

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111319\
 Data File : VY000667.D
 Acq On : 13 Nov 2019 12:59
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:59:18 AM

Quant Time: Nov 14 08:12:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111219S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 13 16:30:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	341626	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	309637	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	145652	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	111846	23.18	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.72%
7) Chloroethane-d5	2.77	69	102068	23.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.24%
10) 1,1-Dichloroethene-d2	3.86	63	151679	17.02	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	68.08%
20) 2-Butanone-d5	6.90	46	102667	51.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.14%
24) Chloroform-d	7.49	84	201779	22.51	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.04%
26) 1,2-Dichloroethane-d4	8.15	65	124850	24.02	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.08%
29) Benzene-d6	8.12	84	432561	24.06	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.24%
33) 1,2-Dichloropropane-d6	9.13	67	134004	23.78	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.12%
37) Toluene-d8	10.18	98	389102	23.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.64%
38) trans-1,3-Dichloropropene-	10.44	79	63005	23.96	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.84%
39) 2-Hexanone-d5	10.79	63	75017	49.25	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.50%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	127356	23.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.92%
61) 1,2-Dichlorobenzene-d4	13.72	152	136512	23.44	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.91	85	2735	0.606	ug/L	89
3) Chloromethane	2.12	50	3186	0.563	ug/L	89
5) Vinyl chloride	2.26	62	3567	0.632	ug/L #	39
6) Bromomethane	2.66	94	1974	0.640	ug/L	99
8) Chloroethane	2.80	64	1895	0.535	ug/L	99
9) Trichlorofluoromethane	3.13	101	4549m	0.569	ug/L	
11) 1,1,2-Trichloro-1,2,2-trif	3.91	101	2804m	0.618	ug/L	
12) 1,1-Dichloroethene	3.87	96	3726m	0.841	ug/L	
13) Acetone	3.96	43	4766	3.272	ug/L	95
14) Carbon disulfide	4.21	76	6587	0.482	ug/L	98
15) Methyl Acetate	4.49	43	1710	0.512	ug/L	96
16) Methylene chloride	4.74	84	12754m	2.262	ug/L	
17) Methyl tert-butyl Ether	5.22	73	6769m	0.502	ug/L	
18) trans-1,2-Dichloroethene	5.23	96	2961m	0.599	ug/L	
19) 1,1-Dichloroethane	6.04	63	4623	0.531	ug/L #	84
22) cis-1,2-Dichloroethene	7.00	96	3150m	0.576	ug/L	
23) Bromochloromethane	7.35	128	1470	0.615	ug/L #	67

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111319\
 Data File : VY000667.D
 Acq On : 13 Nov 2019 12:59
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:59:18 AM

Quant Time: Nov 14 08:12:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111219S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 13 16:30:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

25) Chloroform	7.52	83	11660	1.243	ug/L	92
27) 1,2-Dichloroethane	8.25	62	3617	0.577	ug/L #	93
30) Cyclohexane	7.80	56	4755	0.563	ug/L #	37
31) 1,1,1-Trichloroethane	7.71	97	3527	0.462	ug/L #	81
32) Carbon tetrachloride	7.90	117	3612m	0.543	ug/L	
34) Benzene	8.17	78	10248	0.506	ug/L	100
35) Trichloroethene	8.96	95	2949	0.556	ug/L #	78
36) Methylcyclohexane	9.19	83	4322	0.476	ug/L	93
40) 1,2-Dichloropropane	9.22	63	2628	0.512	ug/L #	95
41) Bromodichloromethane	9.51	83	4010	0.607	ug/L #	69
42) cis-1,3-Dichloropropene	9.93	75	3971	0.480	ug/L #	79
43) 4-Methyl-2-pentanone	10.08	43	6559	1.337	ug/L	95
44) Toluene	10.25	91	12640	0.578	ug/L	93
45) trans-1,3-Dichloropropene	10.47	75	2852	0.402	ug/L	92
46) 1,1,2-Trichloroethane	10.64	97	2157	0.513	ug/L	82
47) Tetrachloroethene	10.72	164	2328	0.587	ug/L #	72
49) 2-Hexanone	10.83	43	6203	1.623	ug/L #	93
50) Dibromochloromethane	10.99	129	2202	0.463	ug/L #	62
51) 1,2-Dibromoethane	11.10	107	2235	0.546	ug/L #	62
52) Chlorobenzene	11.52	112	6778	0.488	ug/L	98
53) Ethylbenzene	11.60	91	12570	0.508	ug/L	92
54) m,p-Xylene	11.70	106	5155	0.550	ug/L	100
55) o-xylene	12.03	106	4939	0.537	ug/L	89
56) Styrene	12.05	104	6508	0.426	ug/L	90
57) Isopropylbenzene	12.33	105	11215	0.469	ug/L #	94
58) 1,1,1,2,2-Tetrachloroethane	12.58	83	3731	0.711	ug/L #	85
59) 1,2,3-Trichloropropane	12.64	75	2265	0.531	ug/L	98
62) Bromoform	12.21	173	1249	0.452	ug/L #	77
63) 1,3-Dichlorobenzene	13.36	146	6097	0.587	ug/L #	78
64) 1,4-Dichlorobenzene	13.45	146	6282	0.605	ug/L	95
65) 1,2-Dichlorobenzene	13.74	146	5416	0.563	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.36	75	483m	0.528	ug/L	
67) 1,3,5-Trichlorobenzene	14.50	180	3997	0.552	ug/L	96
68) 1,2,4-trichlorobenzene	15.00	180	4097	0.633	ug/L #	84
69) Naphthalene	15.24	128	8638	0.535	ug/L	98
70) 1,2,3-Trichlorobenzene	15.42	180	3452	0.574	ug/L #	90

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

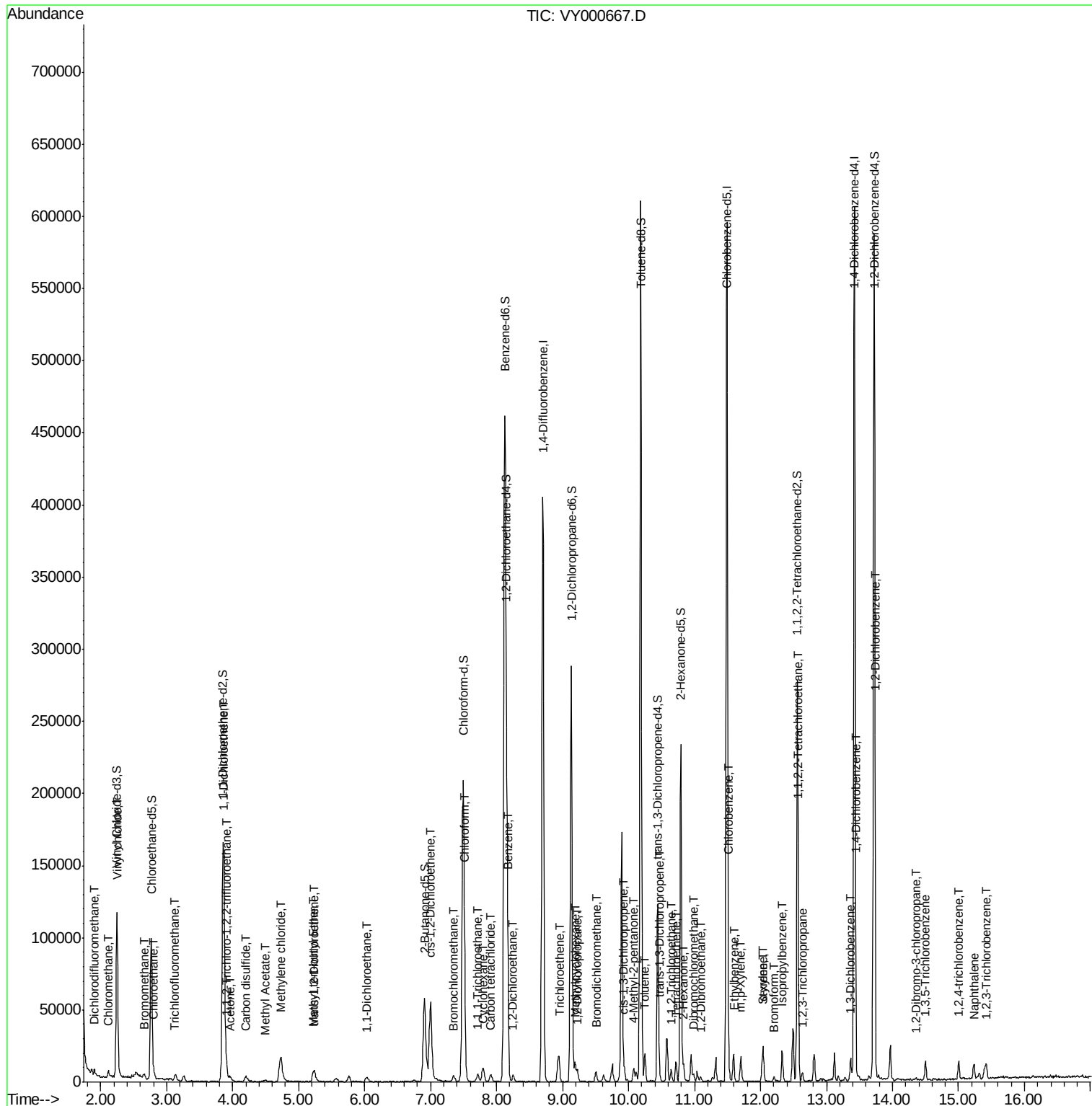
Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111319\
Data File : VY000667.D
Acq On : 13 Nov 2019 12:59
Operator : SY/MD
Sample : MDL04
Misc : 5.00G/10ML/MSVOA Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

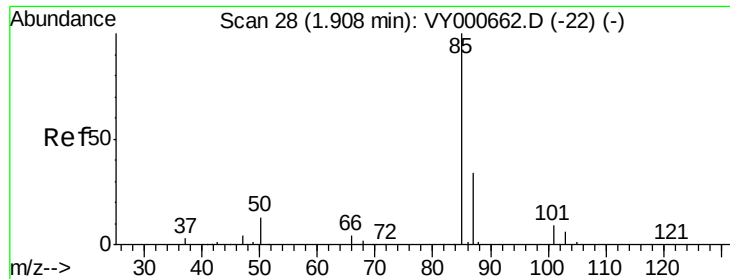
Instrument :
MSVOA_Y
ClientSampleId :
MDL04

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM

Quant Time: Nov 14 08:12:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111219S.M
Quant Title : VOC Analysis
QLast Update : Wed Nov 13 16:30:20 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.606 ug/L

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

ClientSampled :

MDL04

Tot Ion: 85 Resp: 2735

Ion Ratio Lower Upper

85 100

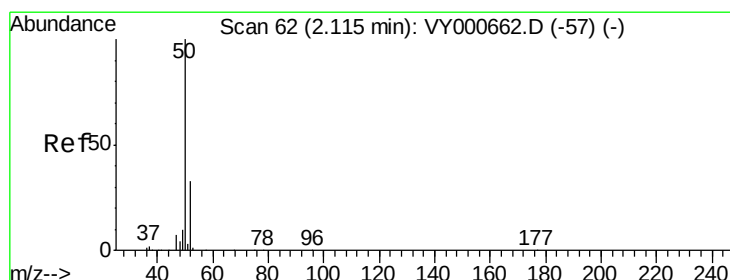
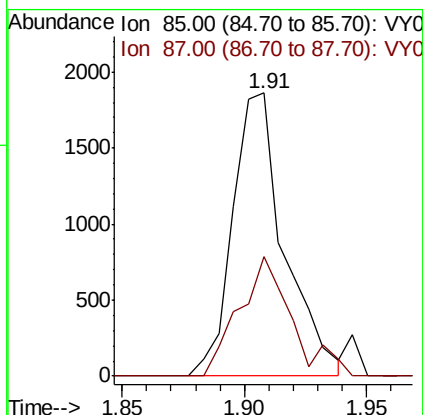
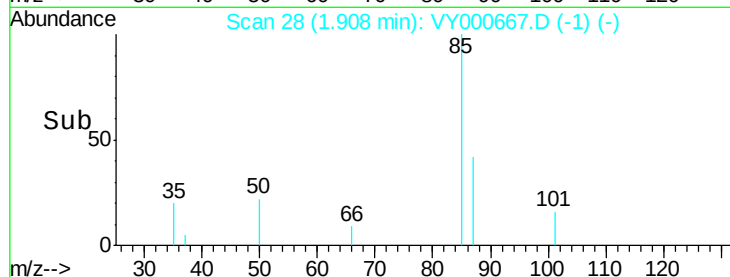
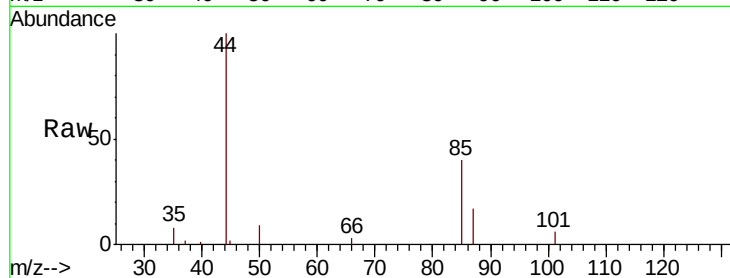
87 38.6 22.7 42.1

Manual Integrations

APPROVED

MMDADODA

11/19/2019 11:59:18 AM



#3

Chloromethane

Concen: 0.563 ug/L

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY000667.D

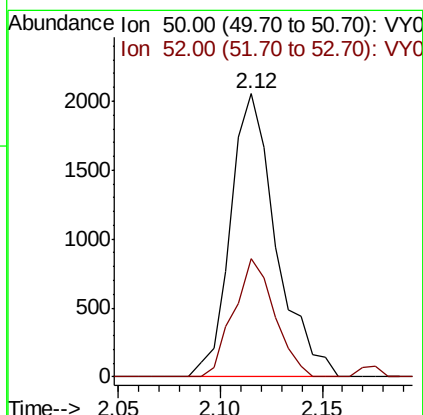
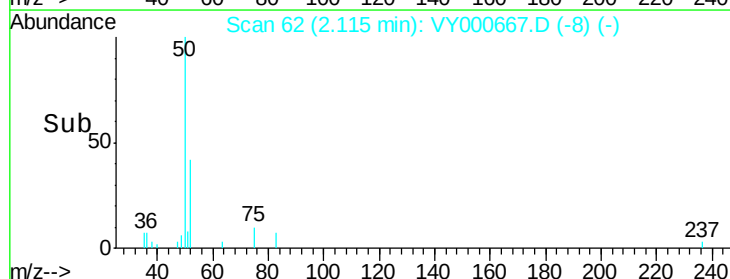
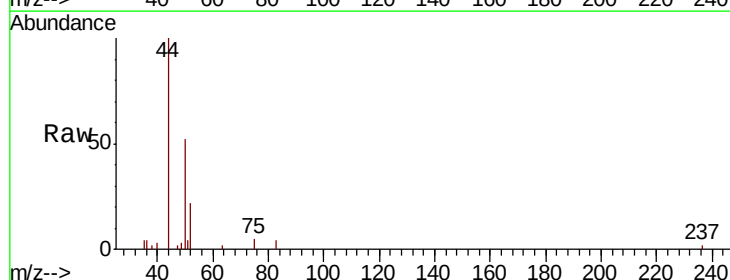
Acq: 13 Nov 2019 12:59

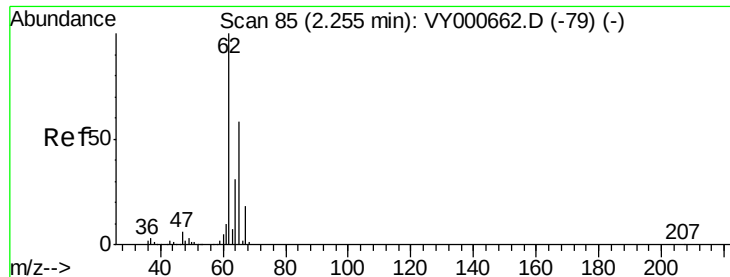
Tgt Ion: 50 Resp: 3186

Ion Ratio Lower Upper

50 100

52 41.8 24.9 46.3





#5

Vinyl chloride

Concen: 0.632 ug/L

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

ClientSampled :

MDL04

Tot Ion: 62 Resp: 3567

Ion Ratio Lower Upper

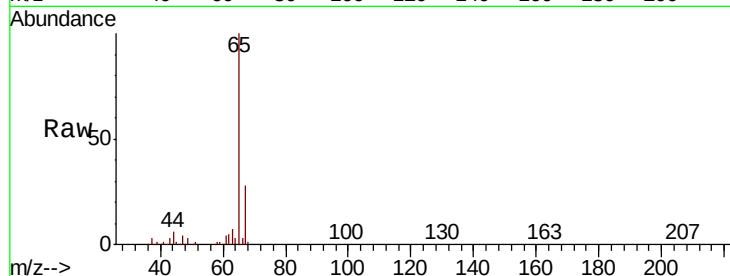
62 100

64 64.9 22.0 40.8#

Manual Integrations
APPROVED

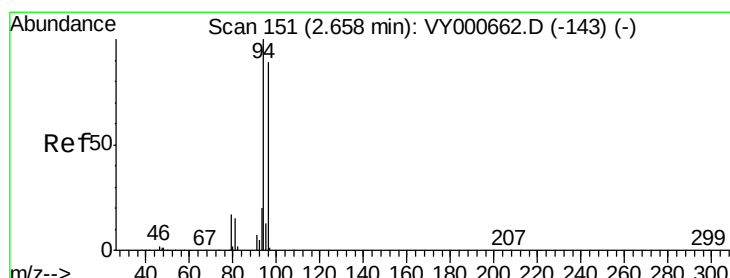
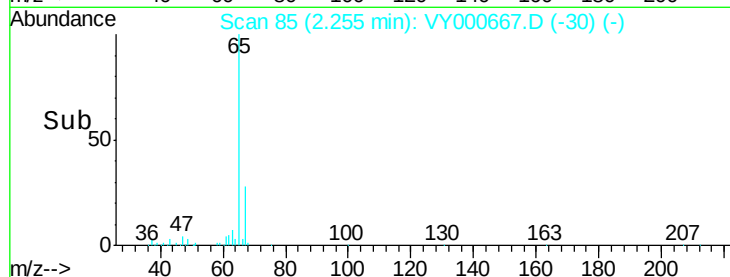
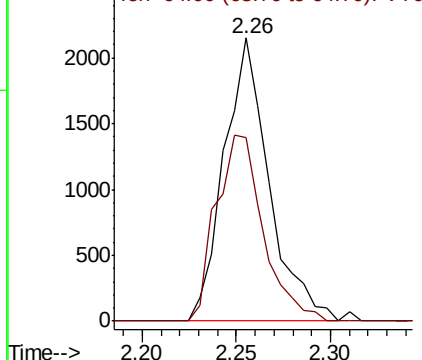
MMDADODA

