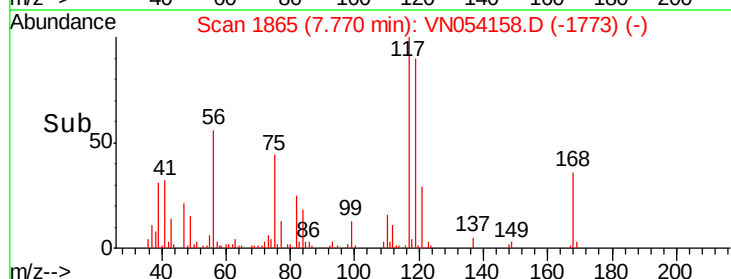
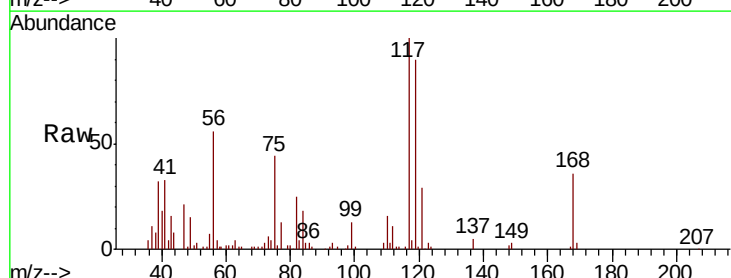
Manual Integrations
APPROVED

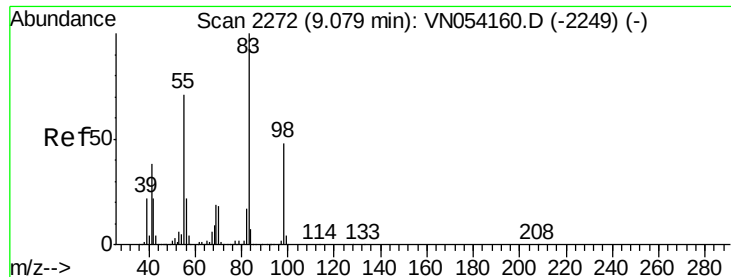
MMDadoda
 3/13/2019 11:49:04 AM



#38
Carbon Tetrachloride
 Concen: 4.760 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.5	76.3	114.5
121	29.2	24.6	36.8





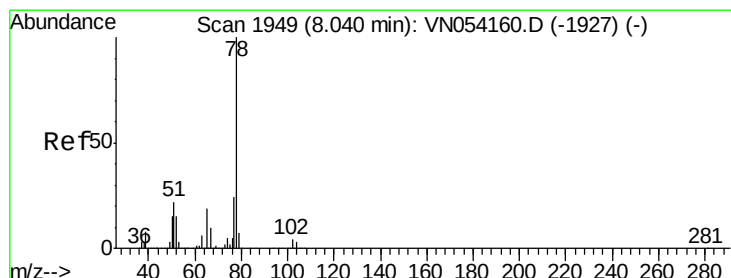
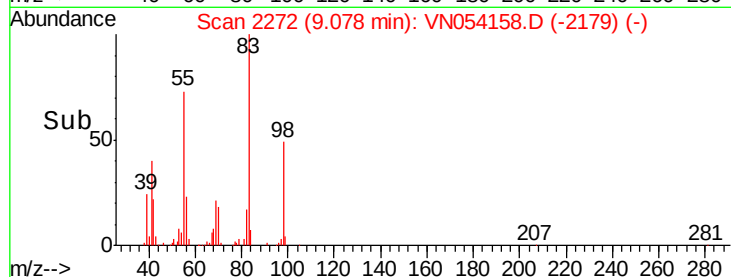
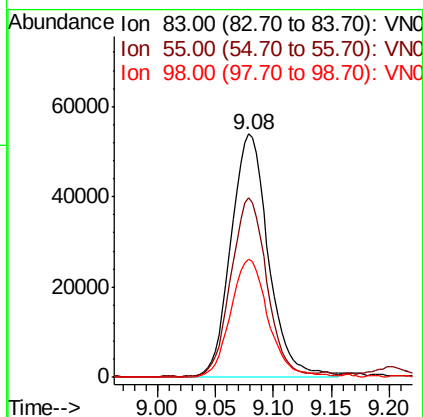
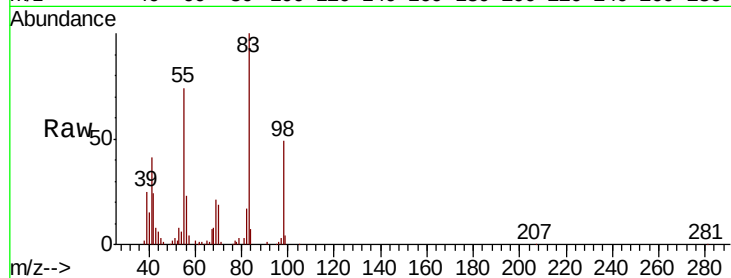
#39
Methylcyclohexane
Concen: 4.723 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
83	100		
55	73.3	56.6	84.8
98	48.7	38.4	57.6

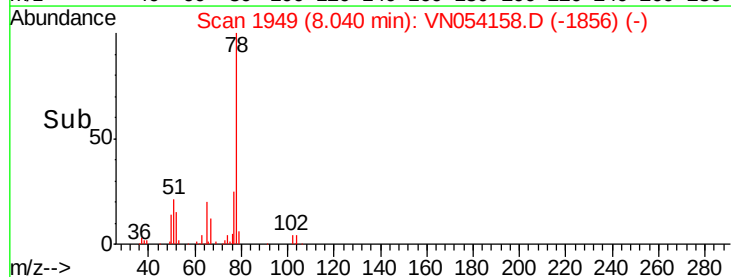
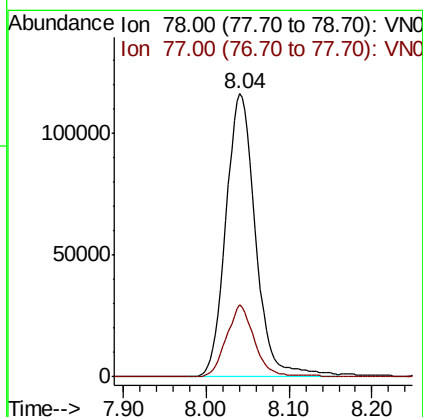
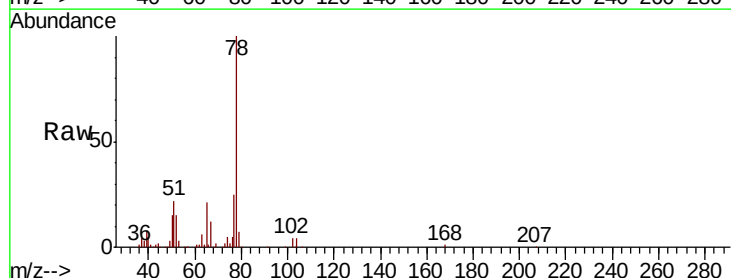
Manual Integrations
APPROVED

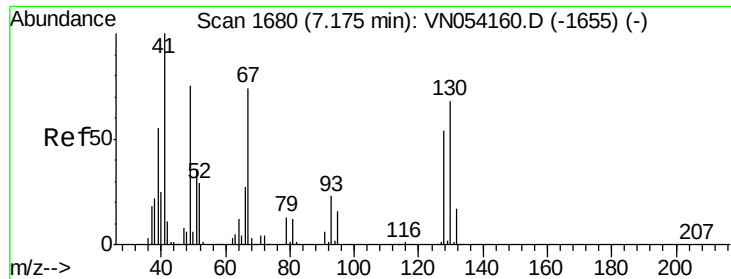
MMDadoda
3/13/2019 11:49:04 AM



#40
Benzene
Concen: 4.862 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.3	19.1	28.7





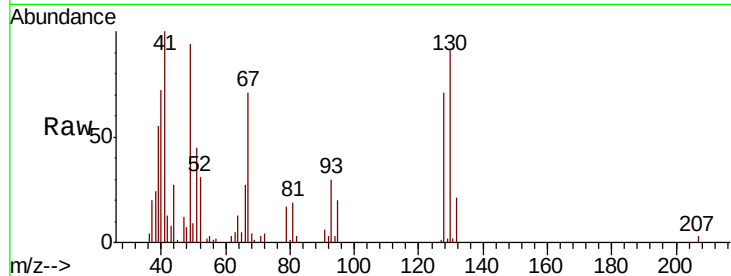
#41
Methacrylonitrile
Concen: 4.854 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
41	100		
39	57.6	46.8	70.2
67	81.8	67.0	100.4
52	35.5	26.5	39.7

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



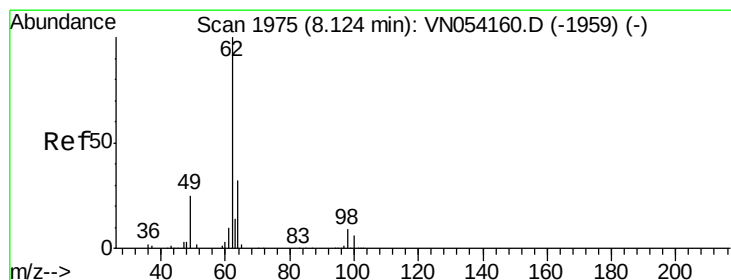
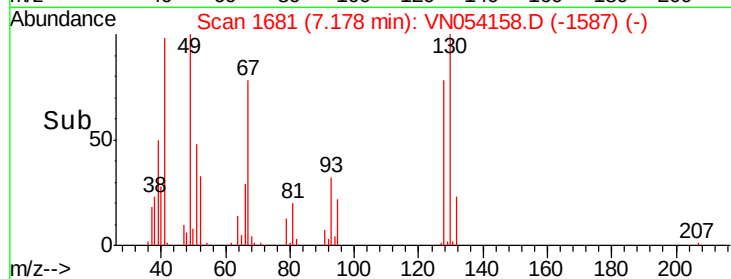
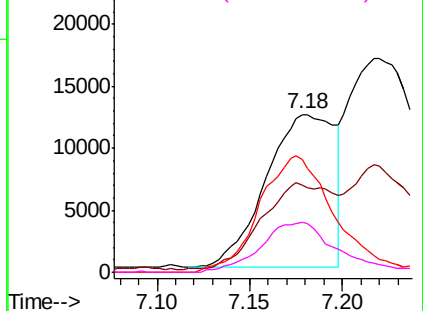
Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

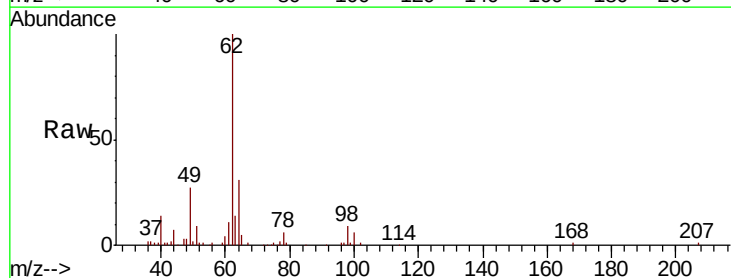
Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#42
1,2-Dichloroethane
Concen: 5.020 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

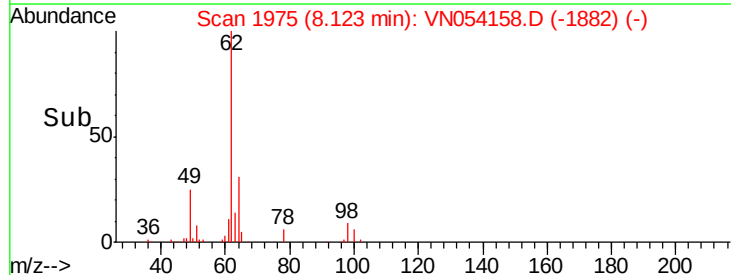
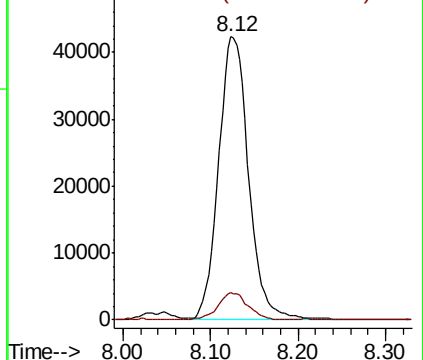
Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	18.4

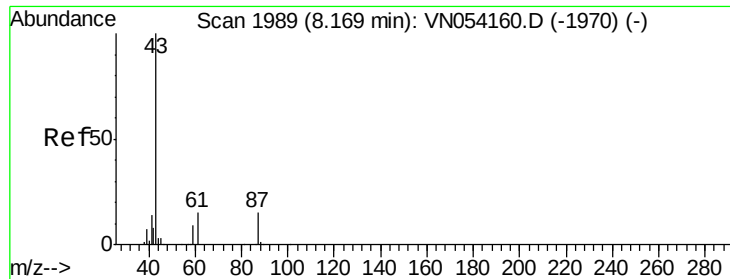


Abundance

Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 4.647 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

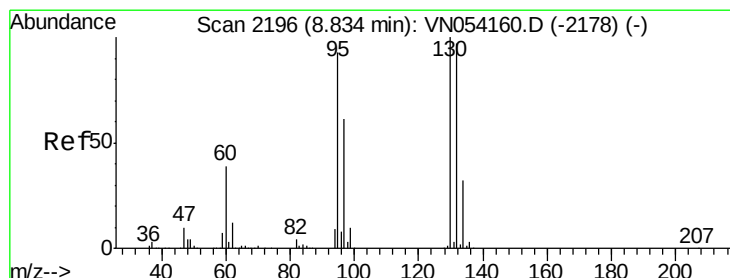
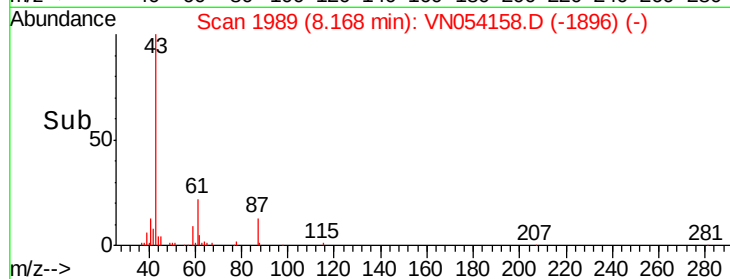
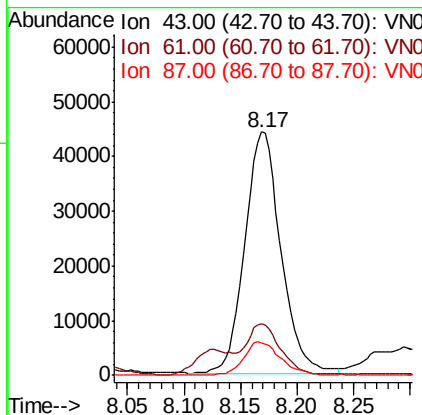
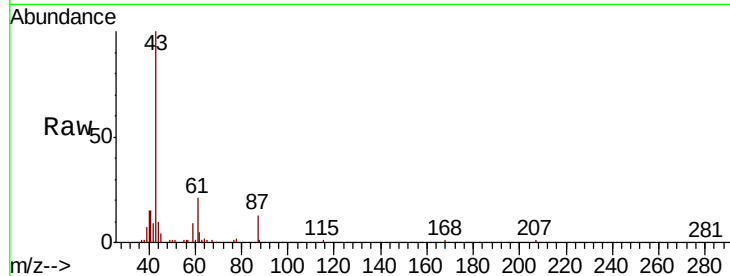
ClientSampleId :

VSTDIC005

Tgt Ion:	43	Resp:	97736
Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.8	23.8
87	14.3	12.0	18.0

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



#44

Trichloroethene

Concen: 4.936 ug/l

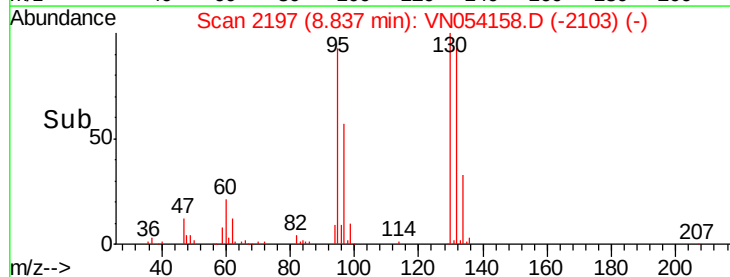
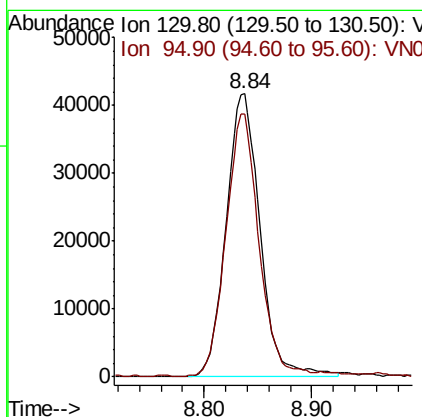
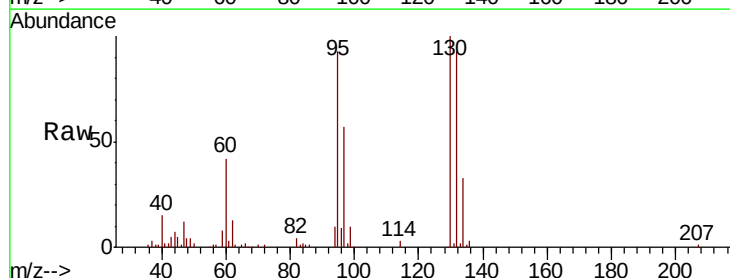
RT: 8.84 min Scan# 2197

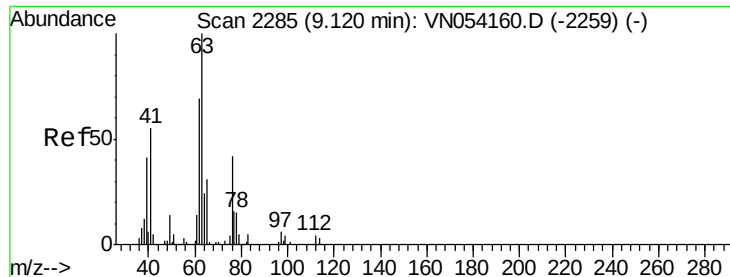
Delta R.T. 0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Tgt Ion:	130	Resp:	91512
Ion	Ratio	Lower	Upper
130	100		
95	92.5	0.0	185.2





