

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR091319\
 Data File : VR026636.D
 Acq On : 13 Sep 2019 17:20
 Operator : SY/MD
 Sample : MDL02
 Misc : 25mL/MSVOA_R/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 12:45:01 AM

Quant Time: Sep 14 07:08:51 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	318944	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.30	117	258208	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.24	152	115587	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.19	65	38458	4.39	ug/L	0.01
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.80%
7) Chloroethane-d5	2.63	69	37409	4.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.60%
11) 1,1-Dichloroethene-d2	3.63	63	79503	3.28	ug/L	-0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.60%
20) 2-Butanone-d5	6.62	46	91507	48.14	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.28%
24) Chloroform-d	7.22	84	171699	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	7.91	65	57241	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.60%
32) Benzene-d6	7.87	84	301965	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	8.92	67	83341	4.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.80%
41) Toluene-d8	9.99	98	224469	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
43) trans-1,3-Dichloropropene-	10.25	79	16329	4.20	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.00%
46) 2-Hexanone-d5	10.61	63	57513	49.15	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.30%
57) 1,1,2,2-Tetrachloroethane-	12.37	84	45205	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	13.53	152	76698	5.23	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	11445	0.317 ug/L	99
3) Chloromethane	2.06	50	6566	0.349 ug/L #	81
5) Vinyl chloride	2.20	62	5353	0.284 ug/L #	64
6) Bromomethane	2.54	94	4552	0.384 ug/L #	61
8) Chloroethane	2.65	64	4327m	0.398 ug/L	
9) Trichlorofluoromethane	2.96	101	10583m	0.324 ug/L	
10) 1,1,2-Trichloro-1,2,2-trif	3.67	101	5529m	0.387 ug/L	
12) 1,1-Dichloroethene	3.63	96	5883m	0.418 ug/L	
13) Acetone	3.74	43	5677	3.972 ug/L	85
14) Carbon disulfide	3.98	76	15469	0.257 ug/L #	86
15) Methyl Acetate	4.22	43	1906	0.318 ug/L #	64
16) Methylene chloride	4.42	84	13694	0.468 ug/L	80
17) Methyl tert-butyl Ether	4.93	73	7239m	0.238 ug/L	
18) trans-1,2-Dichloroethene	4.92	96	9610	0.327 ug/L #	66
19) 1,1-Dichloroethane	5.72	63	17540	0.318 ug/L	98
21) 2-Butanone	6.73	43	8421m	3.225 ug/L	
22) cis-1,2-Dichloroethene	6.69	96	8313	0.295 ug/L	84

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Manual Integrations
 APPROVED

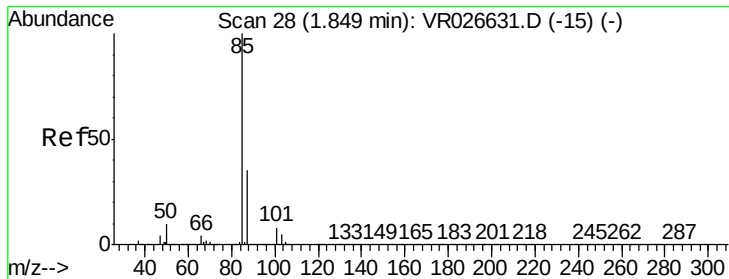
MMDadoda
 9/16/2019 12:45:01 AM

Quant Time: Sep 14 07:08:51 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)

23) Bromochloromethane	7.08	128	2595	0.331	ug/L #	61
25) Chloroform	7.25	83	22068	0.418	ug/L	86
27) 1,2-Dichloroethane	8.02	62	7466	0.402	ug/L #	91
29) 1,1,1-Trichloroethane	7.45	97	12100	0.291	ug/L	96
30) Cyclohexane	7.54	56	8316	0.188	ug/L #	84
31) Carbon tetrachloride	7.65	117	10736	0.305	ug/L	98
33) Benzene	7.93	78	35566m	0.311	ug/L	
34) Trichloroethene	8.73	95	8515	0.299	ug/L	88
35) Methylcyclohexane	8.98	83	10247	0.239	ug/L	93
37) 1,2-Dichloropropane	9.02	63	8396	0.363	ug/L #	96
38) Bromodichloromethane	9.30	83	7744	0.315	ug/L #	95
39) cis-1,3-Dichloropropene	9.74	75	7902	0.322	ug/L #	79
40) 4-Methyl-2-pentanone	9.88	43	12258	2.117	ug/L #	86
42) Toluene	10.05	91	29097	0.291	ug/L	94
44) trans-1,3-Dichloropropene	10.28	75	3904m	0.248	ug/L	
45) 1,1,2-Trichloroethane	10.46	97	3001	0.305	ug/L #	82
47) Tetrachloroethene	10.53	164	5578	0.331	ug/L	91
48) 2-Hexanone	10.65	43	11381	3.092	ug/L #	96
49) Dibromochloromethane	10.79	129	3209	0.299	ug/L	99
50) 1,2-Dibromoethane	10.90	107	2898	0.339	ug/L #	75
51) Chlorobenzene	11.33	112	18630	0.321	ug/L #	85
52) Ethylbenzene	11.41	91	28389	0.250	ug/L	94
53) m,p-Xylene	11.52	106	10472	0.258	ug/L	86
54) o-Xylene	11.84	106	7500	0.187	ug/L	97
55) Styrene	11.86	104	12514	0.218	ug/L	100
56) Isopropylbenzene	12.14	105	22804	0.202	ug/L	97
58) 1,1,2,2-Tetrachloroethane	12.40	83	4000	0.350	ug/L #	85
59) 1,2,3-Trichloropropane	12.45	75	2854	0.341	ug/L	93
61) Bromoform	12.02	173	2046	0.453	ug/L	88
62) 1,3-Dichlorobenzene	13.18	146	11606	0.282	ug/L	88
63) 1,4-Dichlorobenzene	13.26	146	13052	0.320	ug/L	91
65) 1,2-Dichlorobenzene	13.55	146	12011	0.345	ug/L	89
66) 1,2-Dibromo-3-chloropropan	14.16	75	448m	0.258	ug/L	
67) 1,3,5-Trichlorobenzene	14.31	180	9685	0.291	ug/L	93
68) 1,2,4-trichlorobenzene	14.80	180	6075	0.259	ug/L #	93
69) Naphthalene	15.02	128	5705	0.183	ug/L #	91
70) 1,2,3-Trichlorobenzene	15.20	180	6206	0.298	ug/L	91

