

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101918\
 Data File : VR026145.D
 Acq On : 19 Oct 2018 12:25
 Operator : SY/MD
 Sample : MDL
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:17:36 PM

Quant Time: Oct 20 04:41:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 20 01:53:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	559175	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	472134	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	154900	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	185456	3.79	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.80%
7) Chloroethane-d5	2.63	69	192962	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.80%
11) 1,1-Dichloroethene-d2	3.61	63	364863	3.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.80%
20) 2-Butanone-d5	6.59	46	223422	55.61	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.22%
24) Chloroform-d	7.20	84	343969	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
26) 1,2-Dichloroethane-d4	7.90	65	147559	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.20%
32) Benzene-d6	7.85	84	655691	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.40%
36) 1,2-Dichloropropane-d6	8.90	67	189036	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.60%
41) Toluene-d8	9.97	98	580552	4.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.00%
43) trans-1,3-Dichloropropene-	10.24	79	38448	3.74	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.80%
46) 2-Hexanone-d5	10.59	63	165307	55.72	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.44%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	76792	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	13.51	152	114327	4.67	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.84	85	11283m	0.300	ug/L	
3) Chloromethane	2.01	50	18054	0.303	ug/L	92
5) Vinyl chloride	2.16	62	17500	0.295	ug/L #	55
6) Bromomethane	2.52	94	12858	0.328	ug/L	100
8) Chloroethane	2.66	64	12890	0.350	ug/L	94
9) Trichlorofluoromethane	2.94	101	26512m	0.309	ug/L	
10) 1,1,2-Trichloro-1,2,2-trif	3.67	101	18054	0.353	ug/L	89
12) 1,1-Dichloroethene	3.63	96	20373	0.375	ug/L #	1
13) Acetone	3.70	43	16245	3.911	ug/L	95
14) Carbon disulfide	3.94	76	35186	0.248	ug/L #	91
15) Methyl Acetate	4.20	43	4593	0.423	ug/L	97
16) Methylene chloride	4.42	84	18660	0.378	ug/L	91
17) Methyl tert-butyl Ether	4.89	73	13735	0.278	ug/L #	89
18) trans-1,2-Dichloroethene	4.89	96	12012	0.292	ug/L	89
19) 1,1-Dichloroethane	5.69	63	22767	0.295	ug/L #	84
21) 2-Butanone	6.69	43	13759	2.872	ug/L	96
22) cis-1,2-Dichloroethene	6.67	96	12392	0.319	ug/L #	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101918\
 Data File : VR026145.D
 Acq On : 19 Oct 2018 12:25
 Operator : SY/MD
 Sample : MDL
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:17:36 PM

Quant Time: Oct 20 04:41:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 20 01:53:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.04	128	3523	0.323	ug/L	72
25) Chloroform	7.23	83	23036	0.306	ug/L	81
27) 1,2-Dichloroethane	8.00	62	11537	0.313	ug/L	98
29) 1,1,1-Trichloroethane	7.43	97	18748	0.291	ug/L	98
30) Cyclohexane	7.51	56	13317	0.206	ug/L	93
31) Carbon tetrachloride	7.65	117	16247	0.277	ug/L	91
33) Benzene	7.91	78	51691m	0.292	ug/L	
34) Trichloroethene	8.71	95	12932	0.285	ug/L	86
35) Methylcyclohexane	8.96	83	16586	0.246	ug/L	94
37) 1,2-Dichloropropane	9.00	63	11686	0.313	ug/L #	95
38) Bromodichloromethane	9.28	83	11448	0.285	ug/L #	75
39) cis-1,3-Dichloropropene	9.72	75	12091	0.283	ug/L	94
40) 4-Methyl-2-pentanone	9.86	43	27003	2.366	ug/L #	91
42) Toluene	10.03	91	53251	0.285	ug/L	91
44) trans-1,3-Dichloropropene	10.26	75	9458	0.316	ug/L	90
45) 1,1,2-Trichloroethane	10.45	97	5582	0.354	ug/L #	79
47) Tetrachloroethene	10.51	164	8917	0.275	ug/L	91
48) 2-Hexanone	10.63	43	22629	3.035	ug/L	97
49) Dibromochloromethane	10.79	129	5071	0.286	ug/L #	69
50) 1,2-Dibromoethane	10.89	107	4360	0.320	ug/L #	97
51) Chlorobenzene	11.32	112	29091	0.281	ug/L	91
52) Ethylbenzene	11.39	91	53728	0.250	ug/L	100
53) m,p-Xylene	11.50	106	16963	0.217	ug/L	98
54) o-Xylene	11.83	106	15094	0.210	ug/L	92
55) Styrene	11.84	104	19921	0.180	ug/L	93
56) Isopropylbenzene	12.13	105	39732	0.199	ug/L	96
58) 1,1,1,2,2-Tetrachloroethane	12.39	83	5371	0.335	ug/L	89
59) 1,2,3-Trichloropropane	12.43	75	3430m	0.292	ug/L	
61) Bromoform	12.00	173	1553	0.288	ug/L #	79
62) 1,3-Dichlorobenzene	13.16	146	13696	0.266	ug/L	86
63) 1,4-Dichlorobenzene	13.24	146	17735	0.333	ug/L #	91
65) 1,2-Dichlorobenzene	13.53	146	12724	0.308	ug/L	90
66) 1,2-Dibromo-3-chloropropan	14.14	75	416m	0.247	ug/L	
67) 1,3,5-Trichlorobenzene	14.29	180	8854	0.282	ug/L	90
68) 1,2,4-trichlorobenzene	14.79	180	5460	0.298	ug/L	89
69) Naphthalene	15.00	128	3683	0.207	ug/L #	87
70) 1,2,3-Trichlorobenzene	15.18	180	4016	0.316	ug/L	92

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

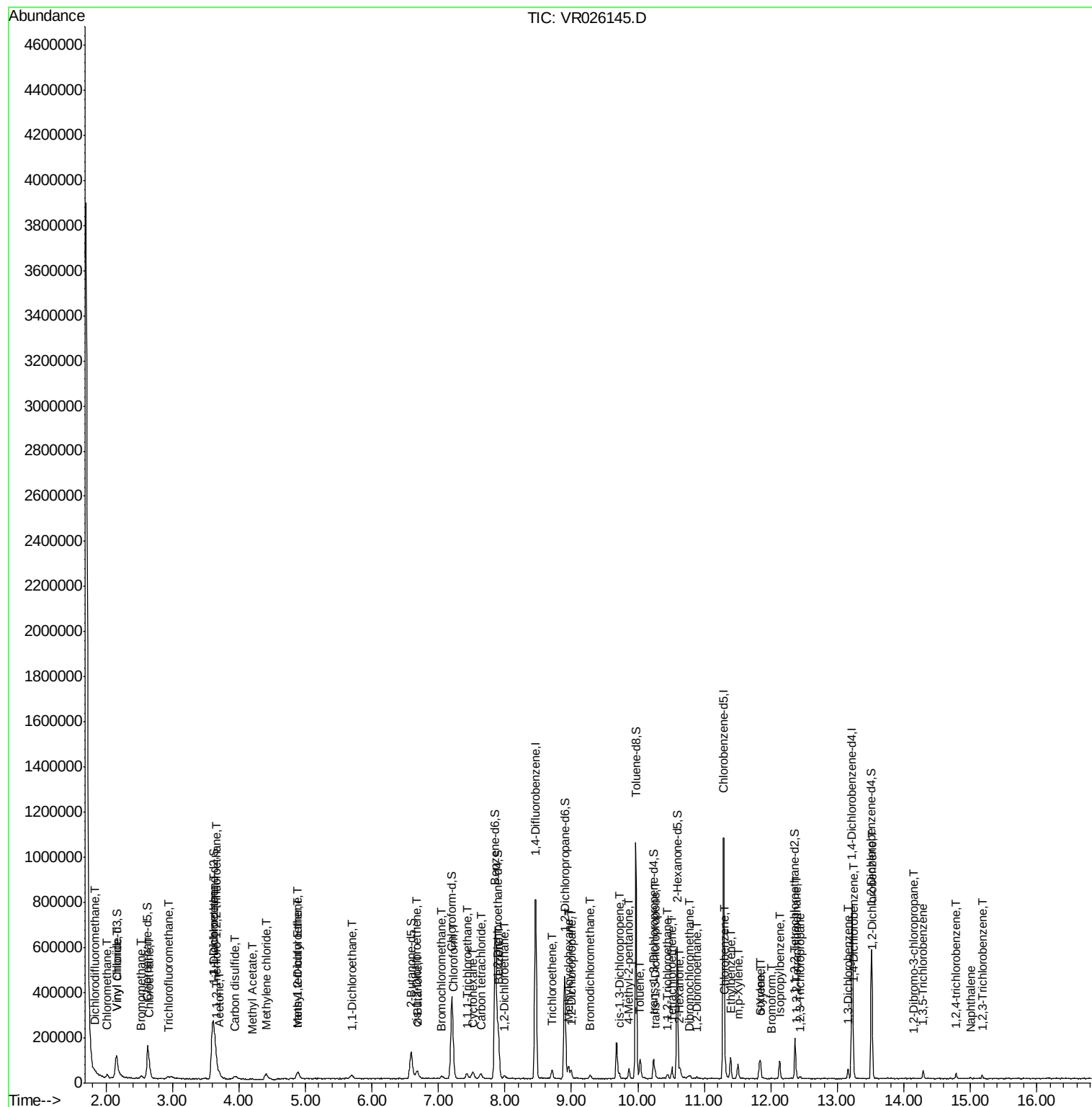
Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101918\
Data File : VR026145.D
Acq On : 19 Oct 2018 12:25
Operator : SY/MD
Sample : MDL
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

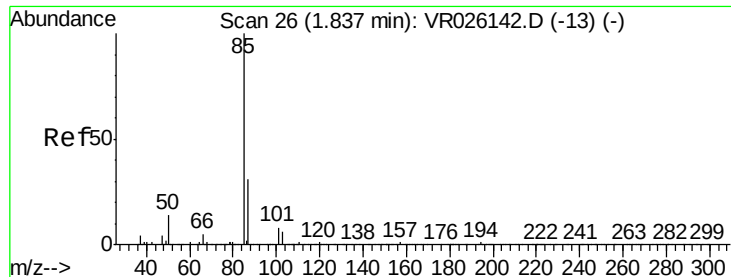
Instrument :
MSVOA_R
ClientSampled :
MDL

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM

Quant Time: Oct 20 04:41:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration





#2

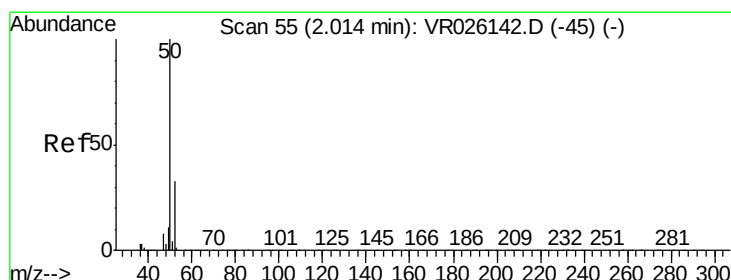
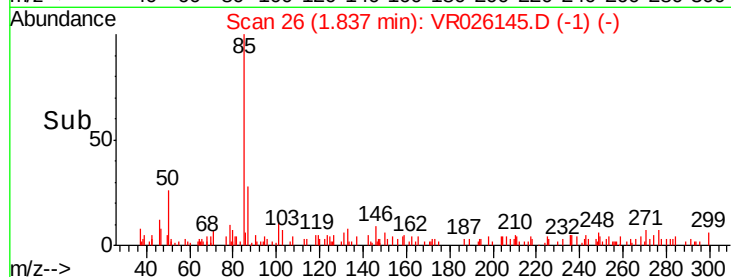
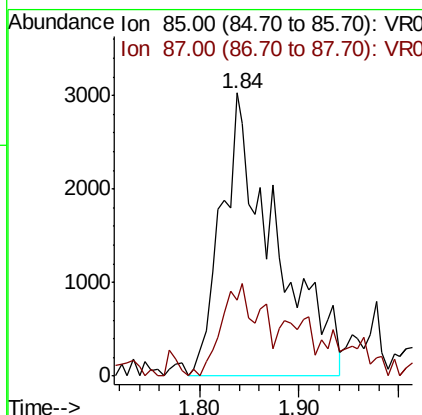
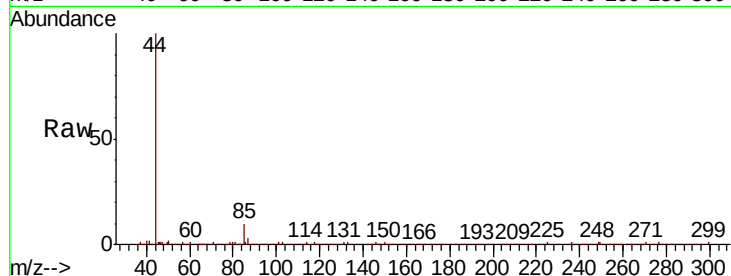
Dichlorodifluoromethane
 Concen: 0.300 ug/L m
 RT: 1.84 min Scan# 26
 Delta R.T. 0.00 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion	85	Resp	11283
Ion Ratio	100	Lower	Upper
87	1.0	23.4	35.2#

Manual Integrations
 APPROVED

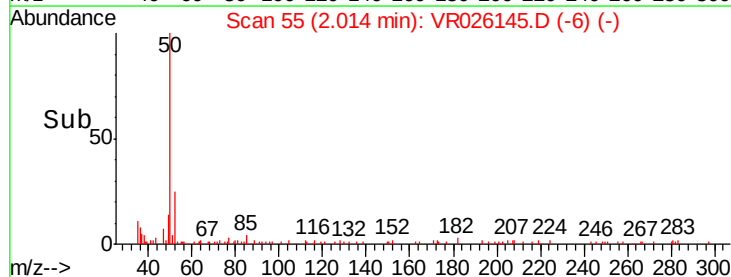
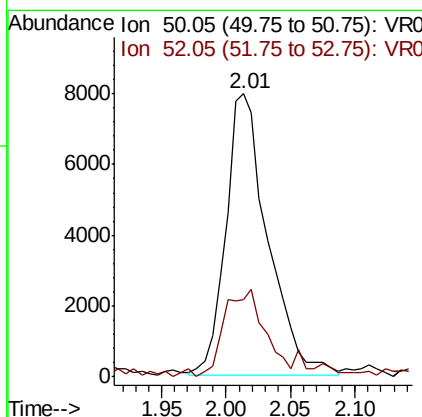
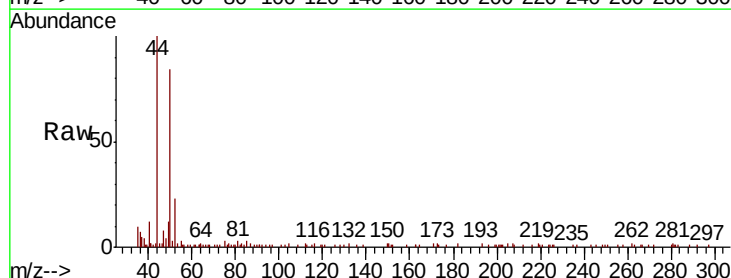
MMDadoda
 10/24/2018 12:17:36 PM

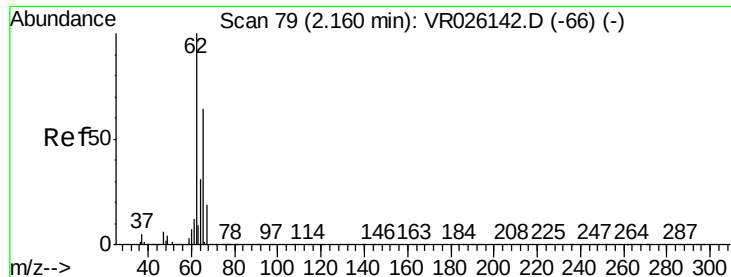


#3

Chloromethane
 Concen: 0.303 ug/L
 RT: 2.01 min Scan# 55
 Delta R.T. 0.00 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Tgt Ion	50	Resp	18054
Ion Ratio	100	Lower	Upper
52	27.2	22.0	40.8





#5

Vinyl chloride

Concen: 0.295 ug/L

RT: 2.16 min Scan# 79

Delta R.T. 0.00 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

ClientSampled :

MDL

Tot Ion: 62 Resp: 17500

Ion Ratio Lower Upper

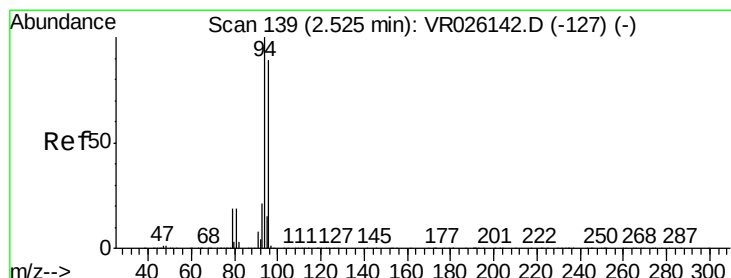
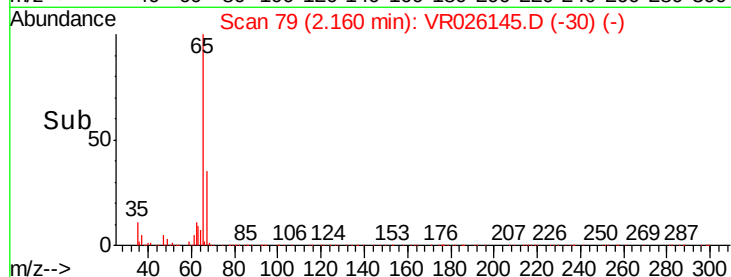
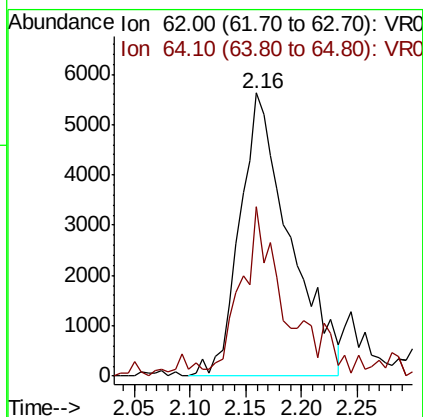
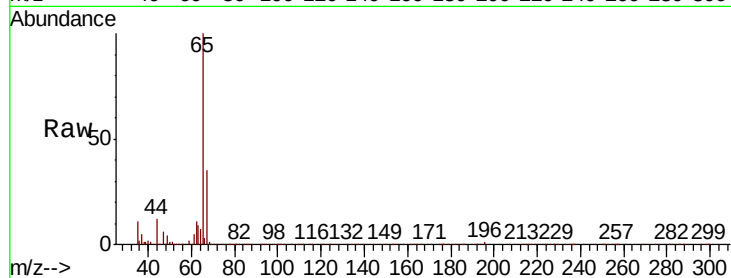
62 100

64 59.9 23.9 44.3#

Manual Integrations
APPROVED

MMDadoda

10/24/2018 12:17:36 PM



#6

Bromomethane

Concen: 0.328 ug/L

RT: 2.52 min Scan# 139

Delta R.T. 0.00 min

Lab File: VR026145.D

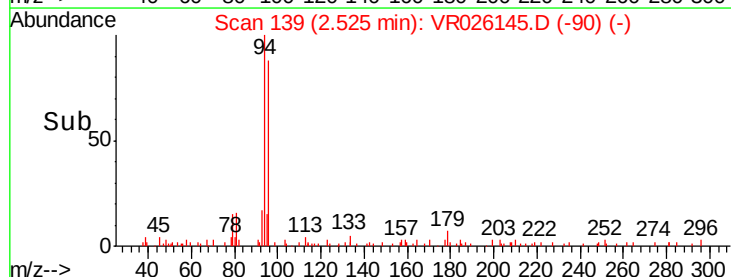
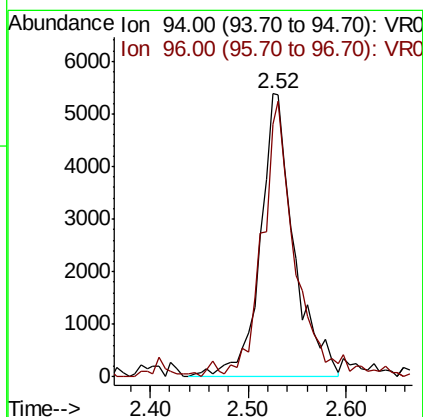
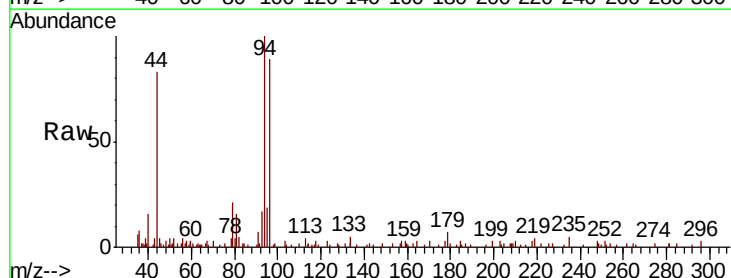
Acq: 19 Oct 2018 12:25

