

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR091319\
 Data File : VR026635.D
 Acq On : 13 Sep 2019 16:48
 Operator : SY/MD
 Sample : MDL01
 Misc : 25mL/MSVOA_R/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 12:45:00 AM

Quant Time: Sep 14 07:05:21 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091219WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Sat Sep 14 06:49:16 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.48	114	339924	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.30	117	265963	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.24	152	113881	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.18	65	39963	4.28	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.60%
7) Chloroethane-d5	2.63	69	37253	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.20%
11) 1,1-Dichloroethene-d2	3.63	63	77255	2.99	ug/L	-0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.80%#
20) 2-Butanone-d5	6.61	46	97260	48.01	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.02%
24) Chloroform-d	7.22	84	167731	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
26) 1,2-Dichloroethane-d4	7.91	65	57537	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
32) Benzene-d6	7.88	84	308267	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	8.92	67	86162	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.20%
41) Toluene-d8	9.98	98	227887	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
43) trans-1,3-Dichloropropene-	10.25	79	17870	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
46) 2-Hexanone-d5	10.60	63	59926	49.72	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.44%
57) 1,1,2,2-Tetrachloroethane-	12.37	84	44644	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	13.53	152	72644	5.03	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	11091	0.289 ug/L	98
3) Chloromethane	2.07	50	5923m	0.295 ug/L	
5) Vinyl chloride	2.18	62	6521	0.324 ug/L	93
6) Bromomethane	2.52	94	3967	0.314 ug/L	85
8) Chloroethane	2.67	64	3881	0.335 ug/L	84
9) Trichlorofluoromethane	2.96	101	12469m	0.359 ug/L	
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	5087m	0.334 ug/L	
12) 1,1-Dichloroethene	3.66	96	5227m	0.349 ug/L	
13) Acetone	3.73	43	6267	4.114 ug/L	93
14) Carbon disulfide	3.97	76	14213	0.221 ug/L	99
15) Methyl Acetate	4.22	43	2181m	0.341 ug/L	
16) Methylene chloride	4.43	84	12821	0.411 ug/L	93
17) Methyl tert-butyl Ether	4.93	73	8549	0.264 ug/L #	87
18) trans-1,2-Dichloroethene	4.92	96	8767	0.280 ug/L #	59
19) 1,1-Dichloroethane	5.71	63	15307	0.261 ug/L #	89
21) 2-Butanone	6.72	43	9401	3.378 ug/L	81
22) cis-1,2-Dichloroethene	6.70	96	7942	0.264 ug/L #	87

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091219WMA.M

Quant Title : TRACE VOA SOM01.0

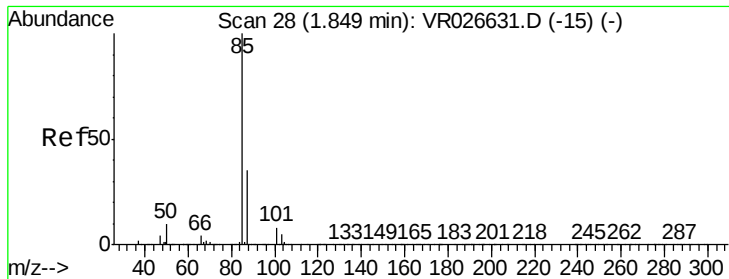
QLast Update : Sat Sep 14 06:49:16 2019

Response via : Initial Calibration

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

23) Bromochloromethane	7.07	128	3006	0.360	ug/L #	75
25) Chloroform	7.25	83	20994	0.373	ug/L	84
27) 1,2-Dichloroethane	8.01	62	5512	0.278	ug/L #	71
29) 1,1,1-Trichloroethane	7.45	97	11117	0.260	ug/L #	91
30) Cyclohexane	7.54	56	9079	0.199	ug/L	95
31) Carbon tetrachloride	7.67	117	10032	0.277	ug/L	96
33) Benzene	7.93	78	35554m	0.301	ug/L	
34) Trichloroethene	8.74	95	8797	0.299	ug/L	94
35) Methylcyclohexane	8.97	83	10108	0.229	ug/L	89
37) 1,2-Dichloropropane	9.01	63	7252	0.305	ug/L #	89
38) Bromodichloromethane	9.30	83	6936	0.274	ug/L #	96
39) cis-1,3-Dichloropropene	9.73	75	5375m	0.213	ug/L	
40) 4-Methyl-2-pentanone	9.89	43	12457	2.088	ug/L #	91
42) Toluene	10.05	91	29911	0.290	ug/L	89
44) trans-1,3-Dichloropropene	10.28	75	5314	0.328	ug/L #	59
45) 1,1,2-Trichloroethane	10.46	97	3355	0.331	ug/L #	77
47) Tetrachloroethene	10.52	164	5194	0.299	ug/L	90
48) 2-Hexanone	10.65	43	11435	3.016	ug/L #	97
49) Dibromochloromethane	10.80	129	3310m	0.299	ug/L	
50) 1,2-Dibromoethane	10.91	107	2420	0.275	ug/L #	74
51) Chlorobenzene	11.33	112	18962	0.317	ug/L	94
52) Ethylbenzene	11.41	91	28593	0.245	ug/L	91
53) m,p-Xylene	11.52	106	9774	0.234	ug/L	86
54) o-Xylene	11.84	106	8408	0.204	ug/L	93
55) Styrene	11.86	104	11976	0.203	ug/L	95
56) Isopropylbenzene	12.14	105	24854	0.213	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.40	83	3945	0.336	ug/L #	92
59) 1,2,3-Trichloropropane	12.45	75	3451	0.400	ug/L	95
61) Bromoform	12.02	173	1143	0.257	ug/L #	30
62) 1,3-Dichlorobenzene	13.18	146	11431	0.282	ug/L #	82
63) 1,4-Dichlorobenzene	13.26	146	12321	0.306	ug/L	97
65) 1,2-Dichlorobenzene	13.54	146	10604	0.309	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.16	75	645	0.377	ug/L #	73
67) 1,3,5-Trichlorobenzene	14.31	180	9850	0.300	ug/L #	91
68) 1,2,4-trichlorobenzene	14.81	180	6254	0.270	ug/L	95
69) Naphthalene	15.02	128	5025	0.163	ug/L #	78
70) 1,2,3-Trichlorobenzene	15.20	180	6532	0.319	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 0.289 ug/L

RT: 1.85 min Scan# 28

Delta R.T. -0.00 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

ClientSampled :

MDL01

Tgt Ion: 85 Resp: 11091

Ion Ratio Lower Upper

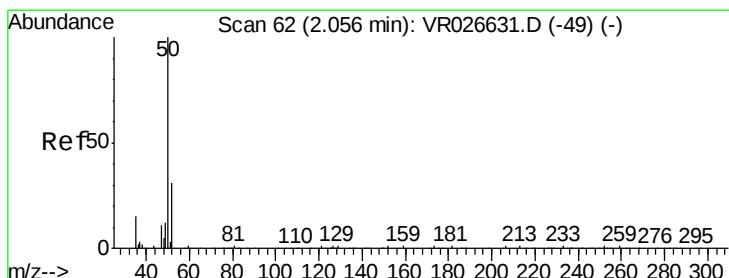
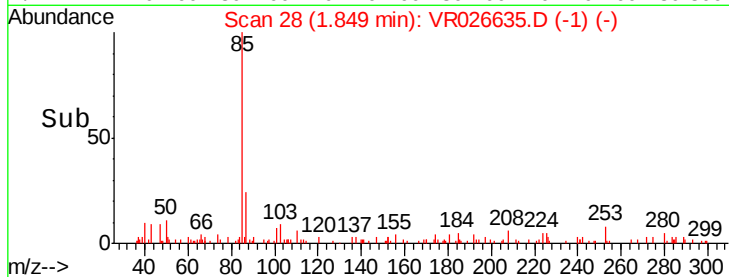
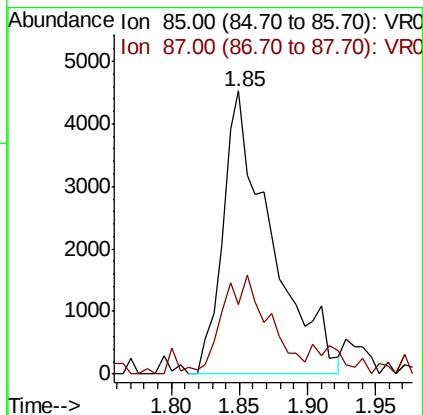
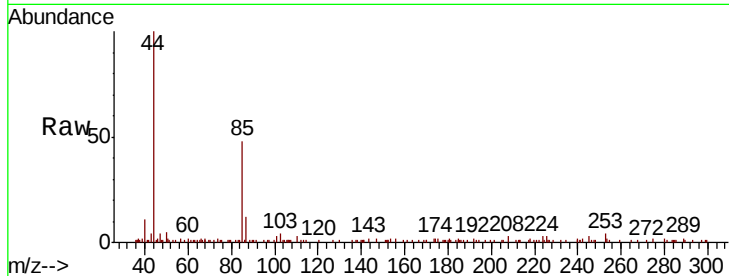
85 100

87 31.2 26.0 39.0

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#3

Chloromethane

Concen: 0.295 ug/L m

RT: 2.07 min Scan# 64

Delta R.T. 0.01 min

Lab File: VR026635.D

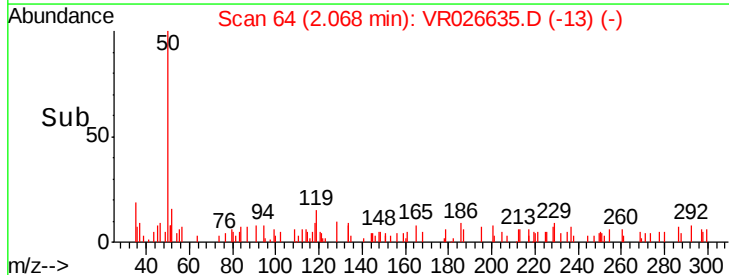
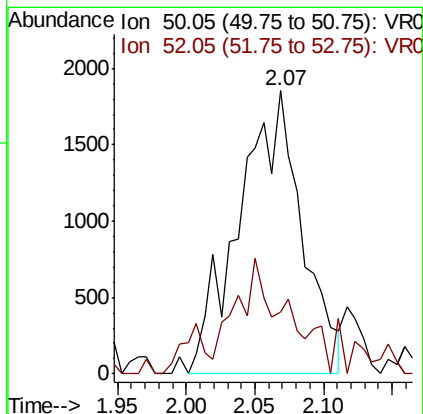
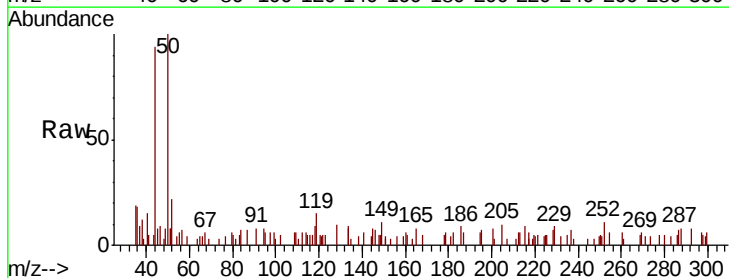
Acq: 13 Sep 2019 16:48

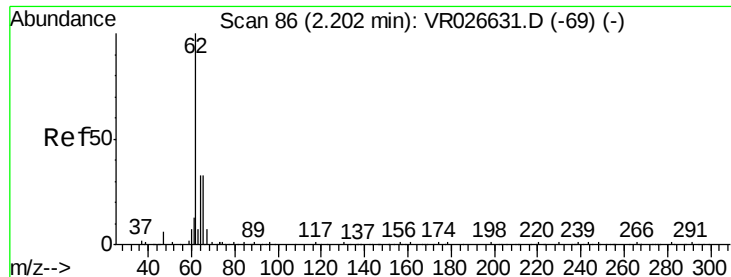
Tgt Ion: 50 Resp: 5923

Ion Ratio Lower Upper

50 100

52 21.7 21.7 40.3





#5

Vinyl chloride

Concen: 0.324 ug/L

RT: 2.18 min Scan# 83

Delta R.T. -0.02 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

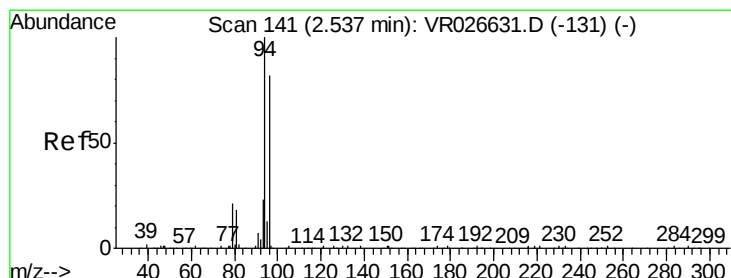
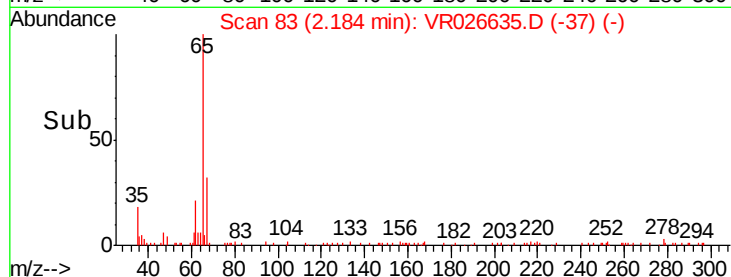
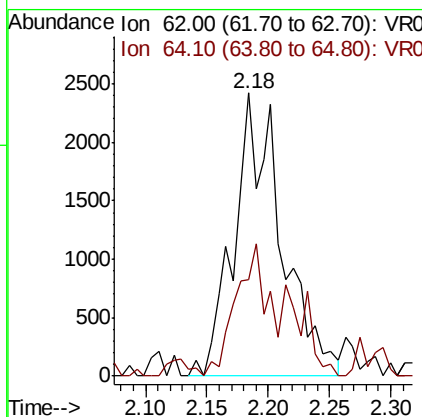
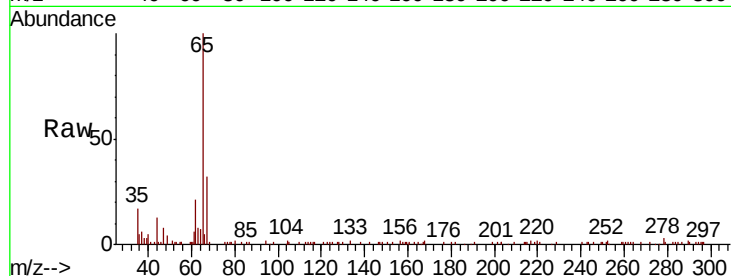
ClientSampled :

MDL01

Tgt Ion:	62	Resp:	6521
Ion Ratio	Lower	Upper	
62	100		
64	34.1	21.2	39.4

Manual Integrations
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#6

Bromomethane

Concen: 0.314 ug/L

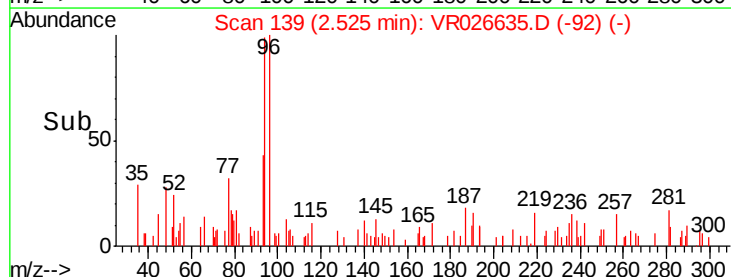
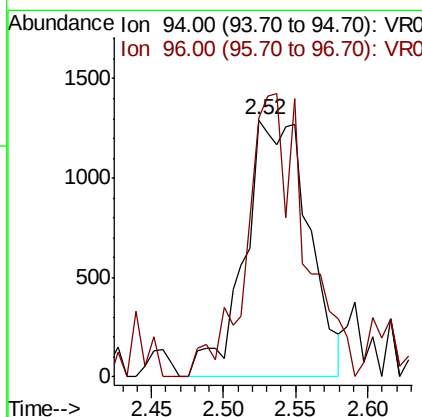
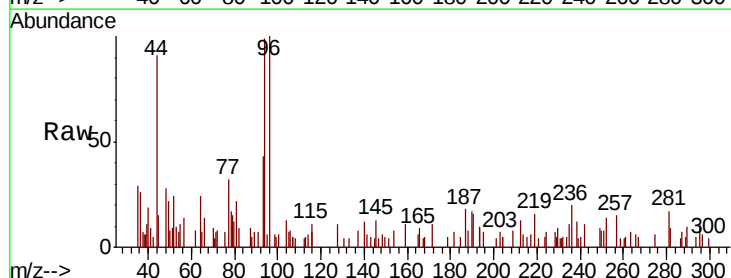
RT: 2.52 min Scan# 139

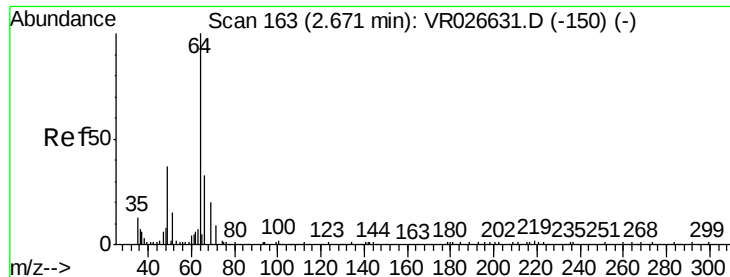
Delta R.T. -0.01 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Tgt Ion:	94	Resp:	3967
Ion Ratio	Lower	Upper	
94	100		
96	100.9	61.0	113.4





#8

Chloroethane

Concen: 0.335 ug/L

RT: 2.67 min Scan# 163

Delta R.T. -0.00 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

ClientSampleId :

MDL01

Tgt Ion: 64 Resp: 3881

Ion Ratio Lower Upper

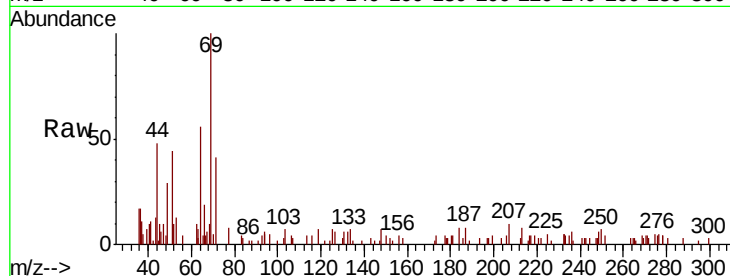
64 100

66 40.9 22.3 41.3

Manual Integrations
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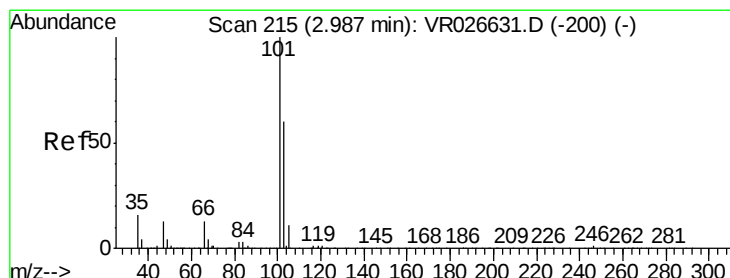
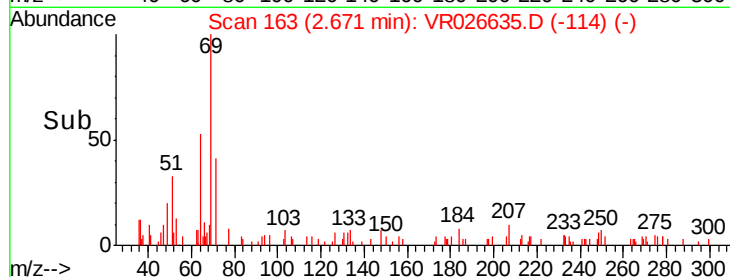
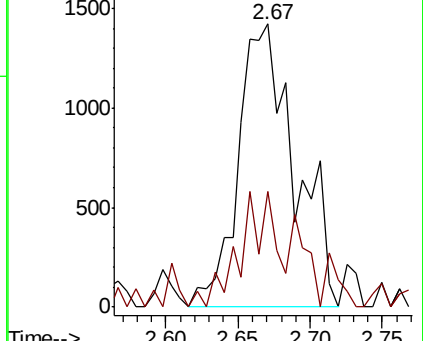
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Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0