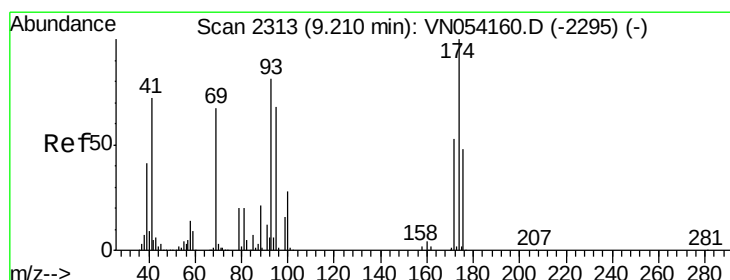
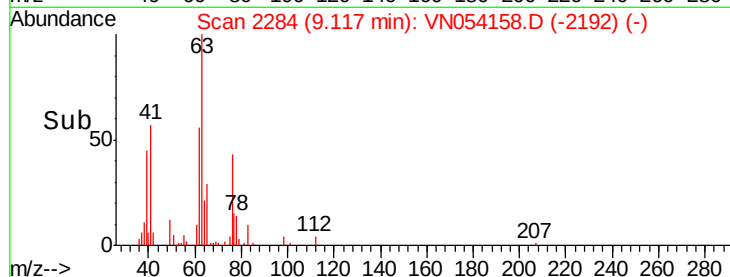
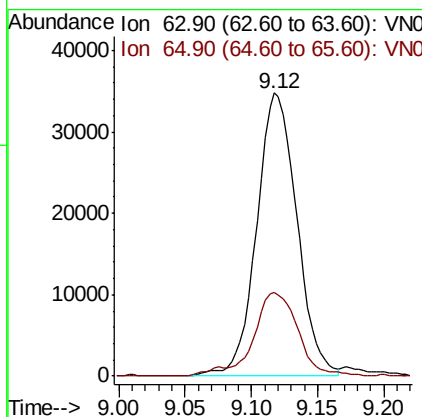
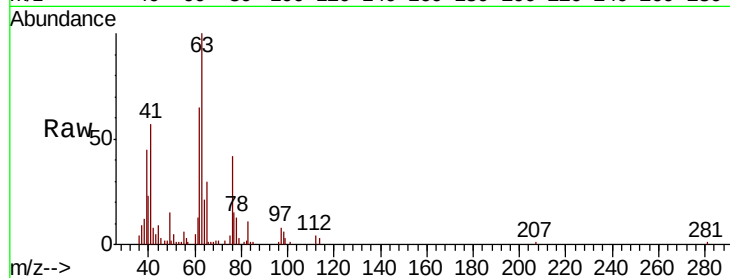
#45
 1,2-Dichloropropane
 Concen: 4.979 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 63 Resp: 73788
 Ion Ratio Lower Upper
 63 100
 65 29.6 25.0 37.6

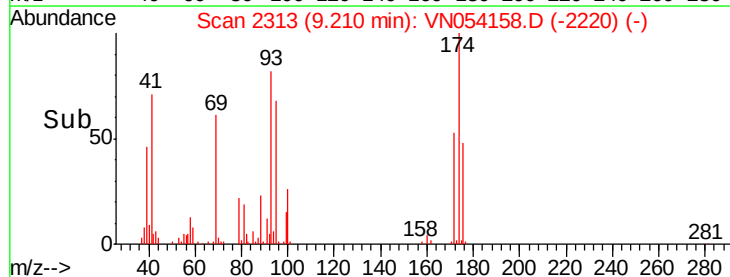
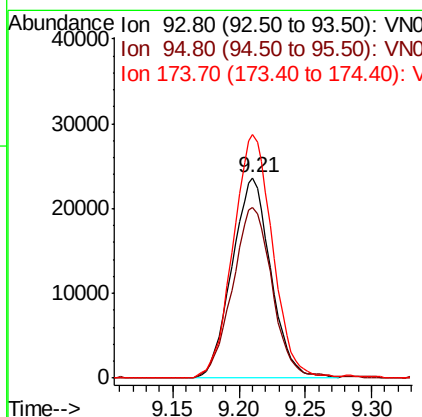
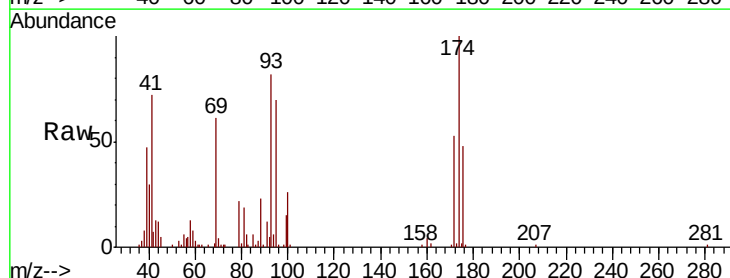
Manual Integrations
 APPROVED

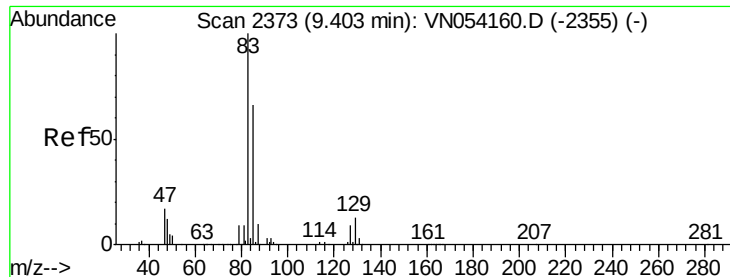
MMDadoda
 3/13/2019 11:49:04 AM



#46
 Dibromomethane
 Concen: 4.801 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Tgt Ion: 93 Resp: 48067
 Ion Ratio Lower Upper
 93 100
 95 87.2 66.7 100.1
 174 123.4 98.5 147.7





#47

Bromodichloromethane

Concen: 4.655 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

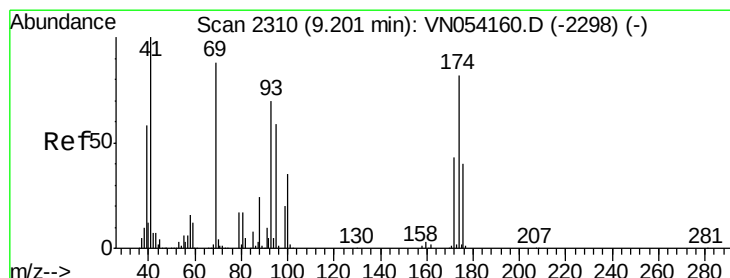
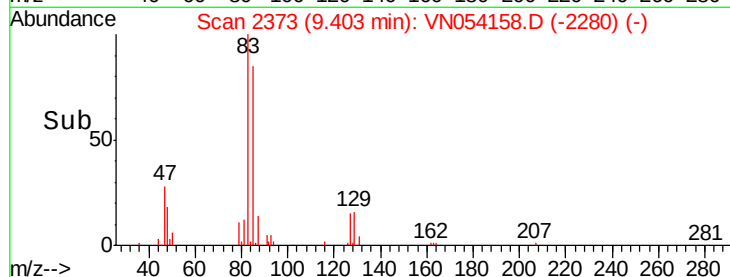
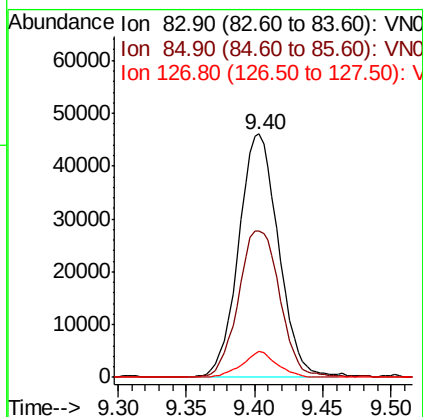
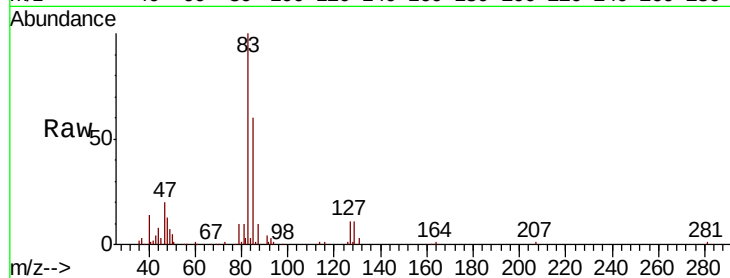
ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	93435
Ion Ratio	Lower	Upper	
83	100		
85	59.9	52.8	79.2
127	10.6	7.4	11.2

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



#48

Methyl methacrylate

Concen: 4.379 ug/l

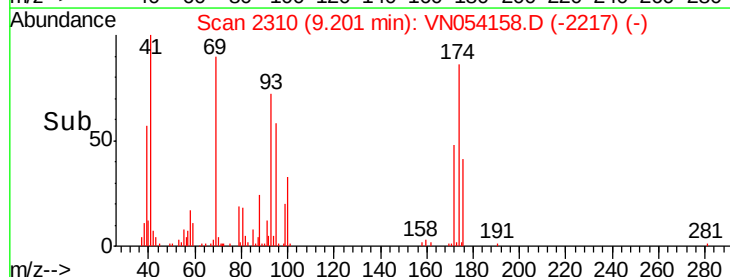
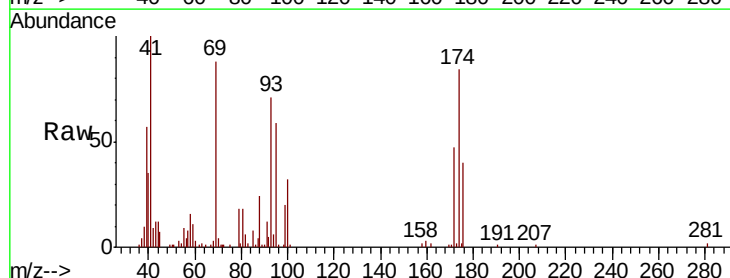
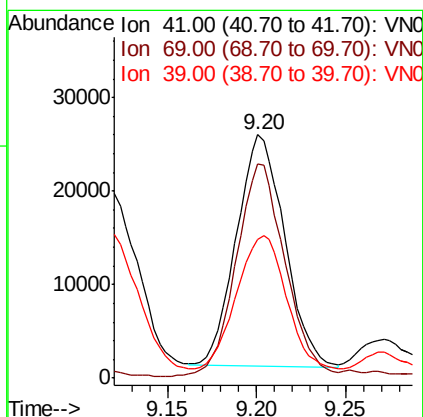
RT: 9.20 min Scan# 2310

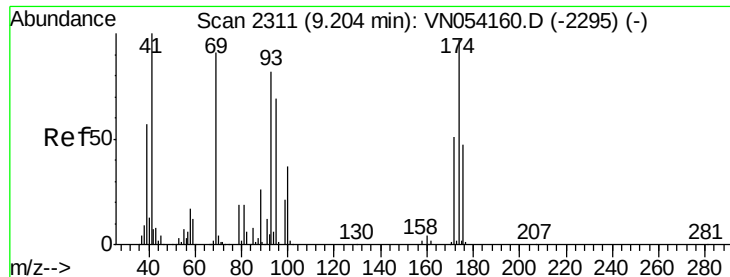
Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Tgt Ion:	41	Resp:	46743
Ion Ratio	Lower	Upper	
41	100		
69	93.4	72.6	108.8
39	66.1	47.5	71.3





#49

1,4-Dioxane

Concen: 95.306 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

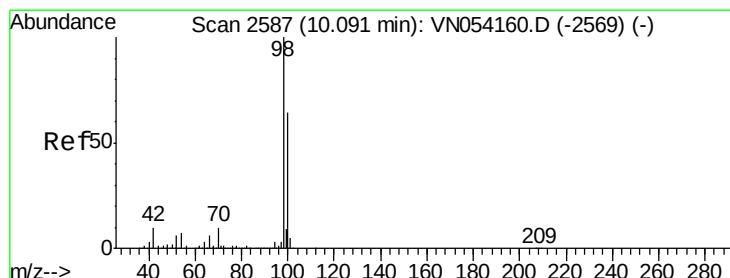
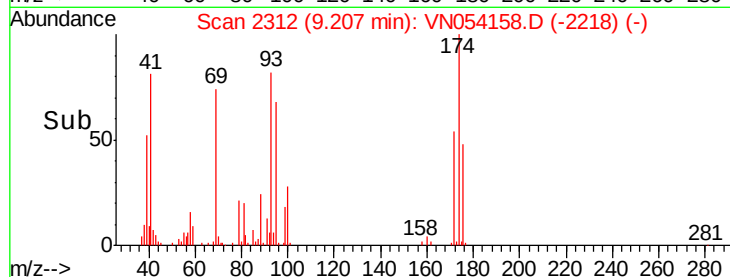
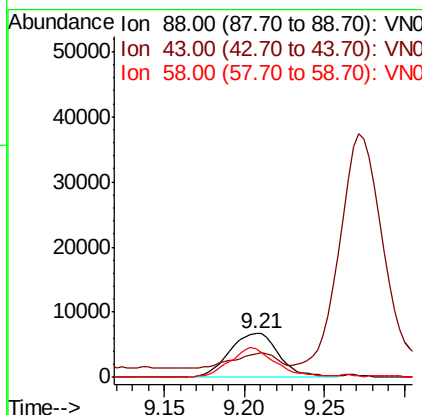
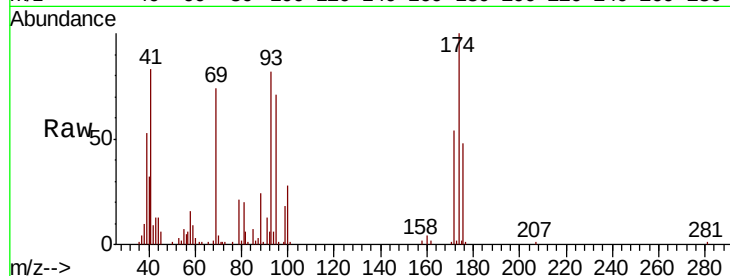
ClientSampleId :

VSTDIC005

Tgt Ion:	88	Resp:	14390
Ion	Ratio	Lower	Upper
88	100		
43	30.2	24.1	36.1
58	62.4	50.8	76.2

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



#50

Toluene-d8

Concen: 4.825 ug/l

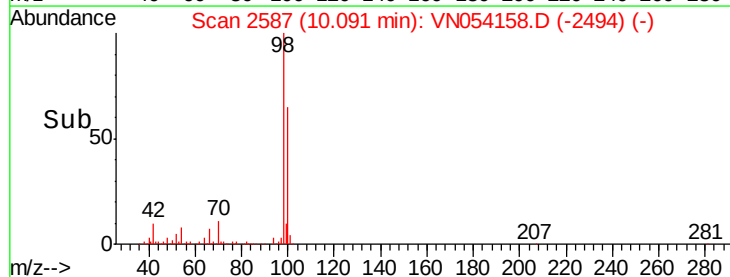
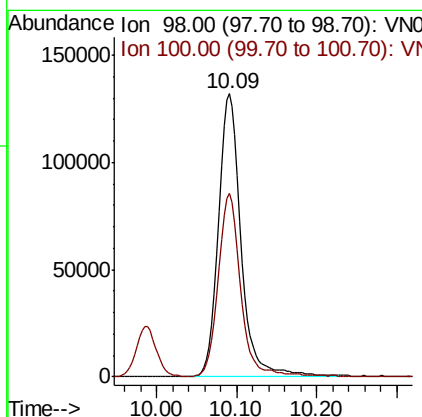
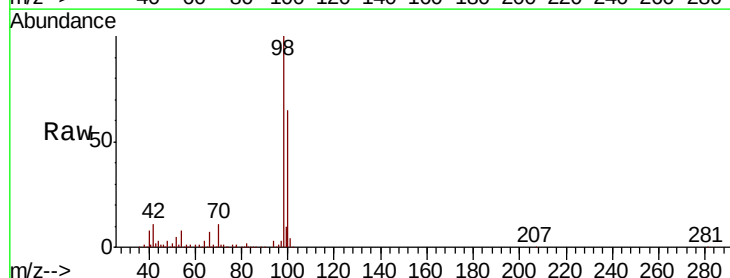
RT: 10.09 min Scan# 2587

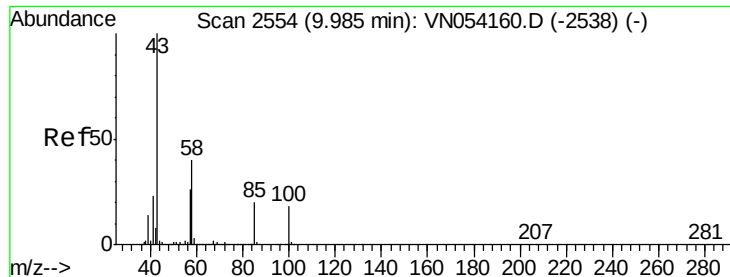
Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Tgt Ion:	98	Resp:	260274
Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.2	76.8





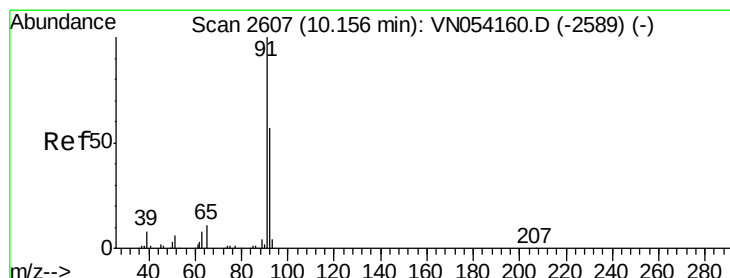
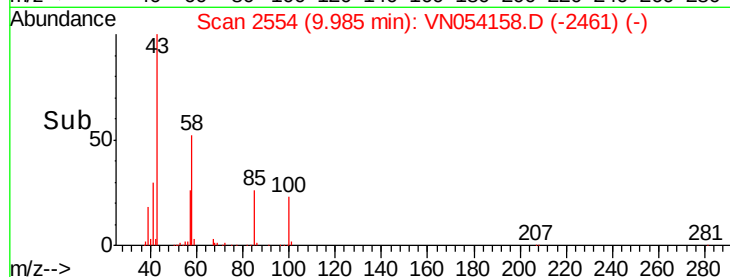
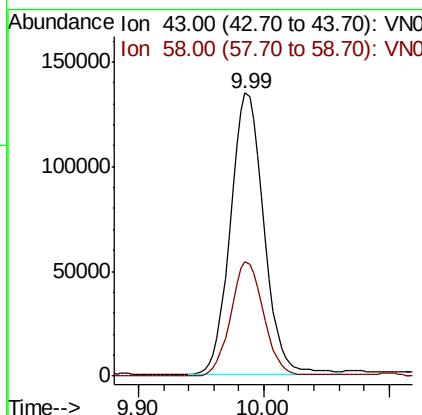
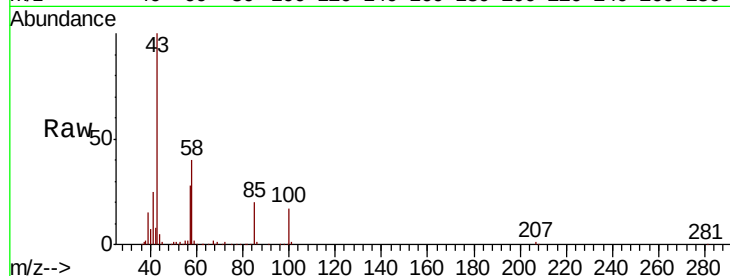
#51
4-Methyl-2-Pentanone
Concen: 22.273 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 43 Resp: 247928
Ion Ratio Lower Upper
43 100
58 40.4 31.8 47.6