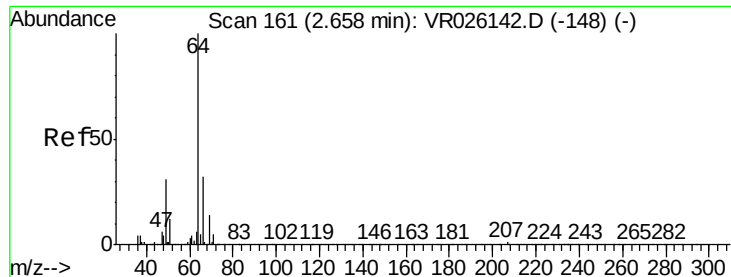
Tgt Ion: 94 Resp: 12858

Ion Ratio Lower Upper

94 100

96 89.3 62.5 116.1





#8

Chloroethane

Concen: 0.350 ug/L

RT: 2.66 min Scan# 161

Delta R.T. 0.00 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

ClientSampleId :

MDL

Tot Ion: 64 Resp: 12890

Ion Ratio Lower Upper

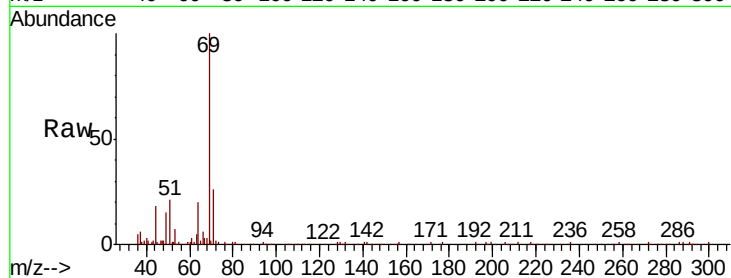
64 100

66 28.3 22.0 40.8

Manual Integrations
APPROVED

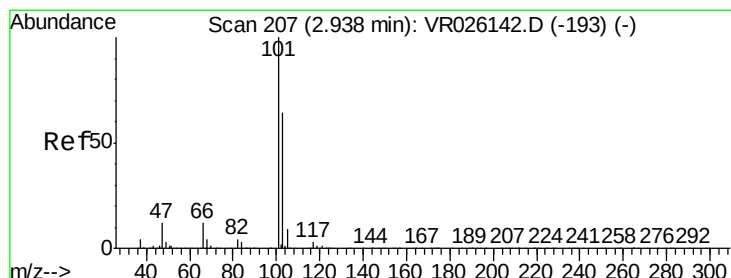
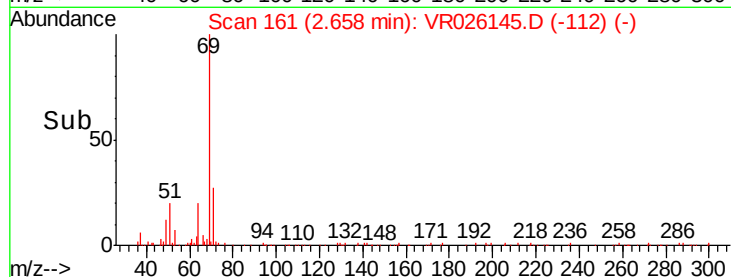
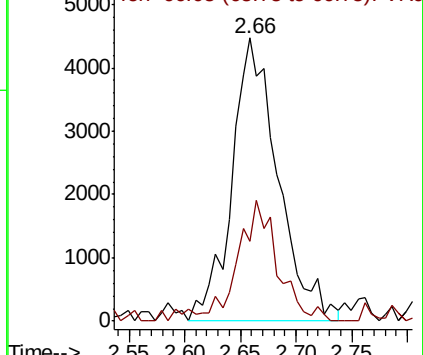
MMDadoda

10/24/2018 12:17:36 PM



Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0



#9

Trichlorofluoromethane

Concen: 0.309 ug/L m

RT: 2.94 min Scan# 208

Delta R.T. 0.01 min

Lab File: VR026145.D

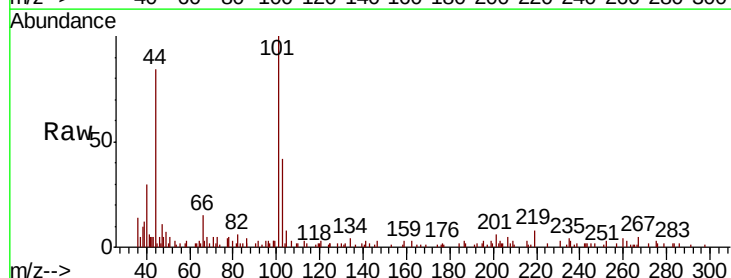
Acq: 19 Oct 2018 12:25

Tgt Ion: 101 Resp: 26512

Ion Ratio Lower Upper

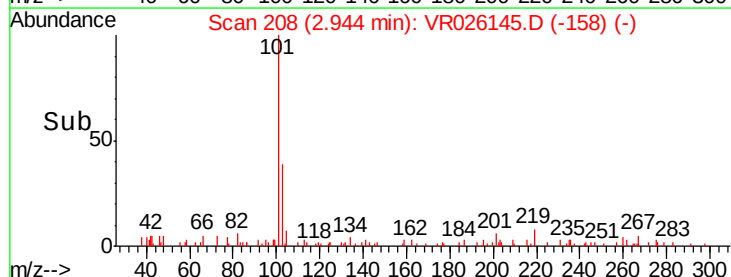
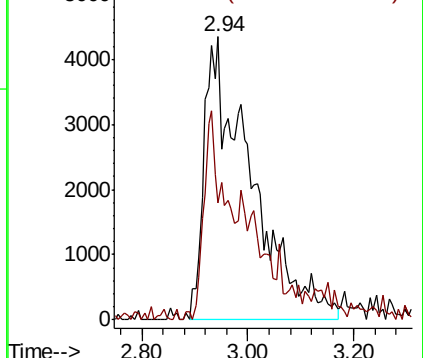
101 100

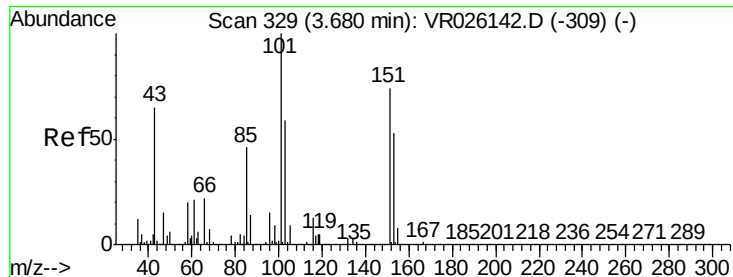
103 32.7 26.0 39.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.353 ug/L

RT: 3.67 min Scan# 328

Delta R.T. -0.01 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

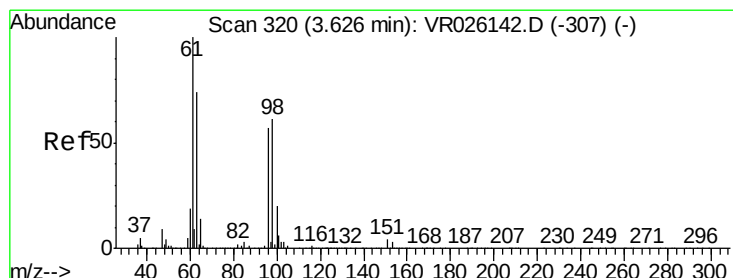
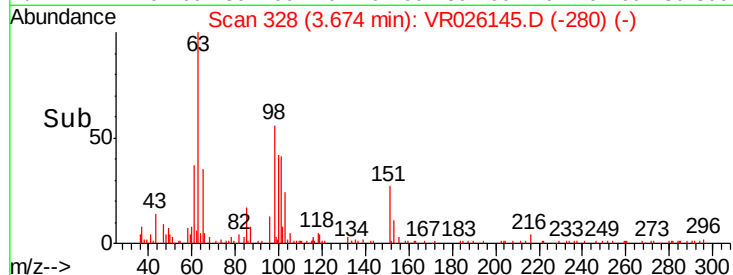
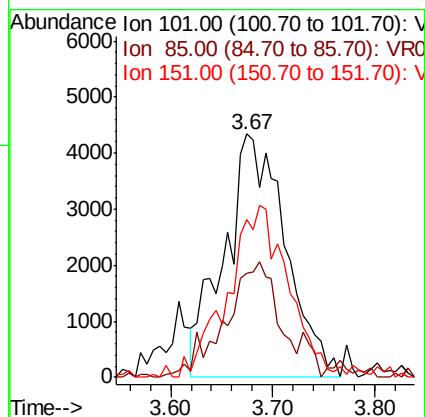
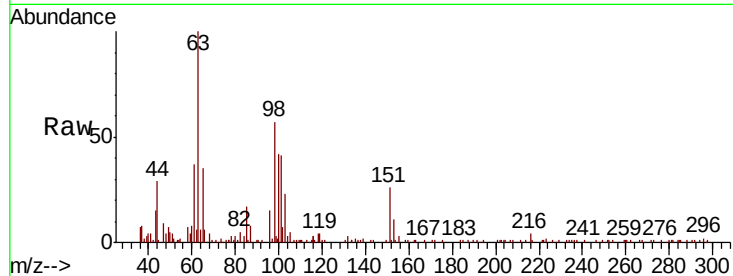
ClientSampled :

MDL

Tot Ion:	101	Resp:	18054
Ion Ratio	Lower	Upper	
101	100		
85	40.5	37.8	56.8
151	68.8	63.2	94.8

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM



#12

1,1-Dichloroethene

Concen: 0.375 ug/L

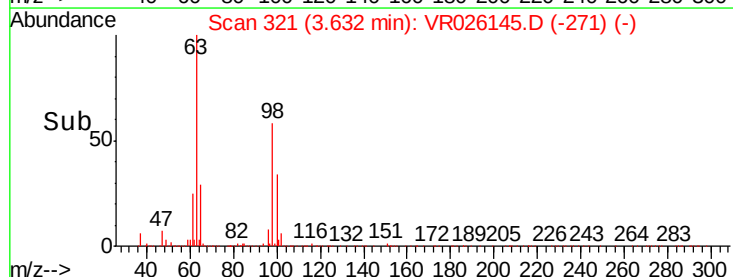
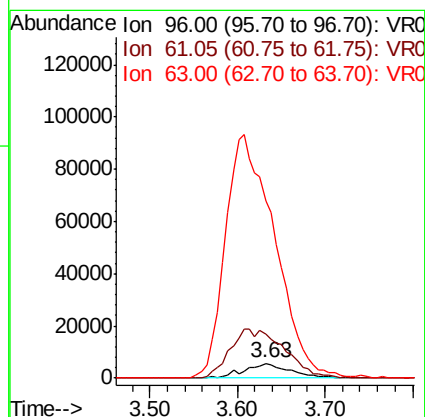
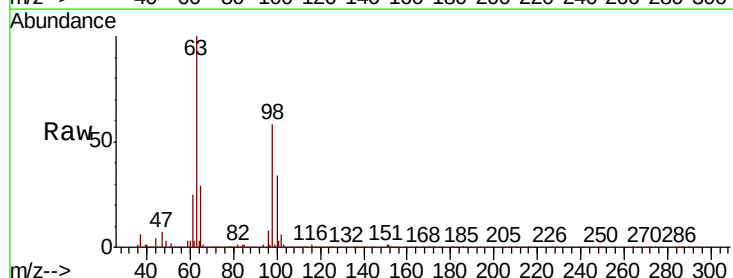
RT: 3.63 min Scan# 321

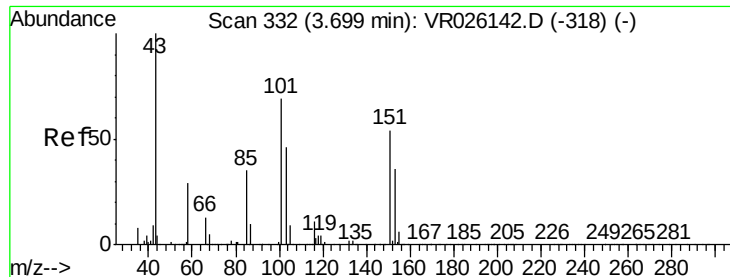
Delta R.T. 0.01 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Tgt Ion:	96	Resp:	20373
Ion Ratio	Lower	Upper	
96	100		
61	296.7	126.7	235.3#
63	1185.2	125.0	232.2#





#13

Acetone

Concen: 3.911 ug/L

RT: 3.70 min Scan# 333

Delta R.T. 0.01 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

ClientSampleId :

MDL

Tot Ion: 43 Resp: 16245

Ion Ratio Lower Upper

43 100

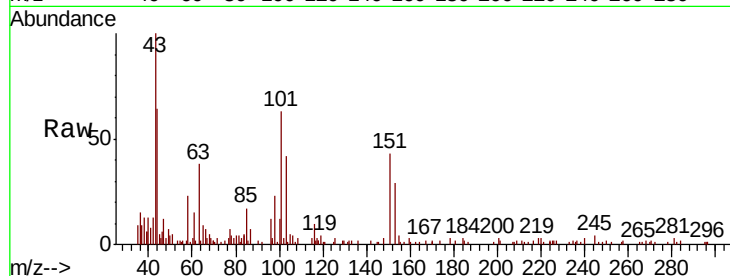
58 25.3 0.0 55.4

Manual Integrations

APPROVED

MMDadoda

10/24/2018 12:17:36 PM



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0

6000

5000

4000

3000

2000

1000

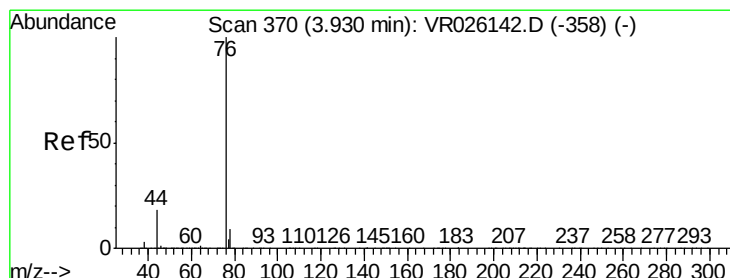
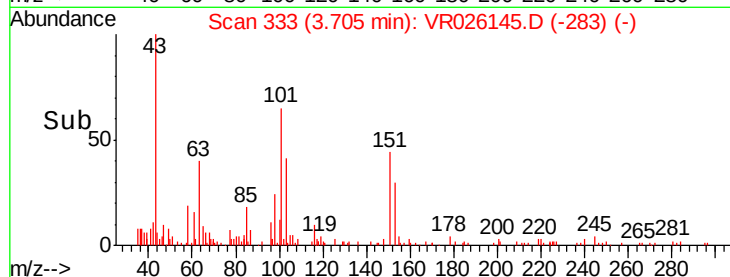
0

3.60

3.70

3.80

Time-->



#14

Carbon disulfide

Concen: 0.248 ug/L

RT: 3.94 min Scan# 371

Delta R.T. 0.01 min

Lab File: VR026145.D

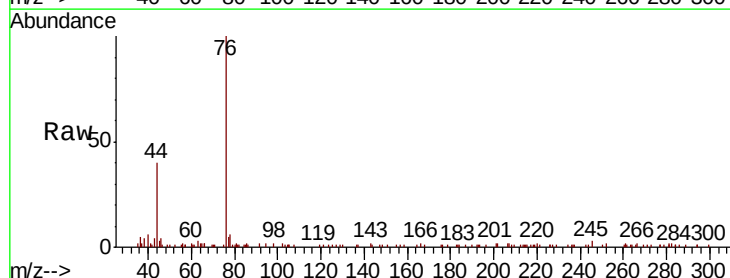
Acq: 19 Oct 2018 12:25

Tgt Ion: 76 Resp: 35186

Ion Ratio Lower Upper

76 100

78 6.2 7.6 11.4#



Abundance Ion 76.05 (75.75 to 76.75): VR0

Ion 78.00 (77.70 to 78.70): VR0

10000

8000

6000

4000

2000

0

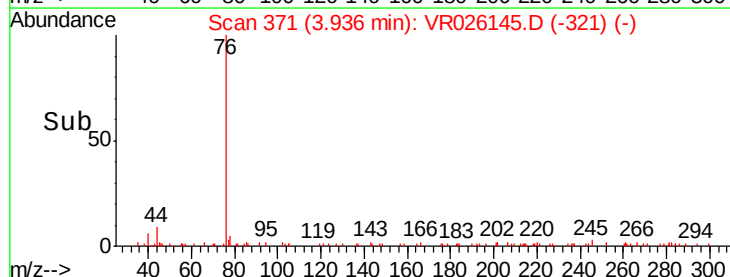
3.80

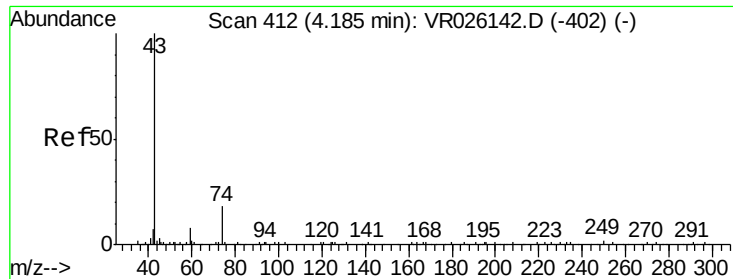
3.90

4.00

4.10

Time-->





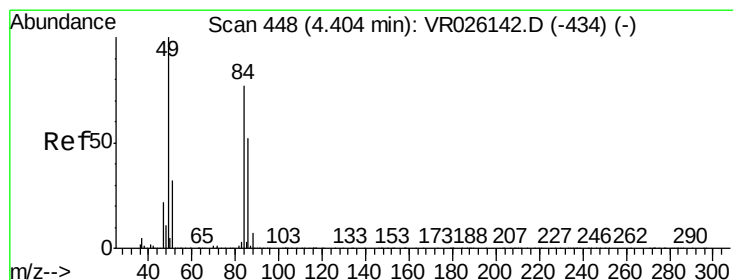
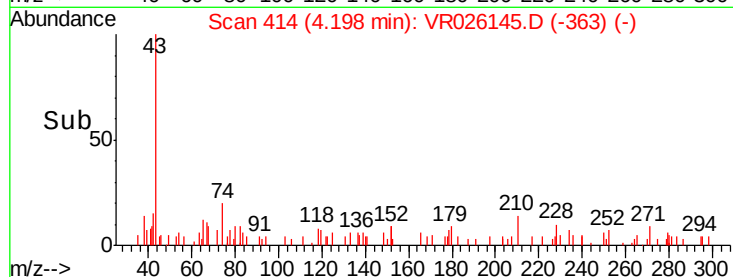
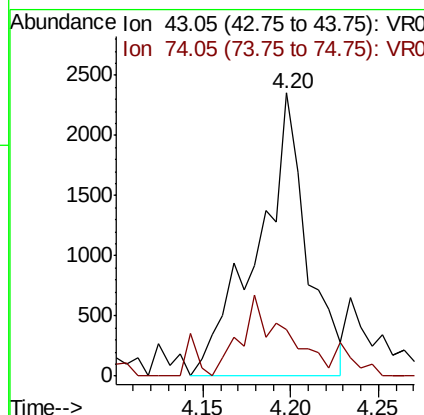
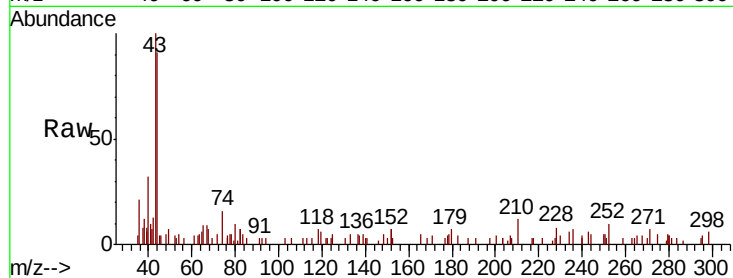
#15
Methyl Acetate
Concen: 0.423 ug/L
RT: 4.20 min Scan# 414
Delta R.T. 0.01 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Lower	Upper
43	100		
74	26.1	19.8	29.8