11/19/2019 11:59:18 AM



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 0.640 ug/L

RT: 2.66 min Scan# 152

Delta R.T. 0.01 min

Lab File: VY000667.D

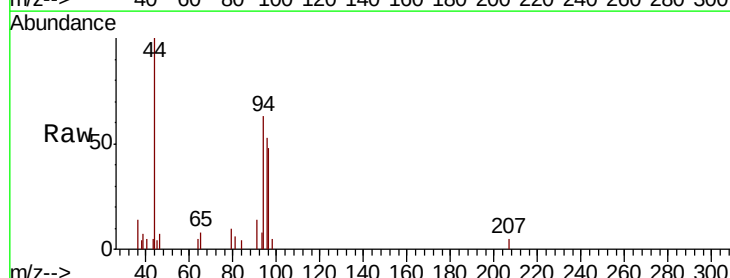
Acq: 13 Nov 2019 12:59

Tgt Ion: 94 Resp: 1974

Ion Ratio Lower Upper

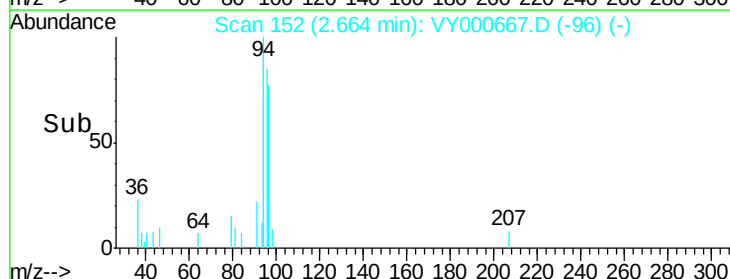
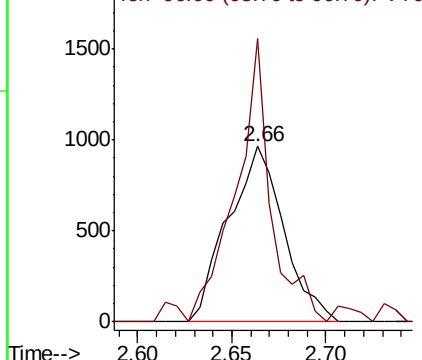
94 100

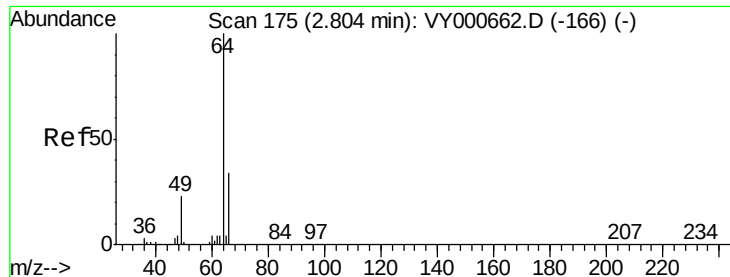
96 96.4 9.8 185.6



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0





#8

Chloroethane

Concen: 0.535 ug/L

RT: 2.80 min Scan# 175

Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL04

Tot Ion: 64 Resp: 1895

Ion Ratio Lower Upper

64 100

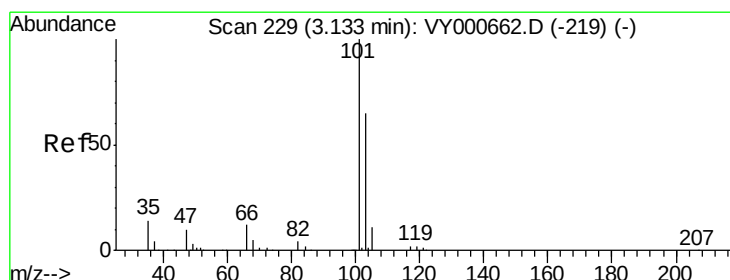
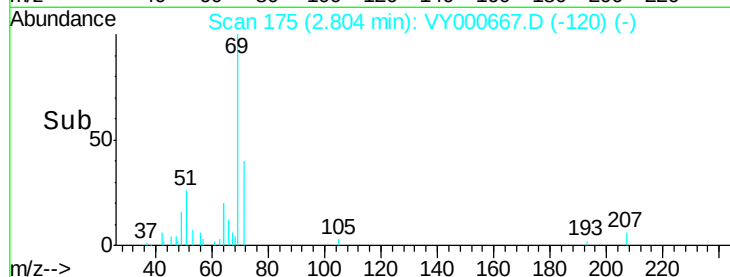
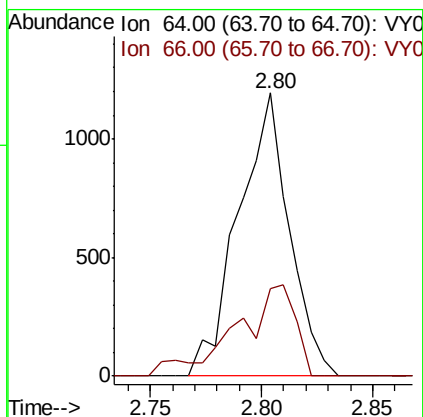
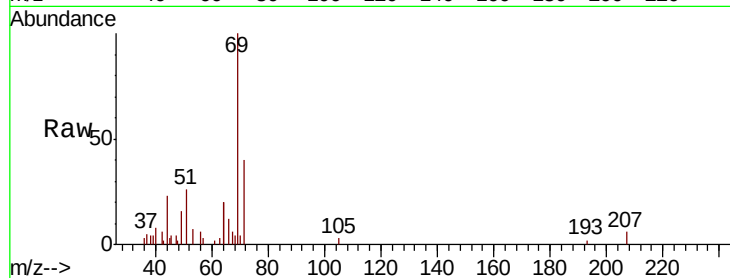
66 30.9 22.2 41.2

Manual Integrations

APPROVED

MMDADODA

11/19/2019 11:59:18 AM



#9

Trichlorofluoromethane

Concen: 0.569 ug/L m

RT: 3.13 min Scan# 228

Delta R.T. 0.00 min

Lab File: VY000667.D

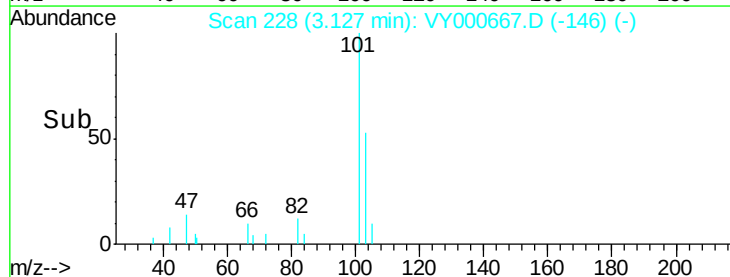
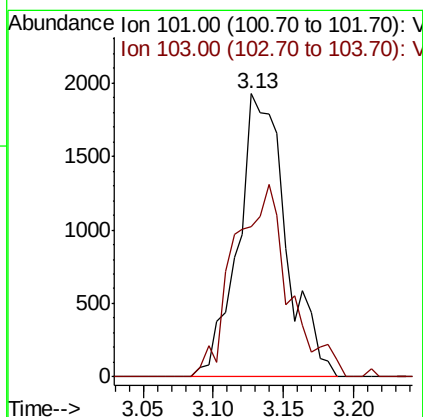
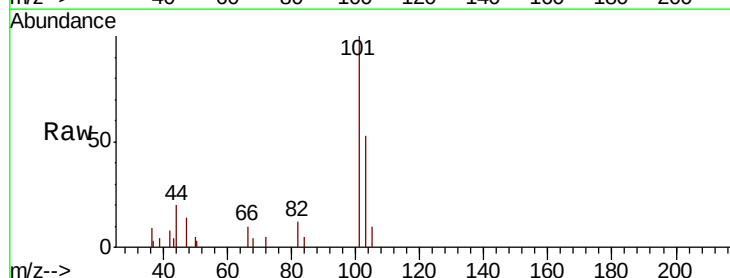
Acq: 13 Nov 2019 12:59

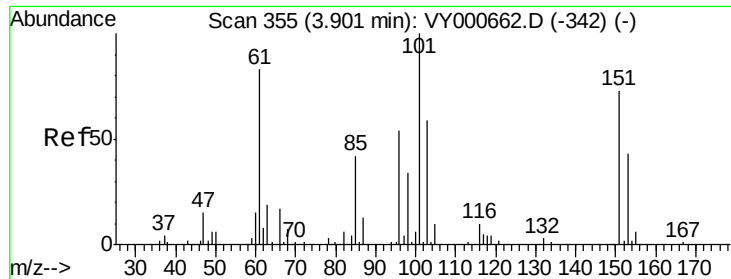
Tgt Ion: 101 Resp: 4549

Ion Ratio Lower Upper

101 100

103 70.6 45.8 85.0





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.618 ug/L m

RT: 3.91 min Scan# 357

Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

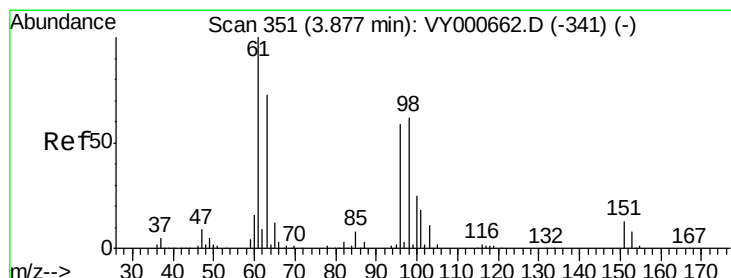
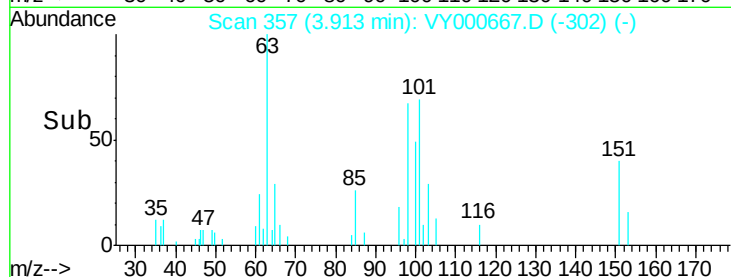
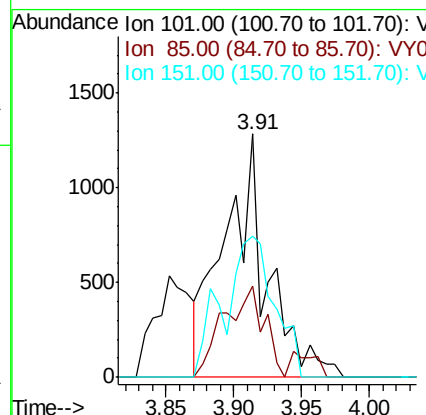
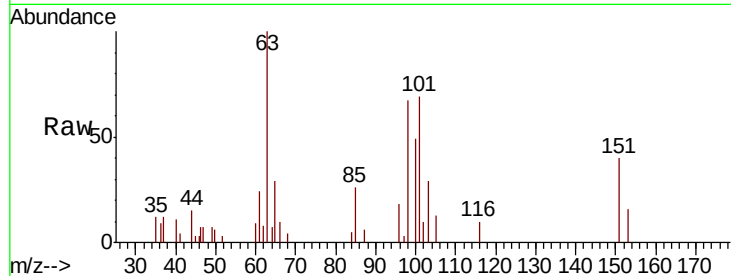
ClientSampled :

MDL04

Tot Ion:	101	Resp:	2804
Ion Ratio	Lower	Upper	
101	100		
85	19.8	35.3	52.9#
151	52.4	61.9	92.9#

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM



#12

1,1-Dichloroethene

Concen: 0.841 ug/L m

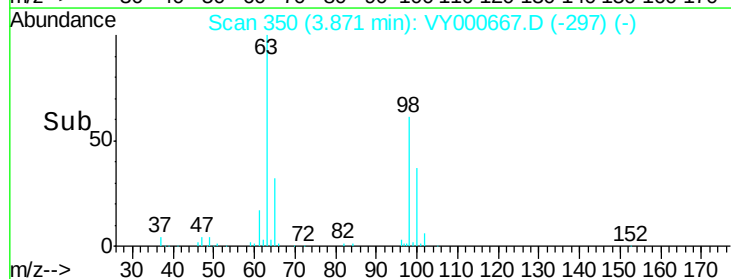
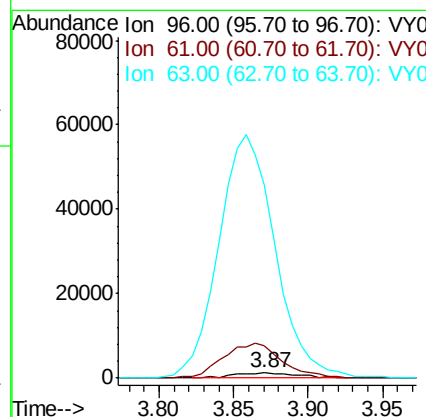
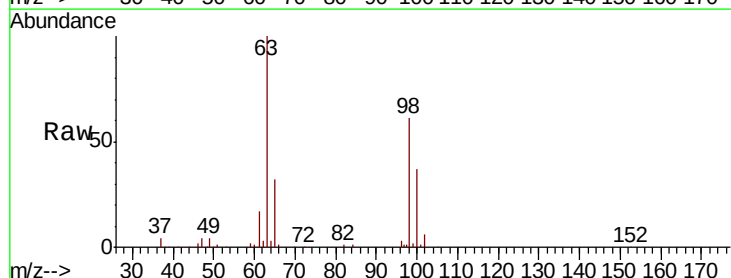
RT: 3.87 min Scan# 350

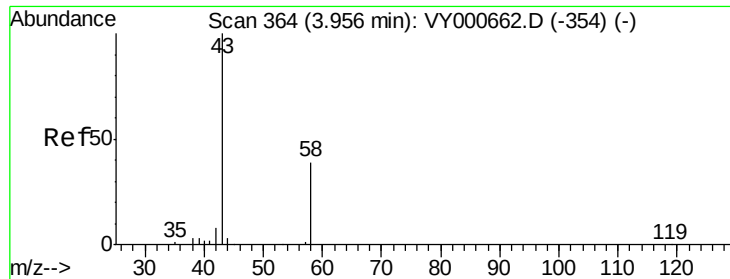
Delta R.T. -0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Tgt Ion:	96	Resp:	3726
Ion Ratio	Lower	Upper	
96	100		
61	587.7	113.5	210.9#
63	3560.2	94.3	175.1#





#13

Acetone

Concen: 3.272 ug/L

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 4766

Ion Ratio Lower Upper

43 100

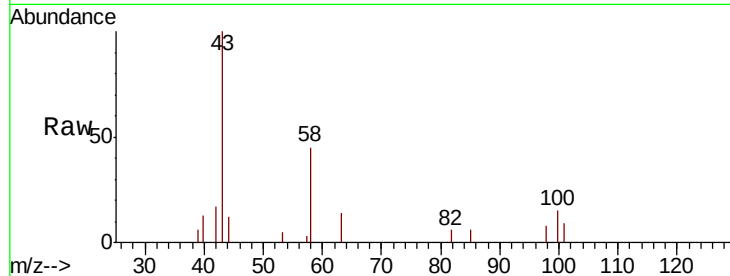
58 35.0 0.0 64.8

Manual Integrations

APPROVED

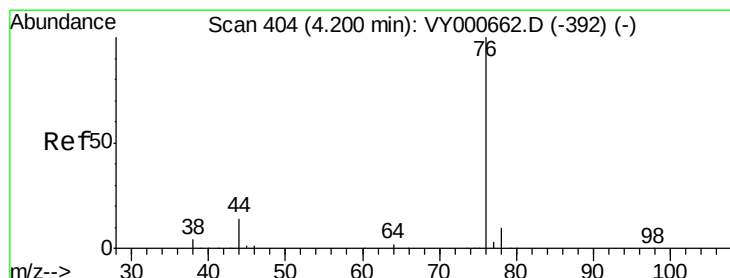
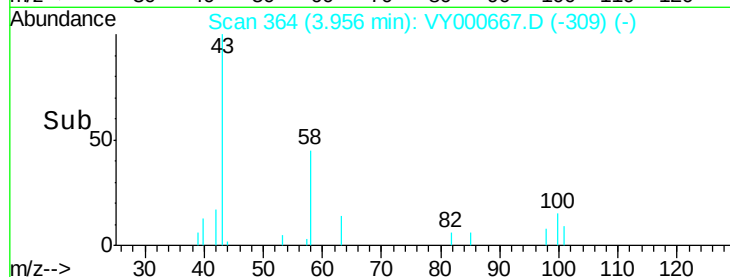
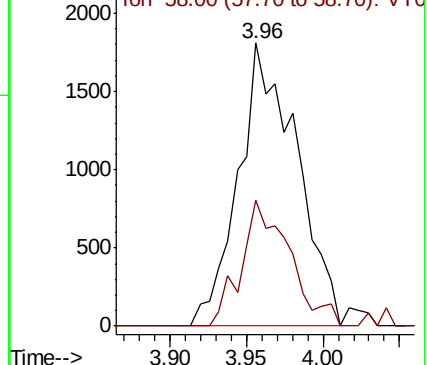
MMDADODA

11/19/2019 11:59:18 AM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 0.482 ug/L

RT: 4.21 min Scan# 405

Delta R.T. 0.01 min

Lab File: VY000667.D

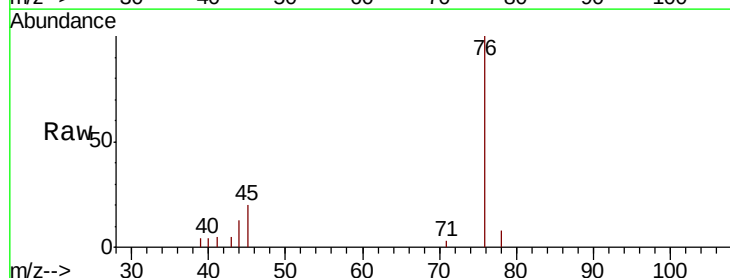
Acq: 13 Nov 2019 12:59

Tgt Ion: 76 Resp: 6587

Ion Ratio Lower Upper

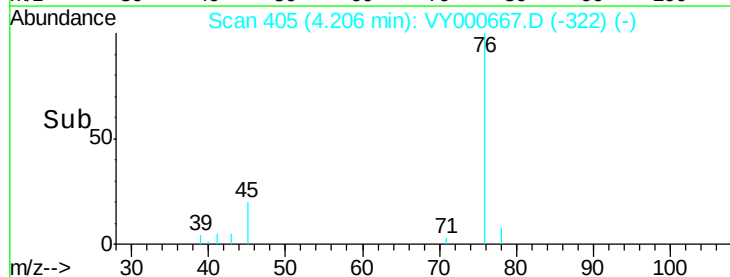
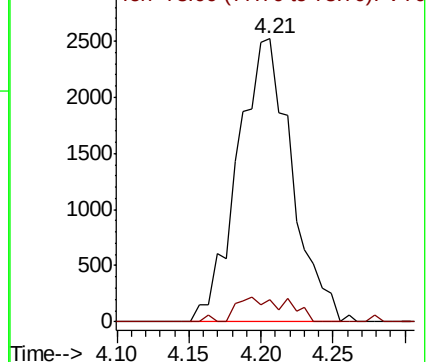
76 100

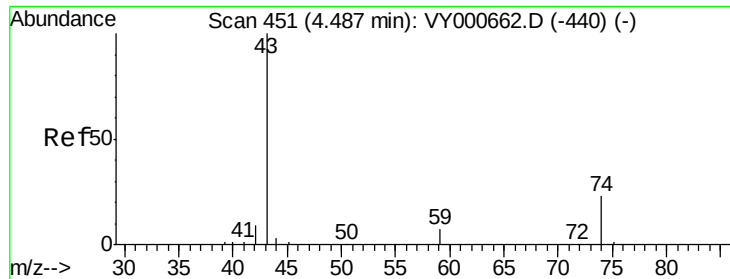
78 7.9 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0