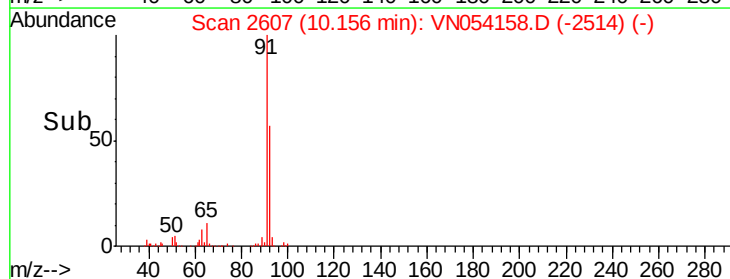
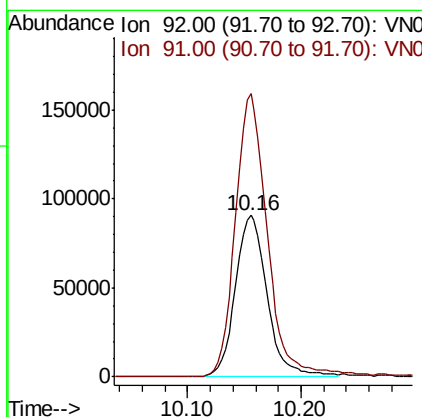
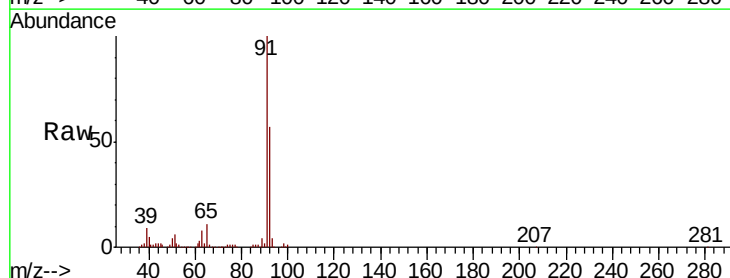
Manual Integrations
APPROVED

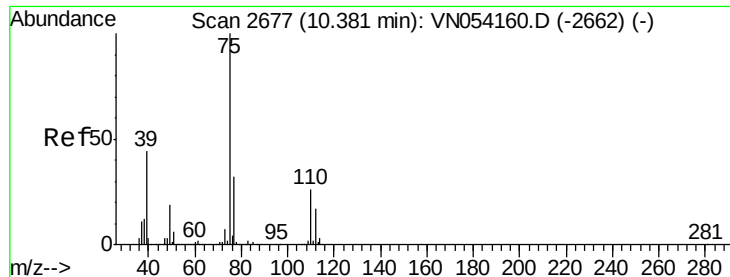
MMDadoda
3/13/2019 11:49:04 AM



#52
Toluene
Concen: 4.706 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion: 92 Resp: 178079
Ion Ratio Lower Upper
92 100
91 177.2 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 5.617 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tgt Ion: 75 Resp: 86803

Ion Ratio Lower Upper

75 100

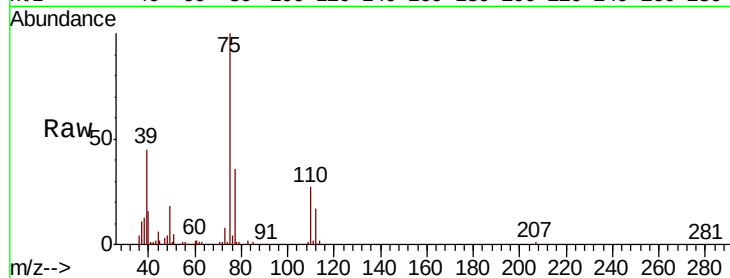
77 33.7 25.8 38.8

Manual Integrations

APPROVED

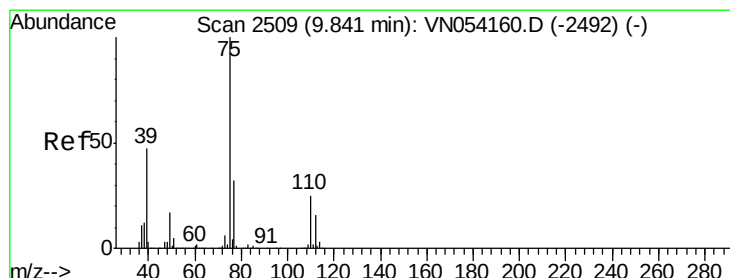
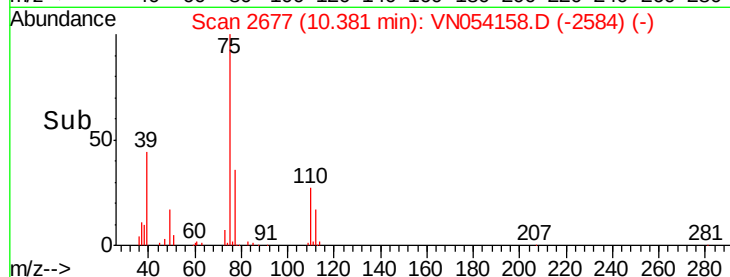
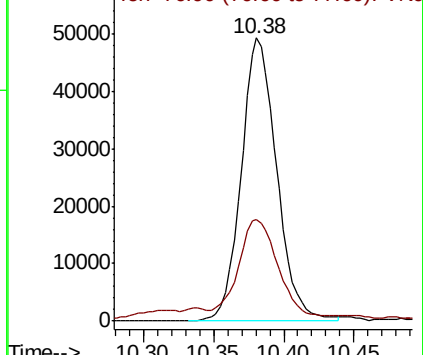
MMDadoda

3/13/2019 11:49:04 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.530 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

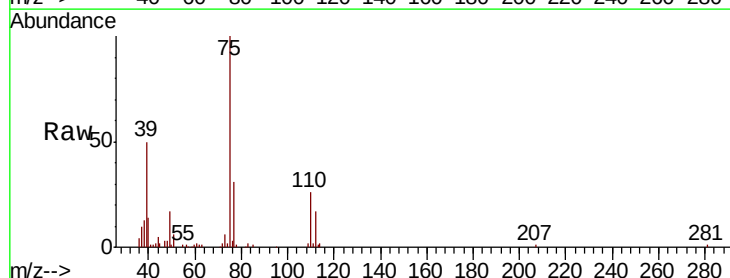
Tgt Ion: 75 Resp: 105956

Ion Ratio Lower Upper

75 100

77 31.3 25.4 38.0

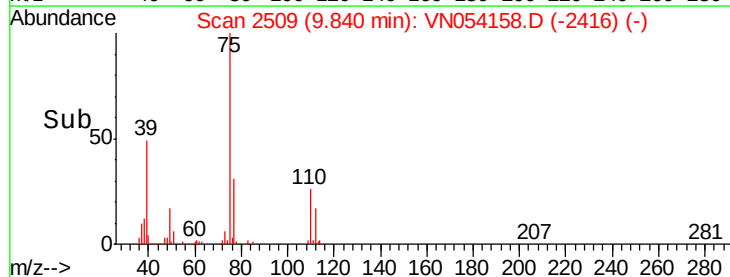
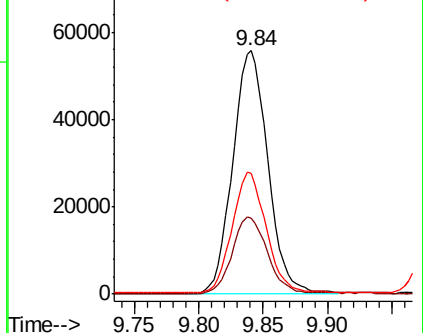
39 49.3 37.2 55.8

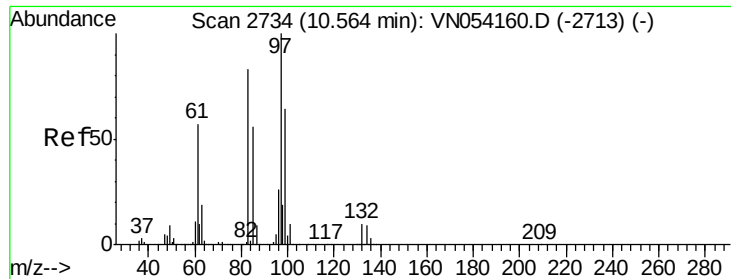


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





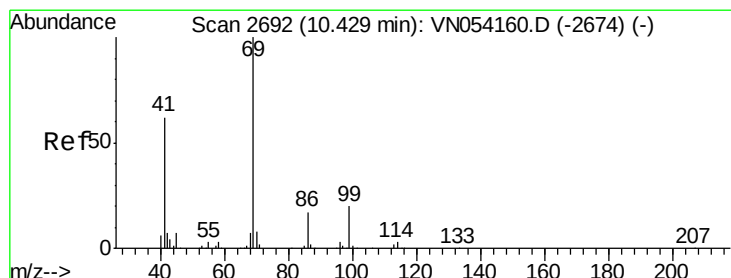
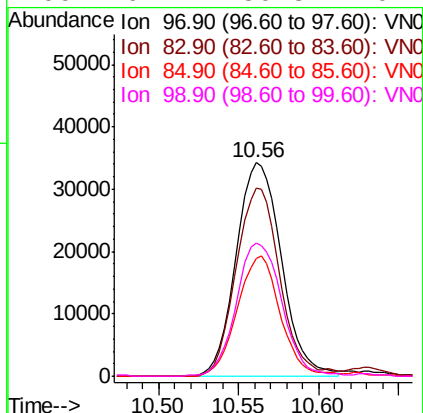
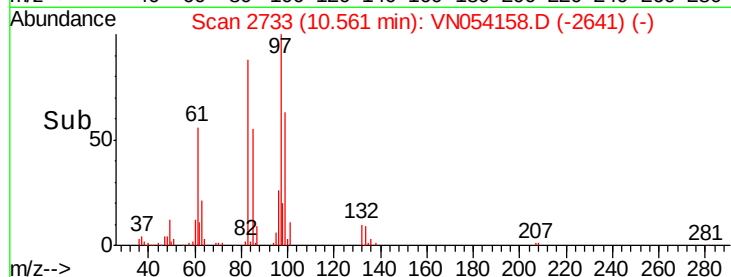
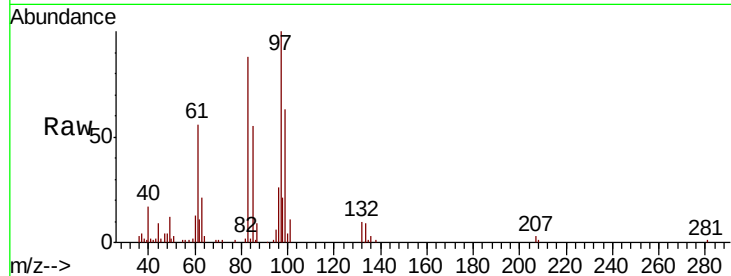
#55
 1,1,2-Trichloroethane
 Concen: 4.802 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.9	66.6	100.0
85	55.4	44.4	66.6
99	62.2	50.8	76.2

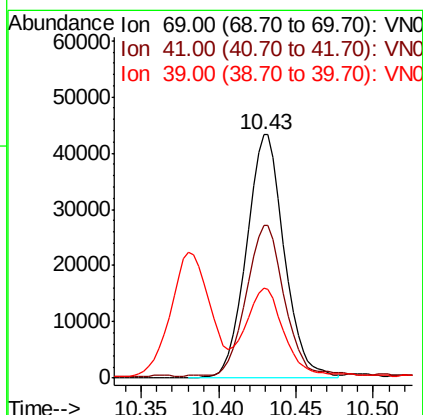
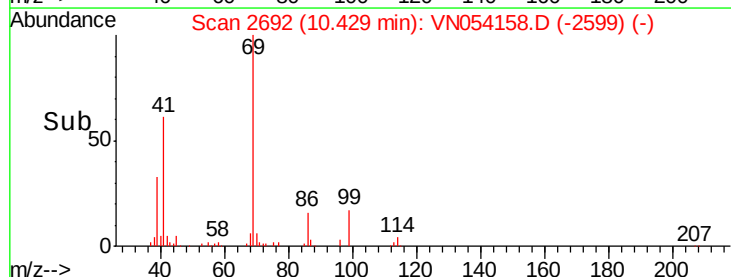
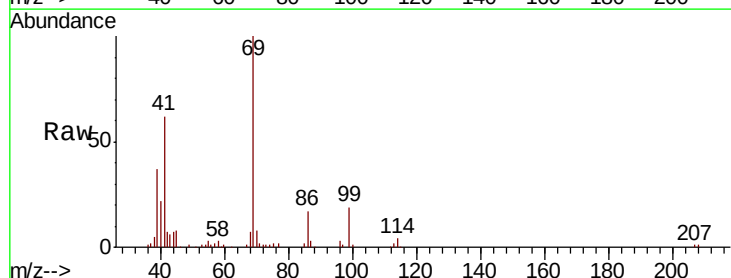
Manual Integrations
 APPROVED

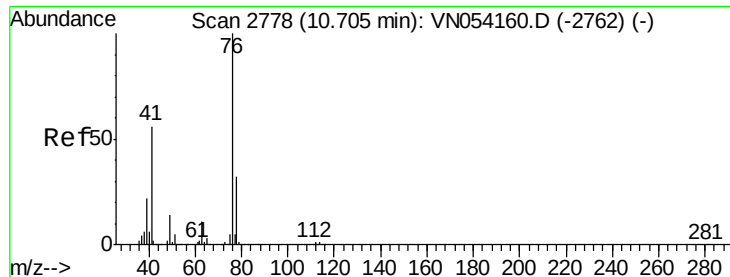
MMDadoda
 3/13/2019 11:49:04 AM



#56
 Ethyl methacrylate
 Concen: 4.474 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.8	49.4	74.2
39	35.4	28.3	42.5





#57

1,3-Dichloropropane

Concen: 4.756 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 107462

Ion Ratio Lower Upper

76 100

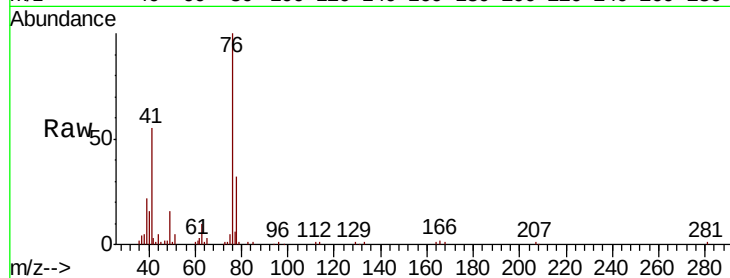
78 31.8 25.7 38.5

Manual Integrations

APPROVED

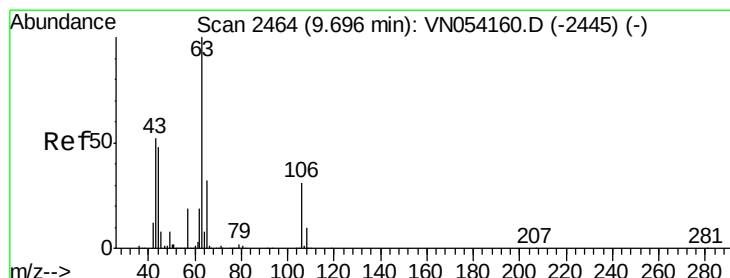
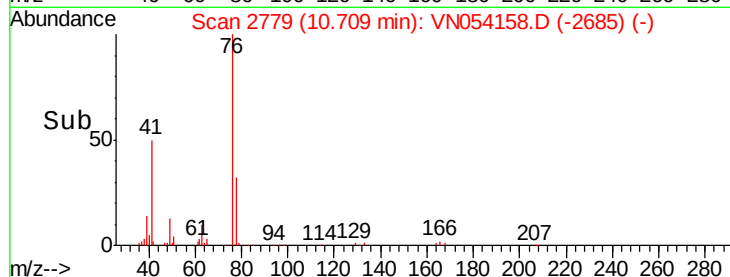
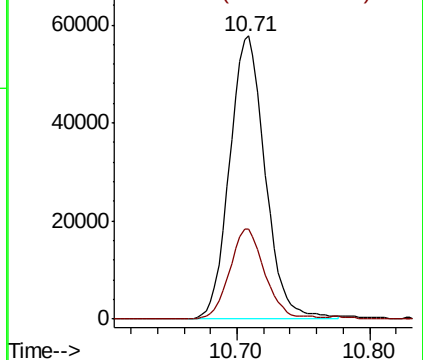
MMDadoda

3/13/2019 11:49:04 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 34.168 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054158.D

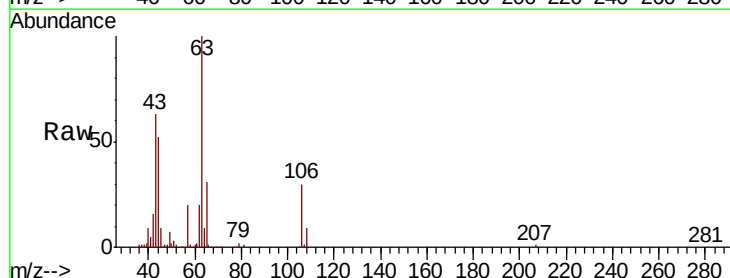
Acq: 12 Mar 2019 10:29

Tgt Ion: 63 Resp: 132882

Ion Ratio Lower Upper

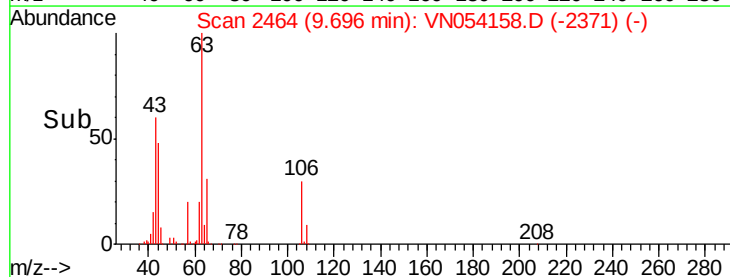
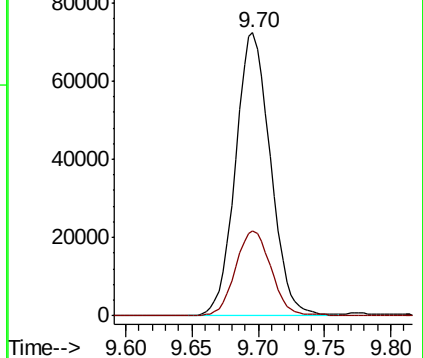
63 100

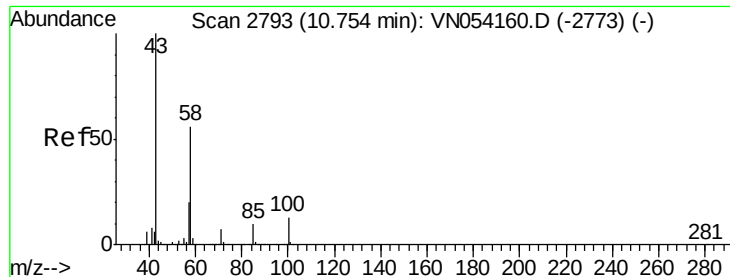
106 30.5 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