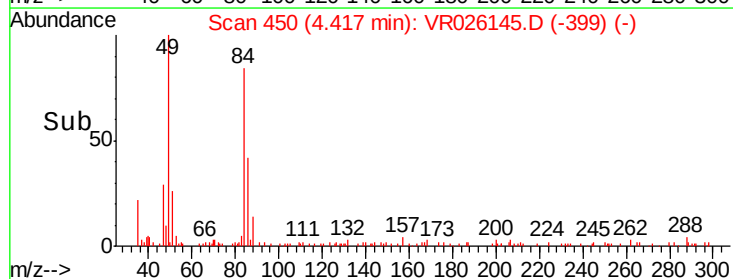
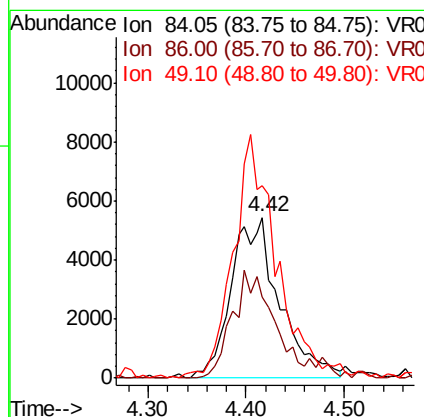
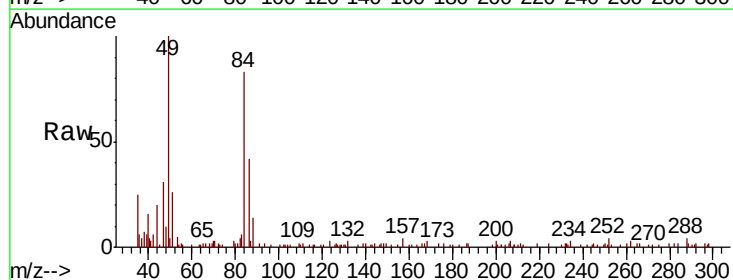
Manual Integrations
APPROVED

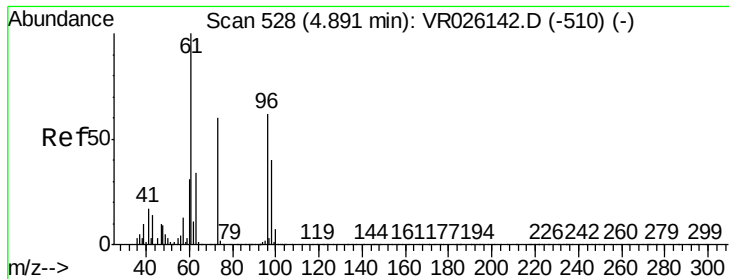
MMDadoda
10/24/2018 12:17:36 PM



#16
Methylene chloride
Concen: 0.378 ug/L
RT: 4.42 min Scan# 450
Delta R.T. 0.01 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Tgt Ion	Ratio	Lower	Upper
84	100		
86	50.8	43.0	79.8
49	120.1	89.1	165.5





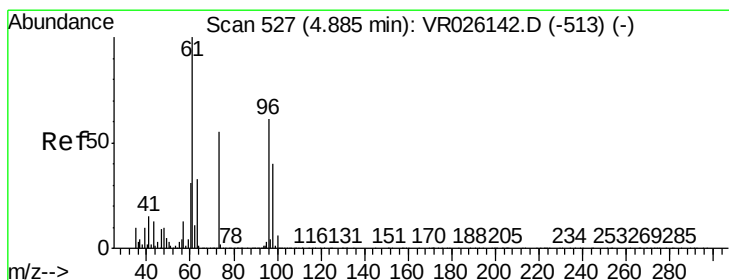
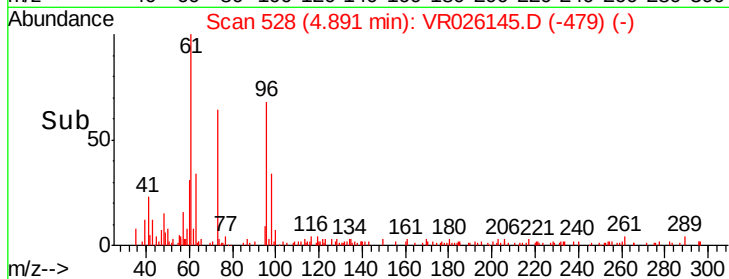
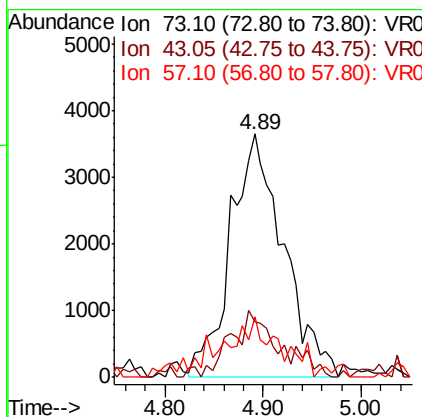
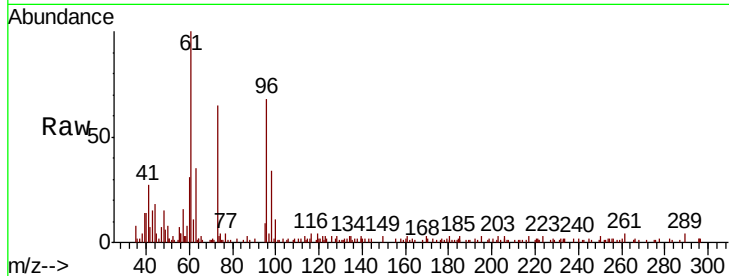
#17
Methvl tert-butvl Ether
Concen: 0.278 ug/L
RT: 4.89 min Scan# 528
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Lower	Upper
73	100		
43	20.8	20.1	30.1
57	17.0	19.0	28.4#

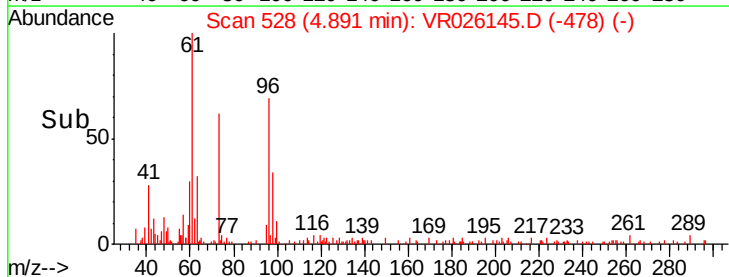
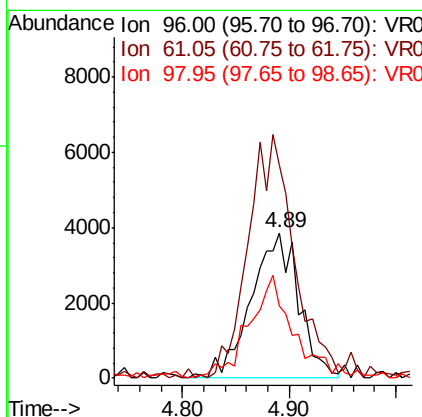
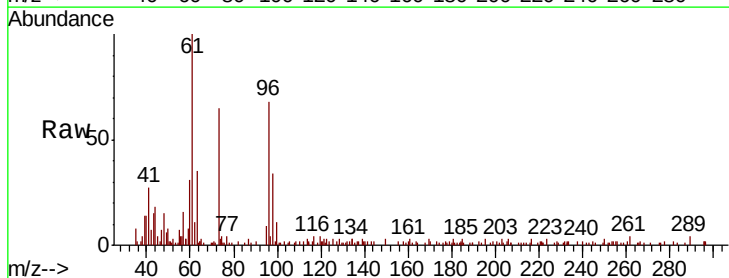
Manual Integrations
APPROVED

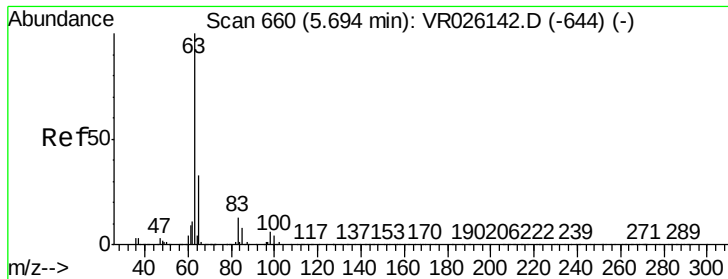
MMDadoda
10/24/2018 12:17:36 PM



#18
trans-1,2-Dichloroethene
Concen: 0.292 ug/L
RT: 4.89 min Scan# 528
Delta R.T. 0.01 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.4	111.4	206.8
98	49.5	41.4	77.0





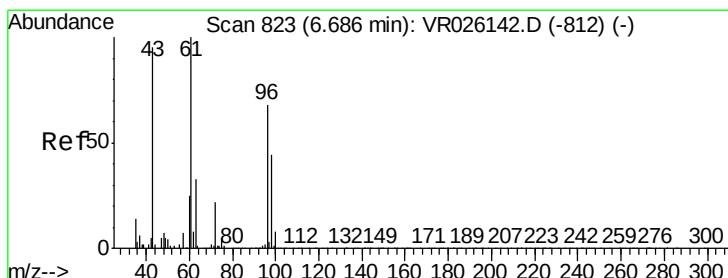
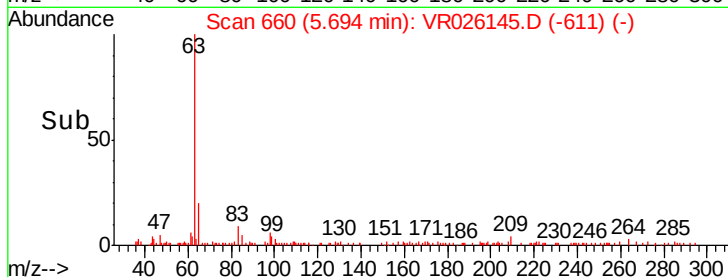
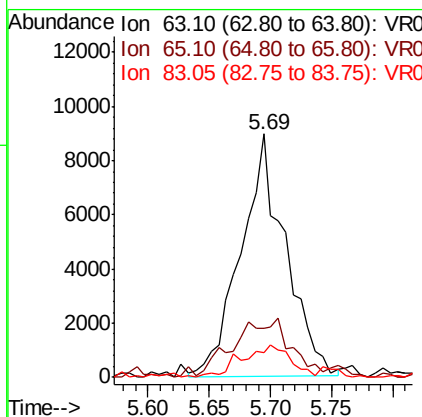
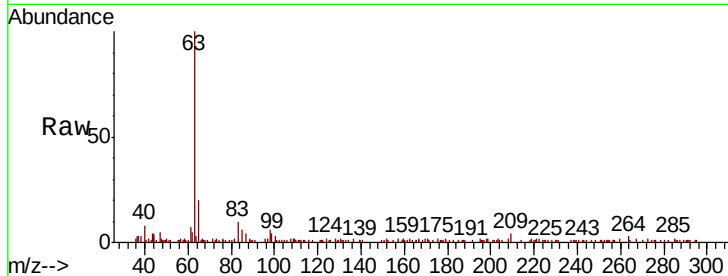
#19
 1,1-Dichloroethane
 Concen: 0.295 ug/L
 RT: 5.69 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion:	63	Resp:	22767
Ion Ratio		Lower	Upper
63	100		
65	19.9	21.2	39.4#
83	10.0	9.2	17.2

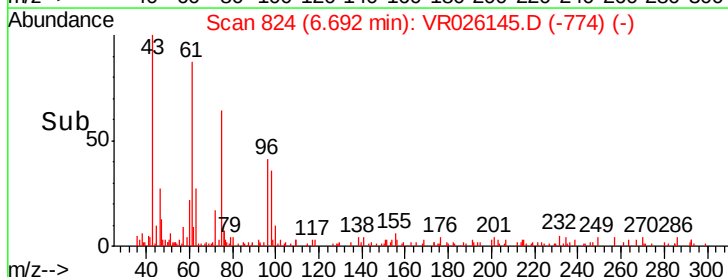
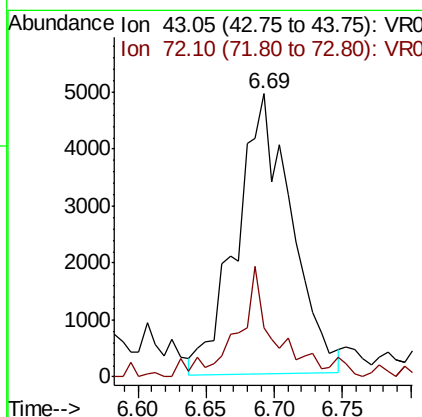
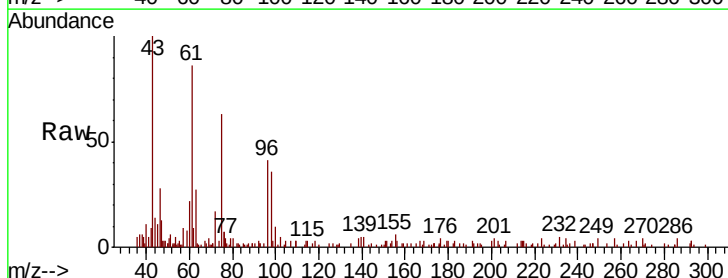
Manual Integrations
 APPROVED

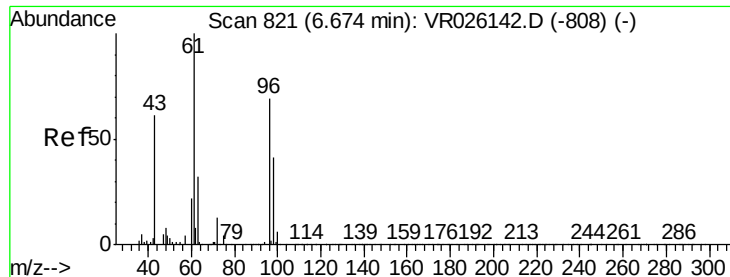
MMDadoda
 10/24/2018 12:17:36 PM



#21
 2-Butanone
 Concen: 2.872 ug/L
 RT: 6.69 min Scan# 824
 Delta R.T. 0.01 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Tgt Ion:	43	Resp:	13759
Ion Ratio		Lower	Upper
43	100		
72	26.3	12.3	36.8





#22

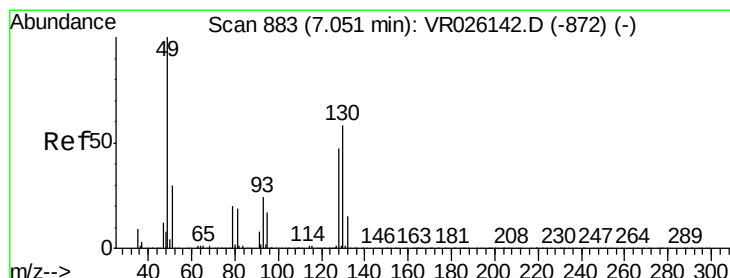
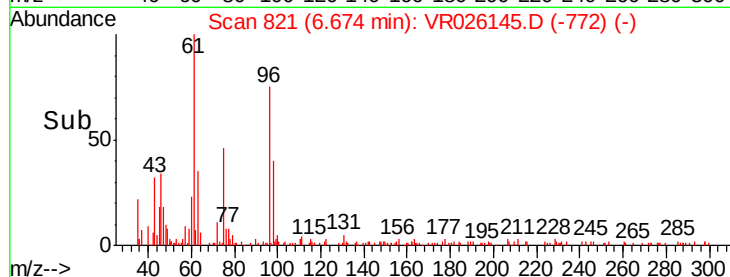
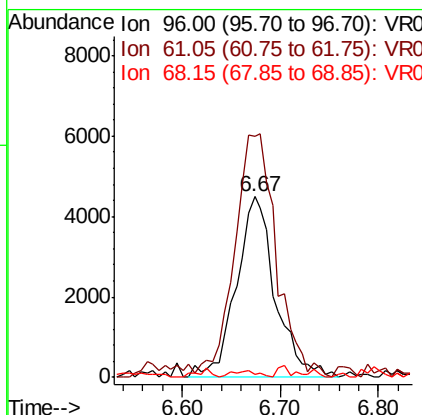
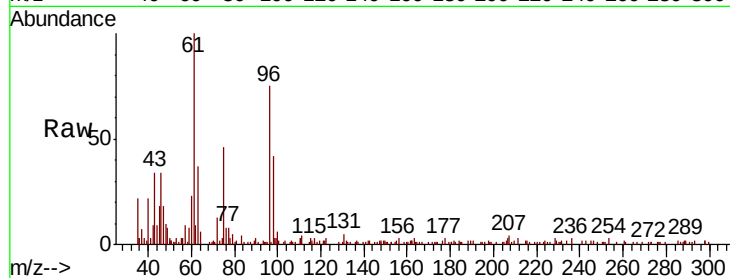
cis-1,2-Dichloroethene
Concen: 0.319 ug/L
RT: 6.67 min Scan# 821
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.6	101.8	189.0
68	1.9	0.1	0.3#

Manual Integrations
APPROVED

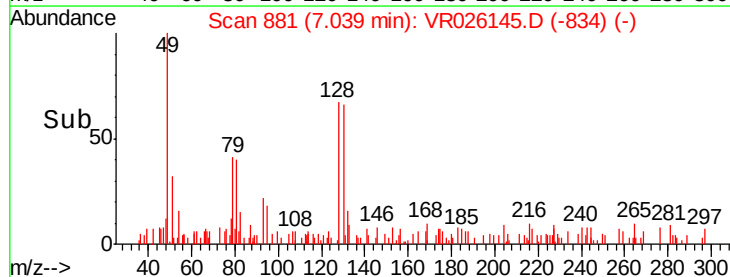
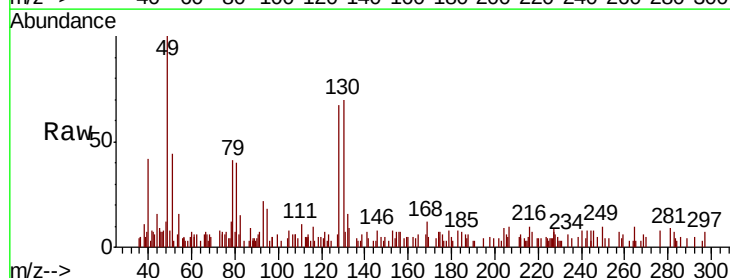
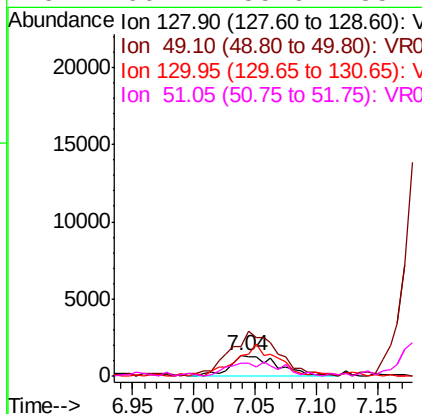
MMDadoda
10/24/2018 12:17:36 PM