#9

Trichlorofluoromethane

Concen: 0.359 ug/L m

RT: 2.96 min Scan# 211

Delta R.T. -0.02 min

Lab File: VR026635.D

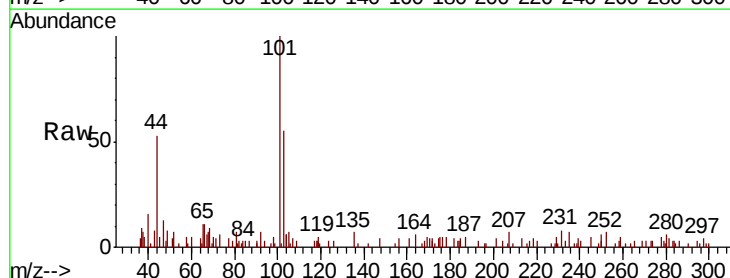
Acq: 13 Sep 2019 16:48

Tgt Ion: 101 Resp: 12469

Ion Ratio Lower Upper

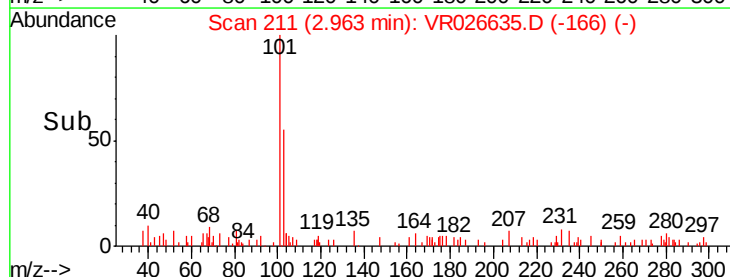
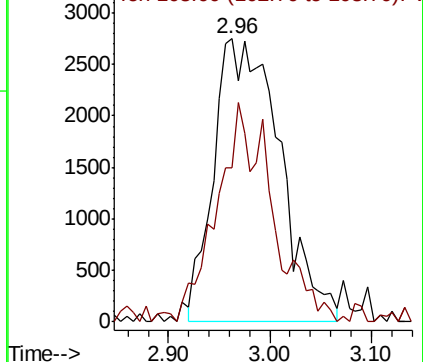
101 100

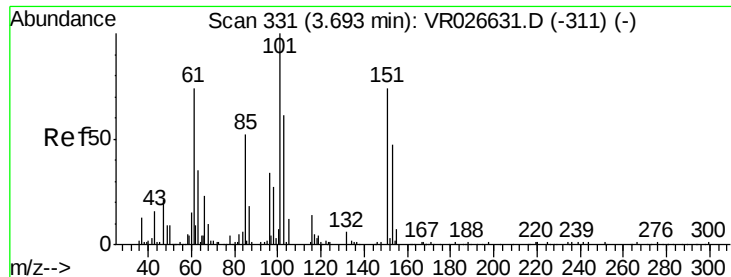
103 1.1 50.9 76.3#



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: 0.334 ug/L m

RT: 3.69 min Scan# 330

Delta R.T. -0.01 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

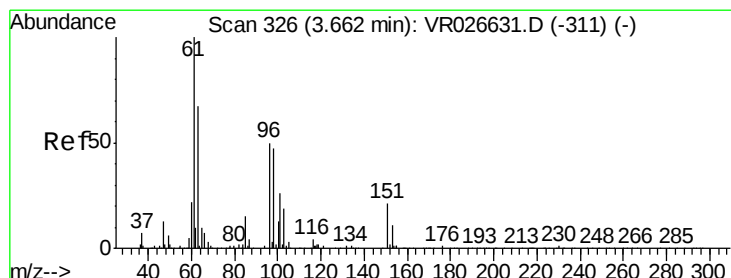
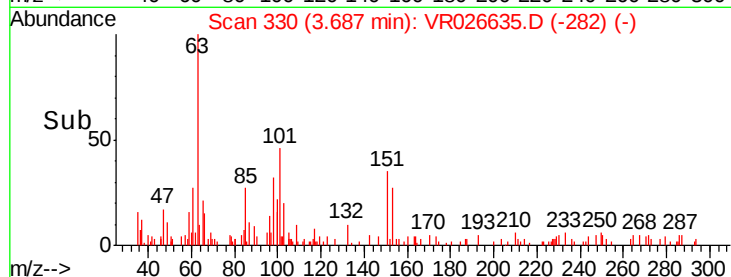
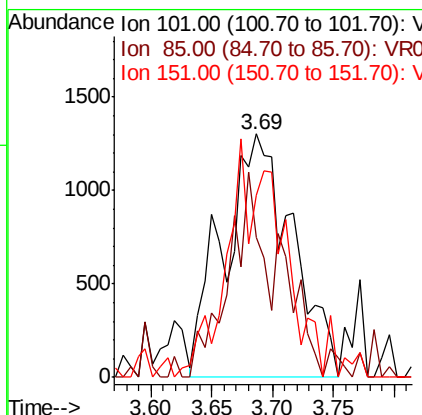
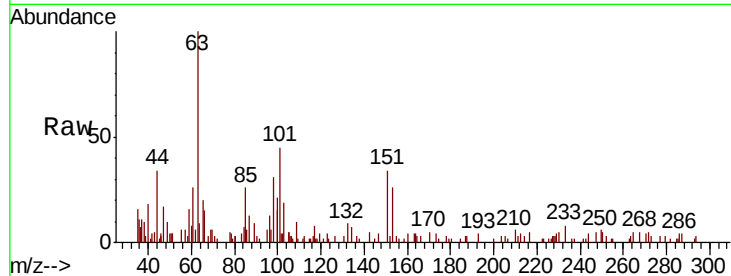
ClientSampled :

MDL01

Tgt Ion:	101	Resp:	5087
Ion Ratio	Lower	Upper	
101	100		
85	41.5	39.7	59.5
151	33.4	58.4	87.6#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.349 ug/L m

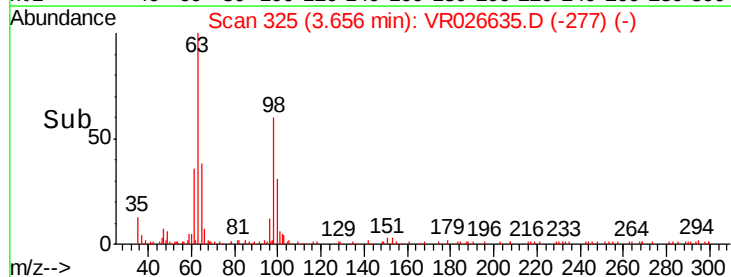
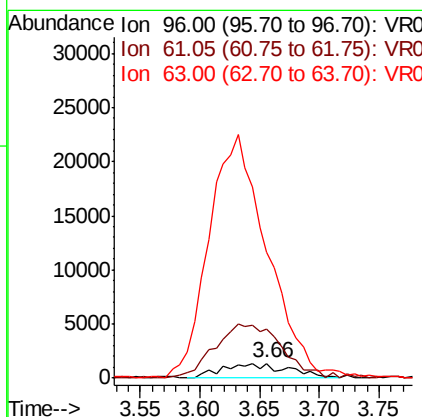
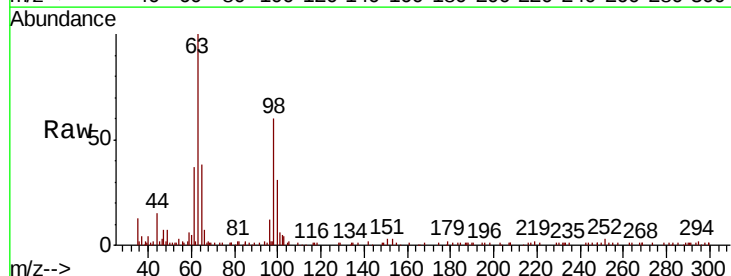
RT: 3.66 min Scan# 325

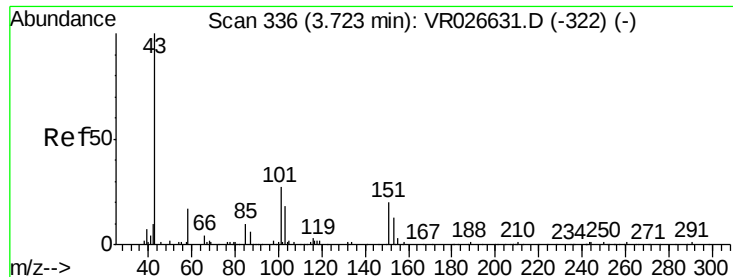
Delta R.T. -0.01 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Tgt Ion:	96	Resp:	5227
Ion Ratio	Lower	Upper	
96	100		
61	308.4	143.3	266.1#
63	837.8	112.6	209.0#





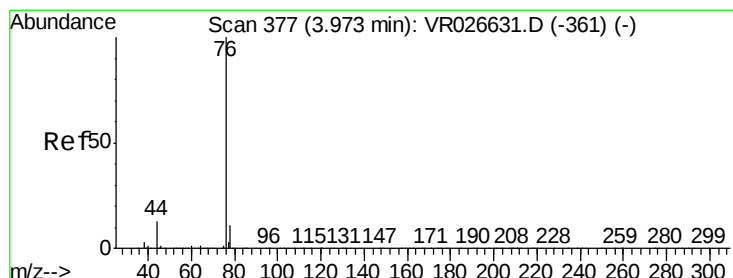
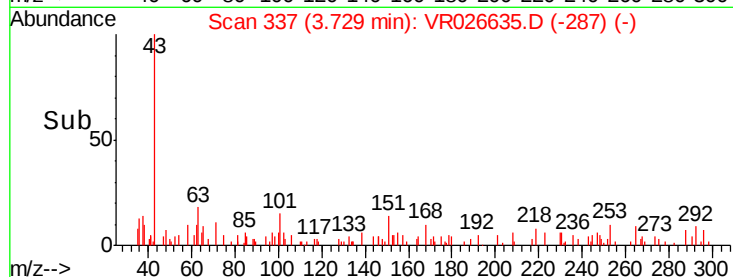
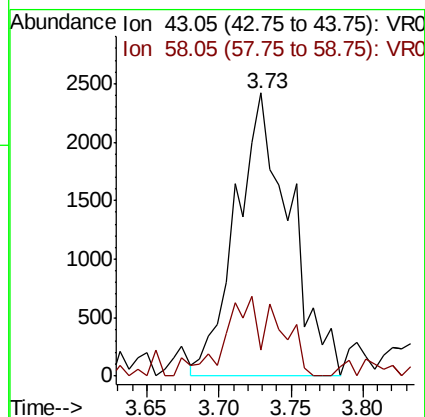
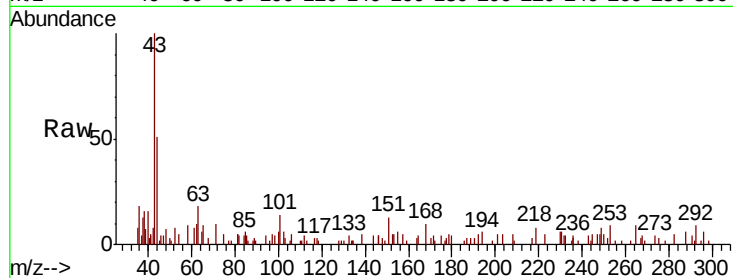
#13
Acetone
Concen: 4.114 ug/L
RT: 3.73 min Scan# 337
Delta R.T. 0.01 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampled :
MDL01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	17.6	0.0	41.8

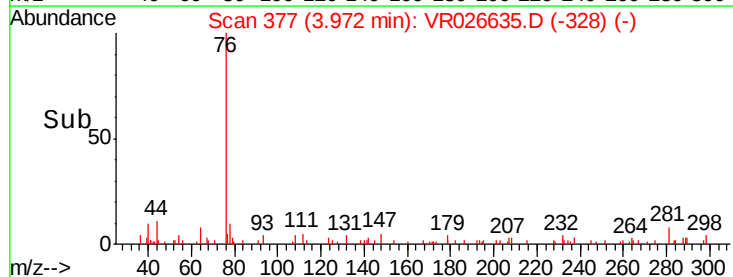
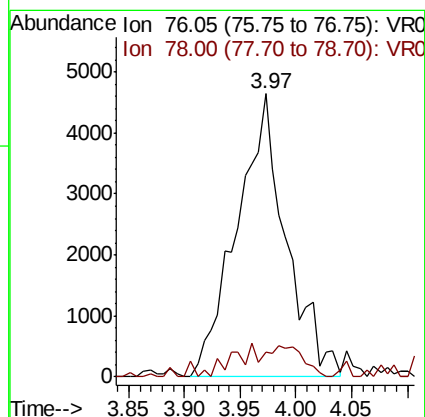
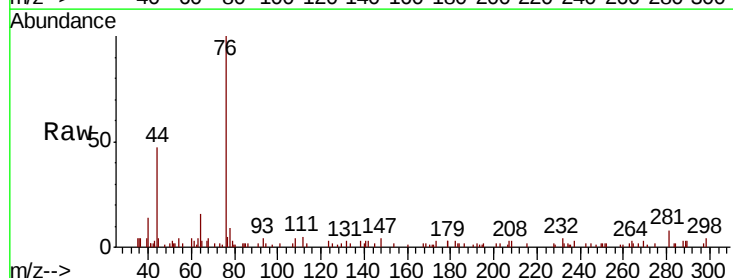
Manual Integrations
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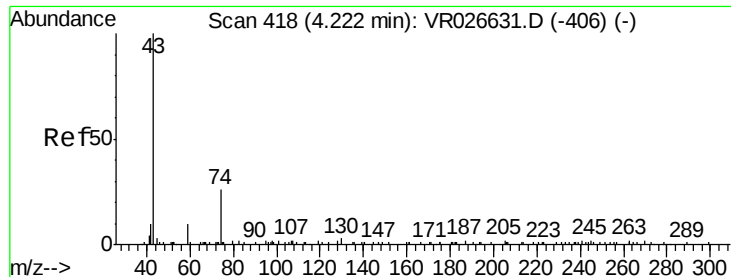
MMDadoda
9/16/2019 12:45:00 AM



#14
Carbon disulfide
Concen: 0.221 ug/L
RT: 3.97 min Scan# 377
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.0





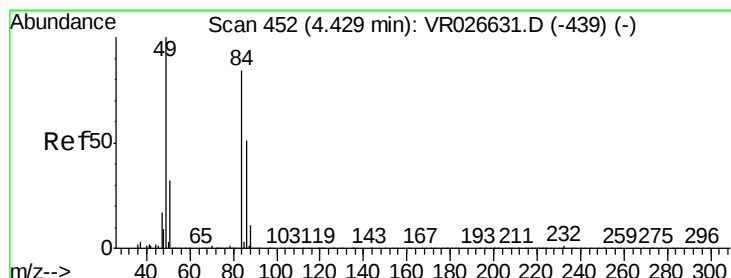
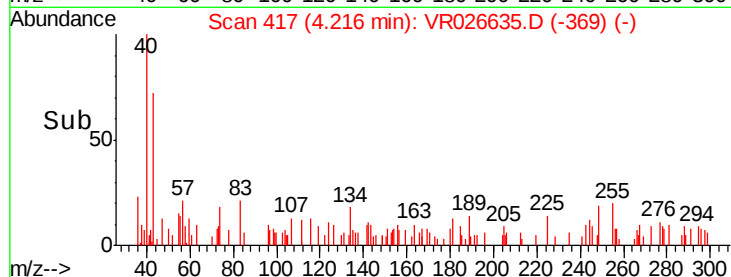
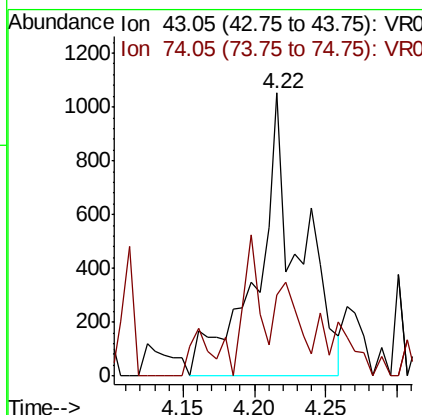
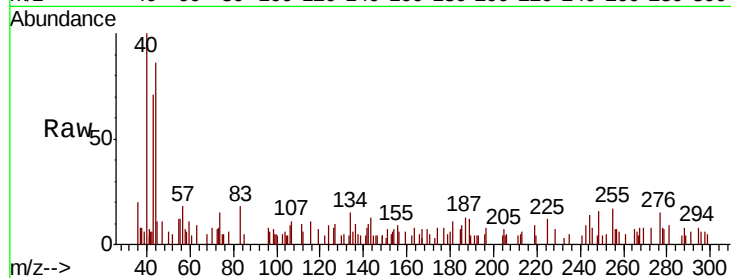
#15
Methyl Acetate
Concen: 0.341 ug/L m
RT: 4.22 min Scan# 417
Delta R.T. -0.01 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampled :
MDL01

Tgt Ion: 43 Resp: 2181
Ion Ratio Lower Upper
43 100
74 12.8 17.5 26.3#

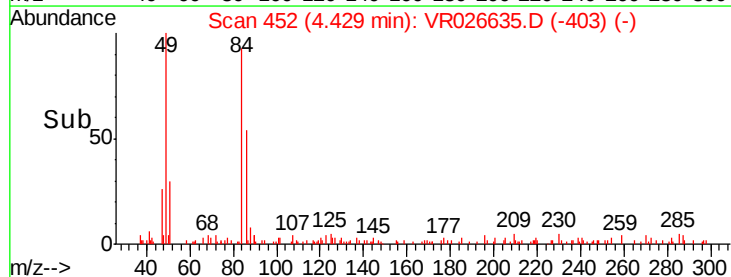
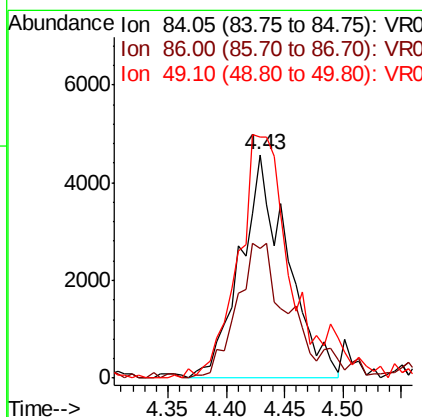
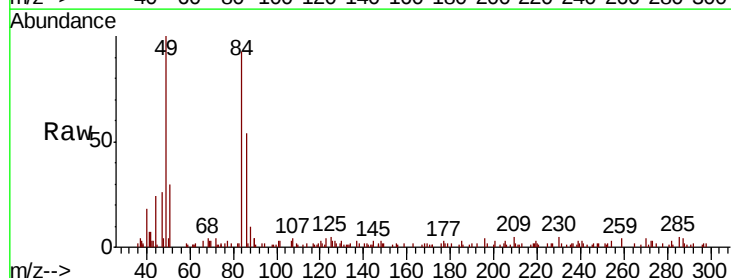
Manual Integrations
APPROVED