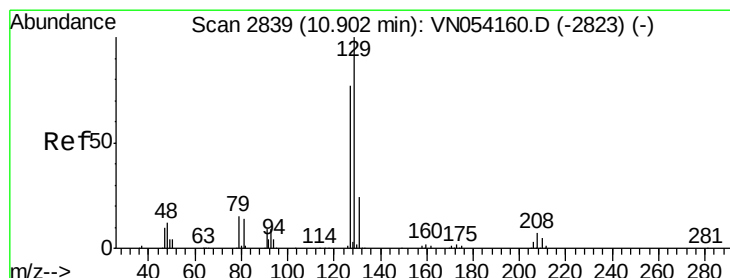
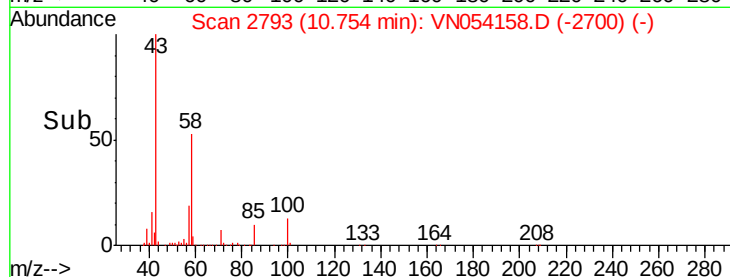
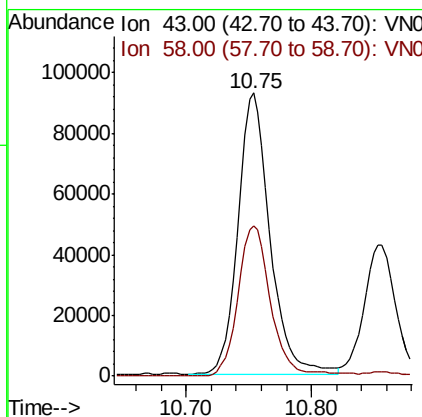
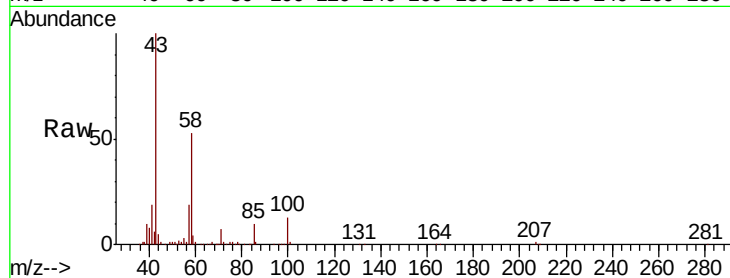
#59
2-Hexanone
Concen: 22.044 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tgt Ion: 43 Resp: 163277
Ion Ratio Lower Upper
43 100
58 55.4 28.0 83.9

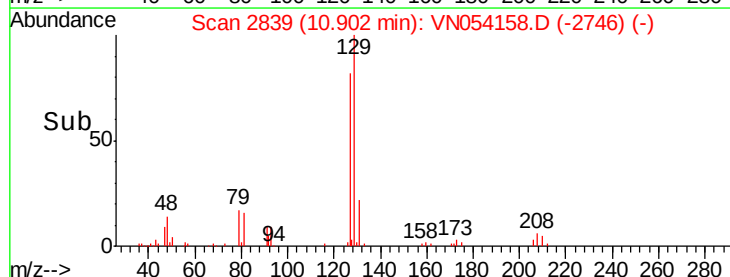
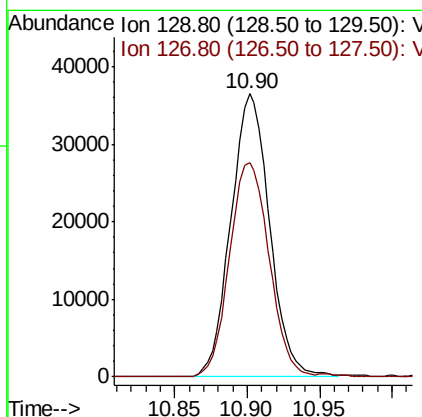
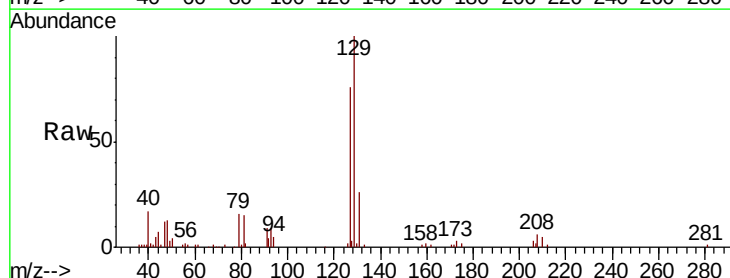
Manual Integrations
APPROVED

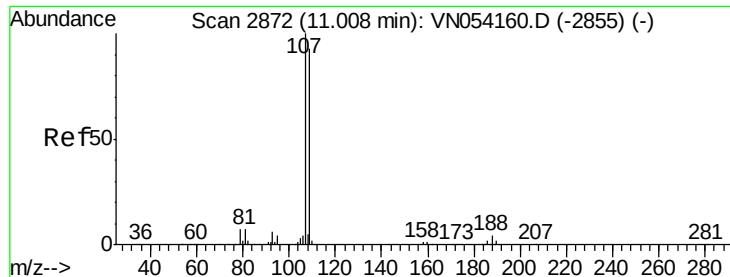
MMDadoda
3/13/2019 11:49:04 AM



#60
Dibromochloromethane
Concen: 4.359 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion: 129 Resp: 67785
Ion Ratio Lower Upper
129 100
127 77.3 38.6 115.8





#61

1,2-Dibromoethane

Concen: 4.667 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 107 Resp: 65525

Ion Ratio Lower Upper

107 100

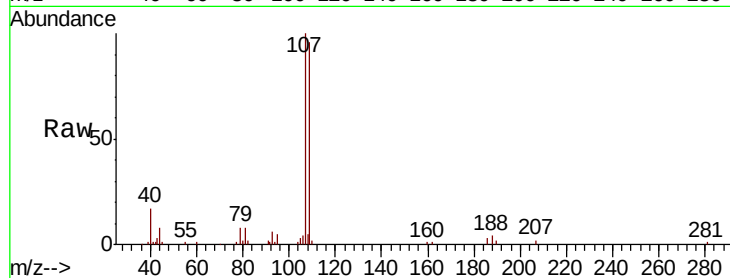
109 96.8 75.9 113.9

Manual Integrations

APPROVED

MMDadoda

3/13/2019 11:49:04 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

40000

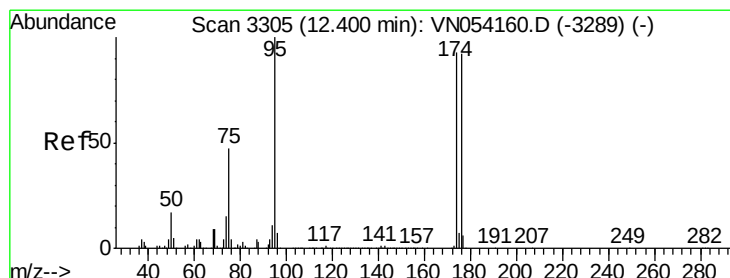
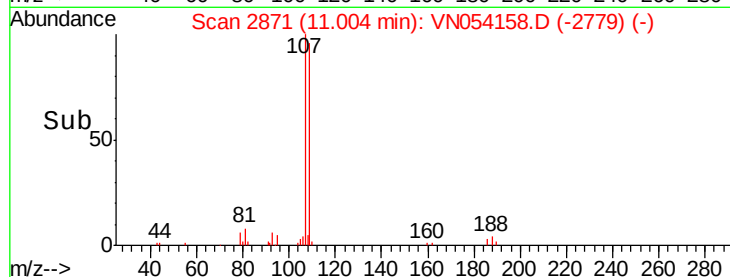
30000

20000

10000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 4.574 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

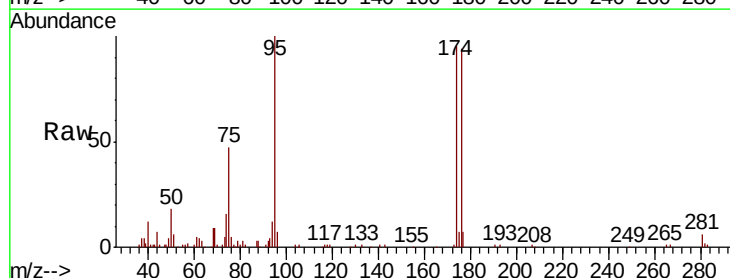
Tgt Ion: 95 Resp: 86325

Ion Ratio Lower Upper

95 100

174 96.8 0.0 191.0

176 94.7 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

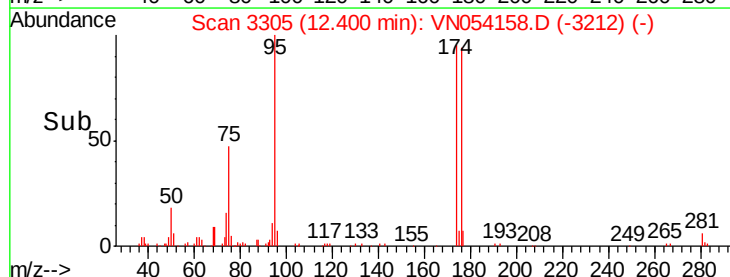
60000

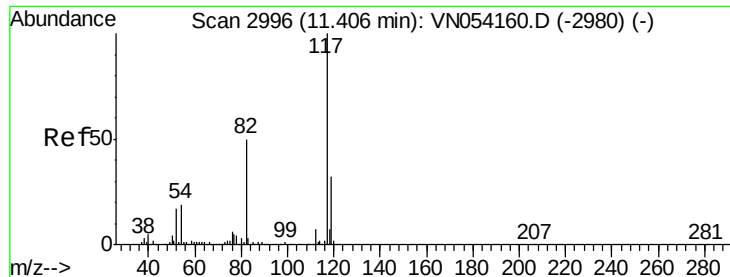
40000

20000

0

Time-->





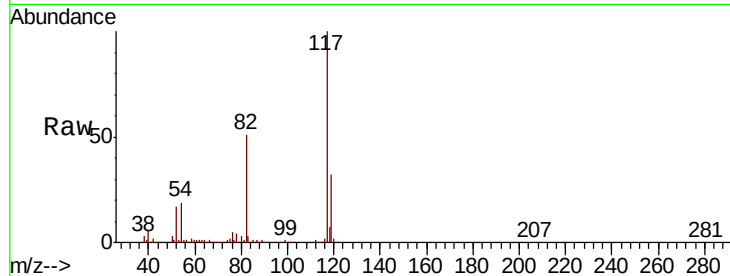
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

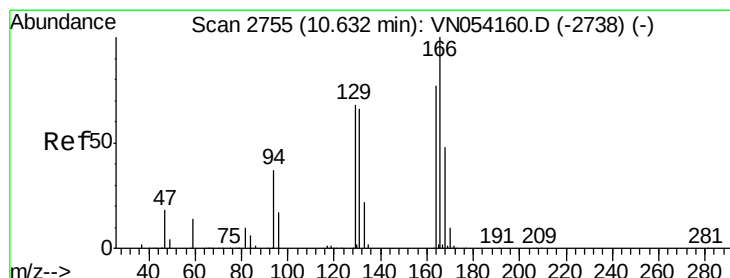
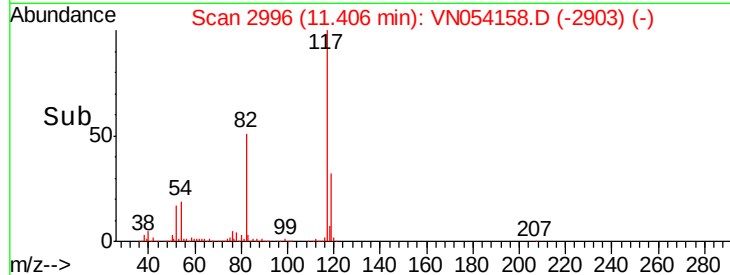
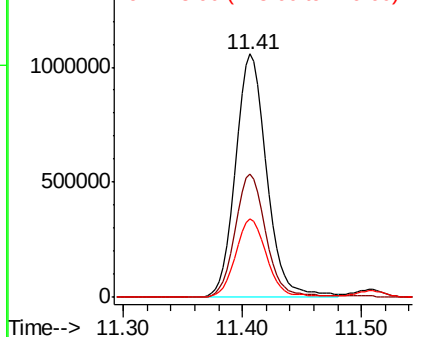
Tgt Ion:117 Resp: 1922063
Ion Ratio Lower Upper
117 100
82 50.6 40.0 60.0
119 32.2 25.8 38.6

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



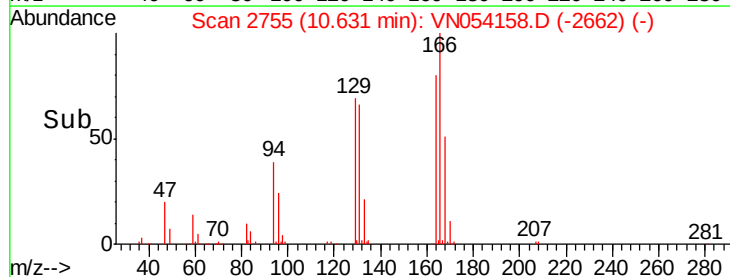
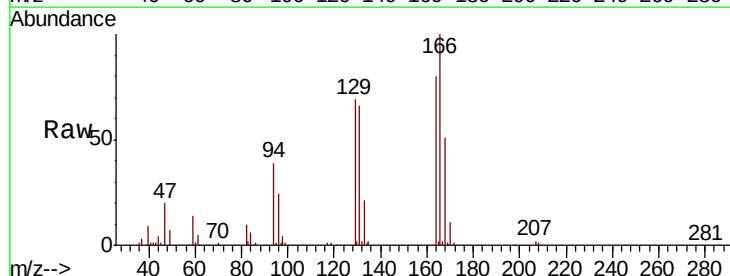
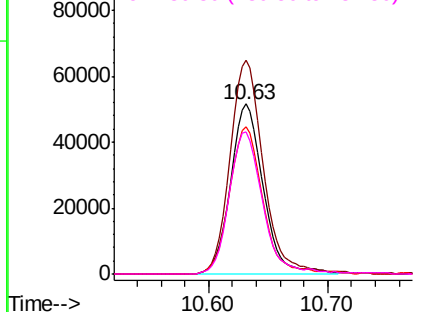
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

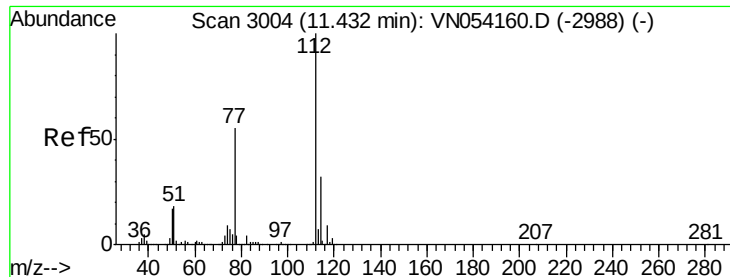


#64
Tetrachloroethene
Concen: 5.291 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion:164 Resp: 98332
Ion Ratio Lower Upper
164 100
166 125.5 103.9 155.9
129 86.8 71.1 106.7
131 83.2 68.2 102.4

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





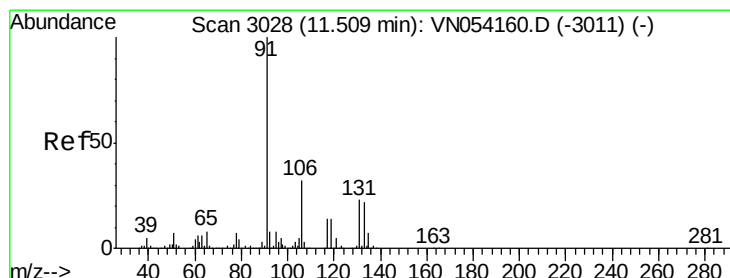
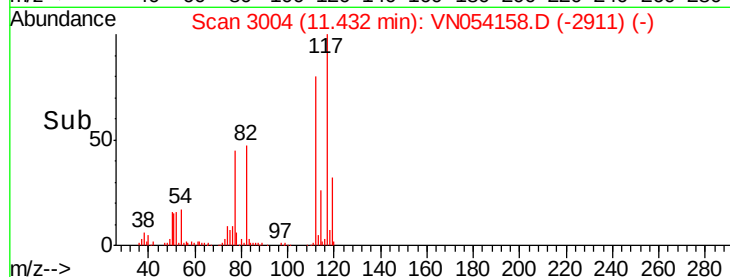
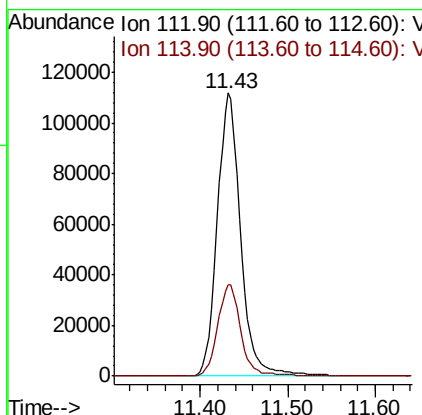
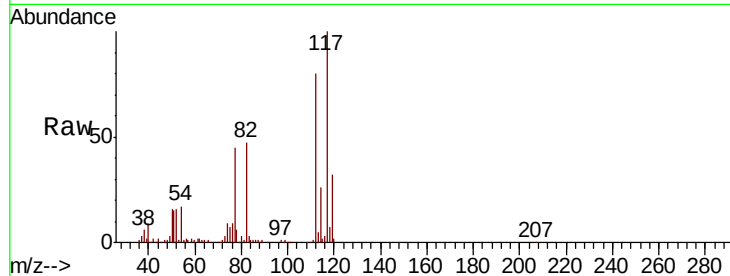
#65
Chlorobenzene
Concen: 4.898 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.9	38.9

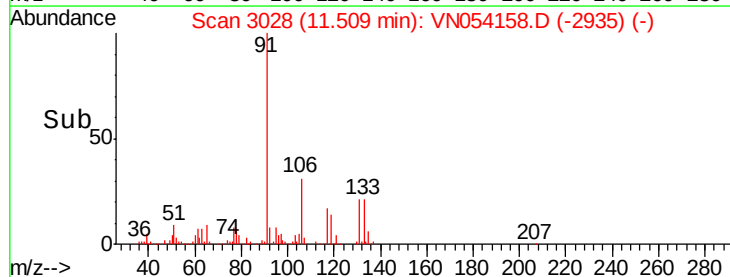
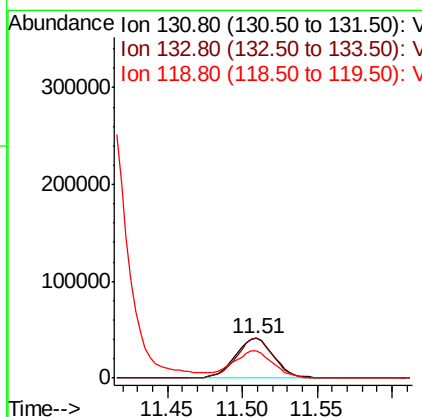
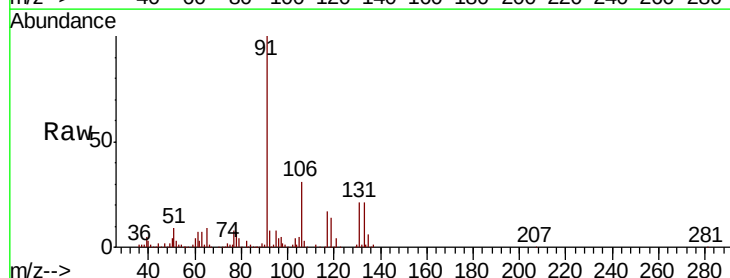
Manual Integrations
APPROVED

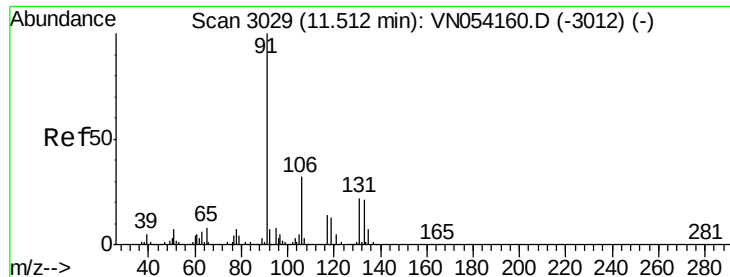
MMDadoda
3/13/2019 11:49:04 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.827 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.5	47.6	142.9
119	72.9	32.4	97.0





