

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111519\
 Data File : VN059262.D
 Acq On : 15 Nov 2019 13:51
 Operator : JC/SP
 Sample : VN1115MBSD01
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1115MBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/18/2019 3:09:41 PM

Quant Time: Nov 16 00:56:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	377728	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	582159	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	527865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	239023	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	225519	48.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.14%	
35) Dibromofluoromethane	7.57	113	183082	52.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.34%	
50) Toluene-d8	10.08	98	684607	50.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.00%	
62) 4-Bromofluorobenzene	12.40	95	244649	49.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	67430	17.718	ug/l	100
3) Chloromethane	2.04	50	94598	18.286	ug/l	99
4) Vinyl Chloride	2.17	62	94683	18.878	ug/l	100
5) Bromomethane	2.55	94	57426	19.896	ug/l	99
6) Chloroethane	2.69	64	57533	19.391	ug/l	97
7) Trichlorofluoromethane	3.00	101	124210	20.704	ug/l	100
8) Diethyl Ether	3.39	74	52482	21.530	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	74312	20.544	ug/l	100
10) Methyl Iodide	3.93	142	89523	19.995	ug/l	100
11) Tert butyl alcohol	4.75	59	87417	98.787	ug/l	99
12) 1,1-Dichloroethene	3.72	96	71789	20.374	ug/l	98
13) Acrolein	3.58	56	28728	62.967	ug/l	97
14) Allyl chloride	4.30	41	145790	20.142	ug/l	96
15) Acrylonitrile	4.95	53	246803	112.070	ug/l	99
16) Acetone	3.79	43	201087	83.280	ug/l	99
17) Carbon Disulfide	4.03	76	187028	17.099	ug/l	99
18) Methyl Acetate	4.30	43	132155	23.059	ug/l	100
19) Methyl tert-butyl Ether	5.01	73	266388	21.959	ug/l	100
20) Methylene Chloride	4.53	84	87702	20.849	ug/l	97
21) trans-1,2-Dichloroethene	5.01	96	78067	20.640	ug/l	97
22) Diisopropyl ether	5.92	45	294728	21.558	ug/l	94
23) Vinyl Acetate	5.87	43	1196603	112.934	ug/l	100
24) 1,1-Dichloroethane	5.82	63	161585	21.161	ug/l	99
25) 2-Butanone	6.81	43	319937	100.537	ug/l	97
26) 2,2-Dichloropropane	6.80	77	136537	20.449	ug/l	99
27) cis-1,2-Dichloroethene	6.80	96	92424	21.063	ug/l	100
28) Bromochloromethane	7.17	49	46653	20.308	ug/l	98
29) Tetrahydrofuran	7.19	42	221640	109.613	ug/l	99
30) Chloroform	7.35	83	160745	21.945	ug/l	100
31) Cyclohexane	7.63	56	134871	18.658	ug/l	97
32) 1,1,1-Trichloroethane	7.55	97	133573	21.690	ug/l	98
36) 1,1-Dichloropropene	7.77	75	111189	20.434	ug/l	100
37) Ethyl Acetate	6.91	43	135451	22.376	ug/l	99
38) Carbon Tetrachloride	7.75	117	111857	20.653	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111519\
 Data File : VN059262.D
 Acq On : 15 Nov 2019 13:51
 Operator : JC/SP
 Sample : VN1115MBSD01
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1115MBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/18/2019 3:09:41 PM

Quant Time: Nov 16 00:56:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	120631	19.101	ug/l	99
40) Benzene	8.02	78	350073	21.364	ug/l	99
41) Methacrylonitrile	7.16	41	59249m	22.508	ug/l	
42) 1,2-Dichloroethane	8.10	62	123694	22.009	ug/l	100
43) Isopropyl Acetate	8.14	43	204937	21.235	ug/l	98
44) Trichloroethene	8.82	130	84983	21.098	ug/l	97
45) 1,2-Dichloropropane	9.10	63	97486	21.903	ug/l	99
46) Dibromomethane	9.19	93	59560	21.475	ug/l	100
47) Bromodichloromethane	9.39	83	122323	22.087	ug/l	99
48) Methyl methacrylate	9.18	41	88372	20.472	ug/l	98
49) 1,4-Dioxane	9.18	88	27413	357.334	ug/l	98
51) 4-Methyl-2-Pentanone	9.97	43	658729	120.632	ug/l	99
52) Toluene	10.15	92	210803	21.464	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	135124	21.118	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	148050	21.510	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	86742	21.823	ug/l	99
56) Ethyl methacrylate	10.42	69	125265	20.060	ug/l	99
57) 1,3-Dichloropropane	10.70	76	151896	22.203	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	238256	107.706	ug/l	99
59) 2-Hexanone	10.74	43	469426	112.000	ug/l	100
60) Dibromochloromethane	10.90	129	89932	21.399	ug/l	98
61) 1,2-Dibromoethane	11.00	107	87676	21.789	ug/l	99
64) Tetrachloroethene	10.62	164	75904	21.147	ug/l	93
65) Chlorobenzene	11.43	112	223847	21.754	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	86790	22.484	ug/l	100
67) Ethyl Benzene	11.51	91	398583	21.832	ug/l	99
68) m/p-Xylenes	11.62	106	293013	42.845	ug/l	99
69) o-Xylene	11.94	106	142087	21.499	ug/l	100
70) Styrene	11.96	104	223849	21.536	ug/l	99
71) Bromoform	12.12	173	66521	22.155	ug/l #	97
73) Isopropylbenzene	12.25	105	384433	22.111	ug/l	100
74) N-amyl acetate	12.07	43	154625	20.988	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	134708	22.751	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	113798m	20.912	ug/l	
77) Bromobenzene	12.53	156	93681	21.446	ug/l	98
78) n-propylbenzene	12.59	91	434996	21.851	ug/l	99
79) 2-Chlorotoluene	12.67	91	268256	21.722	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	326243	22.144	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	43561	21.143	ug/l	98
82) 4-Chlorotoluene	12.77	91	266101	21.483	ug/l	99
83) tert-Butylbenzene	12.99	119	277326	21.798	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	316696	22.219	ug/l	100
85) sec-Butylbenzene	13.17	105	368132	22.248	ug/l	100
86) p-Isopropyltoluene	13.29	119	325895	22.306	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	161770	21.626	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	160011	21.380	ug/l	99
89) n-Butylbenzene	13.62	91	270569	21.159	ug/l	100
90) Hexachloroethane	13.88	117	61731	21.042	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	161016	21.882	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	25084	21.250	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111519\
 Data File : VN059262.D
 Acq On : 15 Nov 2019 13:51
 Operator : JC/SP
 Sample : VN1115MBSD01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115MBSD01

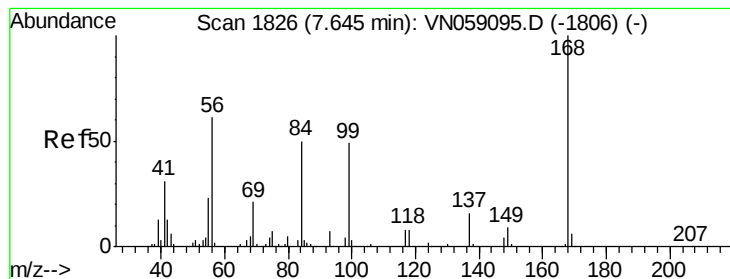
Manual Integrations
 APPROVED

MMDadoda
 11/18/2019 3:09:41 PM

Quant Time: Nov 16 00:56:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	82086	20.313	ug/l	99
94) Hexachlorobutadiene	15.01	225	56552	22.289	ug/l	98
95) Naphthalene	15.13	128	220302	19.748	ug/l	99
96) 1,2,3-Trichlorobenzene	15.29	180	85418	20.714	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion:168 Resp: 377728

Ion Ratio Lower Upper

168 100

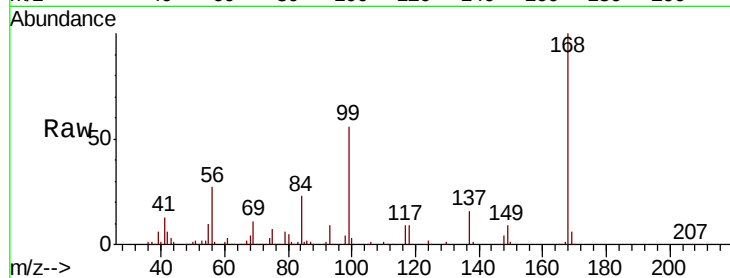
99 55.4 45.7 68.5

Manual Integrations

APPROVED

MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

150000

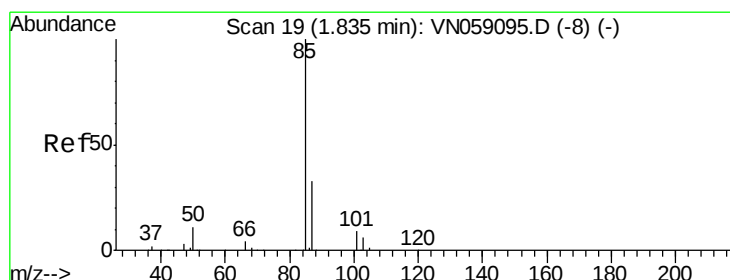
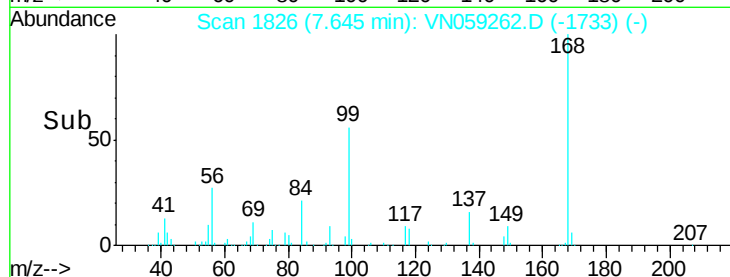
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 17.718 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059262.D

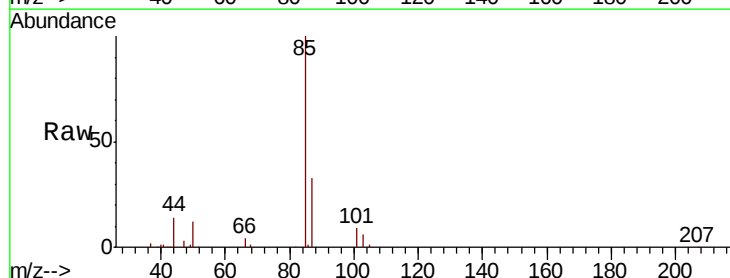
Acq: 15 Nov 2019 13:51

Tgt Ion: 85 Resp: 67430

Ion Ratio Lower Upper

85 100

87 32.6 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

50000

40000

30000

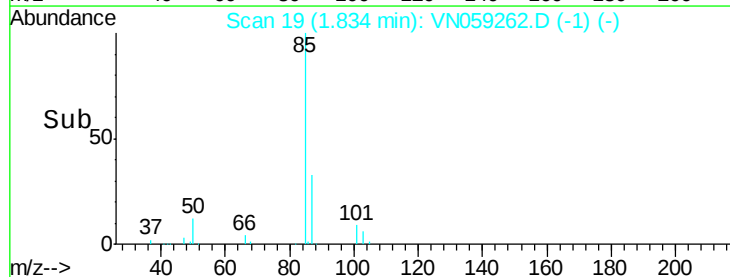
20000

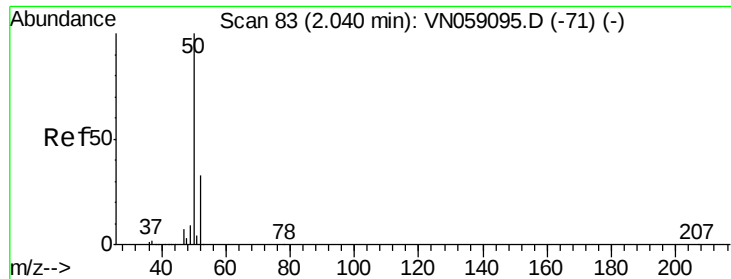
10000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.286 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 50 Resp: 94598

Ion Ratio Lower Upper

50 100

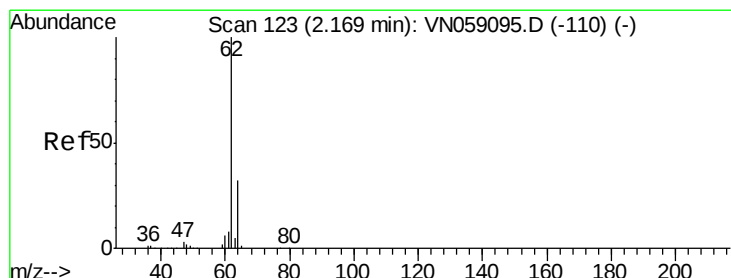
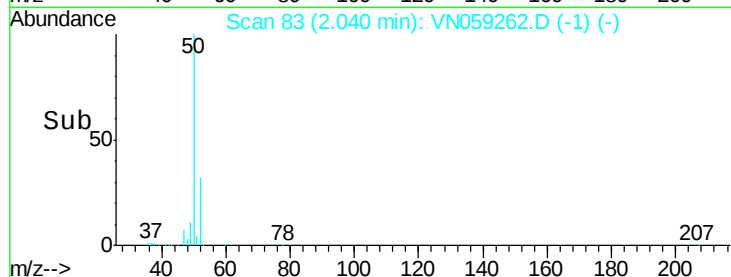
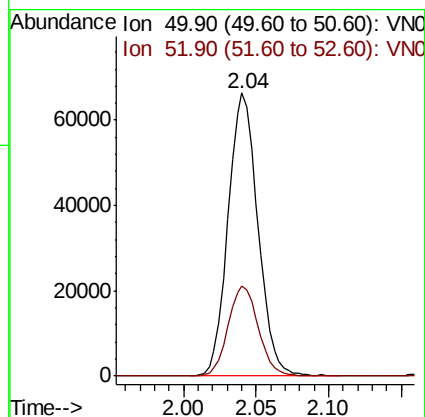
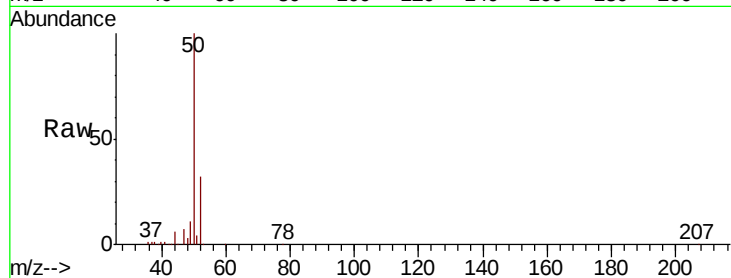
52 31.9 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

11/18/2019 3:09:41 PM



#4

Vinyl Chloride

Concen: 18.878 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059262.D

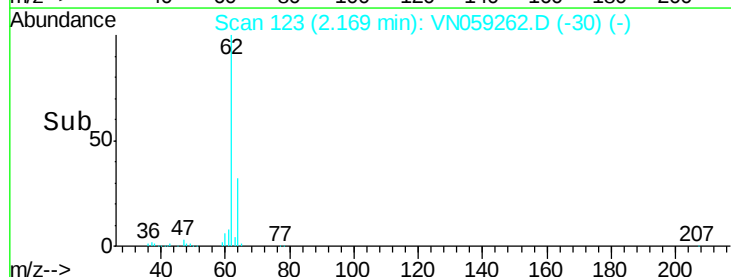
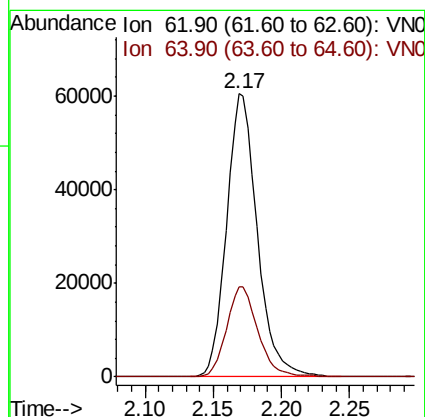
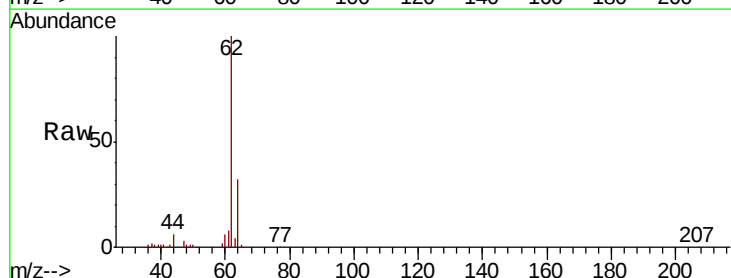
Acq: 15 Nov 2019 13:51

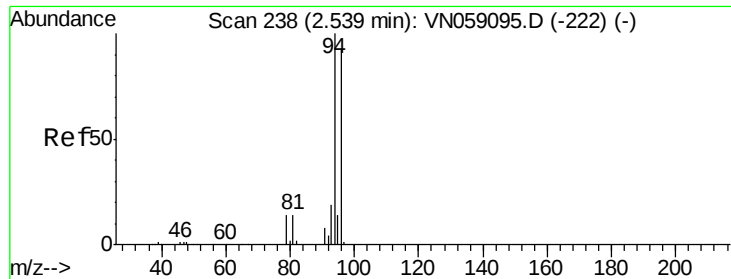
Tgt Ion: 62 Resp: 94683

Ion Ratio Lower Upper

62 100

64 32.0 25.4 38.2





#5

Bromomethane

Concen: 19.896 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 94 Resp: 57426

Ion Ratio Lower Upper

94 100

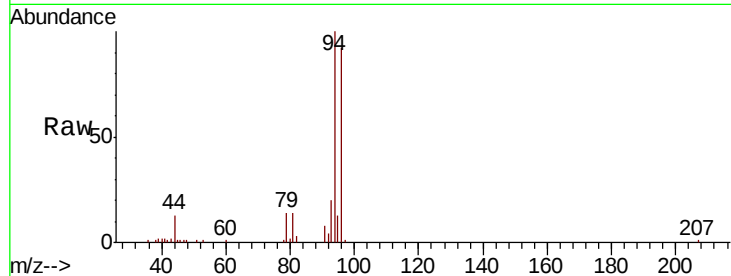
96 91.8 74.2 111.2

Manual Integrations

APPROVED

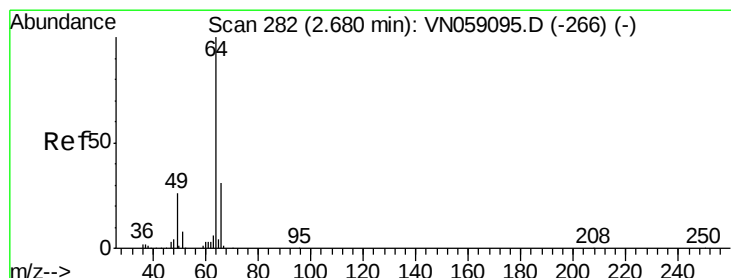
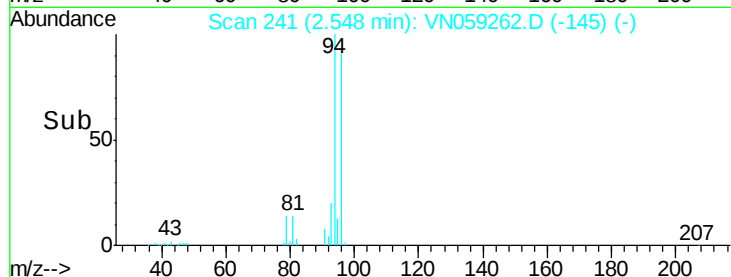
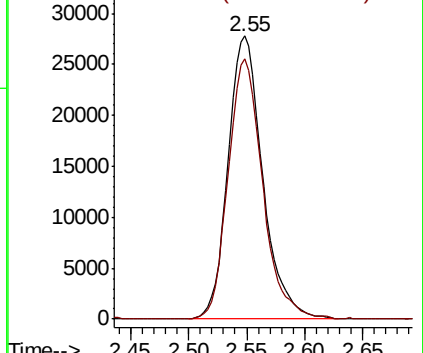
MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 19.391 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.01 min

Lab File: VN059262.D

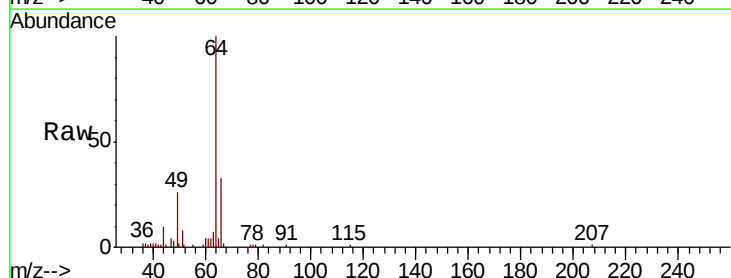
Acq: 15 Nov 2019 13:51

Tgt Ion: 64 Resp: 57533

Ion Ratio Lower Upper

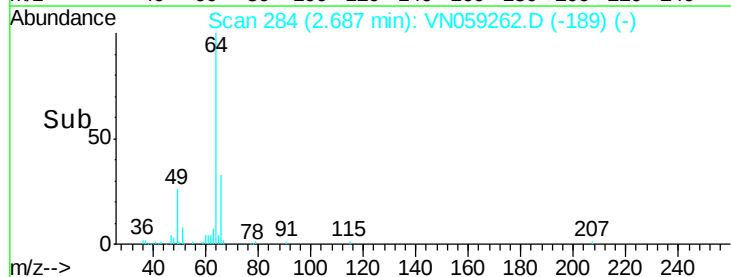
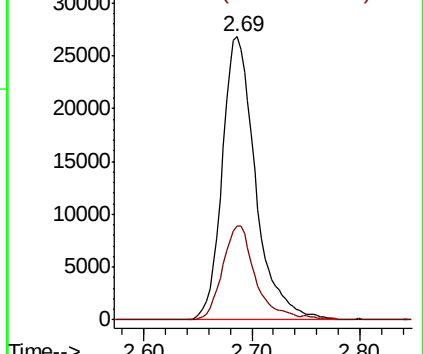
64 100

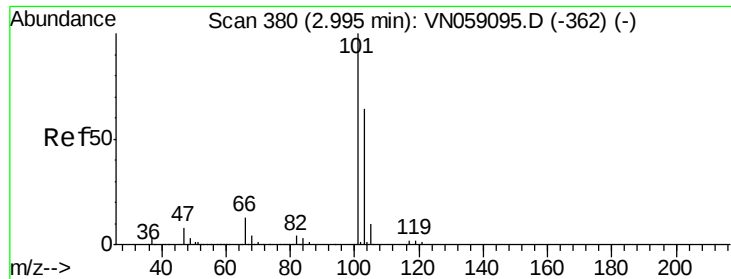
66 33.2 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

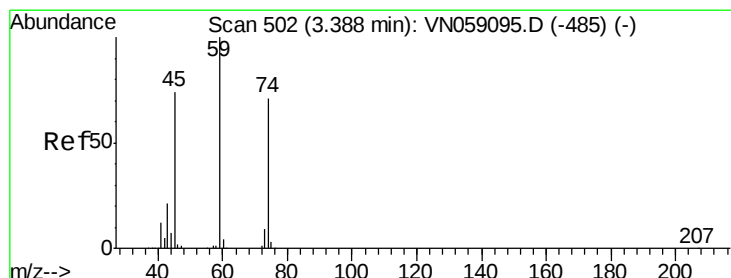
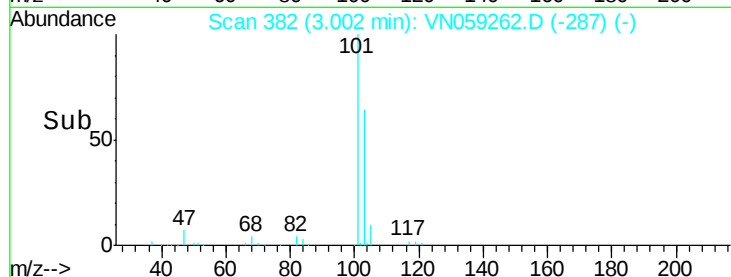
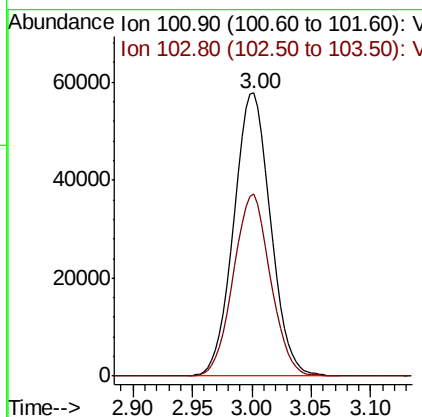
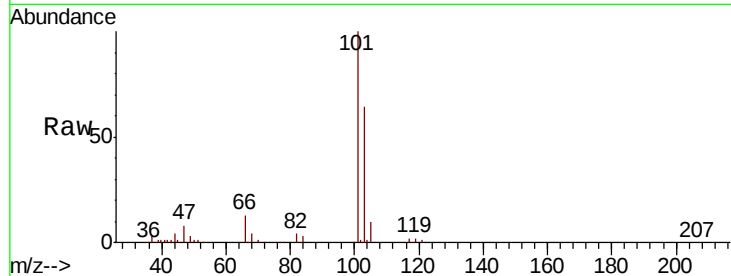
Trichlorofluoromethane
 Concen: 20.704 ug/l
 RT: 3.00 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.2	76.8

Manual Integrations
 APPROVED

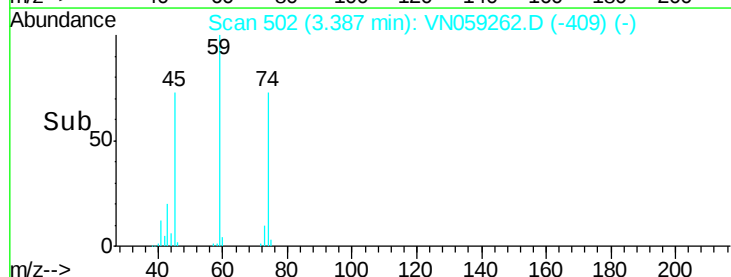
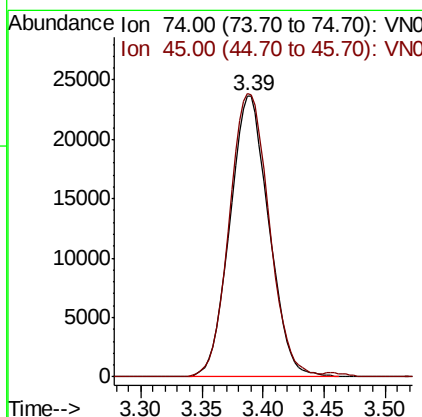
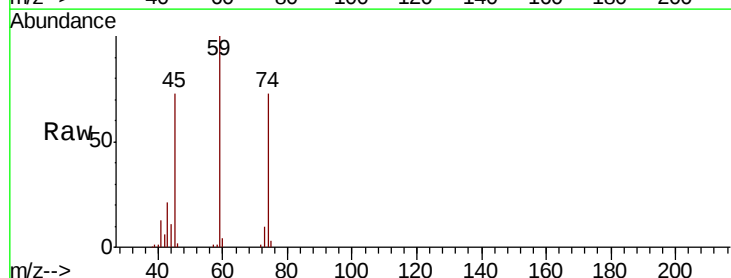
MMDadoda
 11/18/2019 3:09:41 PM

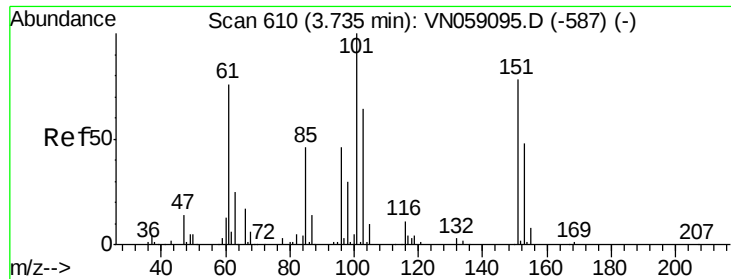


#8

Diethyl Ether
 Concen: 21.530 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.0	51.6	154.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.544 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

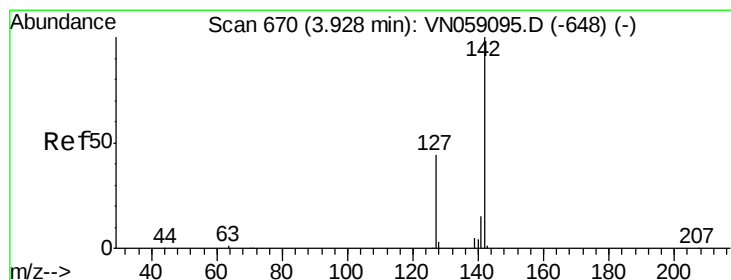
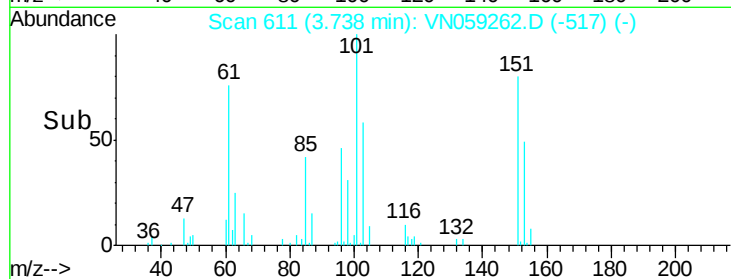
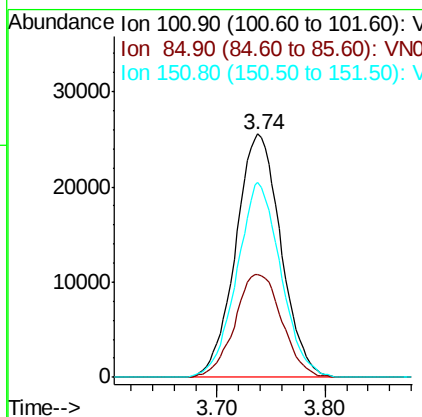
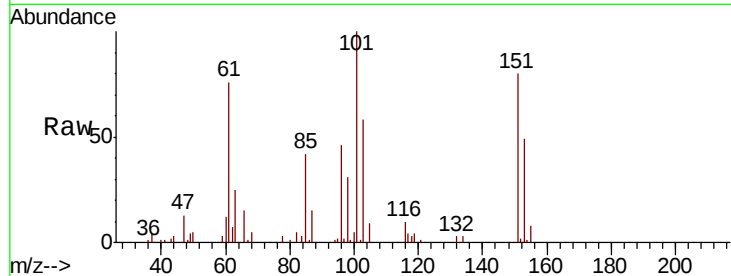
ClientSampleId :

VN1115MBSD01

Tot Ion:	101	Resp:	74312
Ion Ratio	Lower	Upper	
101	100		
85	44.1	35.5	53.3
151	78.0	62.2	93.2

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#10

Methyl Iodide

Concen: 19.995 ug/l

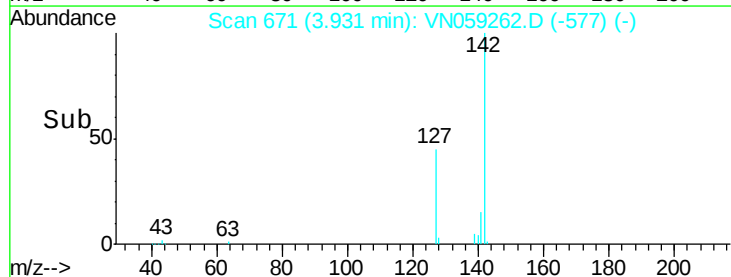
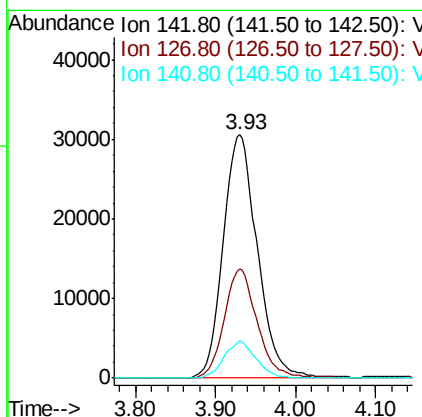
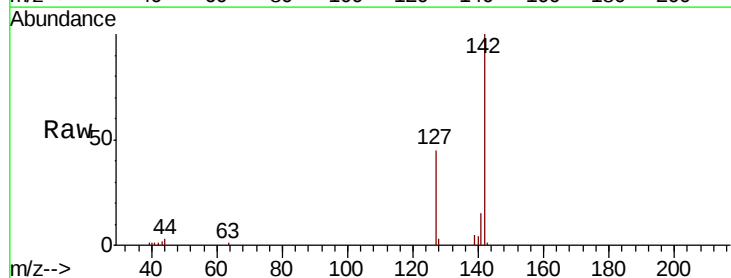
RT: 3.93 min Scan# 671