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



#2

Dichlorodifluoromethane

Concen: 0.317 ug/L

RT: 1.85 min Scan# 28

Delta R.T. -0.00 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

ClientSampled :

MDL02

Tgt Ion: 85 Resp: 11445

Ion Ratio Lower Upper

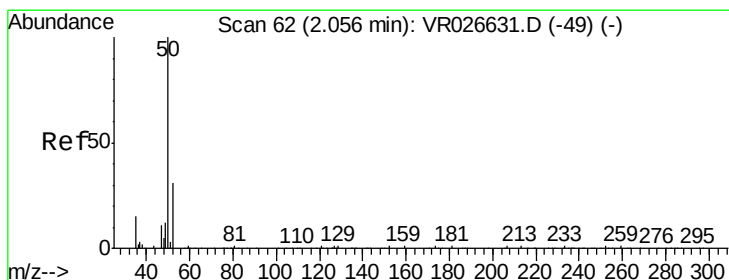
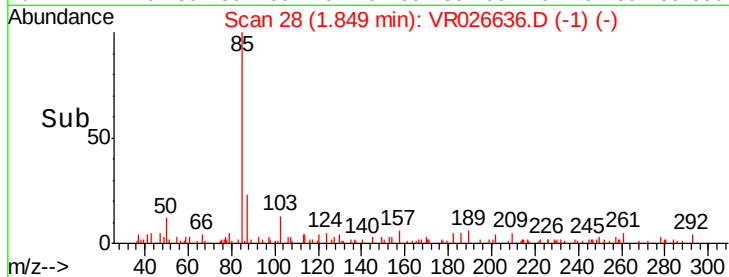
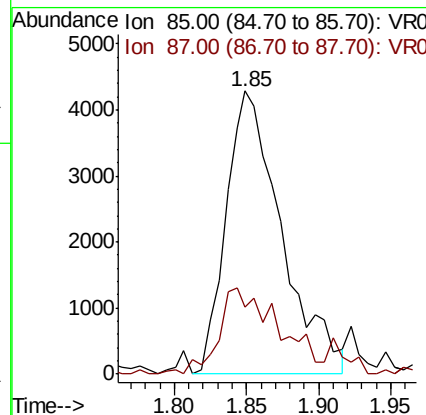
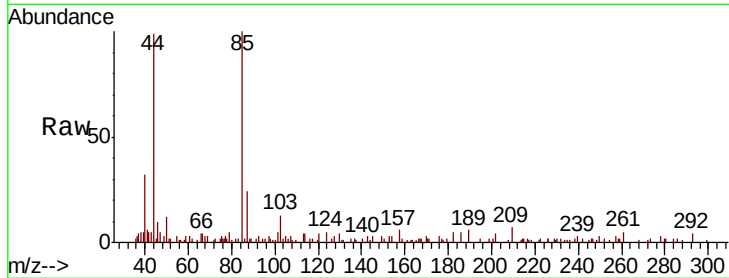
85 100

87 33.2 26.0 39.0

Manual Integrations
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#3

Chloromethane

Concen: 0.349 ug/L

RT: 2.06 min Scan# 63

Delta R.T. 0.01 min

Lab File: VR026636.D

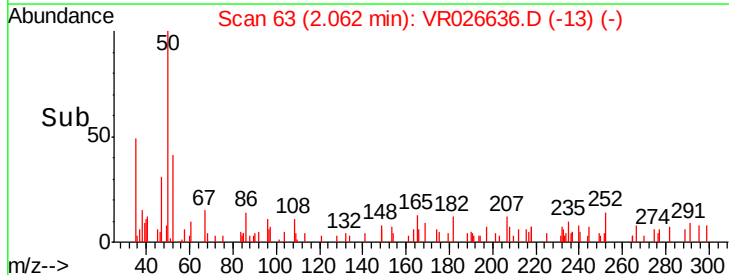
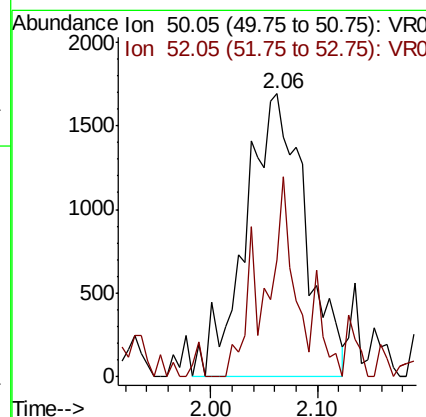
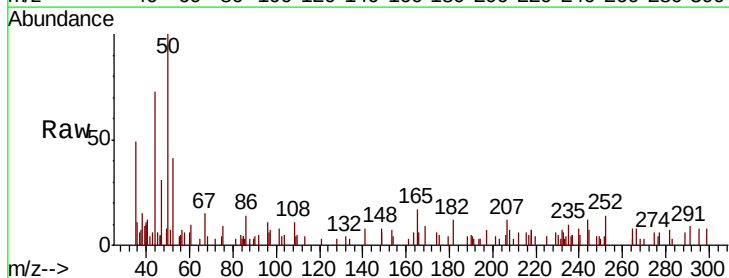
Acq: 13 Sep 2019 17:20

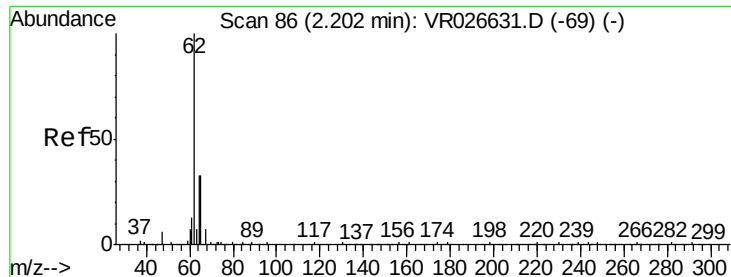
Tgt Ion: 50 Resp: 6566

Ion Ratio Lower Upper

50 100

52 41.5 21.7 40.3#





#5

Vinyl chloride

Concen: 0.284 ug/L

RT: 2.20 min Scan# 86

Delta R.T. -0.00 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

ClientSampleId :