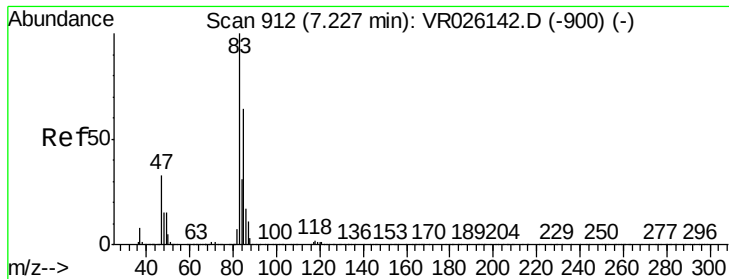


#23

Bromochloromethane
Concen: 0.323 ug/L
RT: 7.04 min Scan# 881
Delta R.T. -0.01 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Tgt Ion	Ratio	Lower	Upper
128	100		
49	149.1	146.2	271.4
130	104.1	92.5	171.7
51	66.2	55.6	83.4





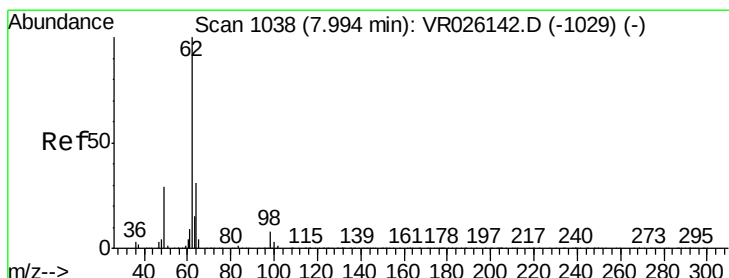
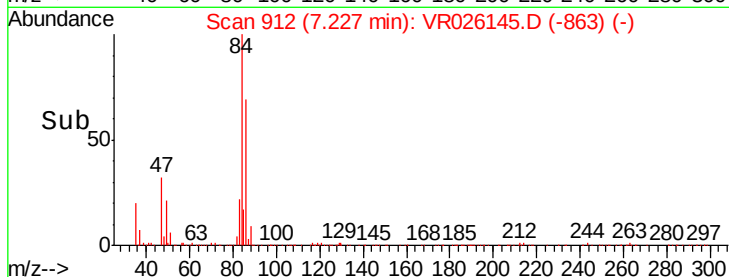
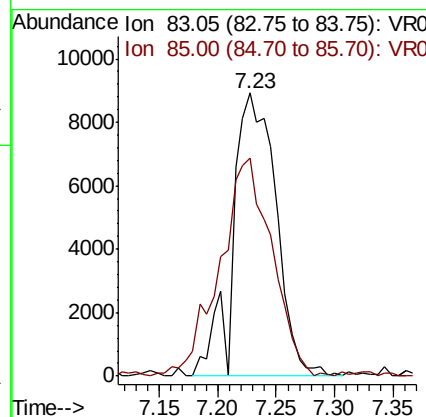
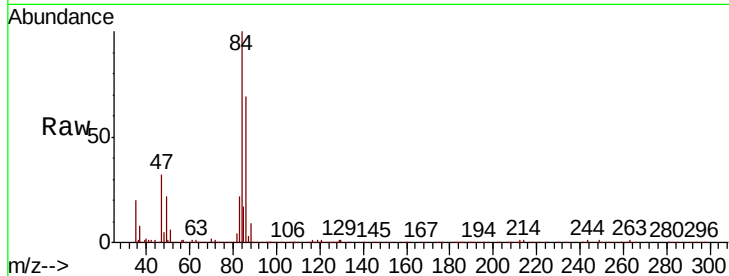
#25
Chloroform
Concen: 0.306 ug/L
RT: 7.23 min Scan# 912
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Instrument :
MSVOA_R
ClientSampleId :
MDL

Tot Ion	83	Resp	23036
Ion Ratio	100	Lower	Upper
83	100		
85	77.1	43.5	80.7

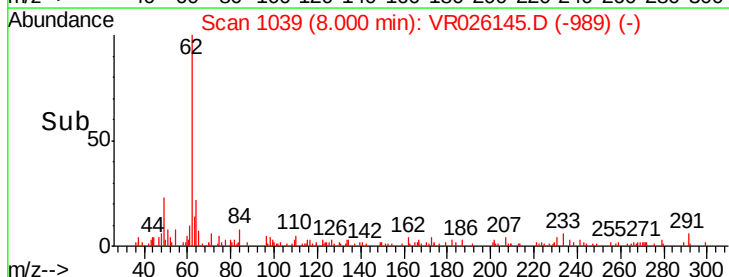
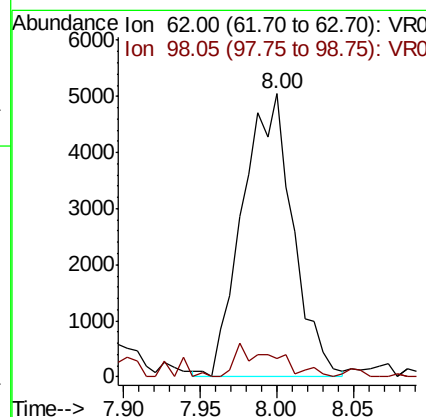
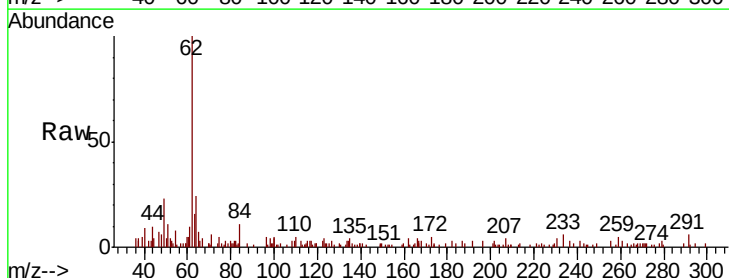
Manual Integrations
APPROVED

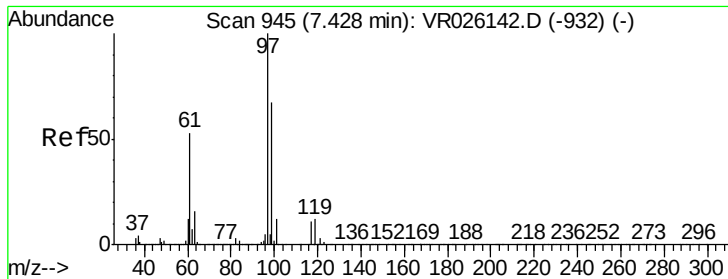
MMDadoda
10/24/2018 12:17:36 PM



#27
1,2-Dichloroethane
Concen: 0.313 ug/L
RT: 8.00 min Scan# 1039
Delta R.T. 0.01 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Tgt Ion	62	Resp	11537
Ion Ratio	100	Lower	Upper
62	100		
98	6.4	5.6	8.4





#29

1,1,1-Trichloroethane

Concen: 0.291 ug/L

RT: 7.43 min Scan# 945

Delta R.T. 0.00 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

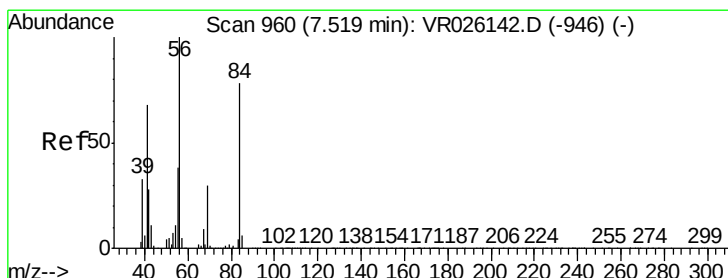
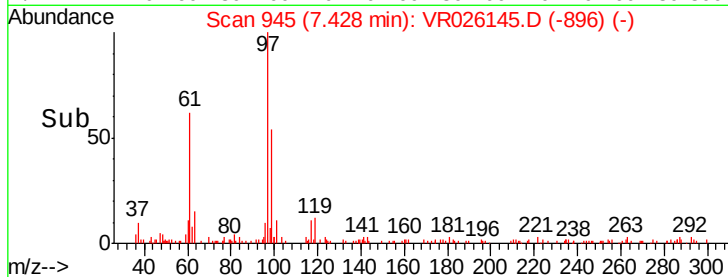
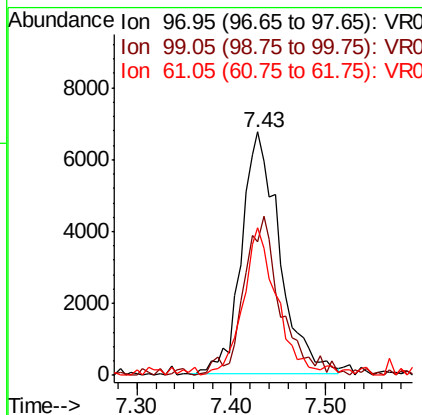
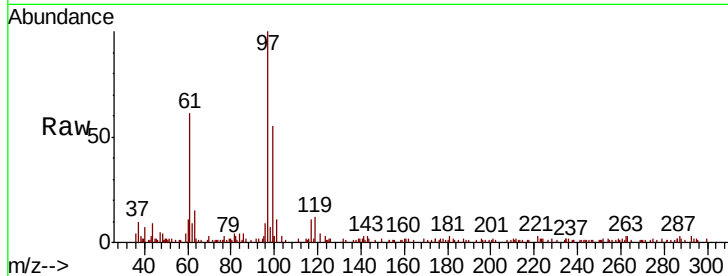
ClientSampled :

MDL

Tot Ion:	97	Resp:	18748
Ion Ratio	Lower	Upper	
97	100		
99	62.4	51.1	76.7
61	54.6	42.1	63.1

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM



#30

Cyclohexane

Concen: 0.206 ug/L

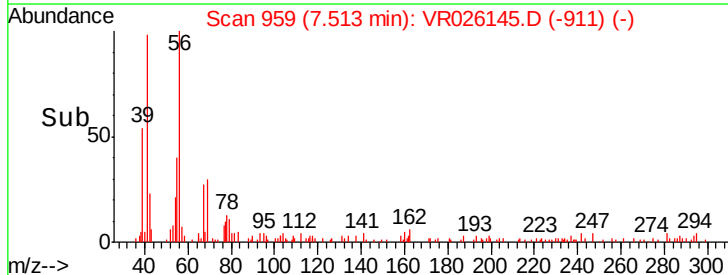
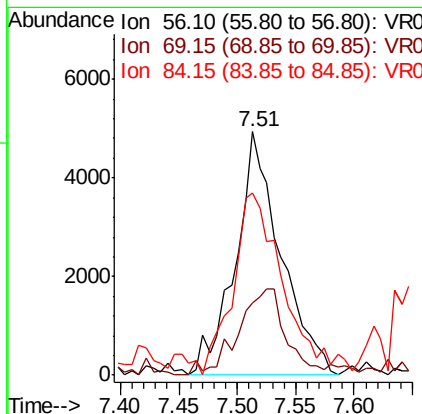
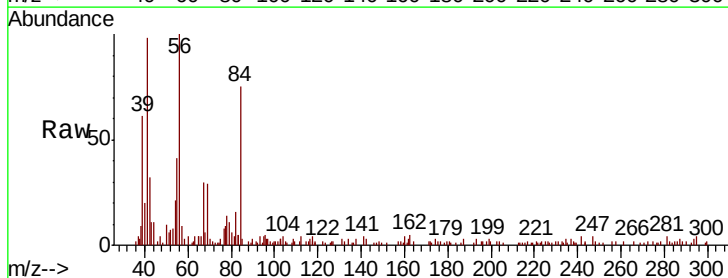
RT: 7.51 min Scan# 959

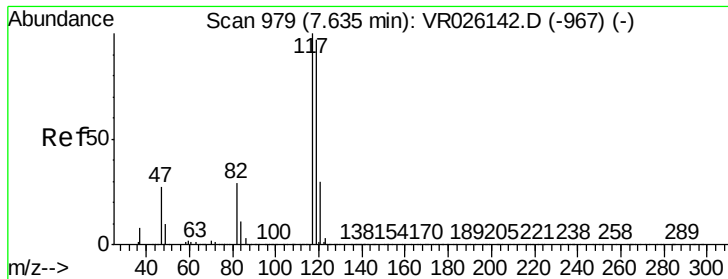
Delta R.T. -0.01 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Tgt Ion:	56	Resp:	13317
Ion Ratio	Lower	Upper	
56	100		
69	33.4	23.8	35.8
84	83.5	62.2	93.4





#31

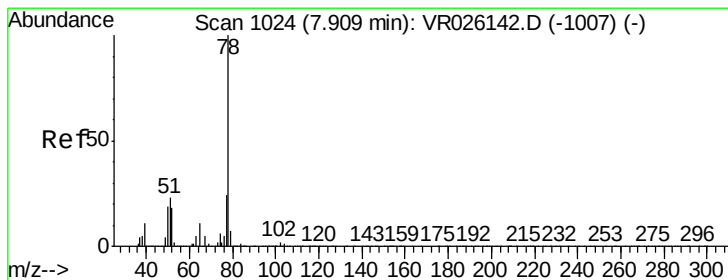
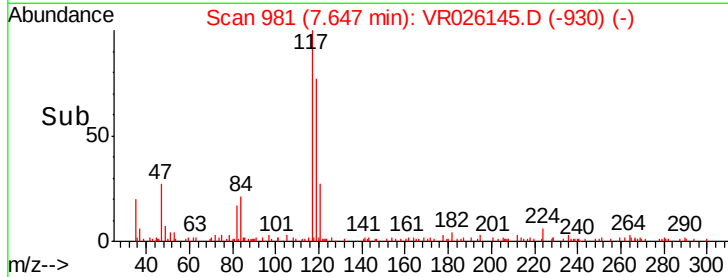
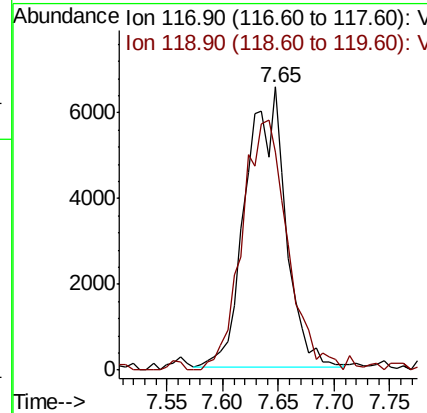
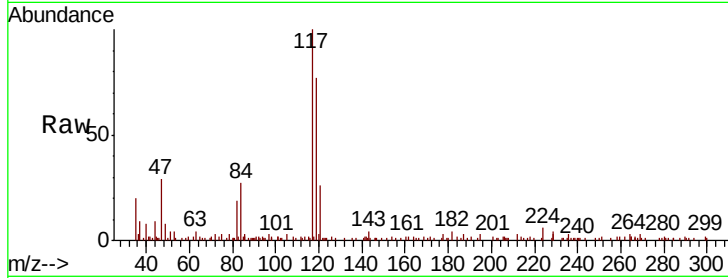
Carbon tetrachloride
Concen: 0.277 ug/L
RT: 7.65 min Scan# 981
Delta R.T. 0.01 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Instrument :
MSVOA_R
ClientSampleId :
MDL

Tot Ion	Ratio	Lower	Upper
117	100		
119	101.3	74.2	111.2

Manual Integrations
APPROVED

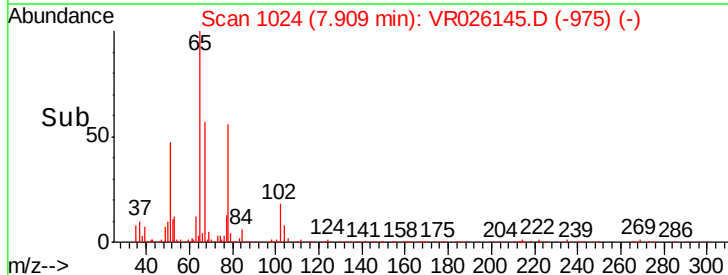
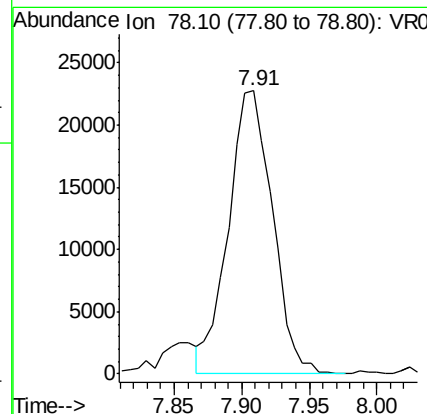
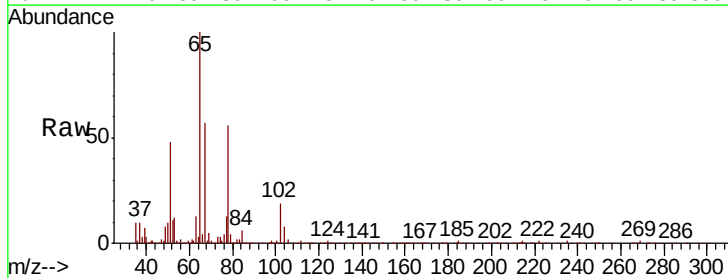
MMDadoda
10/24/2018 12:17:36 PM

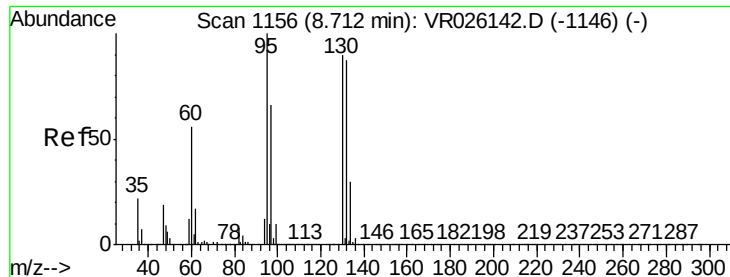


#33

Benzene
Concen: 0.292 ug/L m
RT: 7.91 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Tgt Ion: 78 Resp: 51691





#34

Trichloroethene

Concen: 0.285 ug/L

RT: 8.71 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

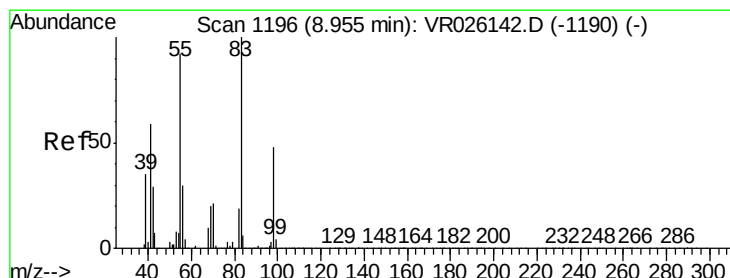
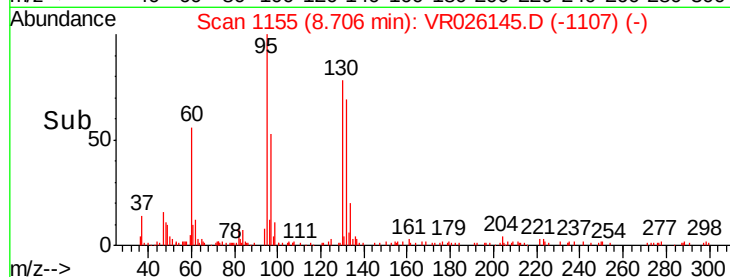
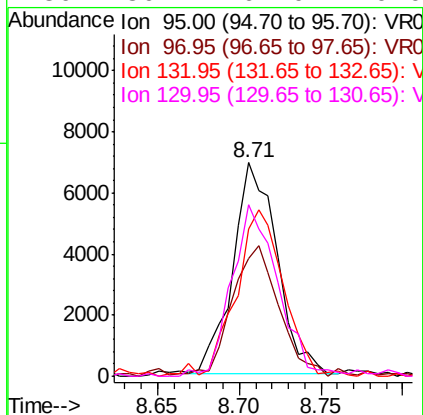
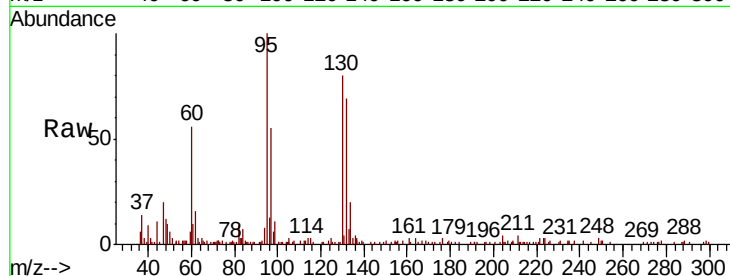
ClientSampled :