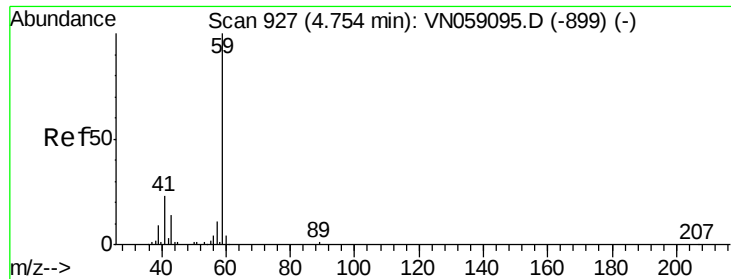
Delta R.T. 0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion:	142	Resp:	89523
Ion Ratio	Lower	Upper	
142	100		
127	42.9	34.2	51.2
141	14.0	11.4	17.0





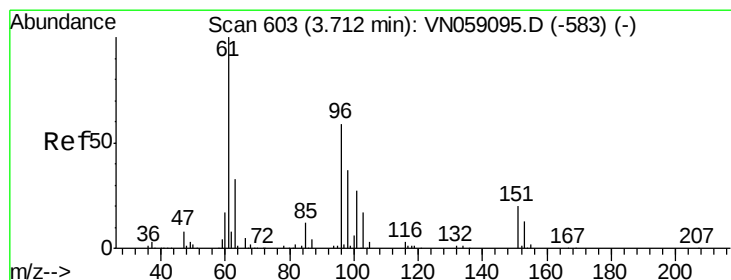
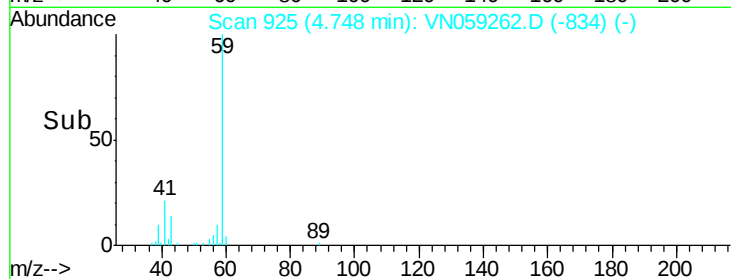
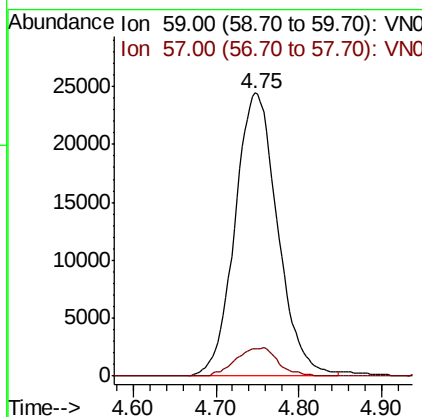
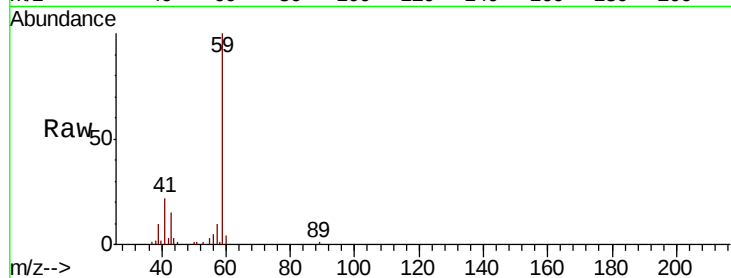
#11
Tert butyl alcohol
Concen: 98.787 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.01 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.3	12.5

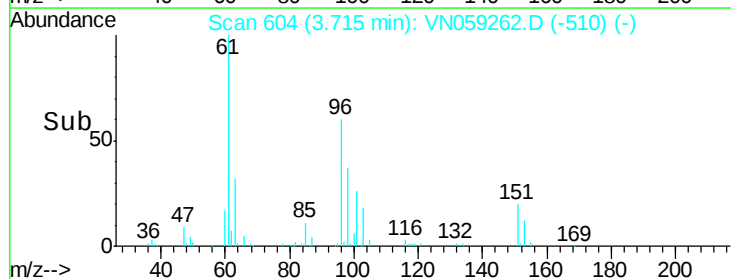
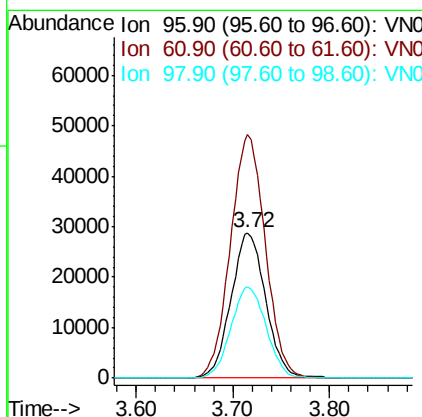
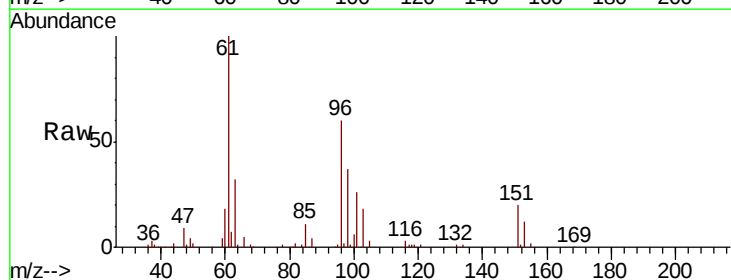
Manual Integrations
APPROVED

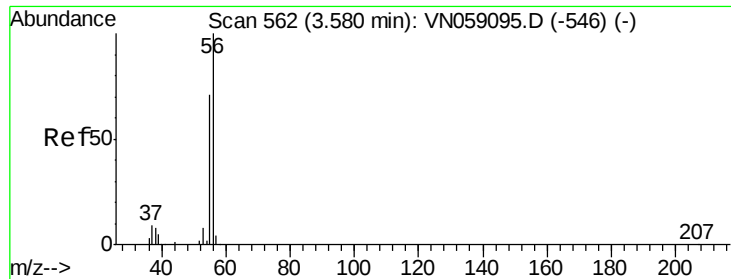
MMDadoda
11/18/2019 3:09:41 PM



#12
1,1-Dichloroethene
Concen: 20.374 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.3	136.5	204.7
98	62.4	50.2	75.4





#13

Acrolein

Concen: 62.967 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 56 Resp: 28728

Ion Ratio Lower Upper

56 100

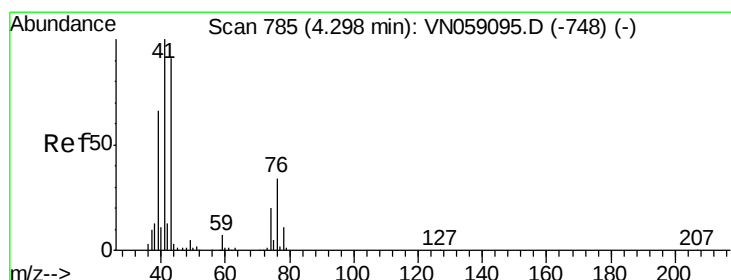
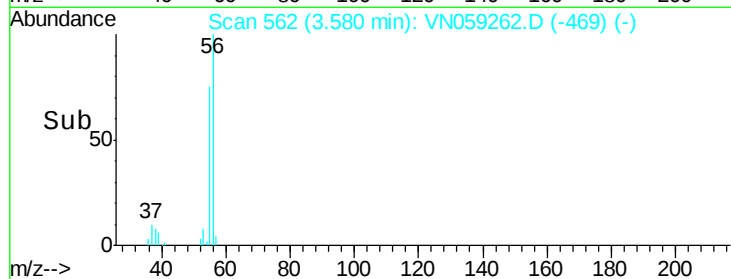
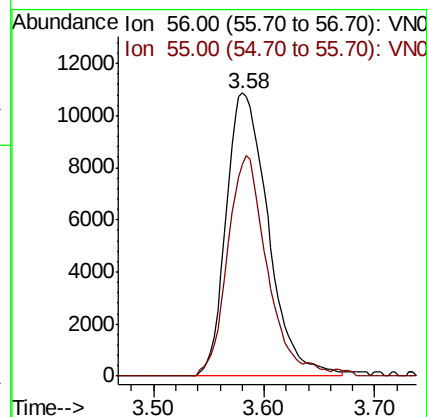
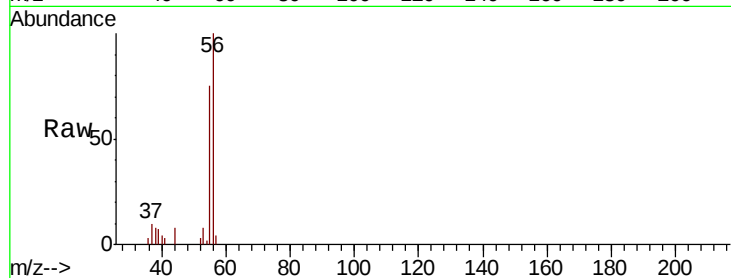
55 73.3 56.4 84.6

Manual Integrations

APPROVED

MMDadoda

11/18/2019 3:09:41 PM



#14

Allyl chloride

Concen: 20.142 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

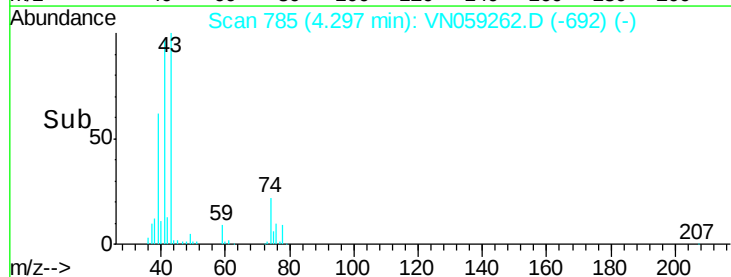
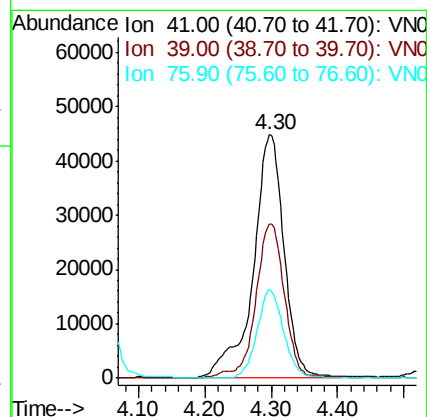
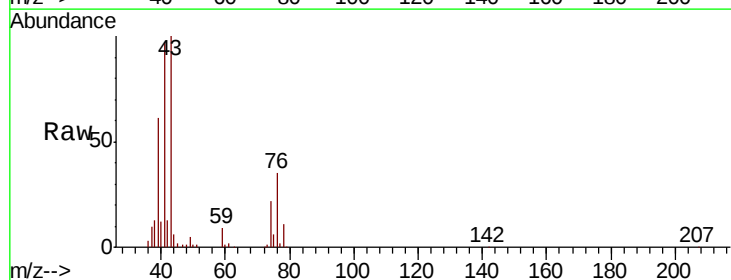
Tgt Ion: 41 Resp: 145790

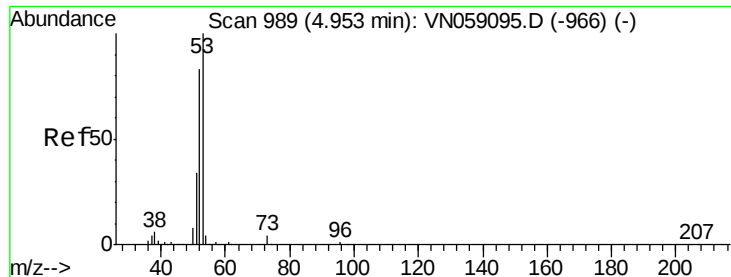
Ion Ratio Lower Upper

41 100

39 56.5 49.1 73.7

76 30.9 24.9 37.3





#15

Acrylonitrile

Concen: 112.070 ug/l

RT: 4.95 min Scan# 989

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

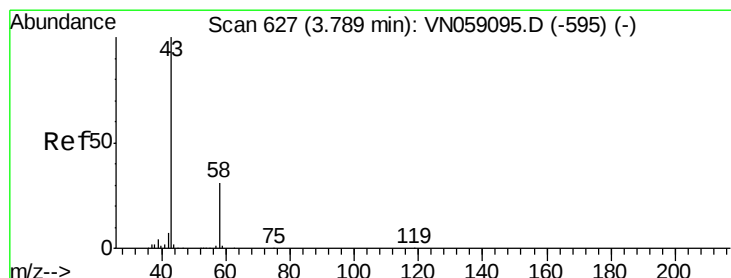
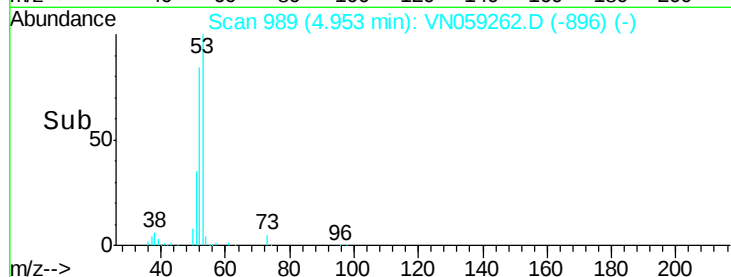
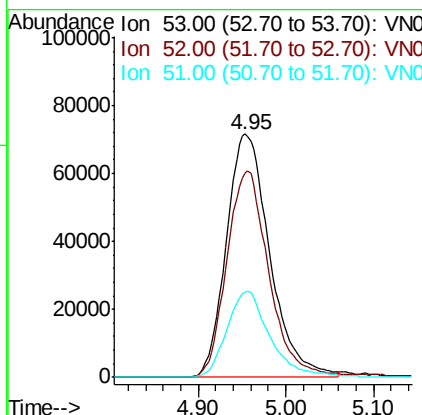
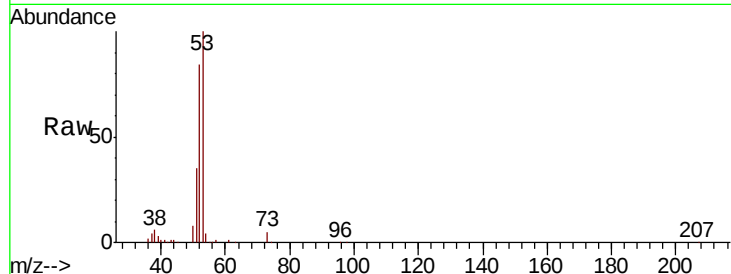
ClientSampleId :

VN1115MBSD01

Tot Ion:	53	Resp:	246803
Ion Ratio	Lower	Upper	
53	100		
52	82.1	65.0	97.6
51	35.0	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#16

Acetone

Concen: 83.280 ug/l

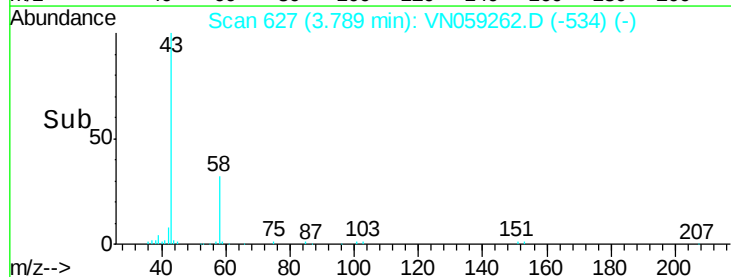
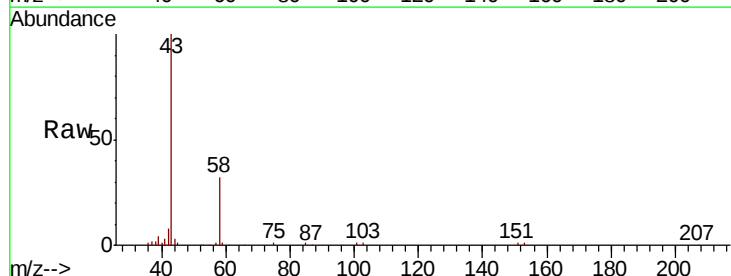
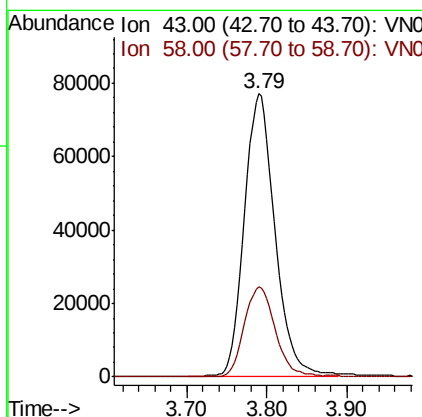
RT: 3.79 min Scan# 627

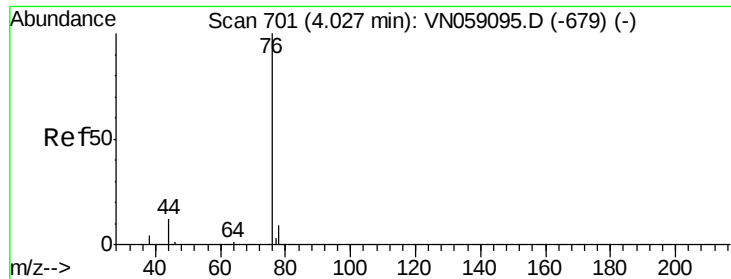
Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion:	43	Resp:	201087
Ion Ratio	Lower	Upper	
43	100		
58	31.8	24.9	37.3





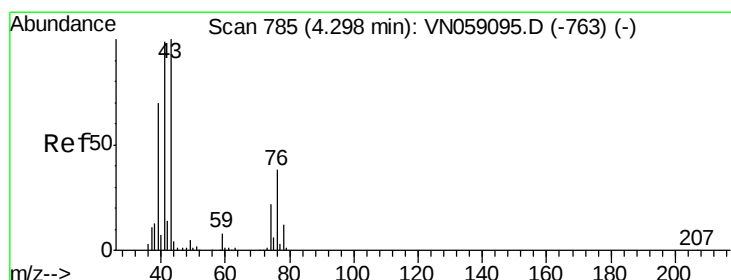
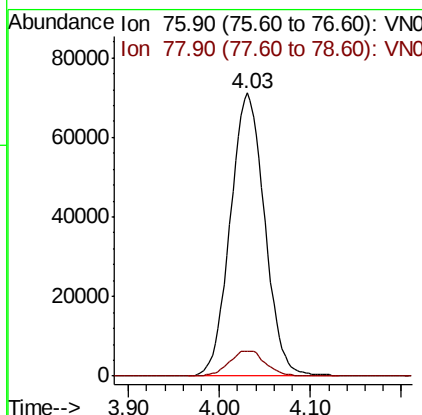
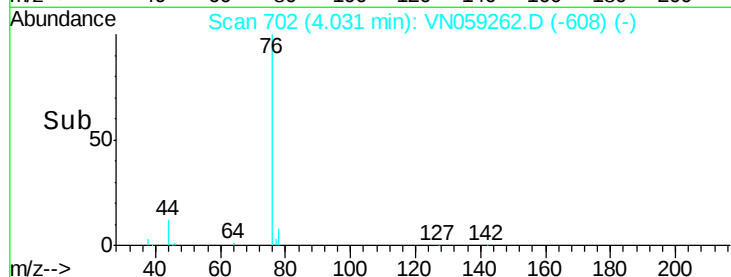
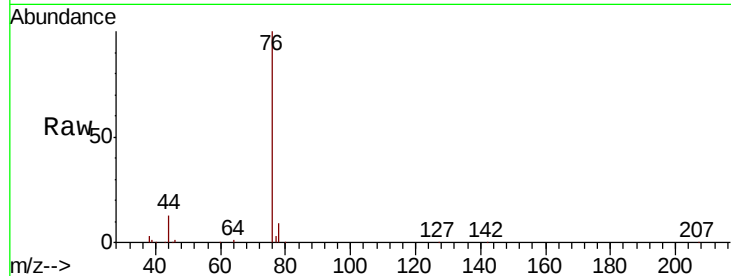
#17
Carbon Disulfide
Concen: 17.099 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion: 76 Resp: 187028
Ion Ratio Lower Upper
76 100
78 8.7 7.4 11.0

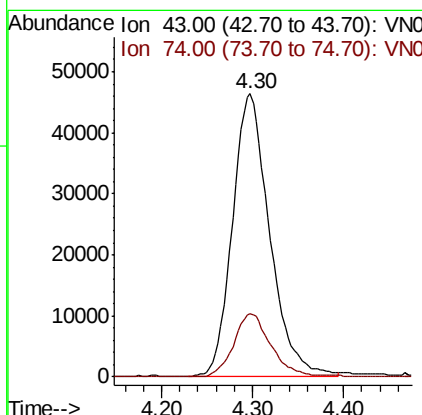
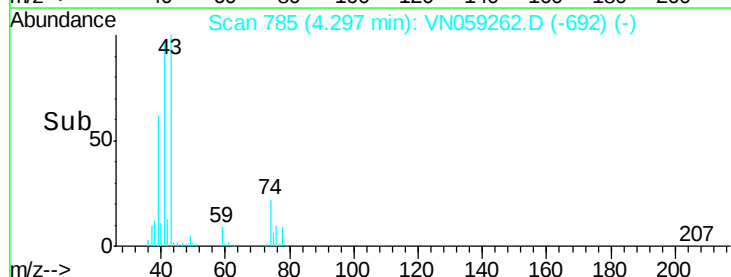
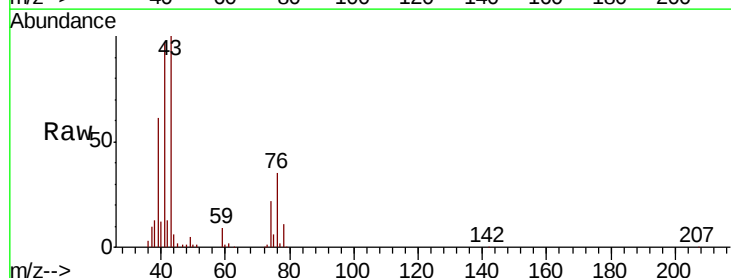
Manual Integrations
APPROVED

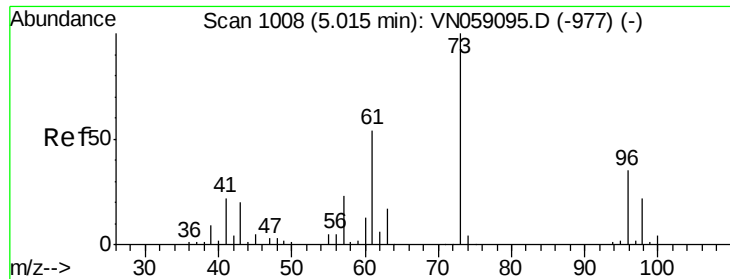
MMDadoda
11/18/2019 3:09:41 PM



#18
Methyl Acetate
Concen: 23.059 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion: 43 Resp: 132155
Ion Ratio Lower Upper
43 100
74 22.3 17.8 26.8





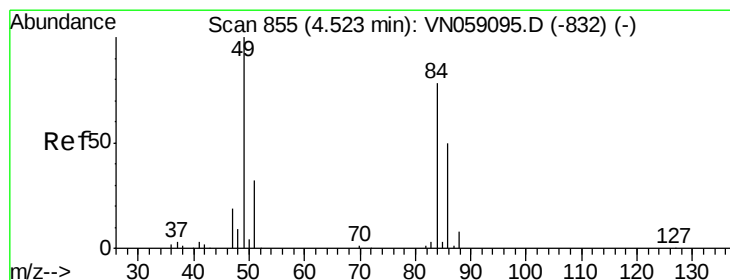
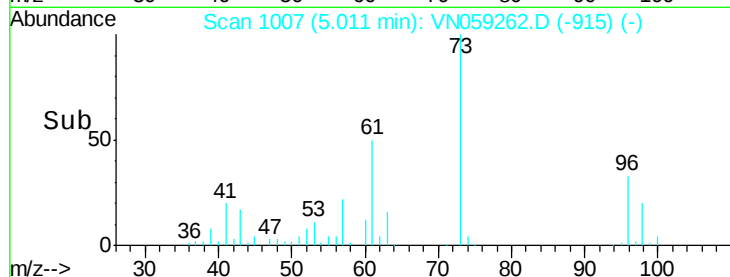
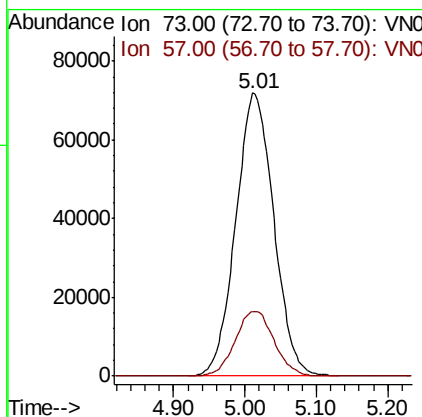
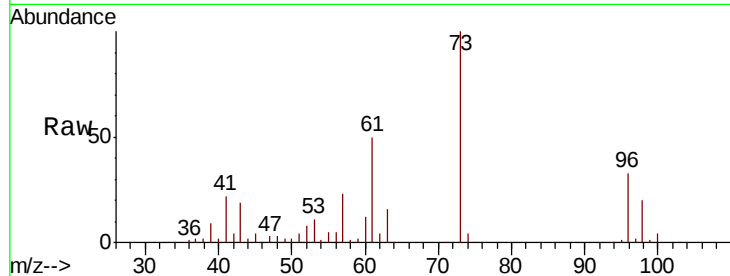
#19
Methvl tert-butvl Ether
Concen: 21.959 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion: 73 Resp: 266388
Ion Ratio Lower Upper
73 100
57 22.9 18.4 27.6

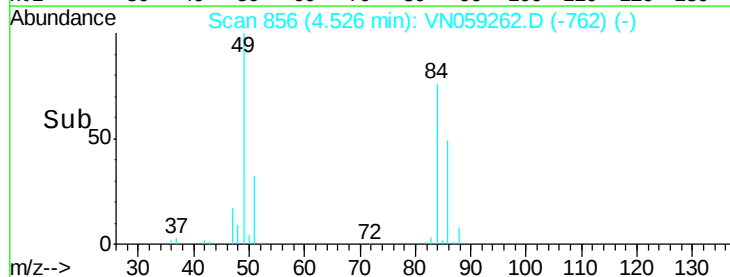
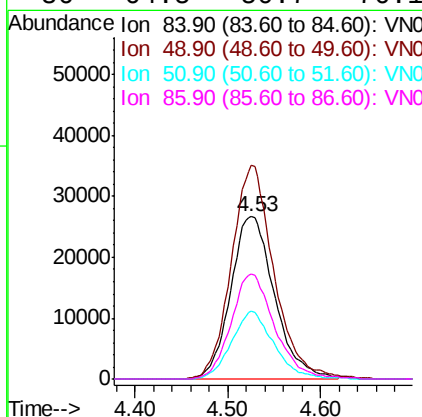
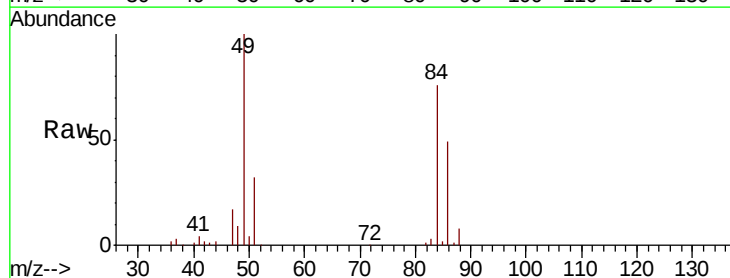
Manual Integrations
APPROVED

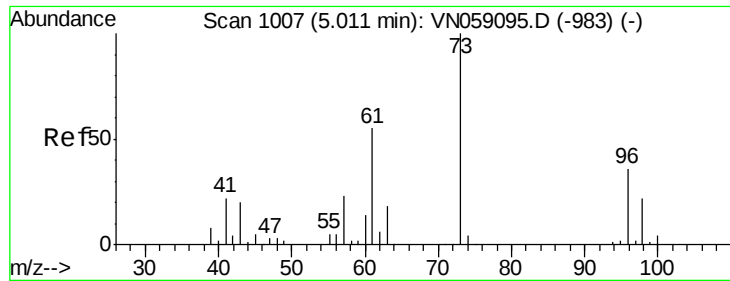
MMDadoda
11/18/2019 3:09:41 PM



#20
Methylene Chloride
Concen: 20.849 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion: 84 Resp: 87702
Ion Ratio Lower Upper
84 100
49 131.1 102.0 153.0
51 41.8 32.2 48.2
86 64.5 50.7 76.1





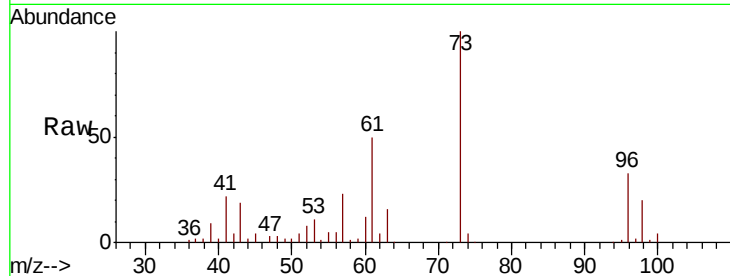
#21
trans-1,2-Dichloroethene
Concen: 20.640 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	149.1	122.6	183.8
98	60.6	50.3	75.5

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM

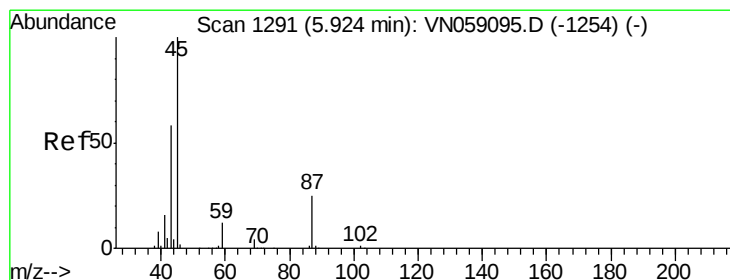
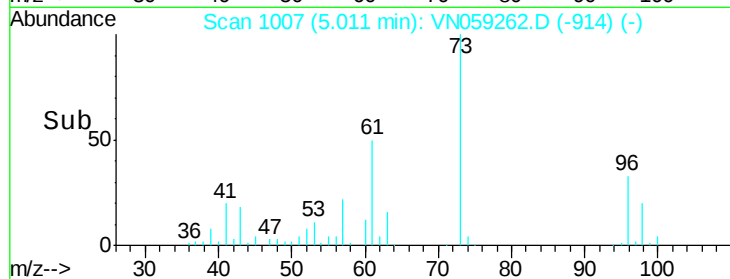
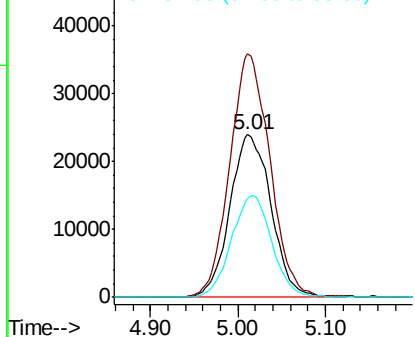


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22
Diisopropyl ether
Concen: 21.558 ug/l
RT: 5.92 min Scan# 1290
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.4	46.7	70.1
87	26.7	20.5	30.7
59	11.3	9.6	14.4