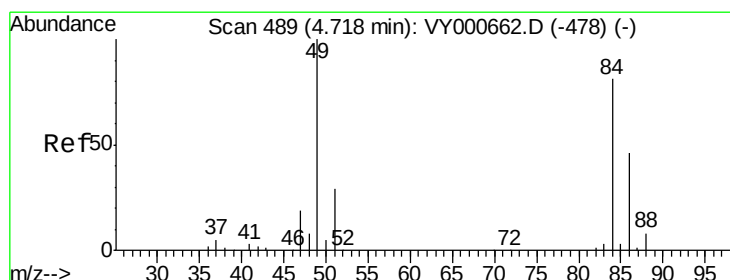
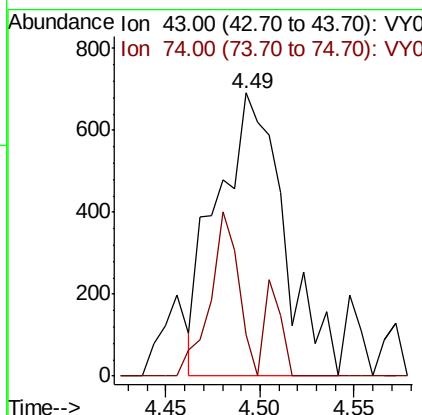
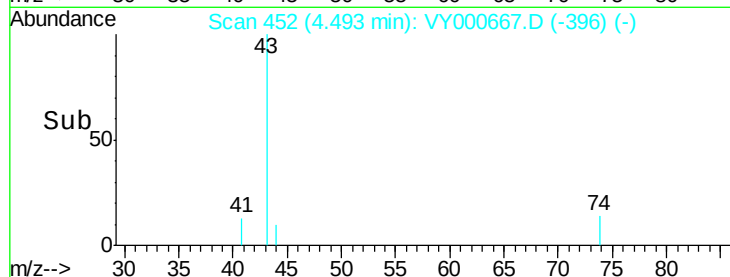
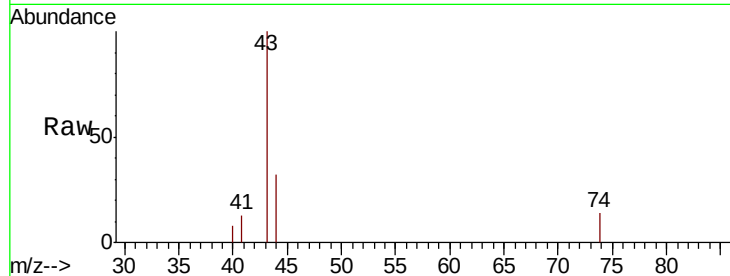
#15
Methyl Acetate
Concen: 0.512 ug/L
RT: 4.49 min Scan# 452
Delta R.T. 0.01 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Instrument :
MSVOA_Y
ClientSampled :
MDL04

Tot Ion: 43 Resp: 1710
Ion Ratio Lower Upper
43 100
74 24.5 18.1 27.1

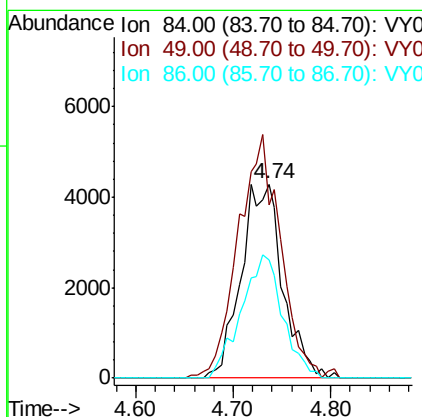
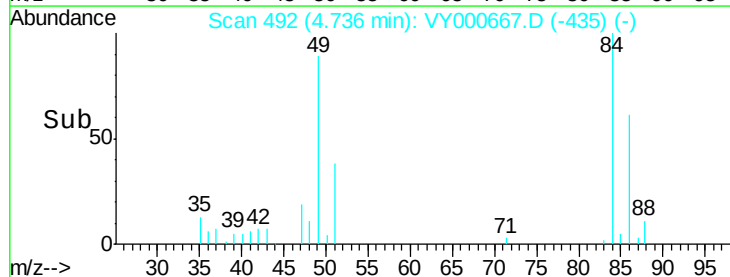
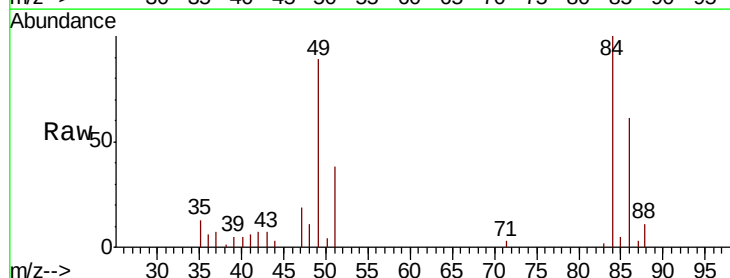
Manual Integrations
APPROVED

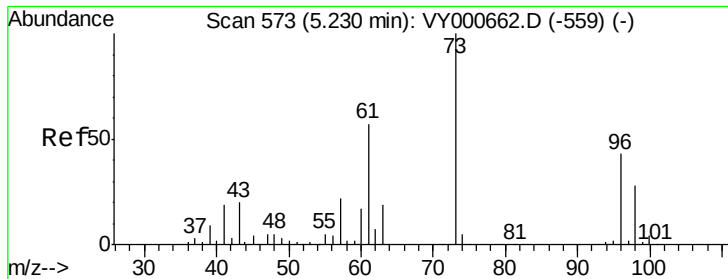
MMDADODA
11/19/2019 11:59:18 AM



#16
Methylene chloride
Concen: 2.262 ug/L m
RT: 4.74 min Scan# 492
Delta R.T. 0.02 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Tgt Ion: 84 Resp: 12754
Ion Ratio Lower Upper
84 100
49 89.2 88.8 165.0
86 60.8 43.9 81.5





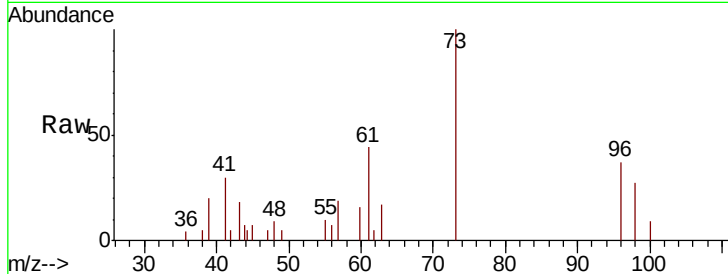
#17
Methyl tert-butyl Ether
Concen: 0.502 ug/L m
RT: 5.22 min Scan# 572
Delta R.T. 0.00 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Instrument :
MSVOA_Y
ClientSampleID :
MDL04

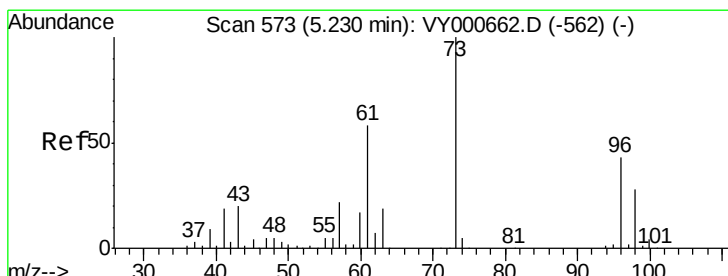
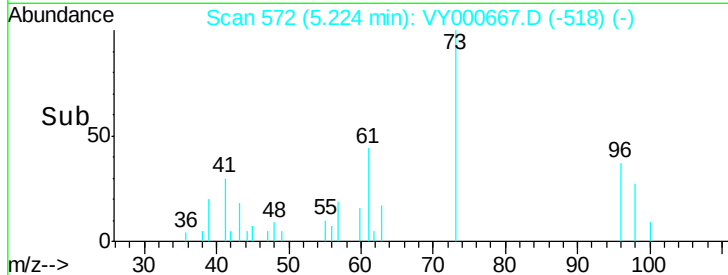
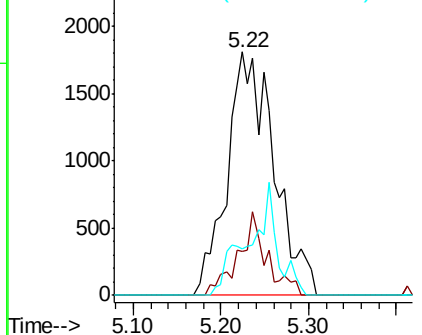
Tot Ion	Ratio	Lower	Upper
73	100		
43	3.6	15.4	23.0#
57	0.0	17.5	26.3#

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM



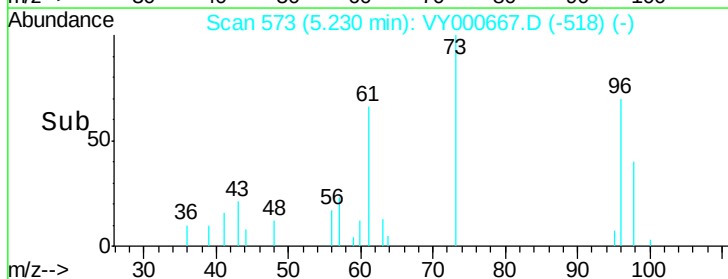
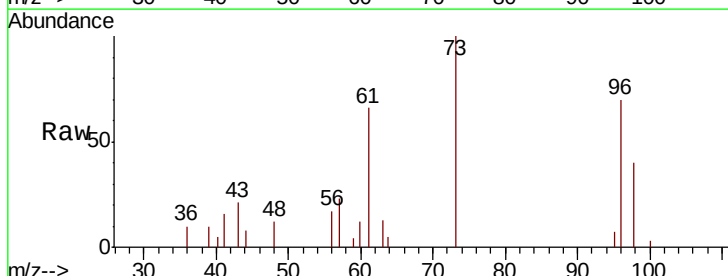
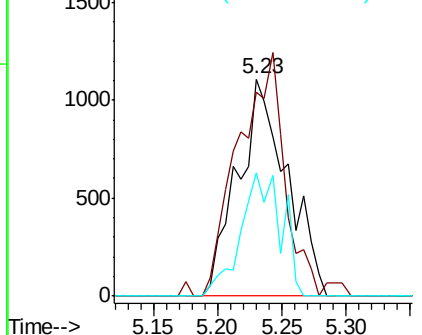
Abundance Ion 73.00 (72.70 to 73.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 57.00 (56.70 to 57.70): VY0

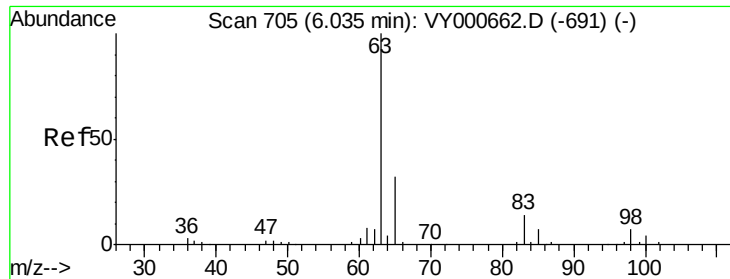


#18
trans-1,2-Dichloroethene
Concen: 0.599 ug/L m
RT: 5.23 min Scan# 573
Delta R.T. 0.01 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	93.9	91.8	170.4
98	56.5	46.3	85.9

Abundance Ion 96.00 (95.70 to 96.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 98.00 (97.70 to 98.70): VY0





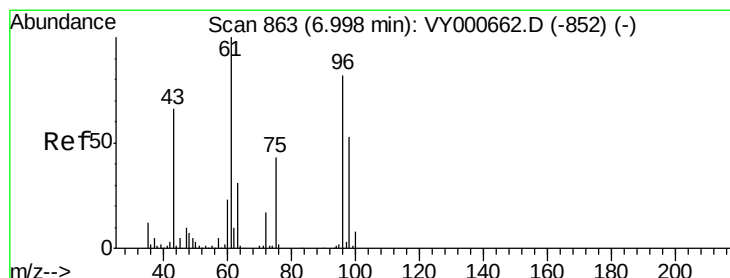
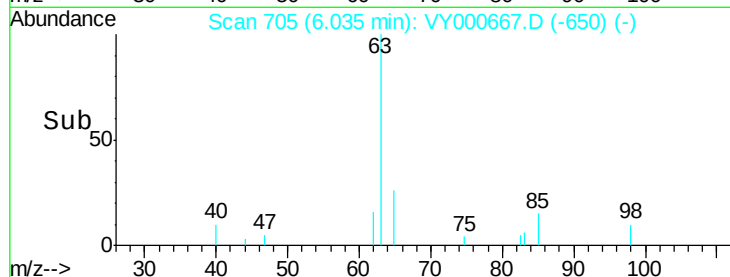
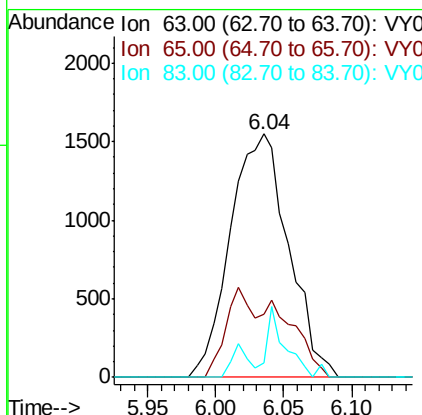
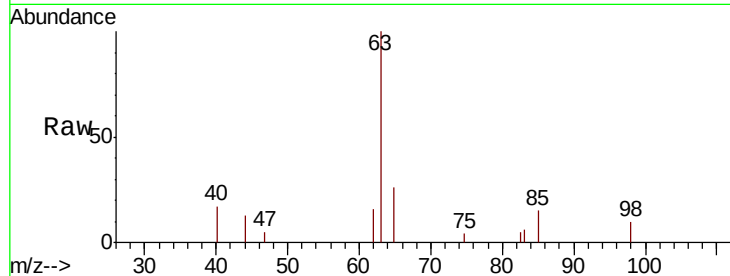
#19
 1,1-Dichloroethane
 Concen: 0.531 ug/L
 RT: 6.04 min Scan# 705
 Delta R.T. 0.01 min
 Lab File: VY000667.D
 Acq: 13 Nov 2019 12:59

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
63	100		
65	26.2	23.9	44.5
83	6.2	10.1	18.9#

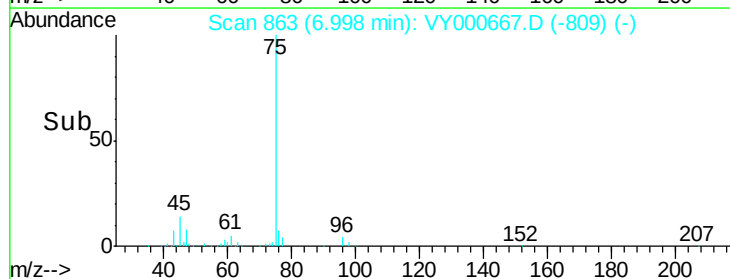
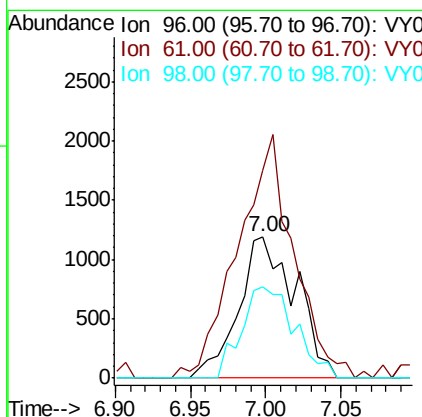
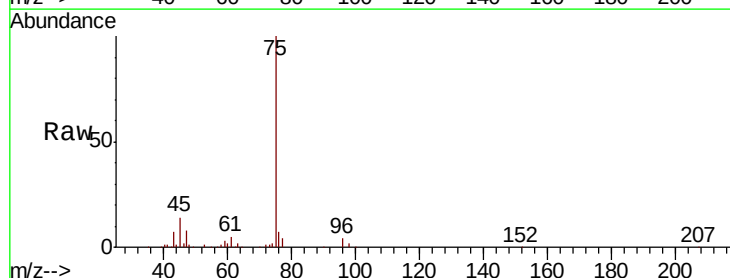
Manual Integrations
 APPROVED

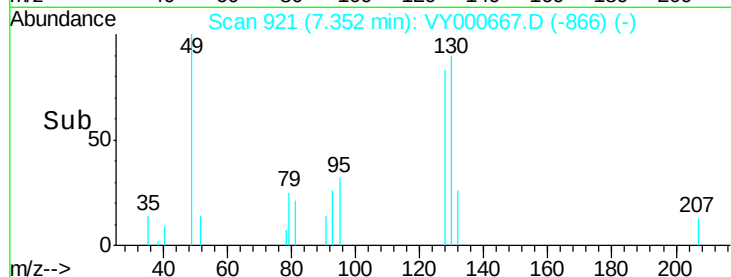
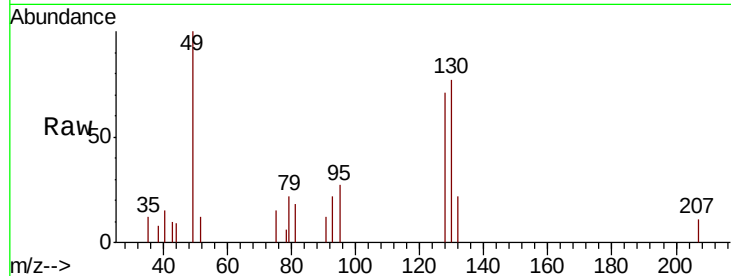
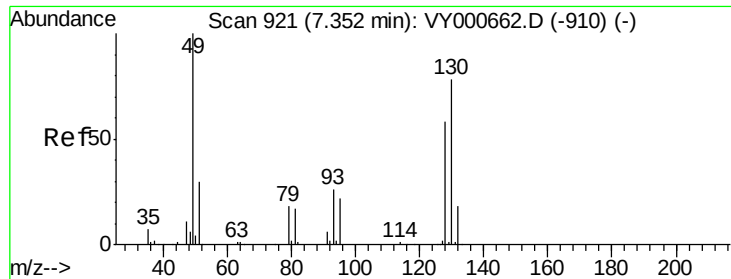
MMDADODA
 11/19/2019 11:59:18 AM



#22
 cis-1,2-Dichloroethene
 Concen: 0.576 ug/L m
 RT: 7.00 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VY000667.D
 Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.1	86.8	161.2
98	64.9	44.6	82.8





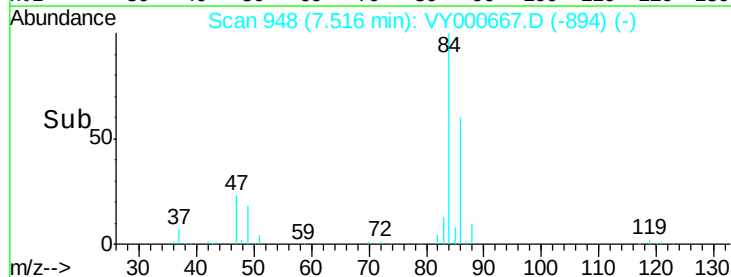
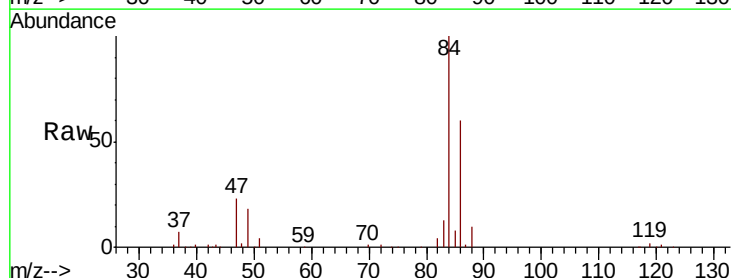
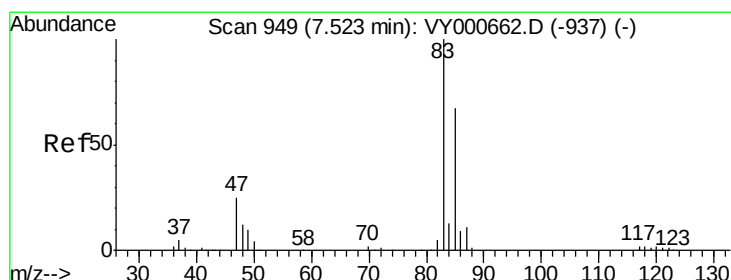
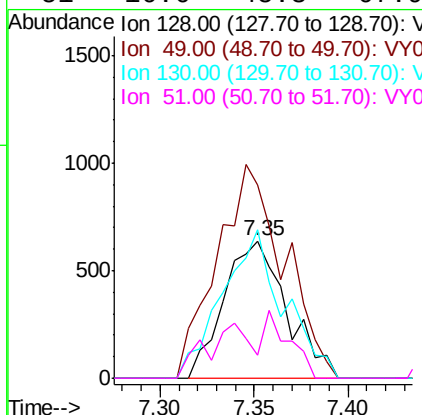
#23
Bromochloromethane
Concen: 0.615 ug/L
RT: 7.35 min Scan# 921
Delta R.T. 0.01 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Tot Ion	Ratio	Lower	Upper
128	100		
49	141.1	131.5	244.3
130	108.5	96.7	179.5
51	16.6	45.3	67.9