MDL02

Tgt Ion: 62 Resp: 5353

Ion Ratio Lower Upper

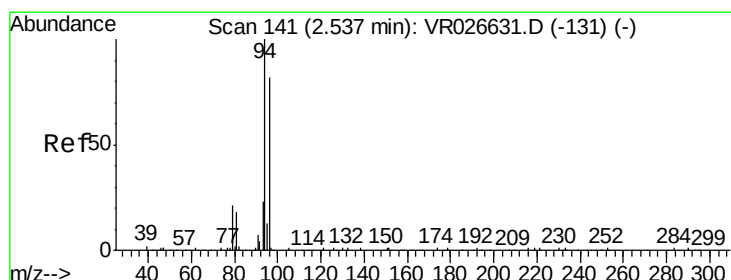
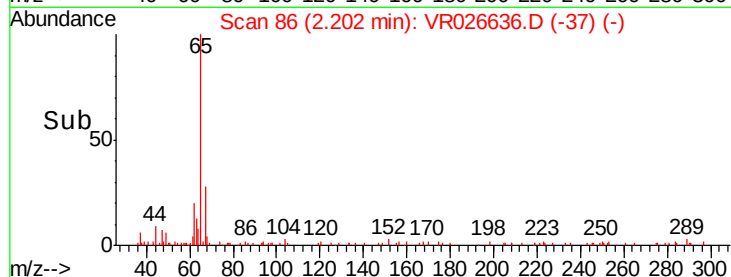
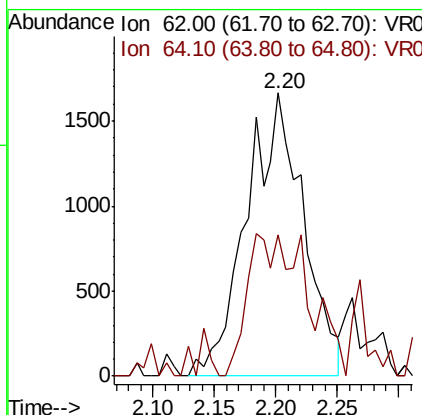
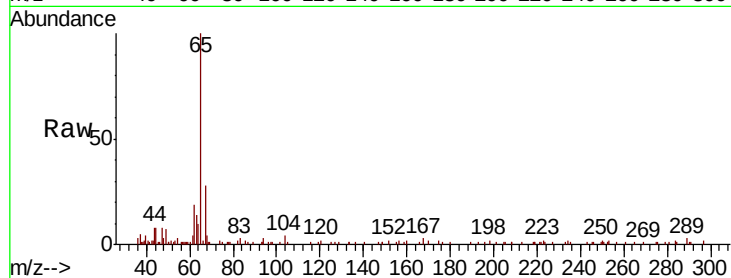
62 100

64 49.9 21.2 39.4#

Manual Integrations
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#6

Bromomethane

Concen: 0.384 ug/L

RT: 2.54 min Scan# 141

Delta R.T. -0.00 min

Lab File: VR026636.D

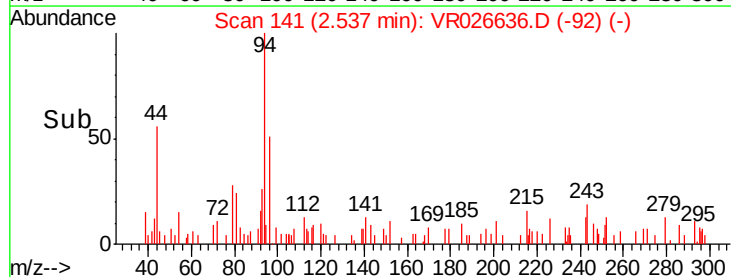
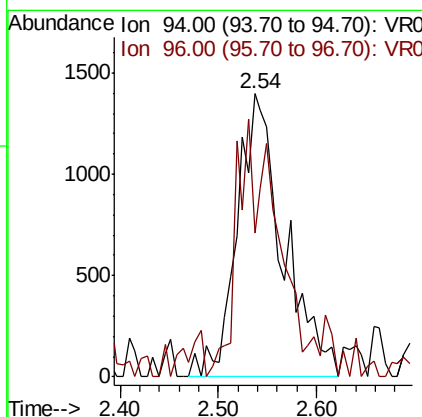
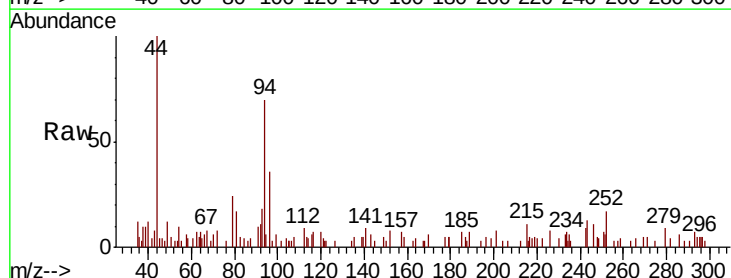
Acq: 13 Sep 2019 17:20

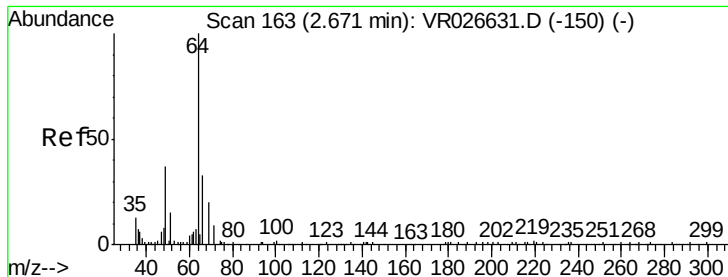
Tgt Ion: 94 Resp: 4552

Ion Ratio Lower Upper

94 100

96 50.9 61.0 113.4#





#8

Chloroethane

Concen: 0.398 ug/L m

RT: 2.65 min Scan# 160

Delta R.T. -0.02 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

ClientSampleId :