MDL

Tot Ion	95	Resp:	12932
Ion	Ratio	Lower	Upper
95	100		
97	55.1	45.7	84.9
132	68.6	58.3	108.3
130	80.4	64.0	119.0

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM



#35

Methylcyclohexane

Concen: 0.246 ug/L

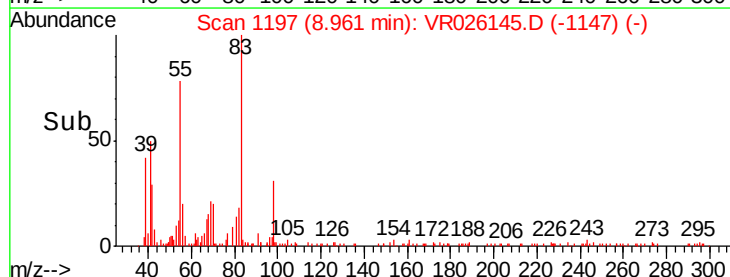
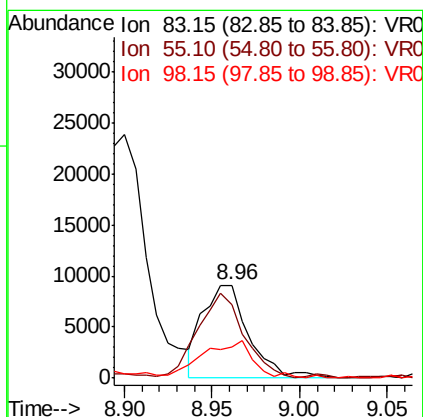
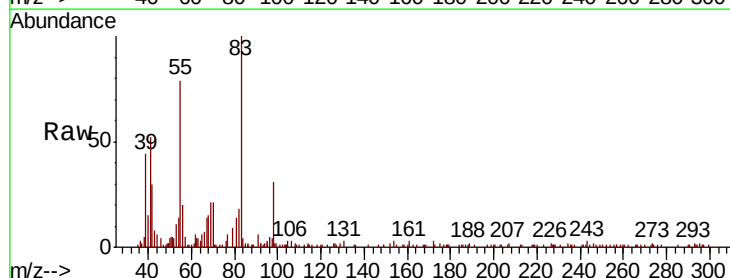
RT: 8.96 min Scan# 1197

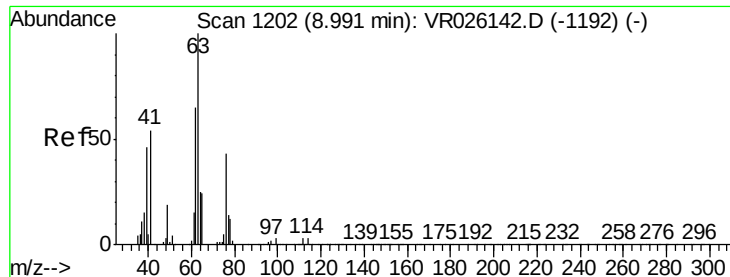
Delta R.T. 0.01 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Tgt Ion	83	Resp:	16586
Ion	Ratio	Lower	Upper
83	100		
55	91.4	66.8	100.2
98	44.3	35.2	52.8





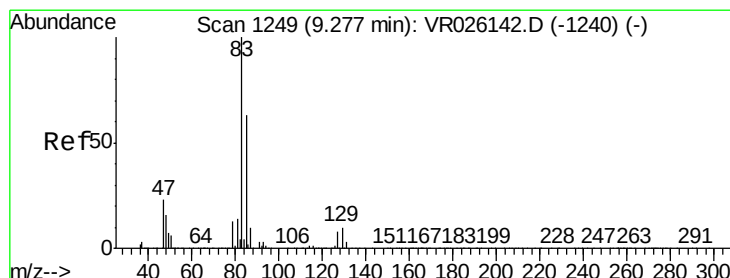
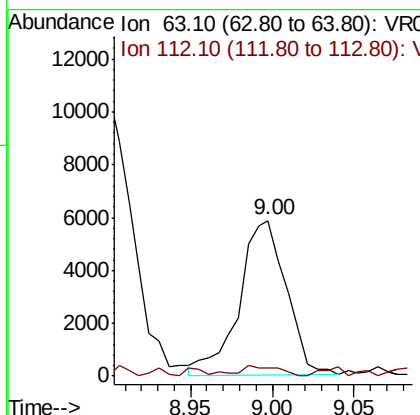
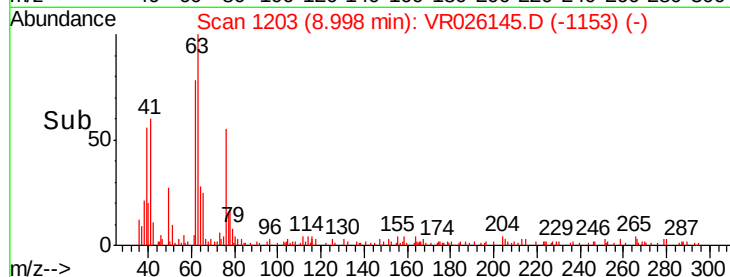
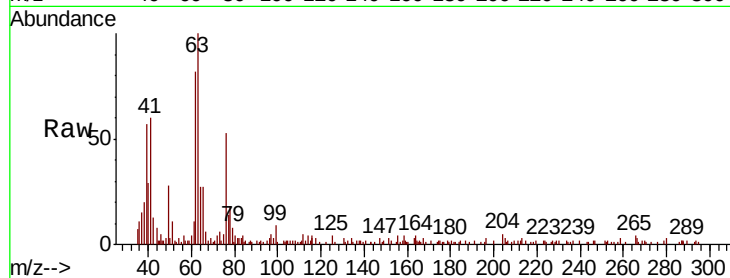
#37
 1,2-Dichloropropane
 Concen: 0.313 ug/L
 RT: 9.00 min Scan# 1203
 Delta R.T. 0.01 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion: 63 Resp: 11686
 Ion Ratio Lower Upper
 63 100
 112 4.9 2.7 4.1#

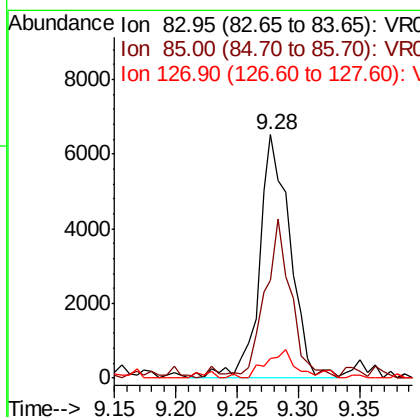
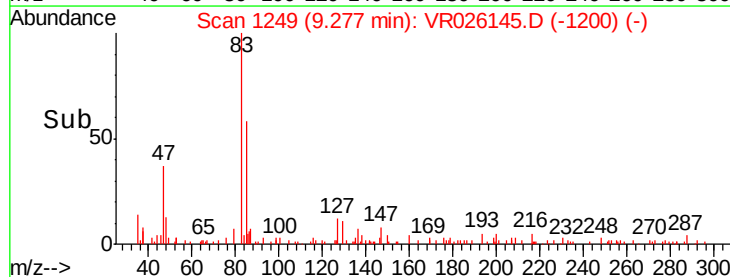
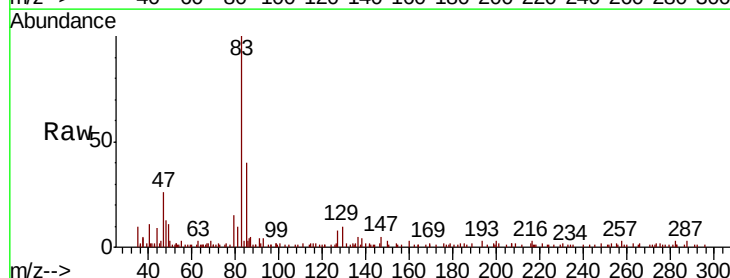
Manual Integrations
 APPROVED

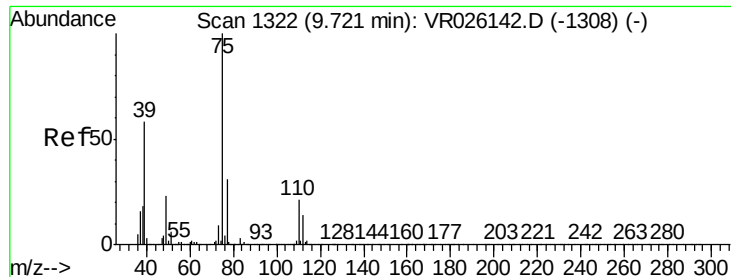
MMDadoda
 10/24/2018 12:17:36 PM



#38
 Bromodichloromethane
 Concen: 0.285 ug/L
 RT: 9.28 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Tgt Ion: 83 Resp: 11448
 Ion Ratio Lower Upper
 83 100
 85 40.2 43.5 80.7#
 127 8.1 7.0 10.6





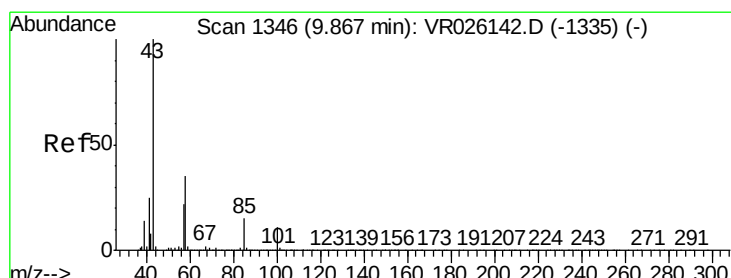
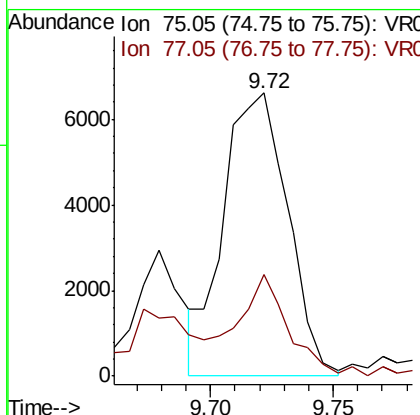
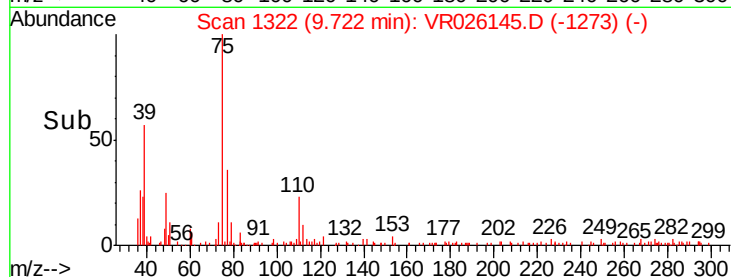
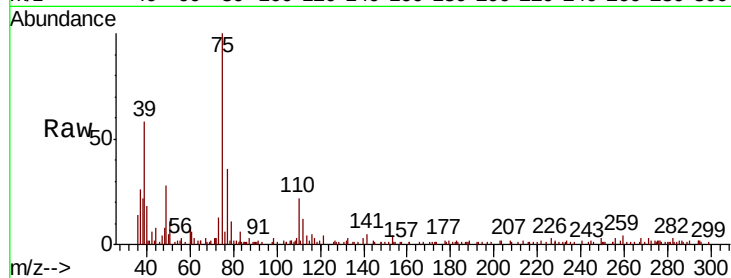
#39
 cis-1,3-Dichloropropene
 Concen: 0.283 ug/L
 RT: 9.72 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Instrument :
 MSVOA_R
 ClientSampled :
 MDL

Tot Ion	Ratio	Lower	Upper
75	100		
77	35.8	22.7	42.1

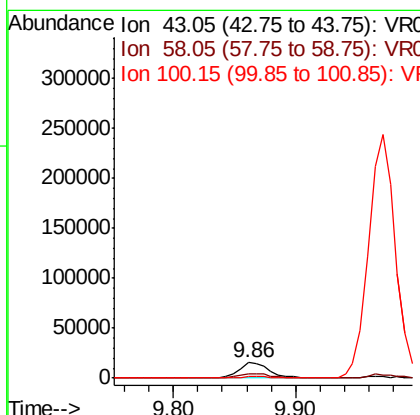
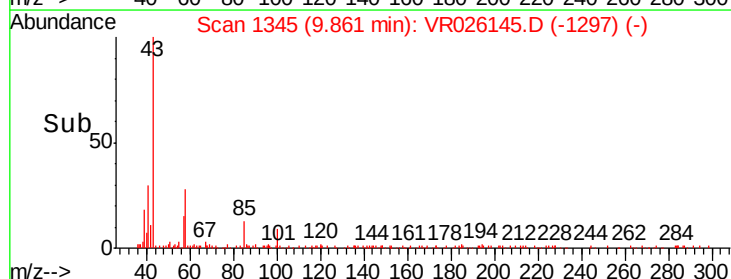
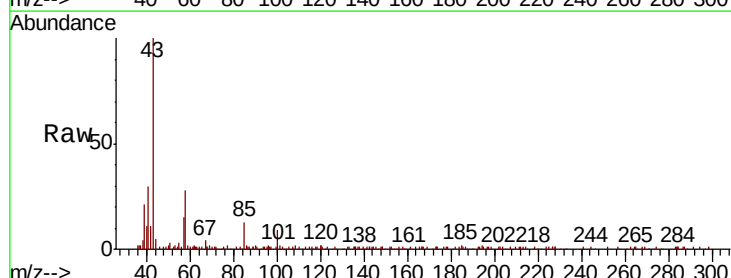
Manual Integrations
 APPROVED

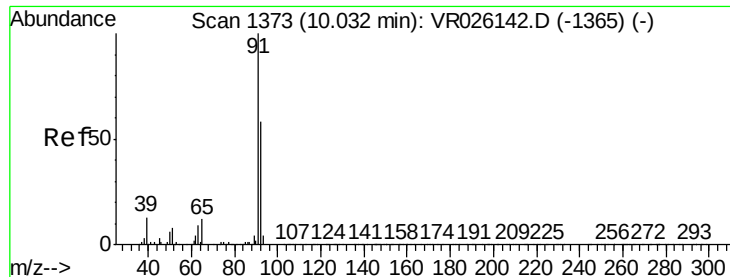
MMDadoda
 10/24/2018 12:17:36 PM



#40
 4-Methyl-2-pentanone
 Concen: 2.366 ug/L
 RT: 9.86 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.7	28.1	42.1
100	0.0	9.3	13.9#





#42

Toluene

Concen: 0.285 ug/L

RT: 10.03 min Scan# 1373

Delta R.T. 0.00 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

ClientSampled :

MDL

Tot Ion: 91 Resp: 53251

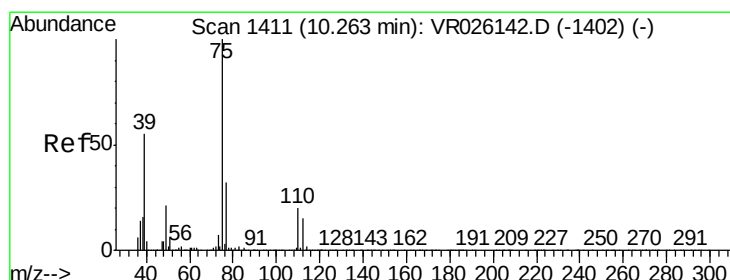
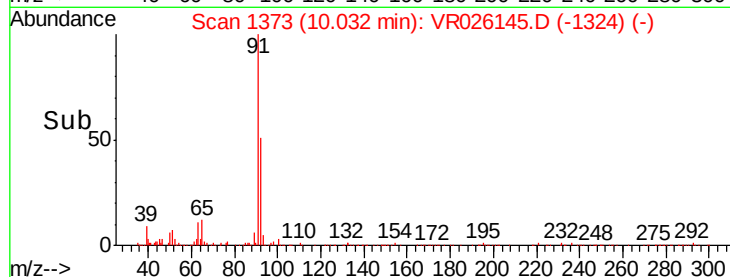
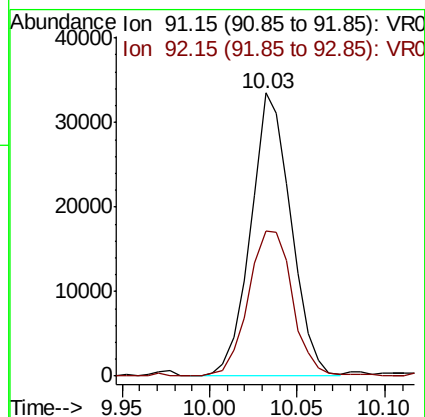
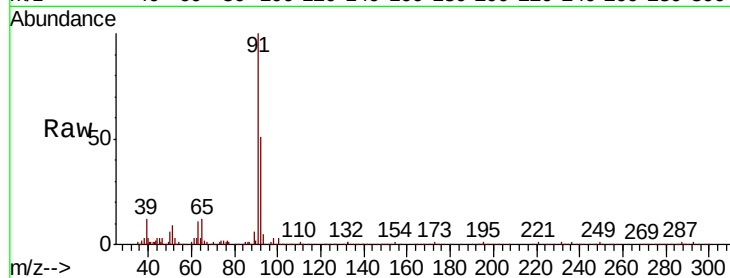
Ion Ratio Lower Upper

91 100

92 51.5 40.8 75.8

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM



#44

trans-1,3-Dichloropropene

Concen: 0.316 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. 0.00 min

Lab File: VR026145.D

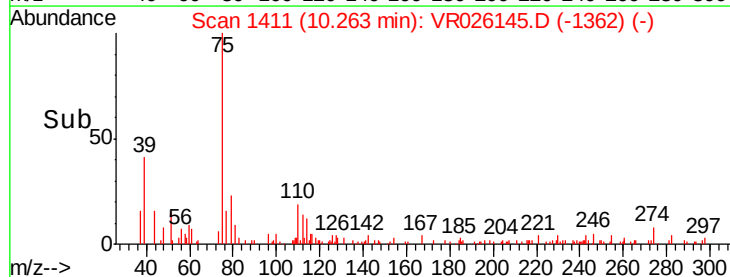
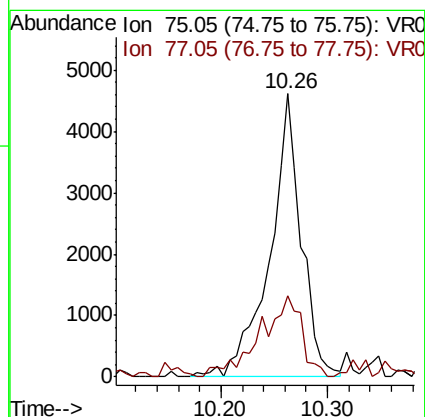
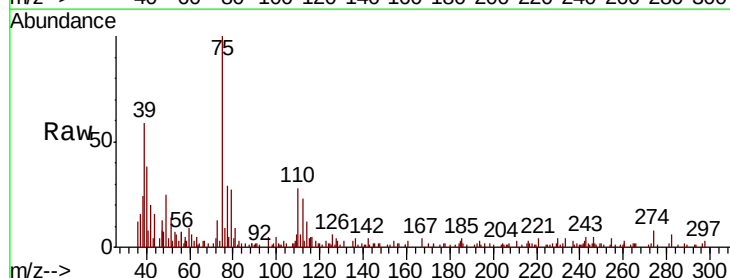
Acq: 19 Oct 2018 12:25