Instrument :
MSVOA_Y
ClientSampleId :
MDL04

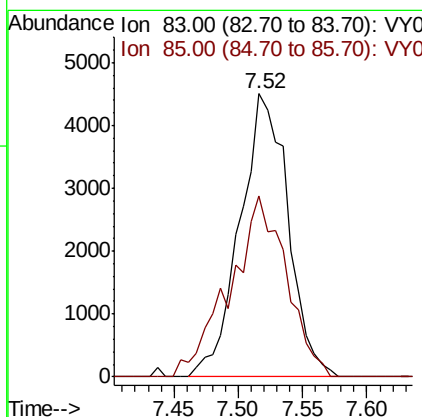
Manual Integrations
APPROVED

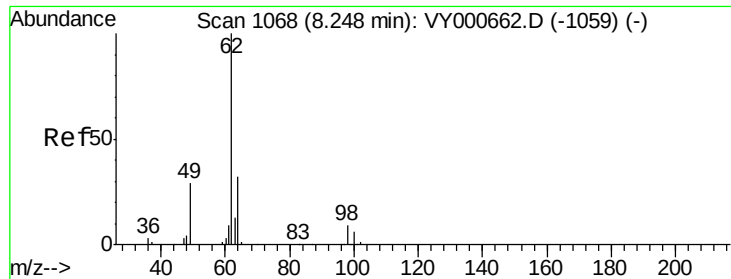
MMDADODA
11/19/2019 11:59:18 AM



#25
Chloroform
Concen: 1.243 ug/L
RT: 7.52 min Scan# 948
Delta R.T. 0.00 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.9	45.6	84.6





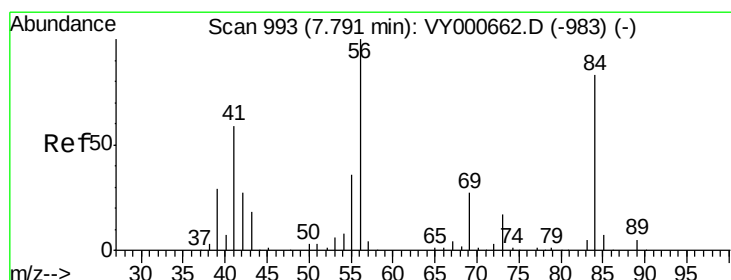
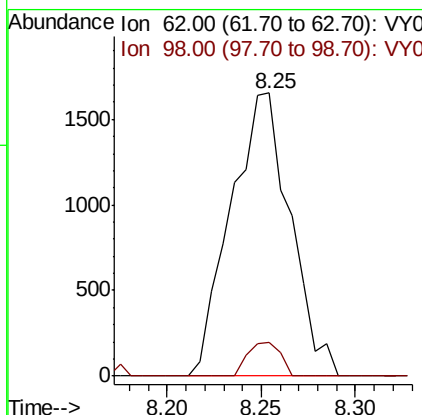
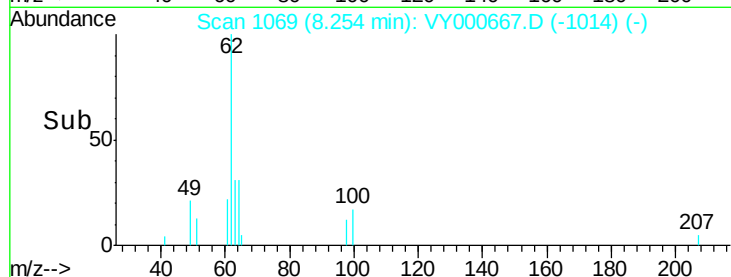
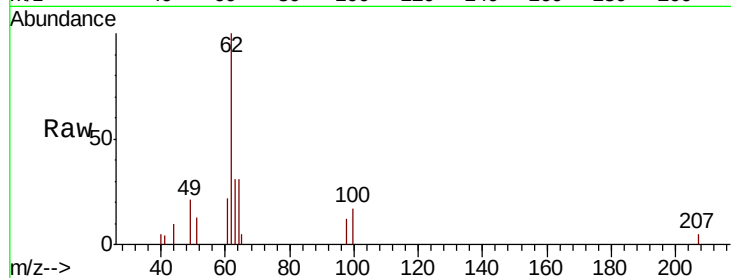
#27
 1,2-Dichloroethane
 Concen: 0.577 ug/L
 RT: 8.25 min Scan# 1069
 Delta R.T. 0.01 min
 Lab File: VY000667.D
 Acq: 13 Nov 2019 12:59

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
62	100		
98	11.9	7.5	11.3#

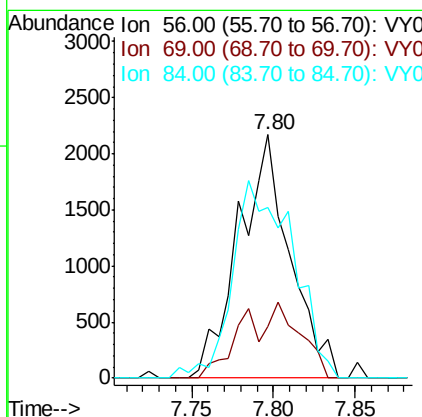
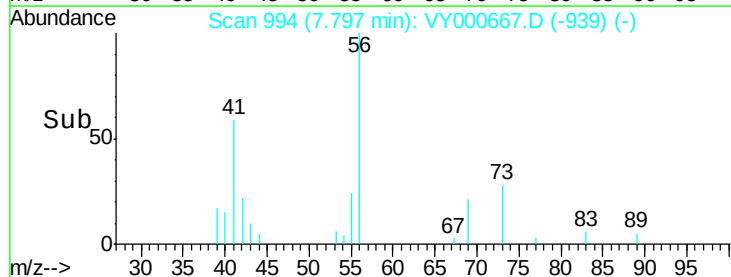
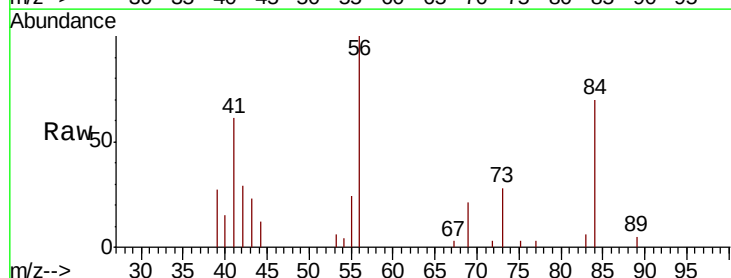
Manual Integrations
 APPROVED

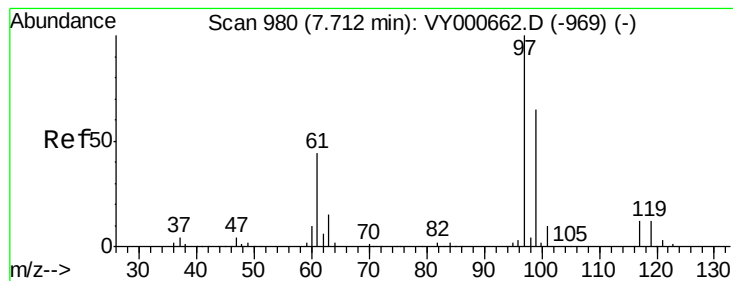
MMDADODA
 11/19/2019 11:59:18 AM



#30
 Cyclohexane
 Concen: 0.563 ug/L
 RT: 7.80 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VY000667.D
 Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
56	100		
69	19.9	24.1	36.1#
84	15.0	70.2	105.4#





#31

1,1,1-Trichloroethane

Concen: 0.462 ug/L

RT: 7.71 min Scan# 980

Delta R.T. 0.00 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

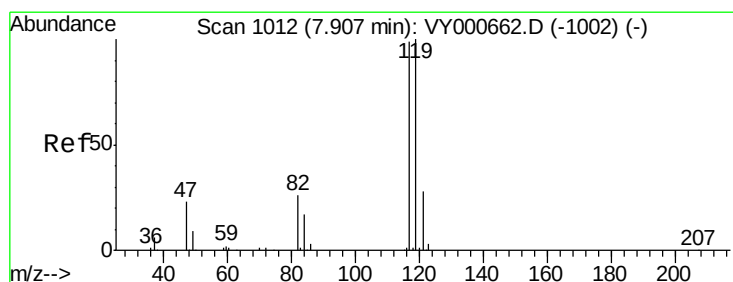
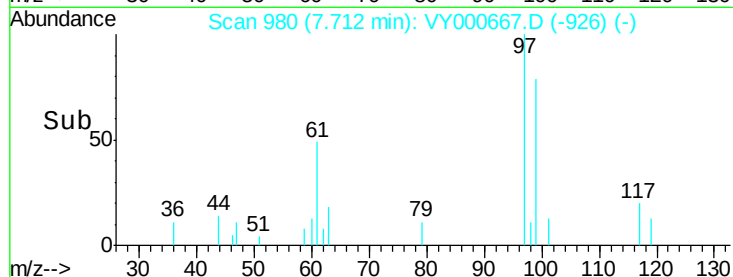
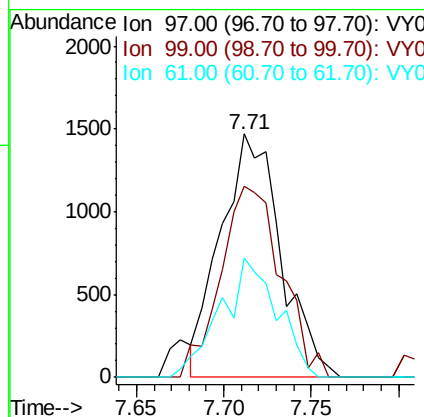
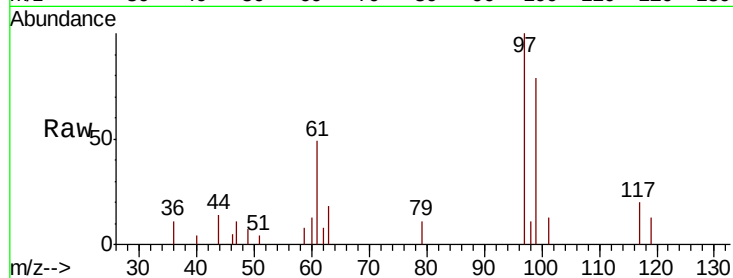
ClientSampled :

MDL04

Tot Ion:	97	Resp:	3527
Ion Ratio	Lower	Upper	
97	100		
99	77.9	51.4	77.0#
61	30.3	34.7	52.1#

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM



#32

Carbon tetrachloride

Concen: 0.543 ug/L m

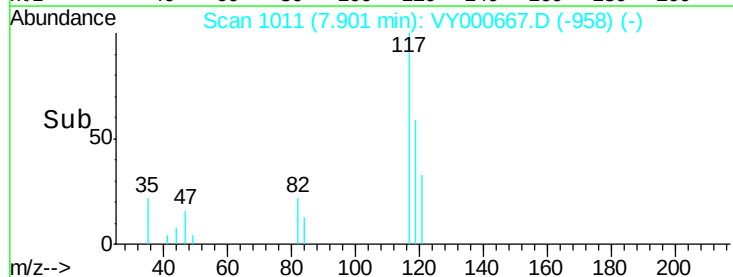
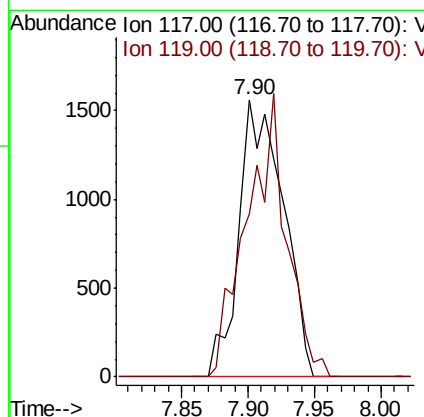
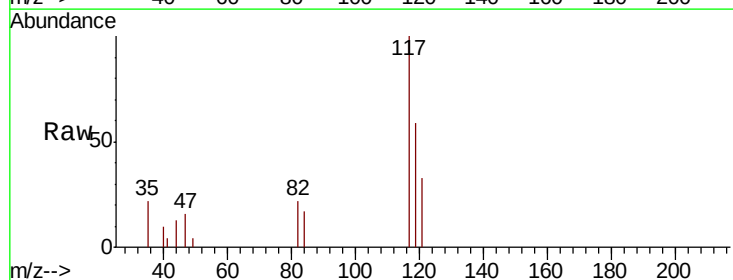
RT: 7.90 min Scan# 1011

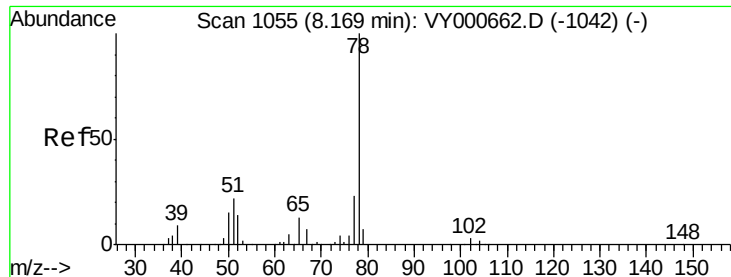
Delta R.T. -0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Tgt Ion:	117	Resp:	3612
Ion Ratio	Lower	Upper	
117	100		
119	49.6	76.2	114.2#





#34

Benzene

Concen: 0.506 ug/L

RT: 8.17 min Scan# 1056

Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

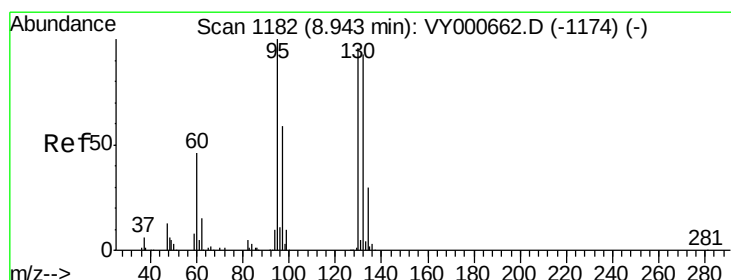
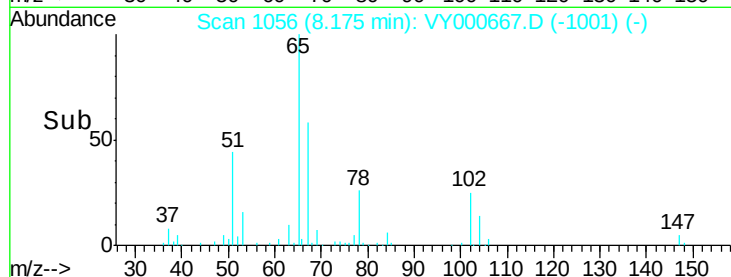
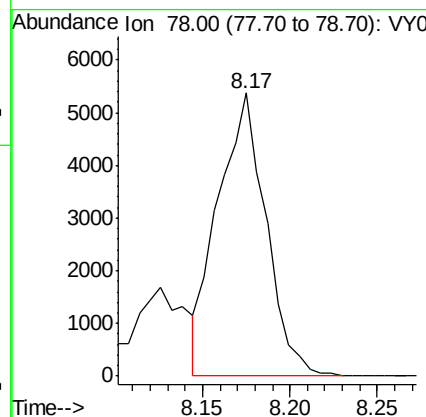
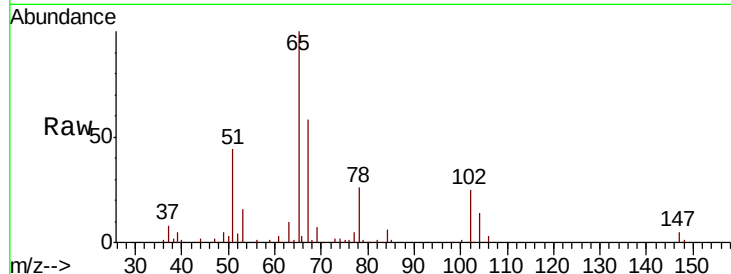
ClientSampleId :

MDL04

Tgt Ion: 78 Resp: 10248

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM



#35

Trichloroethene

Concen: 0.556 ug/L

RT: 8.96 min Scan# 1184

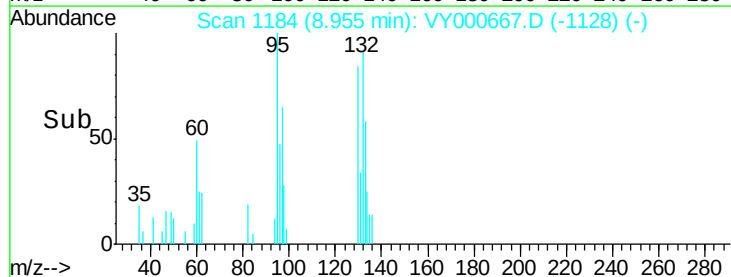
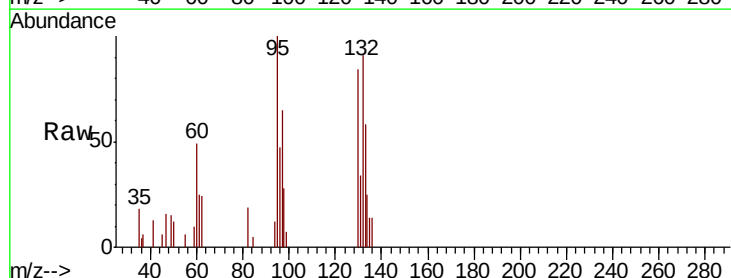
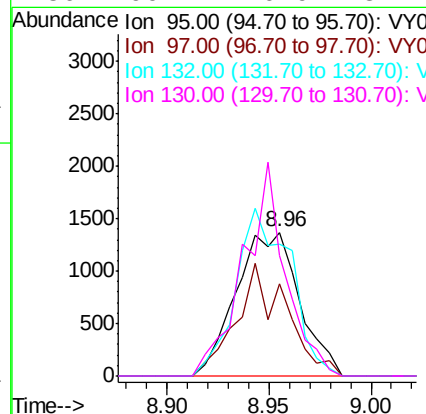
Delta R.T. 0.01 min

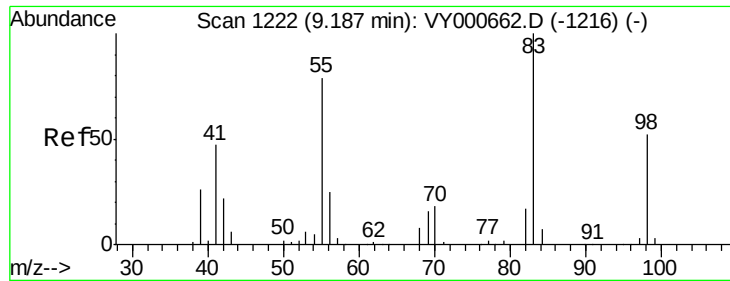
Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Tgt Ion: 95 Resp: 2949

Ion	Ratio	Lower	Upper
95	100		
97	37.3	44.4	82.4#
132	61.7	66.8	124.0#
130	99.4	70.9	131.7