MDL02

Tgt Ion: 64 Resp: 4327

Ion Ratio Lower Upper

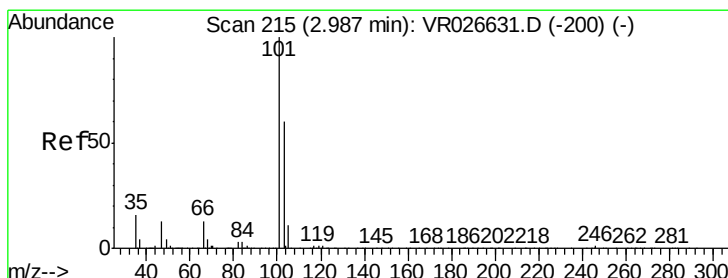
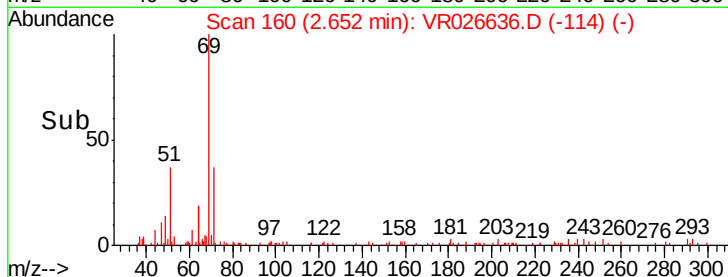
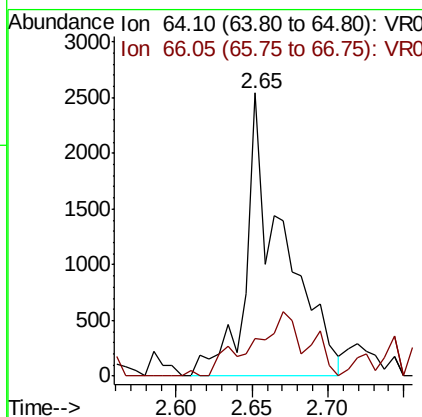
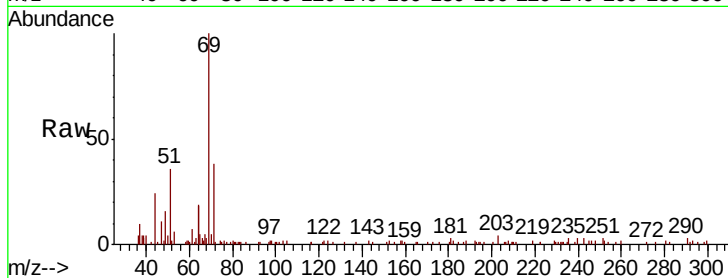
64 100

66 17.3 22.3 41.3#

Manual Integrations
APPROVED

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9/16/2019 12:45:01 AM



#9

Trichlorofluoromethane

Concen: 0.324 ug/L m

RT: 2.96 min Scan# 211

Delta R.T. -0.02 min

Lab File: VR026636.D

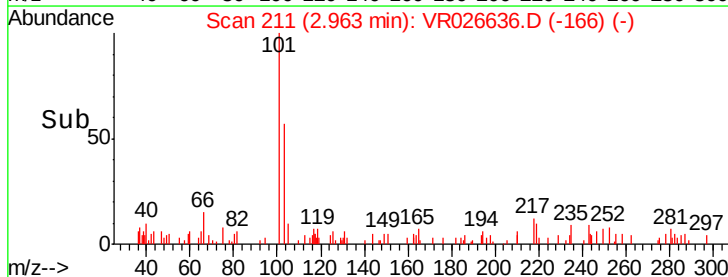
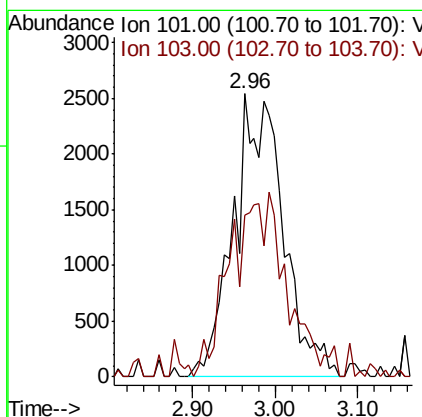
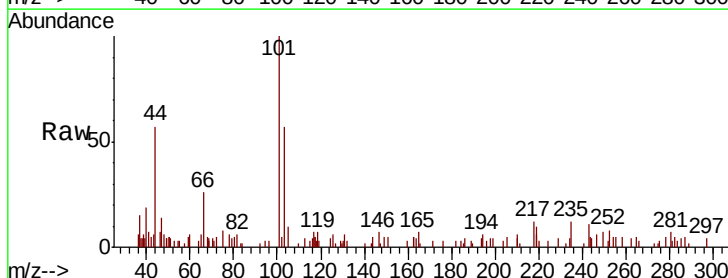
Acq: 13 Sep 2019 17:20