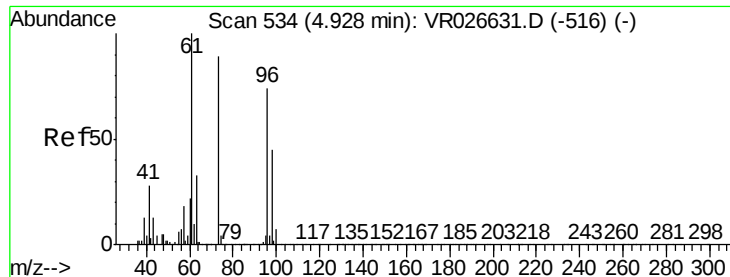
MMDadoda
9/16/2019 12:45:00 AM



#16
Methylene chloride
Concen: 0.411 ug/L
RT: 4.43 min Scan# 452
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion: 84 Resp: 12821
Ion Ratio Lower Upper
84 100
86 60.4 44.2 82.0
49 107.7 82.3 152.9





#17

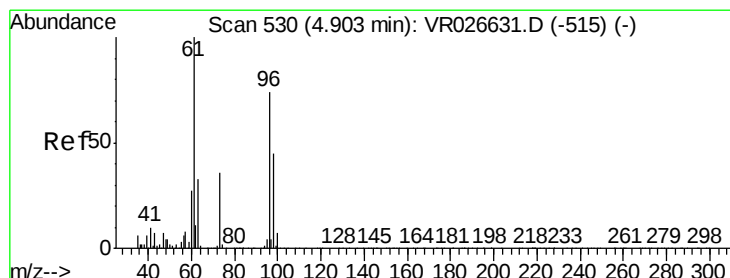
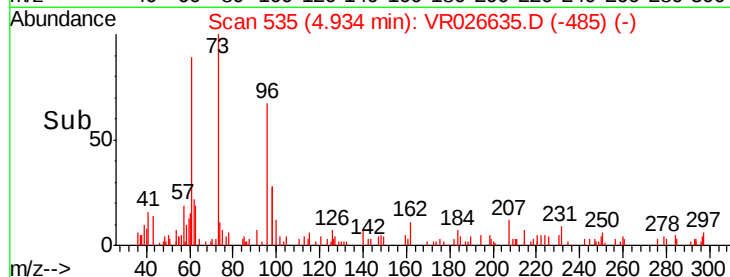
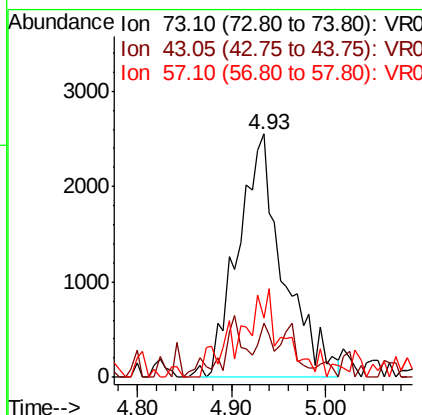
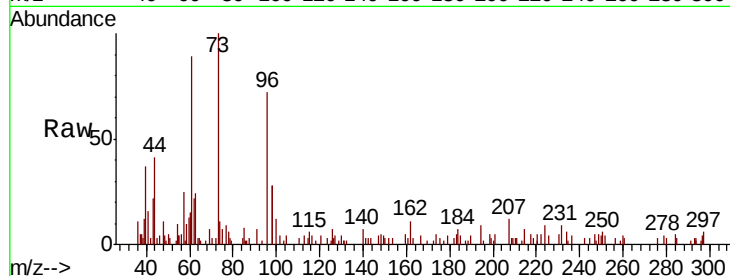
Methyl tert-butyl Ether
Concen: 0.264 ug/L
RT: 4.93 min Scan# 535
Delta R.T. 0.01 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampleId :
MDL01

Tgt Ion	Ratio	Resp	Lower	Upper
73	100	8549		
43	6.3	14.7	22.1#	
57	23.0	18.9	28.3	

Manual Integrations
APPROVED

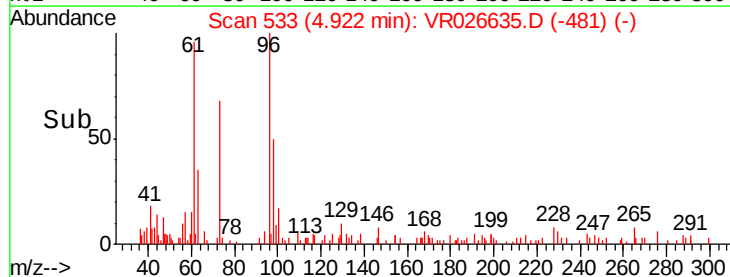
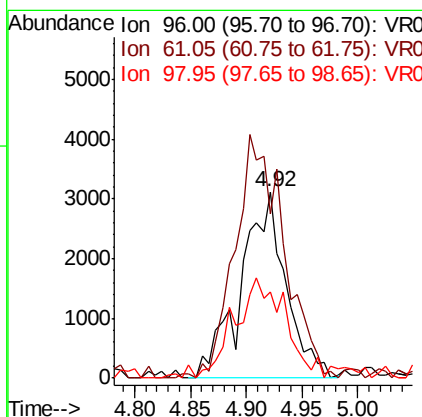
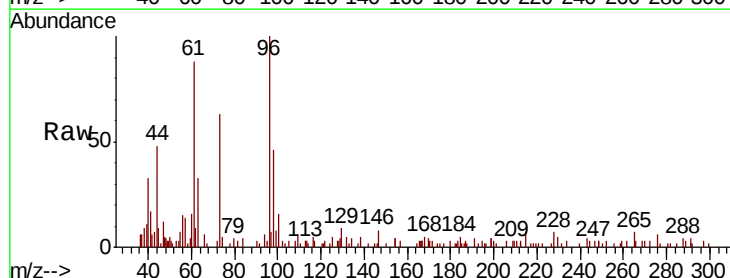
MMDadoda
9/16/2019 12:45:00 AM

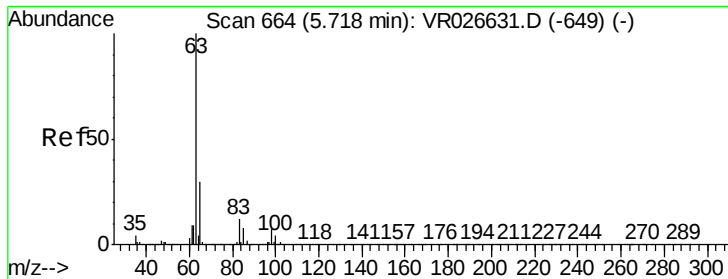


#18

trans-1,2-Dichloroethene
Concen: 0.280 ug/L
RT: 4.92 min Scan# 533
Delta R.T. 0.02 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	8767		
61	87.9	104.4	194.0#	
98	46.1	44.2	82.0	





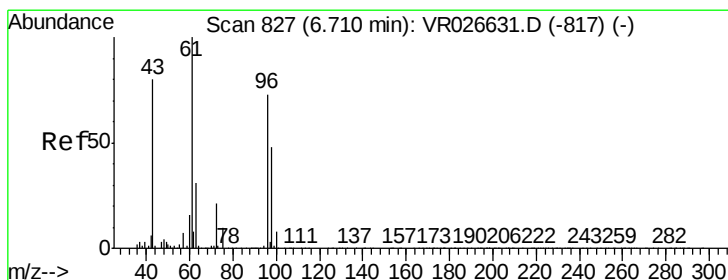
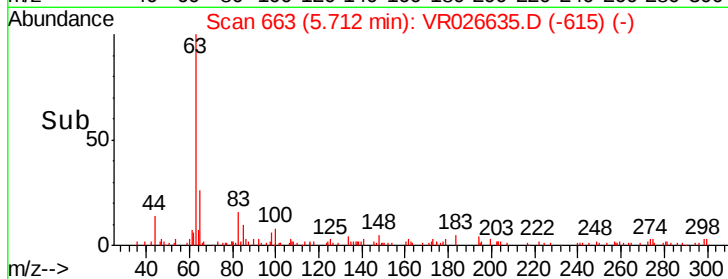
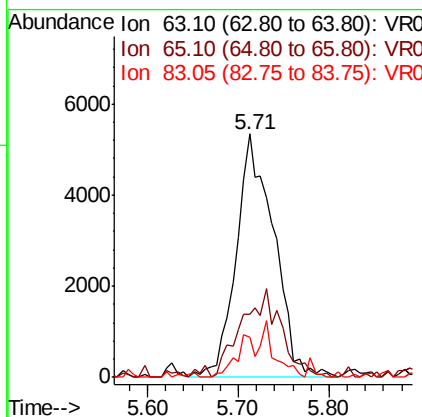
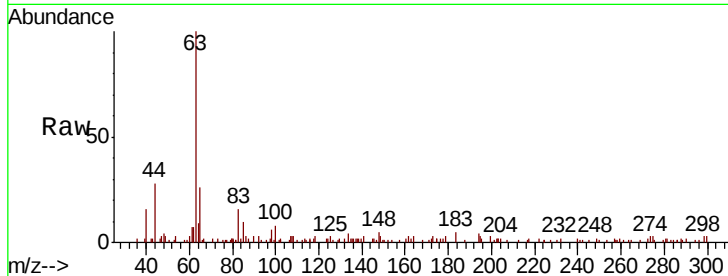
#19
1,1-Dichloroethane
Concen: 0.261 ug/L
RT: 5.71 min Scan# 663
Delta R.T. -0.01 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampleId :
MDL01

Tgt Ion	Ratio	Resp Lower	Resp Upper
63	100		
65	25.8	22.5	41.9
83	16.2	8.6	16.0

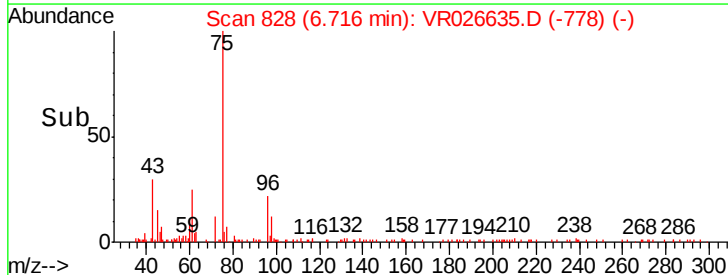
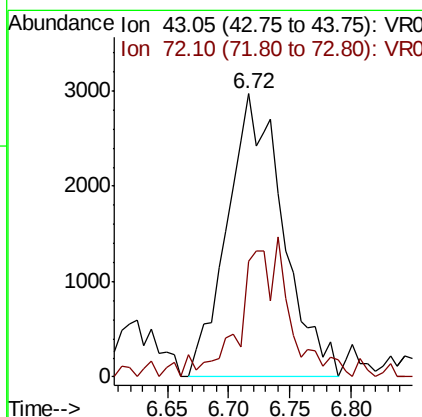
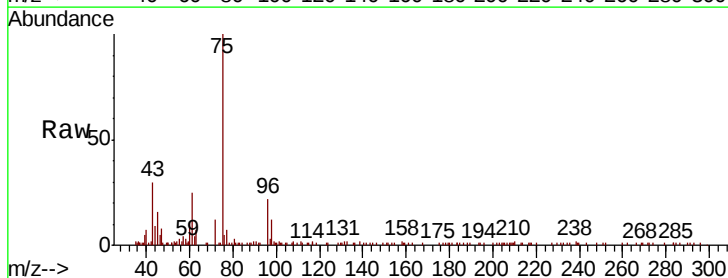
Manual Integrations
APPROVED

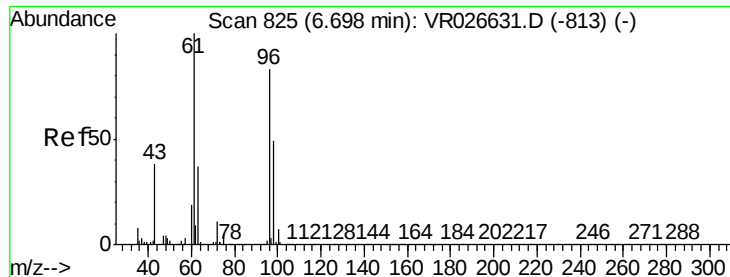
MMDadoda
9/16/2019 12:45:00 AM



#21
2-Butanone
Concen: 3.378 ug/L
RT: 6.72 min Scan# 828
Delta R.T. 0.01 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Resp Lower	Resp Upper
43	100		
72	40.4	15.0	45.1





#22

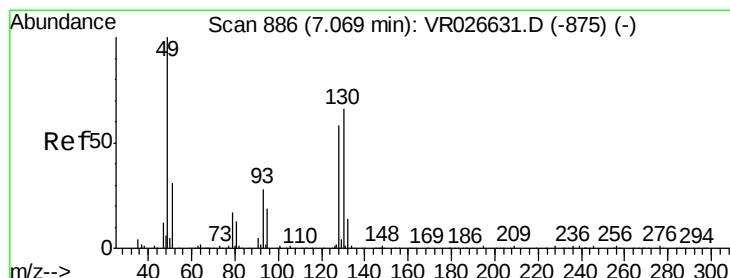
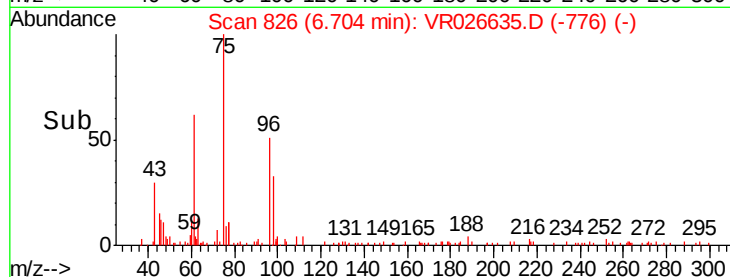
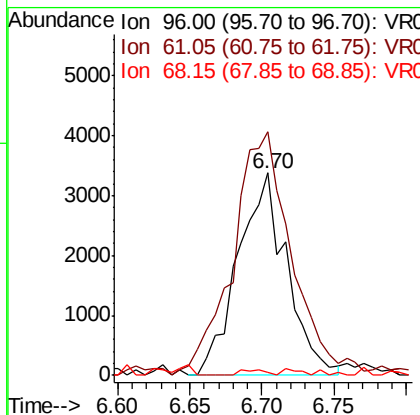
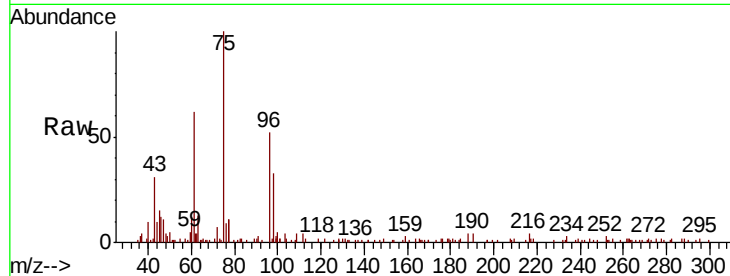
cis-1,2-Dichloroethene
Concen: 0.264 ug/L
RT: 6.70 min Scan# 826
Delta R.T. 0.01 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampled :
MDL01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	7942		
61	120.4	95.4	177.2	
68	1.7	0.0	0.0#	

Manual Integrations
APPROVED

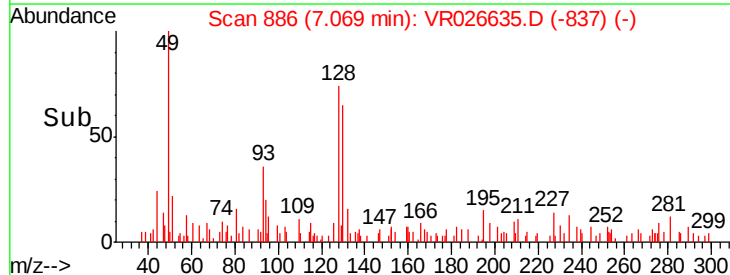
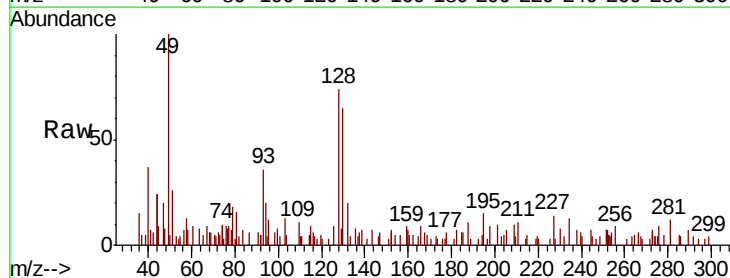
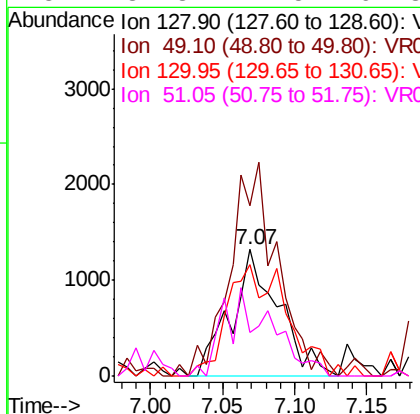
MMDadoda
9/16/2019 12:45:00 AM

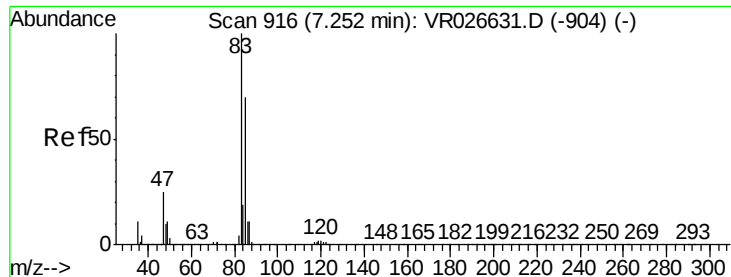


#23

Bromochloromethane
Concen: 0.360 ug/L
RT: 7.07 min Scan# 886
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	3006		
49	134.2	118.6	220.3	
130	87.8	80.6	149.6	
51	34.3	41.5	62.3#	





#25

Chloroform

Concen: 0.373 ug/L

RT: 7.25 min Scan# 916

Delta R.T. -0.00 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

ClientSampled :

MDL01

Tgt Ion: 83 Resp: 20994

Ion Ratio Lower Upper

83 100

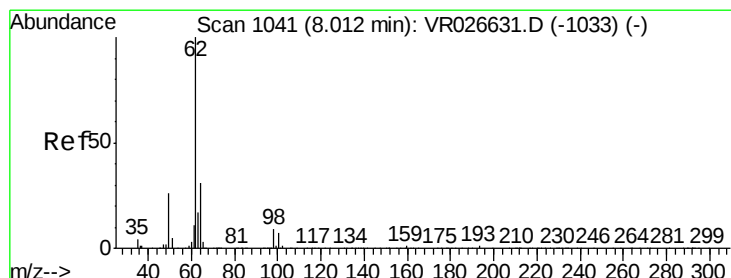
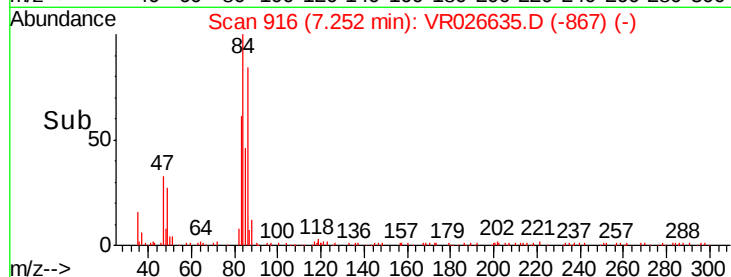
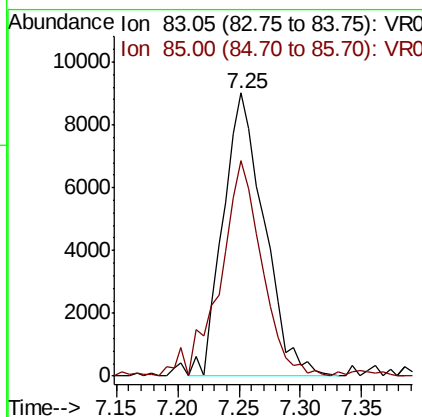
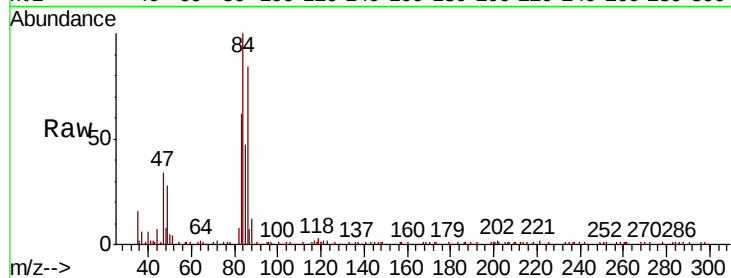
85 76.1 44.3 82.3