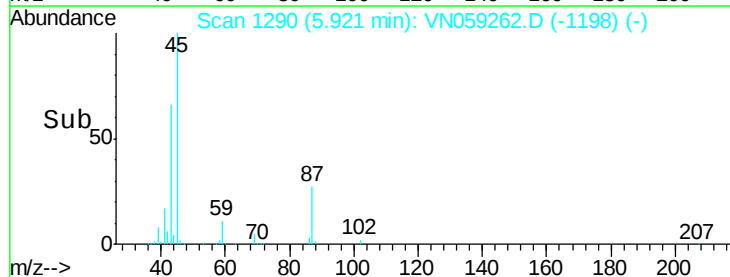
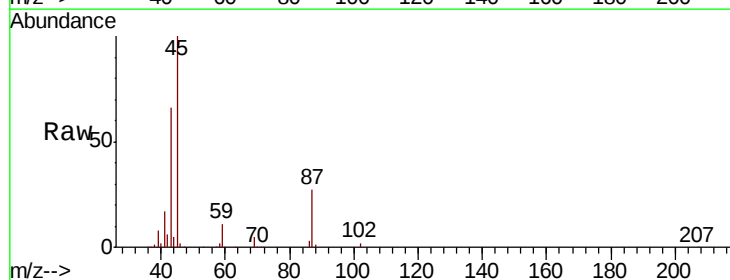
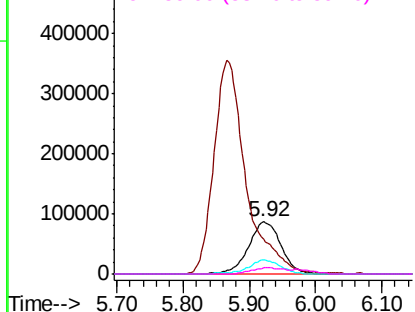
Abundance

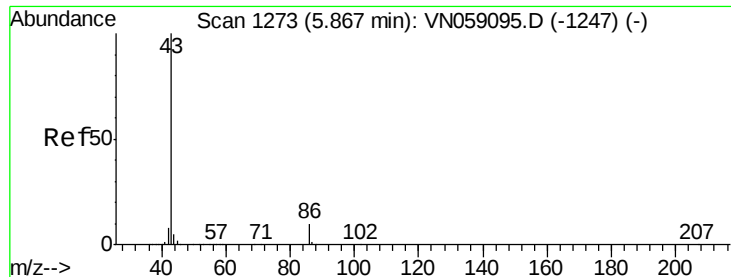
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 112.934 ug/l

RT: 5.87 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 43 Resp: 1196603

Ion Ratio Lower Upper

43 100

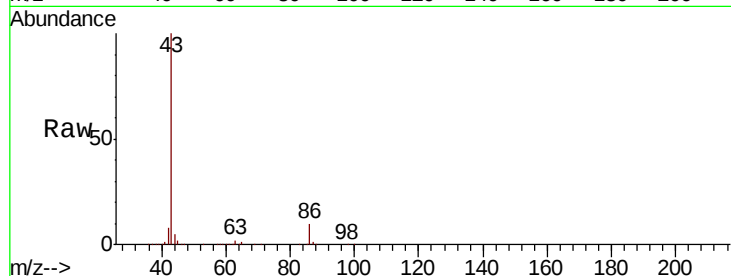
86 9.5 7.7 11.5

Manual Integrations

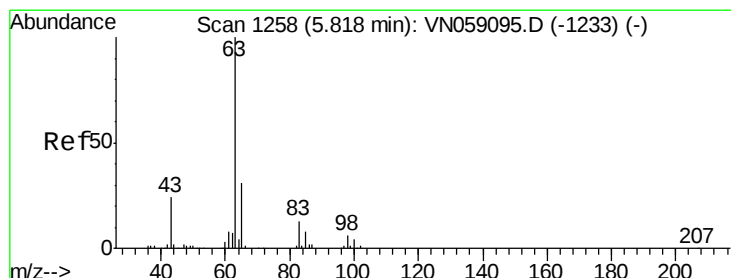
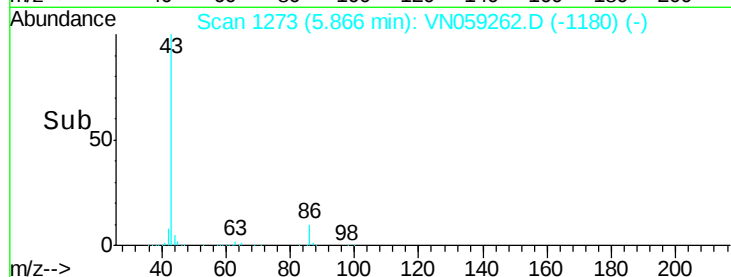
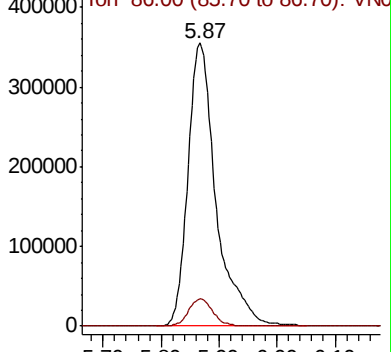
APPROVED

MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 43.00 (42.70 to 43.70): VN059262.D (-1180) (-)



#24

1,1-Dichloroethane

Concen: 21.161 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

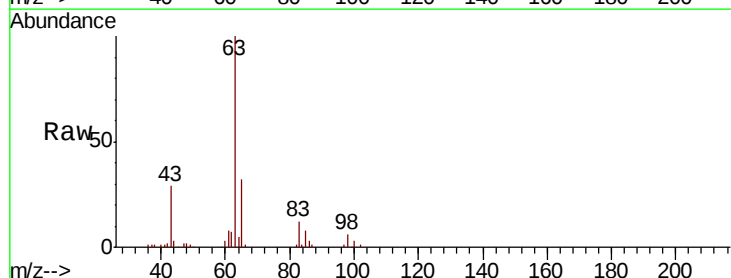
Tgt Ion: 63 Resp: 161585

Ion Ratio Lower Upper

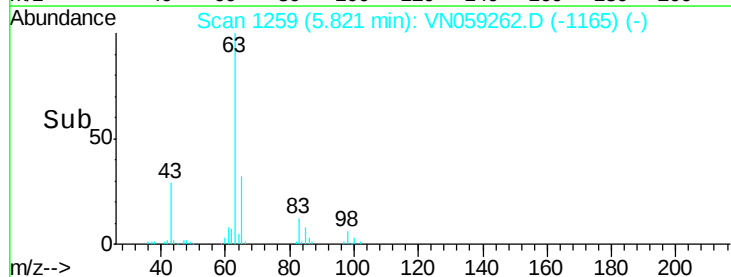
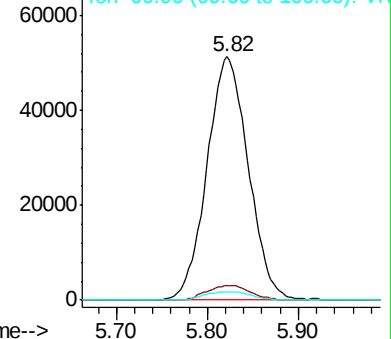
63 100

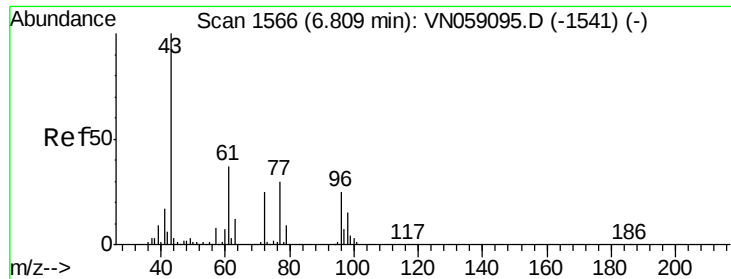
98 6.0 2.8 8.4

100 3.5 1.9 5.7



Abundance Ion 62.90 (62.60 to 63.60): VN059262.D (-1165) (-)





#25

2-Butanone

Concen: 100.537 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 43 Resp: 319937

Ion Ratio Lower Upper

43 100

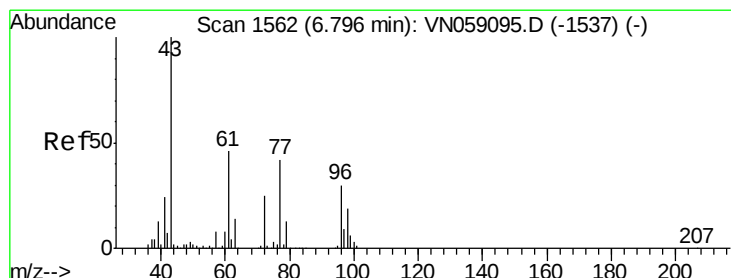
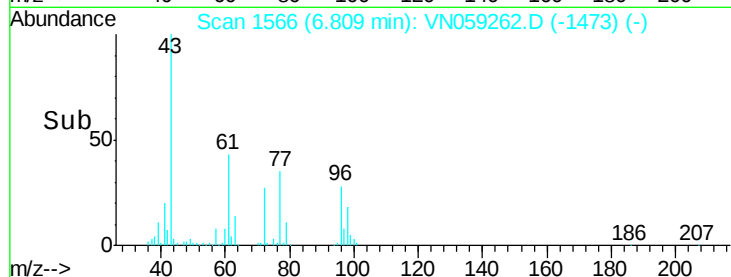
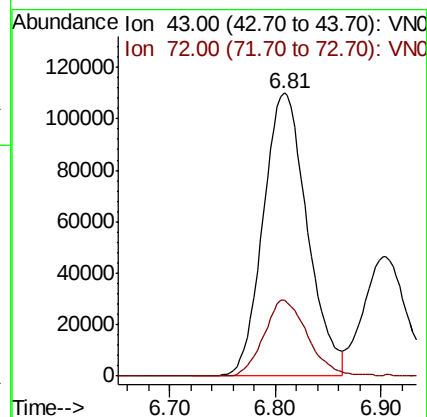
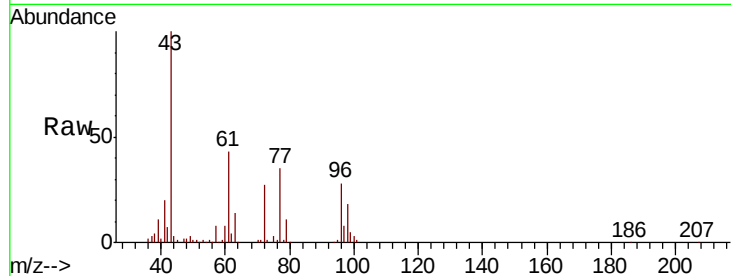
72 27.1 20.3 30.5

Manual Integrations

APPROVED

MMDadoda

11/18/2019 3:09:41 PM



#26

2,2-Dichloropropane

Concen: 20.449 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VN059262.D

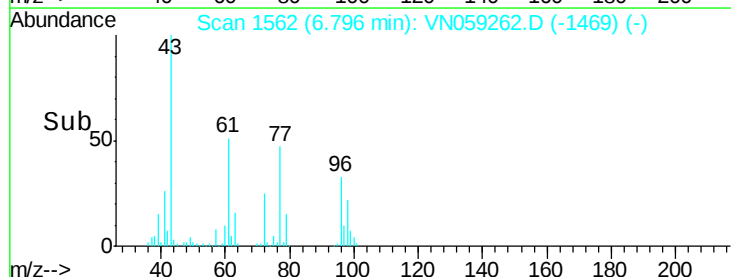
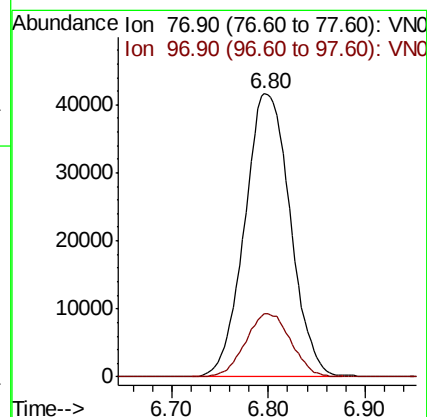
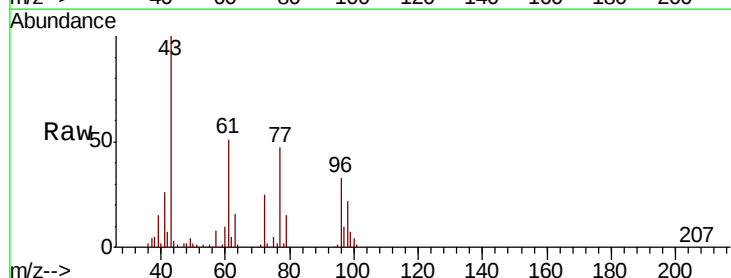
Acq: 15 Nov 2019 13:51

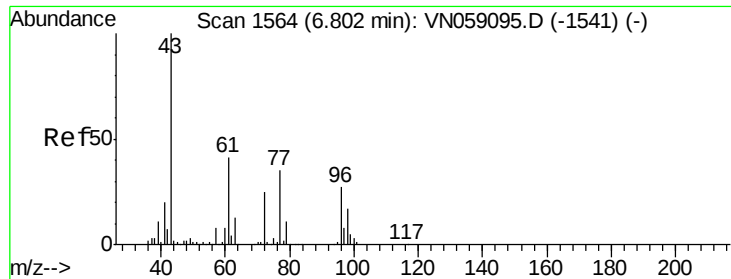
Tgt Ion: 77 Resp: 136537

Ion Ratio Lower Upper

77 100

97 22.1 11.2 33.6





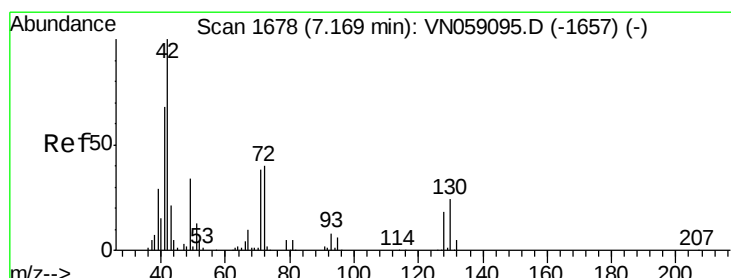
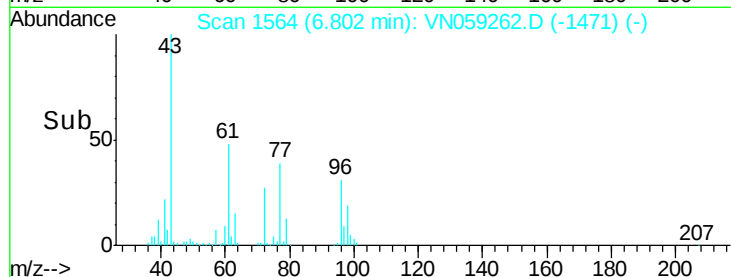
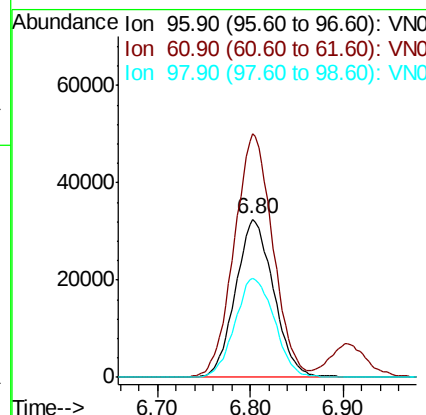
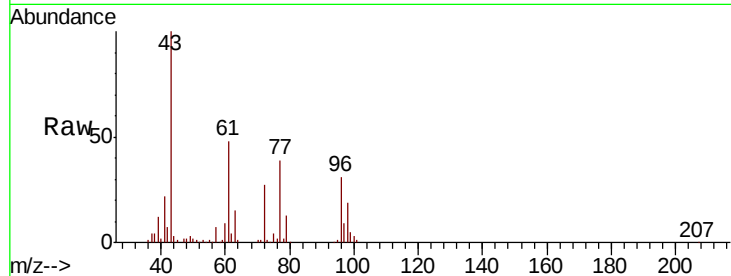
#27
 cis-1,2-Dichloroethene
 Concen: 21.063 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	156.3	0.0	311.6
98	64.9	0.0	129.8

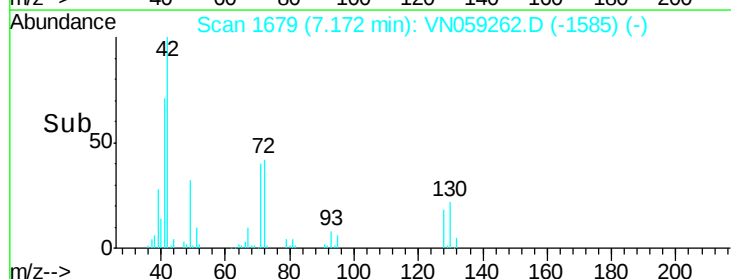
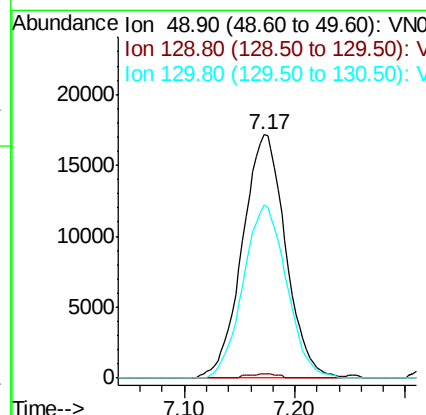
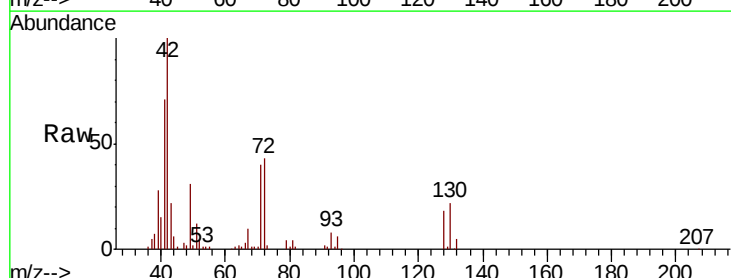
Manual Integrations
 APPROVED

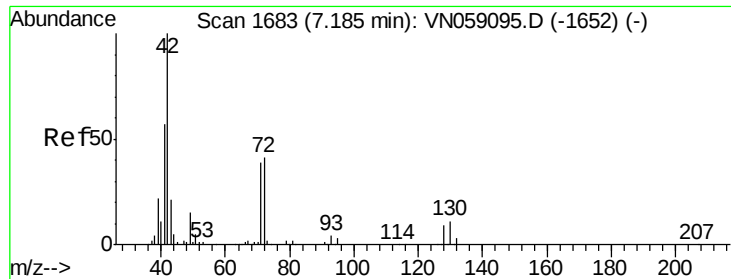
MMDadoda
 11/18/2019 3:09:41 PM



#28
 Bromochloromethane
 Concen: 20.308 ug/l
 RT: 7.17 min Scan# 1679
 Delta R.T. 0.00 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	3.8
130	71.1	55.6	83.4





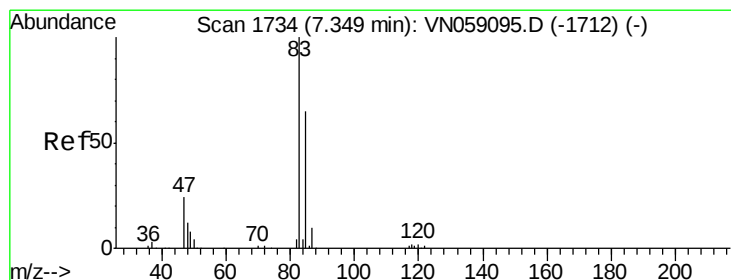
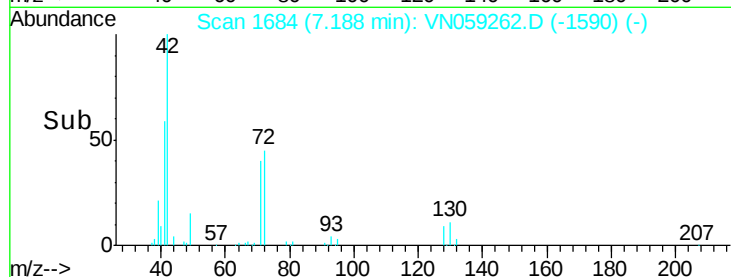
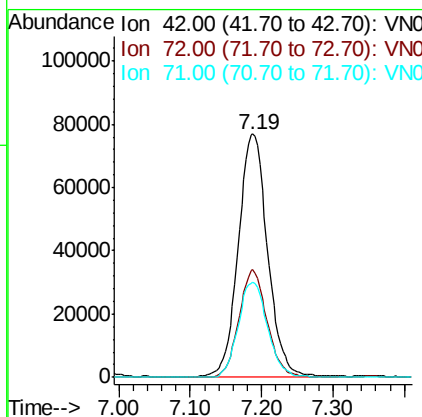
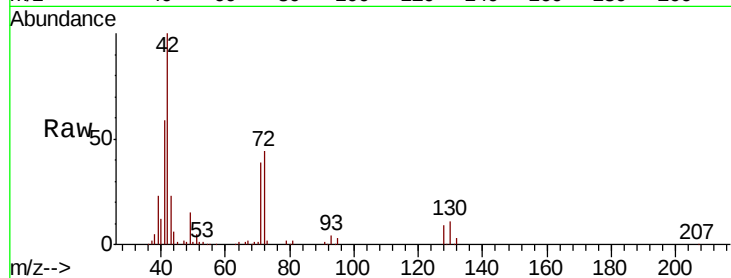
#29
Tetrahydrofuran
Concen: 109.613 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.1	49.7
71	39.0	30.9	46.3

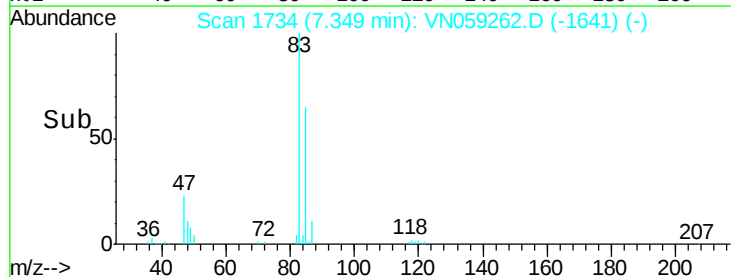
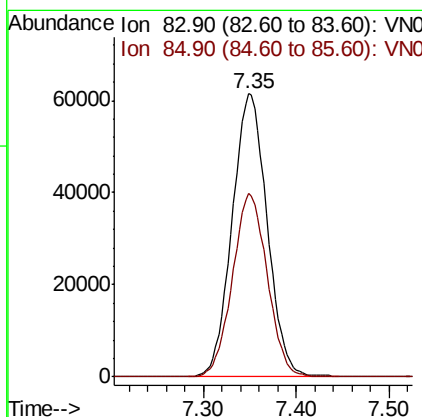
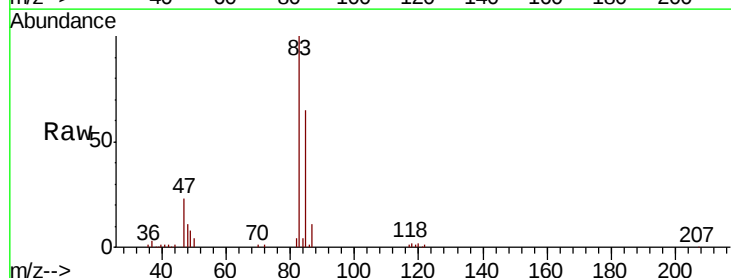
Manual Integrations
APPROVED

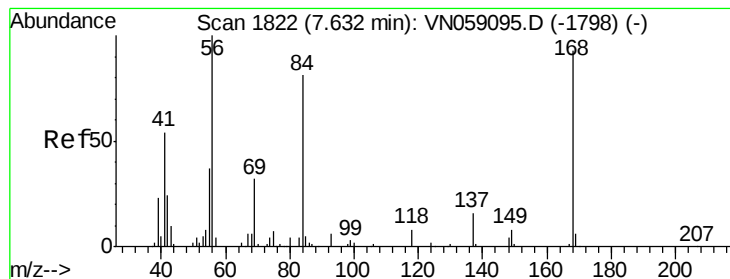
MMDadoda
11/18/2019 3:09:41 PM



#30
Chloroform
Concen: 21.945 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.8





#31

Cyclohexane

Concen: 18.658 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 56 Resp: 134871

Ion Ratio Lower Upper

56 100

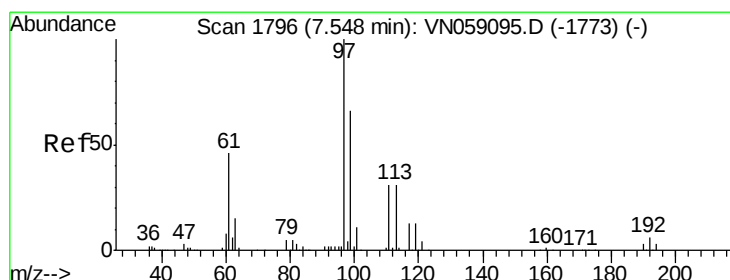
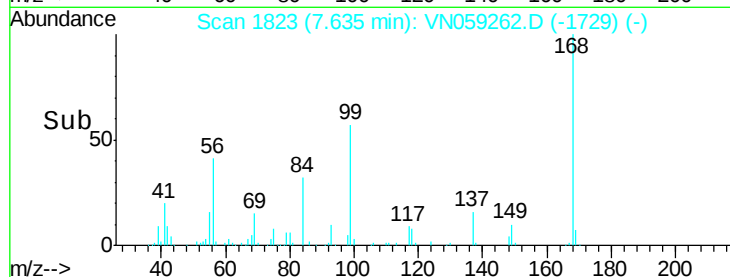
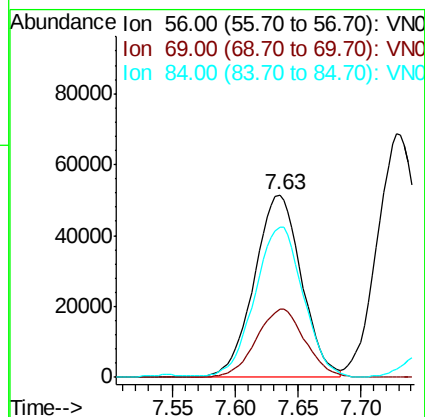
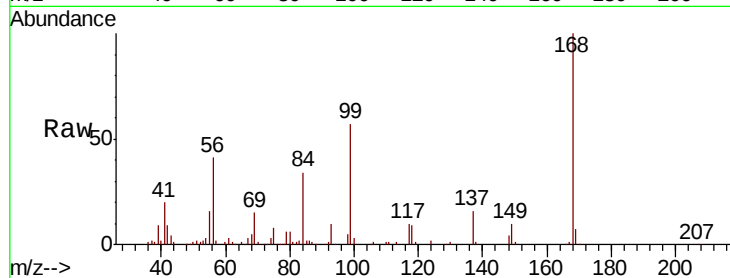
69 37.3 25.8 38.8

84 80.9 65.0 97.4

Manual Integrations
APPROVED

MMDadoda

11/18/2019 3:09:41 PM



#32

1,1,1-Trichloroethane

Concen: 21.690 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

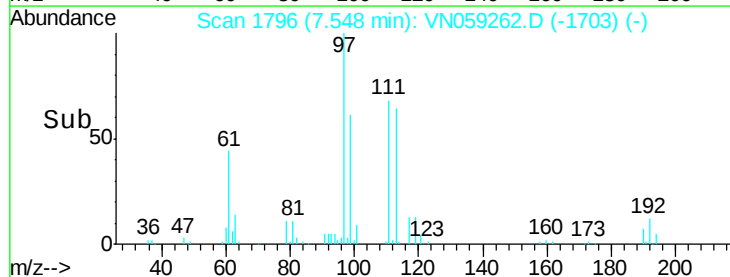
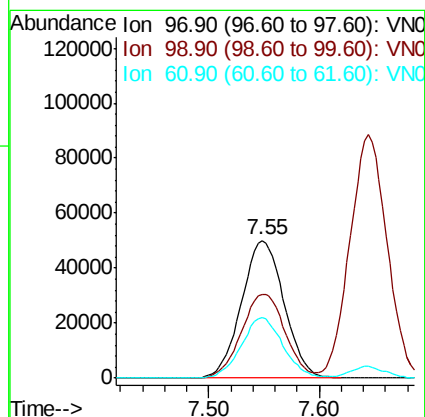
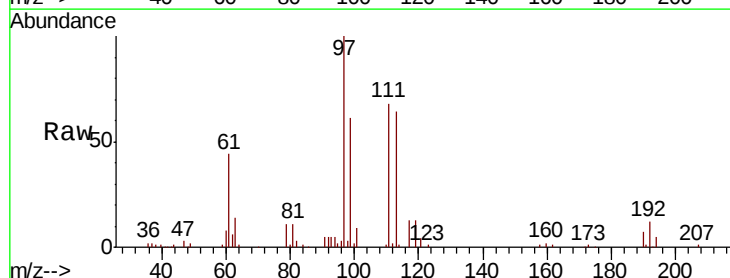
Tgt Ion: 97 Resp: 133573

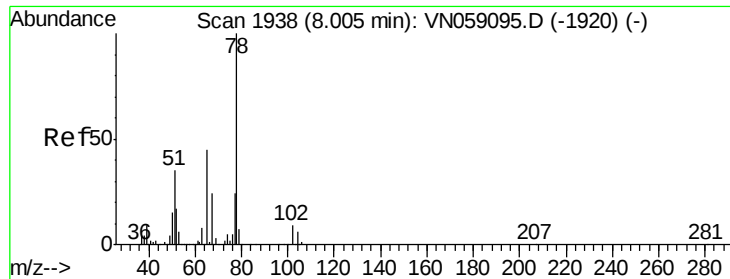
Ion Ratio Lower Upper

97 100

99 62.4 51.0 76.6

61 43.3 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 48.569 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 65 Resp: 225519

Ion Ratio Lower Upper

65 100

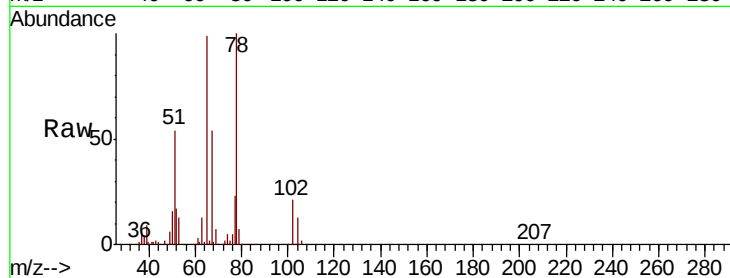
67 54.7 0.0 107.4

Manual Integrations

APPROVED

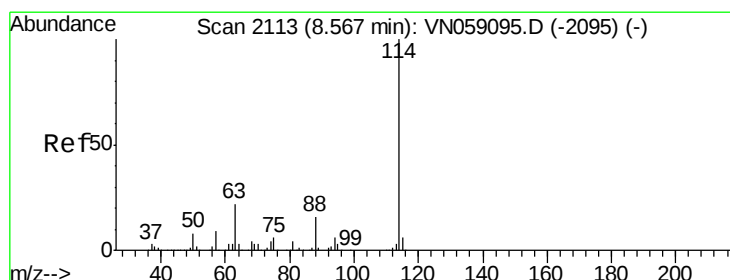
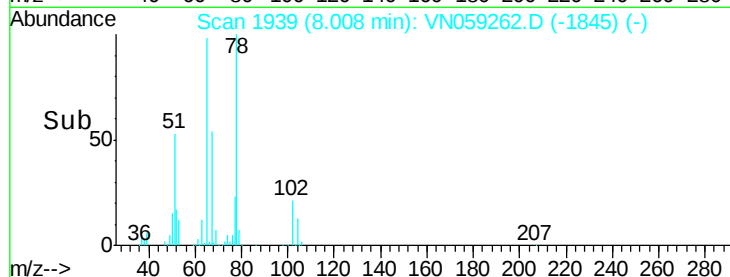
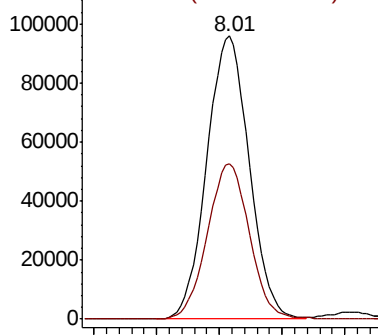
MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