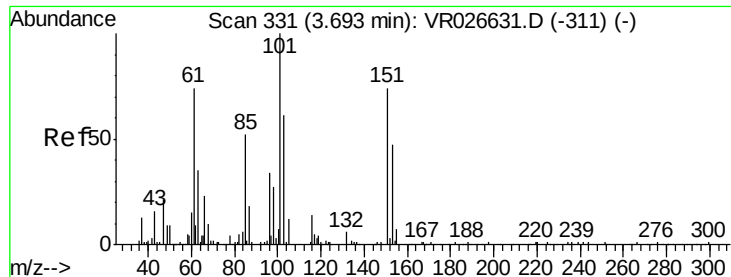
Tgt Ion: 101 Resp: 10583

Ion Ratio Lower Upper

101 100

103 1.1 50.9 76.3#





#10

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

Concen: 0.387 ug/L m

RT: 3.67 min Scan# 328

Delta R.T. -0.02 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

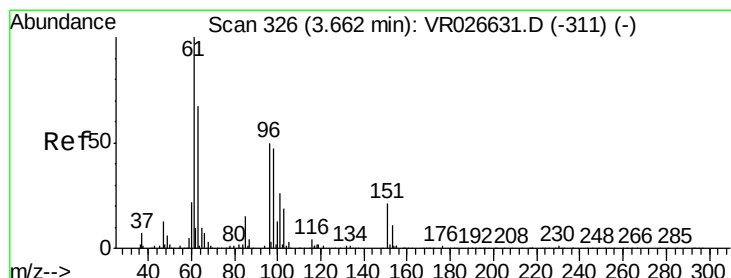
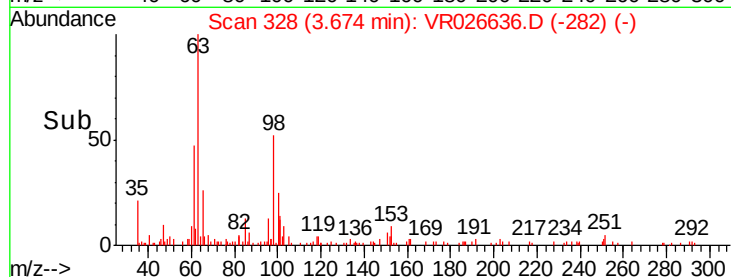
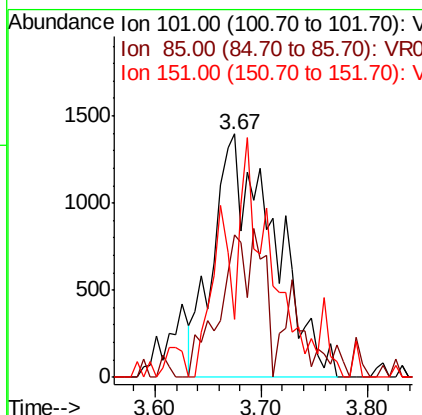
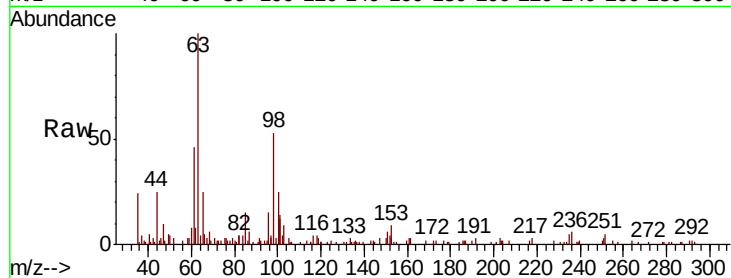
ClientSampled :

MDL02

Tgt Ion:	101	Resp:	5529
Ion Ratio	Lower	Upper	
101	100		
85	26.6	39.7	59.5#
151	21.7	58.4	87.6#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.418 ug/L m

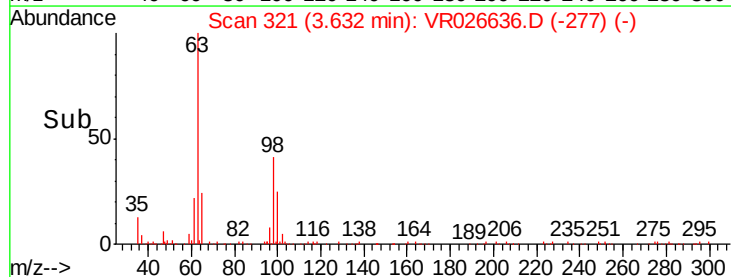
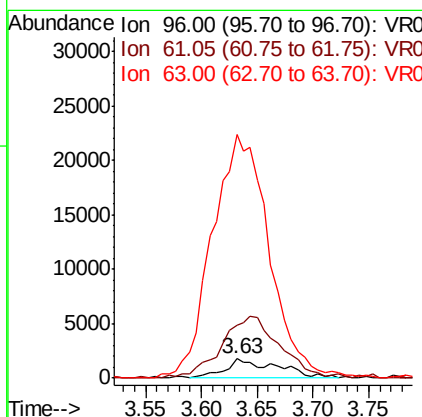
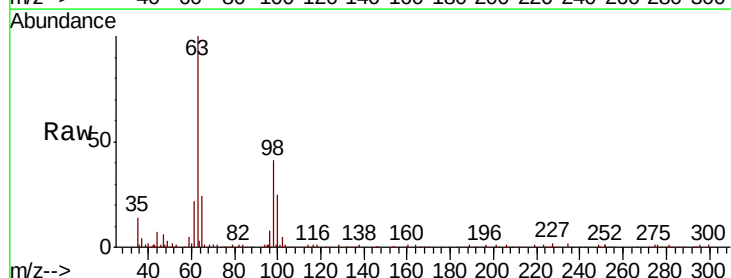
RT: 3.63 min Scan# 321

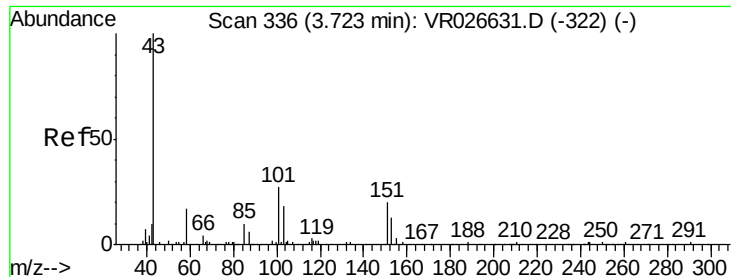
Delta R.T. -0.03 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Tgt Ion:	96	Resp:	5883
Ion Ratio	Lower	Upper	
96	100		
61	276.9	143.3	266.1#
63	1279.9	112.6	209.0#