Manual Integrations

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MMDadoda

9/16/2019 12:45:00 AM



#27

1,2-Dichloroethane

Concen: 0.278 ug/L

RT: 8.01 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VR026635.D

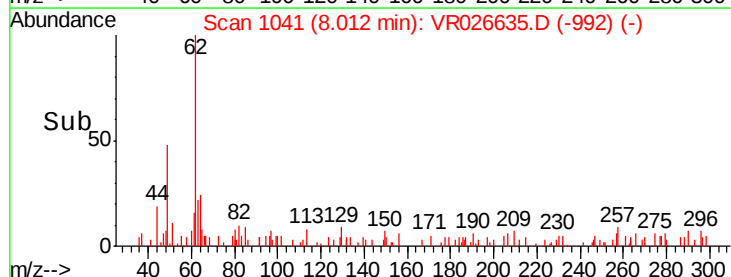
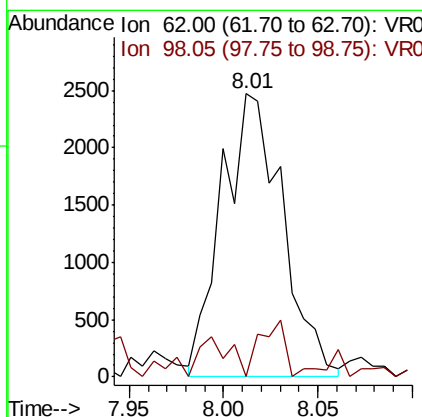
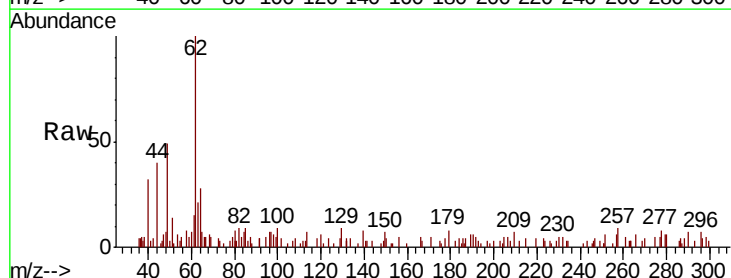
Acq: 13 Sep 2019 16:48

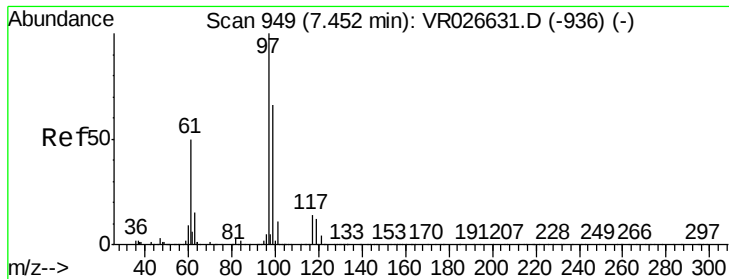
Tgt Ion: 62 Resp: 5512

Ion Ratio Lower Upper

62 100

98 0.0 9.0 13.4#





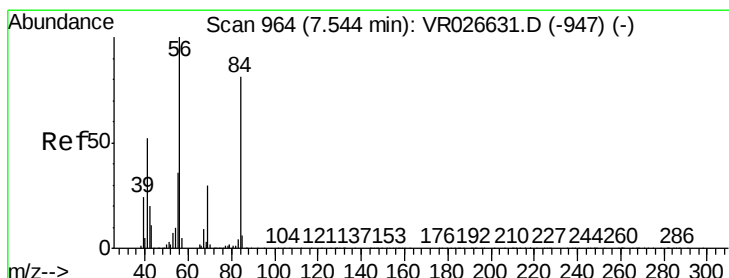
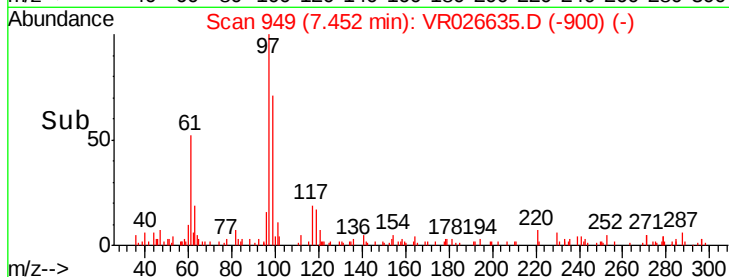
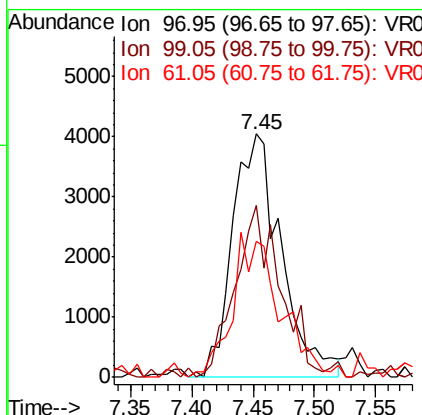
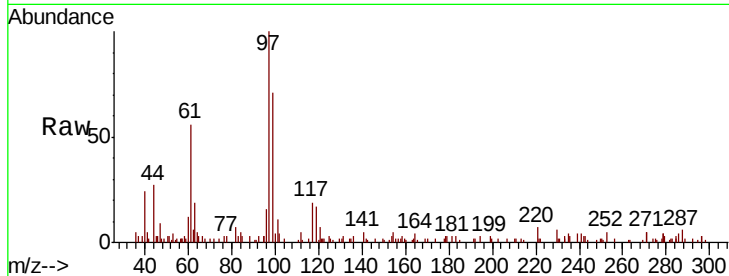
#29
1,1,1-Trichloroethane
Concen: 0.260 ug/L
RT: 7.45 min Scan# 949
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampled :
MDL01

Tgt Ion	Ratio	Resp Lower	Upper
97	100		
99	66.1	50.1	75.1
61	57.8	37.8	56.8

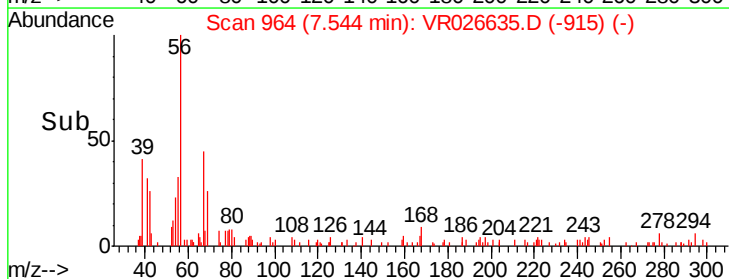
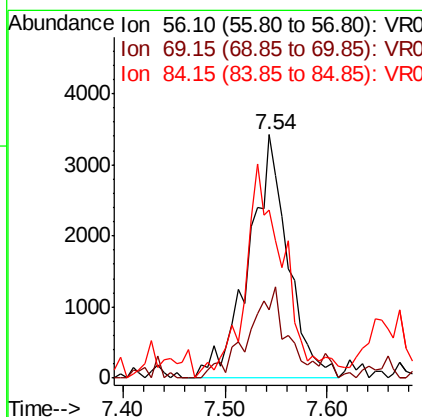
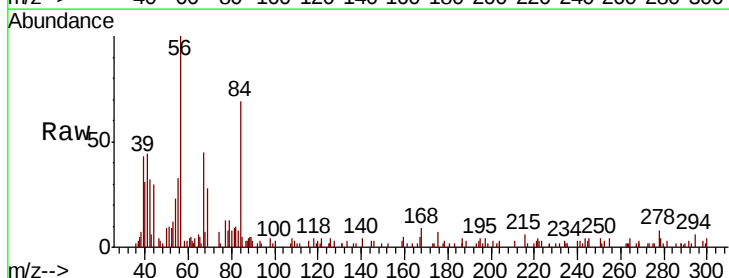
Manual Integrations
APPROVED

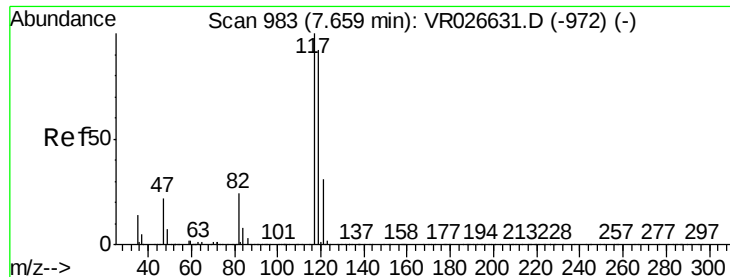
MMDadoda
9/16/2019 12:45:00 AM



#30
Cyclohexane
Concen: 0.199 ug/L
RT: 7.54 min Scan# 964
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Resp Lower	Upper
56	100		
69	35.8	25.9	38.9
84	79.9	67.6	101.4





#31

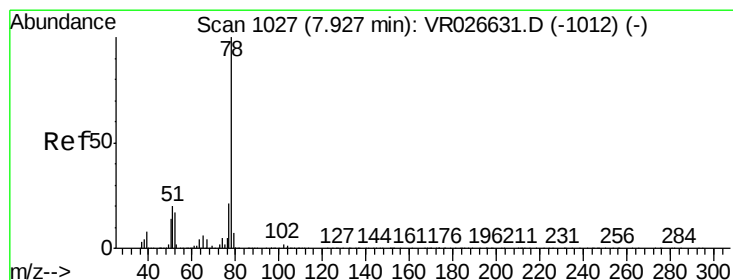
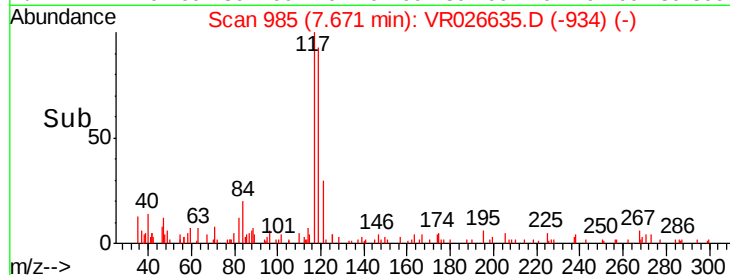
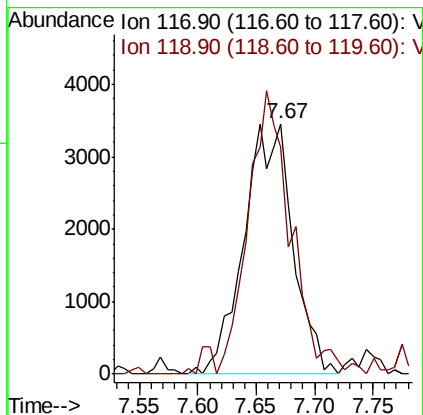
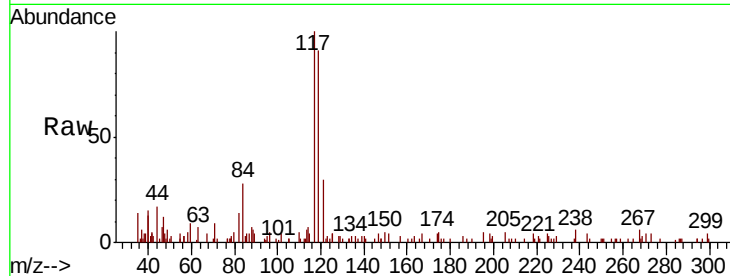
Carbon tetrachloride
Concen: 0.277 ug/L
RT: 7.67 min Scan# 985
Delta R.T. 0.01 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampleId :
MDL01

Tgt Ion: 117 Resp: 10032
Ion Ratio Lower Upper
117 100
119 99.6 76.6 115.0

Manual Integrations
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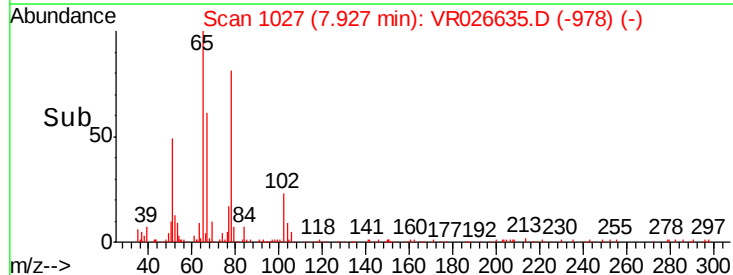
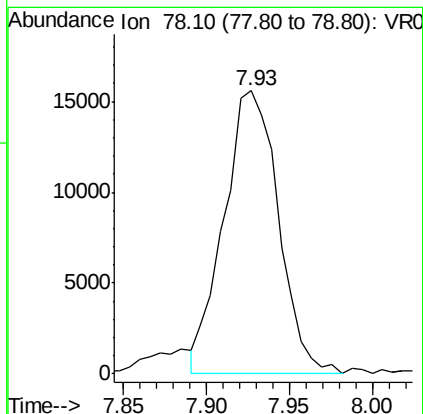
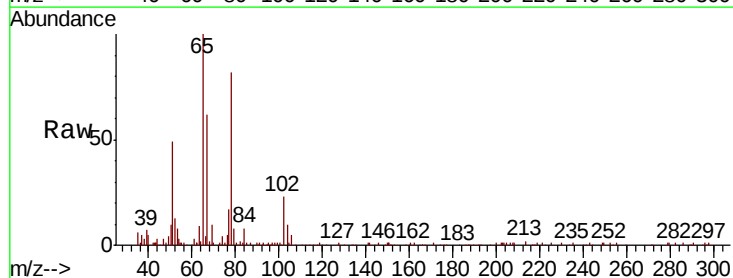
MMDadoda
9/16/2019 12:45:00 AM

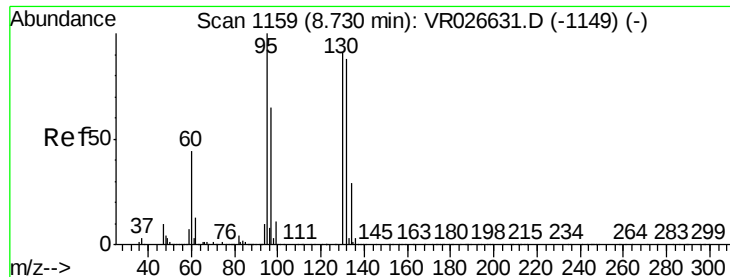


#33

Benzene
Concen: 0.301 ug/L m
RT: 7.93 min Scan# 1027
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion: 78 Resp: 35554





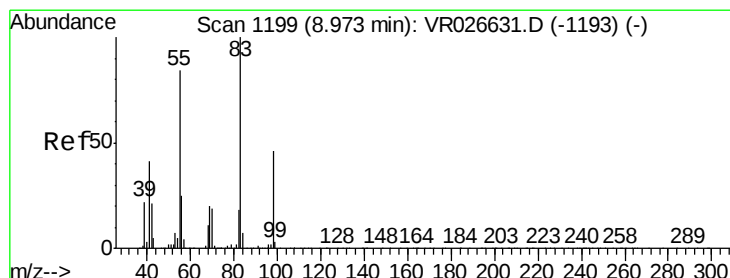
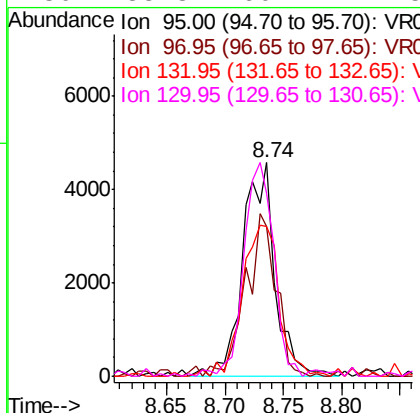
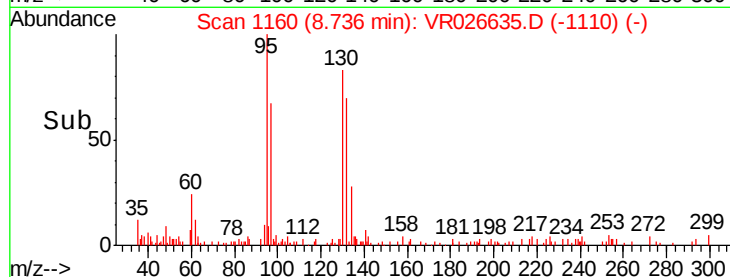
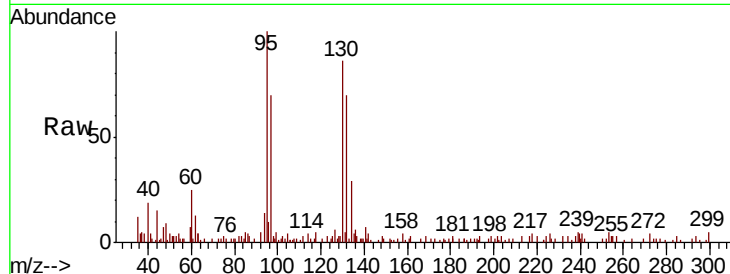
#34
 Trichloroethene
 Concen: 0.299 ug/L
 RT: 8.74 min Scan# 1160
 Delta R.T. 0.01 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL01

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	8797		
97	69.9	45.6	84.6	
132	70.0	57.3	106.5	
130	85.8	60.1	111.5	

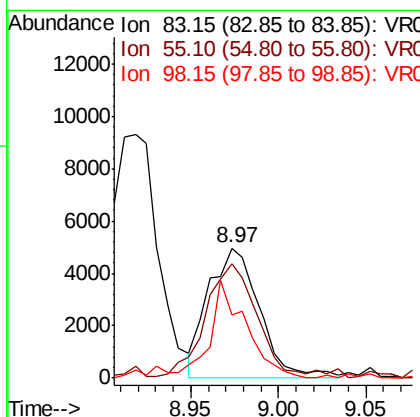
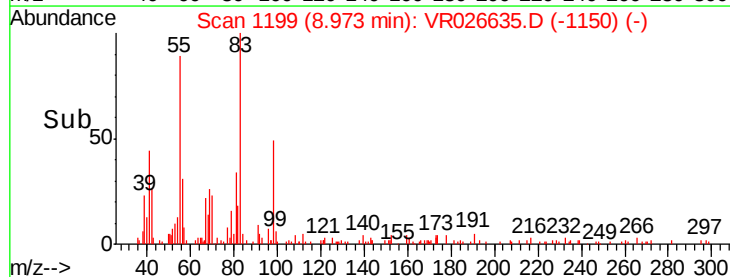
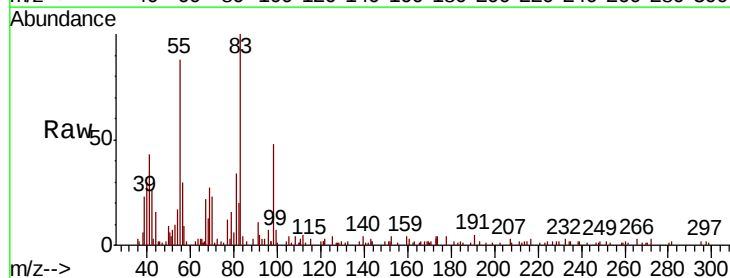
Manual Integrations
 APPROVED