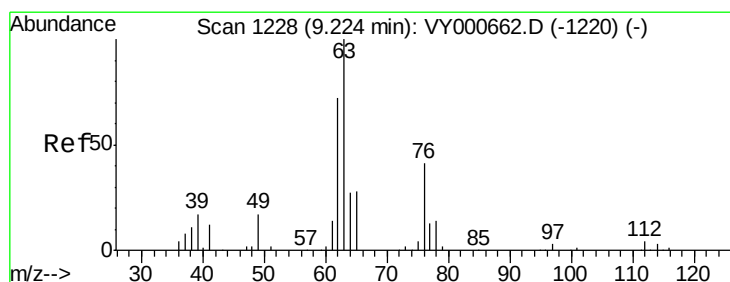
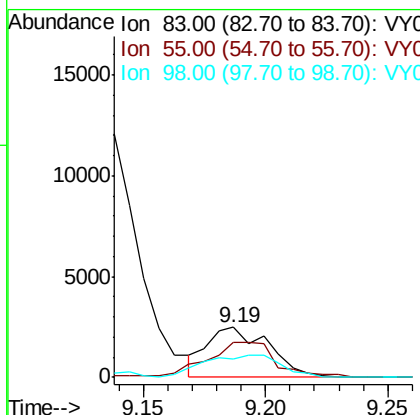
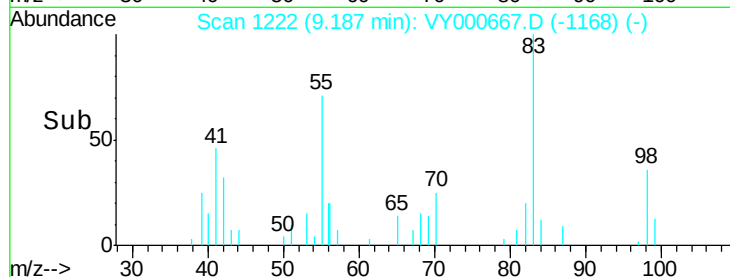
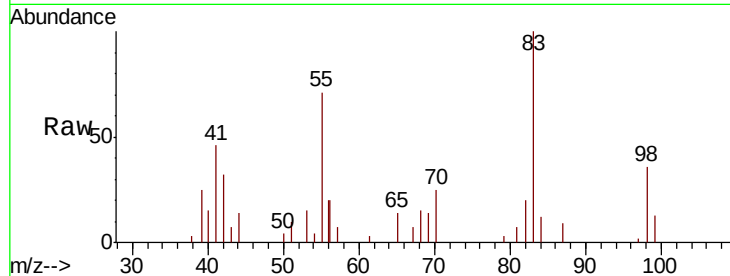
#36
Methvlcvclohexane
Concen: 0.476 ug/L
RT: 9.19 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Instrument :
MSVOA_Y
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.1	60.0	90.0
98	56.5	40.2	60.2

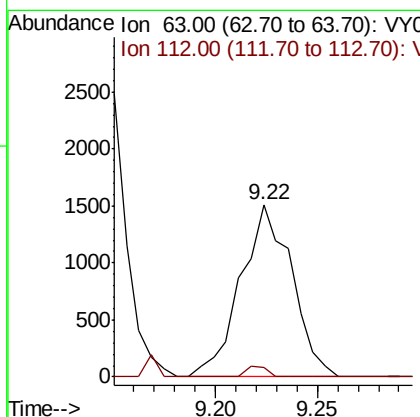
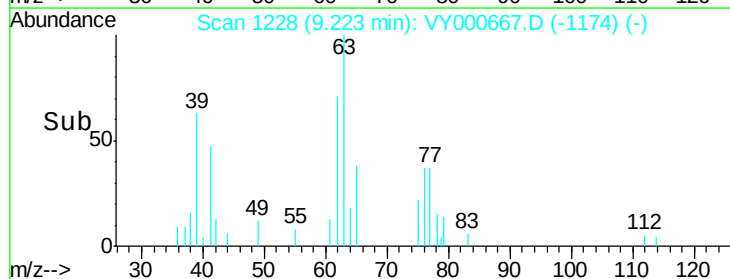
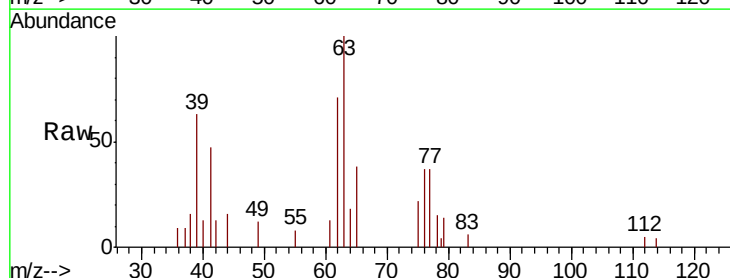
Manual Integrations
APPROVED

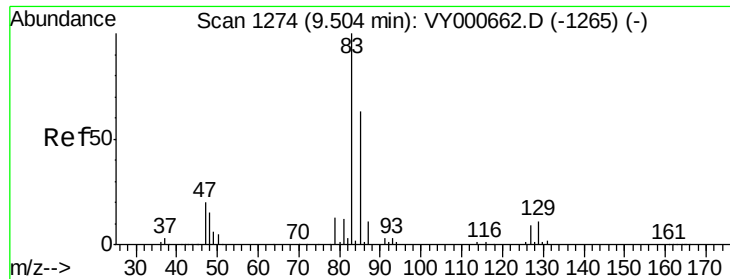
MMDADODA
11/19/2019 11:59:18 AM



#40
1,2-Dichloropropane
Concen: 0.512 ug/L
RT: 9.22 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
63	100		
112	2.3	3.2	4.8#





#41

Bromodichloromethane

Concen: 0.607 ug/L

RT: 9.51 min Scan# 1275

Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

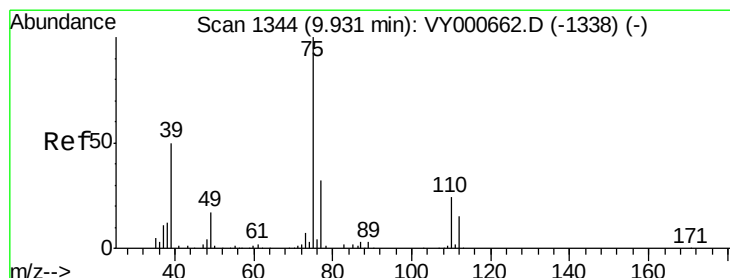
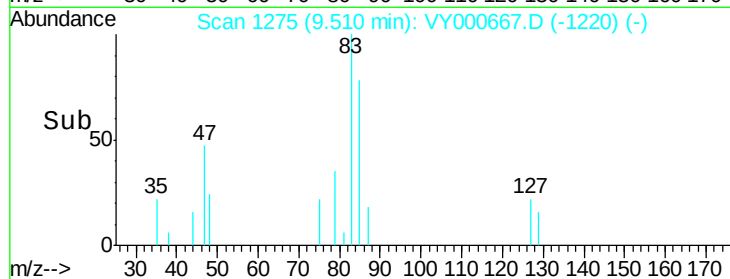
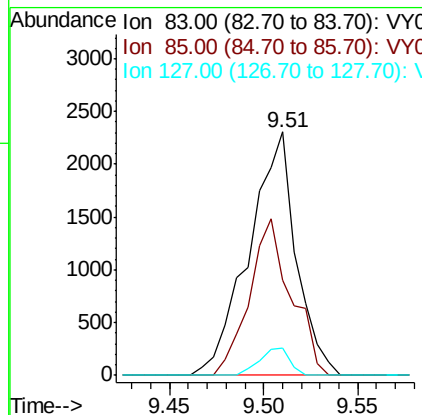
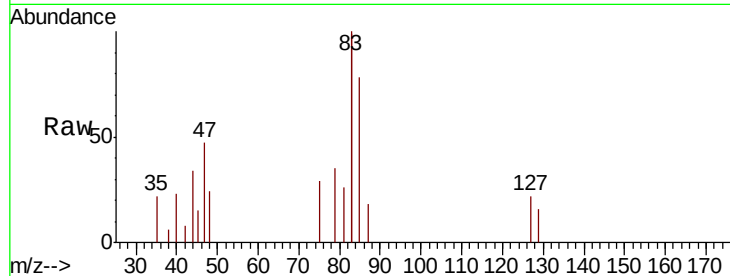
ClientSampleId :

MDL04

Tot Ion:	83	Resp:	4010
Ion Ratio	Lower	Upper	
83	100		
85	39.3	46.1	85.5#
127	11.1	6.5	9.7#

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM



#42

cis-1,3-Dichloropropene

Concen: 0.480 ug/L

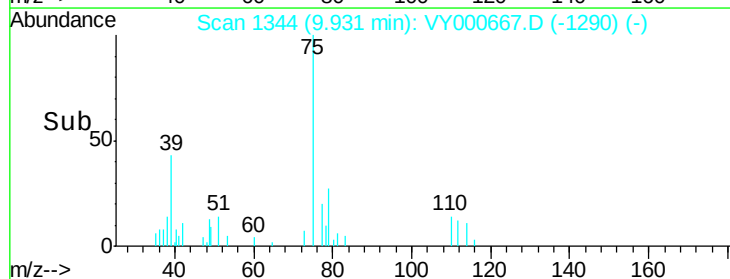
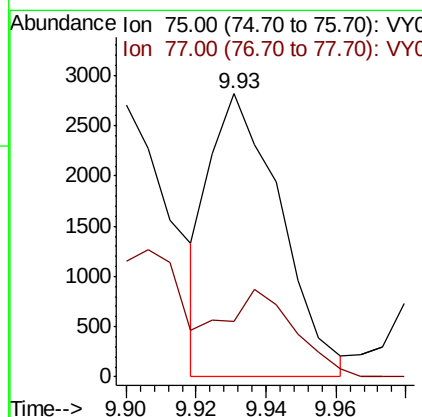
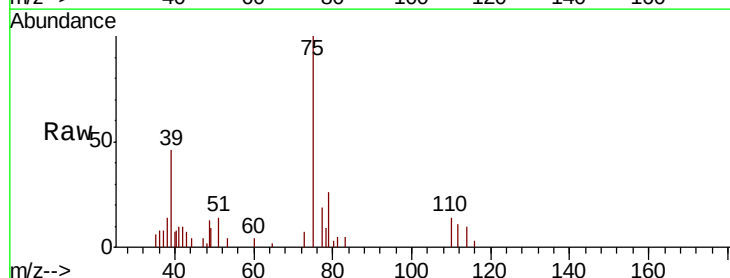
RT: 9.93 min Scan# 1344

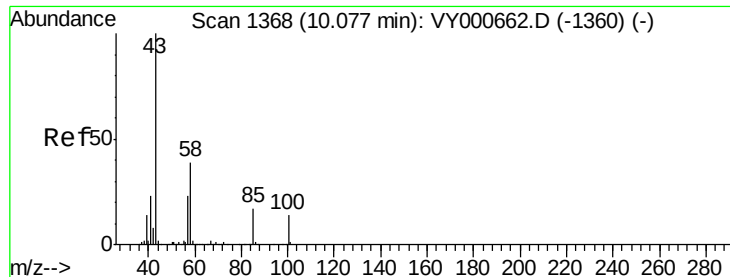
Delta R.T. 0.00 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Tgt Ion:	75	Resp:	3971
Ion Ratio	Lower	Upper	
75	100		
77	19.4	21.7	40.3#





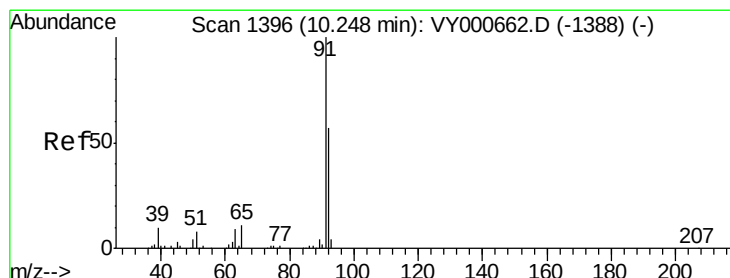
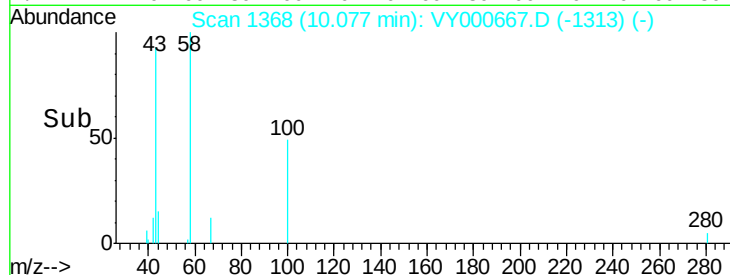
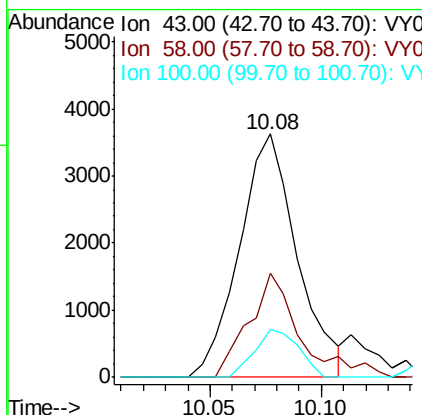
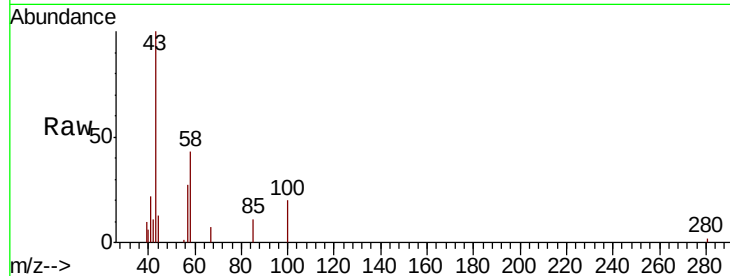
#43
4-Methyl-2-pentanone
Concen: 1.337 ug/L
RT: 10.08 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Instrument :
MSVOA_Y
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	33.6	30.6	45.8
100	15.0	12.0	18.0

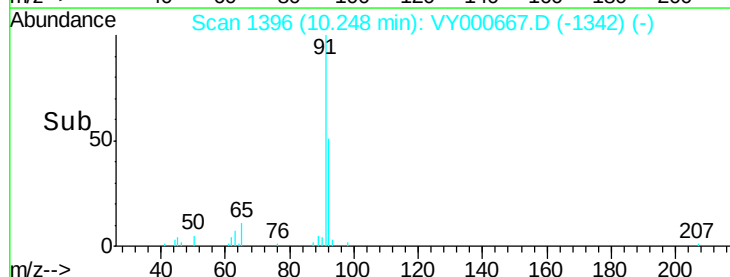
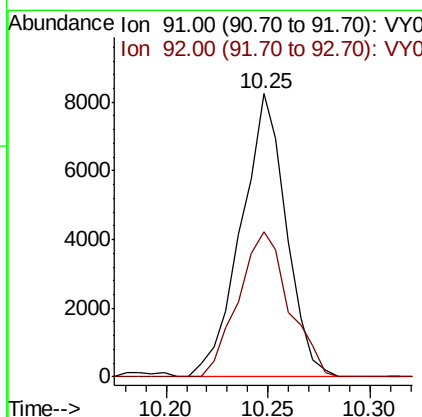
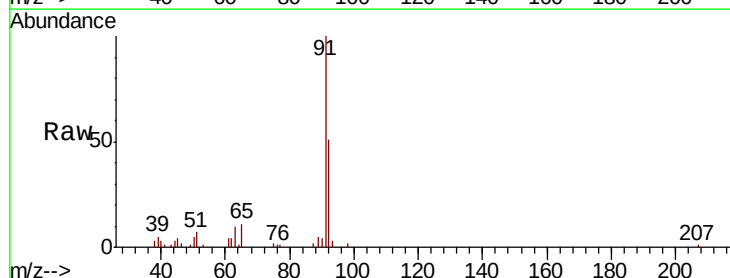
Manual Integrations
APPROVED

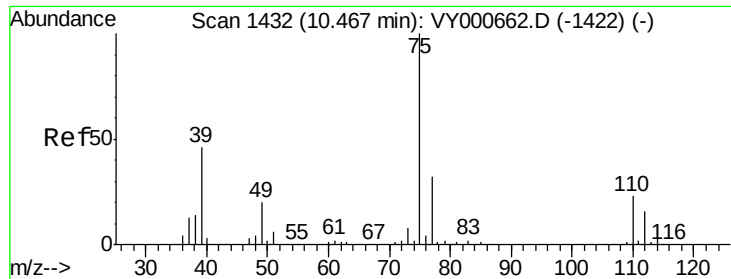
MMDADODA
11/19/2019 11:59:18 AM



#44
Toluene
Concen: 0.578 ug/L
RT: 10.25 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.3	39.5	73.4





#45

trans-1,3-Dichloropropene

Concen: 0.402 ug/L

RT: 10.47 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL04

Tot Ion: 75 Resp: 2852

Ion Ratio Lower Upper

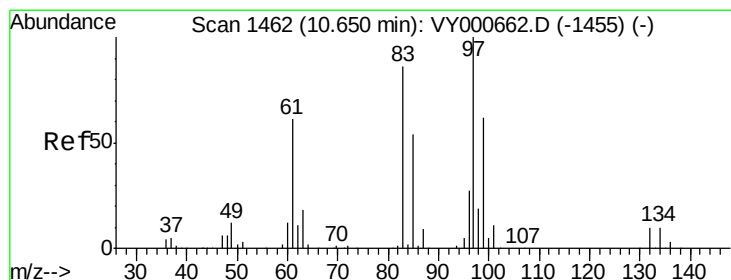
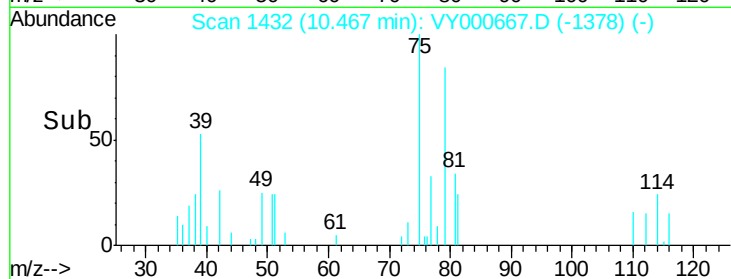
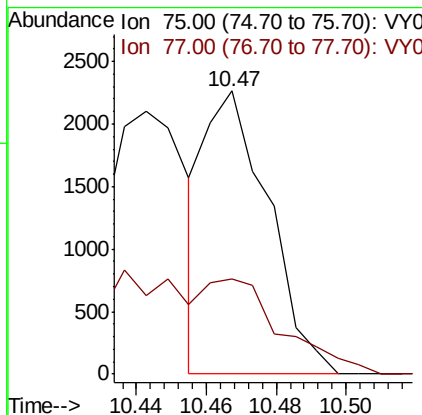
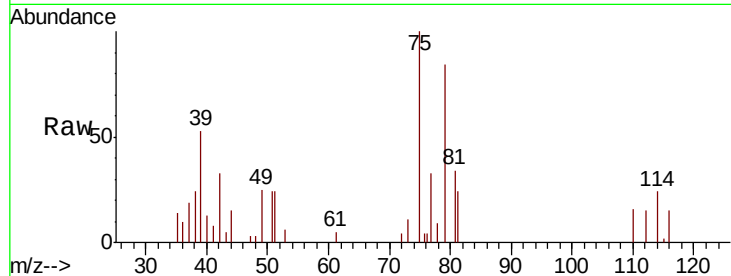
75 100

77 33.5 20.4 37.8

Manual Integrations
APPROVED

MMDADODA

11/19/2019 11:59:18 AM



#46

1,1,2-Trichloroethane

Concen: 0.513 ug/L

RT: 10.64 min Scan# 1461

Delta R.T. 0.00 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Tgt Ion: 97 Resp: 2157