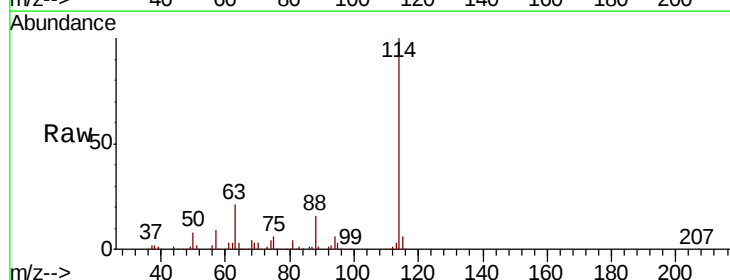
Tgt Ion:114 Resp: 582159

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.4

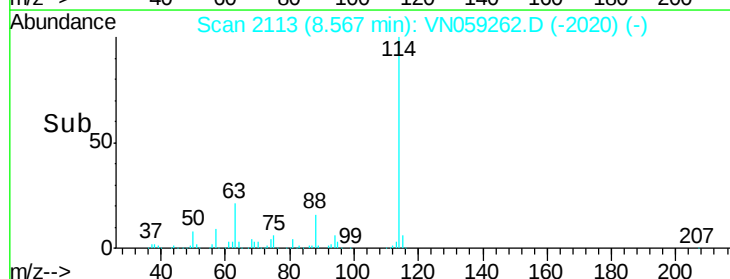
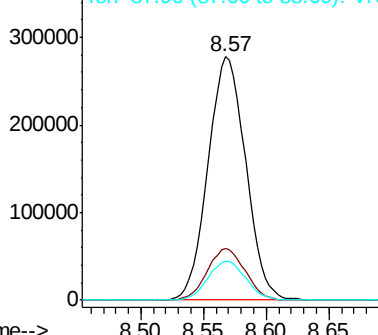
88 16.0 0.0 32.2

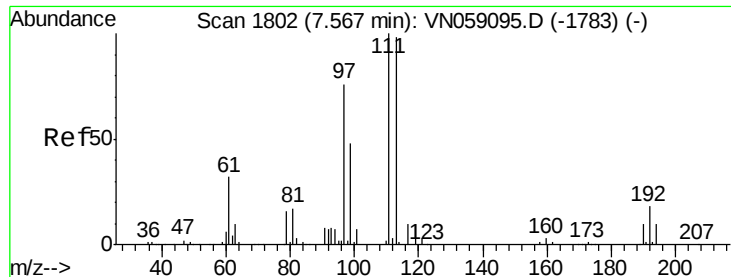


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





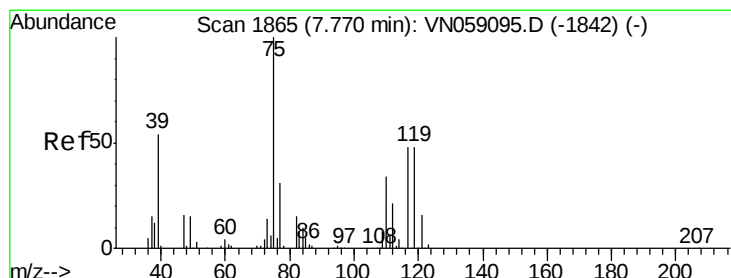
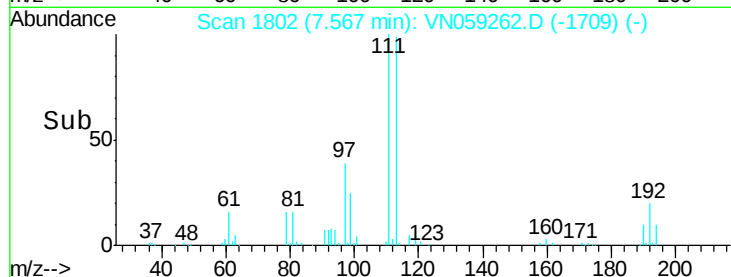
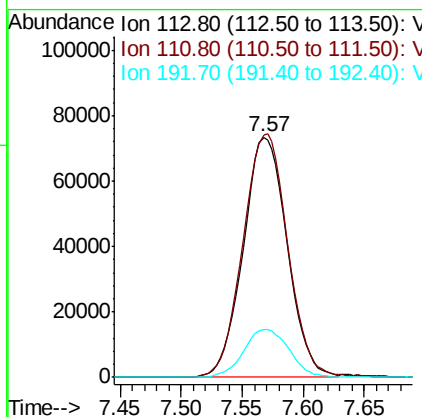
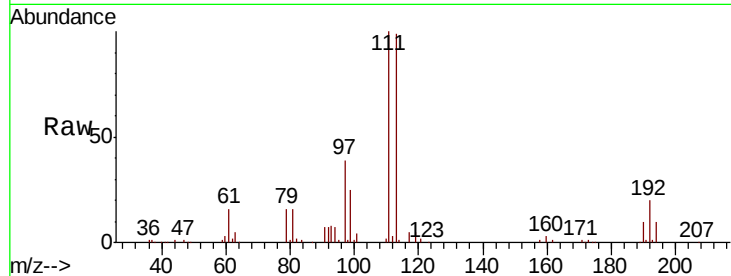
#35
Dibromofluoromethane
Concen: 52.669 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	183082		
111	102.9	82.8	124.2	
192	20.8	16.1	24.1	

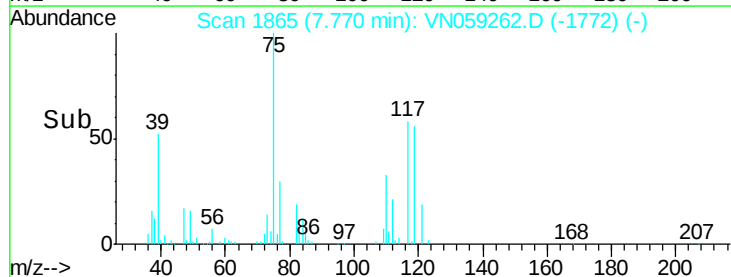
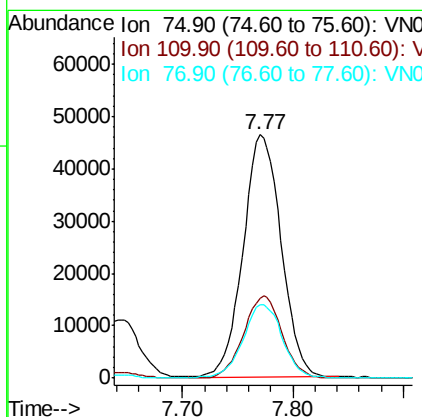
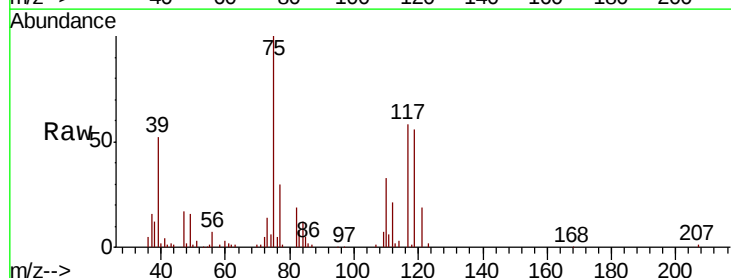
Manual Integrations
APPROVED

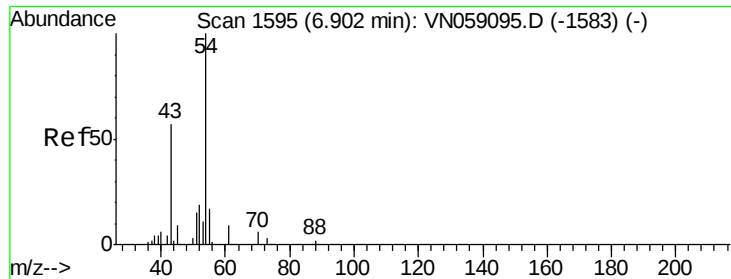
MMDadoda
11/18/2019 3:09:41 PM



#36
1,1-Dichloropropene
Concen: 20.434 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	111189		
110	33.9	17.1	51.2	
77	31.4	24.8	37.2	





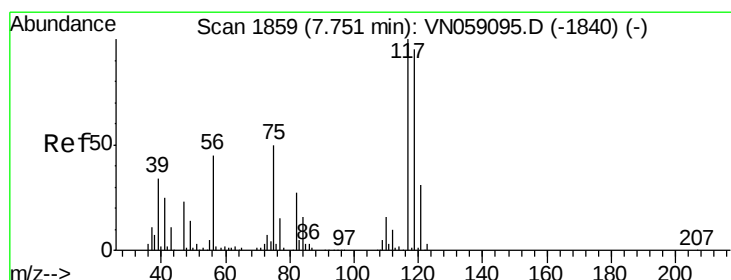
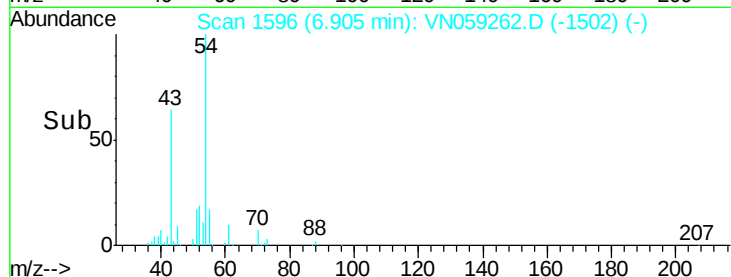
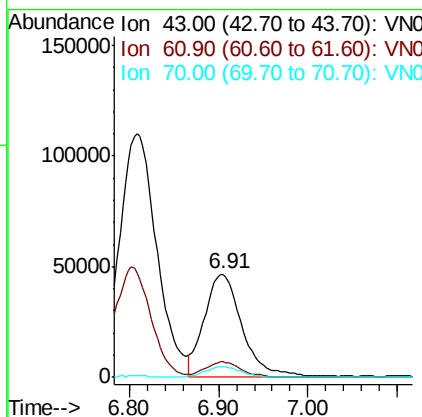
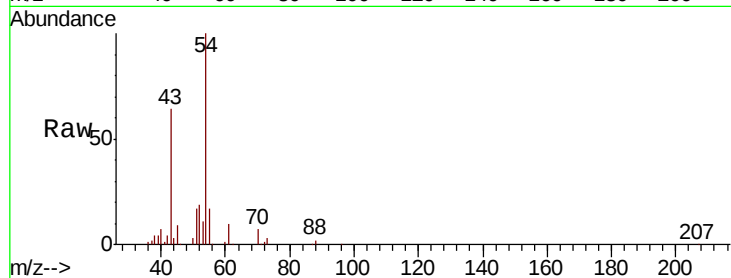
#37
Ethyl Acetate
Concen: 22.376 ug/l
RT: 6.91 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.2	16.8
70	10.4	7.8	11.8

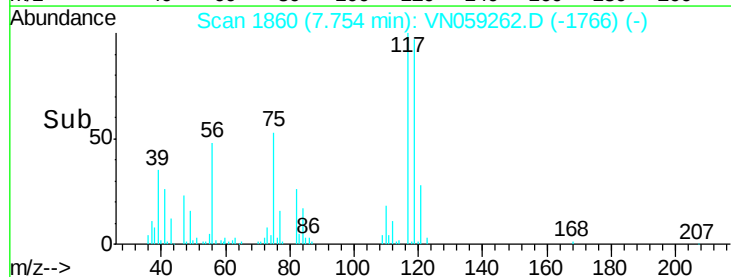
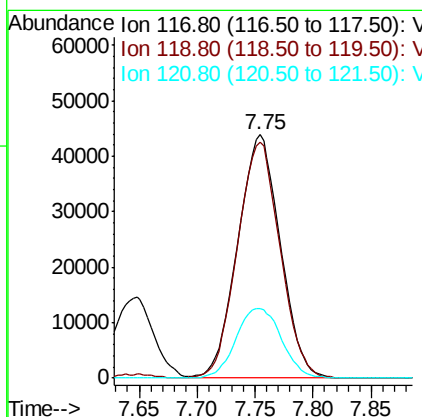
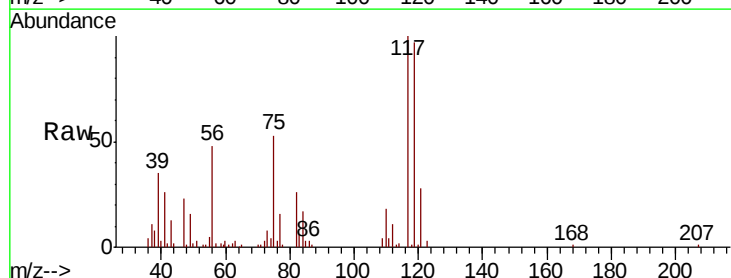
Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#38
Carbon Tetrachloride
Concen: 20.653 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.0	75.6	113.4
121	28.4	24.6	36.8





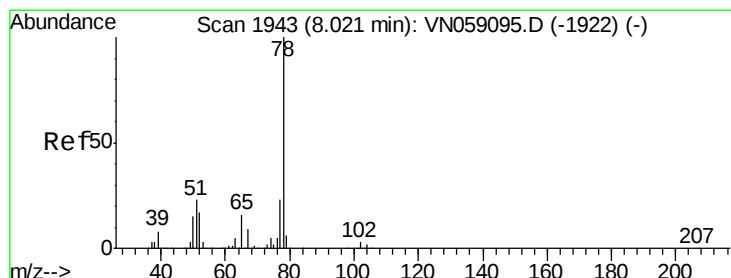
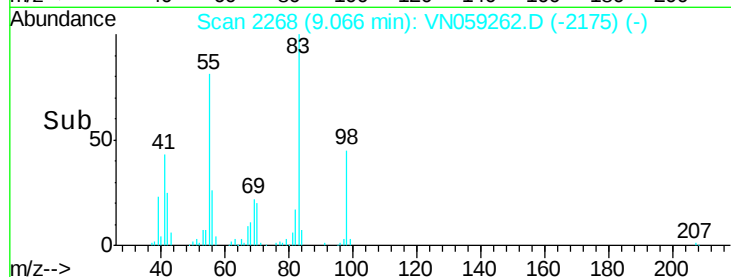
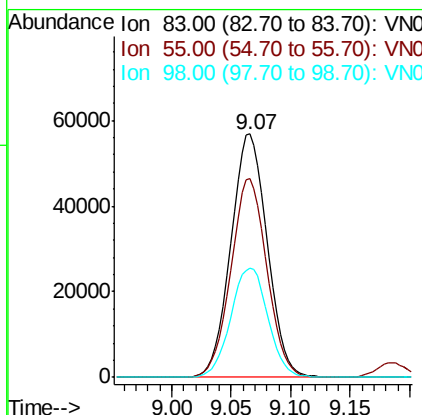
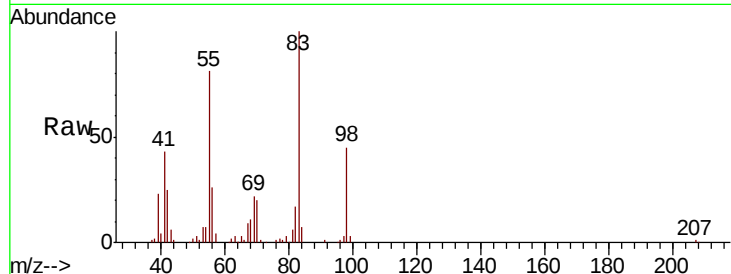
#39
Methvlcvclohexane
Concen: 19.101 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.4	63.9	95.9
98	44.7	35.6	53.4

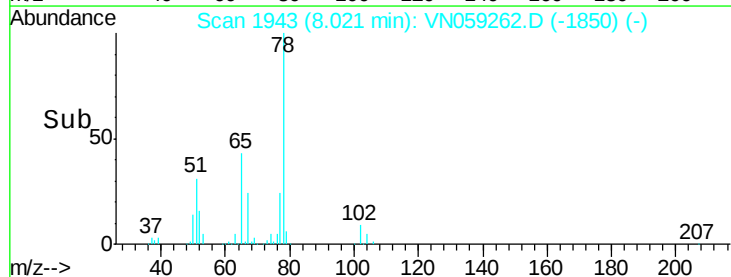
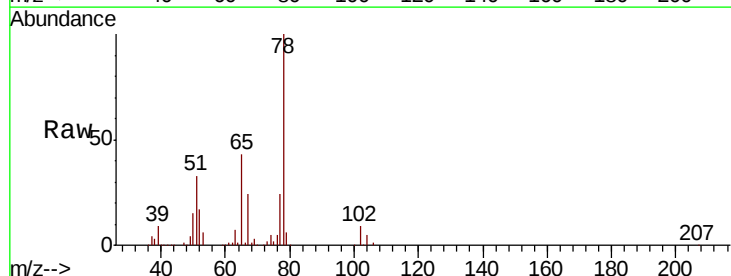
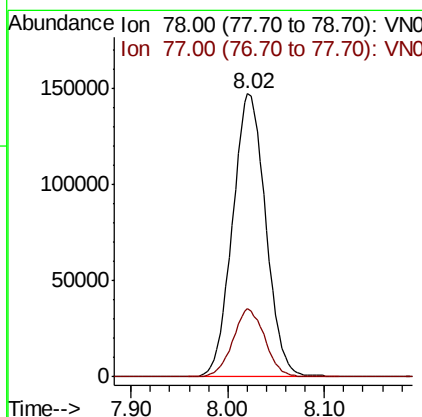
Manual Integrations
APPROVED

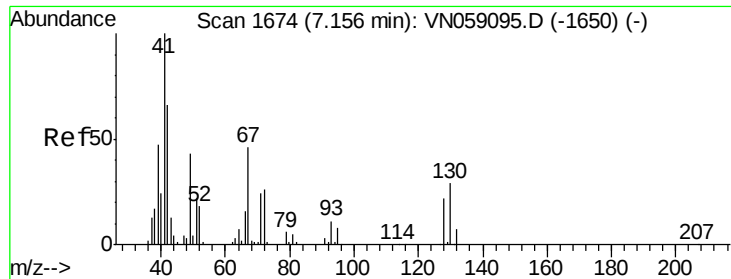
MMDadoda
11/18/2019 3:09:41 PM



#40
Benzene
Concen: 21.364 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2





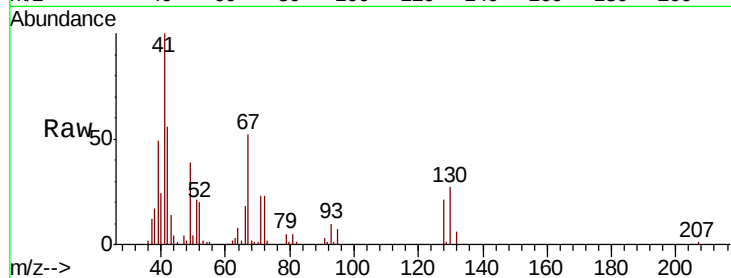
#41
Methacrylonitrile
Concen: 22.508 ug/l m
RT: 7.16 min Scan# 1674
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

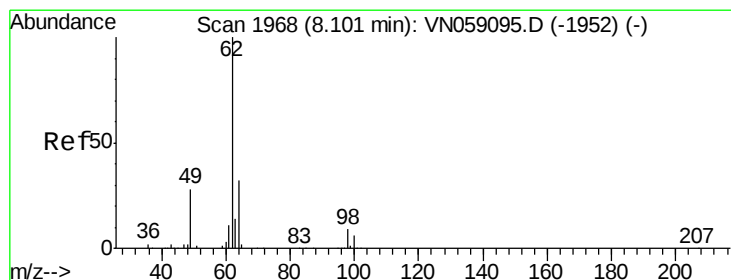
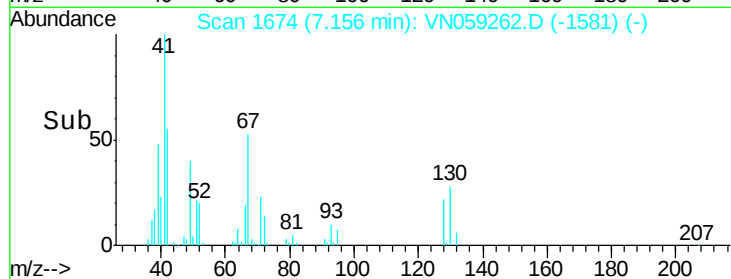
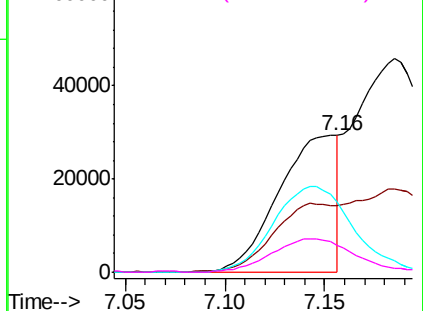
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM

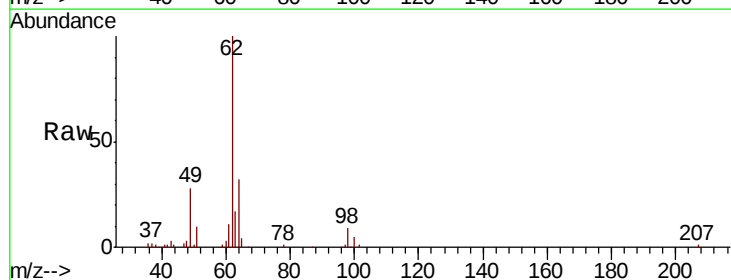


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

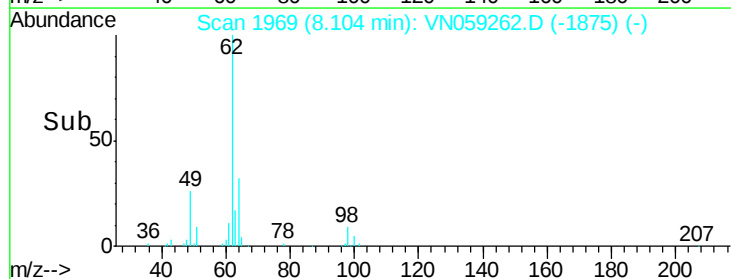
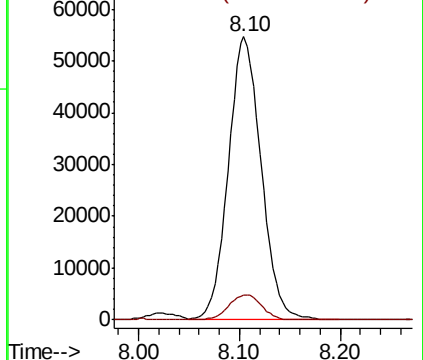


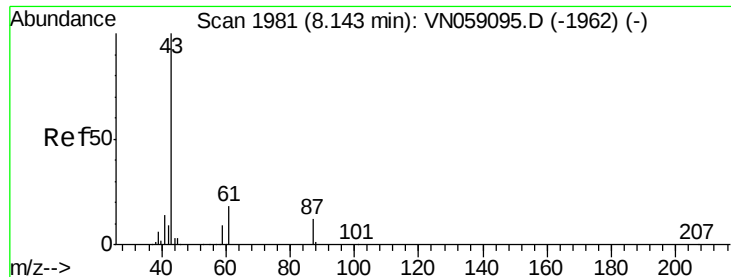
#42
1,2-Dichloroethane
Concen: 22.009 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.8



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC





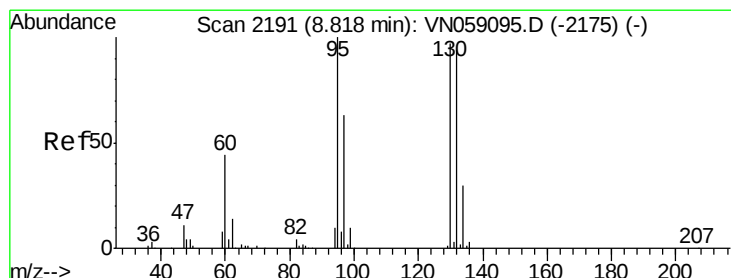
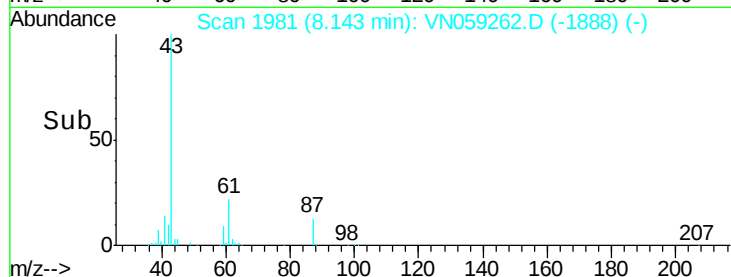
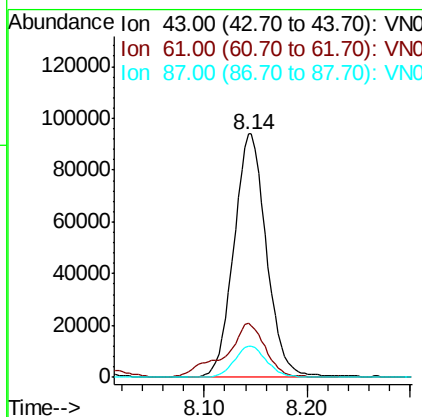
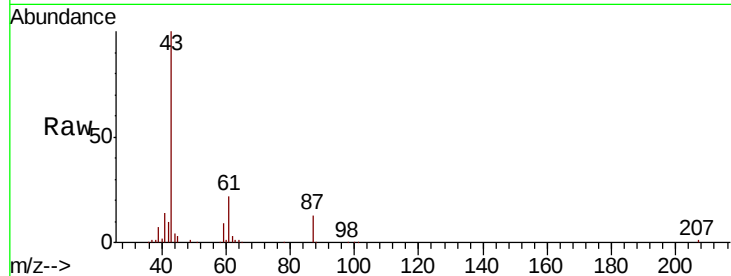
#43
Isopropyl Acetate
Concen: 21.235 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.6	21.0	31.6
87	12.7	9.8	14.6

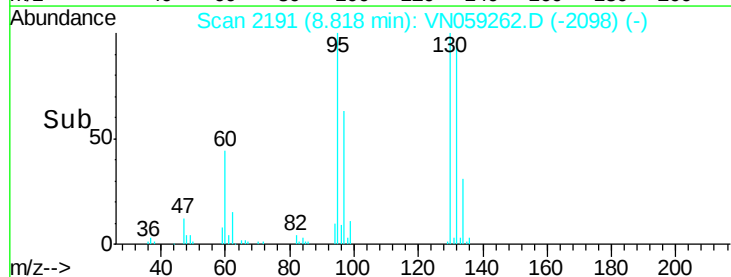
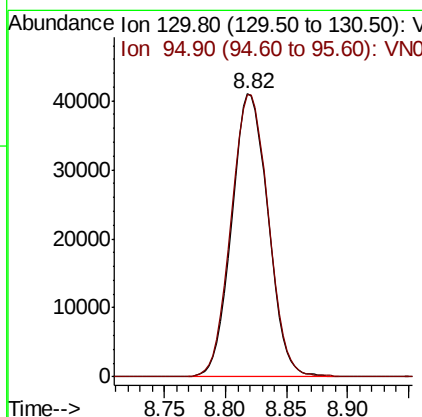
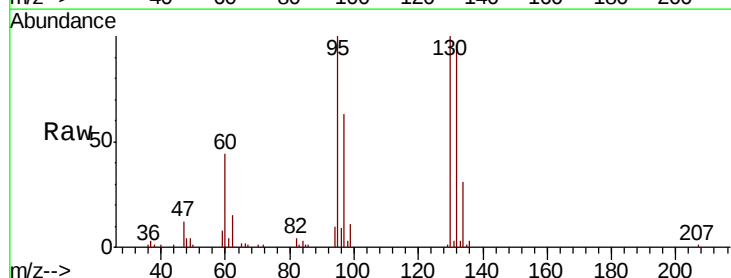
Manual Integrations
APPROVED

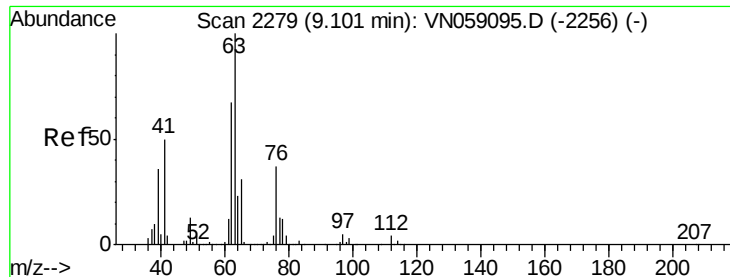
MMDadoda
11/18/2019 3:09:41 PM



#44
Trichloroethene
Concen: 21.098 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	206.4





#45

1,2-Dichloropropane

Concen: 21.903 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBS01

Tot Ion: 63 Resp: 97486

Ion Ratio Lower Upper

63 100

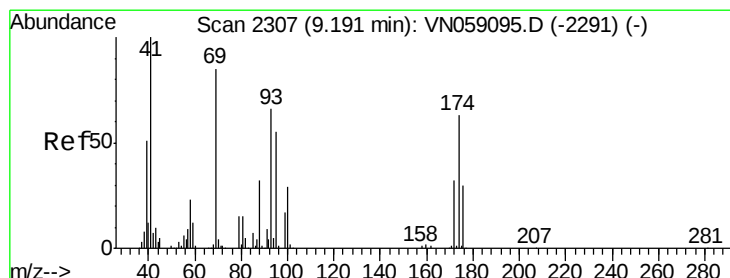
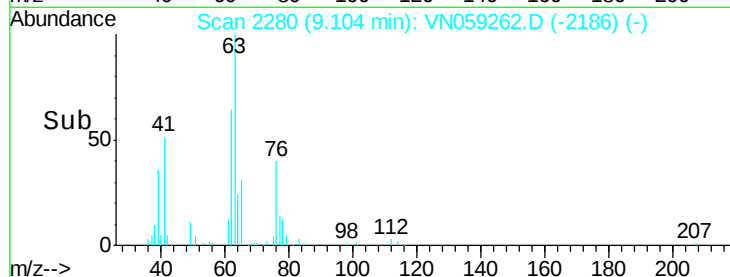
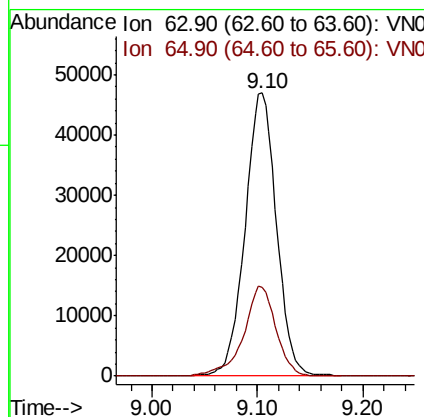
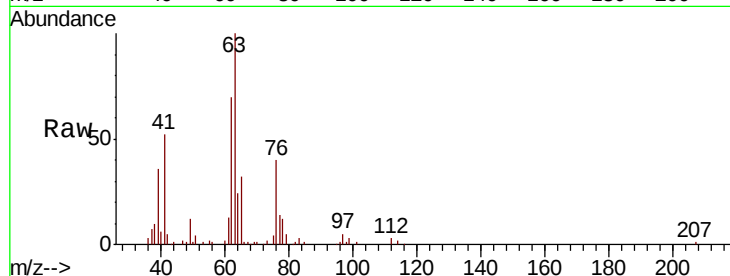
65 31.6 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

11/18/2019 3:09:41 PM



#46

Dibromomethane

Concen: 21.475 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

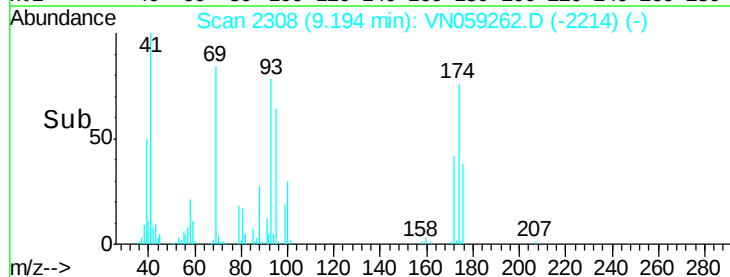
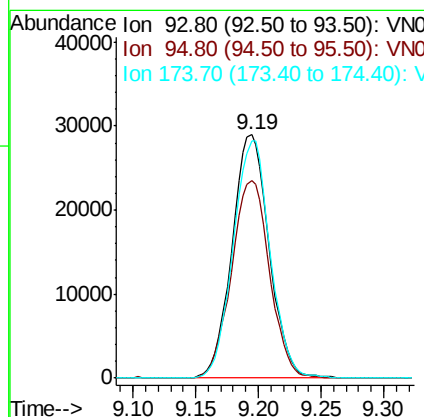
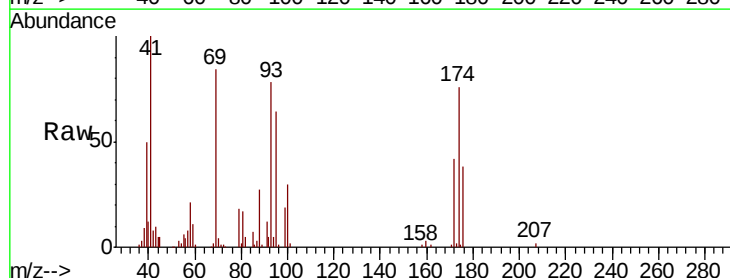
Tgt Ion: 93 Resp: 59560