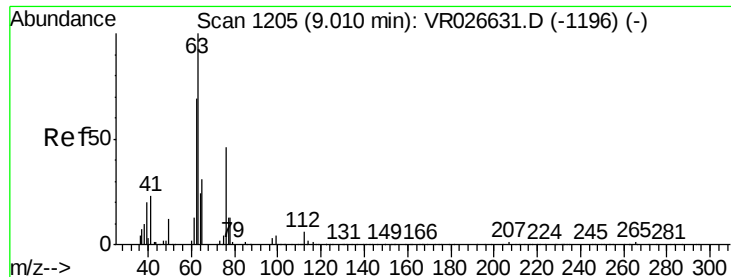
MMDadoda
 9/16/2019 12:45:00 AM



#35
 Methylcyclohexane
 Concen: 0.229 ug/L
 RT: 8.97 min Scan# 1199
 Delta R.T. -0.00 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	10108		
55	88.4	63.5	95.3	
98	52.7	35.4	53.0	





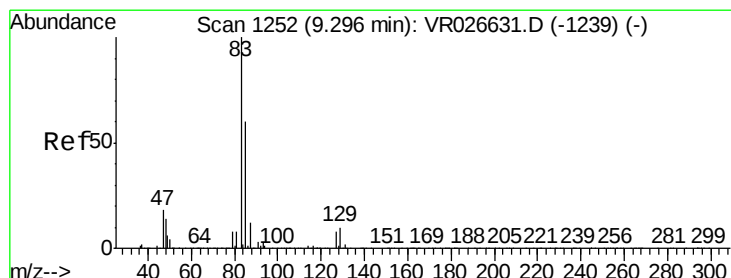
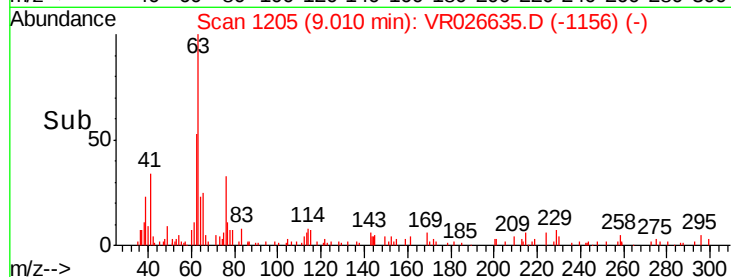
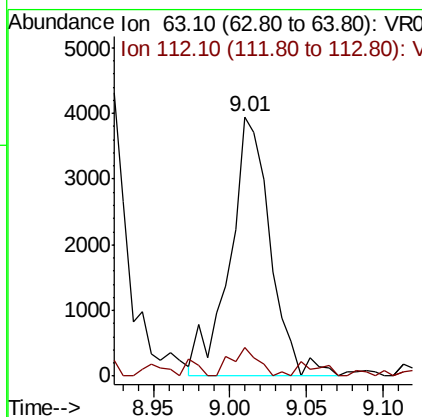
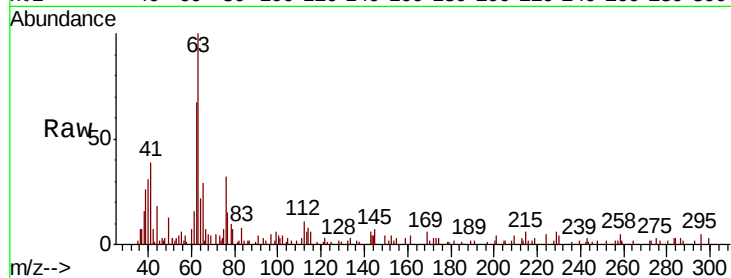
#37
 1,2-Dichloropropane
 Concen: 0.305 ug/L
 RT: 9.01 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Instrument :
 MSVOA_R
 ClientSampleID :
 MDL01

Tgt Ion	Ratio	Lower	Upper
63	100		
112	7.5	3.1	4.7#

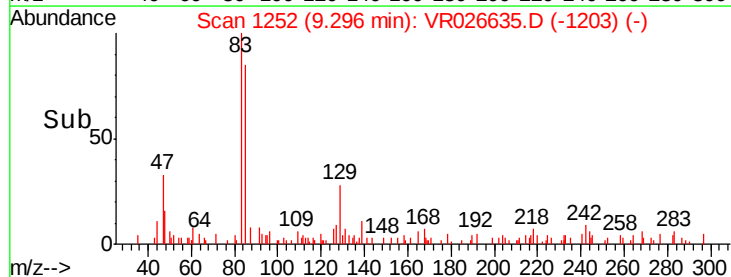
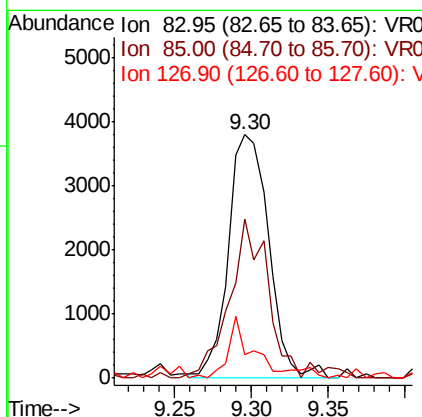
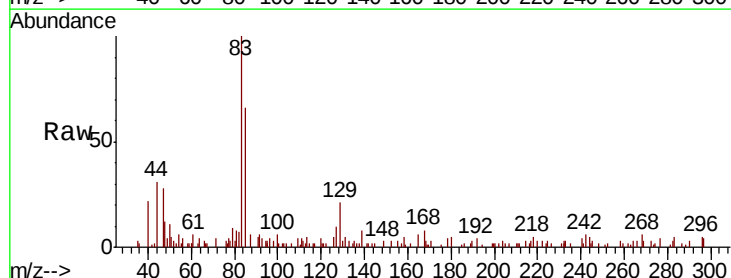
Manual Integrations
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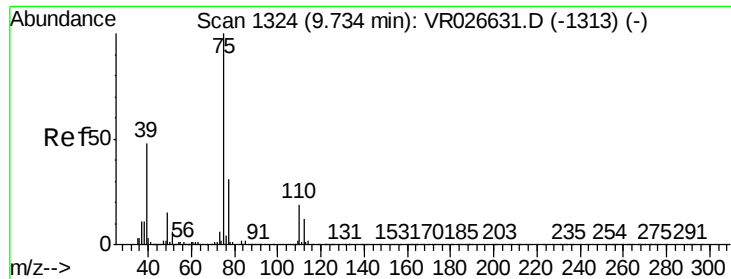
MMDadoda
 9/16/2019 12:45:00 AM



#38
 Bromodichloromethane
 Concen: 0.274 ug/L
 RT: 9.30 min Scan# 1252
 Delta R.T. -0.00 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	44.0	81.8
127	9.7	6.4	9.6#





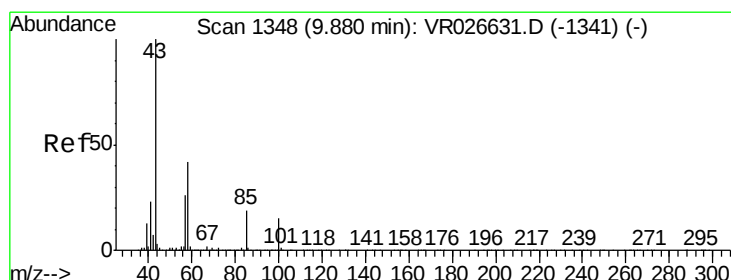
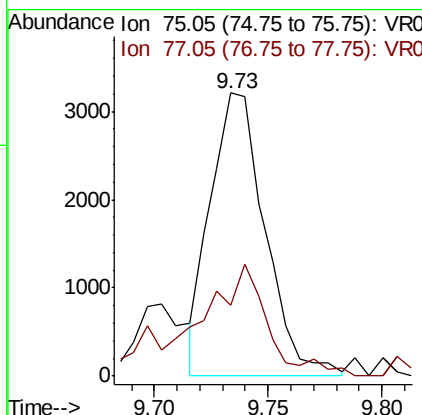
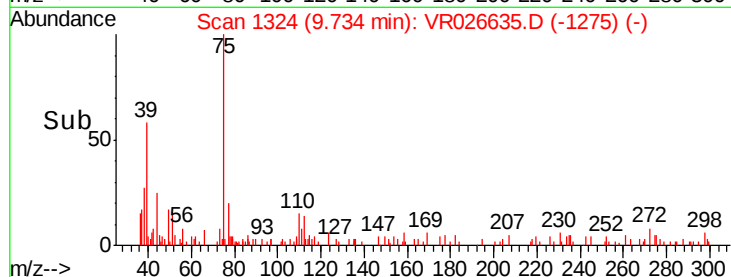
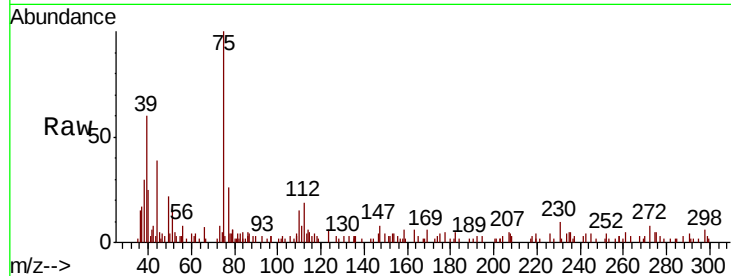
#39
 cis-1,3-Dichloropropene
 Concen: 0.213 ug/L m
 RT: 9.73 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Instrument :
 MSVOA_R
 ClientSampled :
 MDL01

Tgt Ion: 75 Resp: 5375
 Ion Ratio Lower Upper
 75 100
 77 25.7 21.8 40.6

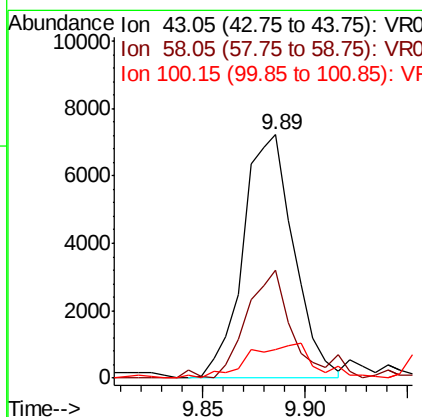
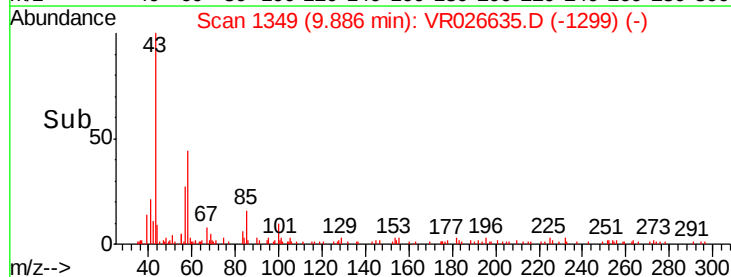
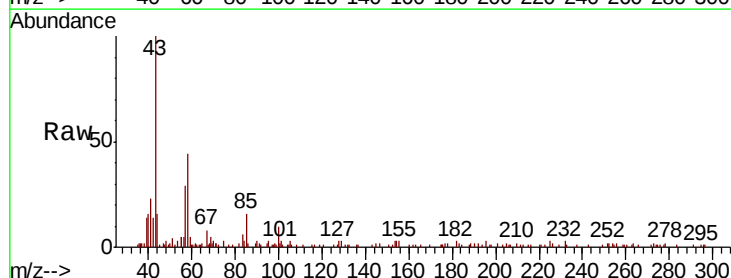
Manual Integrations
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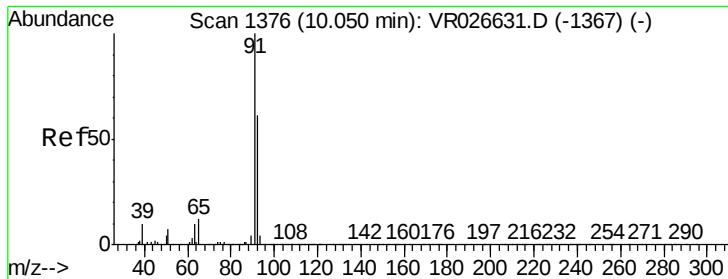
MMDadoda
 9/16/2019 12:45:00 AM



#40
 4-Methyl-2-pentanone
 Concen: 2.088 ug/L
 RT: 9.89 min Scan# 1349
 Delta R.T. 0.01 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Tgt Ion: 43 Resp: 12457
 Ion Ratio Lower Upper
 43 100
 58 40.6 32.6 48.8
 100 0.0 11.7 17.5#





#42

Toluene

Concen: 0.290 ug/L

RT: 10.05 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

ClientSampleId :

MDL01

Tgt Ion: 91 Resp: 29911

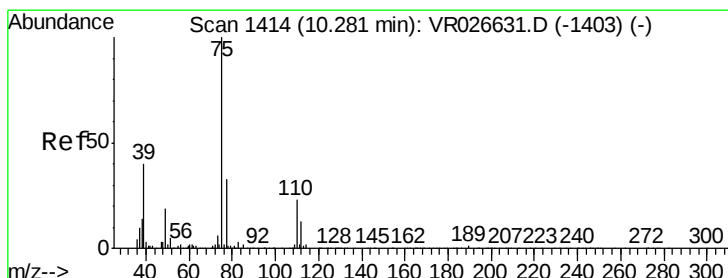
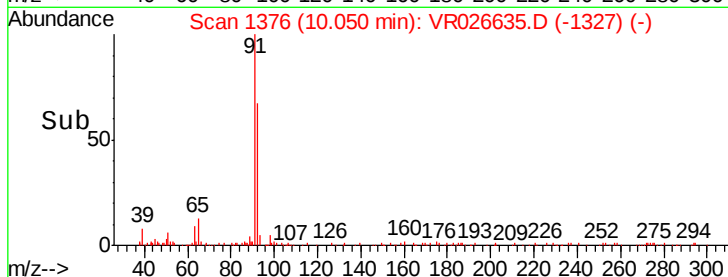
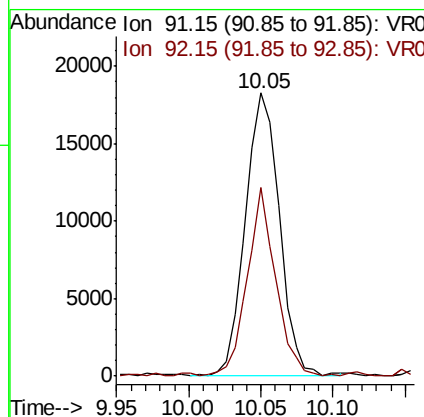
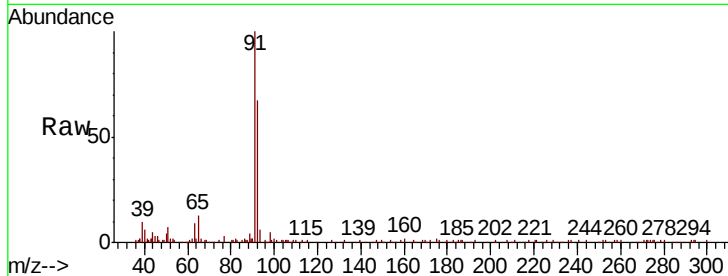
Ion Ratio Lower Upper

91 100

92 66.5 40.8 75.8

Manual Integrations
APPROVED

MMDadoda
9/16/2019 12:45:00 AM



#44

trans-1,3-Dichloropropene

Concen: 0.328 ug/L

RT: 10.28 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VR026635.D

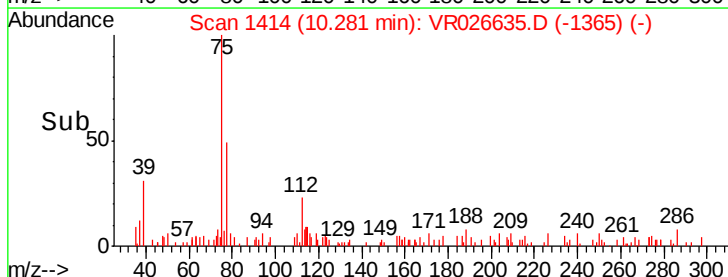
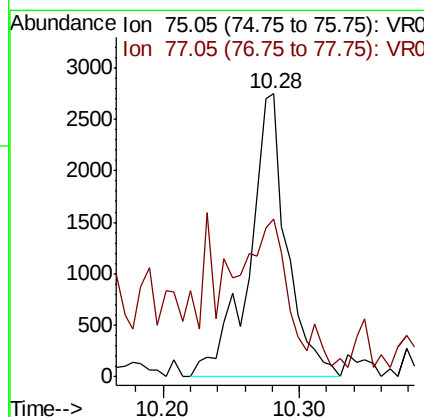
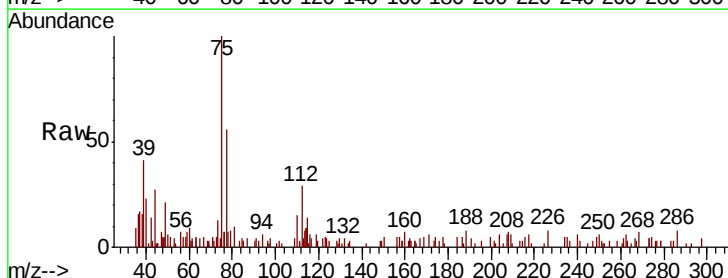
Acq: 13 Sep 2019 16:48

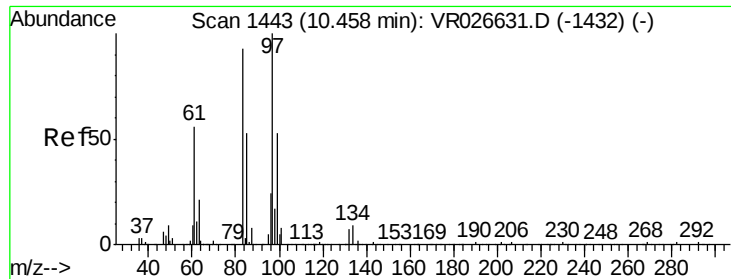
Tgt Ion: 75 Resp: 5314

Ion Ratio Lower Upper

75 100

77 56.0 23.1 42.9#





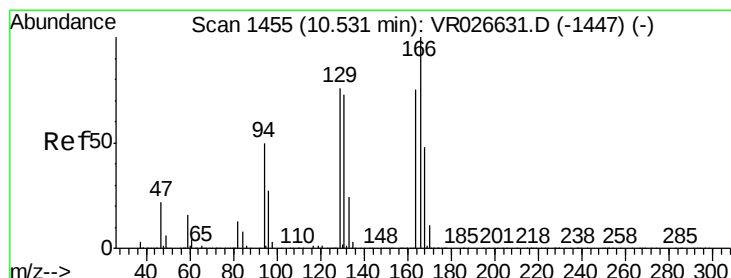
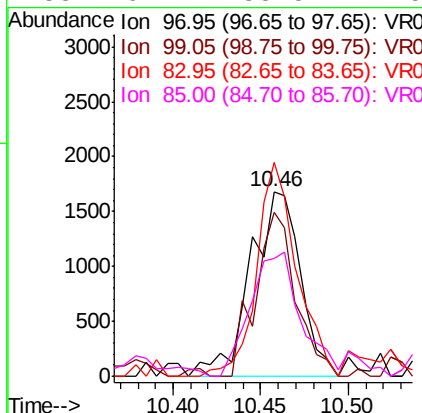
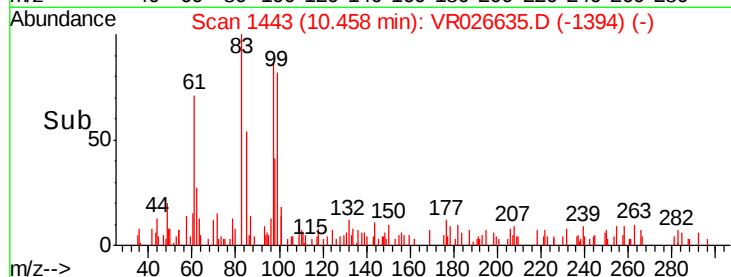
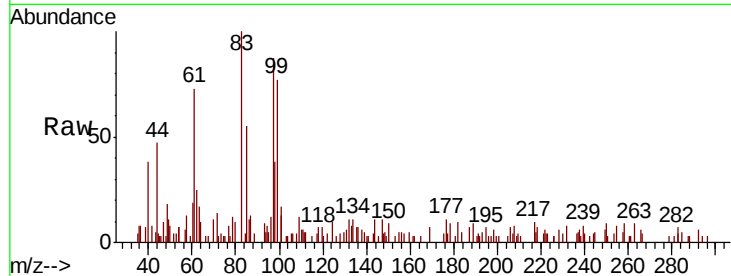
#45
 1,1,2-Trichloroethane
 Concen: 0.331 ug/L
 RT: 10.46 min Scan# 1443
 Delta R.T. -0.00 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	88.5	45.6	84.6#
83	115.6	64.5	119.9
85	64.1	38.5	71.5