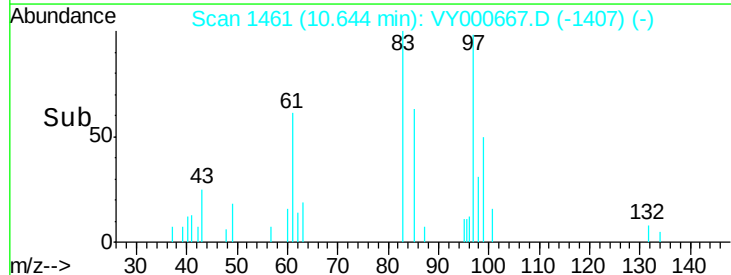
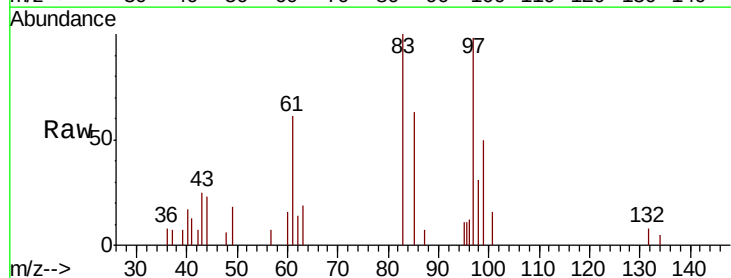
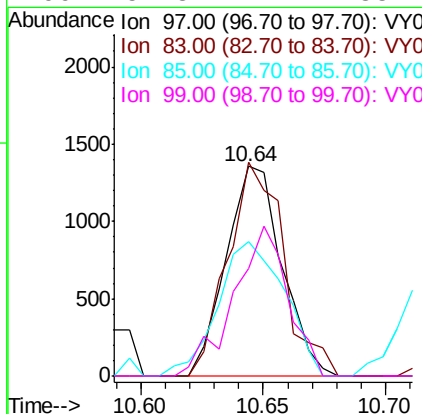
Ion Ratio Lower Upper

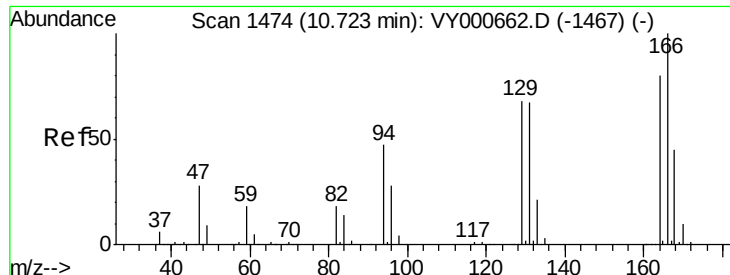
97 100

83 102.0 58.7 109.1

85 64.5 37.3 69.3

99 51.3 44.7 83.1





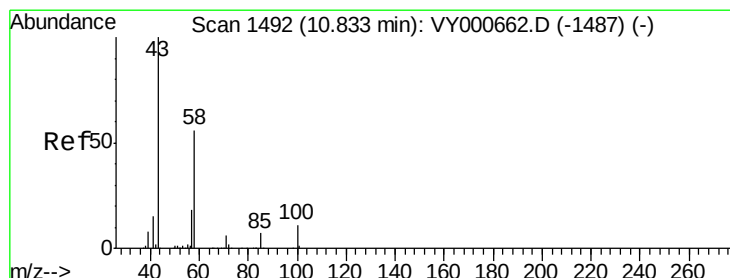
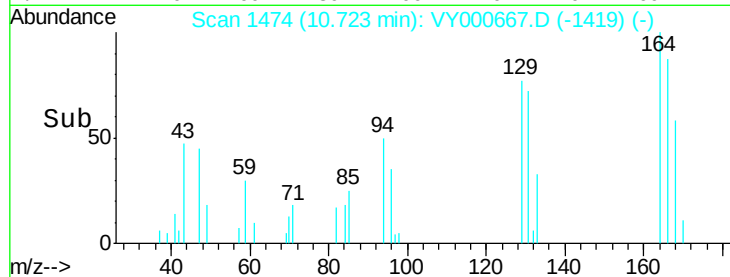
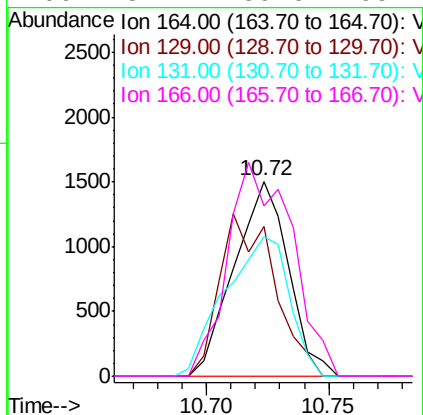
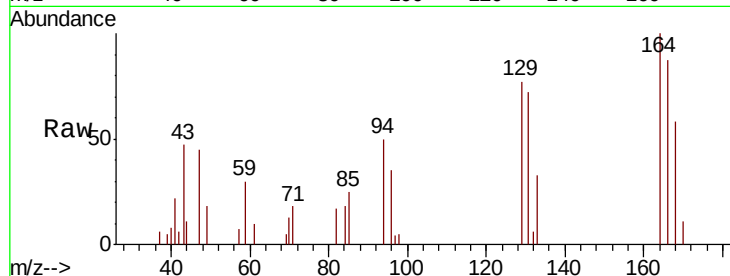
#47
Tetrachloroethene
Concen: 0.587 ug/L
RT: 10.72 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Instrument :
MSVOA_Y
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
164	100		
129	76.6	69.6	129.2
131	71.7	66.8	124.2
166	87.4	89.0	165.2#

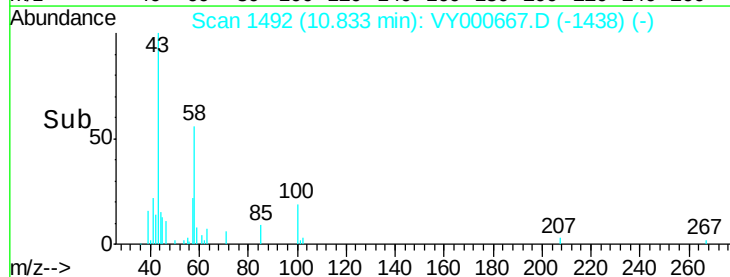
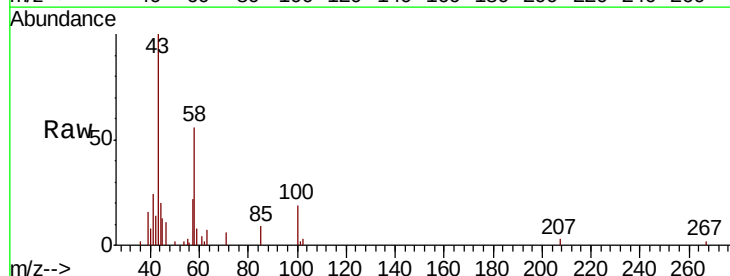
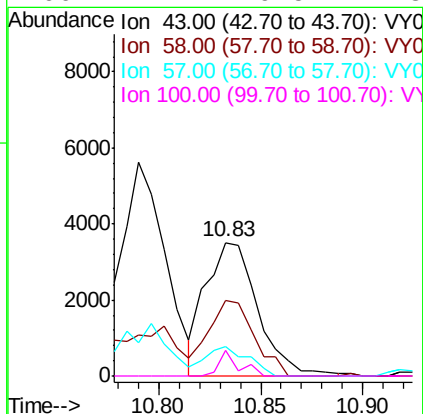
Manual Integrations
APPROVED

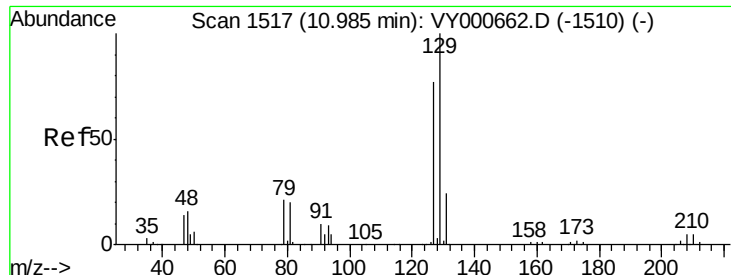
MMDADODA
11/19/2019 11:59:18 AM



#49
2-Hexanone
Concen: 1.623 ug/L
RT: 10.83 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
43	100		
58	49.5	44.1	66.1
57	18.2	13.9	20.9
100	7.1	9.5	14.3#





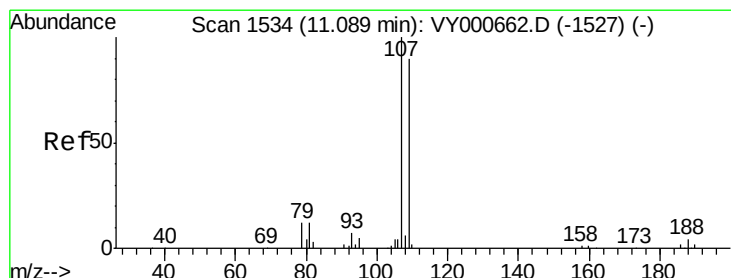
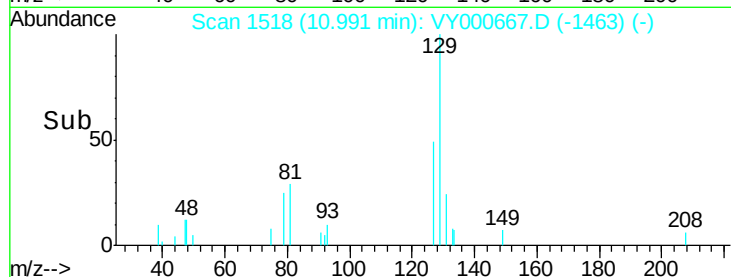
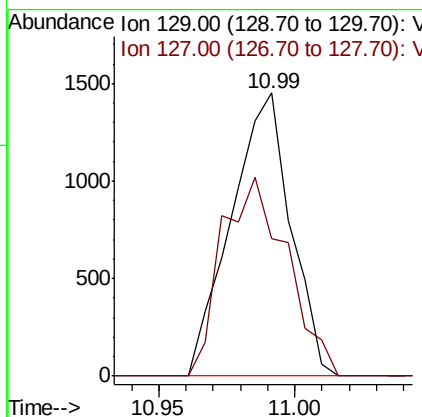
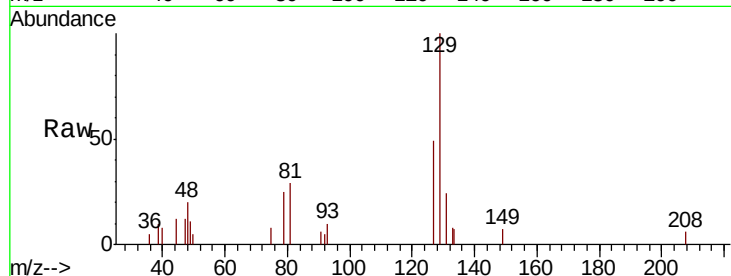
#50
Dibromochloromethane
Concen: 0.463 ug/L
RT: 10.99 min Scan# 1518
Delta R.T. 0.01 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Instrument :
MSVOA_Y
ClientSampleId :
MDL04

Tot Ion:129 Resp: 2202
Ion Ratio Lower Upper
129 100
127 48.7 57.9 107.5#

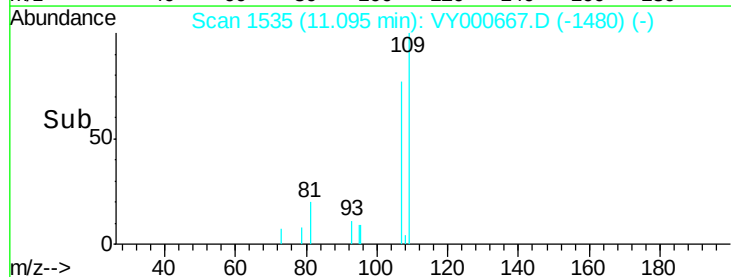
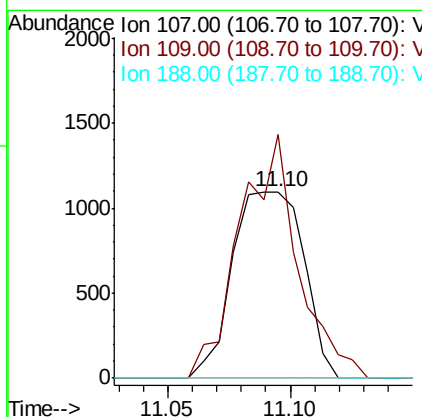
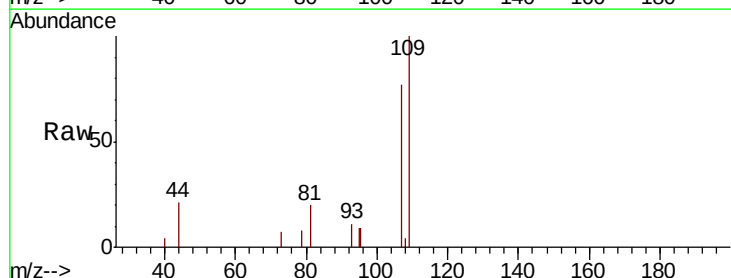
Manual Integrations
APPROVED

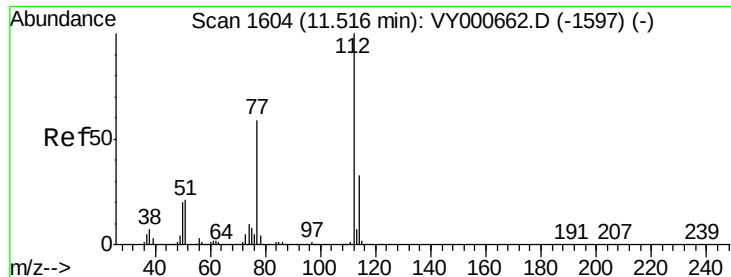
MMDADODA
11/19/2019 11:59:18 AM



#51
1,2-Dibromoethane
Concen: 0.546 ug/L
RT: 11.10 min Scan# 1535
Delta R.T. 0.01 min
Lab File: VY000667.D
Acq: 13 Nov 2019 12:59

Tgt Ion:107 Resp: 2235
Ion Ratio Lower Upper
107 100
109 130.6 65.5 121.6#
188 0.0 2.7 4.1#





#52

Chlorobenzene

Concen: 0.488 ug/L

RT: 11.52 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

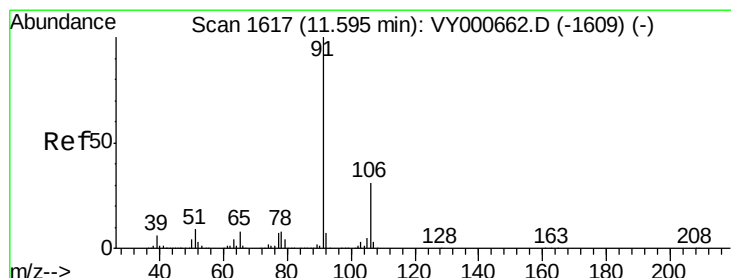
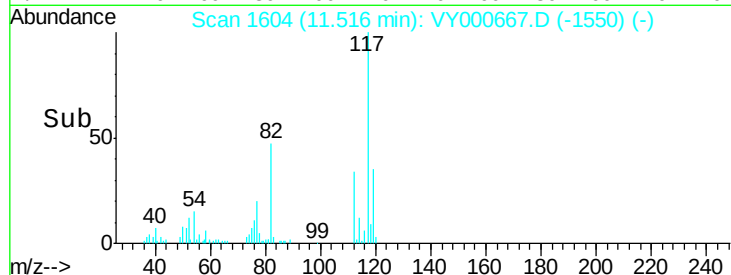
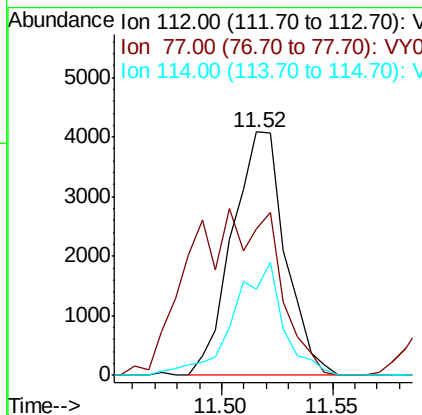
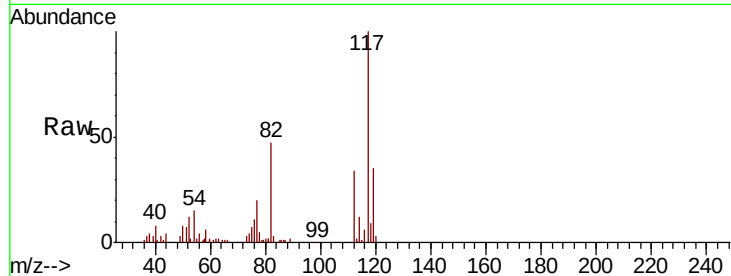
ClientSampleId :

MDL04

Tot Ion	Ratio	Lower	Upper
112	100		
77	60.2	47.4	71.0
114	35.3	23.0	42.6

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM



#53

Ethylbenzene

Concen: 0.508 ug/L

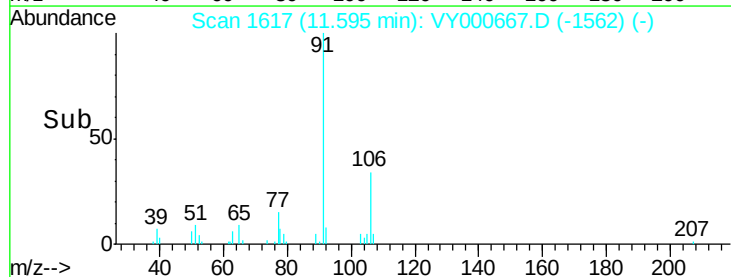
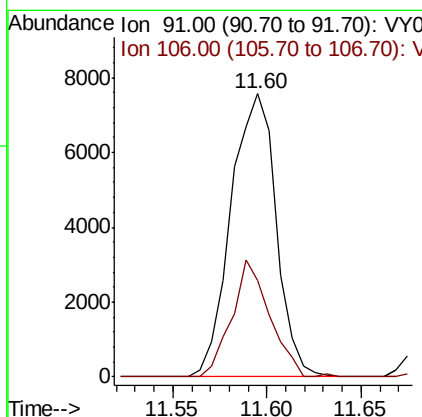
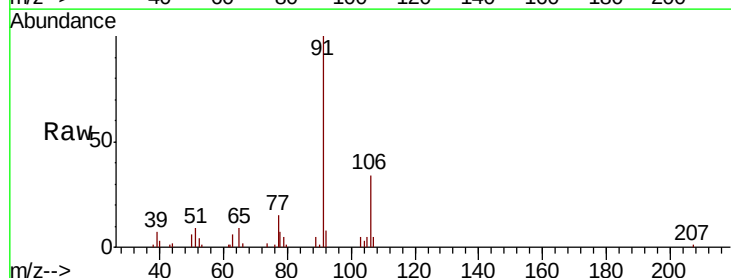
RT: 11.60 min Scan# 1617

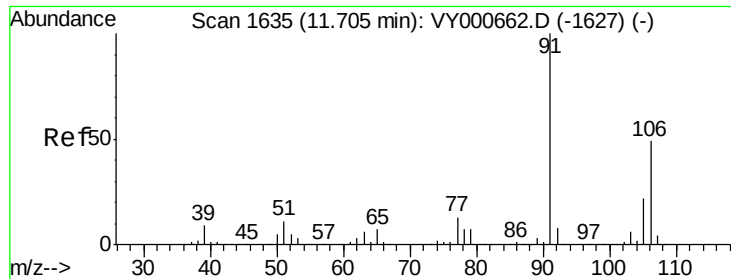
Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.2	20.9	38.7





#54

m,p-Xylene

Concen: 0.550 ug/L

RT: 11.70 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

ClientSampled :