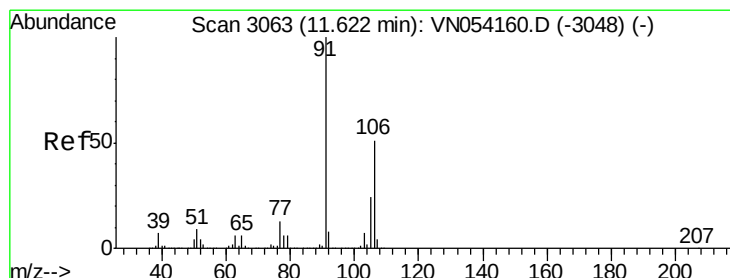
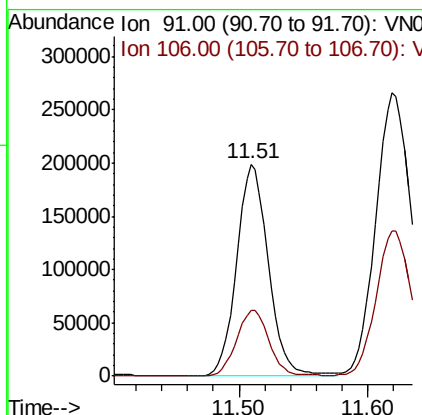
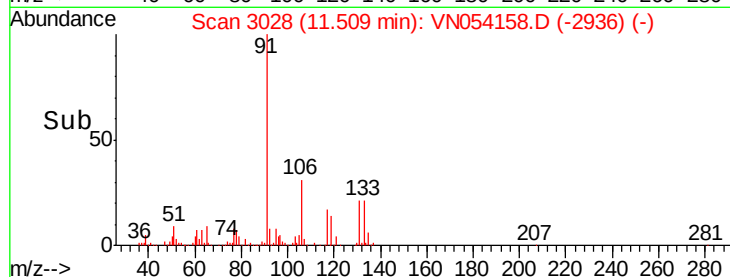
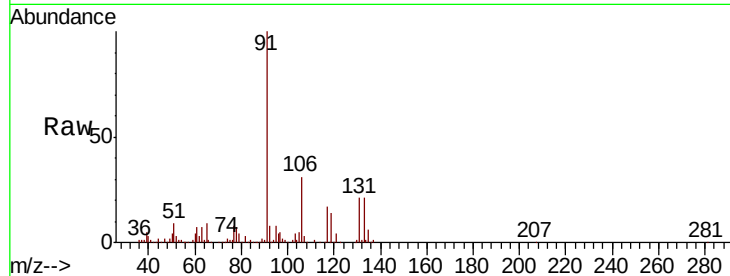
#67
Ethyl Benzene
Concen: 4.869 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 91 Resp: 340644
Ion Ratio Lower Upper
91 100
106 31.0 25.5 38.3

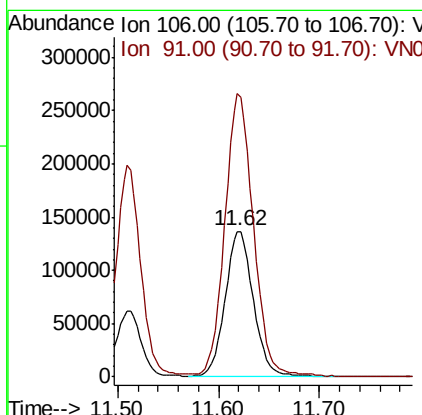
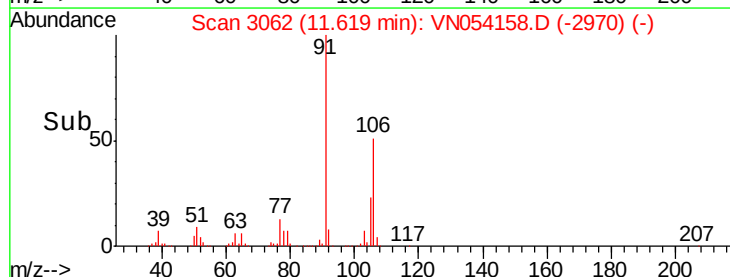
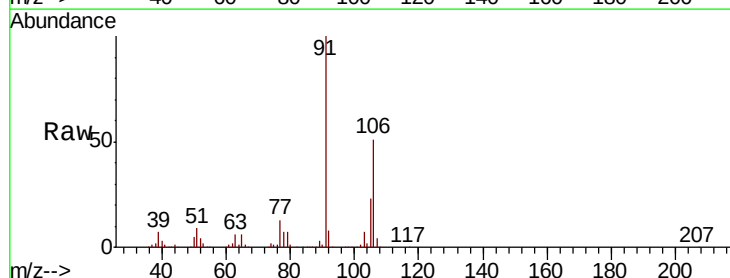
Manual Integrations
APPROVED

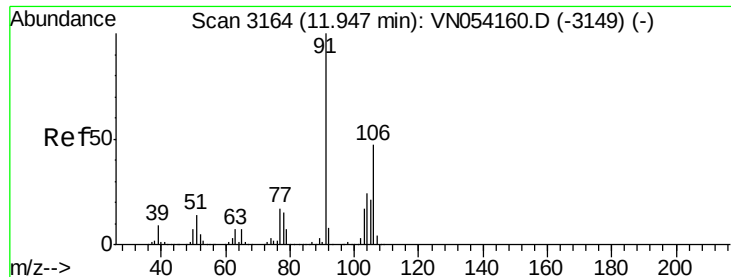
MMDadoda
3/13/2019 11:49:04 AM



#68
m/p-Xylenes
Concen: 9.704 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion: 106 Resp: 265326
Ion Ratio Lower Upper
106 100
91 199.0 159.4 239.2





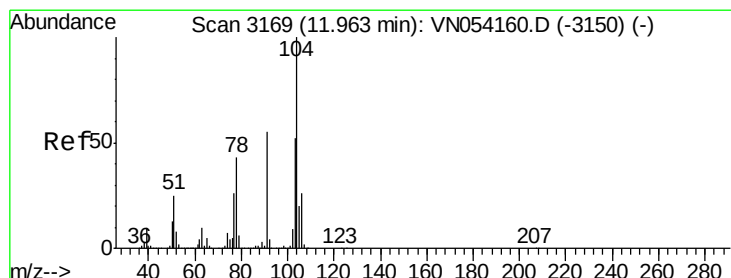
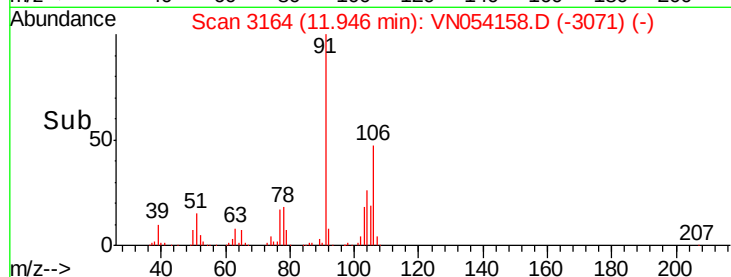
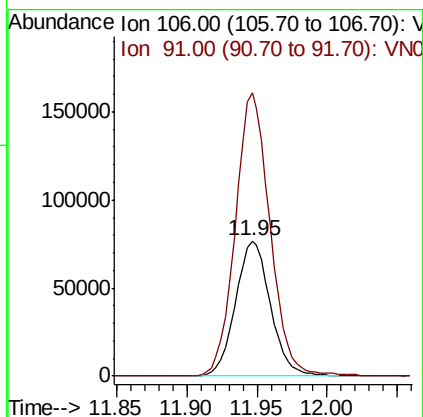
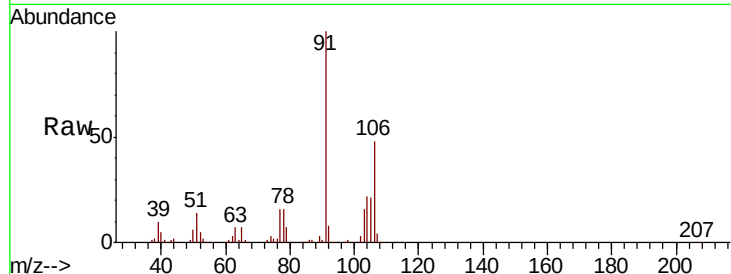
#69
o-Xylene
Concen: 5.003 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:106 Resp: 133351
Ion Ratio Lower Upper
106 100
91 208.2 105.7 317.1

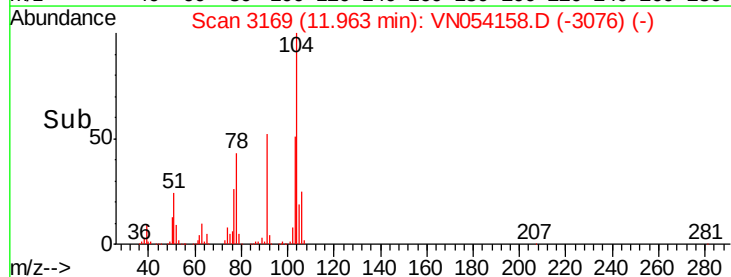
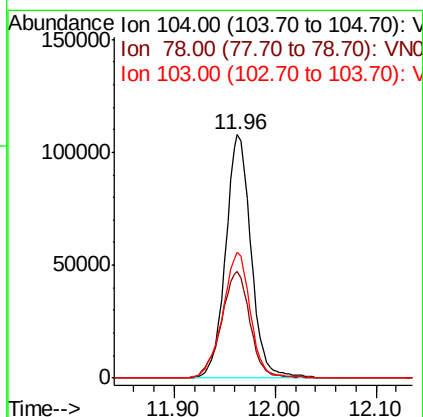
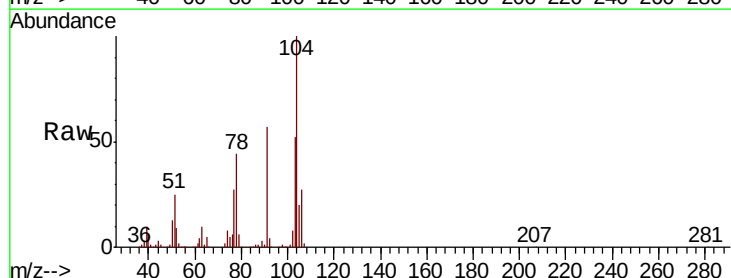
Manual Integrations
APPROVED

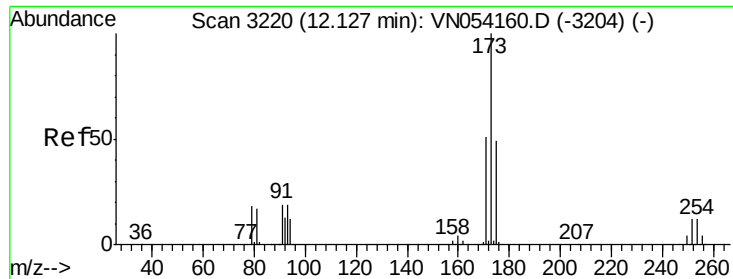
MMDadoda
3/13/2019 11:49:04 AM



#70
Styrene
Concen: 4.551 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion:104 Resp: 190239
Ion Ratio Lower Upper
104 100
78 49.3 38.2 57.2
103 56.4 44.4 66.6





#71

Bromoform

Concen: 5.832 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

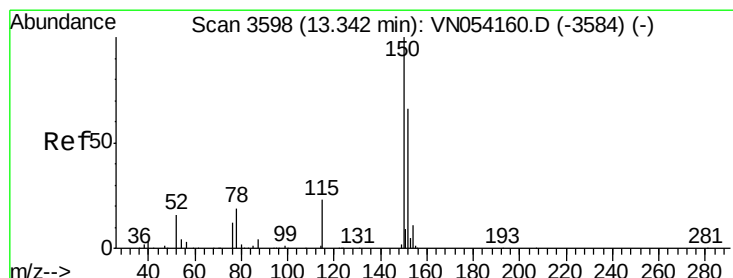
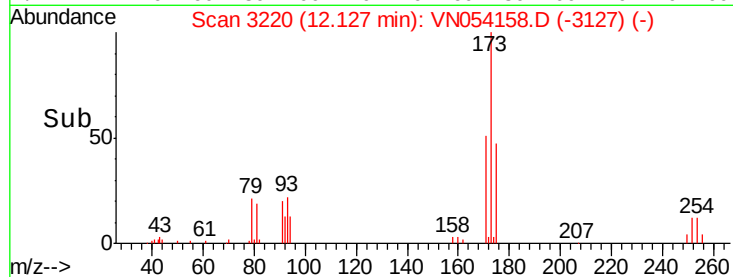
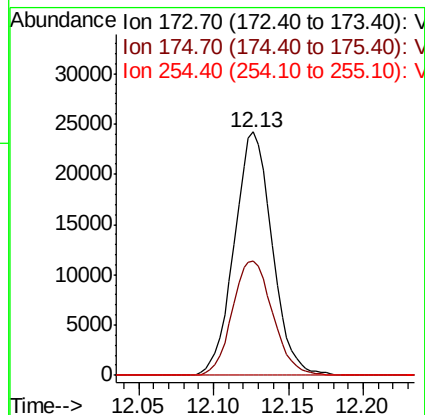
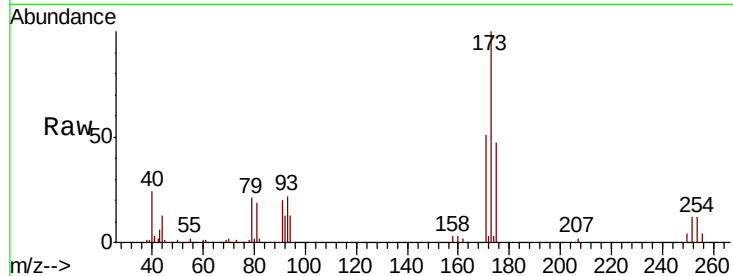
ClientSampleId :

VSTDIC005

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.4	73.2
254	0.0	0.1	0.1

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

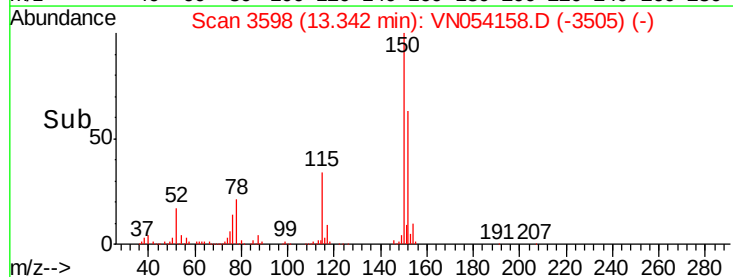
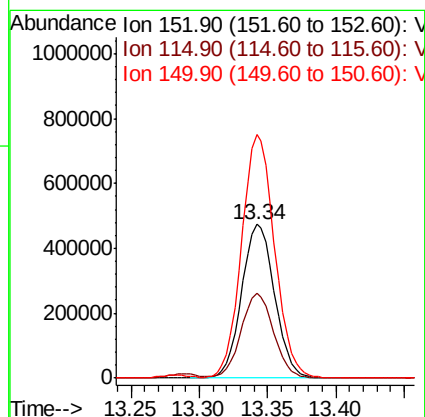
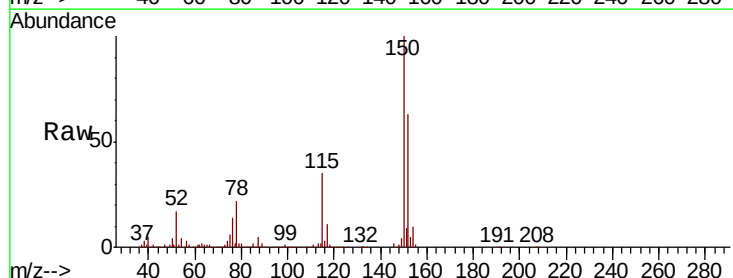
RT: 13.34 min Scan# 3598

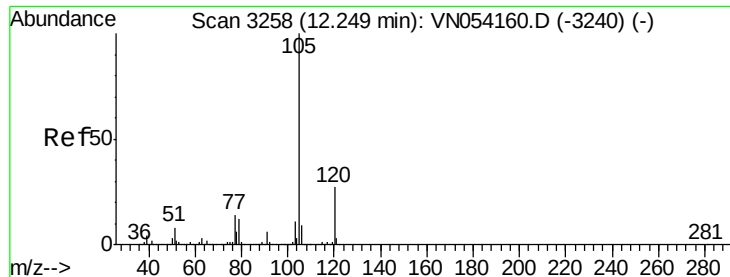
Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.6	27.2	81.6
150	158.3	0.0	349.2





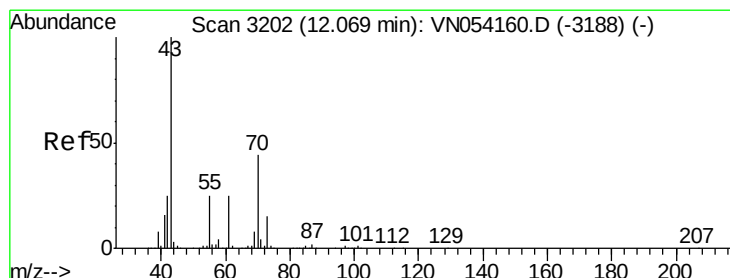
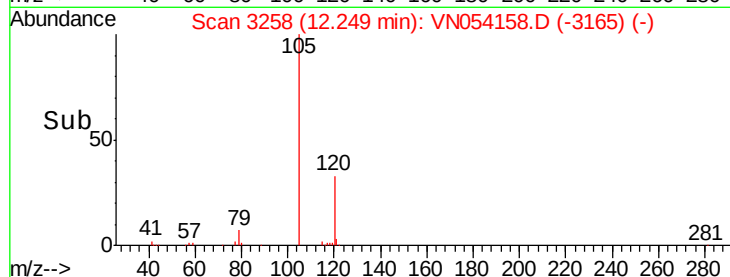
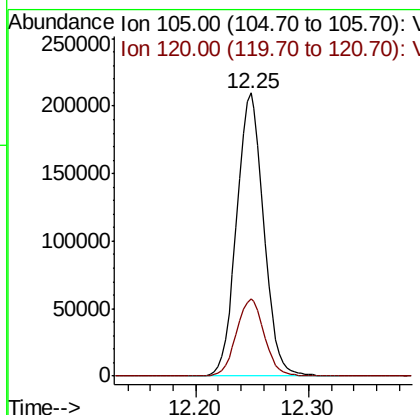
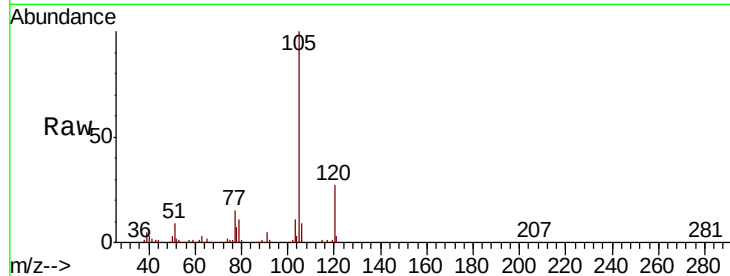
#73
Isopropylbenzene
Concen: 5.504 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.1	13.8	41.3