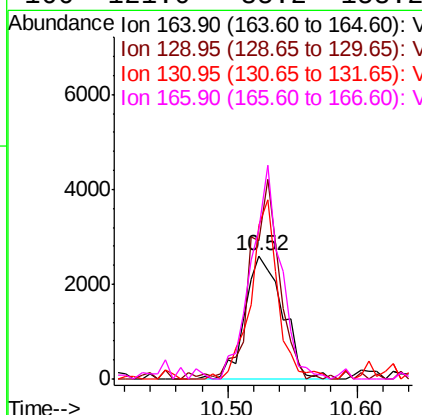
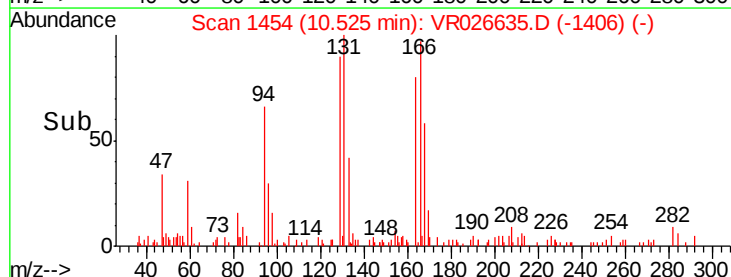
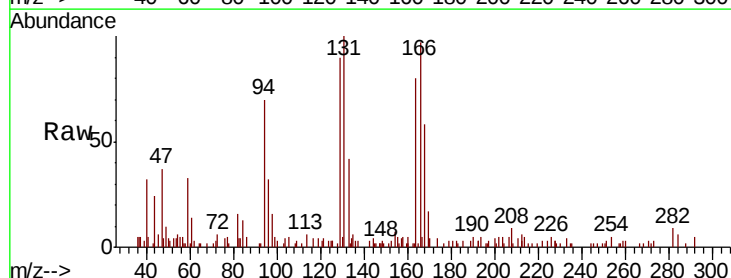
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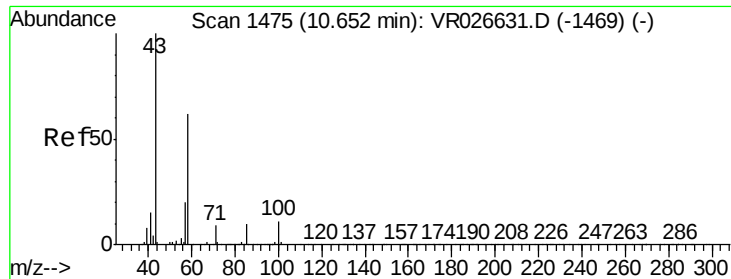
MMDadoda
 9/16/2019 12:45:00 AM



#47
 Tetrachloroethene
 Concen: 0.299 ug/L
 RT: 10.52 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Lower	Upper
164	100		
129	112.3	74.8	139.0
131	124.6	69.1	128.3
166	121.0	85.2	158.2





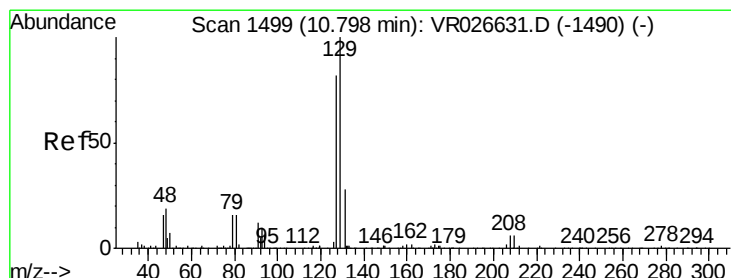
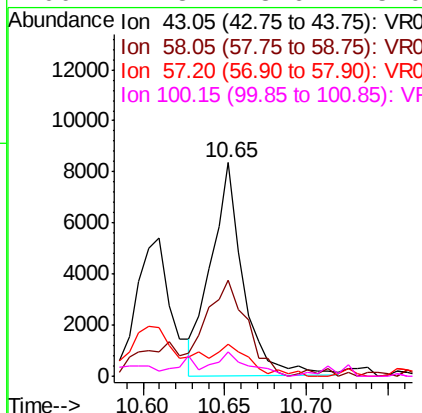
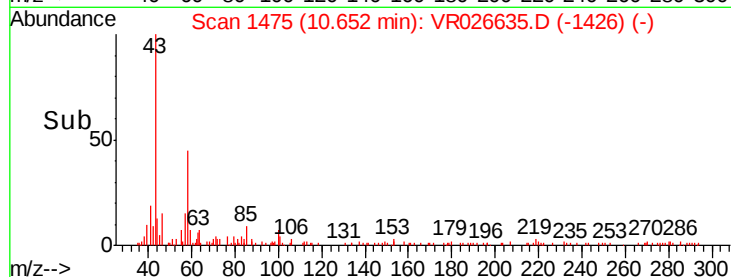
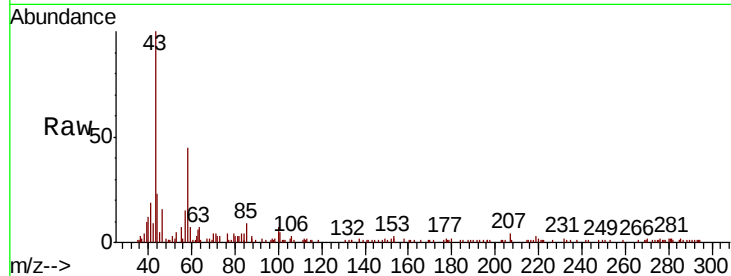
#48
2-Hexanone
Concen: 3.016 ug/L
RT: 10.65 min Scan# 1475
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampleId :
MDL01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	58.3	46.4	69.6
57	15.7	16.7	25.1#
100	11.8	8.6	13.0

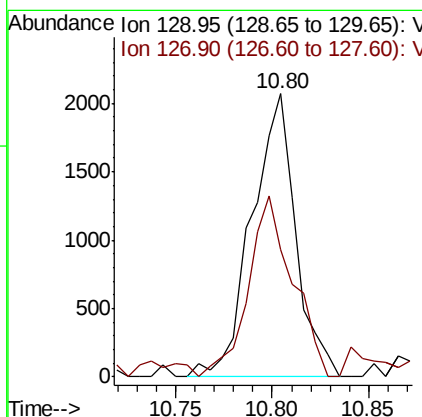
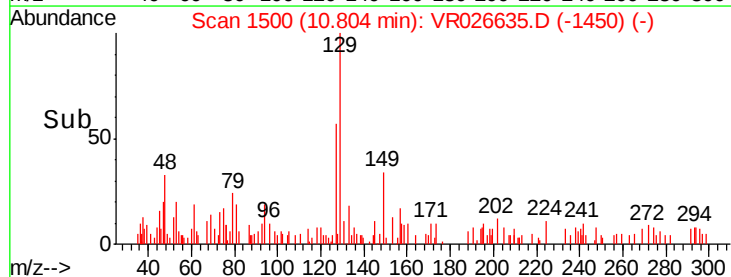
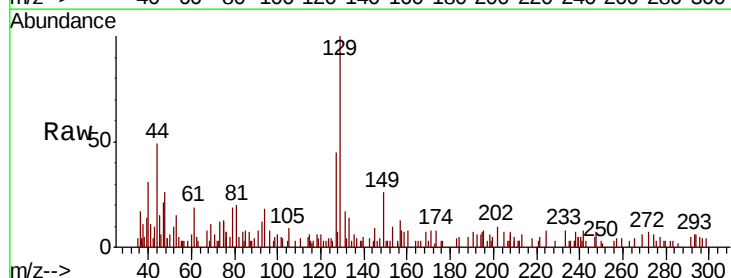
Manual Integrations
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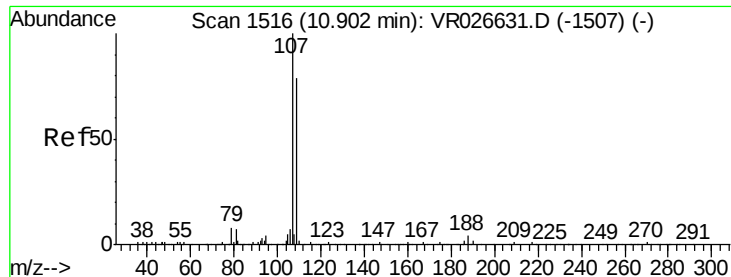
MMDadoda
9/16/2019 12:45:00 AM



#49
Dibromochloromethane
Concen: 0.299 ug/L m
RT: 10.80 min Scan# 1500
Delta R.T. 0.01 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Lower	Upper
129	100		
127	44.7	57.0	105.9#





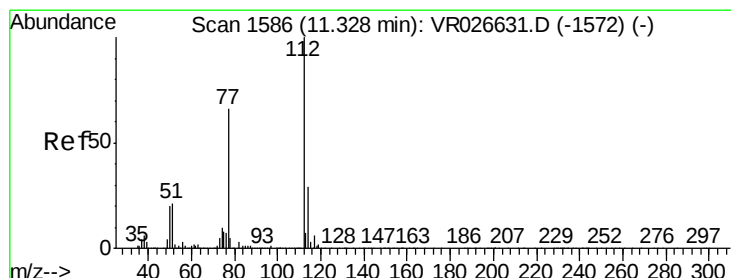
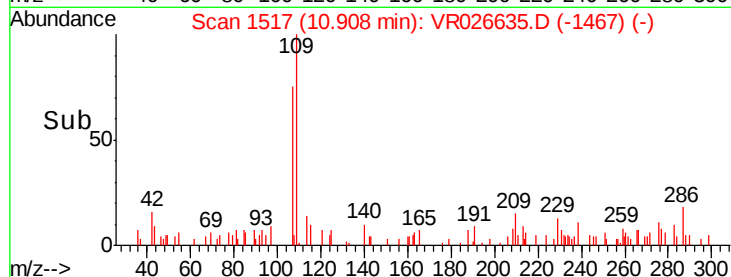
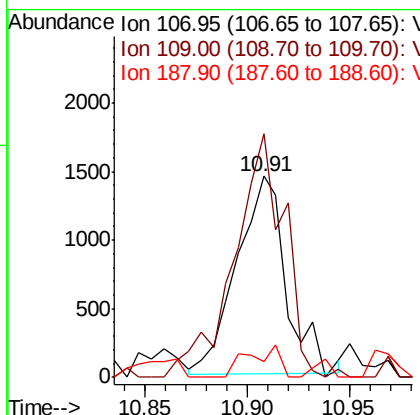
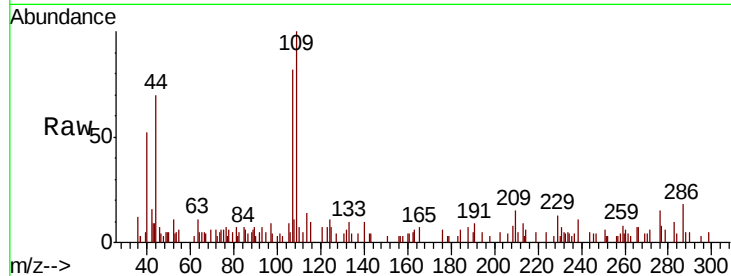
#50
1,2-Dibromoethane
Concen: 0.275 ug/L
RT: 10.91 min Scan# 1517
Delta R.T. 0.01 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampleId :
MDL01

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	2420		
109	121.2	67.2	124.8	
188	8.1	1.8	2.8	

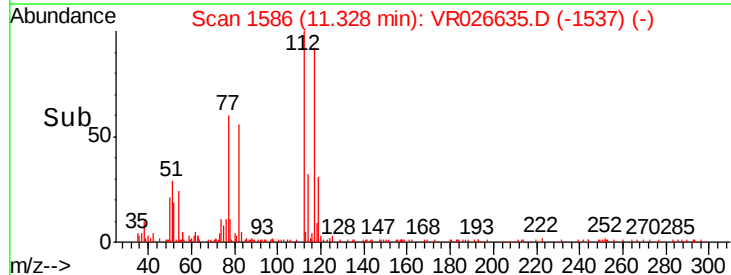
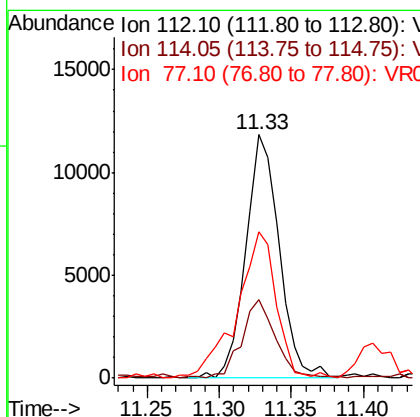
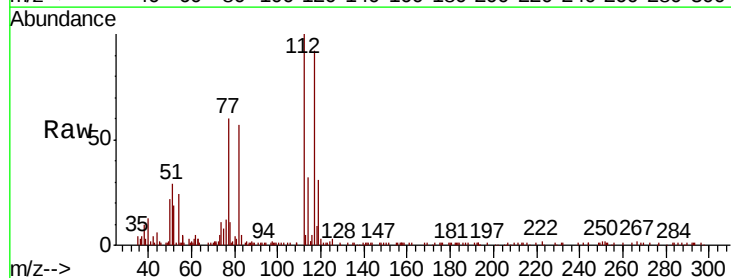
Manual Integrations
APPROVED

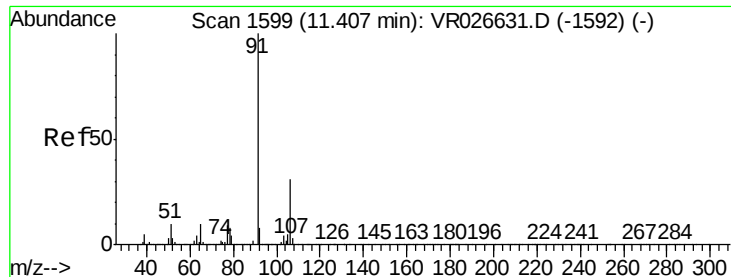
MMDadoda
9/16/2019 12:45:00 AM



#51
Chlorobenzene
Concen: 0.317 ug/L
RT: 11.33 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	18962		
114	32.3	22.7	42.1	
77	60.4	54.0	81.0	





#52

Ethylbenzene

Concen: 0.245 ug/L

RT: 11.41 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

ClientSampleId :

MDL01

Tgt Ion: 91 Resp: 28593

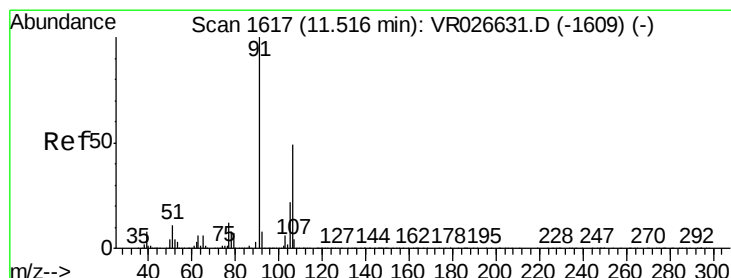
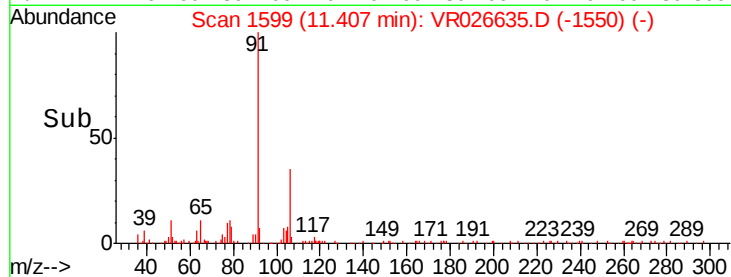
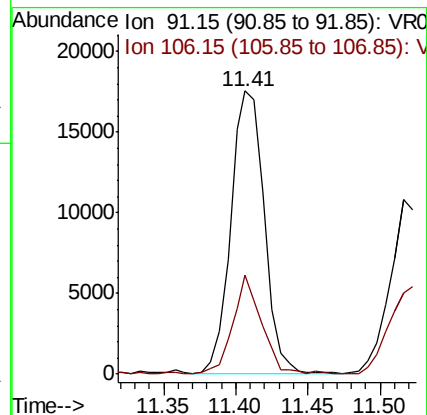
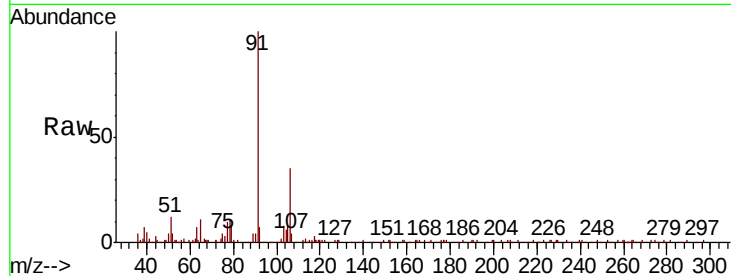
Ion Ratio Lower Upper

91 100

106 34.9 21.0 39.0

Manual Integrations
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9/16/2019 12:45:00 AM