MDL04

Tot Ion:106 Resp: 5155

Ion Ratio Lower Upper

106 100

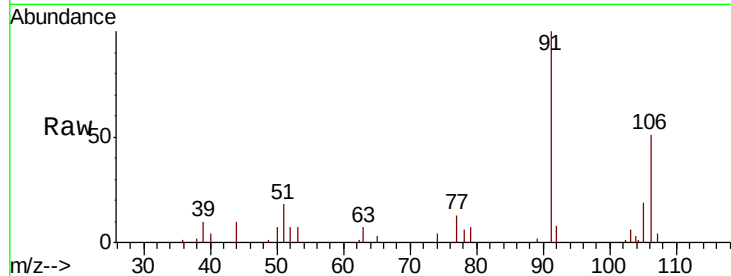
91 195.8 137.4 255.2

Manual Integrations

APPROVED

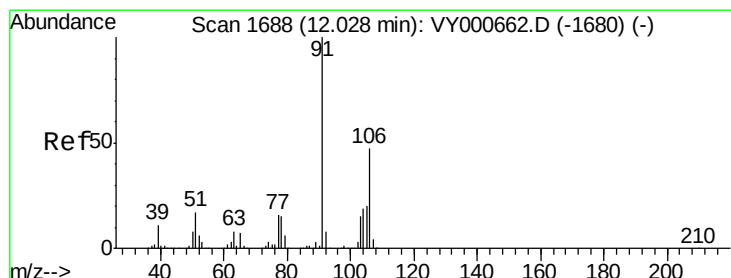
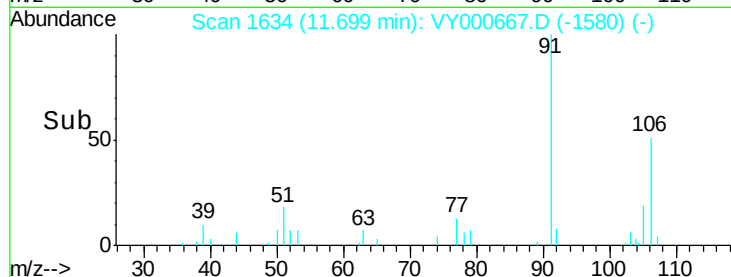
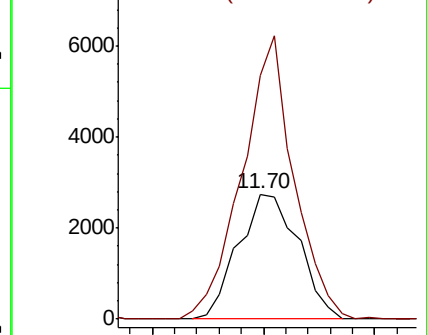
MMDADODA

11/19/2019 11:59:18 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#55

o-xylene

Concen: 0.537 ug/L

RT: 12.03 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VY000667.D

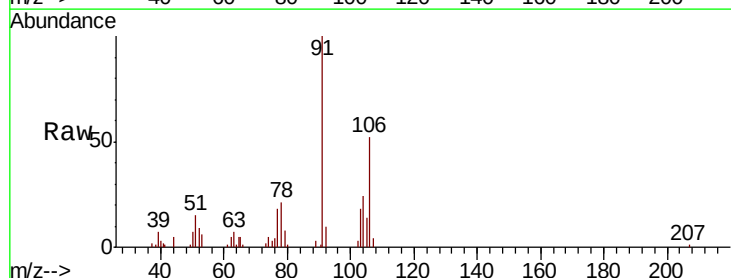
Acq: 13 Nov 2019 12:59

Tgt Ion:106 Resp: 4939

Ion Ratio Lower Upper

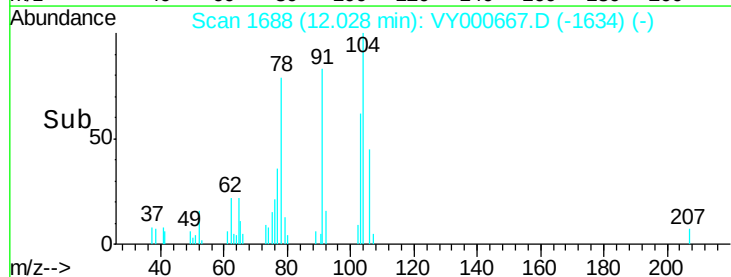
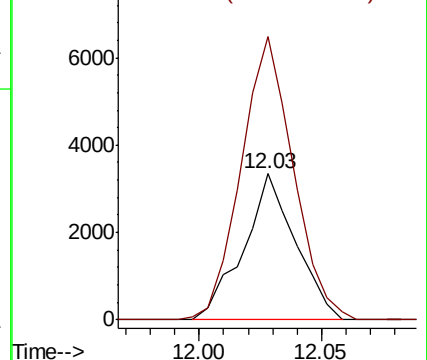
106 100

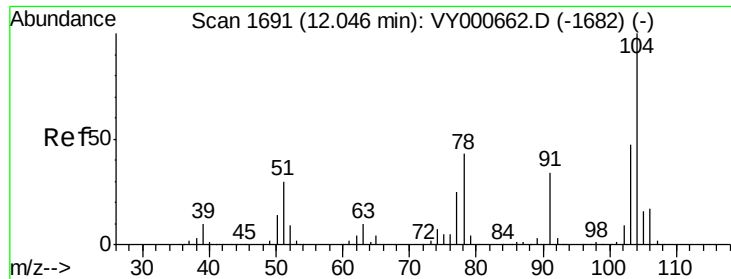
91 194.0 147.8 274.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0





#56

Stvrene

Concen: 0.426 ug/L

RT: 12.05 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL04

Tot Ion:104 Resp: 6508

Ion Ratio Lower Upper

104 100

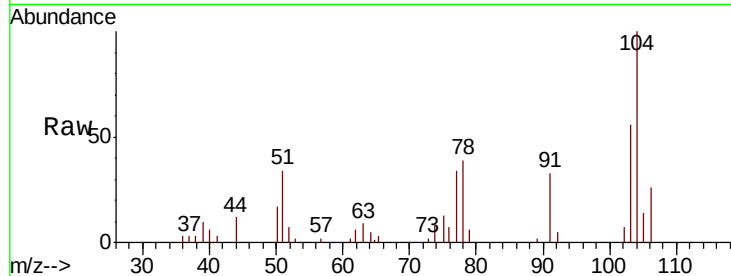
78 38.7 31.5 58.5

Manual Integrations

APPROVED

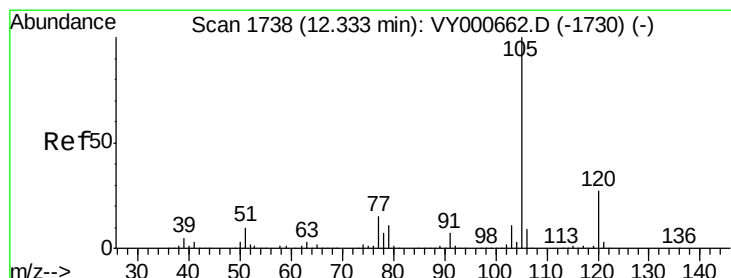
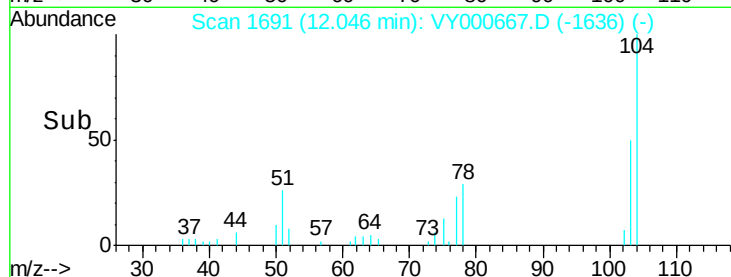
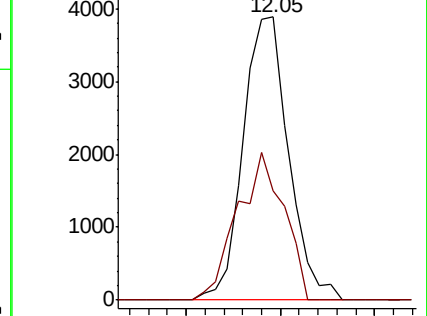
MMDADODA

11/19/2019 11:59:18 AM



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0



#57

Isopropylbenzene

Concen: 0.469 ug/L

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

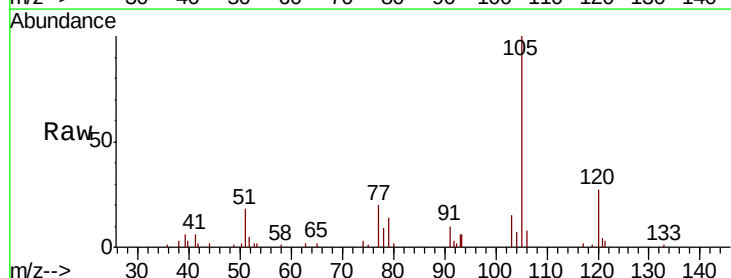
Tgt Ion:105 Resp: 11215

Ion Ratio Lower Upper

105 100

120 24.7 21.5 32.3

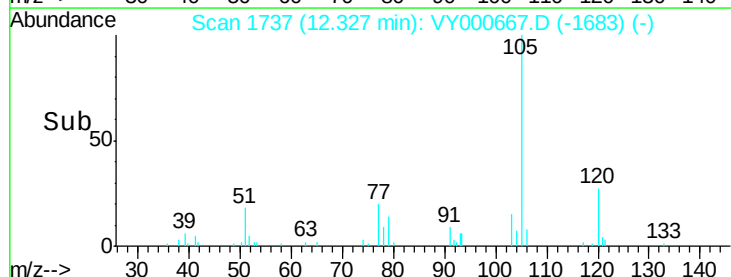
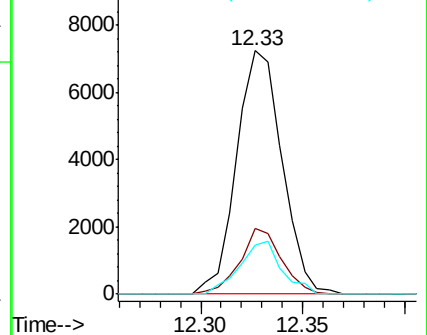
77 20.0 12.6 19.0#

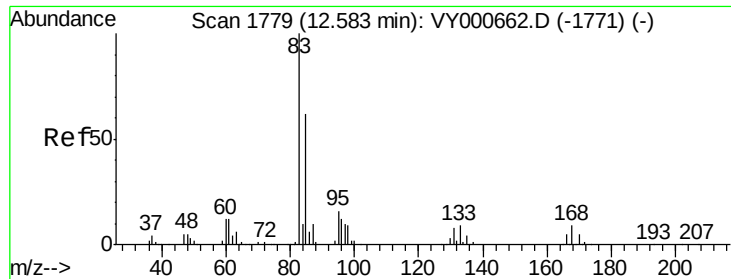


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VY0





#58

1,1,2,2-Tetrachloroethane

Concen: 0.711 ug/L

RT: 12.58 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

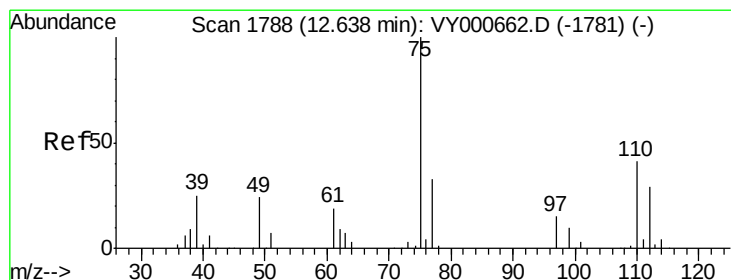
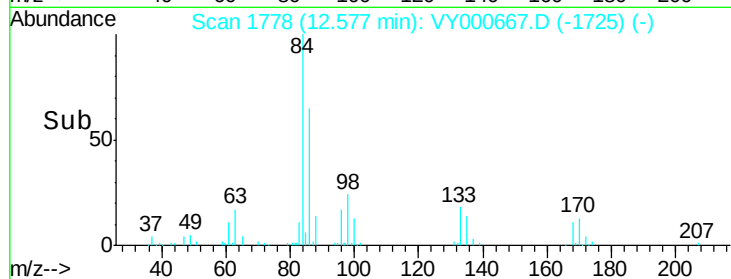
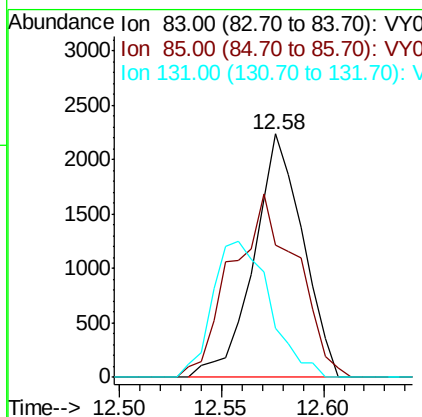
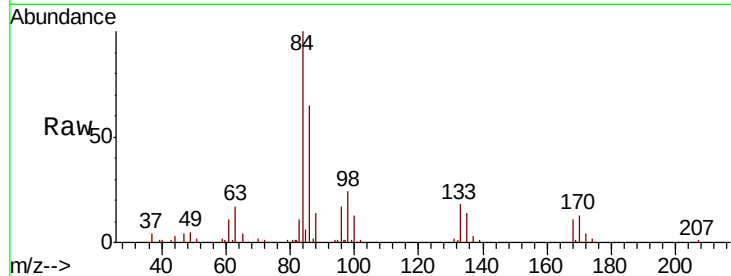
ClientSampleId :

MDL04

Tot Ion:	83	Resp:	3731
Ion Ratio	Lower	Upper	
83	100		
85	54.1	45.0	83.6
131	19.9	7.8	11.6#

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM



#59

1,2,3-Trichloropropane

Concen: 0.531 ug/L

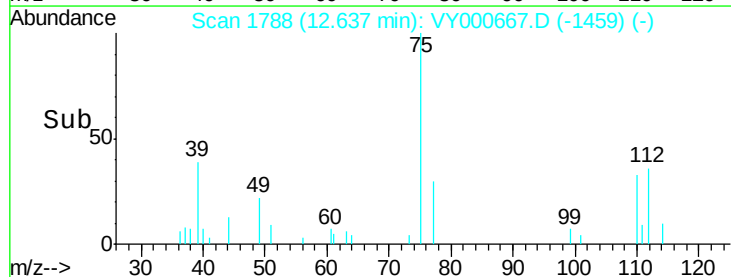
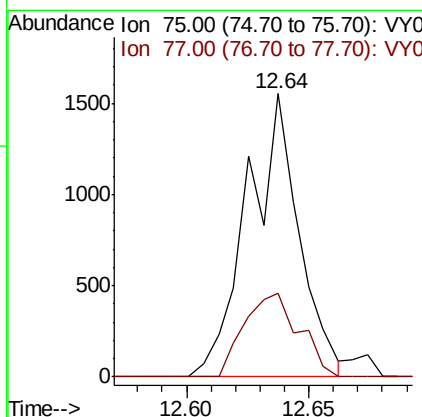
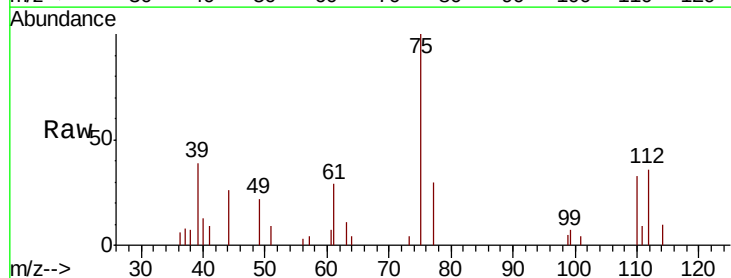
RT: 12.64 min Scan# 1788

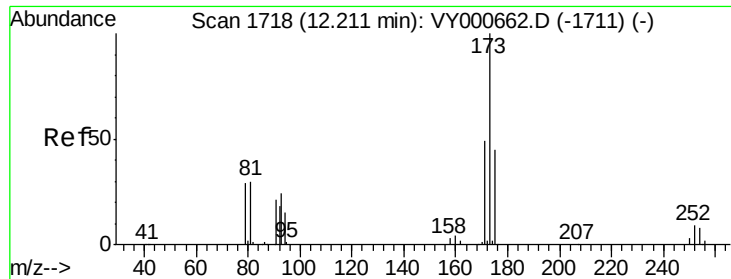
Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Tgt Ion:	75	Resp:	2265
Ion Ratio	Lower	Upper	
75	100		
77	31.6	26.4	39.6





#62

Bromoform

Concen: 0.452 ug/L

RT: 12.21 min Scan# 1718

Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

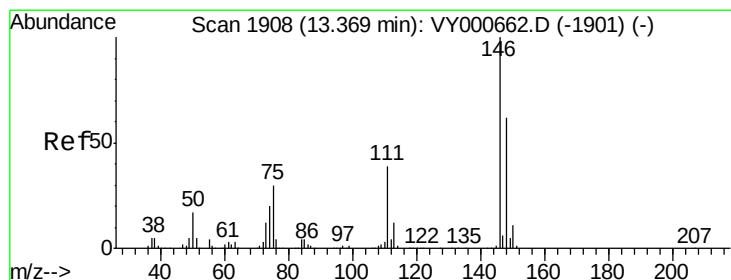
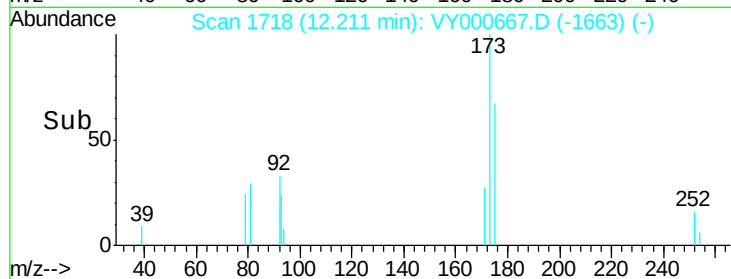
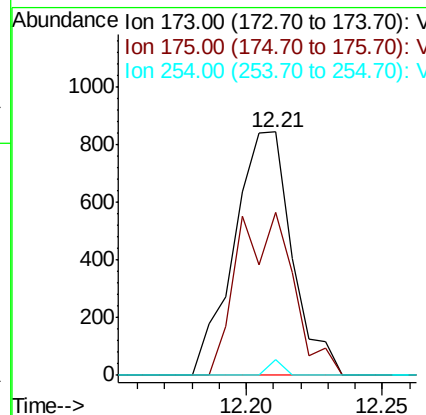
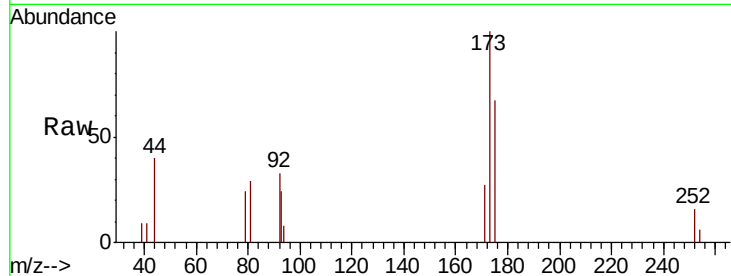
ClientSampled :