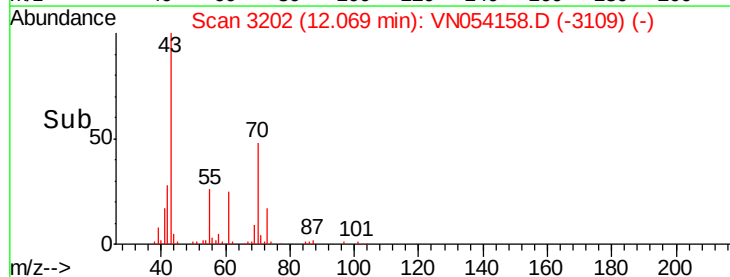
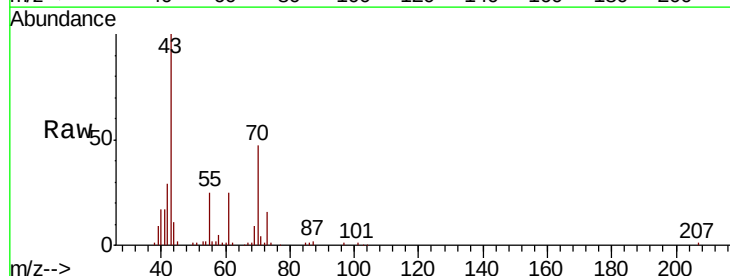
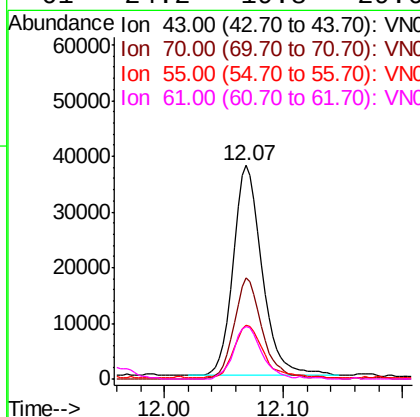
Manual Integrations
APPROVED

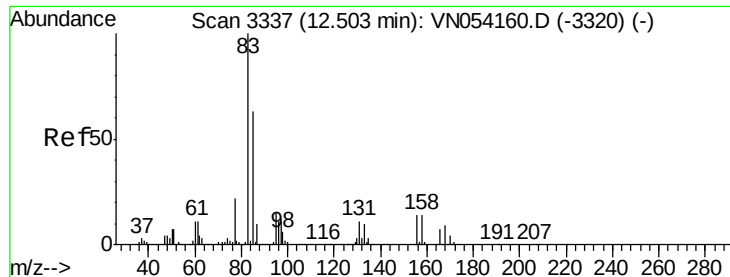
MMDadoda
3/13/2019 11:49:04 AM



#74
N-ethyl acetate
Concen: 4.524 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
43	100		
70	46.6	35.4	53.0
55	26.2	19.8	29.6
61	24.2	19.8	29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 5.415 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

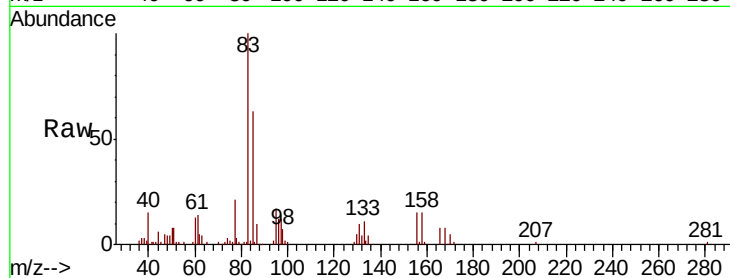
ClientSampled :

VSTDIC005

Tgt Ion:	83	Resp:	73323
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.8	17.4
85	60.7	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM

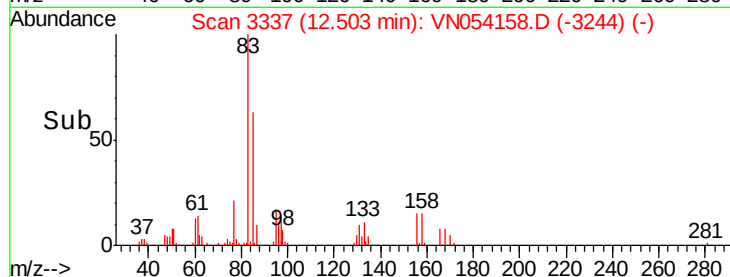


Abundance Ion 82.90 (82.60 to 83.60): VN054158.D (-3244) (-)

Ion 130.80 (130.50 to 131.50): VN054158.D (-3244) (-)

Ion 84.90 (84.60 to 85.60): VN054158.D (-3244) (-)

Time--> 12.40 12.50 12.60

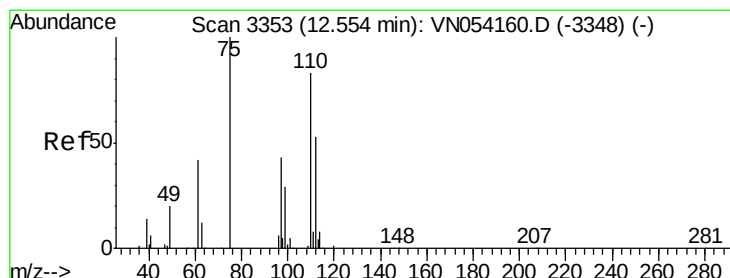


Abundance Ion 82.90 (82.60 to 83.60): VN054158.D (-3244) (-)

Ion 130.80 (130.50 to 131.50): VN054158.D (-3244) (-)

Ion 84.90 (84.60 to 85.60): VN054158.D (-3244) (-)

Time--> 12.40 12.50 12.60



#76

1,2,3-Trichloropropane

Concen: 5.590 ug/l m

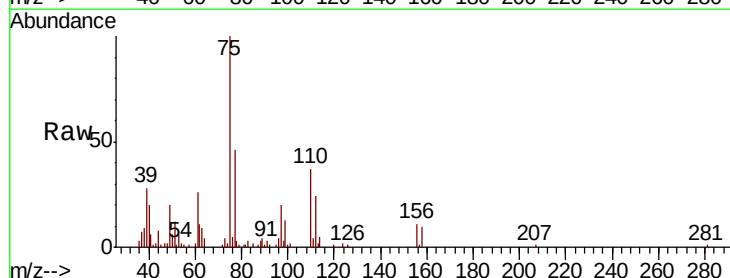
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

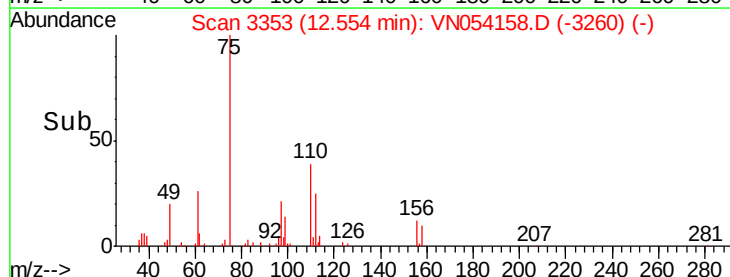
Tgt Ion:	75	Resp:	66152
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054158.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN054158.D (-3260) (-)

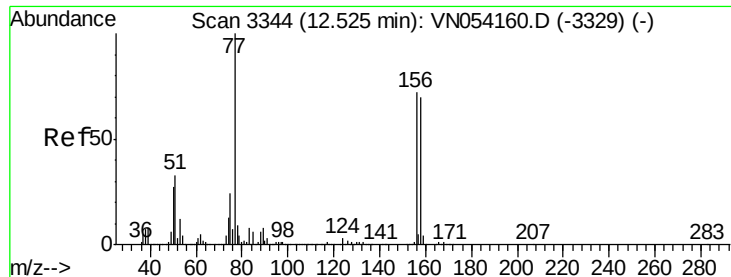
Time--> 12.50 12.55 12.60



Abundance Ion 74.90 (74.60 to 75.60): VN054158.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN054158.D (-3260) (-)

Time--> 12.50 12.55 12.60



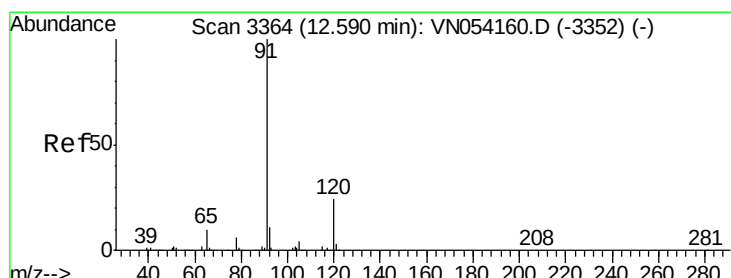
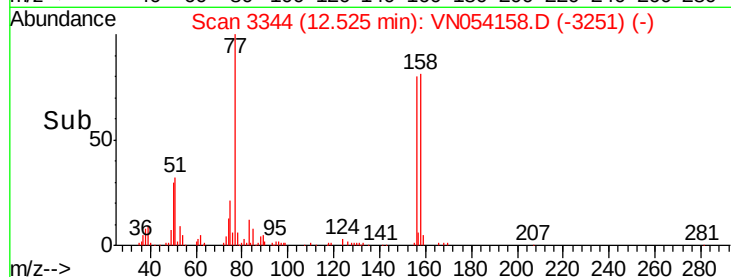
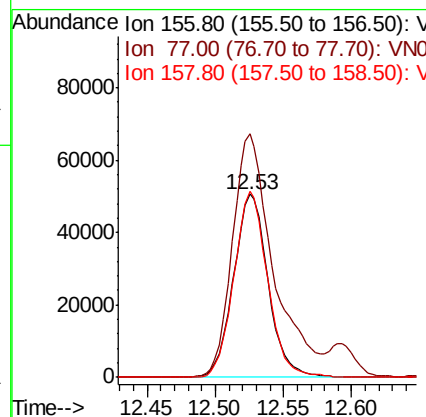
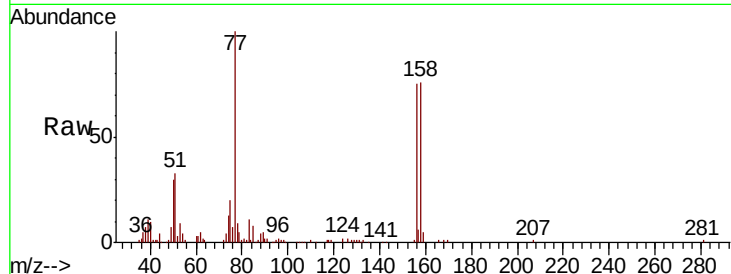
#77
Bromobenzene
Concen: 5.285 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
156	100		
77	157.3	81.5	244.4
158	99.0	49.0	147.2

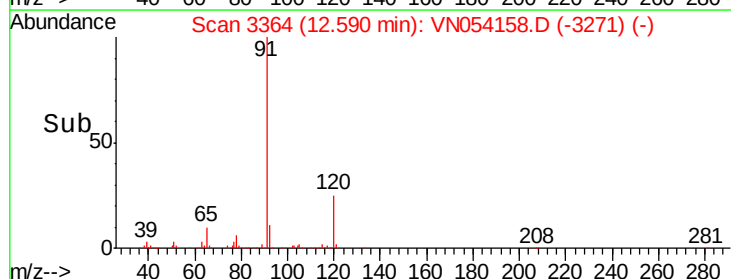
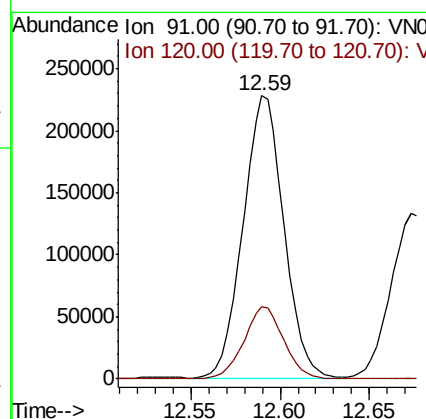
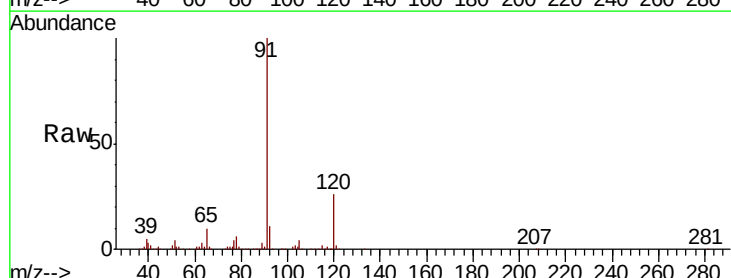
Manual Integrations
APPROVED

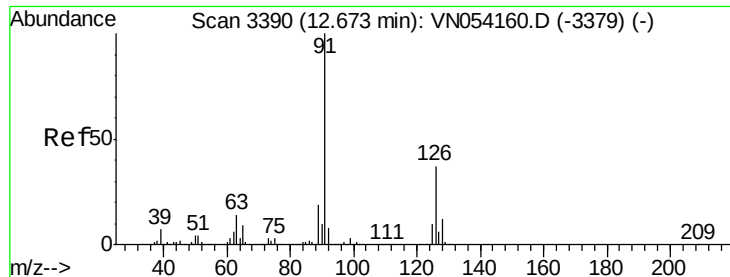
MMDadoda
3/13/2019 11:49:04 AM



#78
n-propylbenzene
Concen: 5.267 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
91	100		
120	25.0	12.3	36.9





#79

2-Chlorotoluene

Concen: 5.423 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 224843

Ion Ratio Lower Upper

91 100

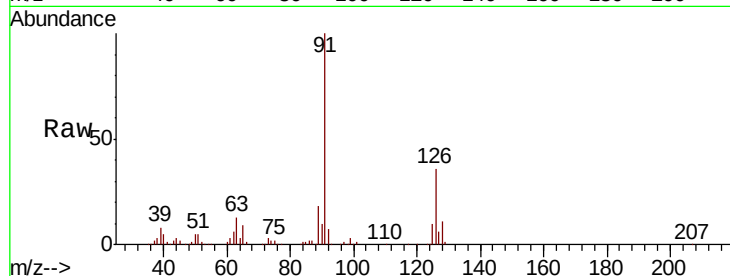
126 36.9 18.7 56.1

Manual Integrations

APPROVED

MMDadoda

3/13/2019 11:49:04 AM



Abundance Ion 91.00 (90.70 to 91.70): VN054160.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054160.D (-3379) (-)

12.67

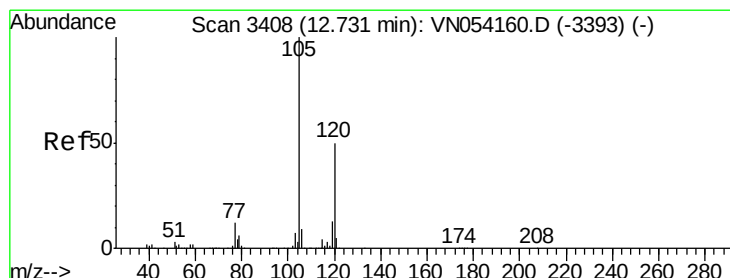
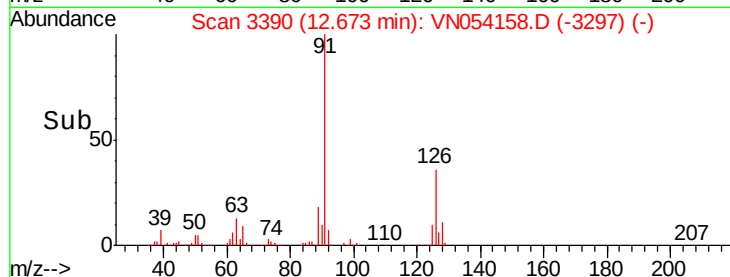
150000

100000

50000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 5.431 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054158.D

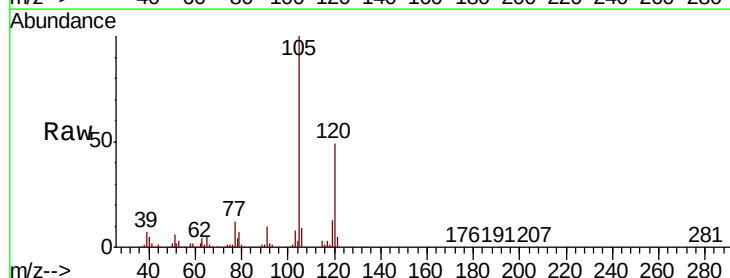
Acq: 12 Mar 2019 10:29

Tgt Ion: 105 Resp: 287077

Ion Ratio Lower Upper

105 100

120 49.6 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054160.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN054160.D (-3393) (-)

12.73

200000

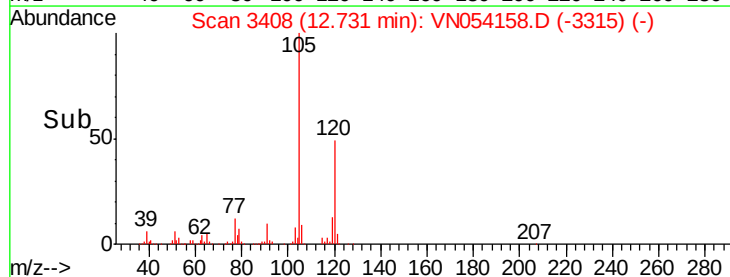
150000

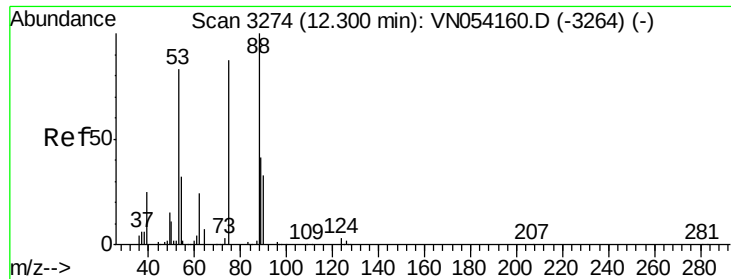
100000

50000

0

Time--> 12.70 12.80





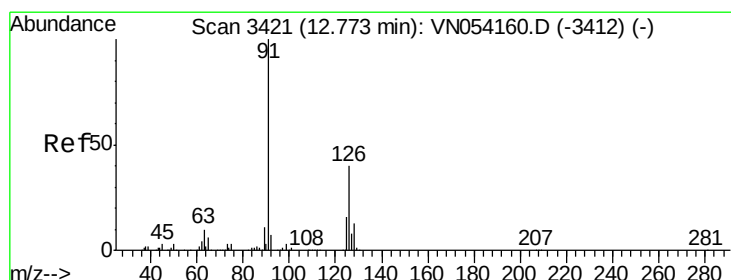
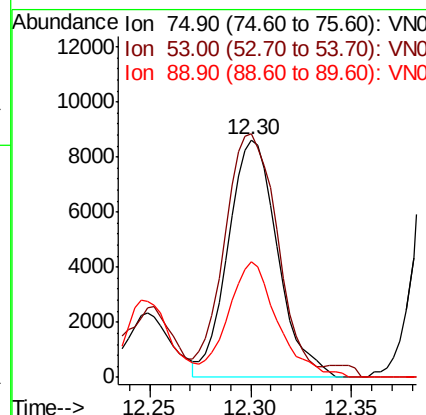
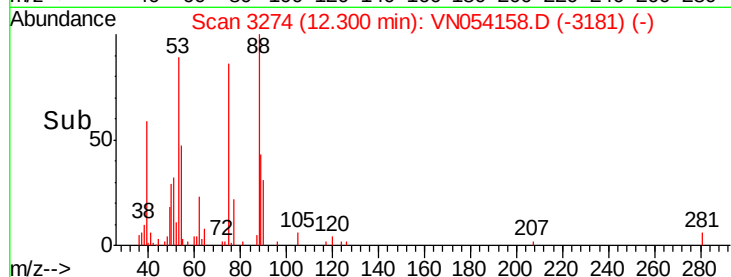
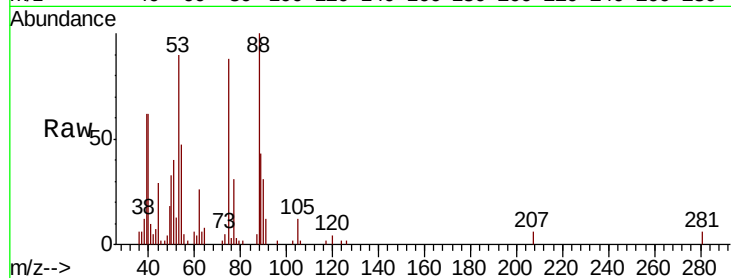
#81
trans-1,4-Dichloro-2-butene
Concen: 6.495 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
75	100		
53	102.4	76.2	114.2
89	48.6	39.2	58.8