#53

m,p-Xylene

Concen: 0.234 ug/L

RT: 11.52 min Scan# 1618

Delta R.T. 0.01 min

Lab File: VR026635.D

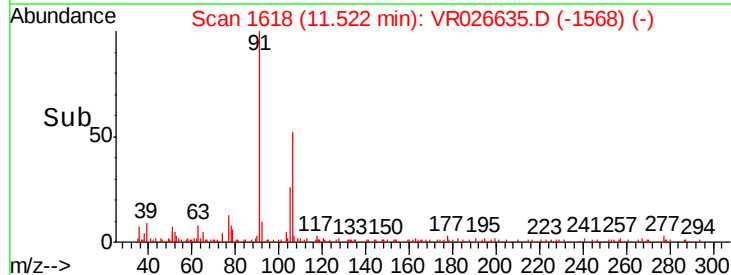
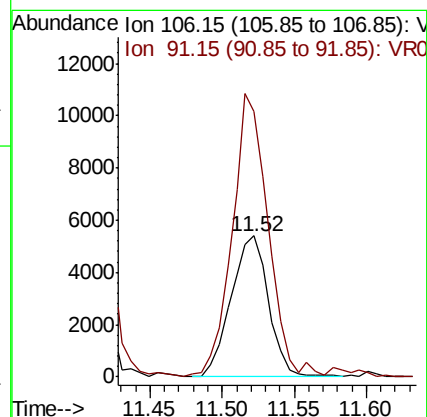
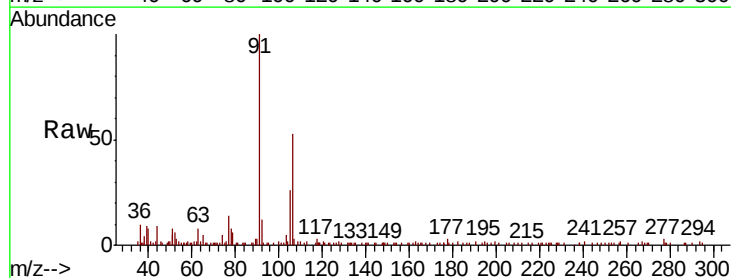
Acq: 13 Sep 2019 16:48

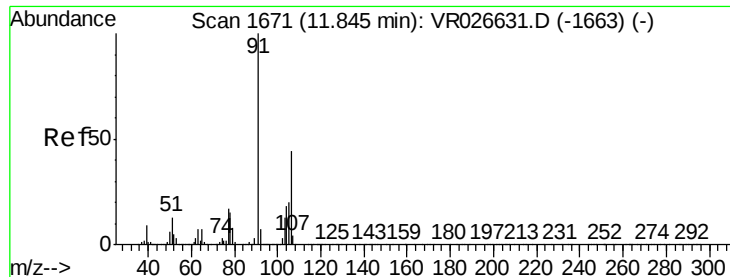
Tgt Ion: 106 Resp: 9774

Ion Ratio Lower Upper

106 100

91 188.2 146.5 272.1





#54

o-Xylene

Concen: 0.204 ug/L

RT: 11.84 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

ClientSampled :

MDL01

Tgt Ion:106 Resp: 8408

Ion Ratio Lower Upper

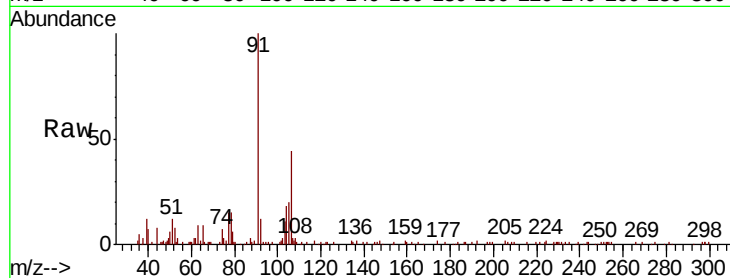
106 100

91 209.0 154.3 286.5

Manual Integrations
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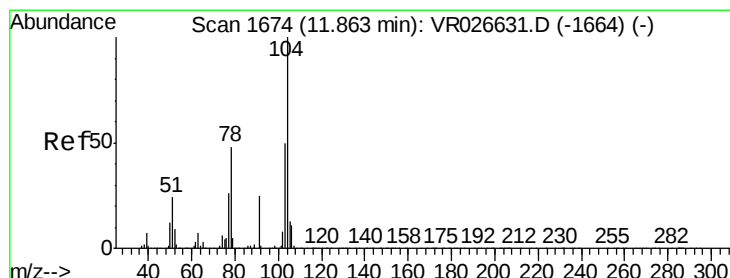
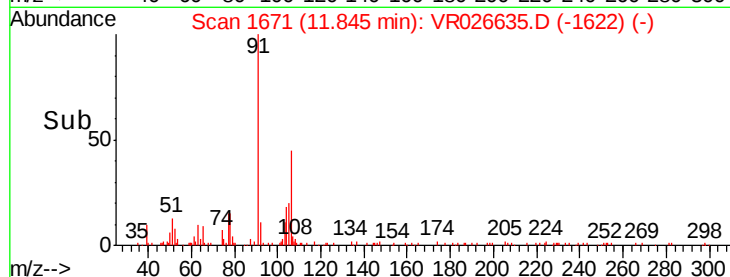
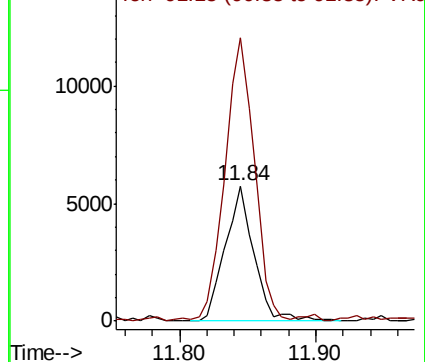
MMDadoda

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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#55

Styrene

Concen: 0.203 ug/L

RT: 11.86 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VR026635.D

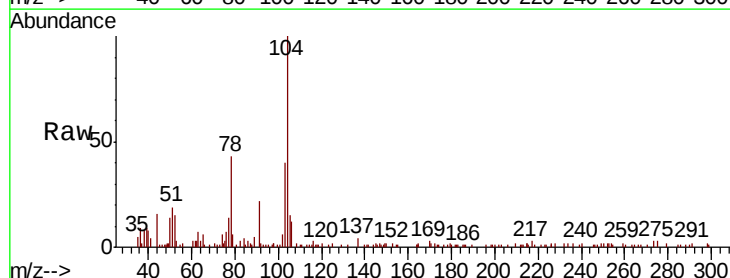
Acq: 13 Sep 2019 16:48

Tgt Ion:104 Resp: 11976

Ion Ratio Lower Upper

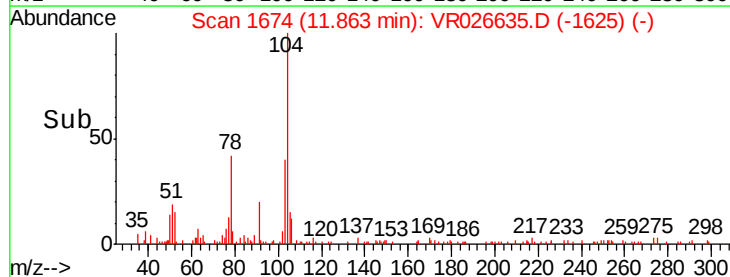
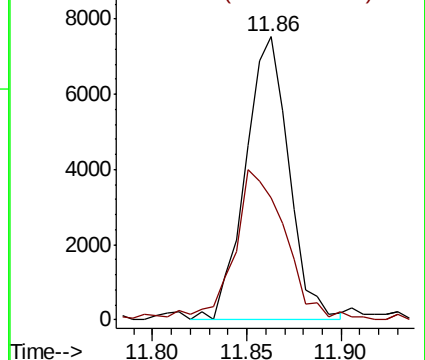
104 100

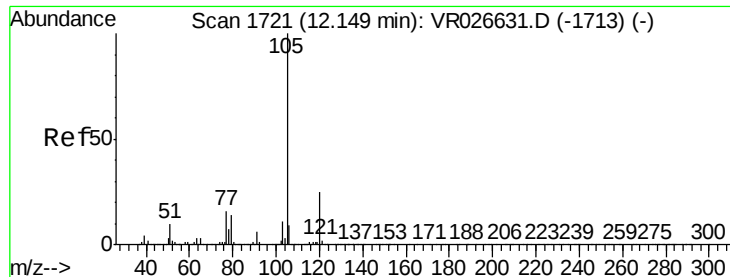
78 43.2 32.5 60.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VR0





#56

Isopropylbenzene

Concen: 0.213 ug/L

RT: 12.14 min Scan# 1720

Delta R.T. -0.01 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

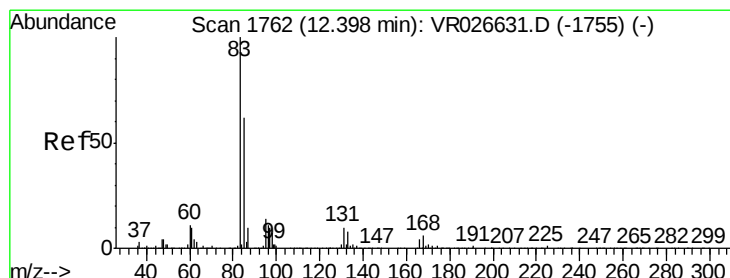
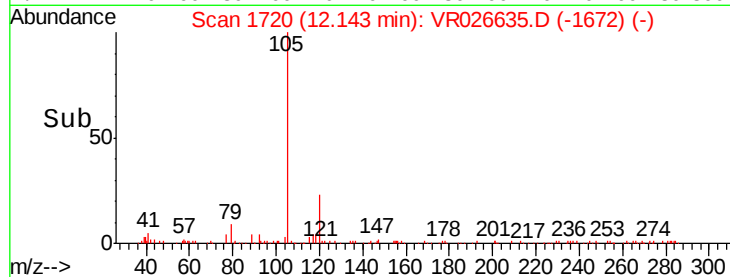
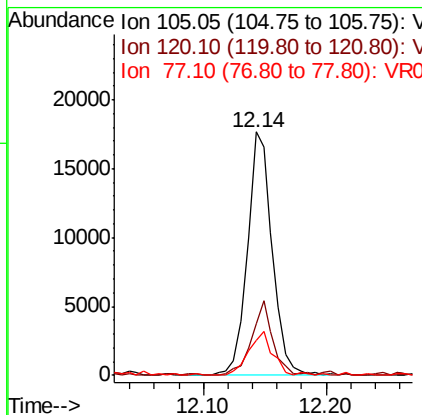
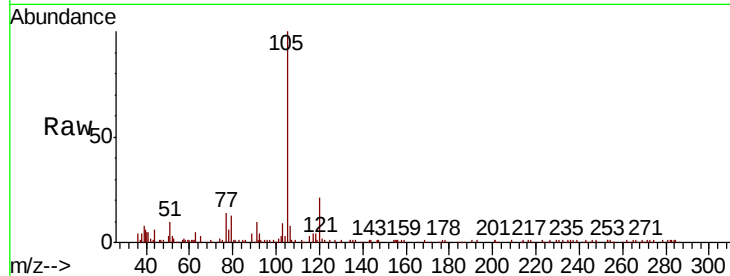
ClientSampleId :

MDL01

Tgt Ion:	105	Resp:	24854
Ion Ratio	Lower	Upper	
105	100		
120	26.5	20.7	31.1
77	17.1	13.3	19.9

Manual Integrations
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9/16/2019 12:45:00 AM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.336 ug/L

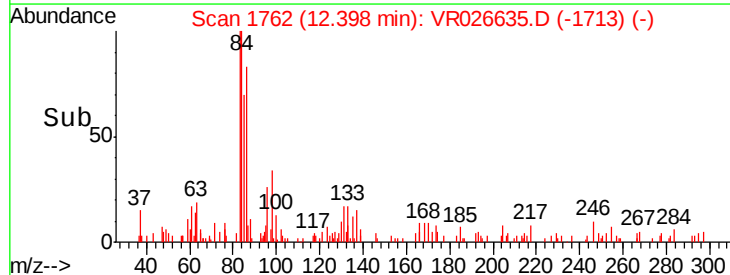
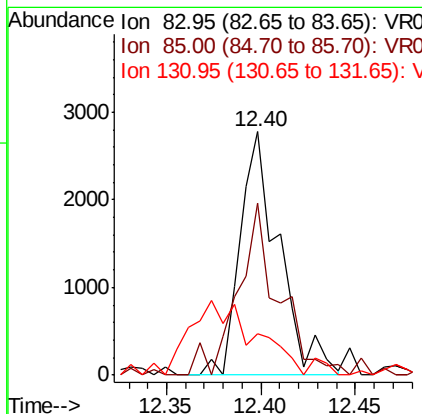
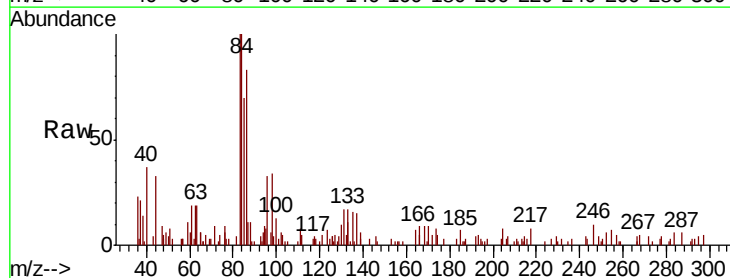
RT: 12.40 min Scan# 1762

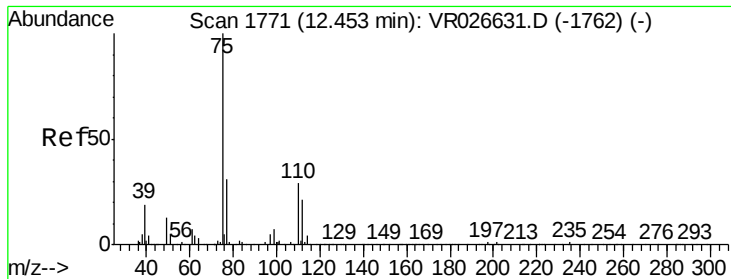
Delta R.T. -0.00 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Tgt Ion:	83	Resp:	3945
Ion Ratio	Lower	Upper	
83	100		
85	70.4	46.1	85.7
131	17.1	6.8	10.2#





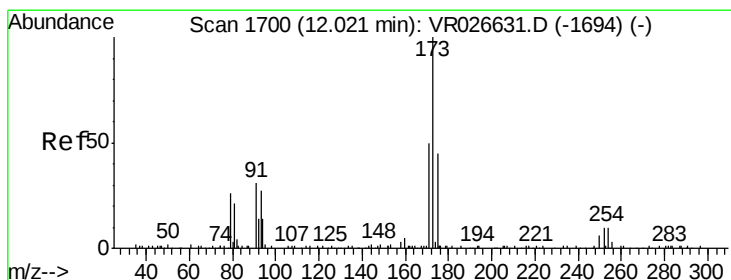
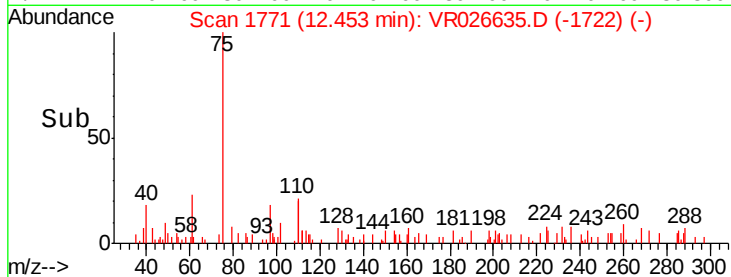
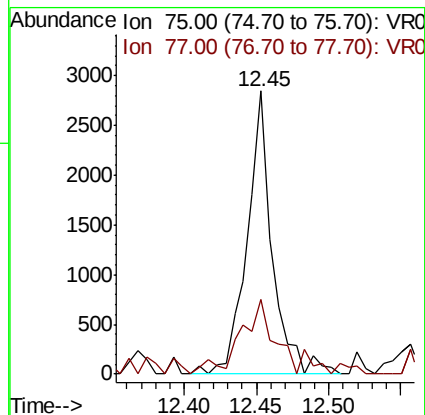
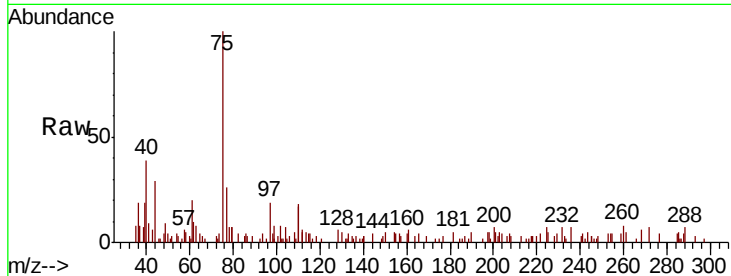
#59
 1,2,3-Trichloropropane
 Concen: 0.400 ug/L
 RT: 12.45 min Scan# 1771
 Delta R.T. -0.00 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL01

Tgt Ion	Ratio	Lower	Upper
75	100		
77	35.1	25.8	38.6

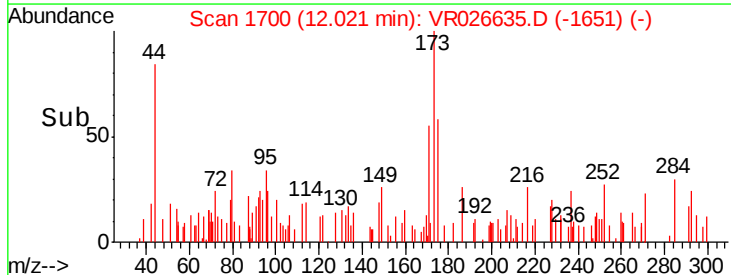
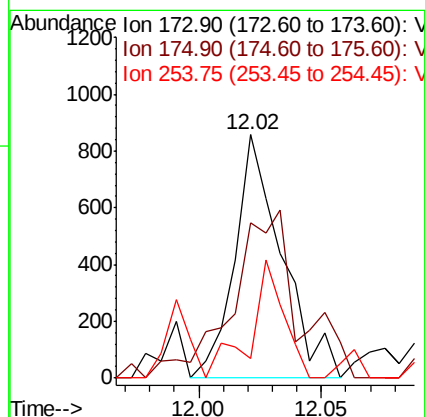
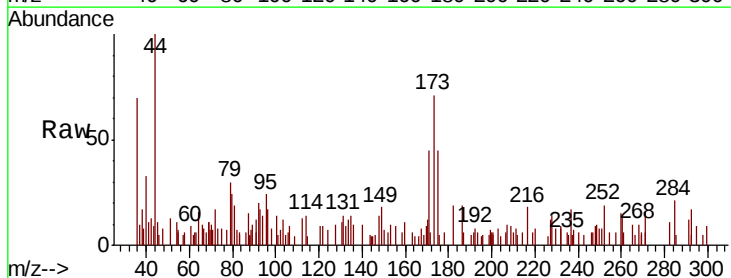
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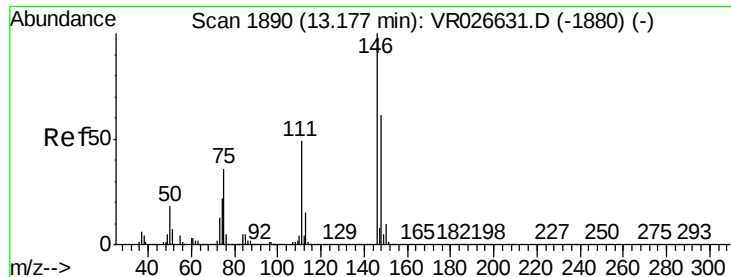
MMDadoda
 9/16/2019 12:45:00 AM



#61
 Bromoform
 Concen: 0.257 ug/L
 RT: 12.02 min Scan# 1700
 Delta R.T. -0.00 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Lower	Upper
173	100		
175	99.2	40.2	60.2#
254	34.8	8.7	13.1#





#62

1,3-Dichlorobenzene

Concen: 0.282 ug/L

RT: 13.18 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Instrument :