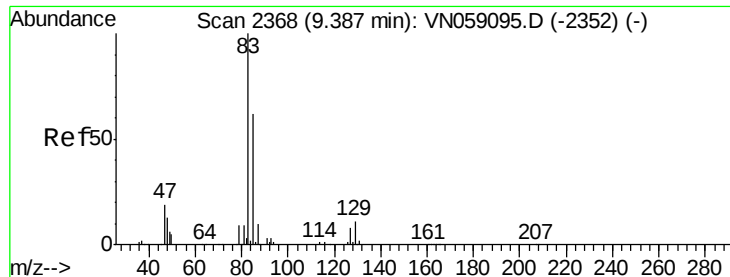
Ion Ratio Lower Upper

93 100

95 83.4 66.6 100.0

174 97.3 78.2 117.2





#47

Bromodichloromethane

Concen: 22.087 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

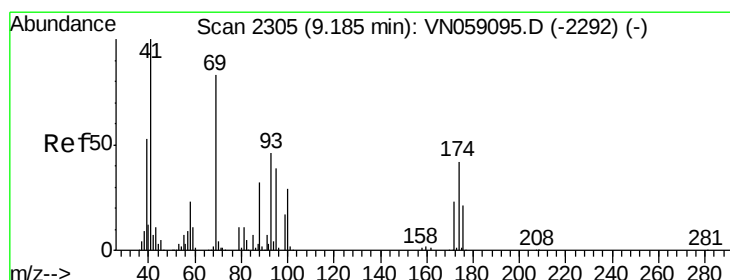
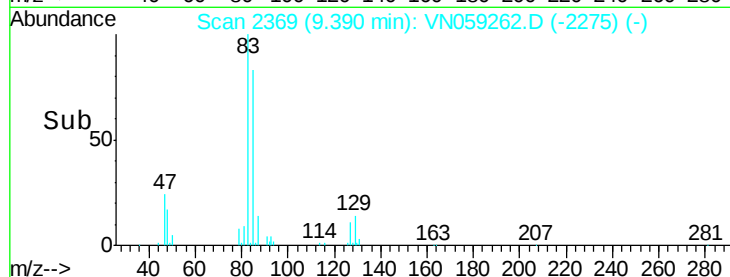
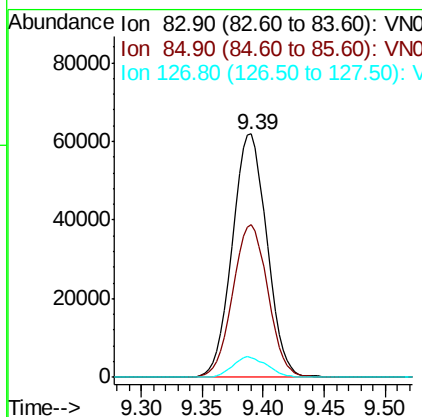
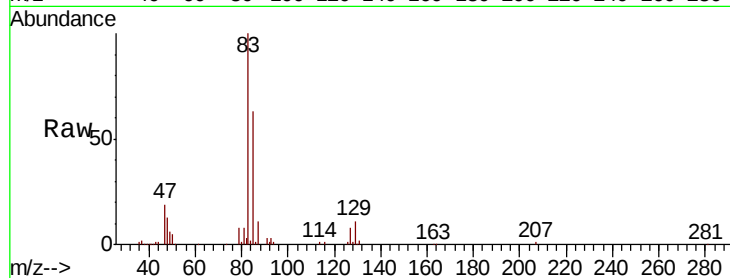
ClientSampleId :

VN1115MBSD01

Tot Ion:	83	Resp:	122323
Ion	Ratio	Lower	Upper
83	100		
85	62.9	49.7	74.5
127	8.1	6.4	9.6

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#48

Methyl methacrylate

Concen: 20.472 ug/l

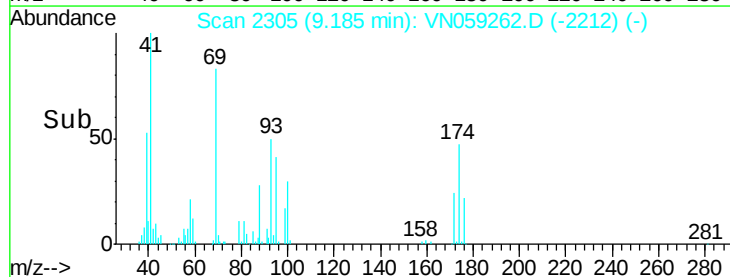
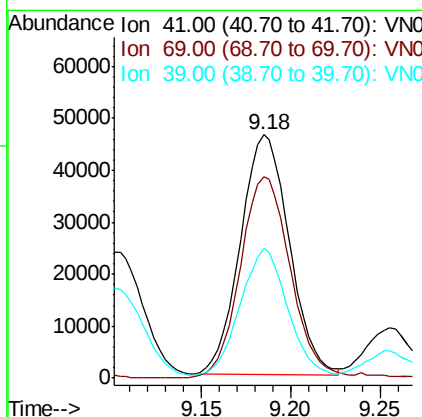
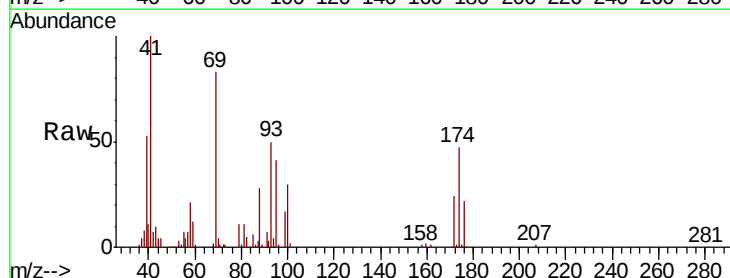
RT: 9.18 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion:	41	Resp:	88372
Ion	Ratio	Lower	Upper
41	100		
69	86.3	67.3	100.9
39	52.9	43.3	64.9





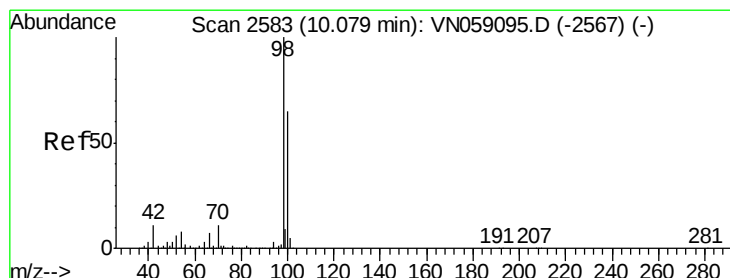
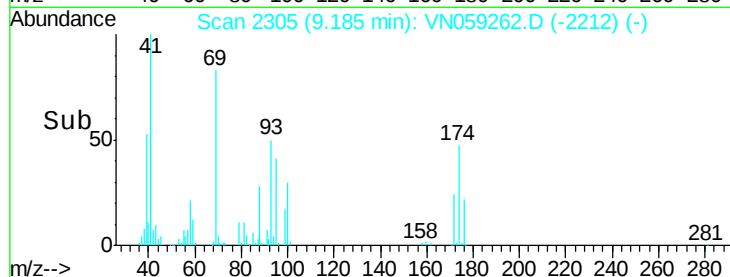
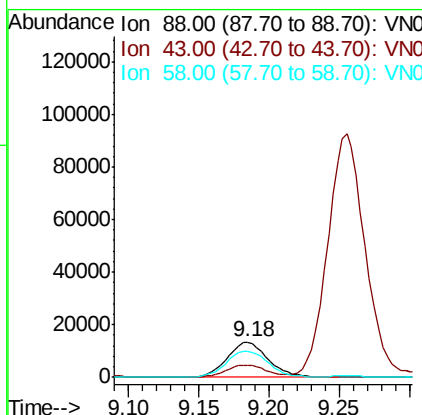
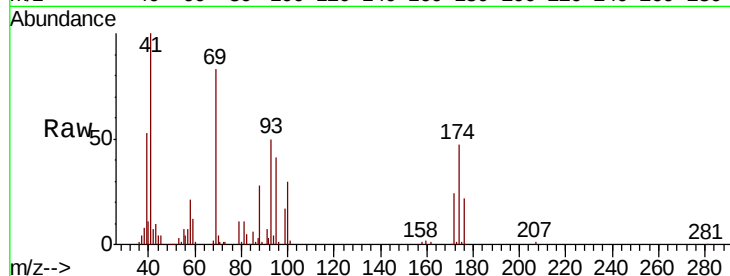
#49
1,4-Dioxane
Concen: 357.334 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	88	Resp	27413
Ion	Ratio	Lower	Upper
88	100		
43	36.0	26.3	39.5
58	76.5	60.6	90.8

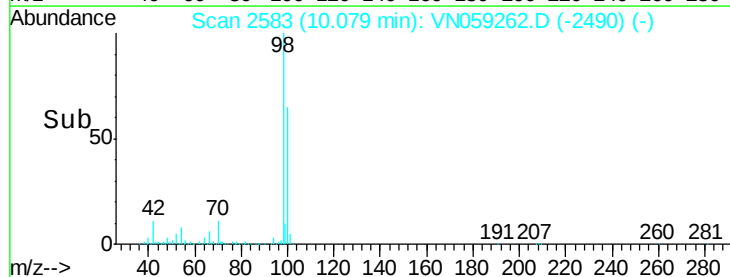
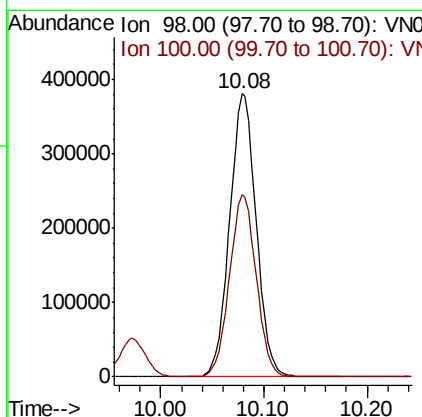
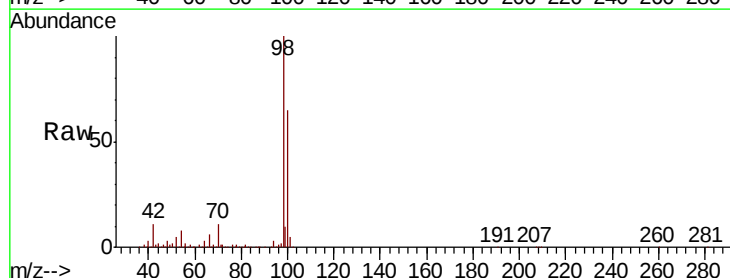
Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#50
Toluene-d8
Concen: 50.001 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	98	Resp	684607
Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 120.632 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 43 Resp: 658729

Ion Ratio Lower Upper

43 100

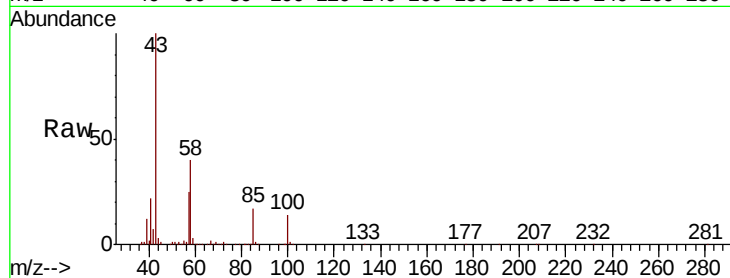
58 39.0 31.5 47.3

Manual Integrations

APPROVED

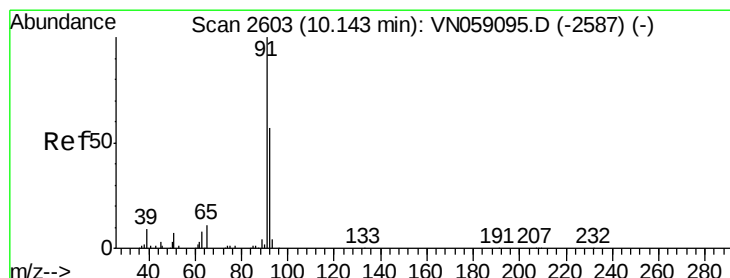
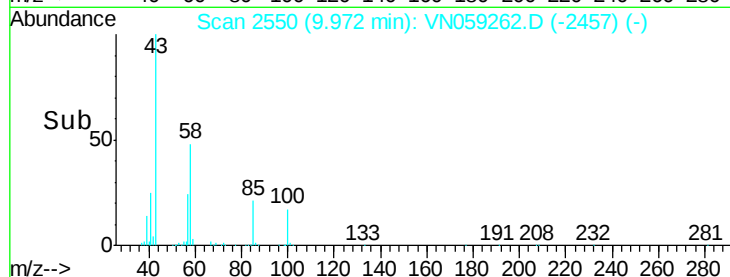
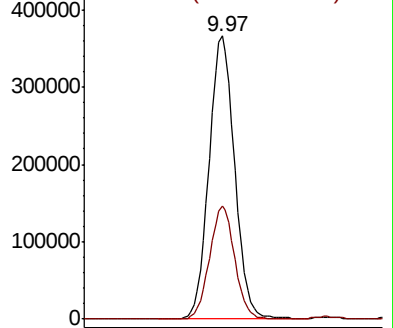
MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 21.464 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059262.D

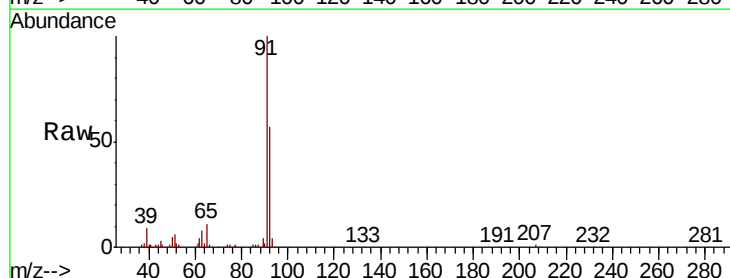
Acq: 15 Nov 2019 13:51

Tgt Ion: 92 Resp: 210803

Ion Ratio Lower Upper

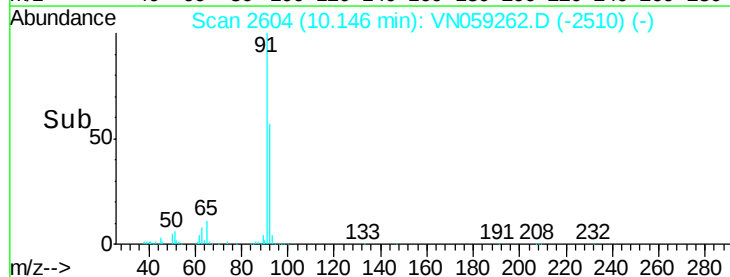
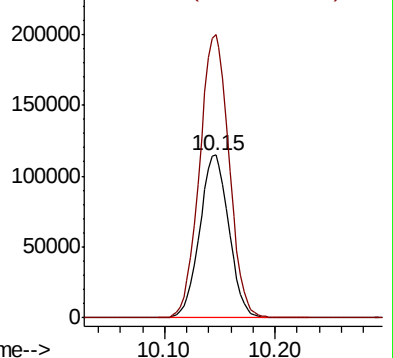
92 100

91 175.7 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





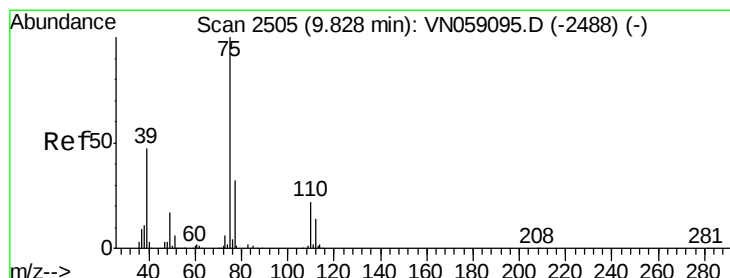
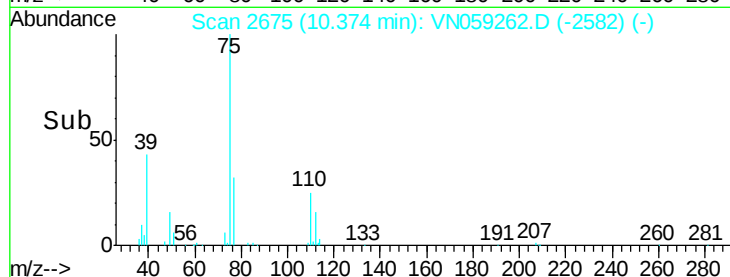
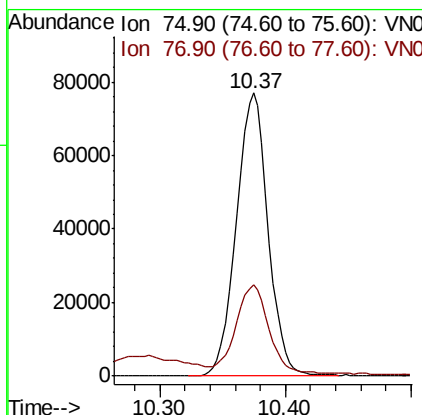
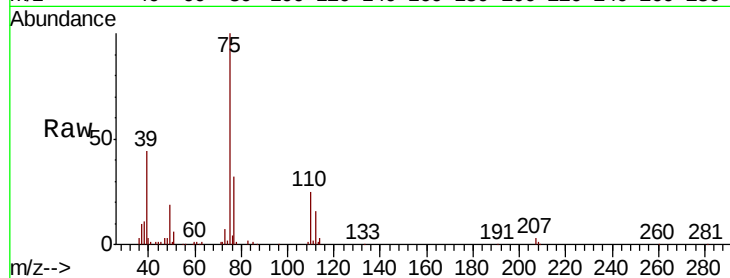
#53
t-1,3-Dichloropropene
Concen: 21.118 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.3	37.9

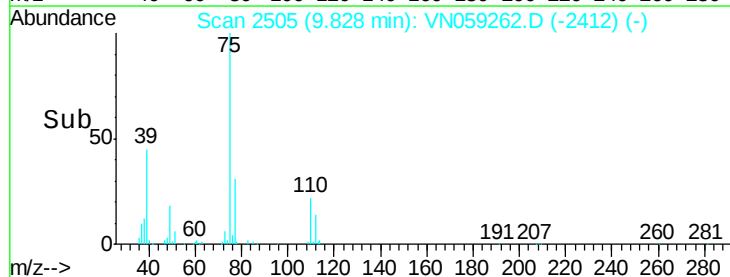
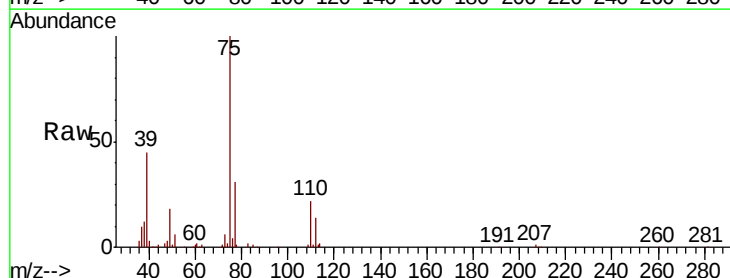
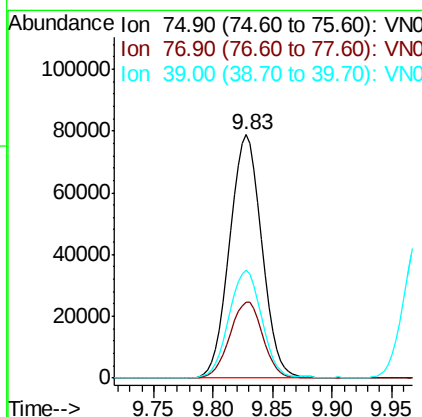
Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#54
cis-1,3-Dichloropropene
Concen: 21.510 ug/l
RT: 9.83 min Scan# 2505
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.5	38.3
39	44.3	37.3	55.9





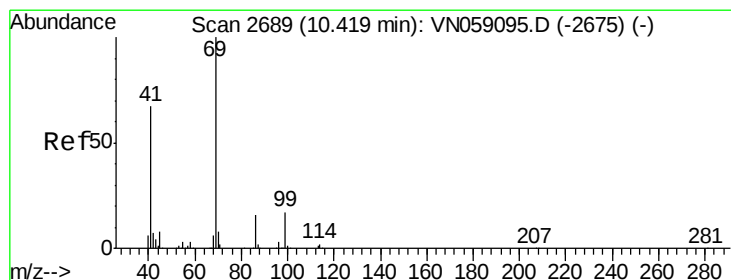
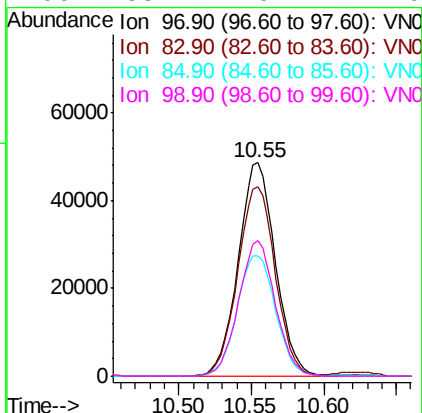
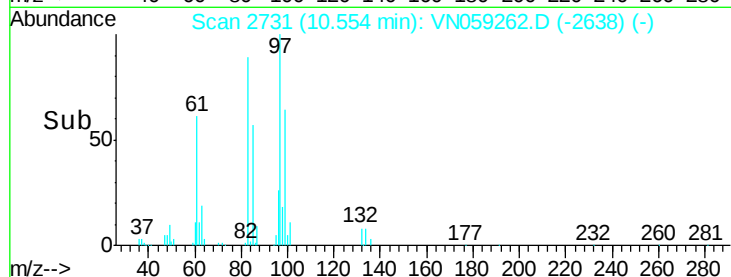
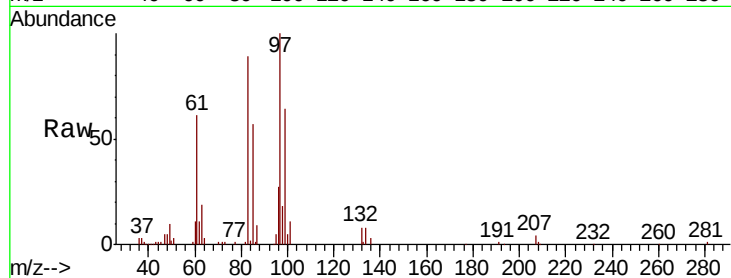
#55
 1,1,2-Trichloroethane
 Concen: 21.823 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115MBSD01

Tot Ion:	97	Resp:	86742
Ion	Ratio	Lower	Upper
97	100		
83	88.8	71.0	106.4
85	56.6	45.8	68.8
99	63.7	49.4	74.0

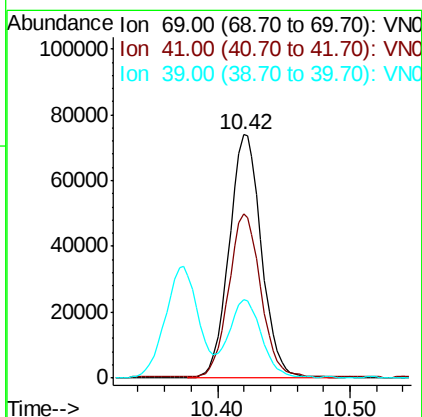
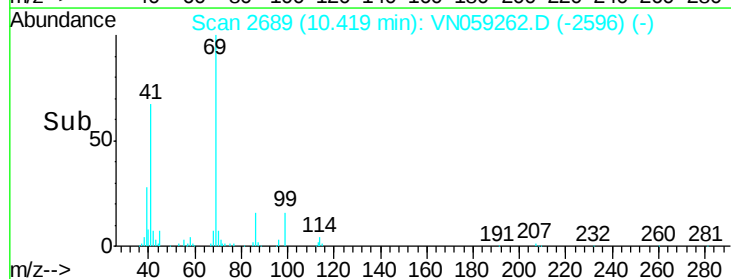
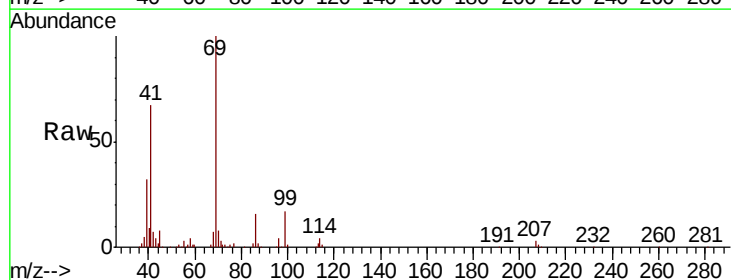
Manual Integrations
 APPROVED

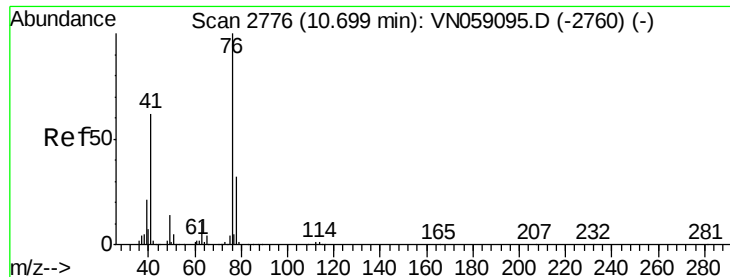
MMDadoda
 11/18/2019 3:09:41 PM



#56
 Ethyl methacrylate
 Concen: 20.060 ug/l
 RT: 10.42 min Scan# 2689
 Delta R.T. 0.00 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Tgt Ion:	69	Resp:	125265
Ion	Ratio	Lower	Upper
69	100		
41	66.0	53.6	80.4
39	32.4	26.2	39.4





#57

1,3-Dichloropropane

Concen: 22.203 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 76 Resp: 151896

Ion Ratio Lower Upper

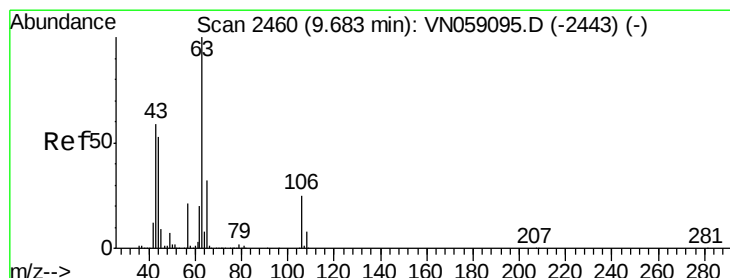
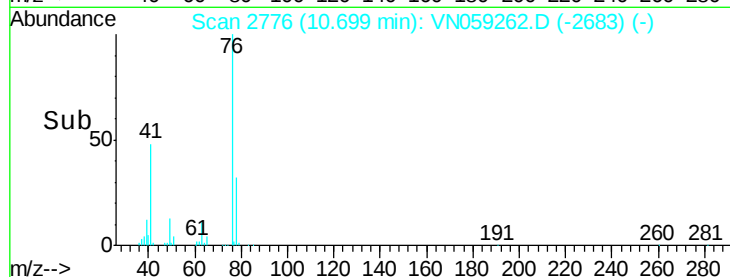
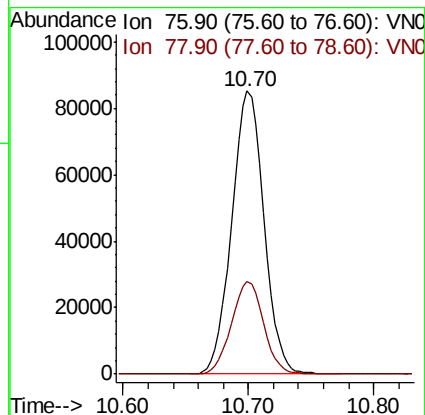
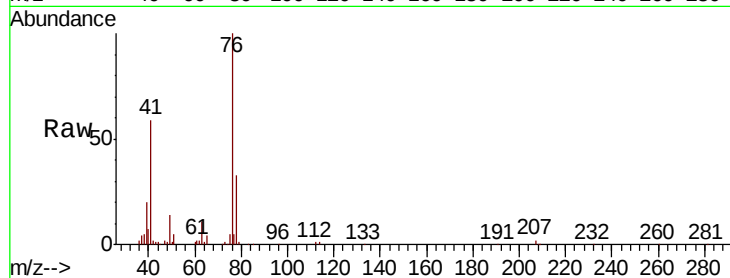
76 100

78 32.7 25.8 38.8

Manual Integrations
APPROVED

MMDadoda

11/18/2019 3:09:41 PM



#58

2-Chloroethyl Vinyl ether

Concen: 107.706 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. -0.00 min

Lab File: VN059262.D

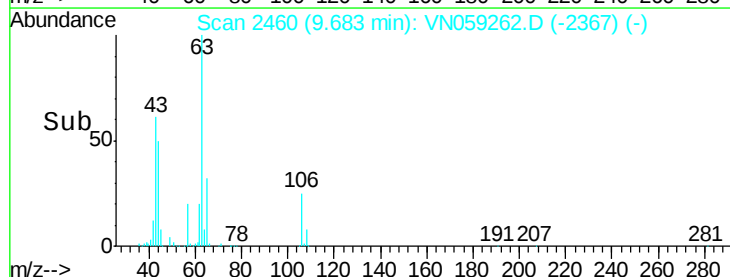
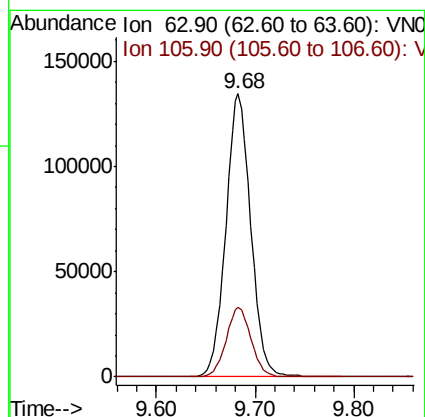
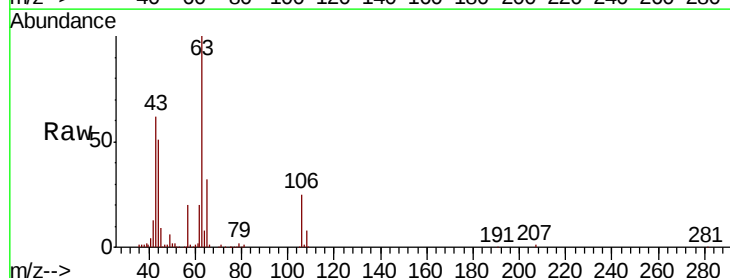
Acq: 15 Nov 2019 13:51