#13

Acetone

Concen: 3.972 ug/L

RT: 3.74 min Scan# 338

Delta R.T. 0.01 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

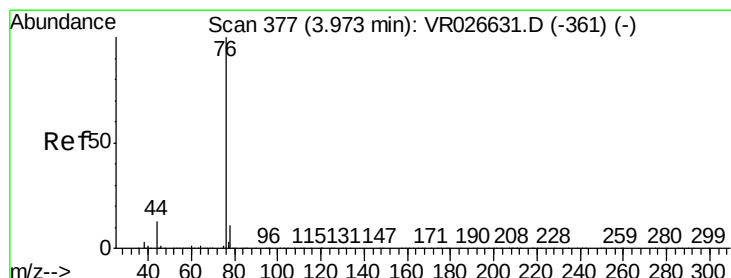
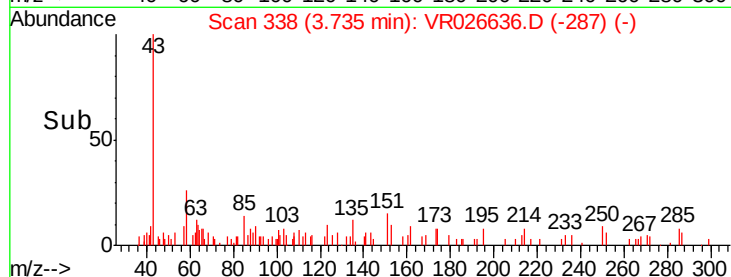
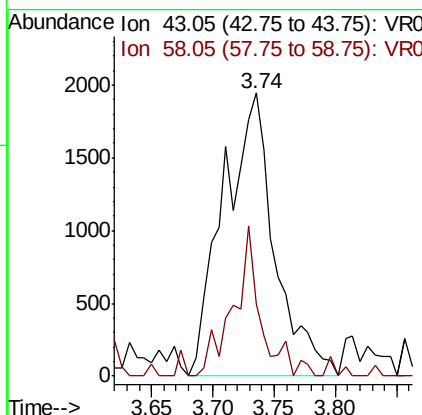
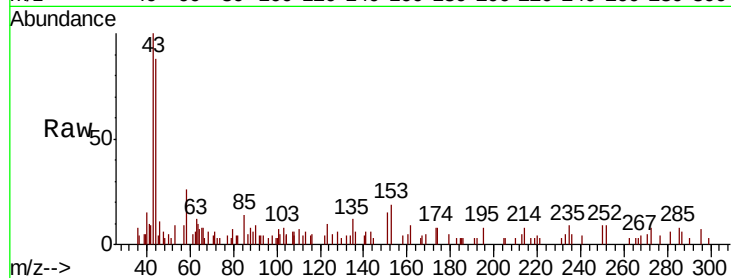
ClientSampled :

MDL02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.1	0.0	41.8

Manual Integrations
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9/16/2019 12:45:01 AM



#14

Carbon disulfide

Concen: 0.257 ug/L

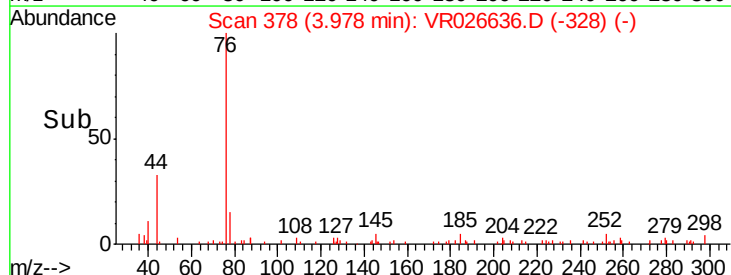
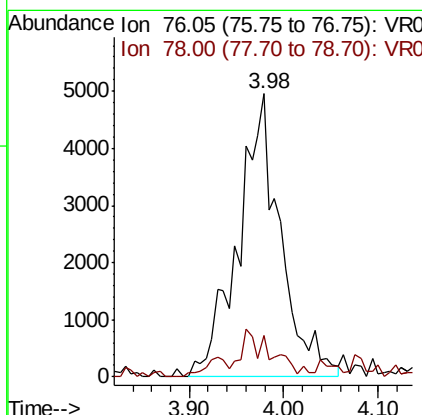
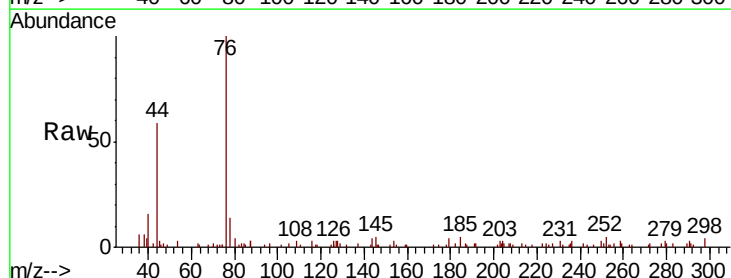
RT: 3.98 min Scan# 378

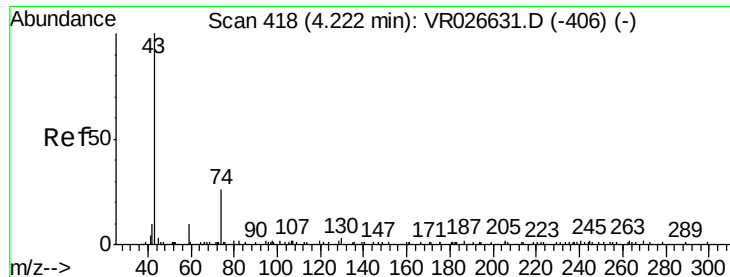
Delta R.T. 0.01 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Lower	Upper
76	100		
78	14.4	7.4	11.0#





#15

Methyl Acetate

Concen: 0.318 ug/L

RT: 4.22 min Scan# 417

Delta R.T. -0.01 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

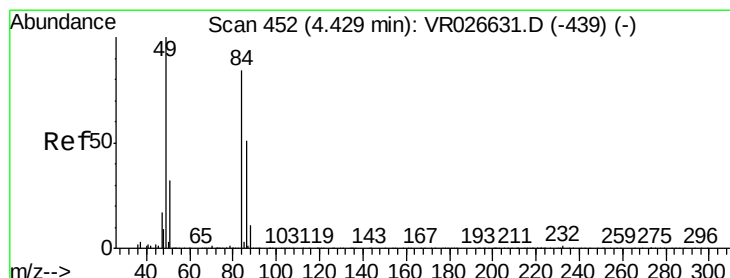
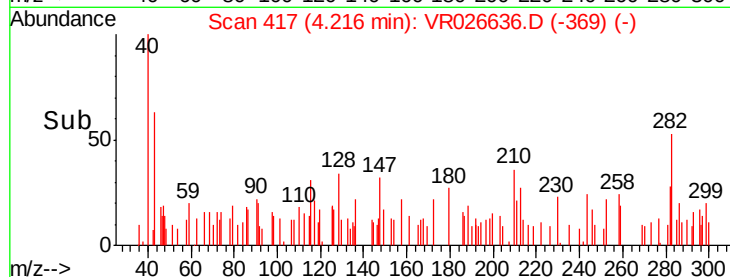
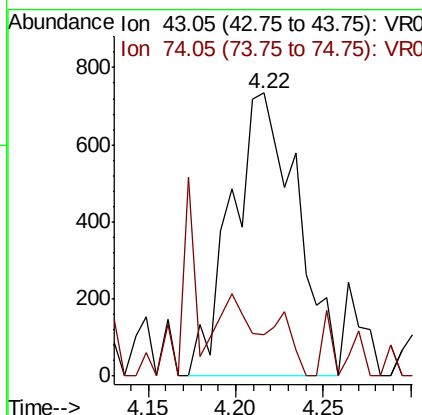
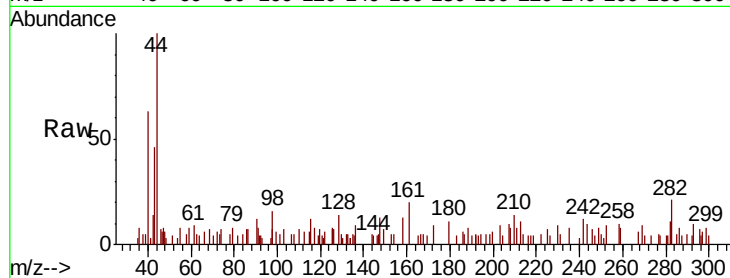
Instrument :
MSVOA_R
ClientSampled :
MDL02