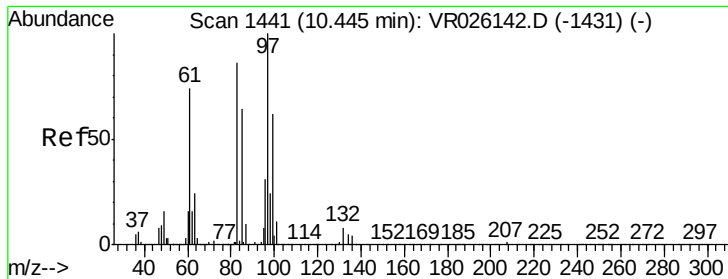
Tgt Ion: 75 Resp: 9458

Ion Ratio Lower Upper

75 100

77 28.7 24.1 44.7





#45

1,1,2-Trichloroethane

Concen: 0.354 ug/L

RT: 10.45 min Scan# 1442

Delta R.T. 0.01 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

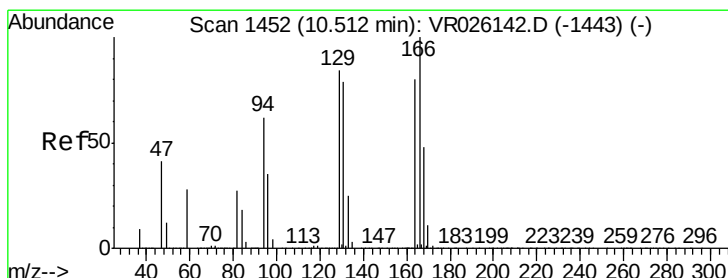
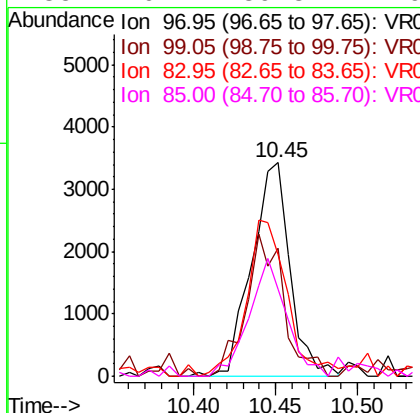
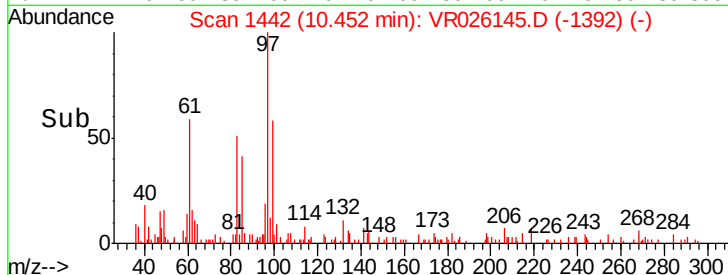
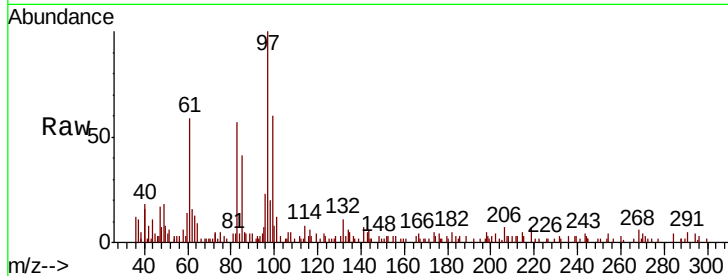
ClientSampled :

MDL

Tot Ion:	97	Resp:	5582
Ion	Ratio	Lower	Upper
97	100		
99	60.1	42.8	79.4
83	56.7	61.9	114.9#
85	40.7	39.3	72.9

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM



#47

Tetrachloroethene

Concen: 0.275 ug/L

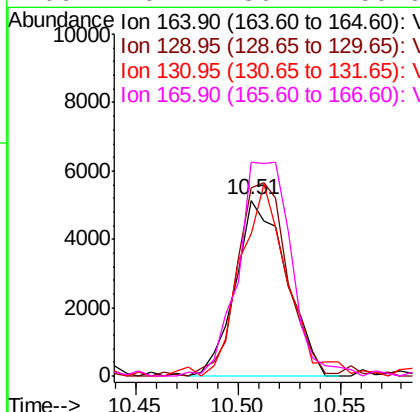
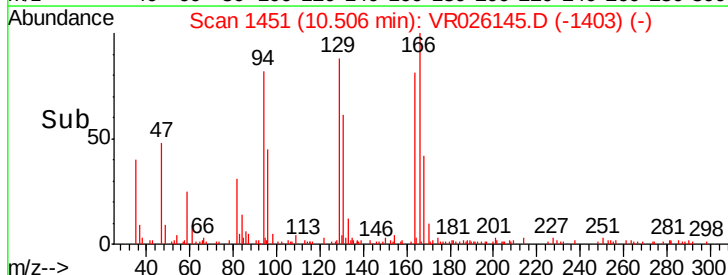
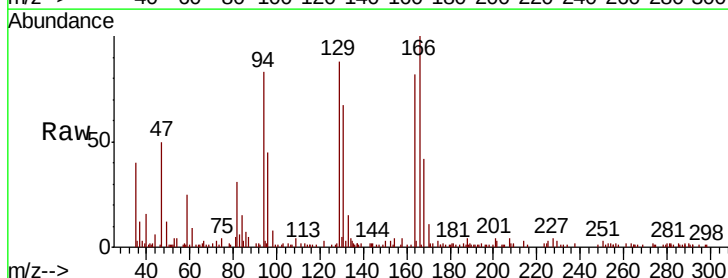
RT: 10.51 min Scan# 1451

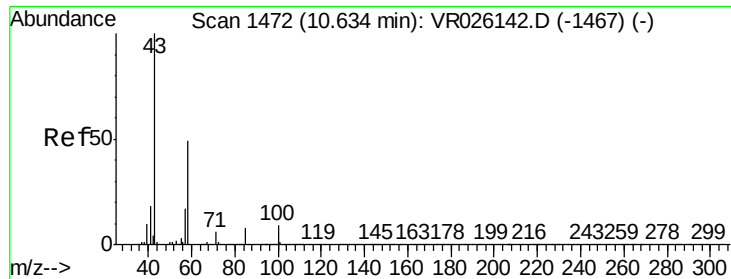
Delta R.T. -0.01 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Tgt Ion:	164	Resp:	8917
Ion	Ratio	Lower	Upper
164	100		
129	103.1	70.3	130.5
131	77.7	67.3	125.1
166	116.7	86.1	159.9





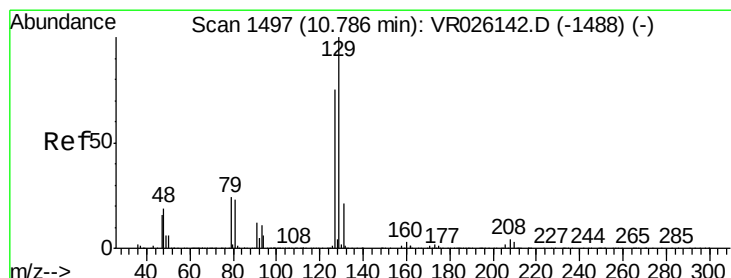
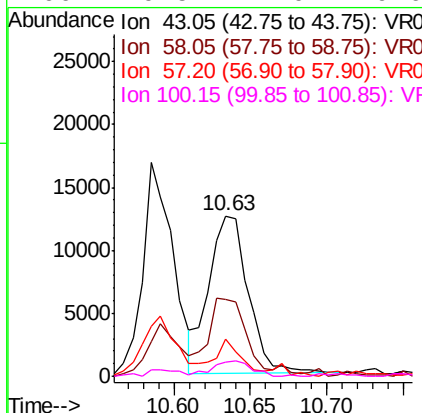
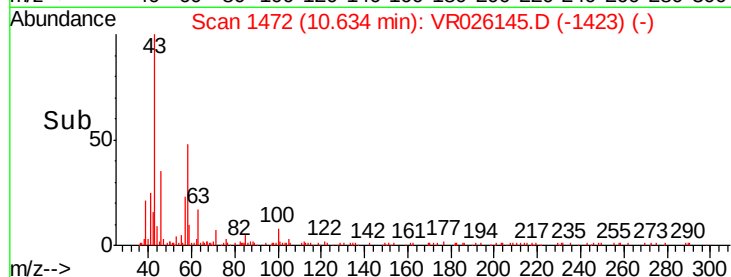
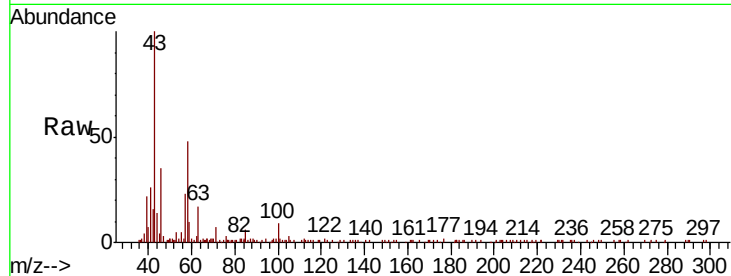
#48
2-Hexanone
Concen: 3.035 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.2	39.6	59.4
57	14.5	14.0	21.0
100	9.5	7.0	10.6

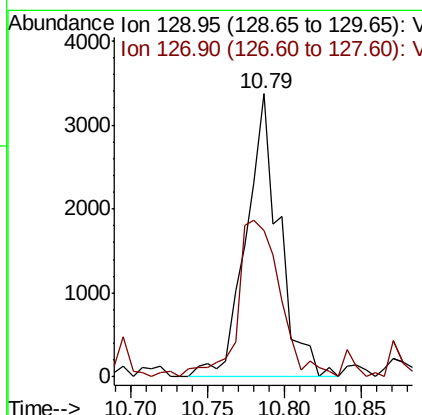
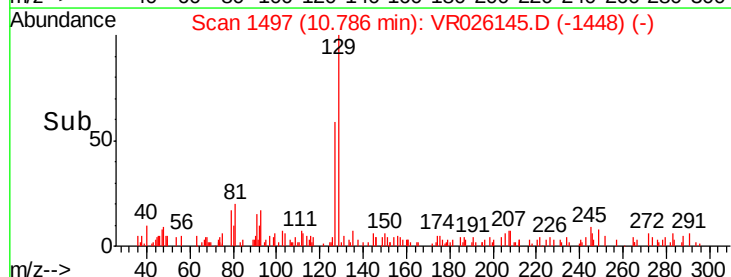
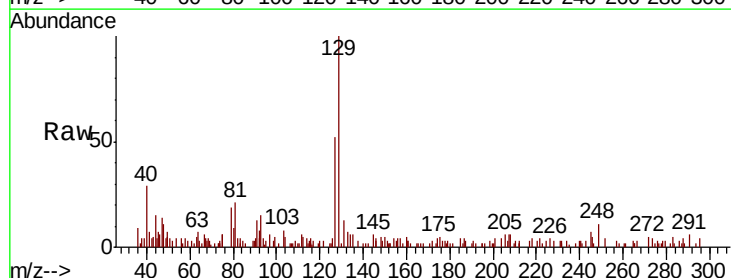
Manual Integrations
APPROVED

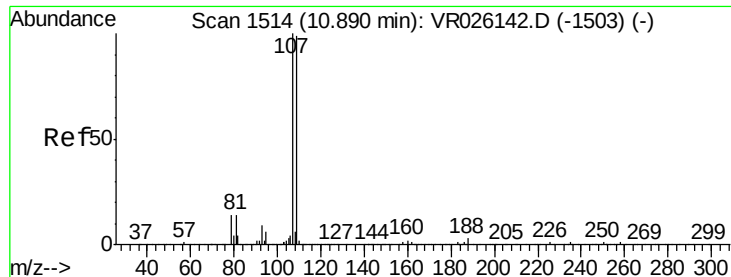
MMDadoda
10/24/2018 12:17:36 PM



#49
Dibromochloromethane
Concen: 0.286 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Tgt Ion	Ratio	Lower	Upper
129	100		
127	51.5	55.0	102.2#





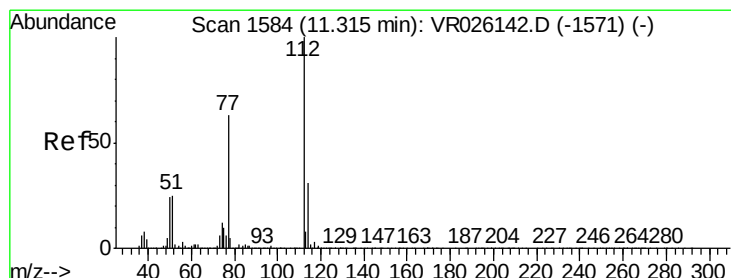
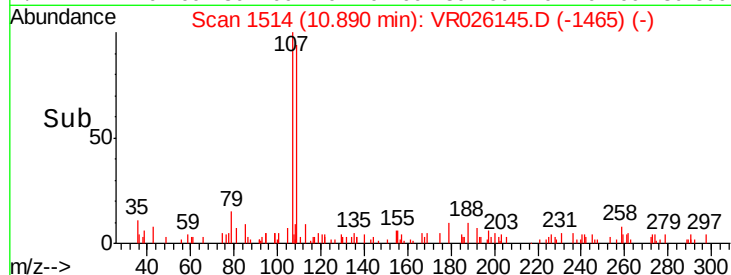
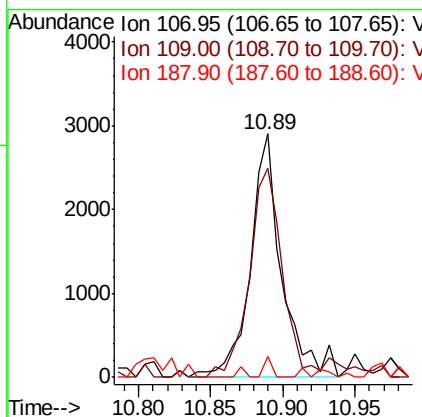
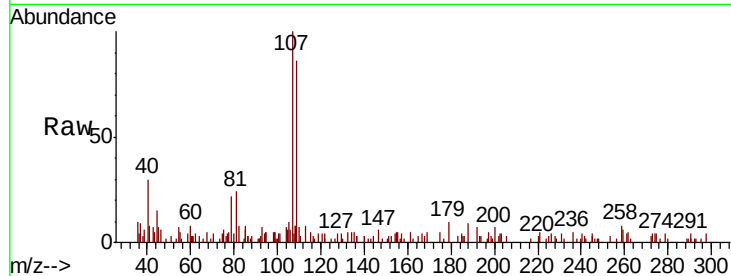
#50
1,2-Dibromoethane
Concen: 0.320 ug/L
RT: 10.89 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Instrument :
MSVOA_R
ClientSampled :
MDL

Tot Ion	Ratio	Resp	Lower	Upper
107	100	4360		
109	86.1	58.7	109.1	
188	8.7	2.9	4.3#	

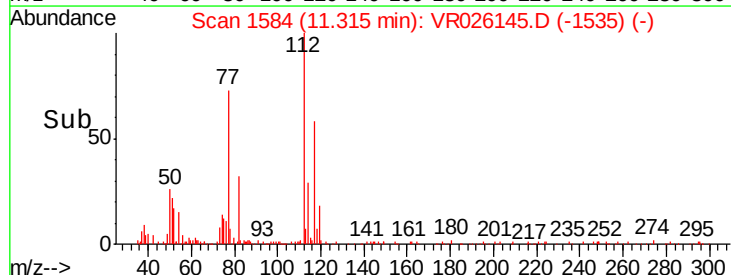
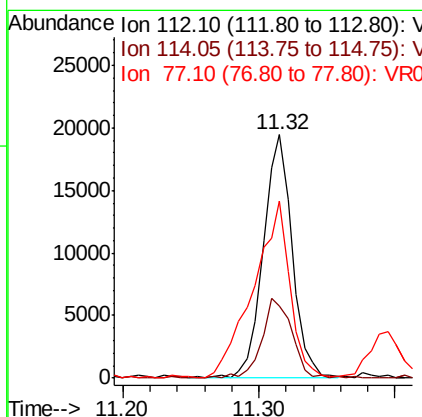
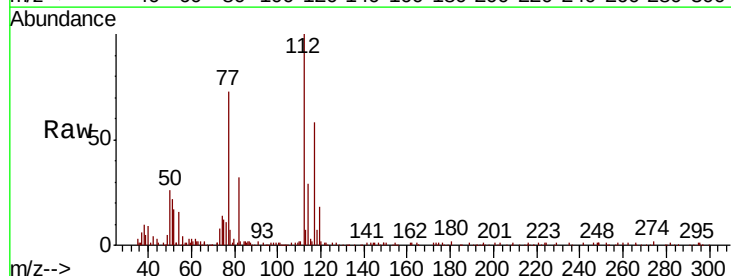
Manual Integrations
APPROVED

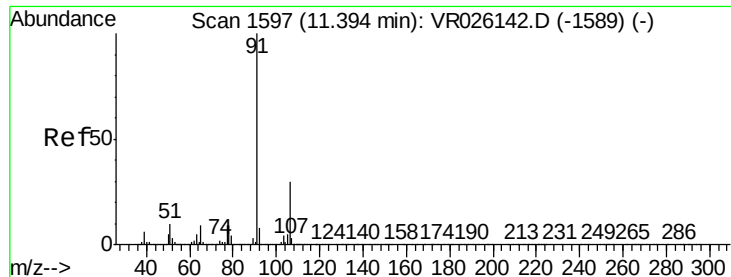
MMDadoda
10/24/2018 12:17:36 PM



#51
Chlorobenzene
Concen: 0.281 ug/L
RT: 11.32 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	29091		
114	29.5	22.8	42.4	
77	72.9	51.5	77.3	





#52

Ethylbenzene

Concen: 0.250 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

ClientSampleId :

MDL

Tot Ion: 91 Resp: 53728

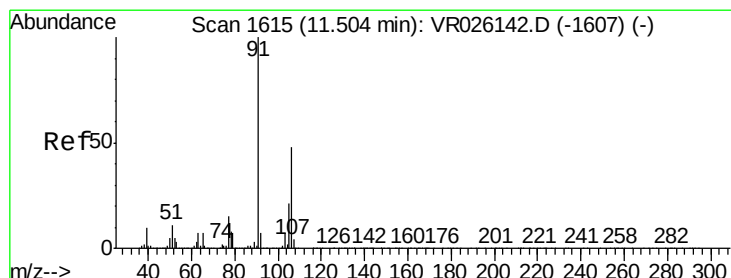
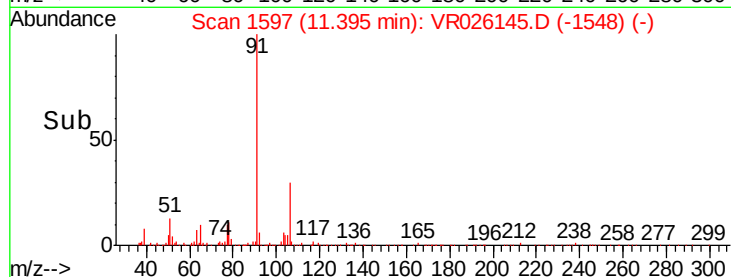
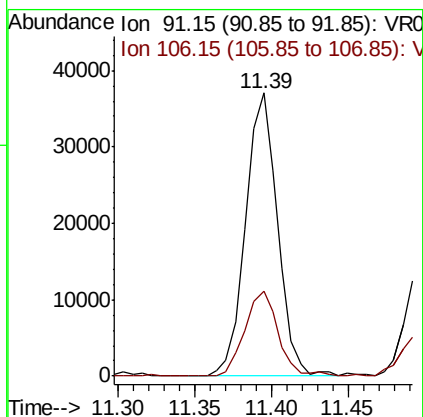
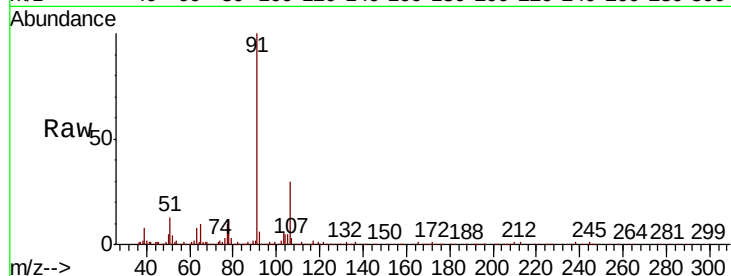
Ion Ratio Lower Upper