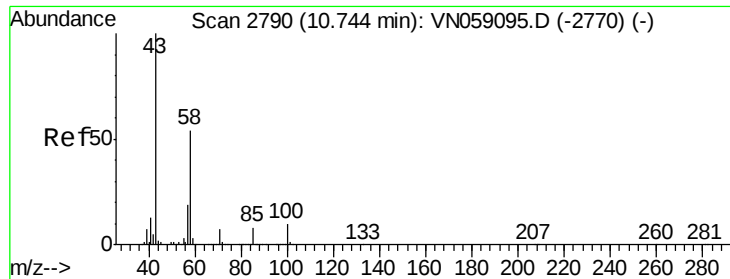
Tgt Ion: 63 Resp: 238256

Ion Ratio Lower Upper

63 100

106 24.6 20.2 30.2





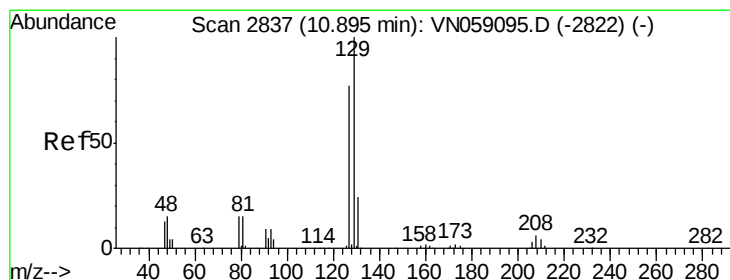
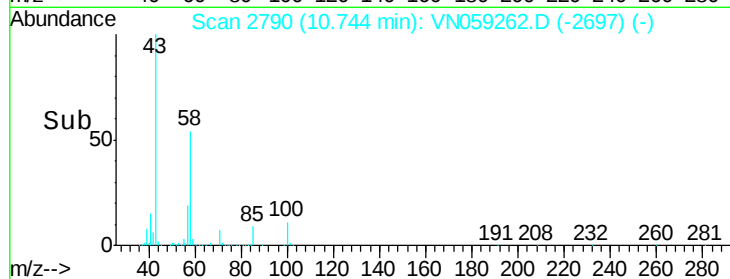
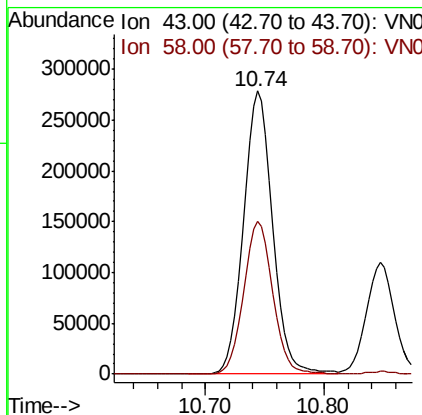
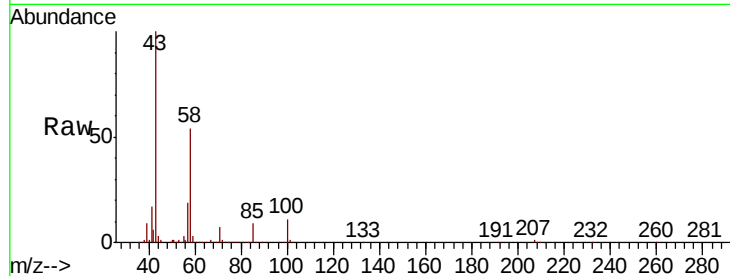
#59
2-Hexanone
Concen: 112.000 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.2	27.3	81.8

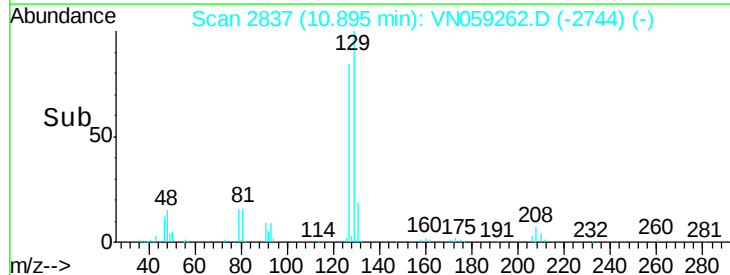
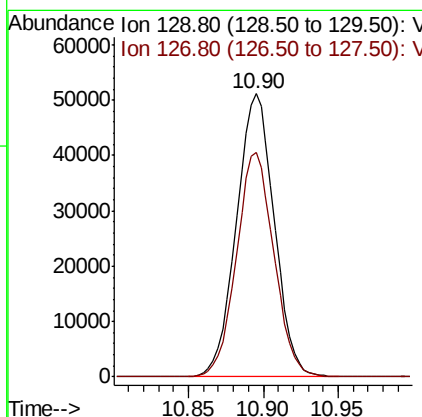
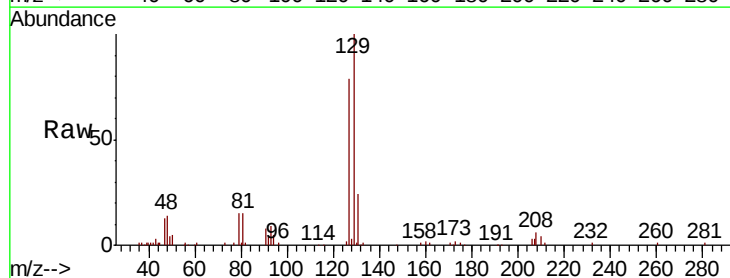
Manual Integrations
APPROVED

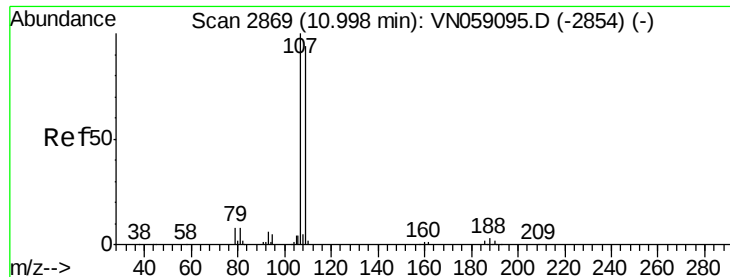
MMDadoda
11/18/2019 3:09:41 PM



#60
Dibromochloromethane
Concen: 21.399 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.6	115.8





#61

1,2-Dibromoethane

Concen: 21.789 ug/l

RT: 11.00 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBS01

Tot Ion: 107 Resp: 87676

Ion Ratio Lower Upper

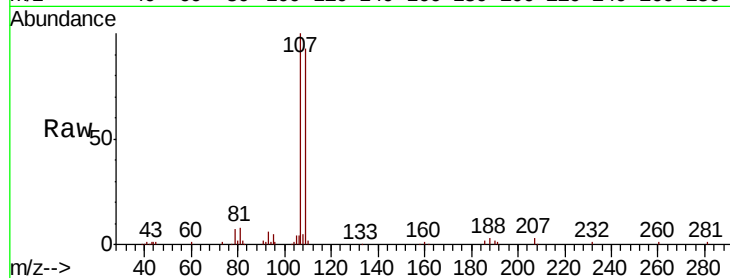
107 100

109 93.5 75.5 113.3

Manual Integrations
APPROVED

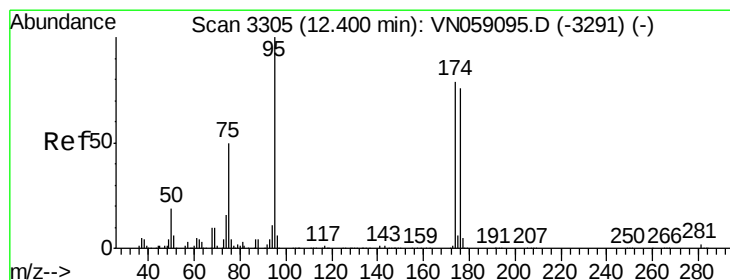
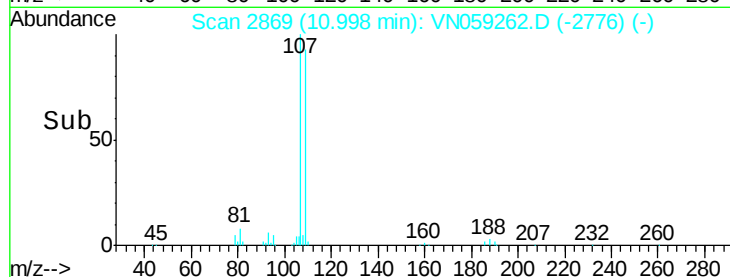
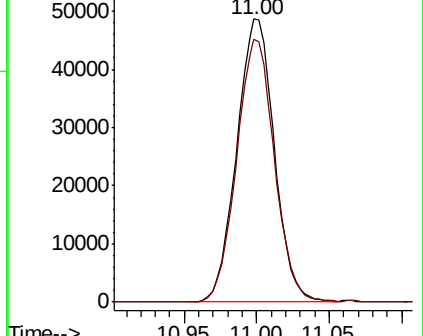
MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.556 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

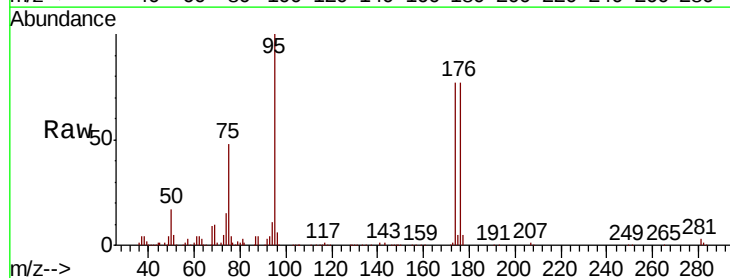
Tgt Ion: 95 Resp: 244649

Ion Ratio Lower Upper

95 100

174 79.6 0.0 158.2

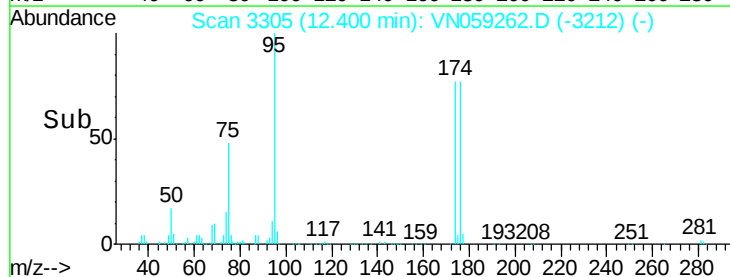
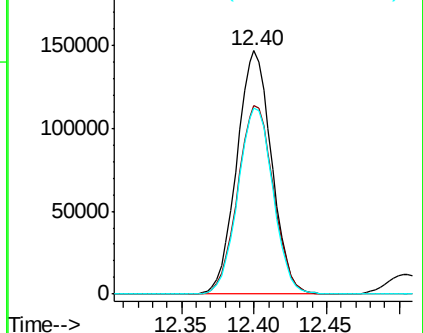
176 77.3 0.0 151.8

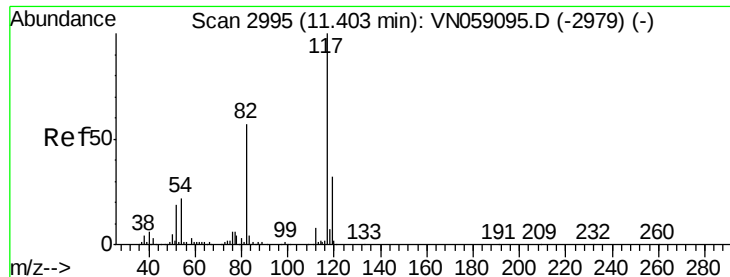


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

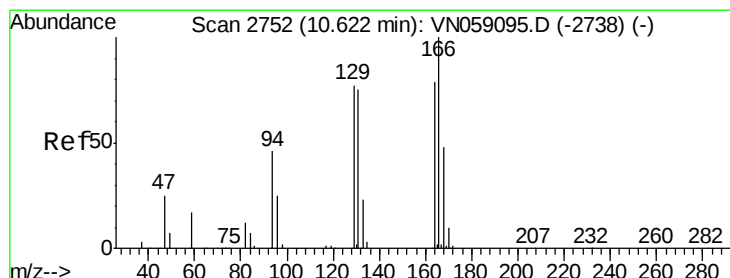
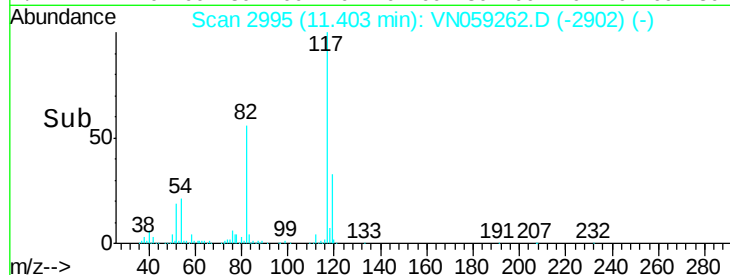
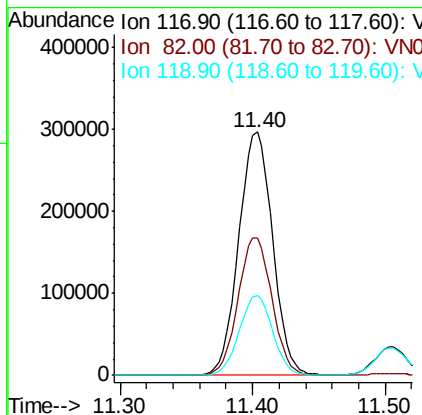
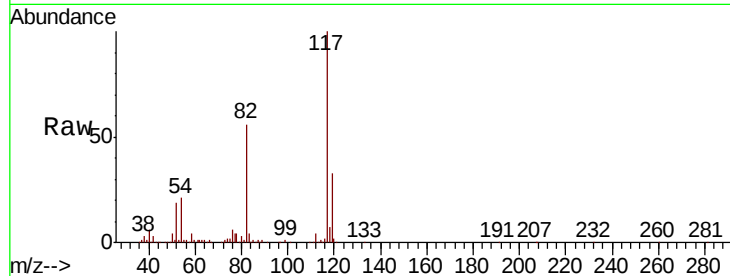
ClientSampleId :

VN1115MBSD01

Tot Ion:	117	Resp:	527865
Ion Ratio		Lower	Upper
117	100		
82	56.4	45.8	68.8
119	32.7	25.8	38.6

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#64

Tetrachloroethene

Concen: 21.147 ug/l

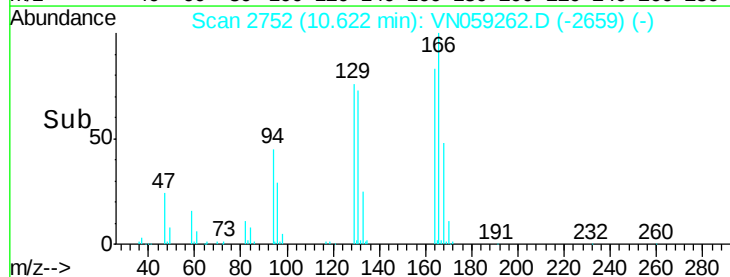
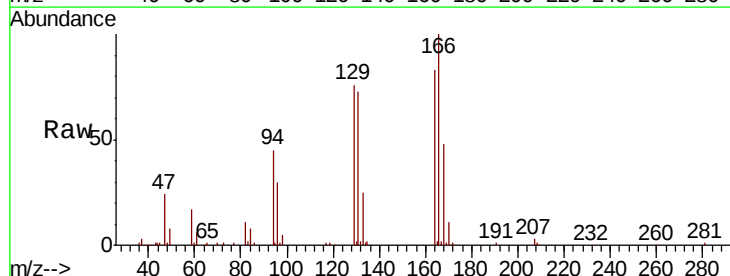
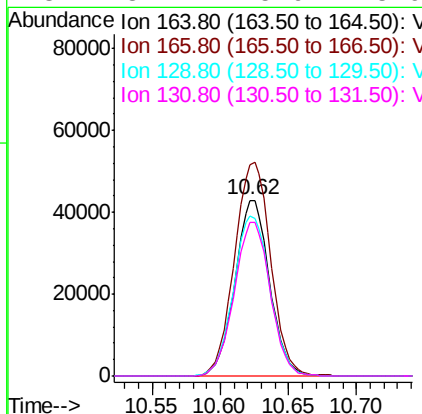
RT: 10.62 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion:	164	Resp:	75904
Ion Ratio		Lower	Upper
164	100		
166	120.5	101.5	152.3
129	91.3	78.3	117.5
131	87.4	75.9	113.9





#65

Chlorobenzene

Concen: 21.754 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion:112 Resp: 223847

Ion Ratio Lower Upper

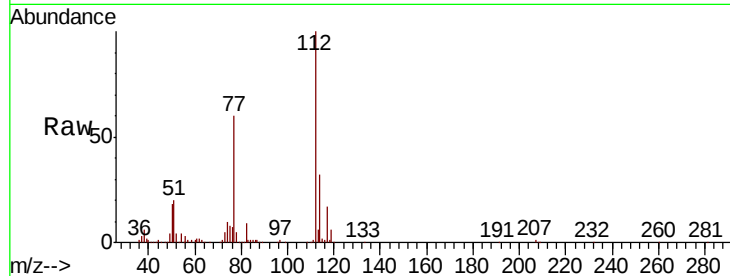
112 100

114 32.0 25.2 37.8

Manual Integrations
APPROVED

MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

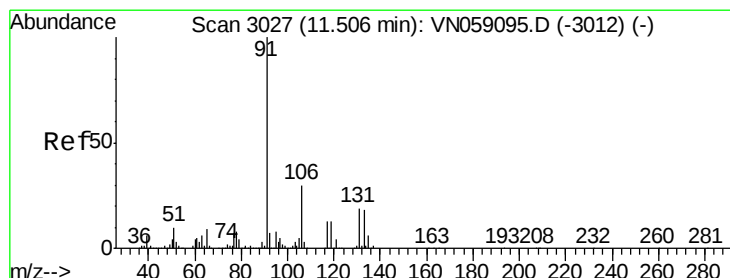
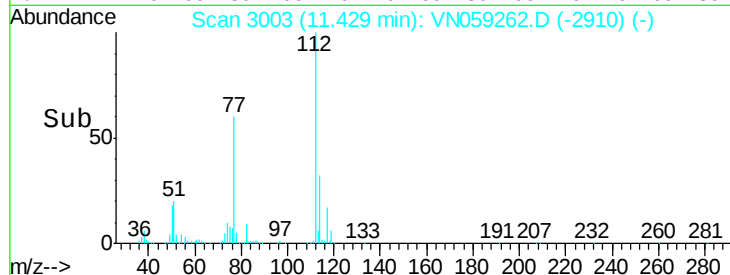
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 22.484 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

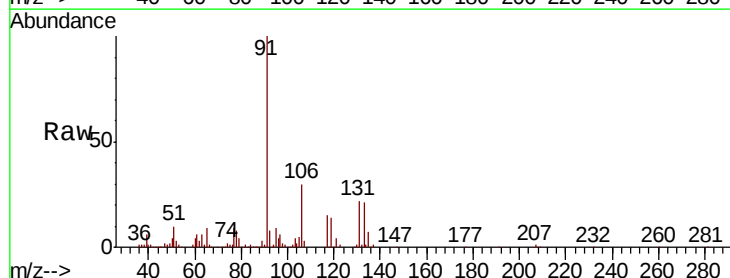
Tgt Ion:131 Resp: 86790

Ion Ratio Lower Upper

131 100

133 94.5 47.4 142.3

119 66.6 33.2 99.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

80000

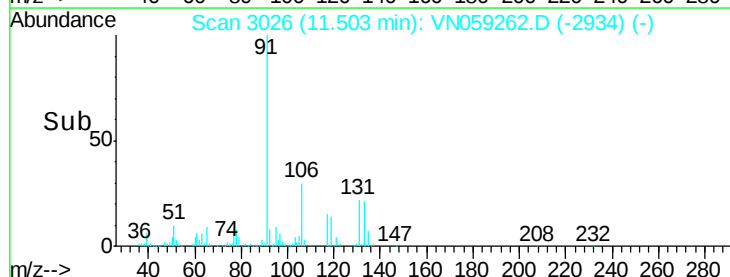
60000

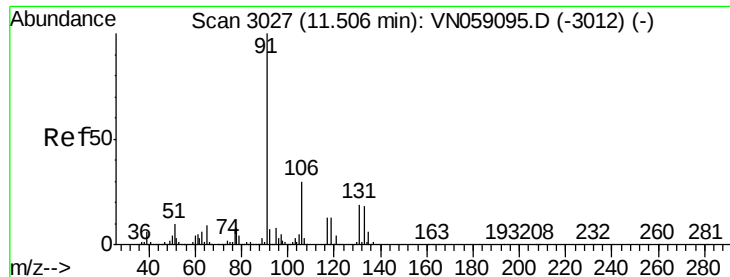
40000

20000

0

Time-->





#67

Ethyl Benzene

Concen: 21.832 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 91 Resp: 398583

Ion Ratio Lower Upper

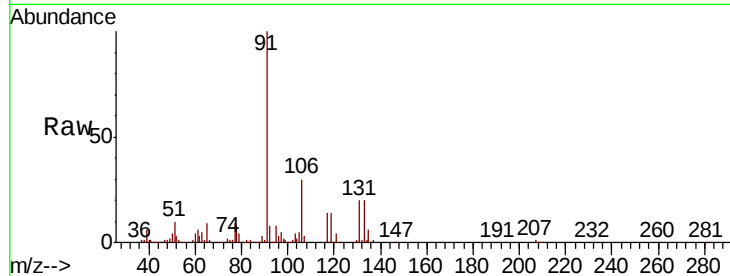
91 100

106 30.4 24.1 36.1

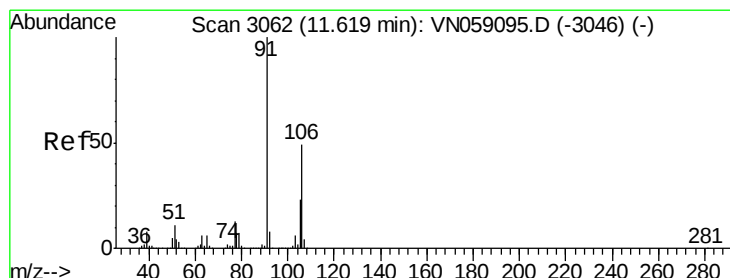
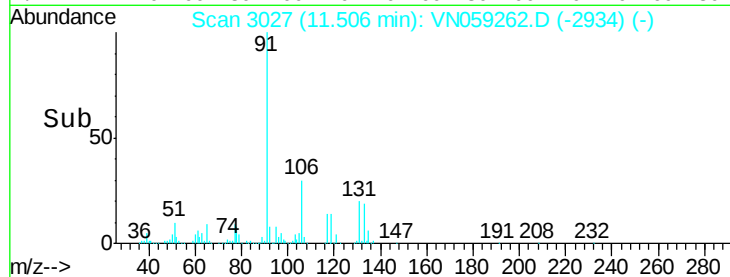
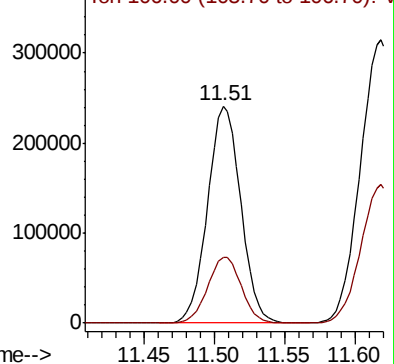
Manual Integrations
APPROVED

MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 91.00 (90.70 to 91.70): VN059095.D (-3012) (-)



#68

m/p-Xylenes

Concen: 42.845 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN059262.D

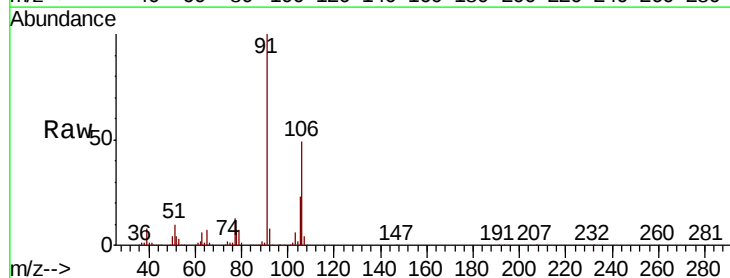
Acq: 15 Nov 2019 13:51

Tgt Ion: 106 Resp: 293013

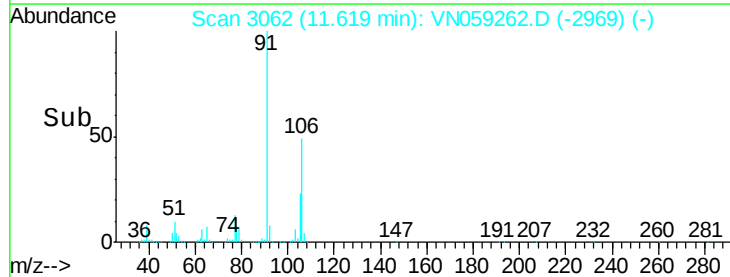
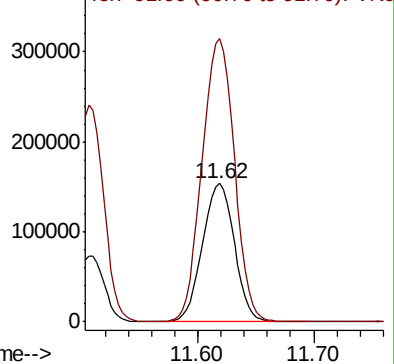
Ion Ratio Lower Upper

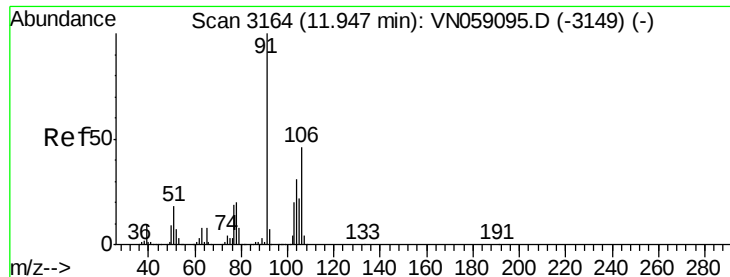
106 100

91 206.8 164.7 247.1



Abundance Ion 106.00 (105.70 to 106.70): VN059095.D (-3046) (-)





#69

o-Xylene

Concen: 21.499 ug/l

RT: 11.94 min Scan# 3163

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion:106 Resp: 142087

Ion Ratio Lower Upper

106 100

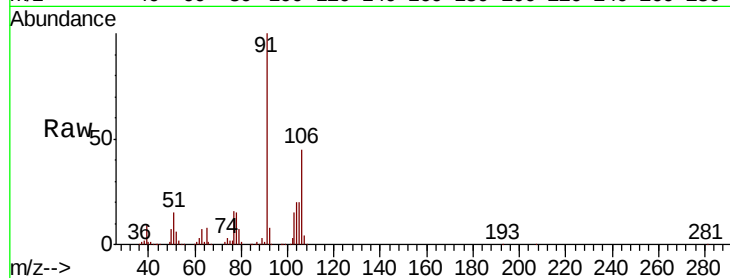
91 219.5 110.1 330.3

Manual Integrations

APPROVED

MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

200000

150000

100000

50000

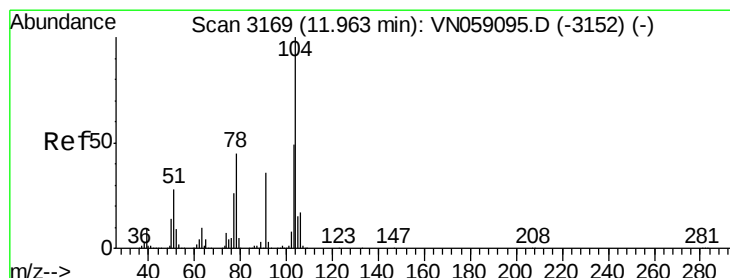
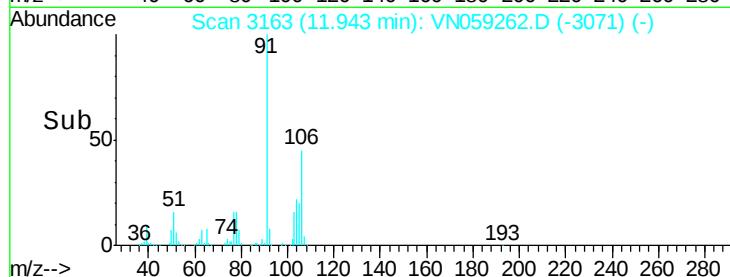
0

11.94

11.95

12.00

Time-->



#70

Styrene

Concen: 21.536 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

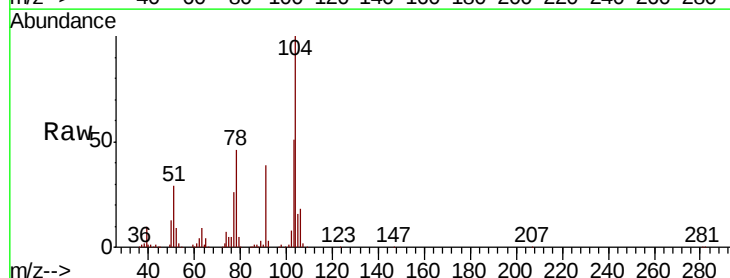
Tgt Ion:104 Resp: 223849

Ion Ratio Lower Upper

104 100

78 51.2 41.2 61.8

103 55.8 43.8 65.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

150000

100000

50000

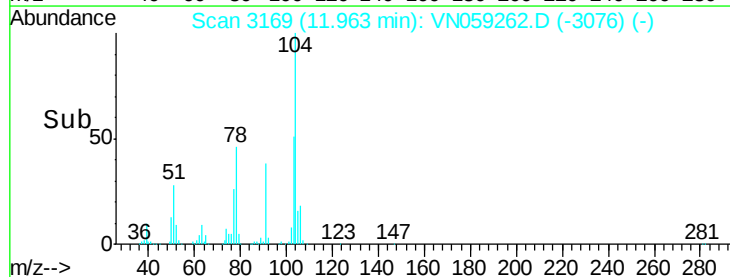
0

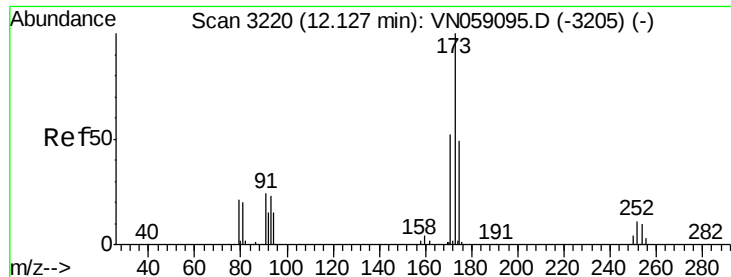
11.96

11.97

12.00

Time-->





#71

Bromoform

Concen: 22.155 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

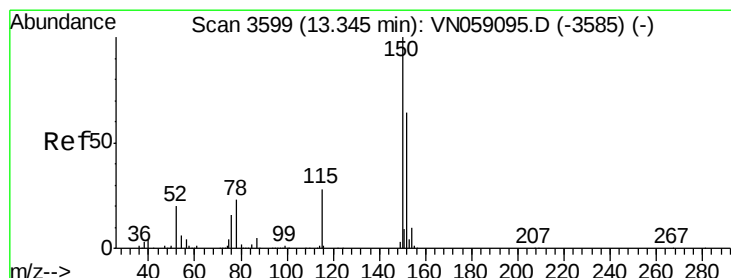
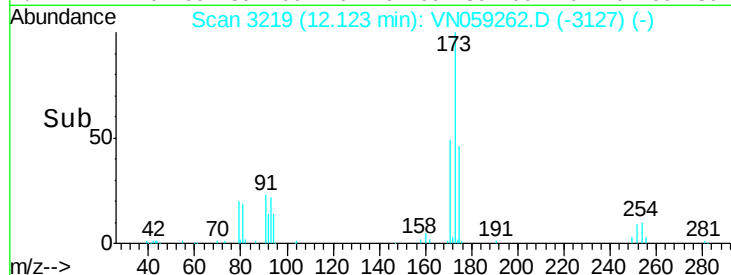
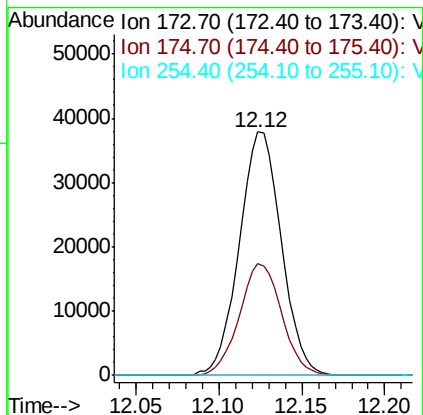
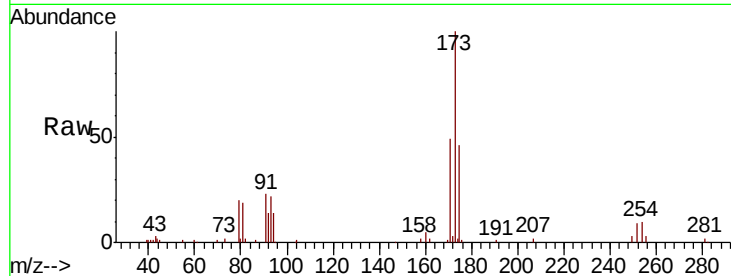
ClientSampleId :