MDL04

Tot Ion	Ratio	Lower	Upper
173	100		
175	32.3	37.8	56.6#
254	0.0	7.7	11.5#

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM



#63

1,3-Dichlorobenzene

Concen: 0.587 ug/L

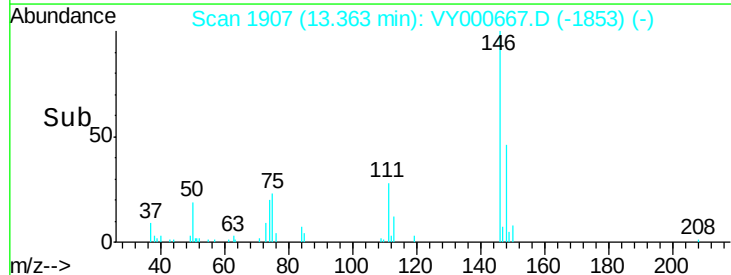
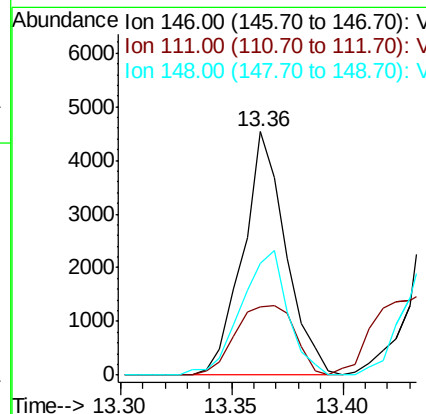
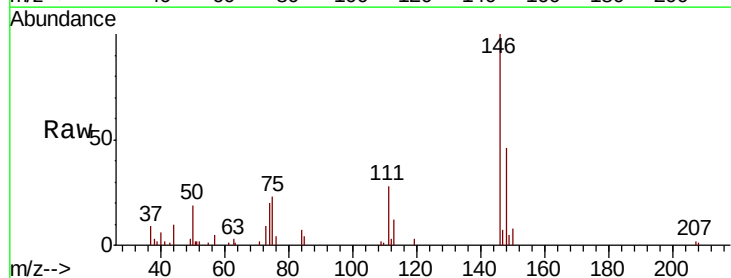
RT: 13.36 min Scan# 1907

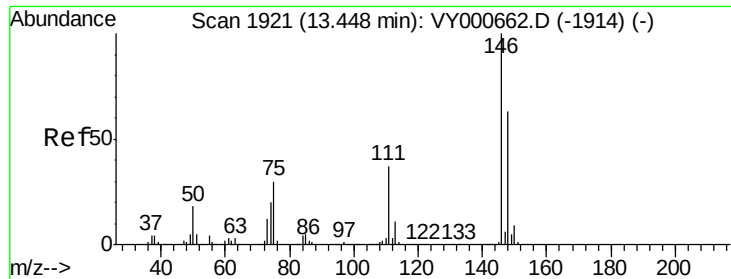
Delta R.T. 0.00 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	28.3	28.8	53.6#
148	46.0	44.3	82.3





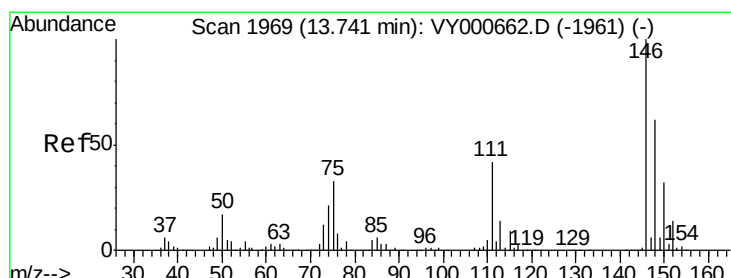
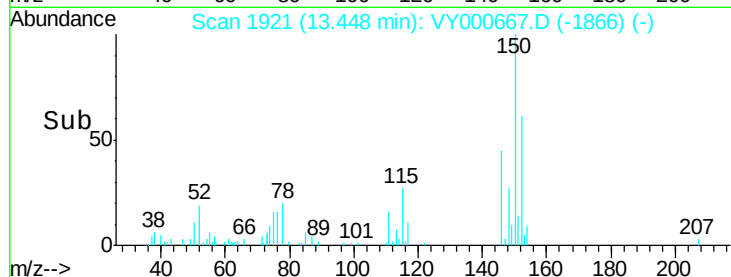
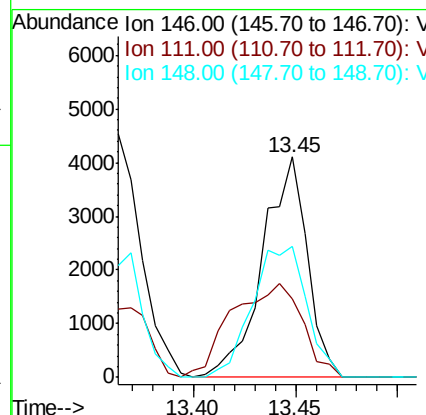
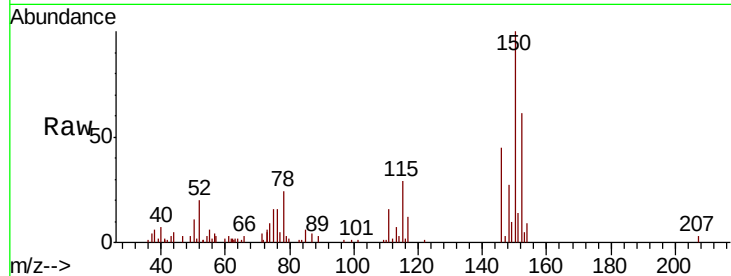
#64
 1,4-Dichlorobenzene
 Concen: 0.605 ug/L
 RT: 13.45 min Scan# 1921
 Delta R.T. 0.01 min
 Lab File: VY000667.D
 Acq: 13 Nov 2019 12:59

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.9	26.7	49.5
148	59.7	45.2	84.0

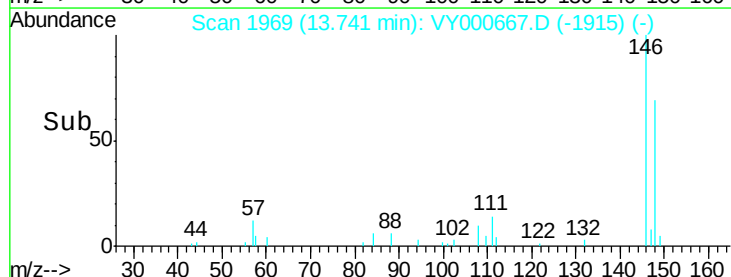
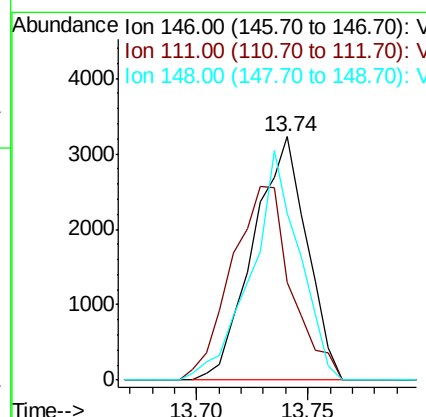
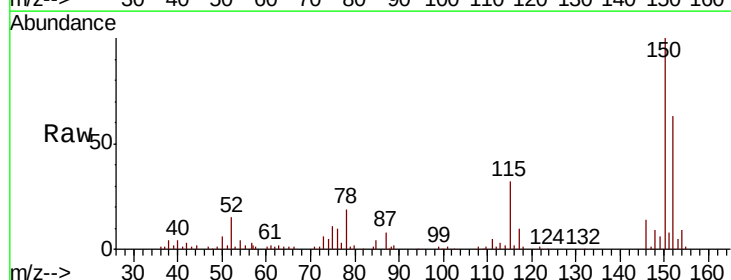
Manual Integrations
 APPROVED

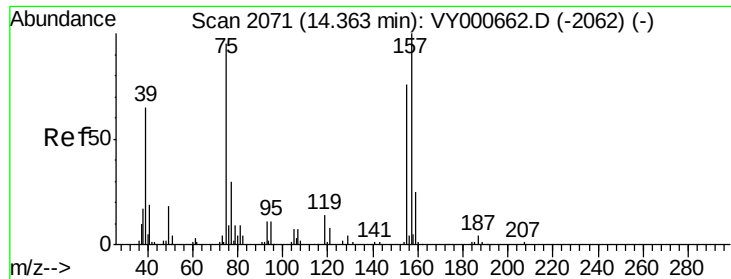
MMDADODA
 11/19/2019 11:59:18 AM



#65
 1,2-Dichlorobenzene
 Concen: 0.563 ug/L
 RT: 13.74 min Scan# 1969
 Delta R.T. 0.00 min
 Lab File: VY000667.D
 Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	33.8	50.8
148	68.8	51.0	76.6





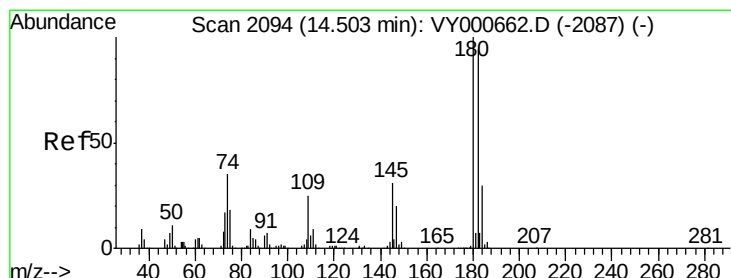
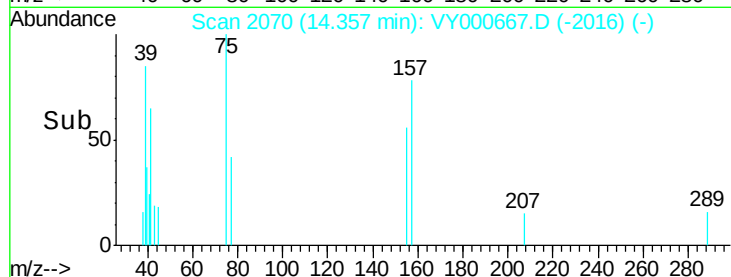
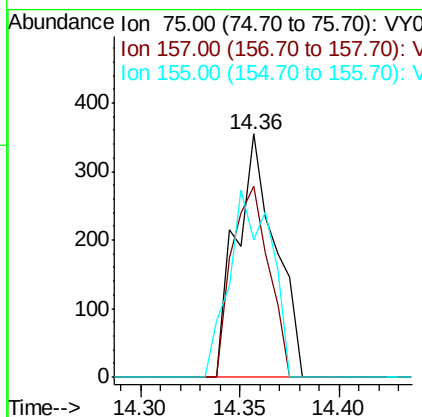
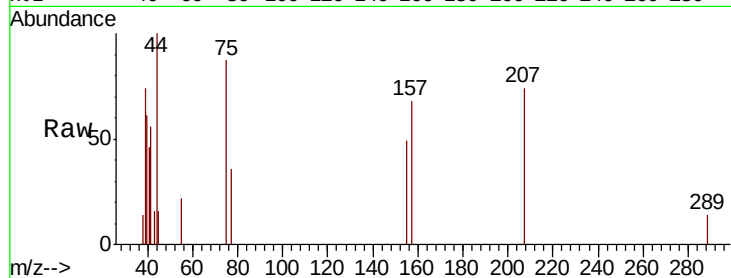
#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.528 ug/L m
 RT: 14.36 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: VY000667.D
 Acq: 13 Nov 2019 12:59

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
157	78.3	78.1	117.1
155	56.3	64.2	96.4#

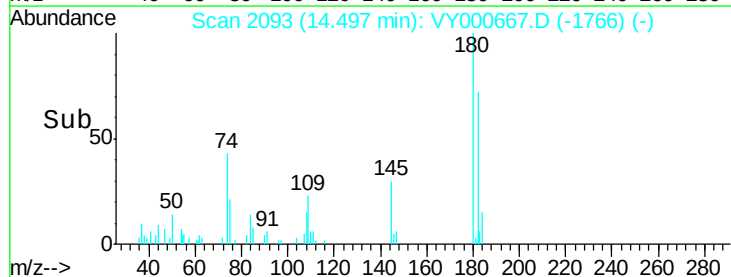
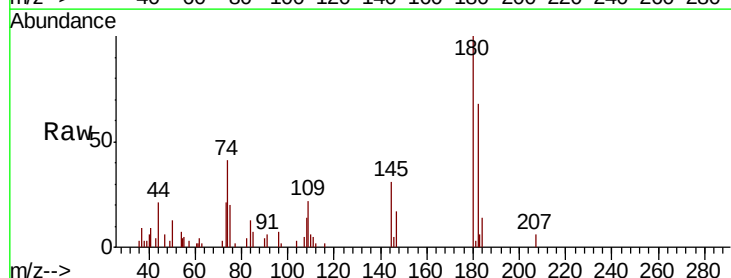
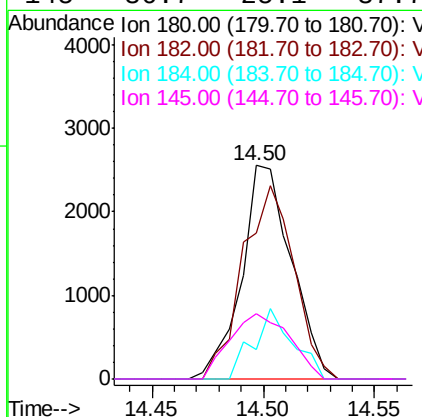
Manual Integrations
 APPROVED

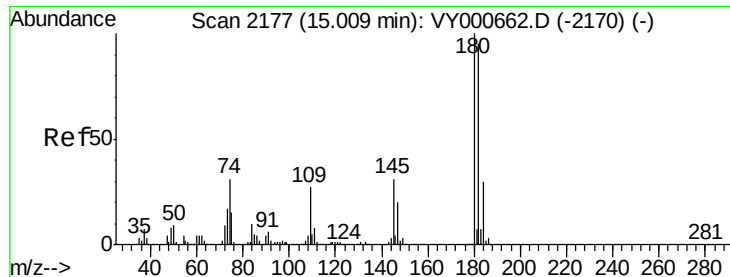
MMDADODA
 11/19/2019 11:59:18 AM



#67
 1,3,5-Trichlorobenzene
 Concen: 0.552 ug/L
 RT: 14.50 min Scan# 2093
 Delta R.T. -0.01 min
 Lab File: VY000667.D
 Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.0	75.6	113.4
184	26.2	24.5	36.7
145	36.7	25.1	37.7





#68

1,2,4-trichlorobenzene

Concen: 0.633 ug/L

RT: 15.00 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Instrument :

MSVOA_Y

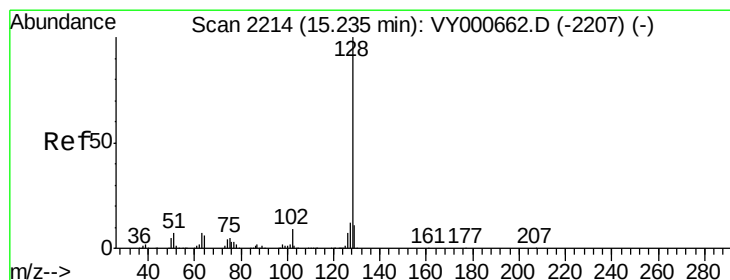
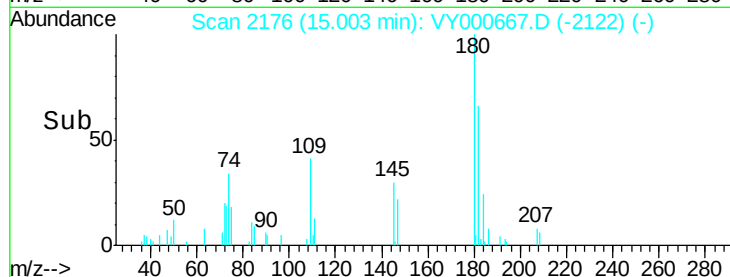
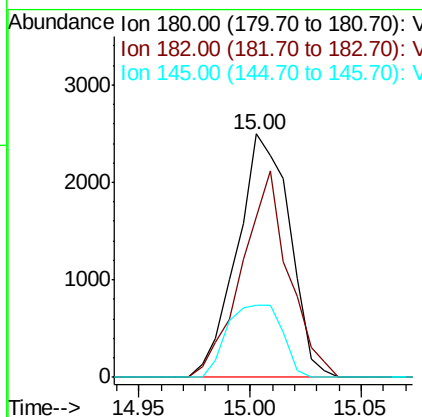
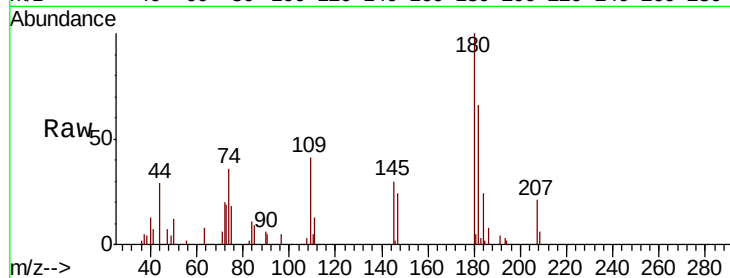
ClientSampleId :

MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	76.1	77.5	116.3#
145	31.1	25.4	38.2

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:59:18 AM



#69

Naphthalene

Concen: 0.535 ug/L

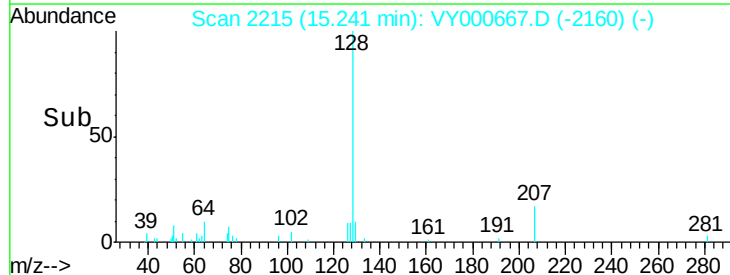
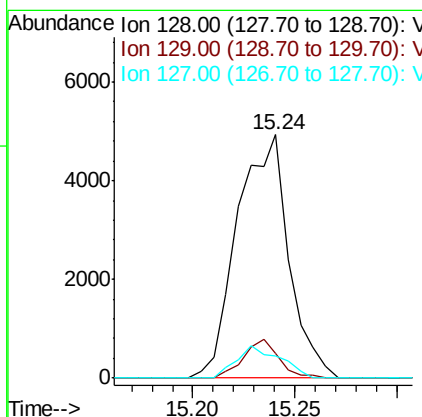
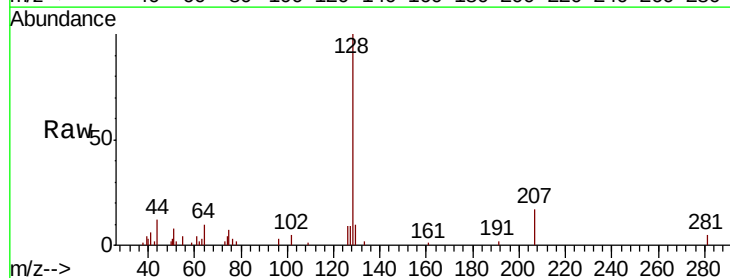
RT: 15.24 min Scan# 2215

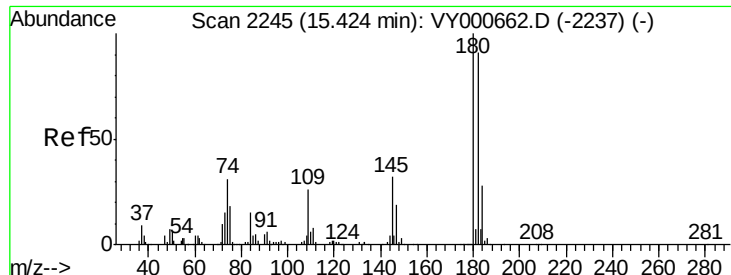
Delta R.T. 0.01 min

Lab File: VY000667.D

Acq: 13 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.4	12.6
127	11.2	9.8	14.6





#70
 1,2,3-Trichlorobenzene
 Concen: 0.574 ug/L
 RT: 15.42 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: VY000667.D
 Acq: 13 Nov 2019 12:59

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.6	76.2	114.4
145	22.9	26.6	39.8

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:59:18 AM