Tgt Ion: 43 Resp: 1906

Ion	Ratio	Lower	Upper
43	100		
74	5.0	17.5	26.3#

Manual Integrations
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MMDadoda
9/16/2019 12:45:01 AM



#16

Methylene chloride

Concen: 0.468 ug/L

RT: 4.42 min Scan# 451

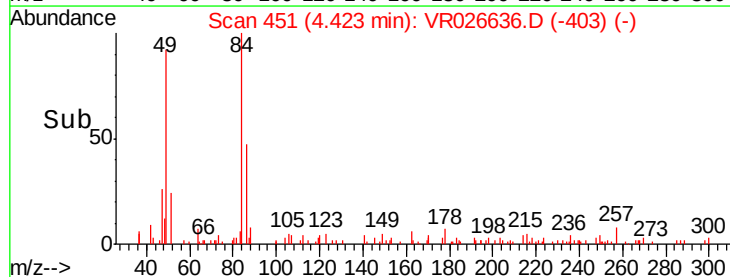
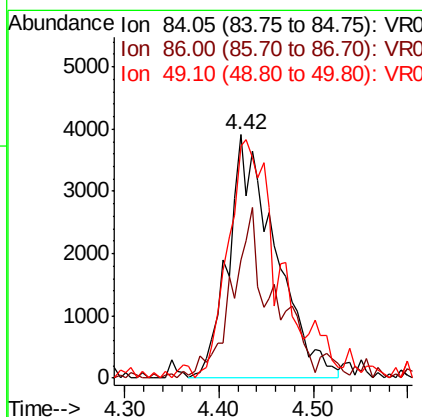
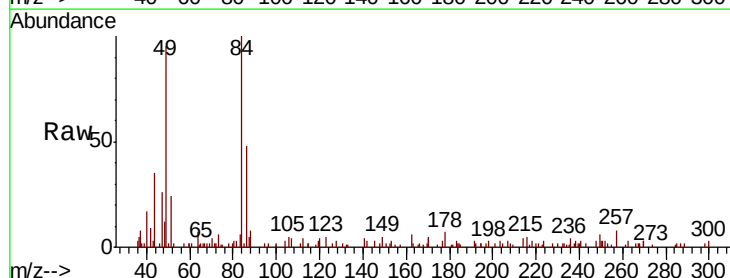
Delta R.T. -0.01 min

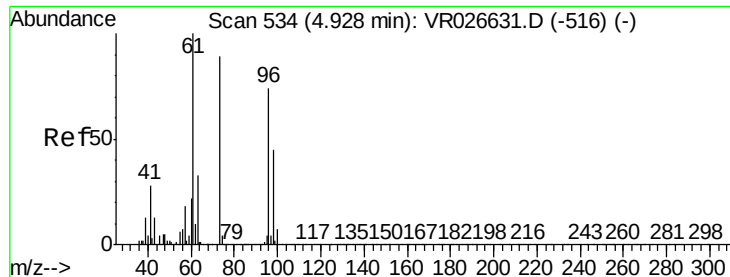
Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Tgt Ion: 84 Resp: 13694

Ion	Ratio	Lower	Upper
84	100		
86	48.4	44.2	82.0
49	95.2	82.3	152.9





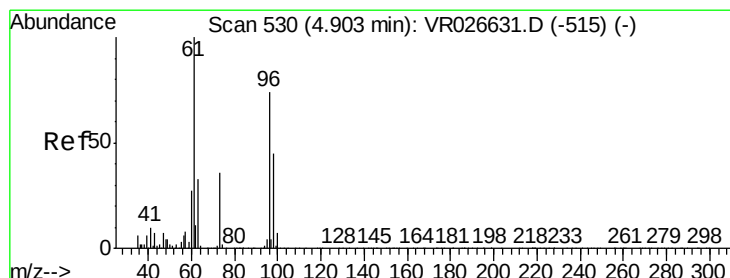
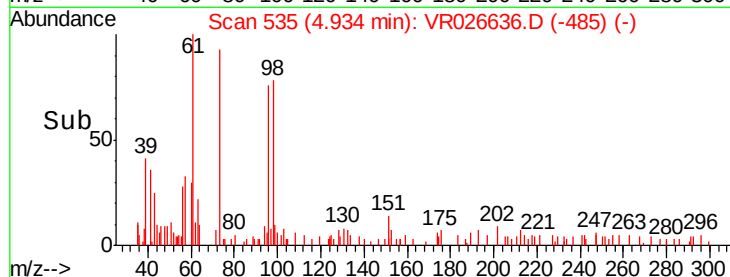
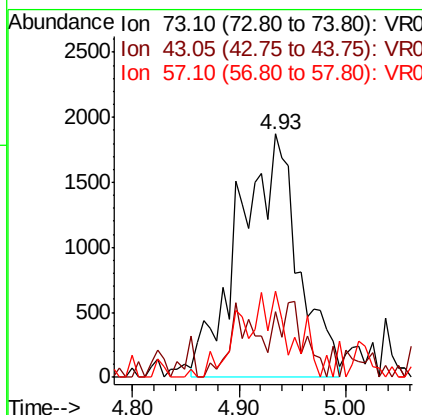
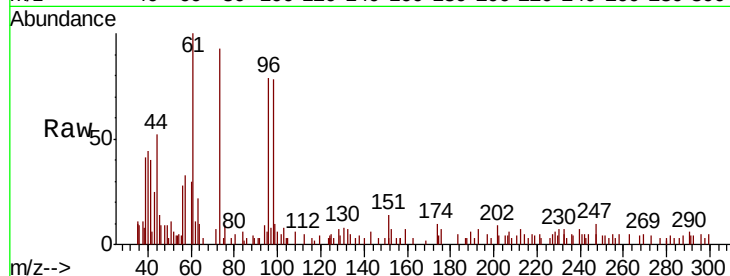
#17
Methyl tert-butyl Ether
Concen: 0.238 ug/L m
RT: 4.93 min Scan# 535
Delta R.T. 0.01 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Instrument :
MSVOA_R
ClientSampled :
MDL02