VN1115MBSD01

Tot Ion:	173	Resp:	66521
Ion Ratio	Lower	Upper	
173	100		
175	46.2	24.2	72.6
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

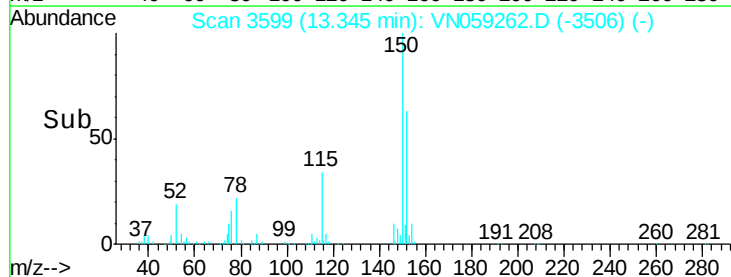
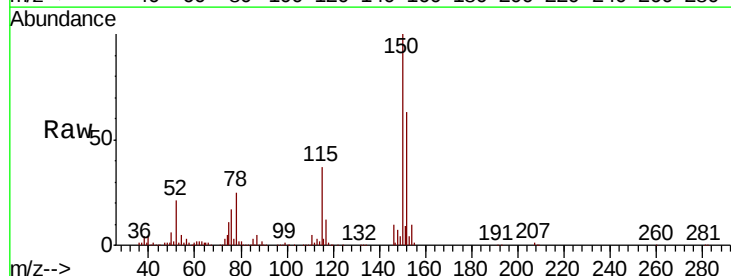
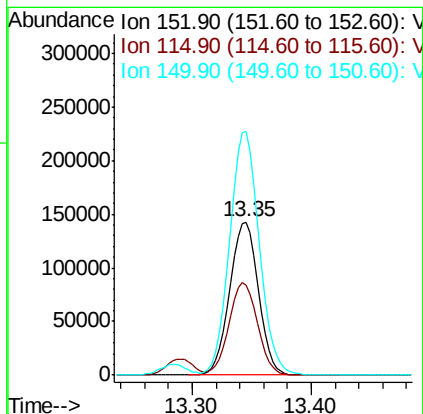
RT: 13.35 min Scan# 3599

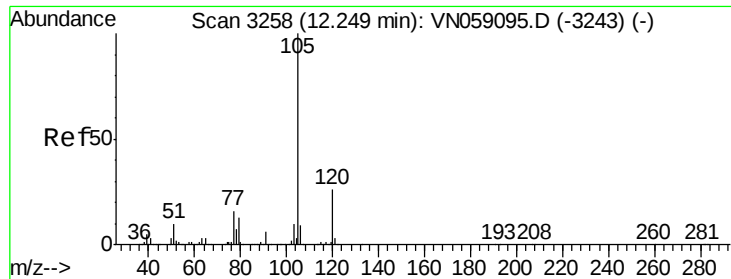
Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion:	152	Resp:	239023
Ion Ratio	Lower	Upper	
152	100		
115	59.7	29.4	88.2
150	163.8	0.0	345.8





#73

Isopropylbenzene

Concen: 22.111 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 105 Resp: 384433

Ion Ratio Lower Upper

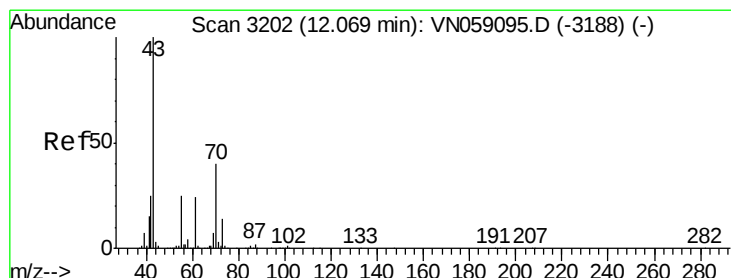
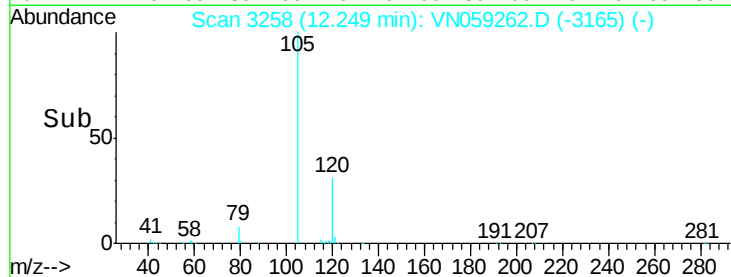
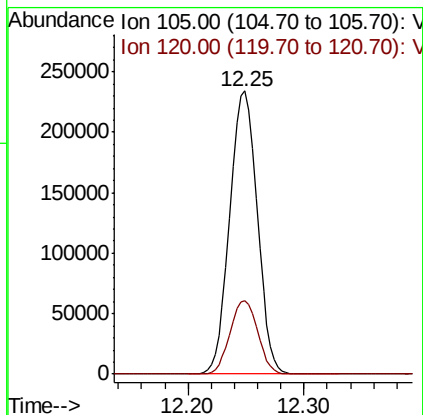
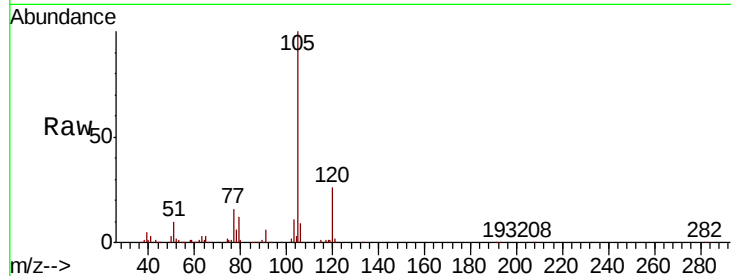
105 100

120 26.2 13.1 39.3

Manual Integrations
APPROVED

MMDadoda

11/18/2019 3:09:41 PM



#74

N-ethyl acetate

Concen: 20.988 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion: 43 Resp: 154625

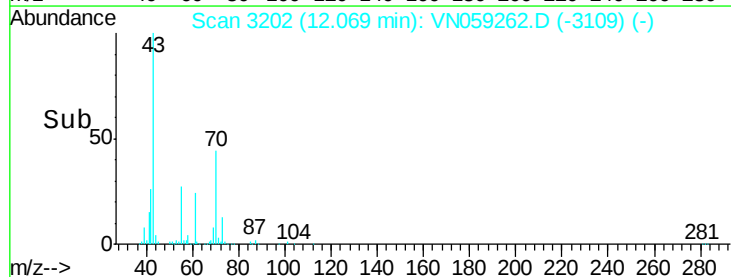
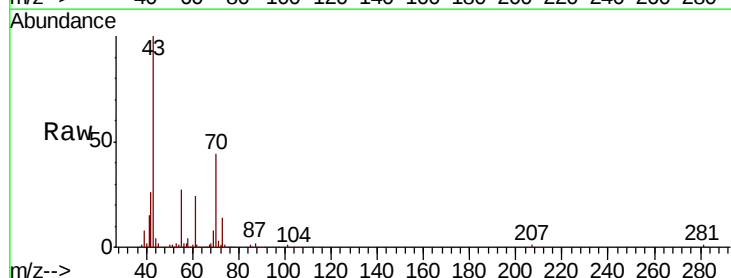
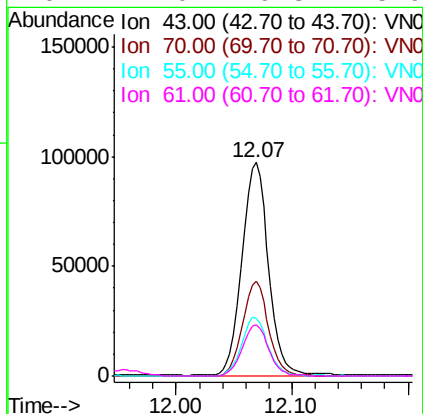
Ion Ratio Lower Upper

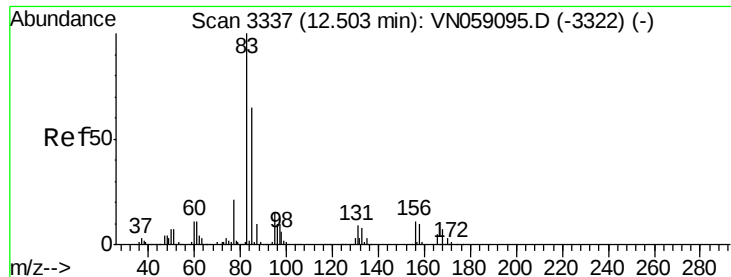
43 100

70 43.4 32.2 48.4

55 27.1 20.4 30.6

61 24.0 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 22.751 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 83 Resp: 134708
Ion Ratio Lower Upper

83 100

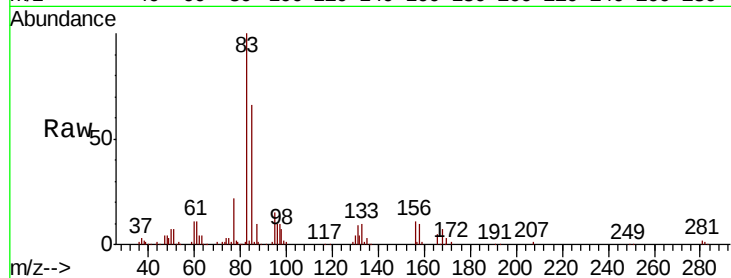
131 9.8 4.9 14.6

85 65.2 32.4 97.2

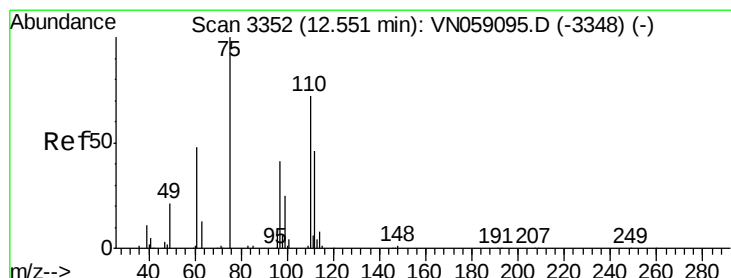
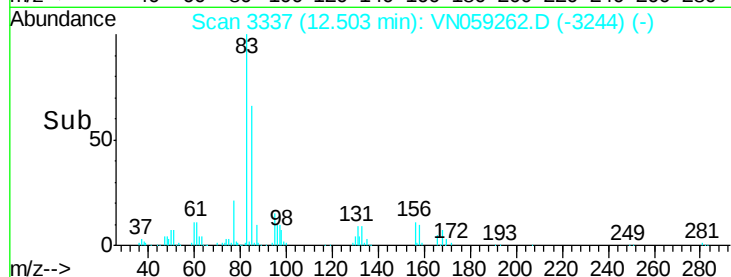
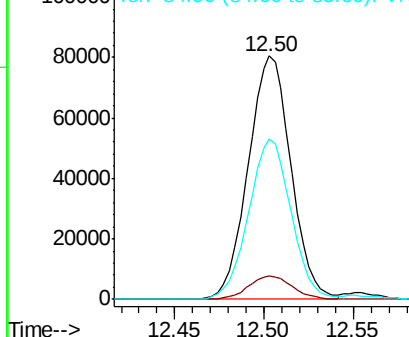
Manual Integrations
APPROVED

MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 20.912 ug/l m

RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

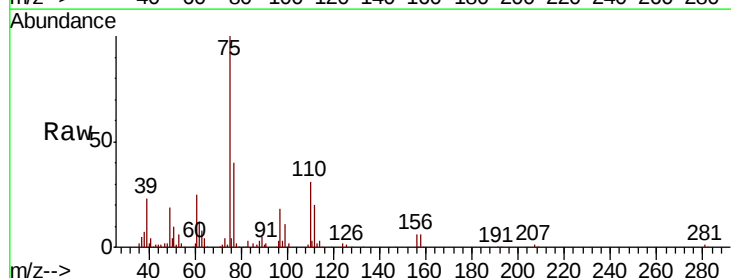
Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

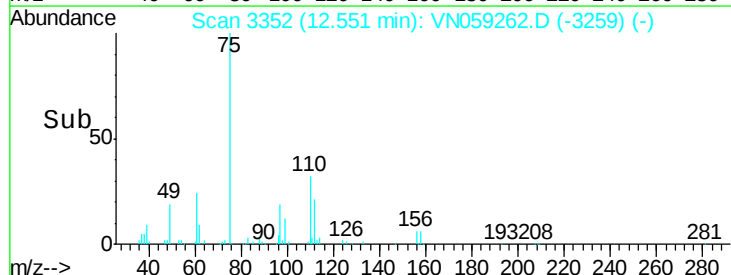
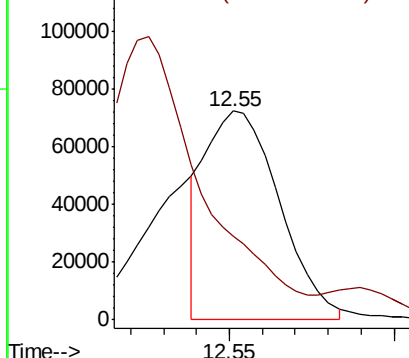
Tgt Ion: 75 Resp: 113798
Ion Ratio Lower Upper

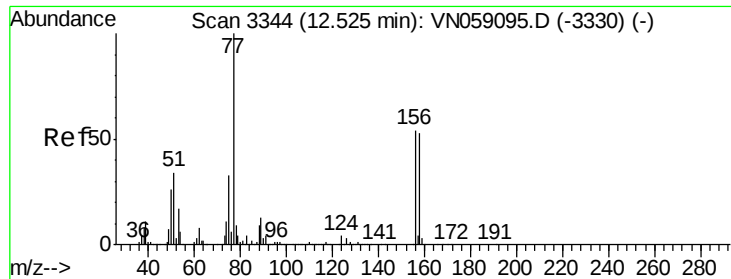
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 21.446 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

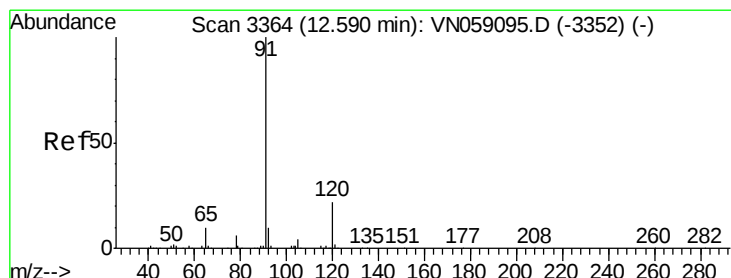
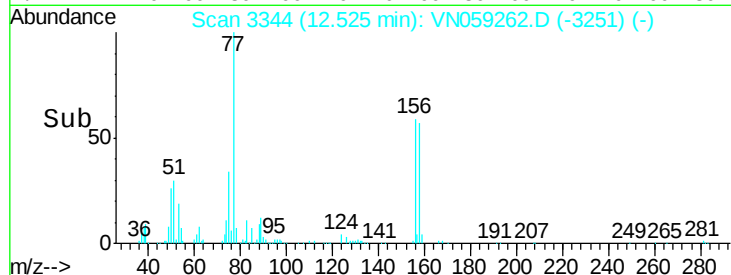
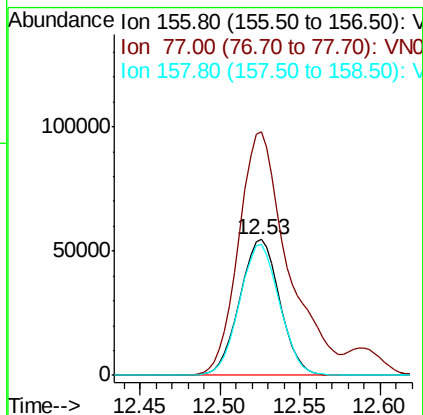
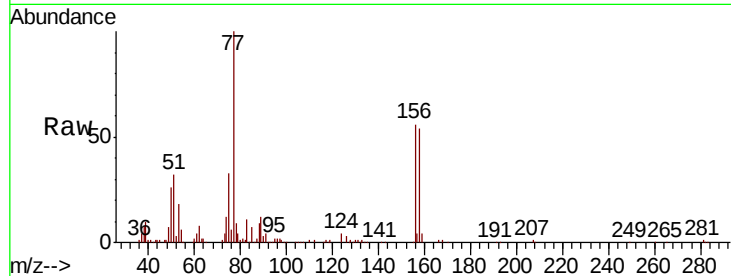
ClientSampleId :

VN1115MBS01

Tot Ion:	156	Resp:	93681
Ion Ratio	Lower	Upper	
156	100		
77	221.1	112.8	338.3
158	96.4	48.4	145.3

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#78

n-propylbenzene

Concen: 21.851 ug/l

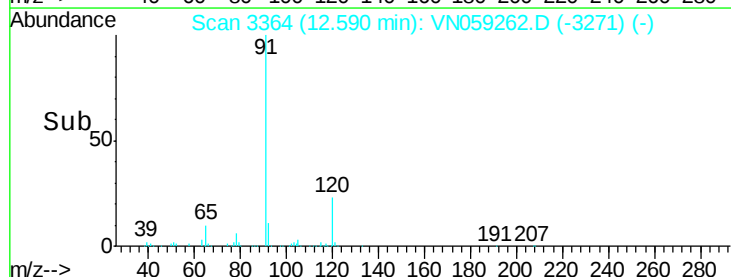
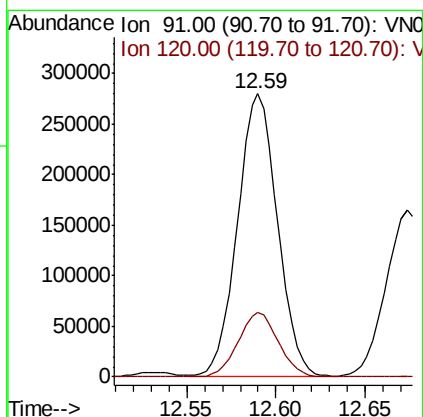
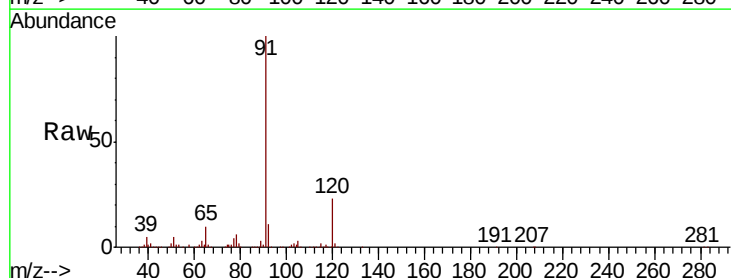
RT: 12.59 min Scan# 3364

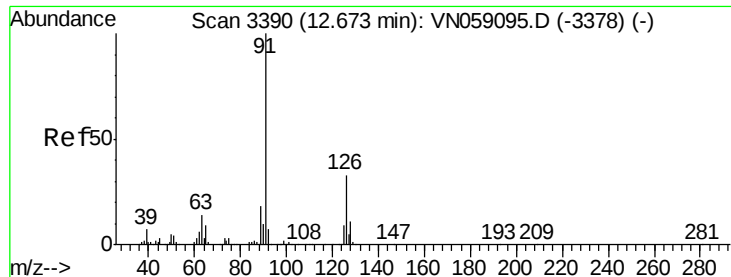
Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion:	91	Resp:	434996
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.2	33.5





#79

2-Chlorotoluene

Concen: 21.722 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion: 91 Resp: 268256

Ion Ratio Lower Upper

91 100

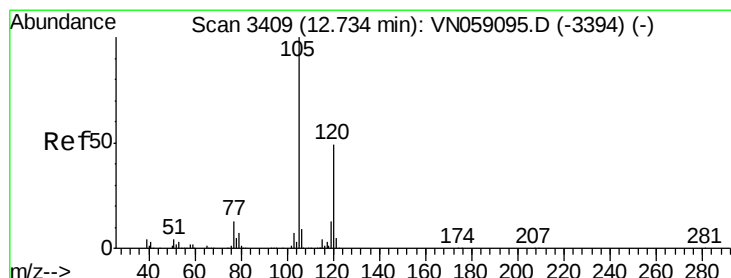
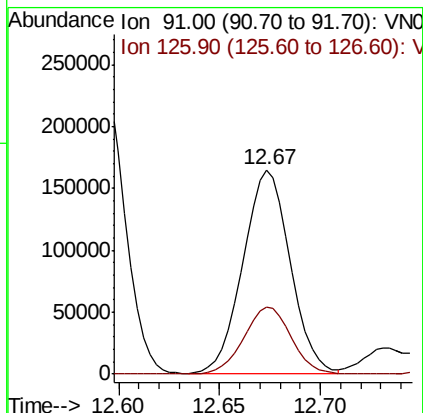
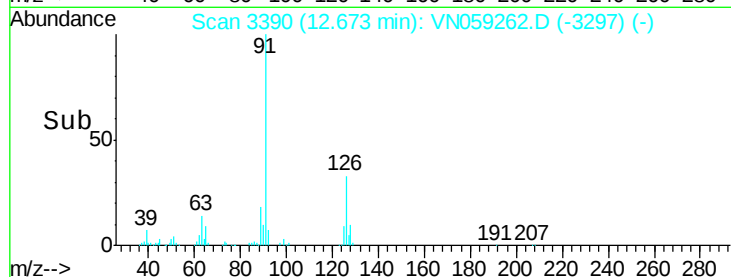
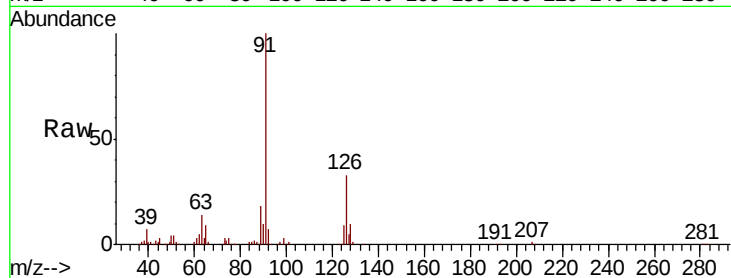
126 33.5 16.7 50.1

Manual Integrations

APPROVED

MMDadoda

11/18/2019 3:09:41 PM



#80

1,3,5-Trimethylbenzene

Concen: 22.144 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN059262.D

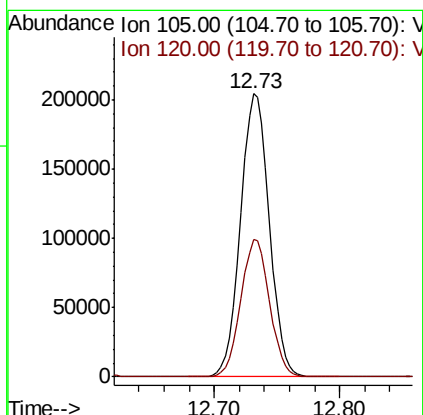
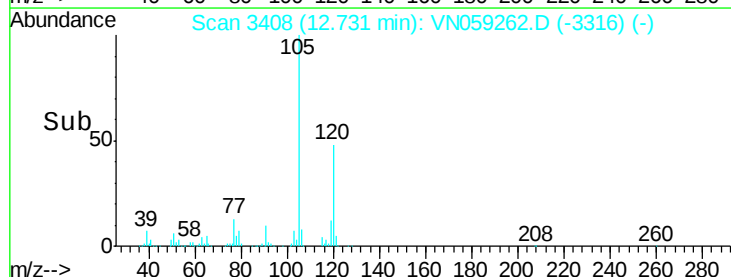
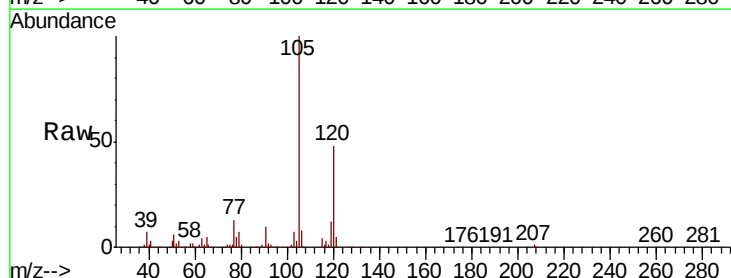
Acq: 15 Nov 2019 13:51

Tgt Ion: 105 Resp: 326243

Ion Ratio Lower Upper

105 100

120 48.5 24.0 72.0





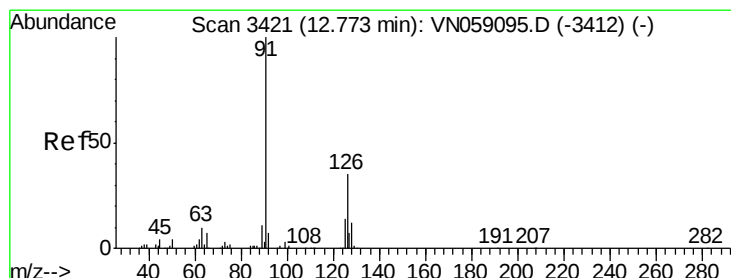
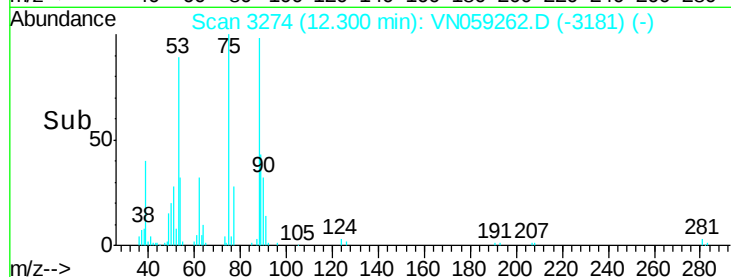
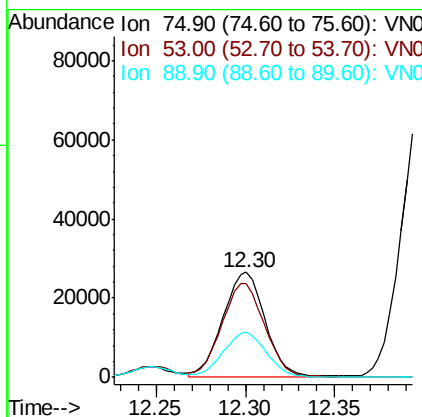
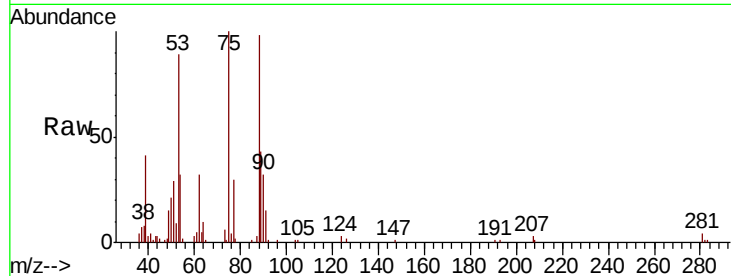
#81
trans-1,4-Dichloro-2-butene
Concen: 21.143 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	92.0	72.2	108.2
89	44.1	35.8	53.8

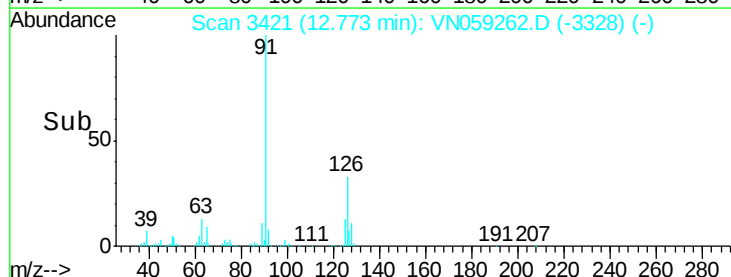
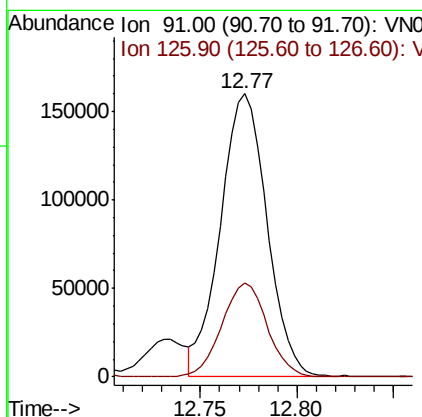
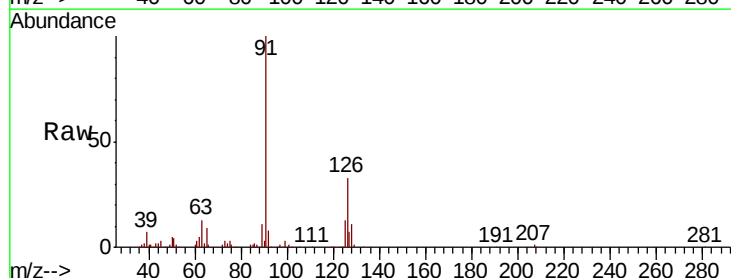
Manual Integrations
APPROVED

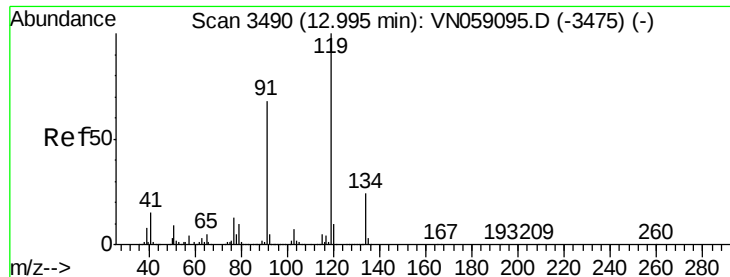
MMDadoda
11/18/2019 3:09:41 PM



#82
4-Chlorotoluene
Concen: 21.483 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.2





#83

tert-Butylbenzene

Concen: 21.798 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

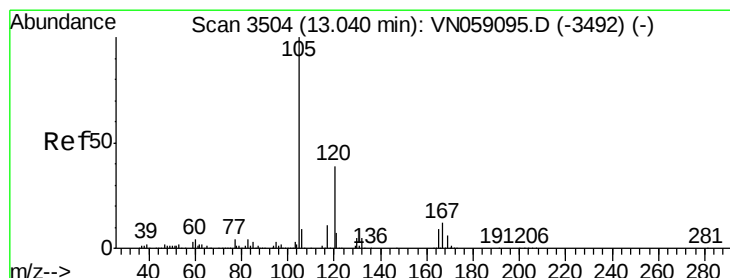
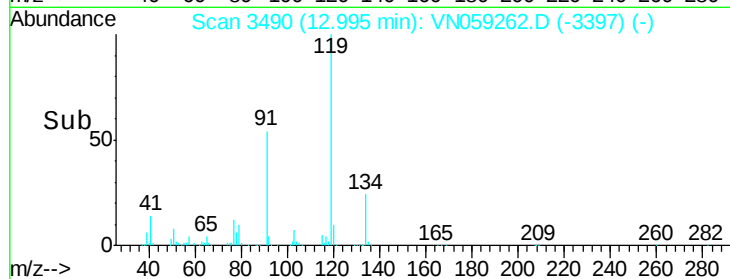
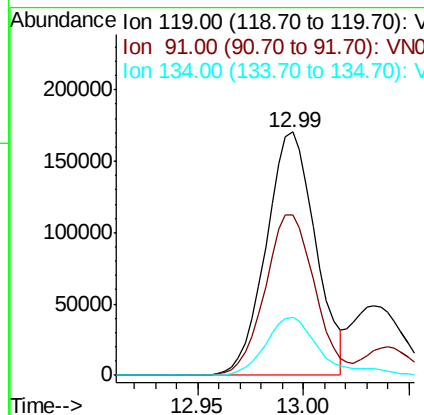
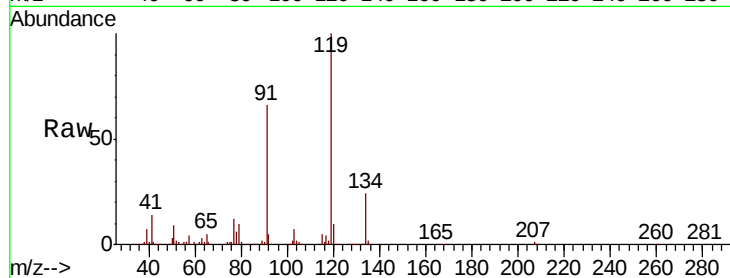
ClientSampleId :

VN1115MBSD01

Tot Ion:	119	Resp:	277326
Ion Ratio	Lower	Upper	
119	100		
91	66.8	33.2	99.6
134	26.4	12.7	38.1