MSVOA_R

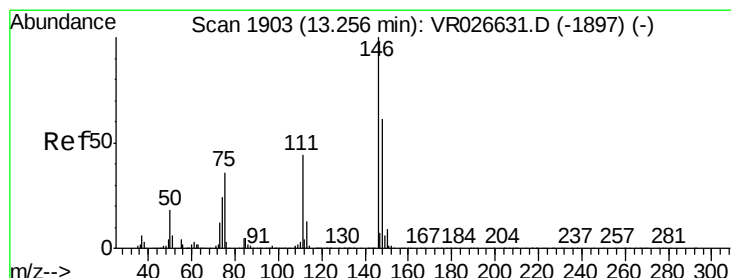
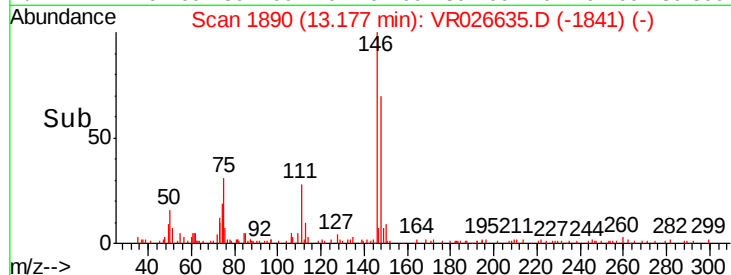
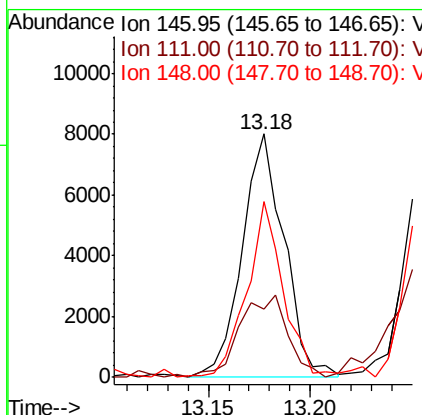
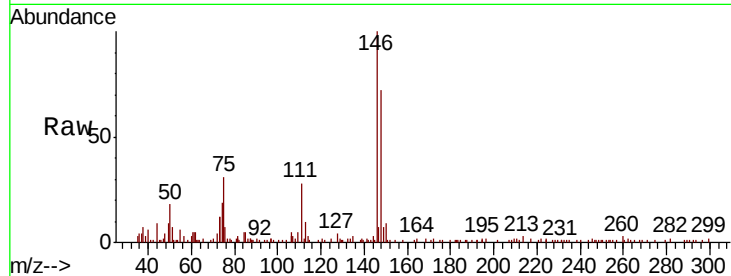
ClientSampled :

MDL01

Tgt Ion:	146	Resp:	11431
Ion Ratio	Lower	Upper	
146	100		
111	27.9	29.5	54.9#
148	72.3	42.8	79.4

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#63

1,4-Dichlorobenzene

Concen: 0.306 ug/L

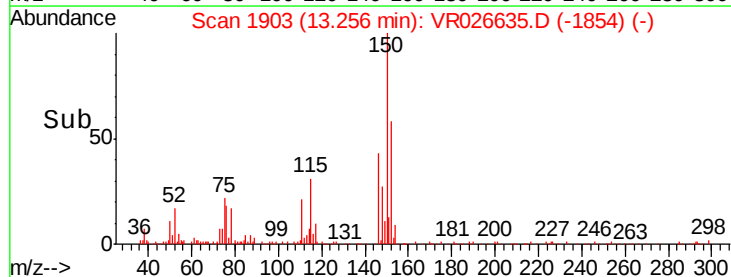
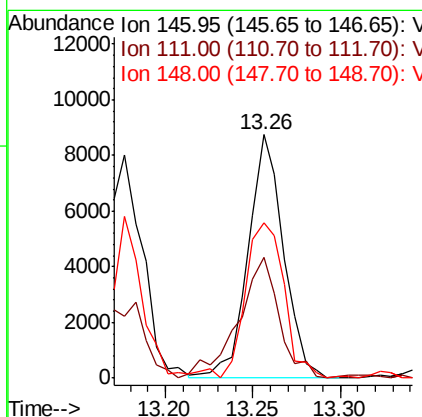
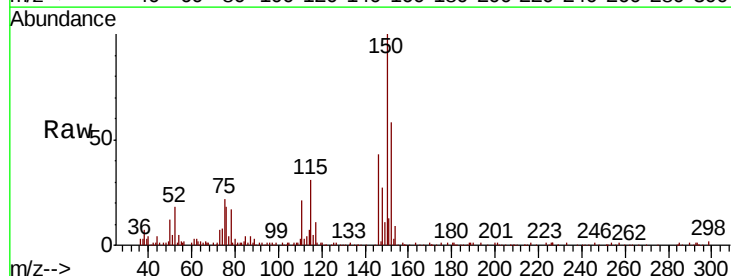
RT: 13.26 min Scan# 1903

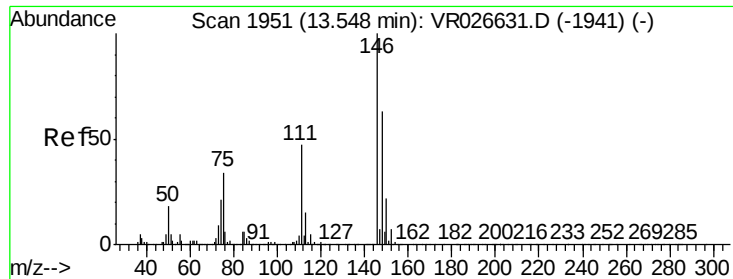
Delta R.T. -0.00 min

Lab File: VR026635.D

Acq: 13 Sep 2019 16:48

Tgt Ion:	146	Resp:	12321
Ion Ratio	Lower	Upper	
146	100		
111	49.4	31.1	57.9
148	64.0	44.6	82.8





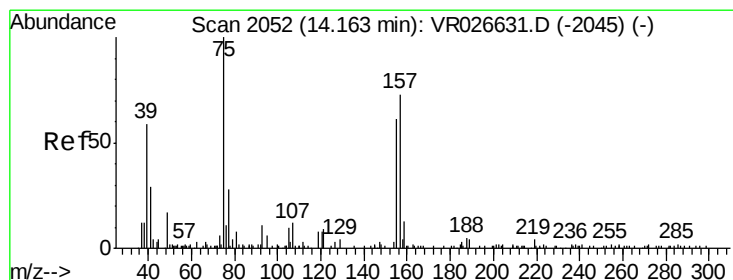
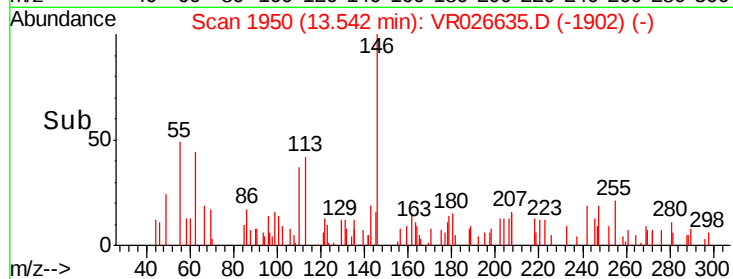
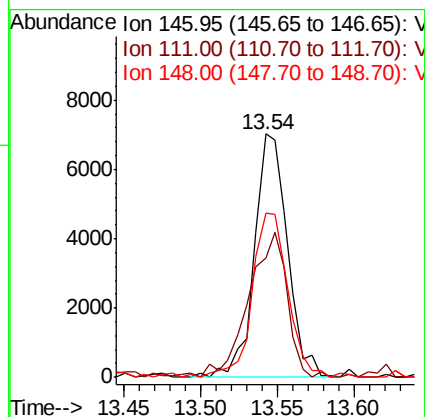
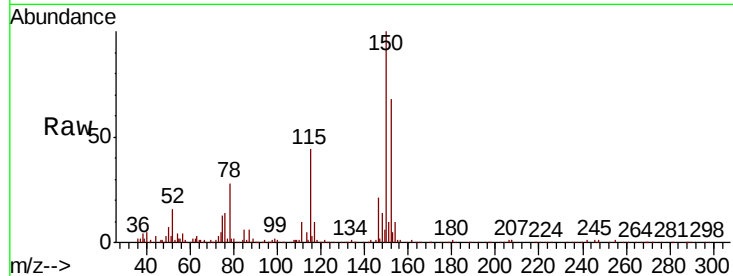
#65
 1,2-Dichlorobenzene
 Concen: 0.309 ug/L
 RT: 13.54 min Scan# 1950
 Delta R.T. -0.01 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	10604		
111	49.0	38.2	57.2	
148	67.4	50.1	75.1	

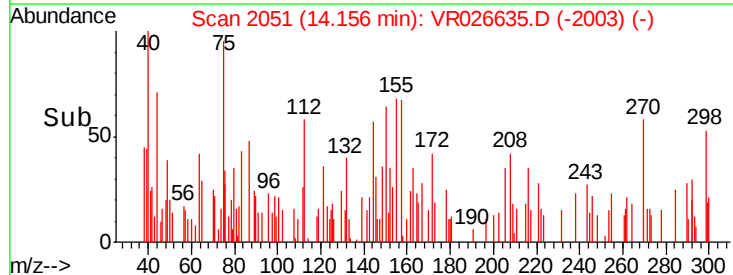
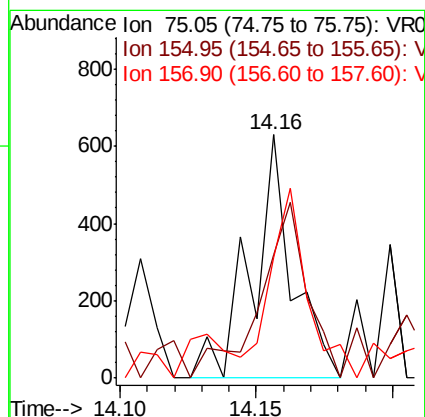
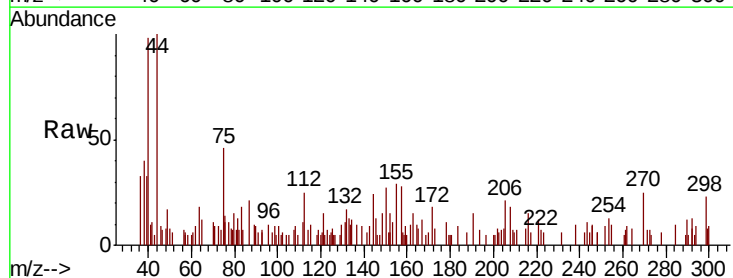
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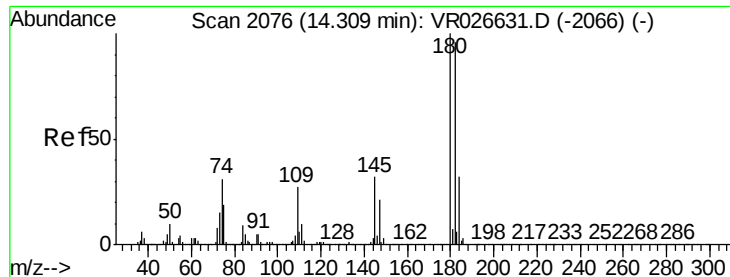
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.377 ug/L
 RT: 14.16 min Scan# 2051
 Delta R.T. -0.01 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	645		
155	50.5	49.4	74.2	
157	49.8	65.2	97.8#	





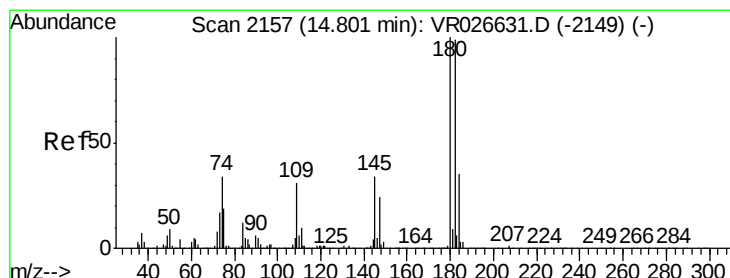
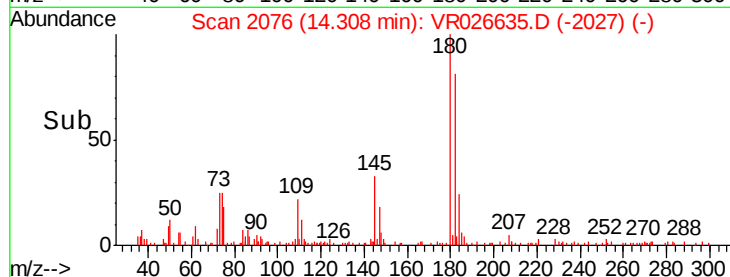
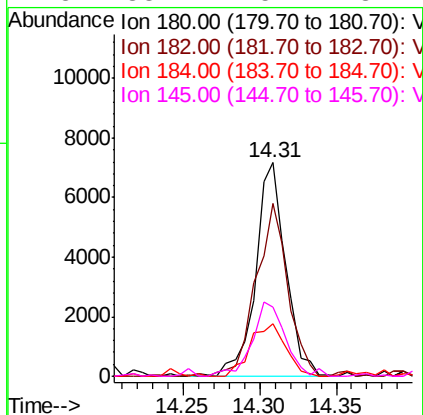
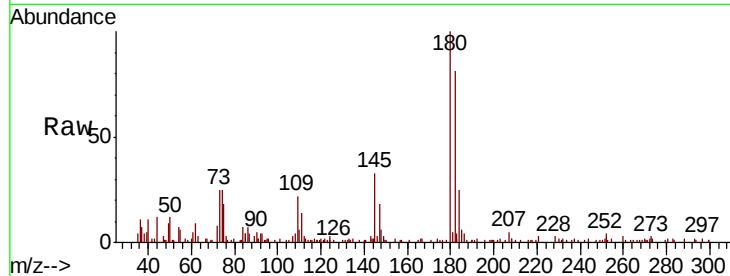
#67
 1,3,5-Trichlorobenzene
 Concen: 0.300 ug/L
 RT: 14.31 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Instrument :
 MSVOA_R
 ClientSampleID :
 MDL01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	9850		
182	85.5	76.3	114.5	
184	28.6	24.4	36.6	
145	38.2	25.1	37.7	

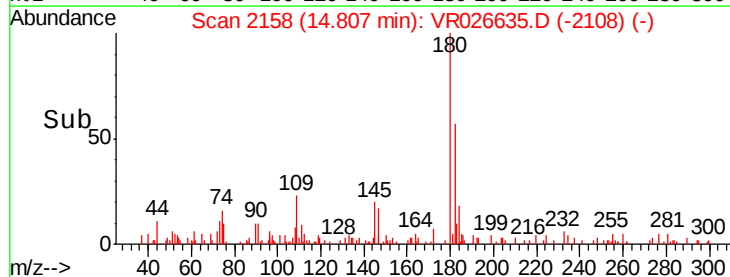
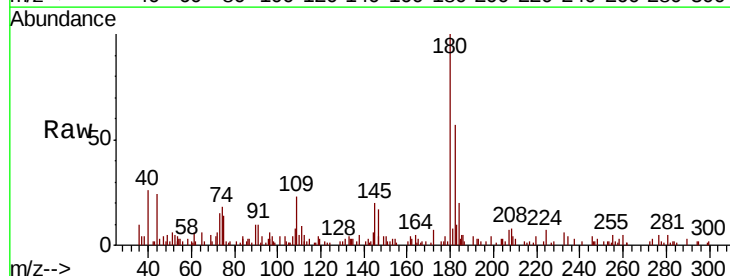
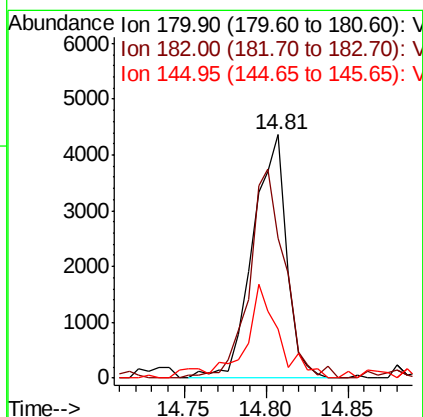
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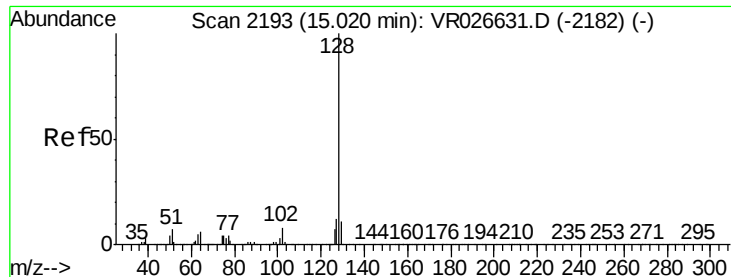
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 9/16/2019 12:45:00 AM



#68
 1,2,4-trichlorobenzene
 Concen: 0.270 ug/L
 RT: 14.81 min Scan# 2158
 Delta R.T. 0.01 min
 Lab File: VR026635.D
 Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	6254		
182	90.1	75.1	112.7	
145	36.2	25.9	38.9	





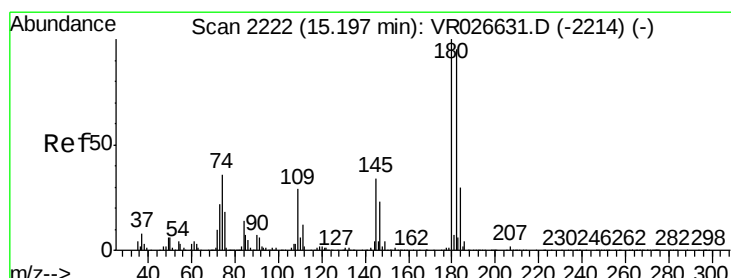
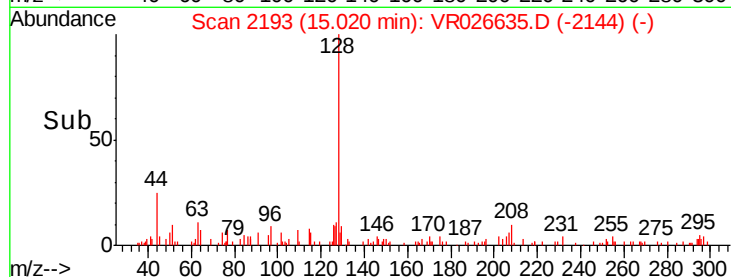
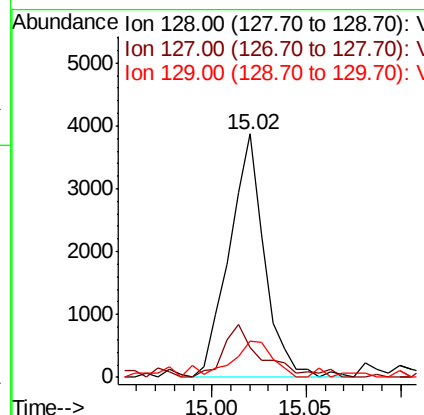
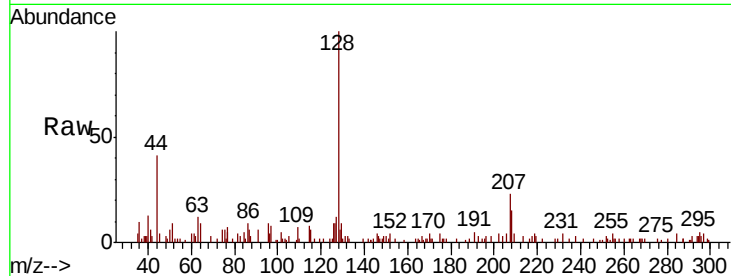
#69
Naphthalene
Concen: 0.163 ug/L
RT: 15.02 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Instrument :
MSVOA_R
ClientSampled :
MDL01

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	23.8	10.8	16.2#
129	18.1	8.9	13.3#

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#70
1,2,3-Trichlorobenzene
Concen: 0.319 ug/L
RT: 15.20 min Scan# 2222
Delta R.T. -0.00 min
Lab File: VR026635.D
Acq: 13 Sep 2019 16:48

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	89.7	76.2	114.4
145	33.0	28.6	42.8