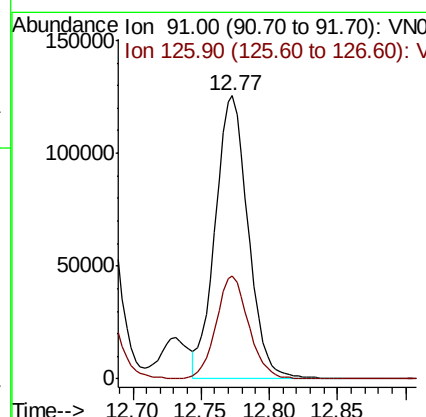
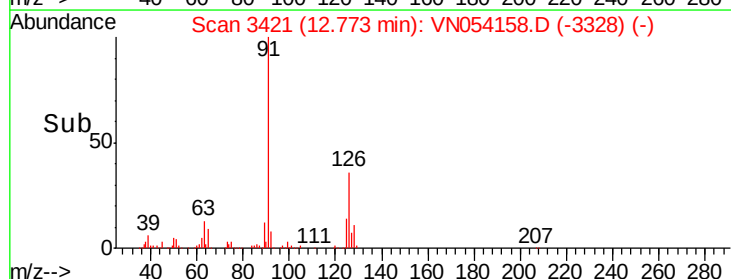
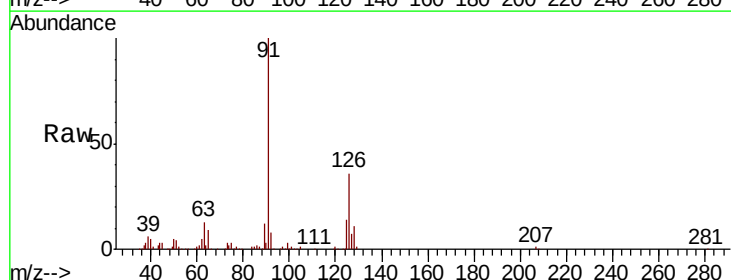
Manual Integrations
APPROVED

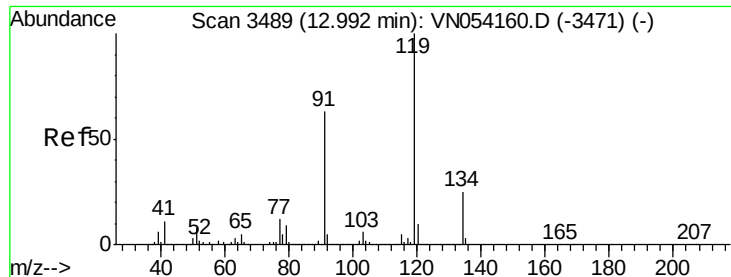
MMDadoda
3/13/2019 11:49:04 AM



#82
4-Chlorotoluene
Concen: 5.048 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.3	18.1	54.1





#83

tert-Butylbenzene

Concen: 5.532 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

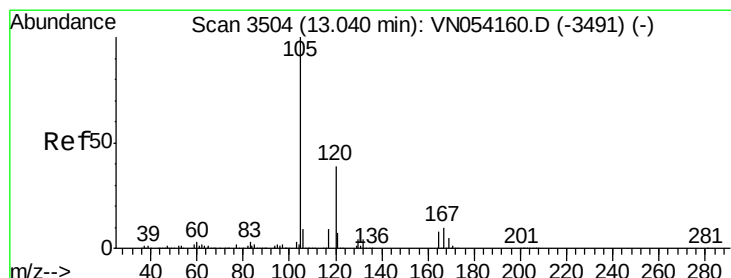
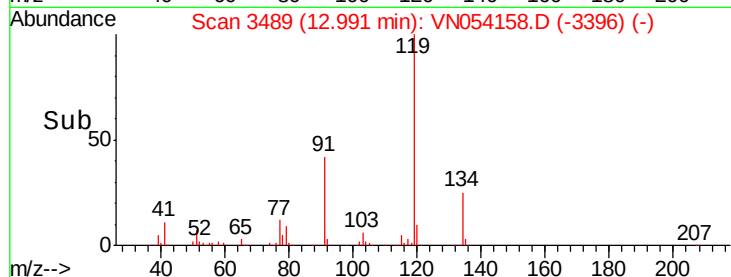
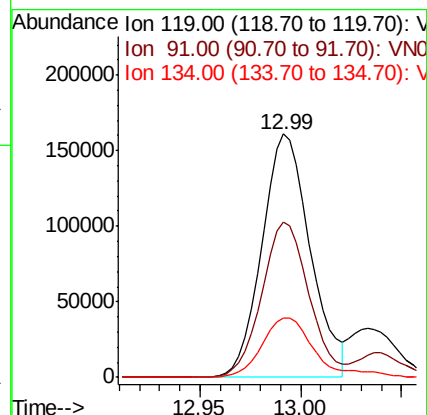
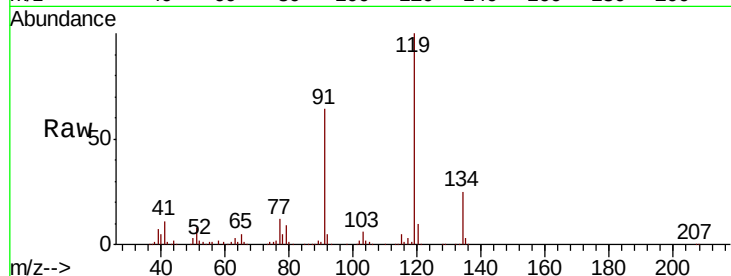
ClientSampleId :

VSTDIC005

Tgt Ion:	119	Resp:	269163
Ion Ratio	Lower	Upper	
119	100		
91	62.0	30.9	92.8
134	26.7	13.2	39.6

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



#84

1,2,4-Trimethylbenzene

Concen: 5.224 ug/l

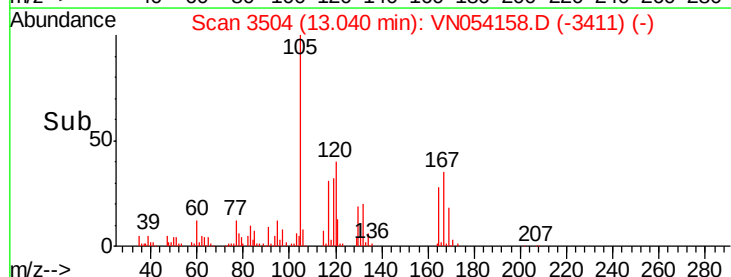
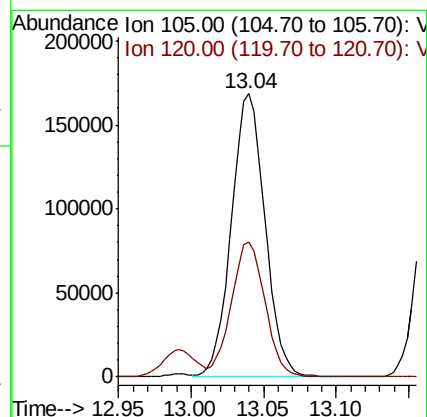
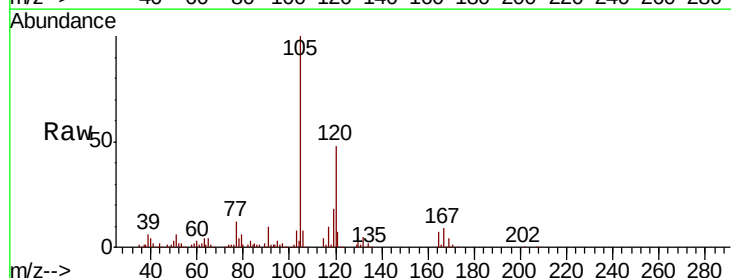
RT: 13.04 min Scan# 3504

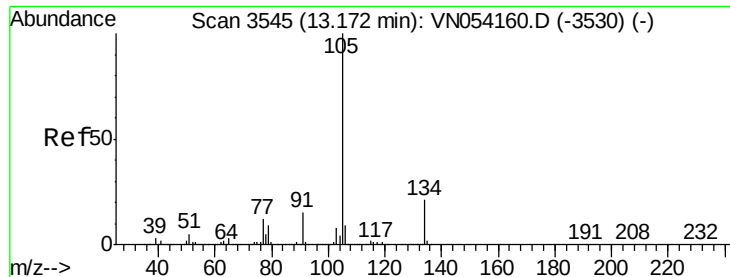
Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Tgt Ion:	105	Resp:	270897
Ion Ratio	Lower	Upper	
105	100		
120	47.7	23.4	70.3





#85

sec-Butylbenzene

Concen: 5.493 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 346577

Ion Ratio Lower Upper

105 100

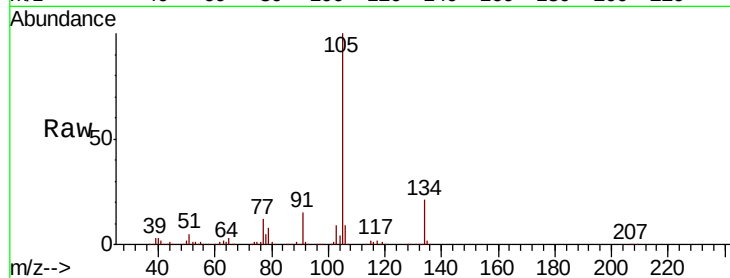
134 20.9 10.7 32.1

Manual Integrations

APPROVED

MMDadoda

3/13/2019 11:49:04 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

100000

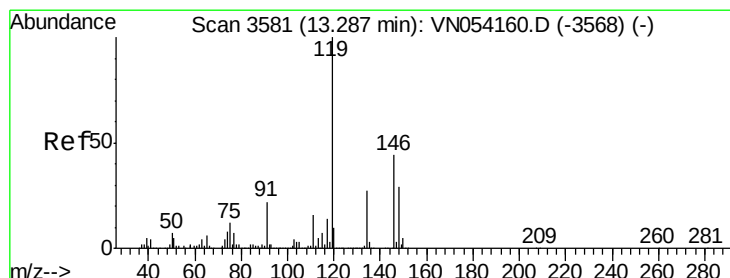
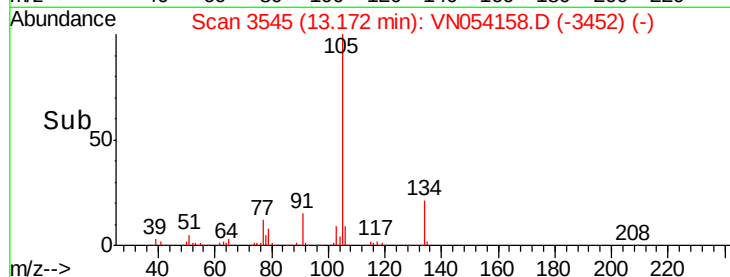
50000

0

13.10

13.20

Time-->



#86

p-Isopropyltoluene

Concen: 5.224 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

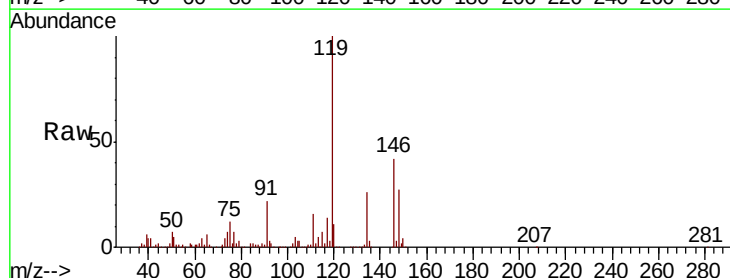
Tgt Ion:119 Resp: 289186

Ion Ratio Lower Upper

119 100

134 26.1 13.6 40.8

91 22.0 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

250000

200000

150000

100000

50000

0

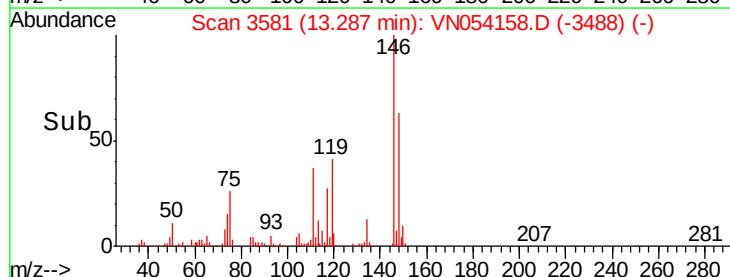
13.20

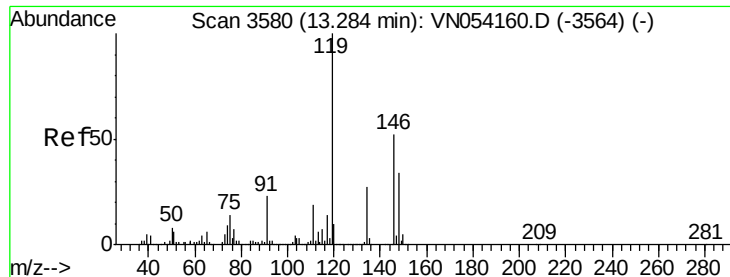
13.25

13.30

13.35

Time-->





#87

1,3-Dichlorobenzene

Concen: 5.014 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN054158.D

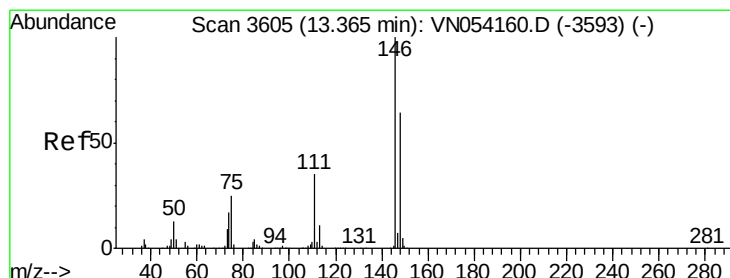
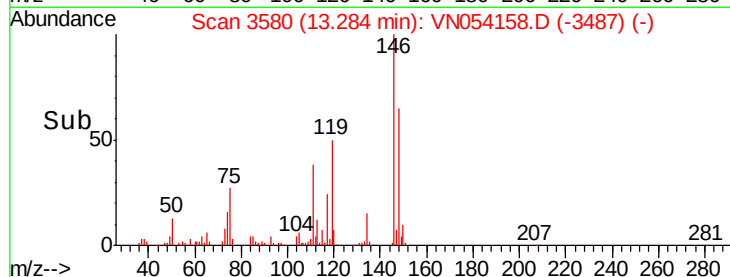
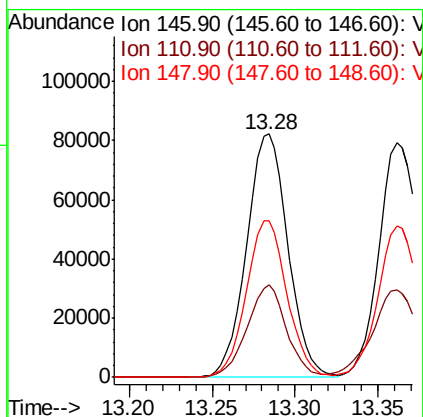
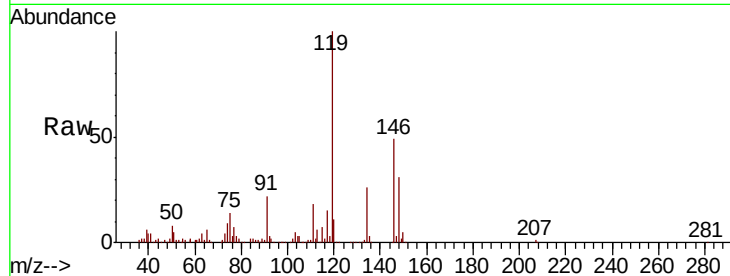
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.8	56.3
148	63.4	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



#88

1,4-Dichlorobenzene

Concen: 4.840 ug/l

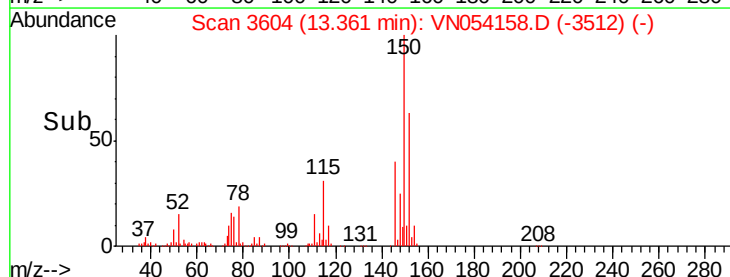
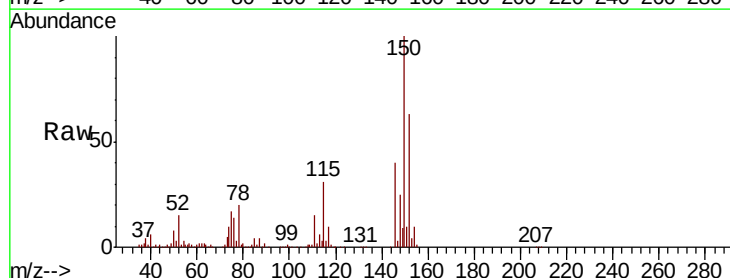
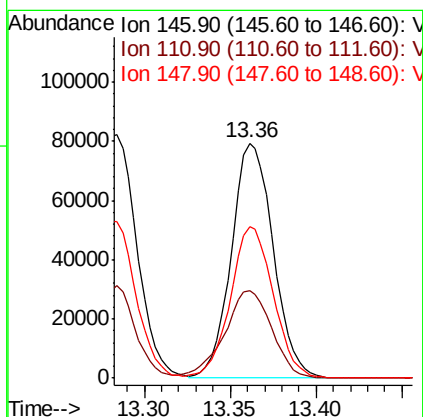
RT: 13.36 min Scan# 3604

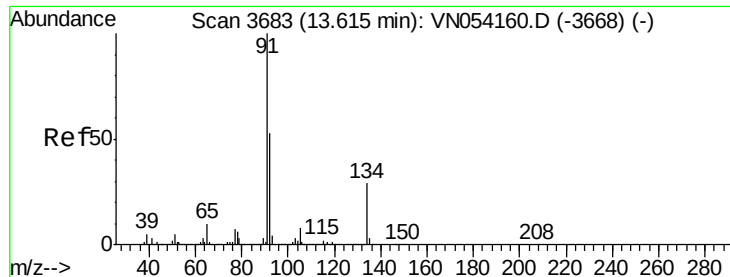
Delta R.T. -0.00 min

Lab File: VN054158.D

Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	18.1	54.1
148	66.2	32.0	96.0