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#84

1,2,4-Trimethylbenzene

Concen: 22.219 ug/l

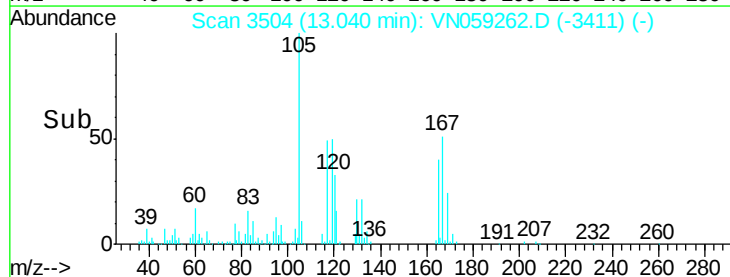
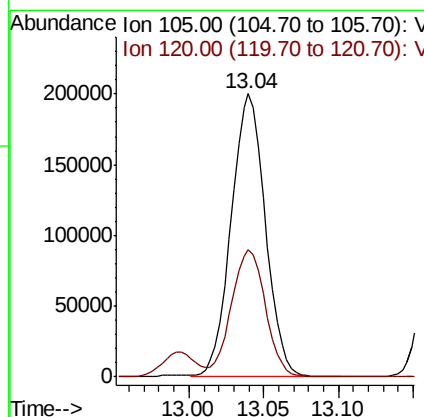
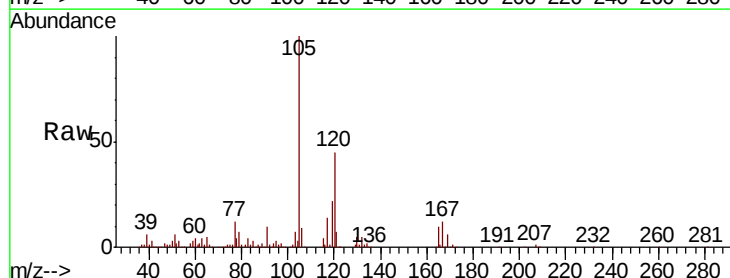
RT: 13.04 min Scan# 3504

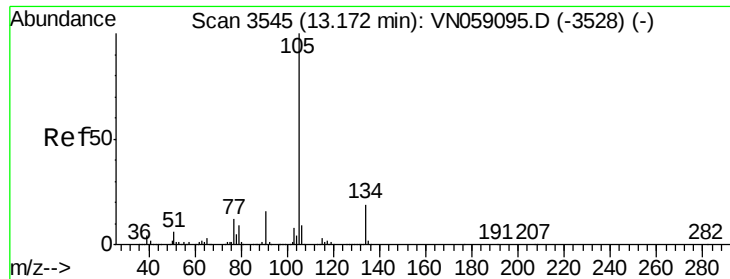
Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion:	105	Resp:	316696
Ion Ratio	Lower	Upper	
105	100		
120	45.4	22.8	68.4





#85

sec-Butylbenzene

Concen: 22.248 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

VN1115MBSD01

Tot Ion:105 Resp: 368132

Ion Ratio Lower Upper

105 100

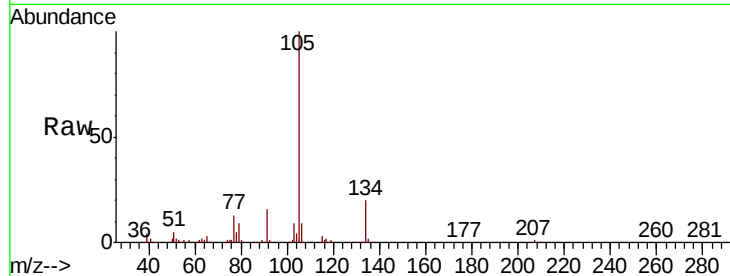
134 19.6 9.7 29.1

Manual Integrations

APPROVED

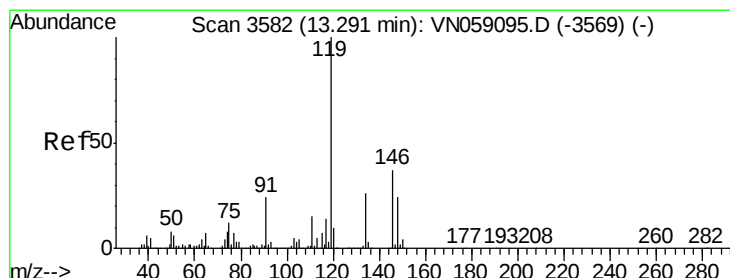
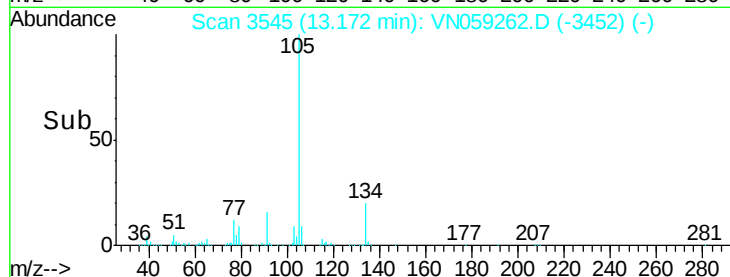
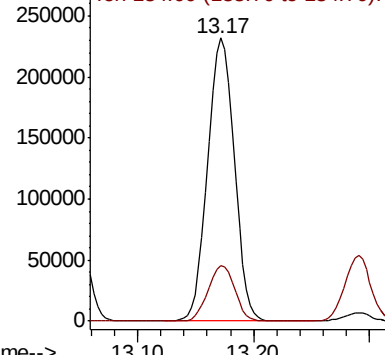
MMDadoda

11/18/2019 3:09:41 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.306 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

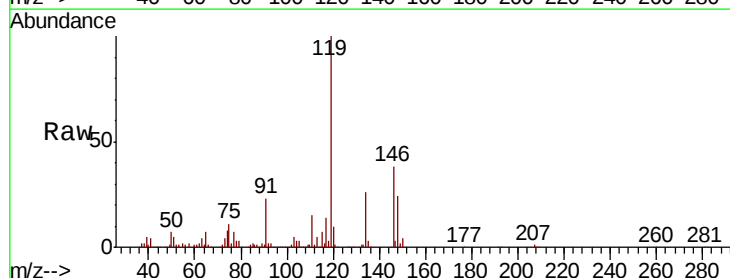
Tgt Ion:119 Resp: 325895

Ion Ratio Lower Upper

119 100

134 25.8 13.0 38.9

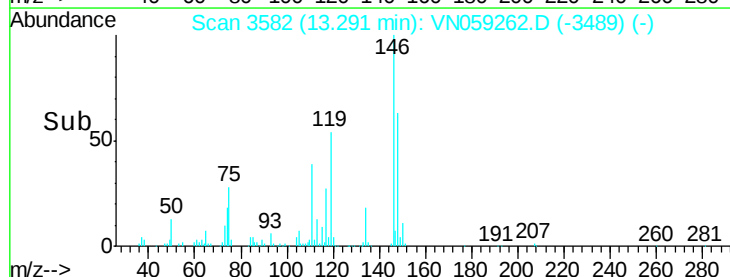
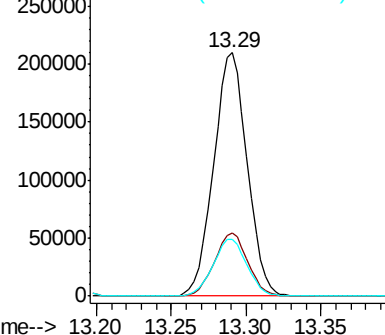
91 23.8 11.7 35.1



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





#87

1,3-Dichlorobenzene

Concen: 21.626 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059262.D

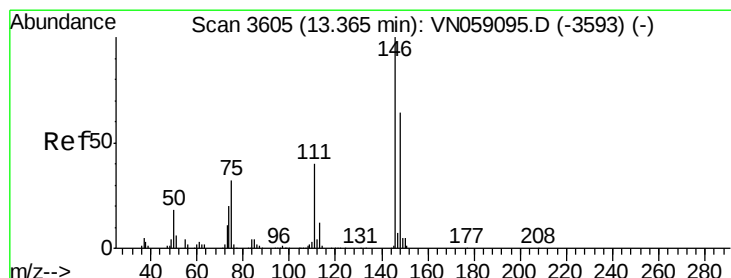
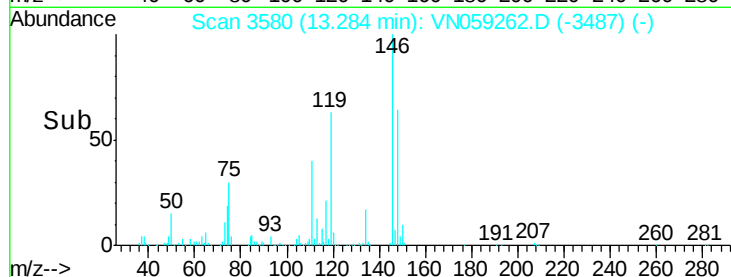
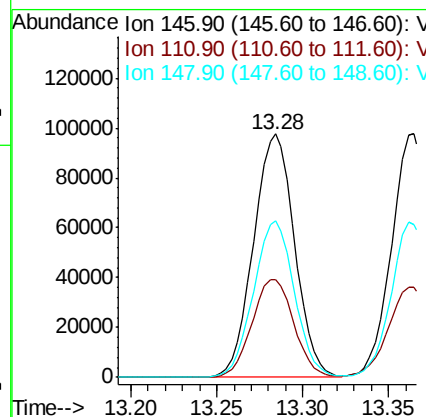
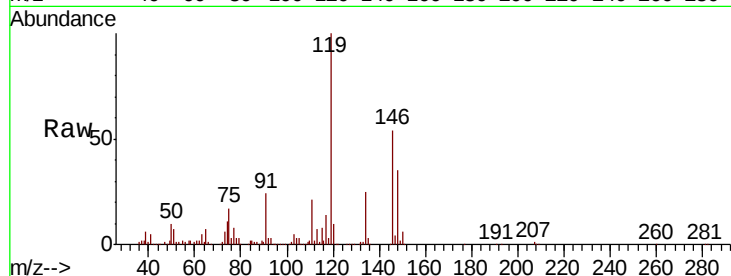
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.4	61.3
148	63.9	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#88

1,4-Dichlorobenzene

Concen: 21.380 ug/l

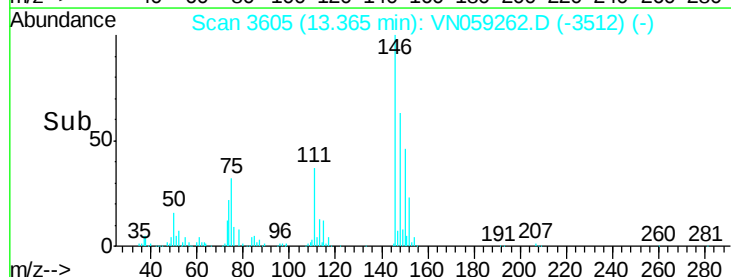
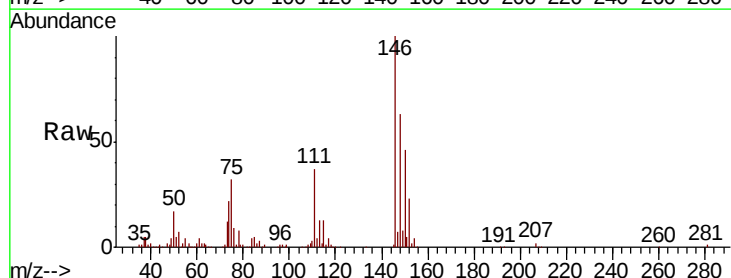
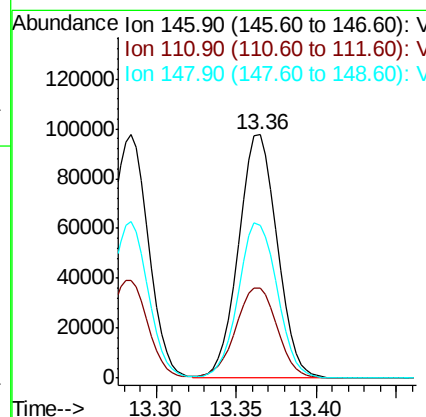
RT: 13.36 min Scan# 3605

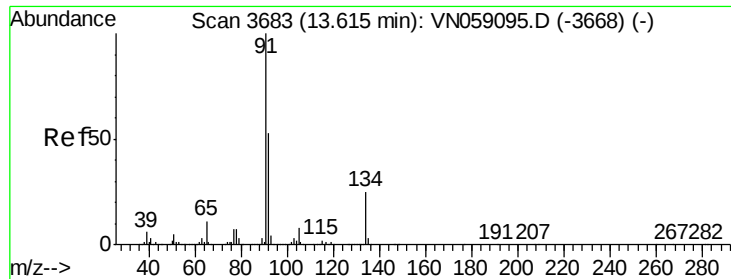
Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.3	60.9
148	64.5	31.9	95.7





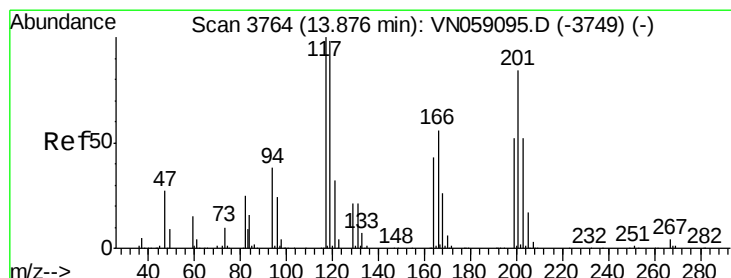
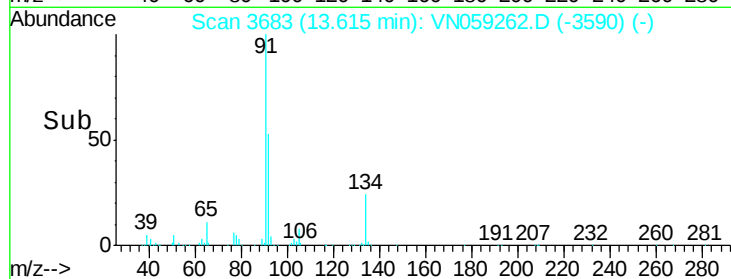
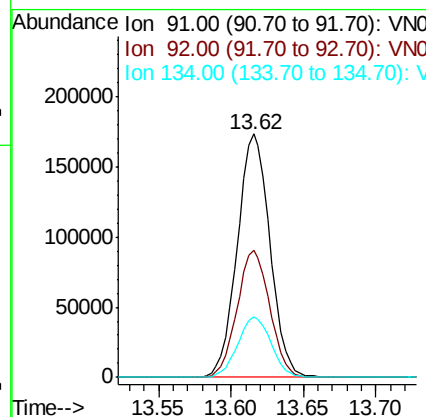
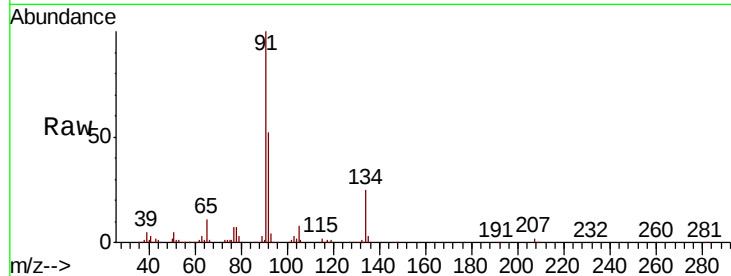
#89
n-Butylbenzene
Concen: 21.159 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Instrument :
MSVOA_N
ClientSampleId :
VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.1	78.3
134	25.5	12.6	37.8

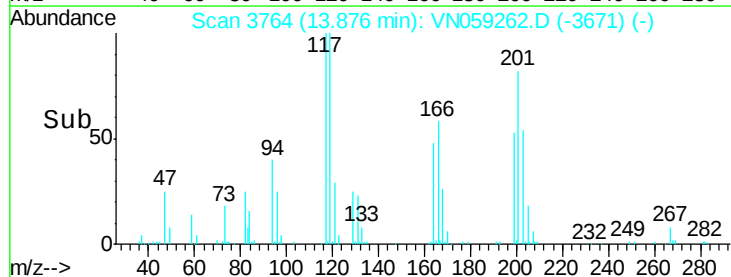
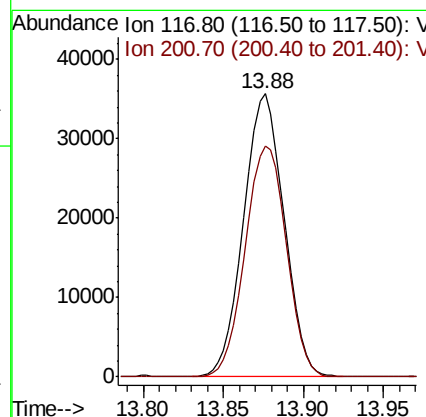
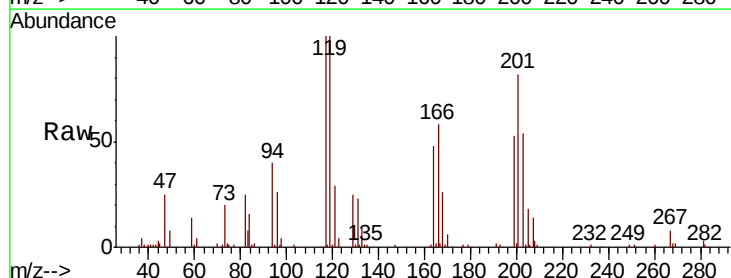
Manual Integrations
APPROVED

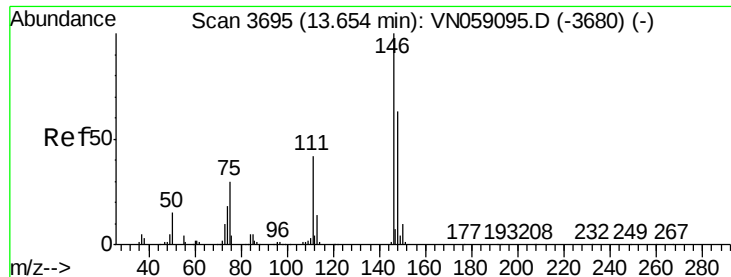
MMDadoda
11/18/2019 3:09:41 PM



#90
Hexachloroethane
Concen: 21.042 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059262.D
Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.8	41.8	125.3





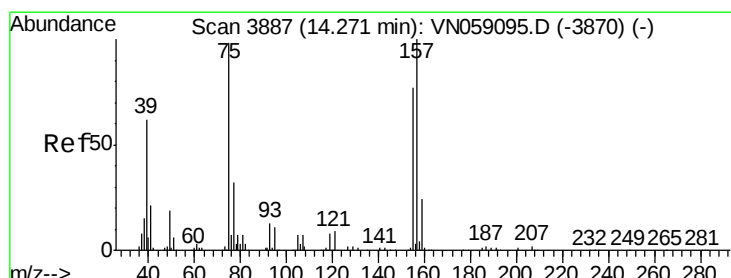
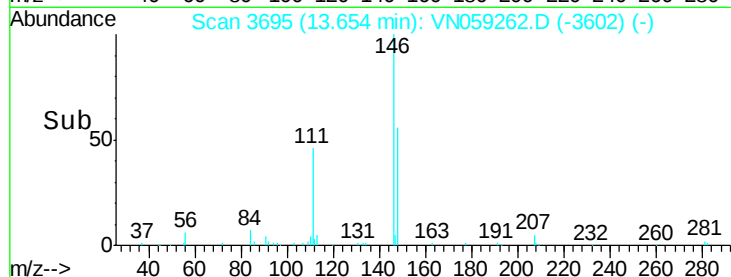
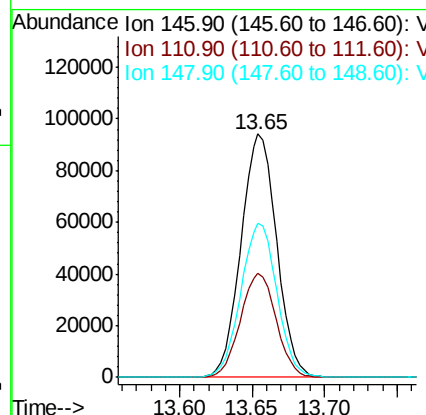
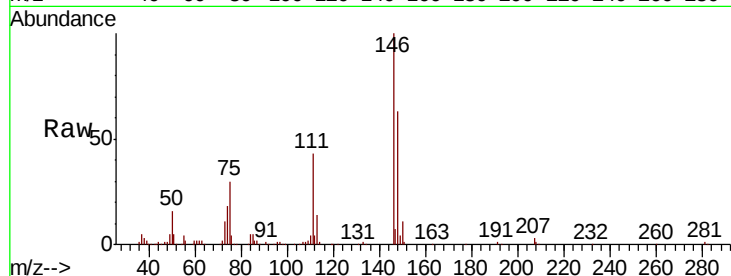
#91
 1,2-Dichlorobenzene
 Concen: 21.882 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.2	63.6
148	64.1	31.6	94.7

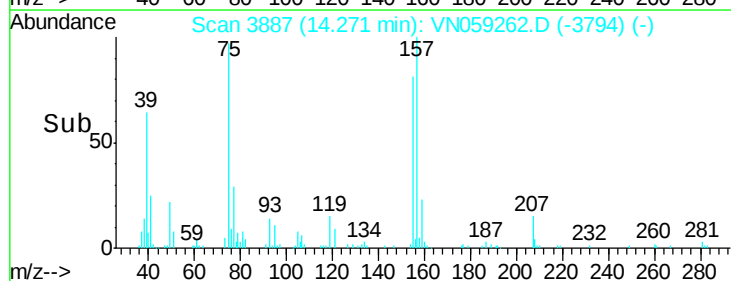
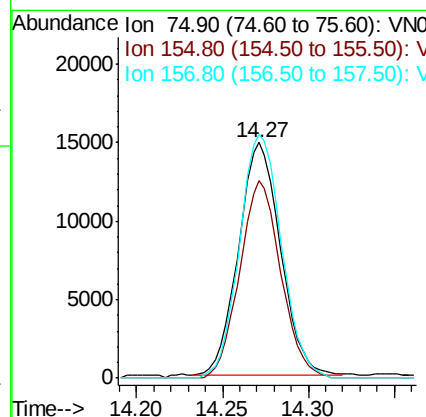
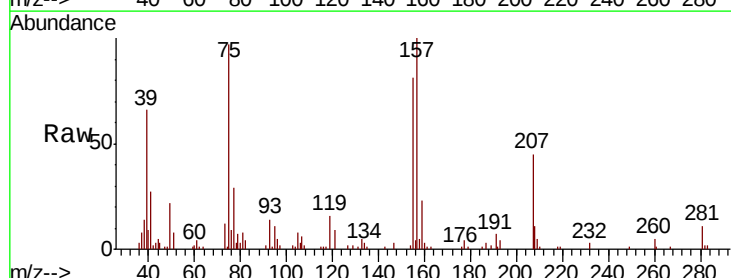
Manual Integrations
 APPROVED

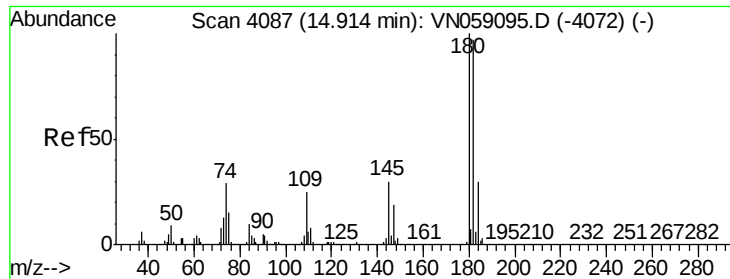
MMDadoda
 11/18/2019 3:09:41 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.250 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.0	40.2	120.6
157	105.0	51.8	155.5





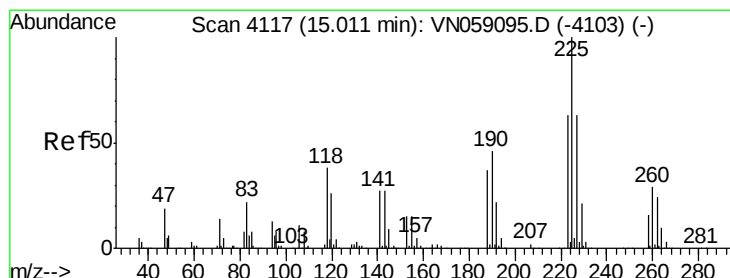
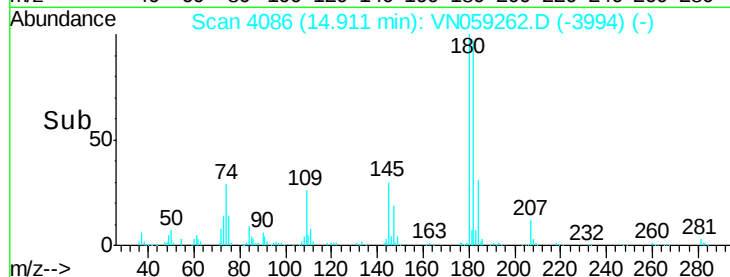
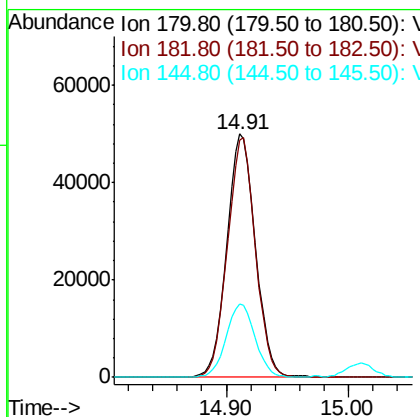
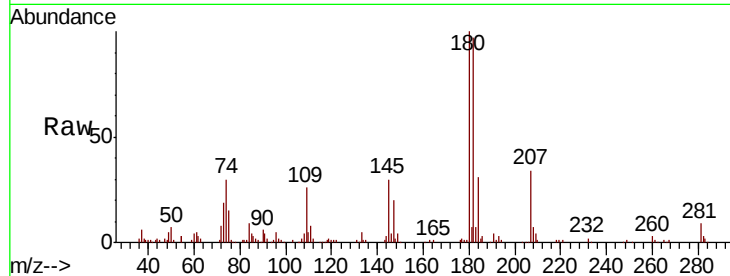
#93
 1,2,4-Trichlorobenzene
 Concen: 20.313 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	82086		
182	95.8	48.1	144.3	
145	29.8	15.1	45.3	

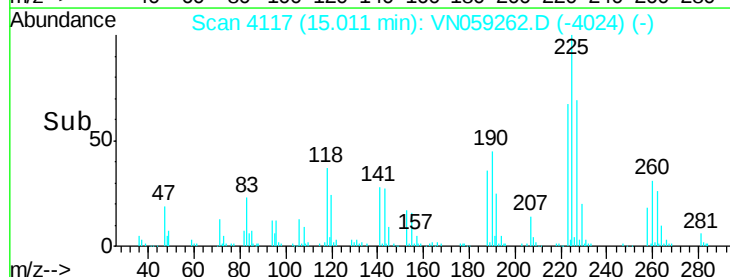
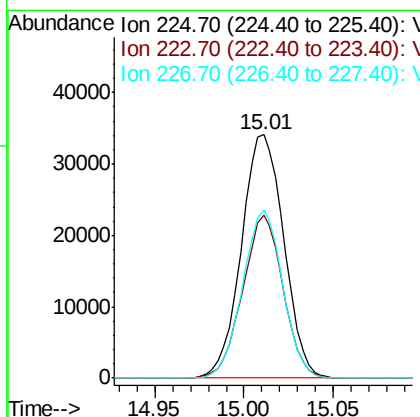
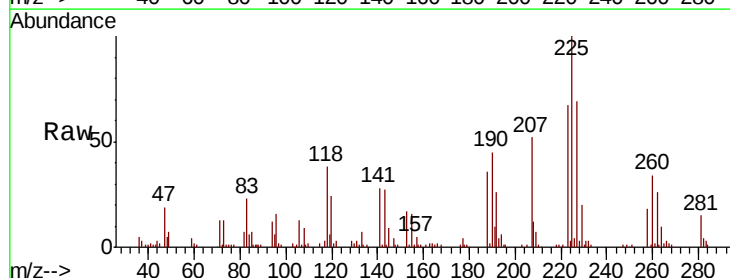
Manual Integrations
 APPROVED

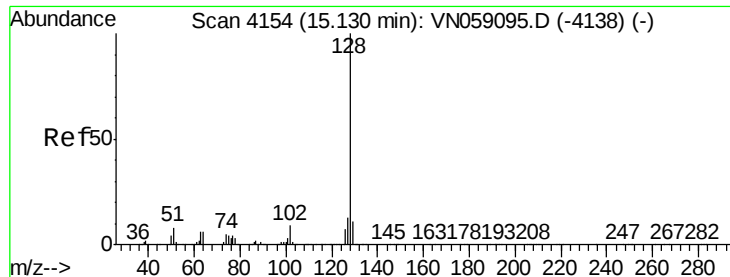
MMDadoda
 11/18/2019 3:09:41 PM



#94
 Hexachlorobutadiene
 Concen: 22.289 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN059262.D
 Acq: 15 Nov 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	56552		
223	63.6	31.3	93.9	
227	65.2	31.5	94.5	





#95

Naphthalene

Concen: 19.748 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Instrument :

MSVOA_N

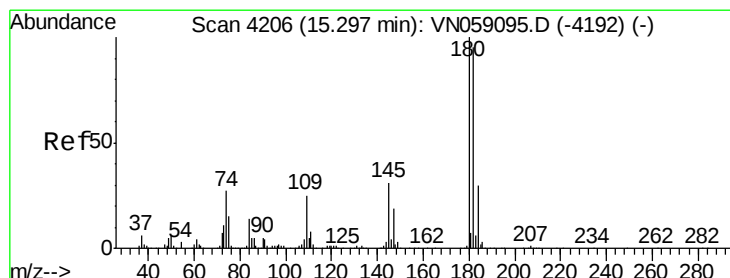
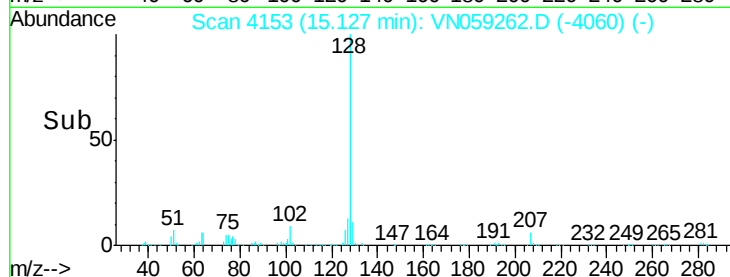
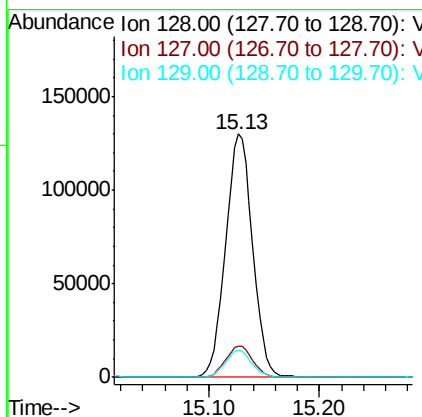
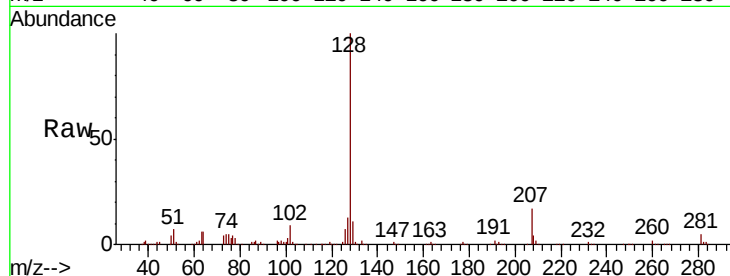
ClientSampleId :

VN1115MBSD01

Tot Ion:	128	Resp:	220302
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.2	15.2
129	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/18/2019 3:09:41 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.714 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN059262.D

Acq: 15 Nov 2019 13:51

Tgt Ion:	180	Resp:	85418
Ion Ratio	Lower	Upper	
180	100		
182	95.8	47.3	141.8
145	31.9	15.8	47.3