91 100

106 30.2 21.2 39.4

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM



#53

m,p-Xylene

Concen: 0.217 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VR026145.D

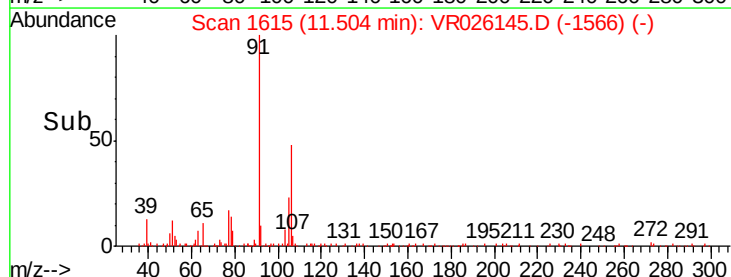
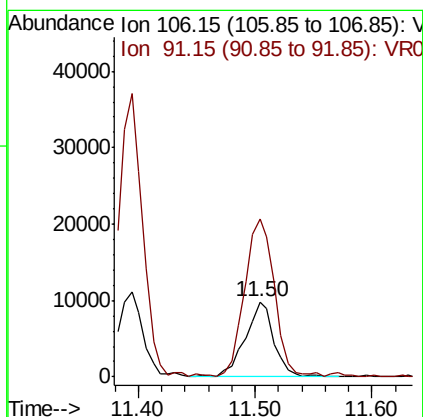
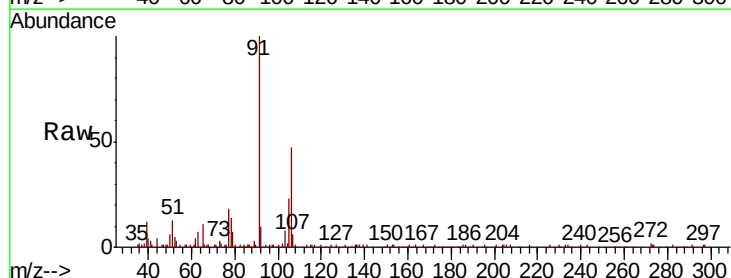
Acq: 19 Oct 2018 12:25

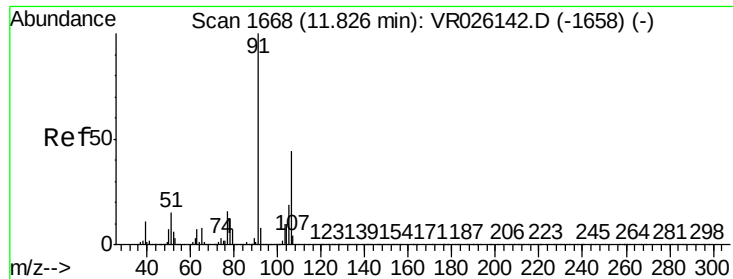
Tgt Ion: 106 Resp: 16963

Ion Ratio Lower Upper

106 100

91 210.7 145.3 269.8





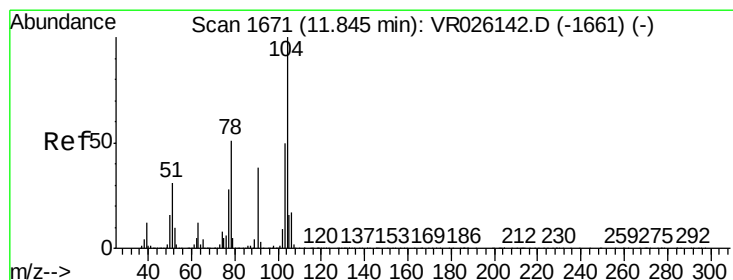
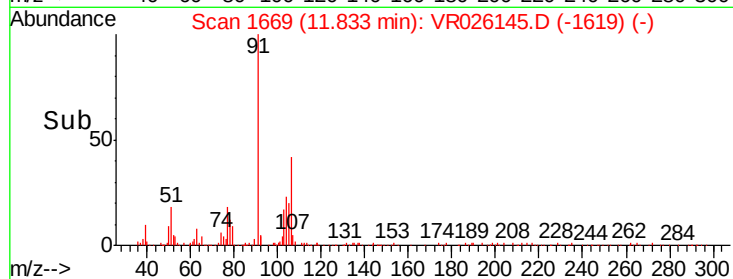
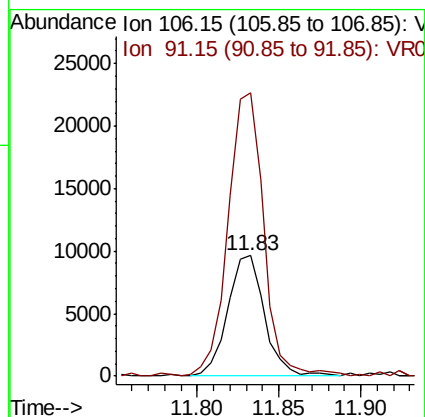
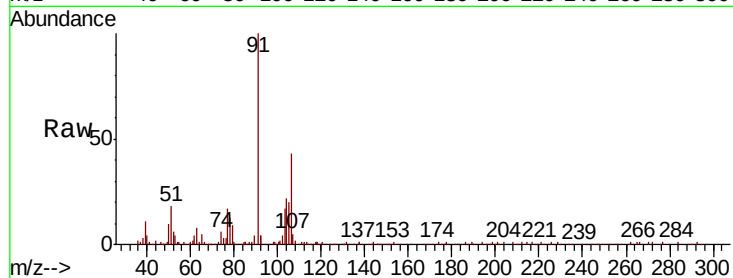
#54
o-Xylene
Concen: 0.210 ug/L
RT: 11.83 min Scan# 1669
Delta R.T. 0.01 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Instrument :
MSVOA_R
ClientSampleId :
MDL

Tot Ion	Ratio	Lower	Upper
106	100		
91	234.9	155.8	289.3

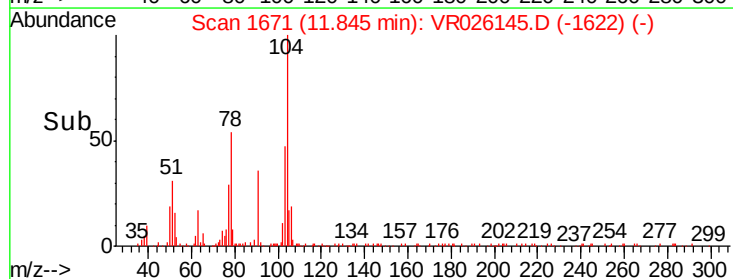
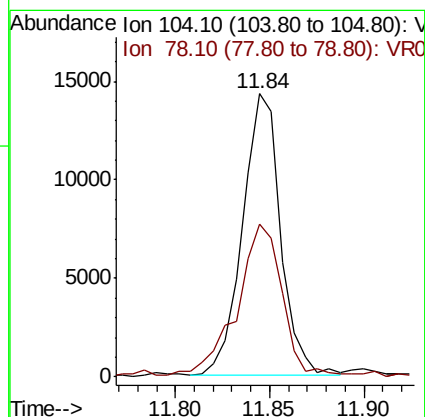
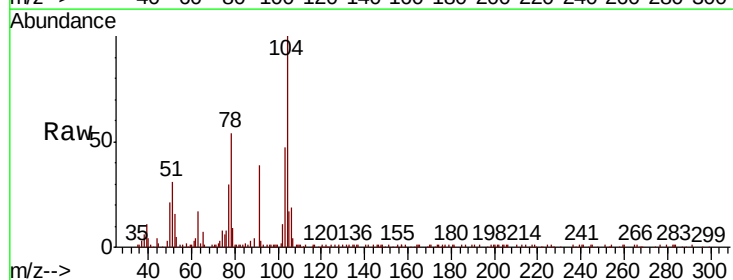
Manual Integrations
APPROVED

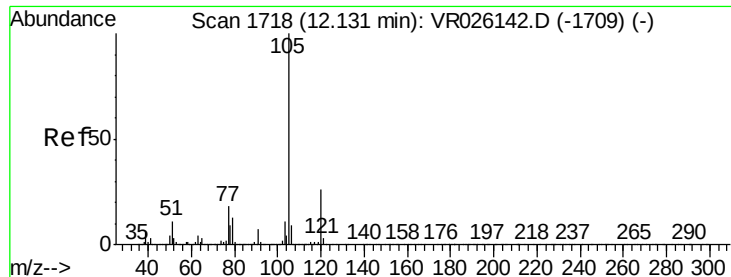
MMDadoda
10/24/2018 12:17:36 PM



#55
Styrene
Concen: 0.180 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.1	34.7	64.5





#56

Isopropylbenzene

Concen: 0.199 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

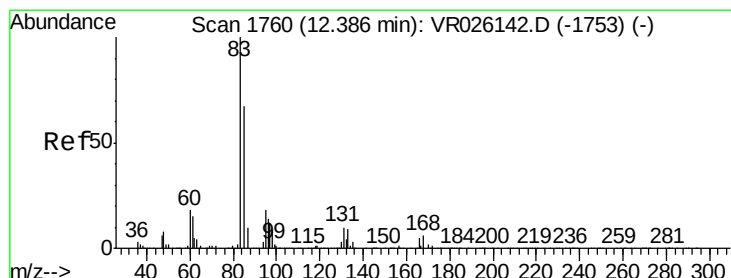
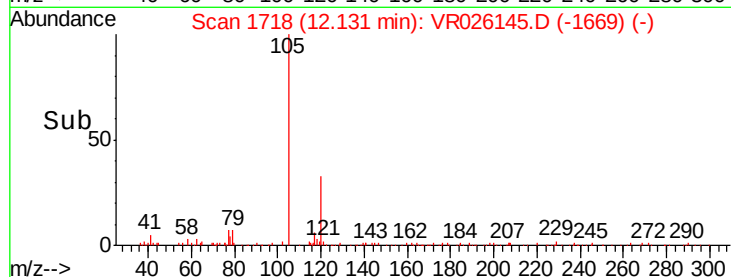
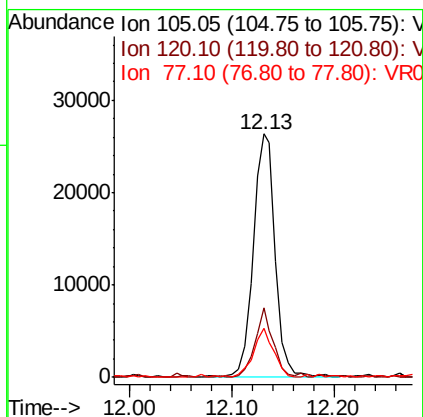
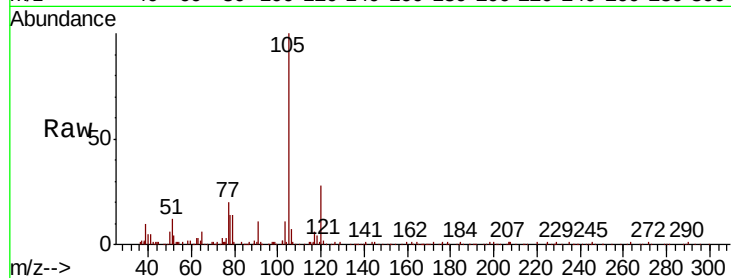
ClientSampleId :

MDL

Tot Ion:	105	Resp:	39732
Ion Ratio	Lower	Upper	
105	100		
120	23.3	21.0	31.4
77	18.6	14.6	21.8

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.335 ug/L

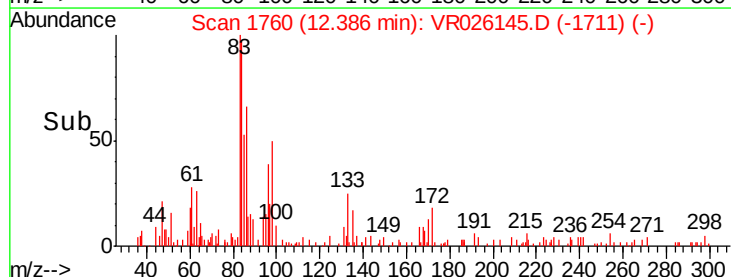
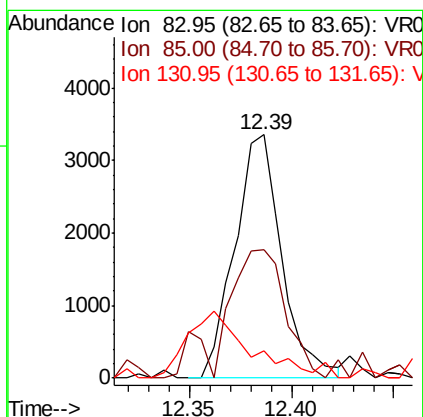
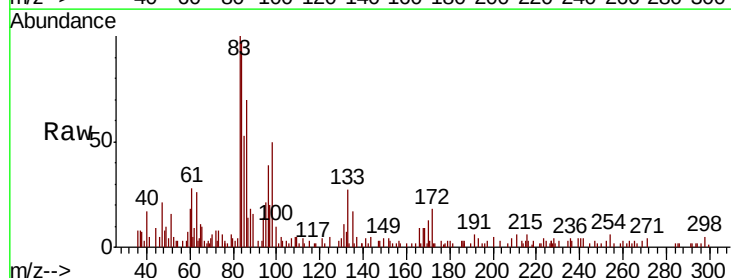
RT: 12.39 min Scan# 1760

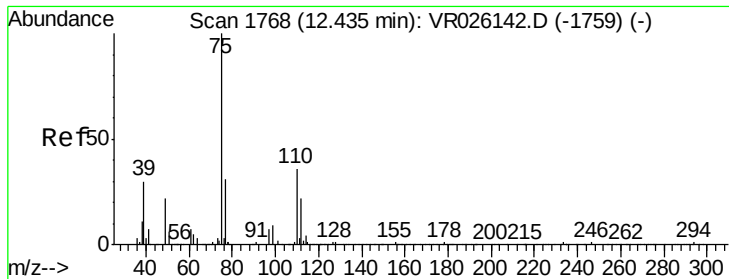
Delta R.T. 0.00 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Tgt Ion:	83	Resp:	5371
Ion Ratio	Lower	Upper	
83	100		
85	53.0	44.0	81.8
131	11.0	8.0	12.0





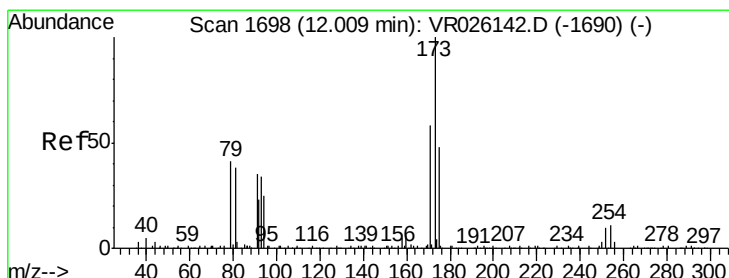
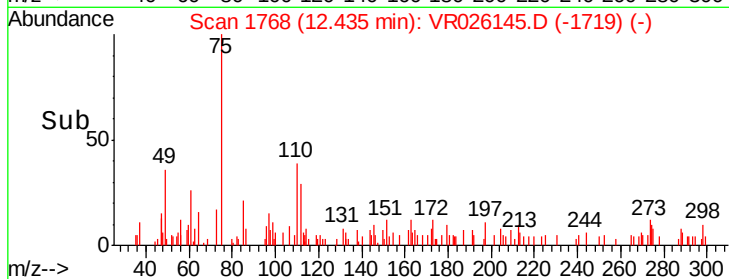
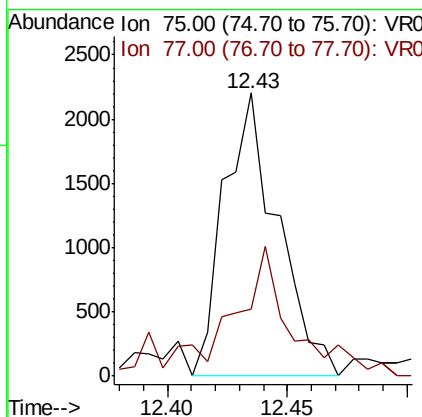
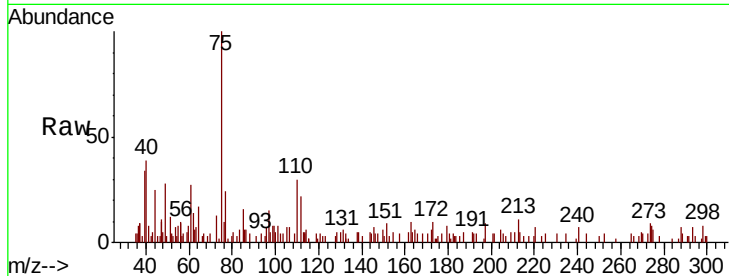
#59
 1,2,3-Trichloropropane
 Concen: 0.292 ug/L m
 RT: 12.43 min Scan# 1768
 Delta R.T. 0.00 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion: 75 Resp: 3430
 Ion Ratio Lower Upper
 75 100
 77 3.5 26.2 39.2#

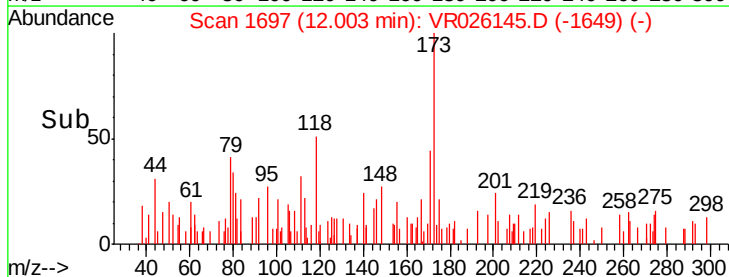
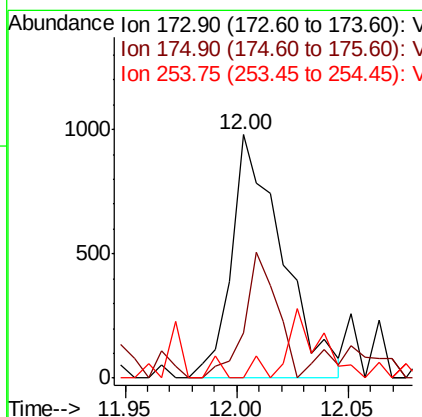
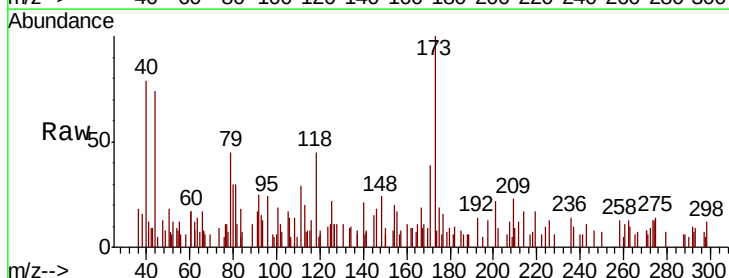
Manual Integrations
 APPROVED

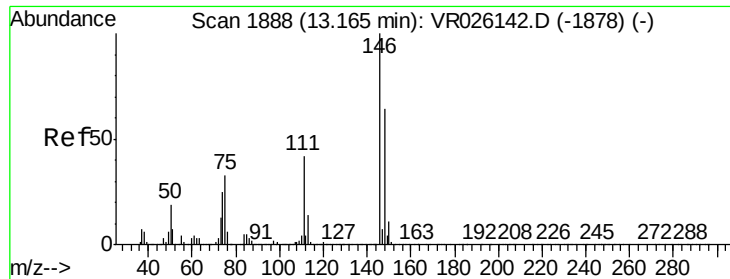
MMDadoda
 10/24/2018 12:17:36 PM



#61
 Bromoform
 Concen: 0.288 ug/L
 RT: 12.00 min Scan# 1697
 Delta R.T. -0.01 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Tgt Ion: 173 Resp: 1553
 Ion Ratio Lower Upper
 173 100
 175 34.6 39.0 58.4#
 254 2.1 8.1 12.1#