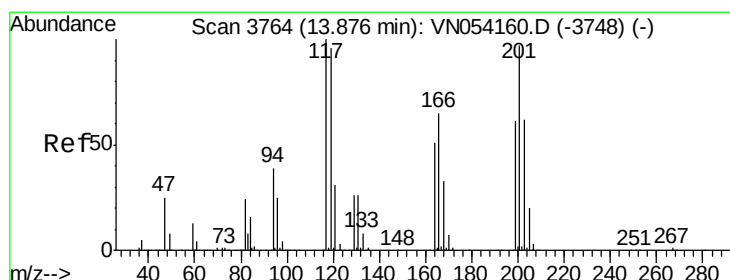
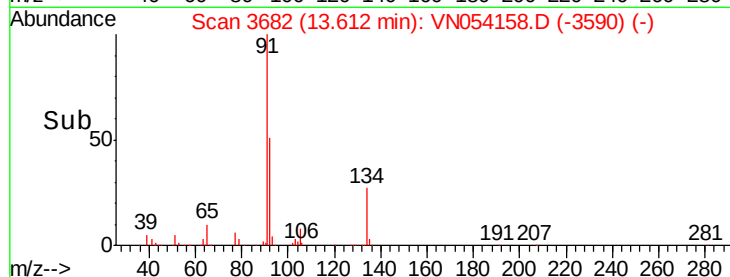
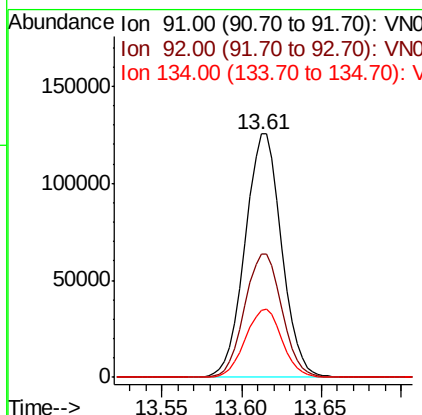
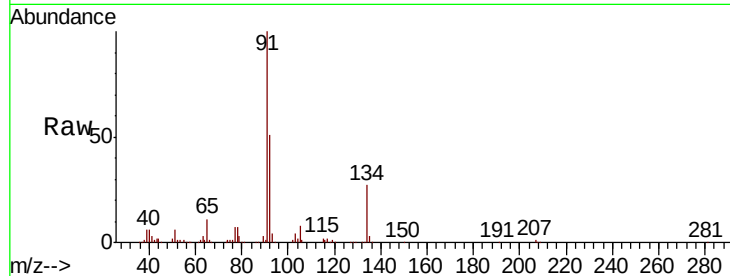
#89
n-Butylbenzene
Concen: 4.651 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.2	78.6
134	28.1	14.3	42.9

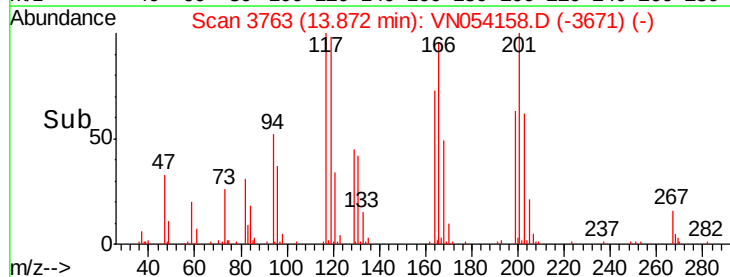
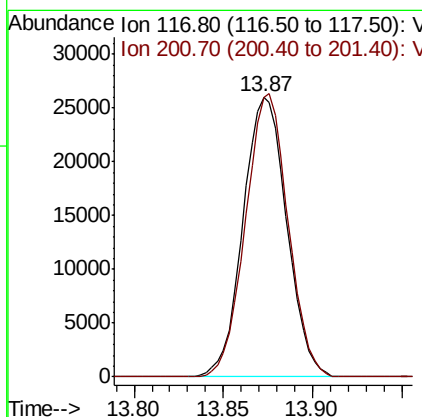
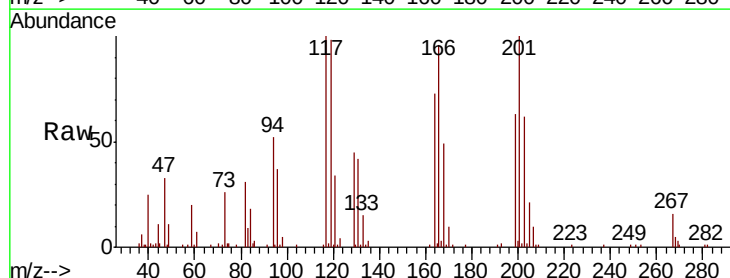
Manual Integrations
APPROVED

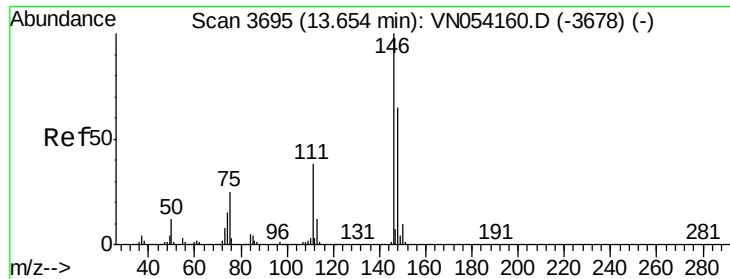
MMDadoda
3/13/2019 11:49:04 AM



#90
Hexachloroethane
Concen: 4.860 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Lower	Upper
117	100		
201	98.3	48.1	144.4





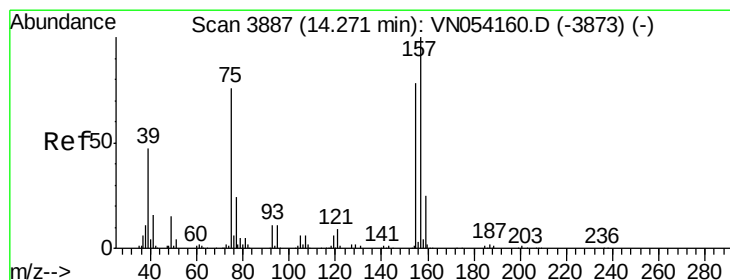
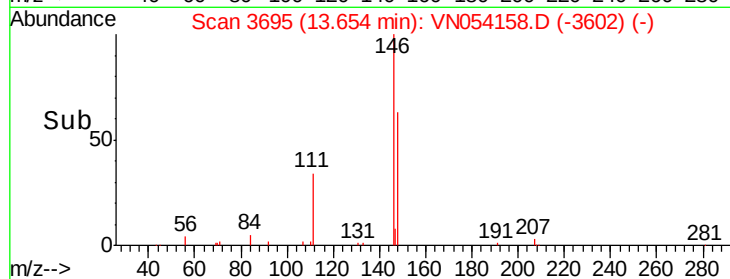
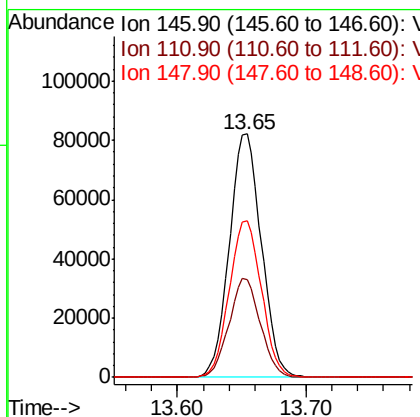
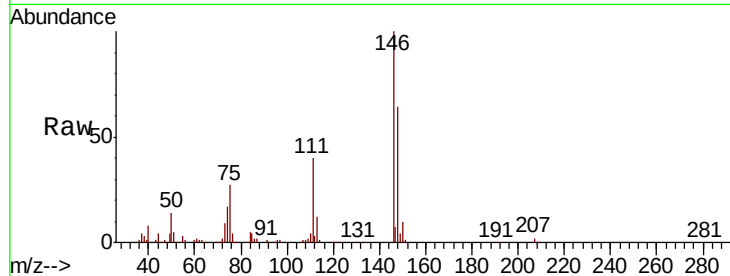
#91
 1,2-Dichlorobenzene
 Concen: 5.112 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	141614		
111	39.8	19.1	57.3	
148	64.4	32.4	97.0	

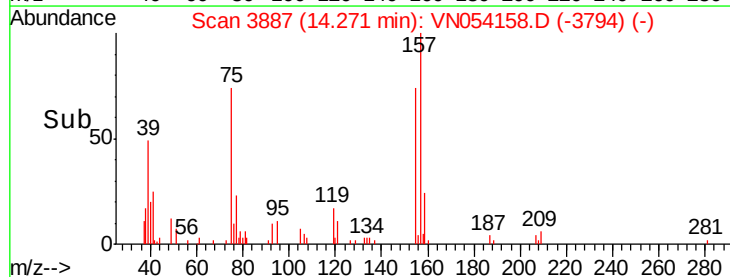
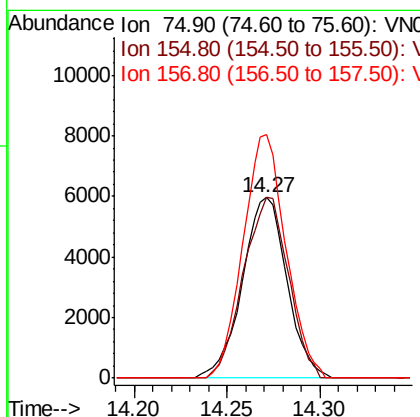
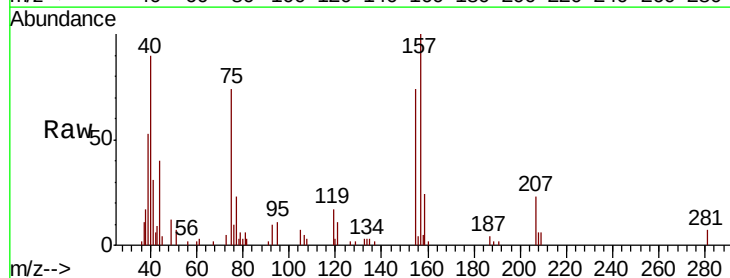
Manual Integrations
 APPROVED

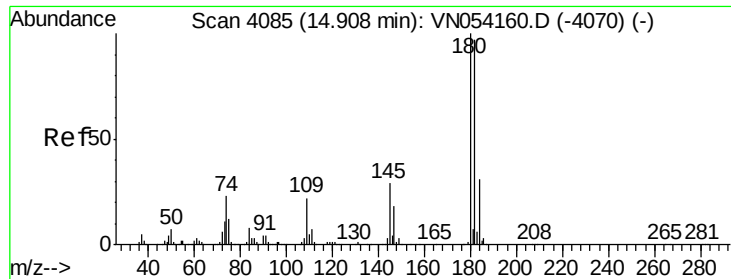
MMDadoda
 3/13/2019 11:49:04 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.759 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	9970		
155	100.5	50.1	150.3	
157	129.5	63.1	189.3	





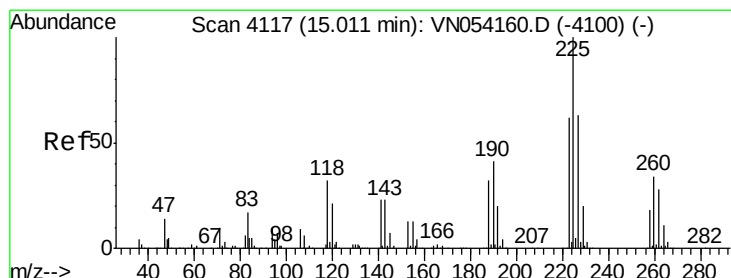
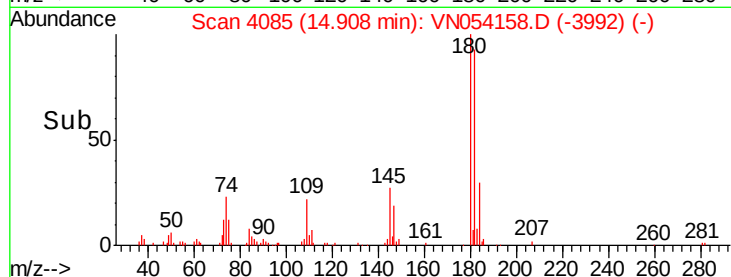
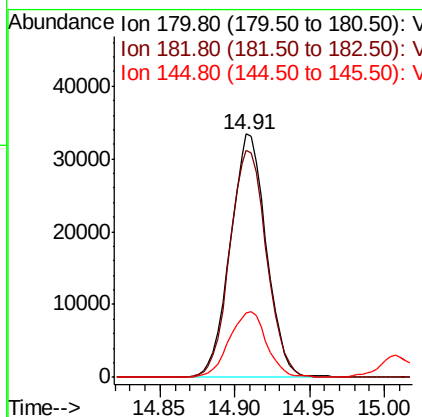
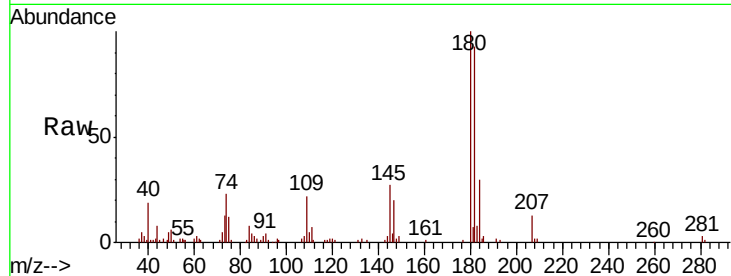
#93
 1,2,4-Trichlorobenzene
 Concen: 5.689 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	55867		
182	95.2	48.0	144.2	
145	28.1	14.2	42.8	

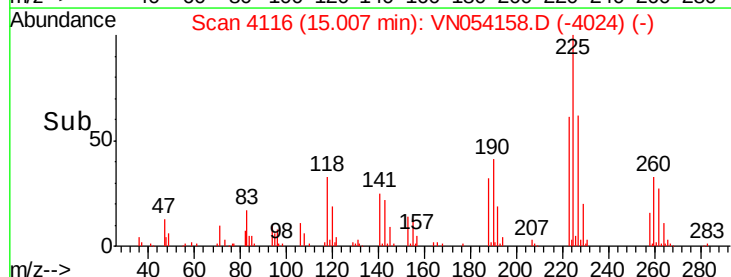
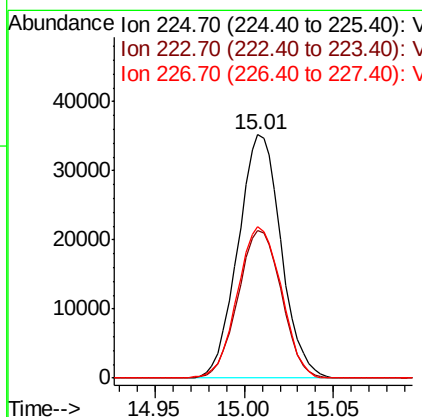
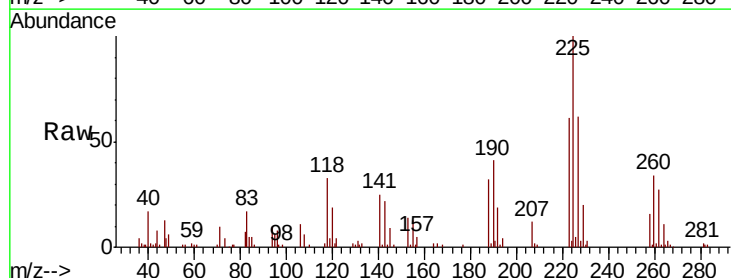
Manual Integrations
 APPROVED

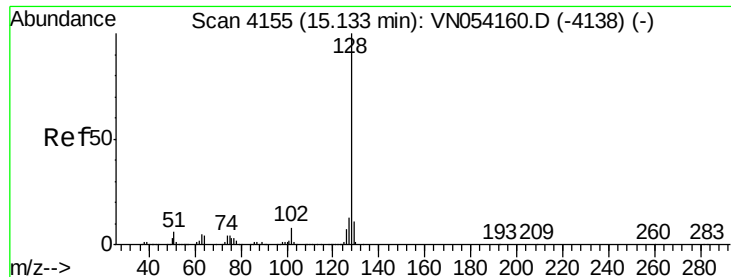
MMDadoda
 3/13/2019 11:49:04 AM



#94
 Hexachlorobutadiene
 Concen: 5.630 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054158.D
 Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	59404		
223	61.2	31.1	93.5	
227	63.4	31.9	95.9	





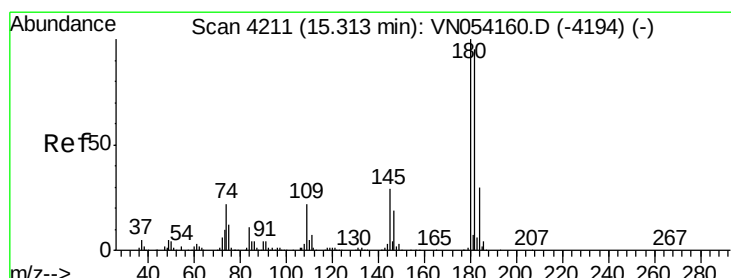
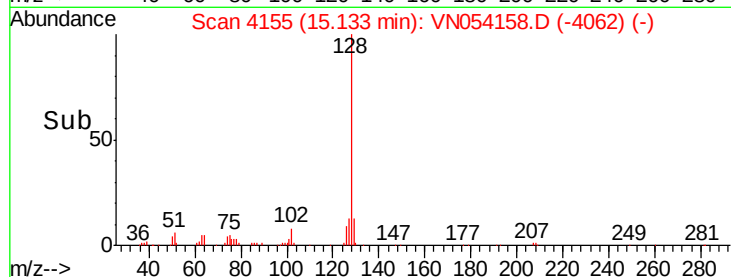
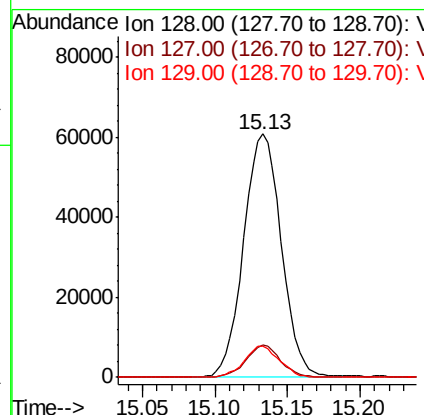
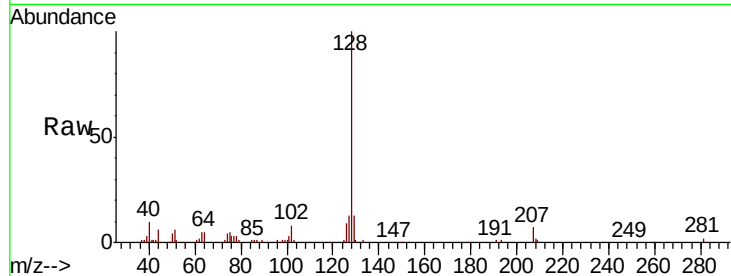
#95
Naphthalene
Concen: 6.412 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	110142		
127	12.1	10.1	15.1	
129	11.9	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
3/13/2019 11:49:04 AM



#96
1,2,3-Trichlorobenzene
Concen: 4.177 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN054158.D
Acq: 12 Mar 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	61472		
182	94.9	47.5	142.6	
145	29.4	14.8	44.3	