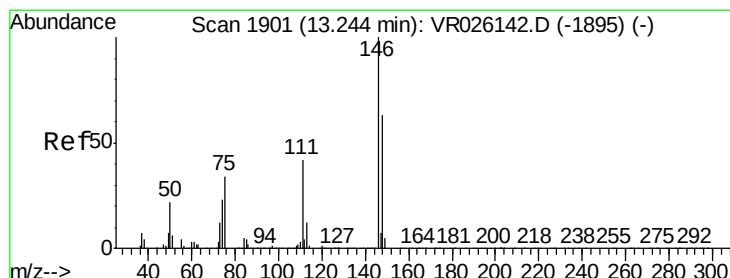
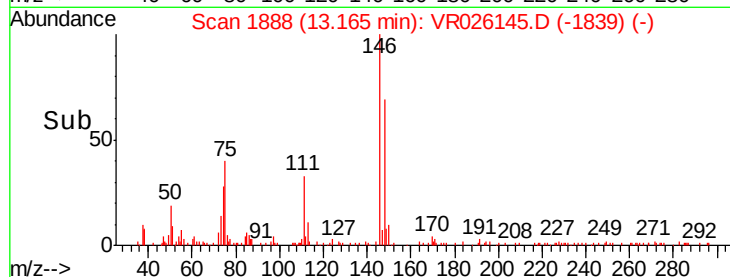
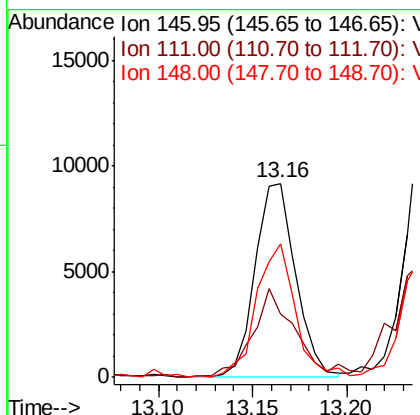
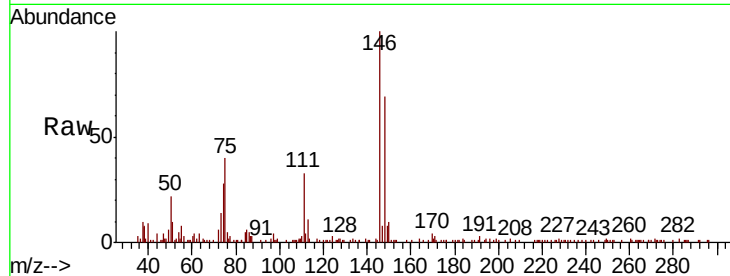
#62
 1,3-Dichlorobenzene
 Concen: 0.266 ug/L
 RT: 13.16 min Scan# 1888
 Delta R.T. 0.00 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Instrument :
 MSVOA_R
 ClientSampled :
 MDL

Tot Ion	Ratio	Lower	Upper
146	100		
111	32.6	32.1	59.7
148	69.2	43.8	81.3

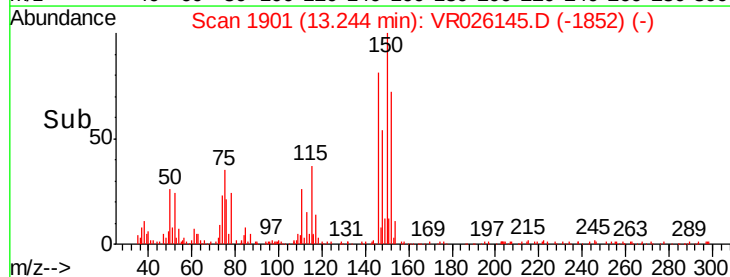
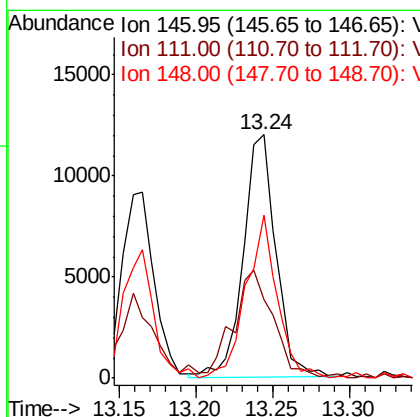
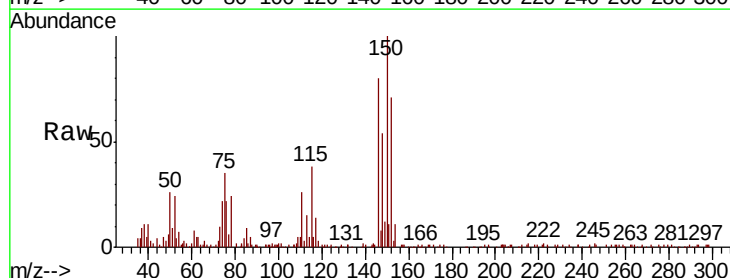
Manual Integrations
 APPROVED

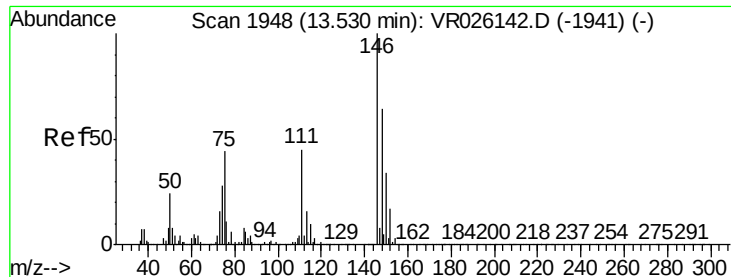
MMDadoda
 10/24/2018 12:17:36 PM



#63
 1,4-Dichlorobenzene
 Concen: 0.333 ug/L
 RT: 13.24 min Scan# 1901
 Delta R.T. 0.00 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	32.0	32.6	60.6#
148	67.2	46.7	86.7





#65

1,2-Dichlorobenzene

Concen: 0.308 ug/L

RT: 13.53 min Scan# 1948

Delta R.T. 0.00 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Instrument :

MSVOA_R

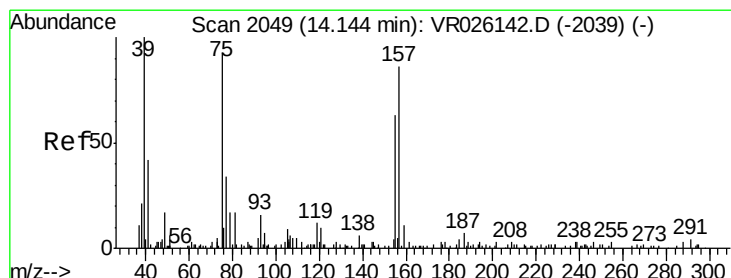
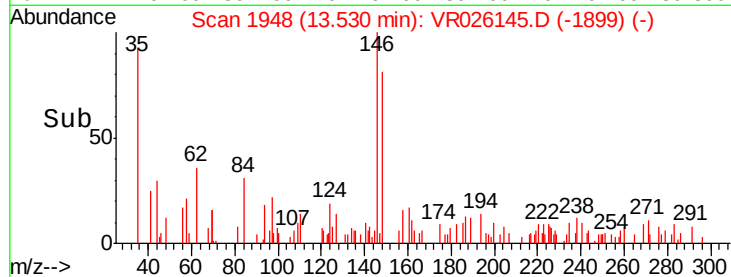
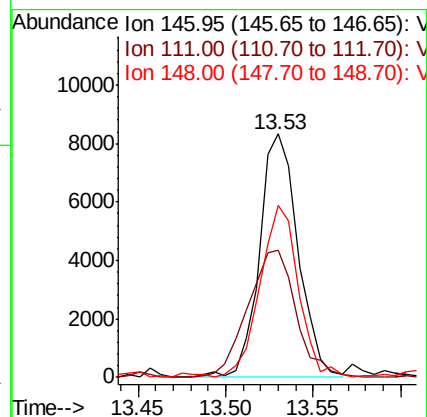
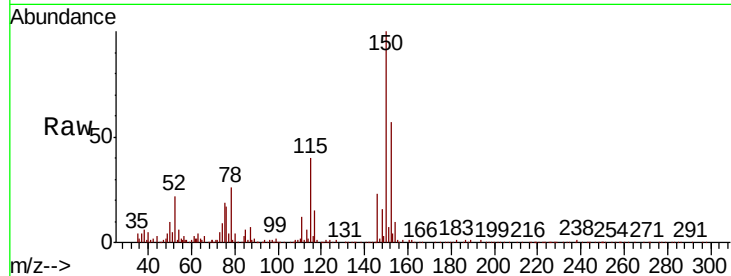
ClientSampled :

MDL

Tot Ion:	146	Resp:	12724
Ion Ratio	Lower	Upper	
146	100		
111	52.0	35.2	52.8
148	70.7	51.2	76.8

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM



#66

1,2-Dibromo-3-chloropropane

Concen: 0.247 ug/L m

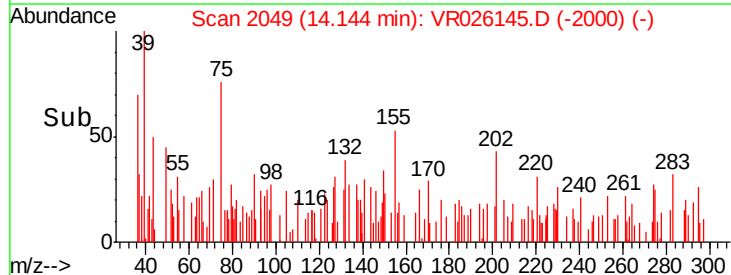
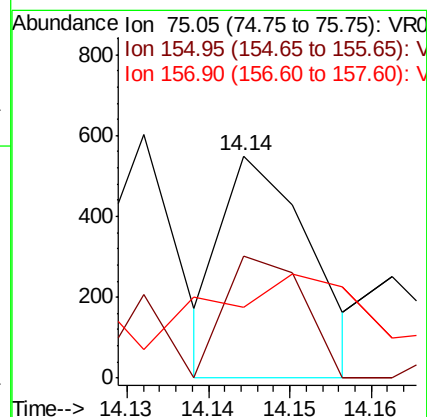
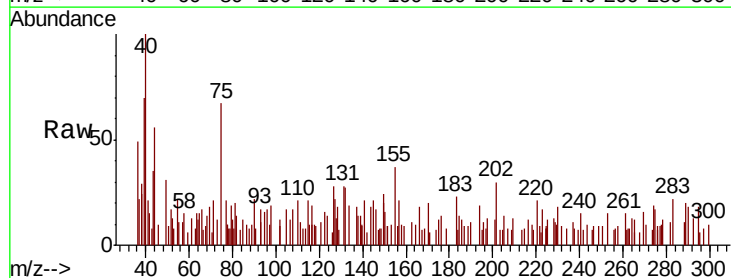
RT: 14.14 min Scan# 2049

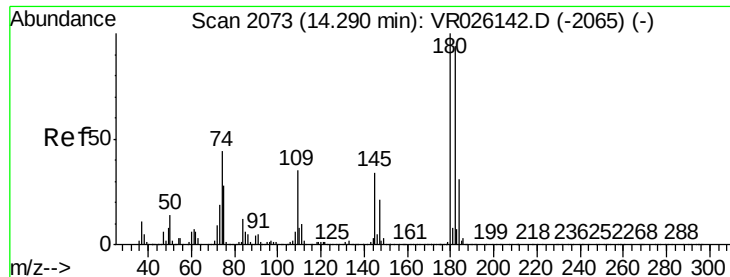
Delta R.T. 0.00 min

Lab File: VR026145.D

Acq: 19 Oct 2018 12:25

Tgt Ion:	75	Resp:	416
Ion Ratio	Lower	Upper	
75	100		
155	55.0	40.9	61.3
157	31.7	67.3	100.9#





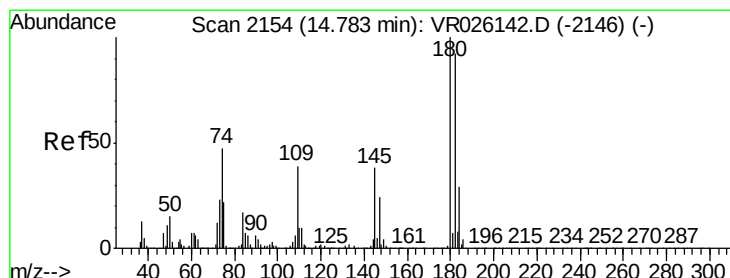
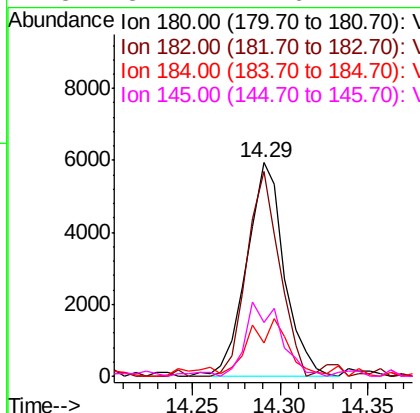
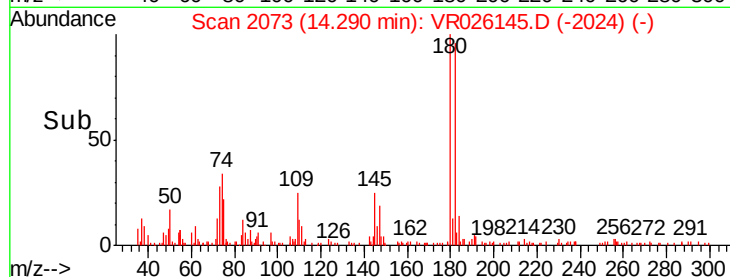
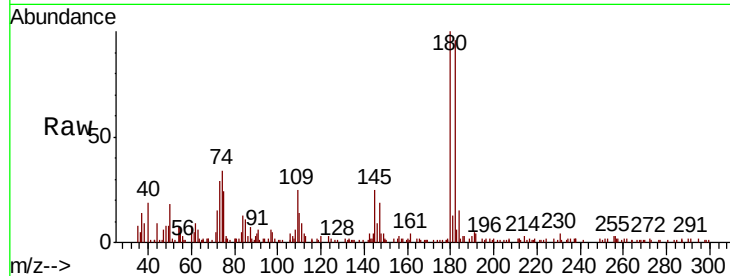
#67
 1,3,5-Trichlorobenzene
 Concen: 0.282 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. 0.00 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL

Tot Ion:	180	Resp:	8854
Ion Ratio	Lower	Upper	
180	100		
182	83.5	77.5	116.3
184	27.3	25.0	37.4
145	32.2	27.6	41.4

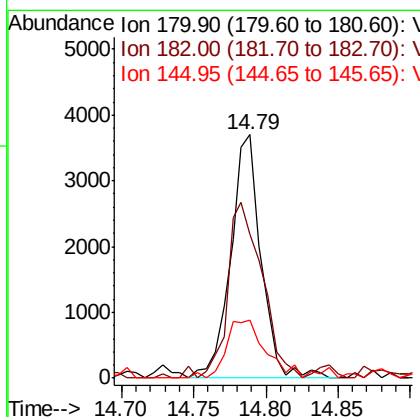
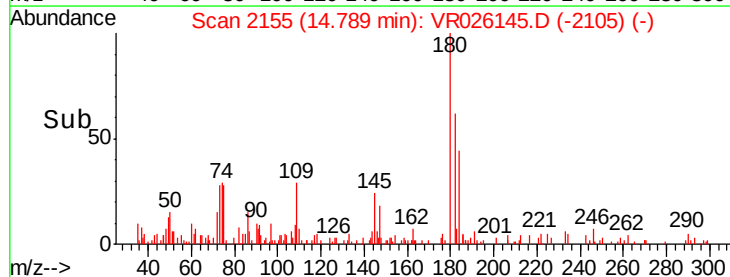
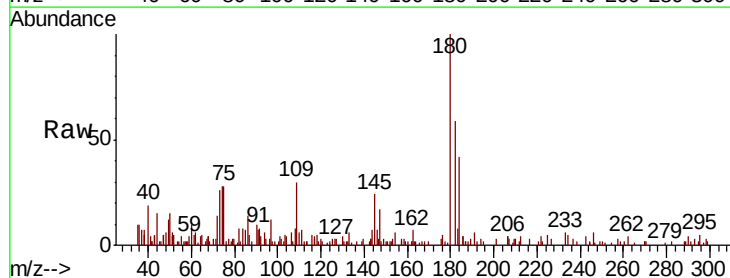
Manual Integrations
 APPROVED

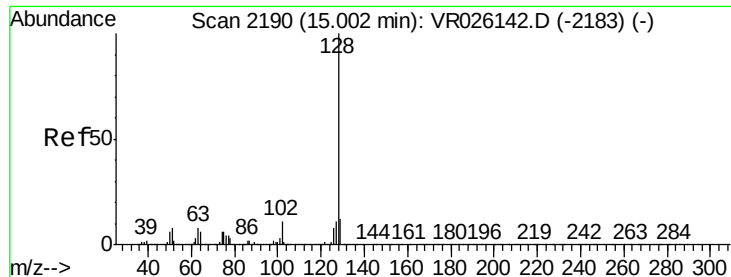
MMDadoda
 10/24/2018 12:17:36 PM



#68
 1,2,4-trichlorobenzene
 Concen: 0.298 ug/L
 RT: 14.79 min Scan# 2155
 Delta R.T. 0.01 min
 Lab File: VR026145.D
 Acq: 19 Oct 2018 12:25

Tgt Ion:	180	Resp:	5460
Ion Ratio	Lower	Upper	
180	100		
182	83.1	76.1	114.1
145	30.7	28.2	42.4





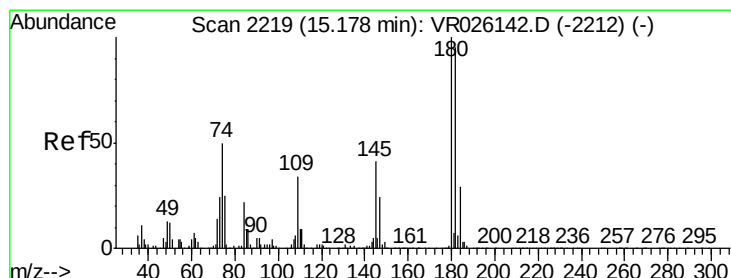
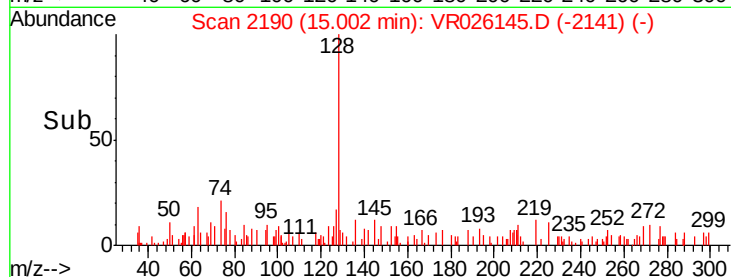
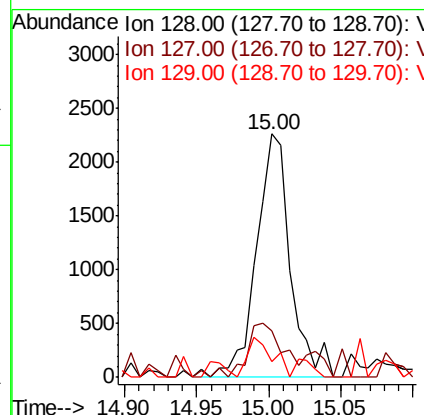
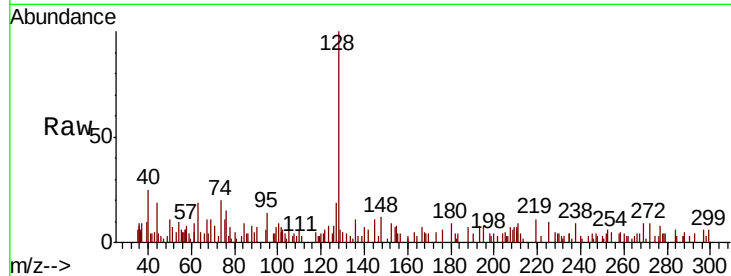
#69
Naphthalene
Concen: 0.207 ug/L
RT: 15.00 min Scan# 2190
Delta R.T. 0.00 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Instrument :
MSVOA_R
ClientSampleId :
MDL

Tot Ion	Ratio	Lower	Upper
128	100		
127	23.2	11.0	16.6#
129	11.7	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:36 PM



#70
1,2,3-Trichlorobenzene
Concen: 0.316 ug/L
RT: 15.18 min Scan# 2220
Delta R.T. 0.01 min
Lab File: VR026145.D
Acq: 19 Oct 2018 12:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	84.1	75.7	113.5
145	36.1	28.8	43.2