Tgt Ion	Ratio	Lower	Upper
73	100		
43	14.1	14.7	22.1#
57	8.5	18.9	28.3#

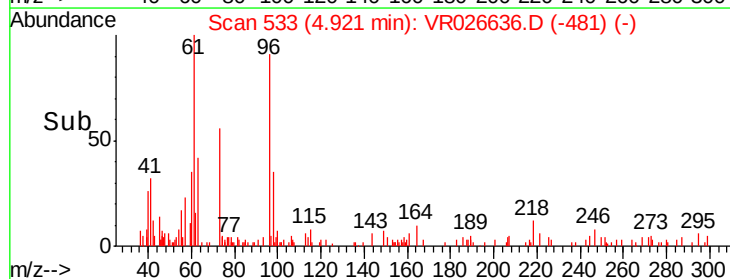
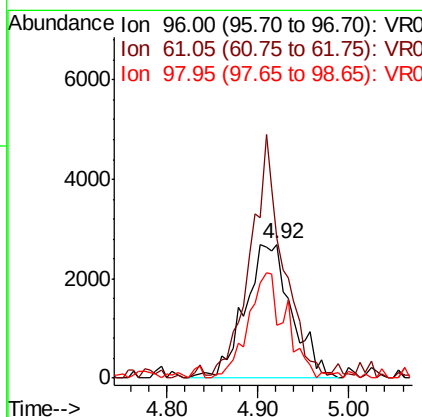
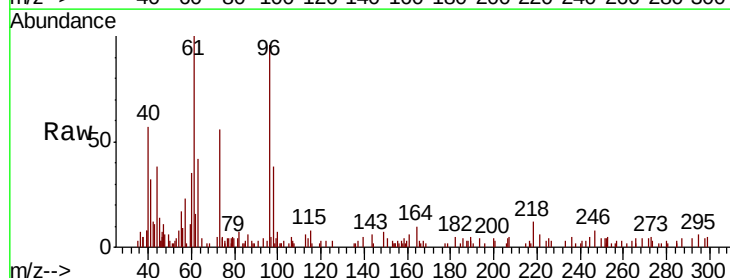
Manual Integrations
APPROVED

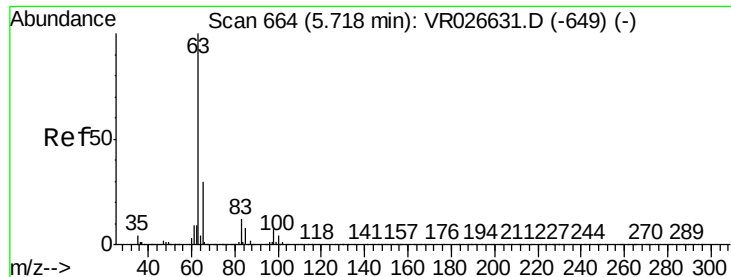
MMDadoda
9/16/2019 12:45:01 AM



#18
trans-1,2-Dichloroethene
Concen: 0.327 ug/L
RT: 4.92 min Scan# 533
Delta R.T. 0.02 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	103.9	104.4	194.0#
98	39.9	44.2	82.0#





#19

1,1-Dichloroethane

Concen: 0.318 ug/L

RT: 5.72 min Scan# 664

Delta R.T. -0.00 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

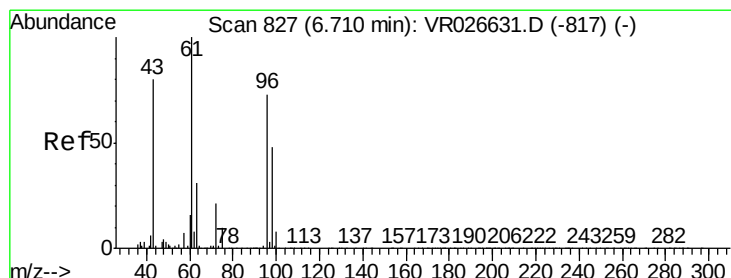
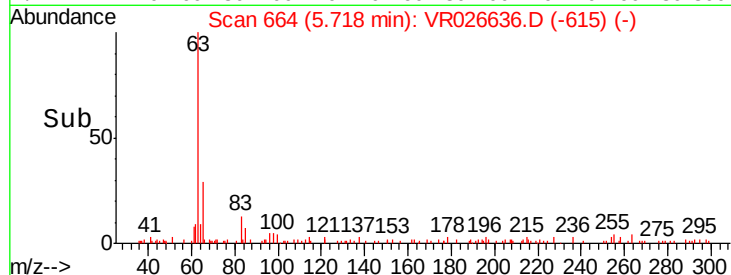
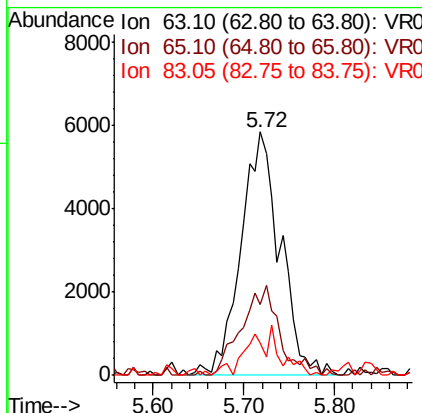
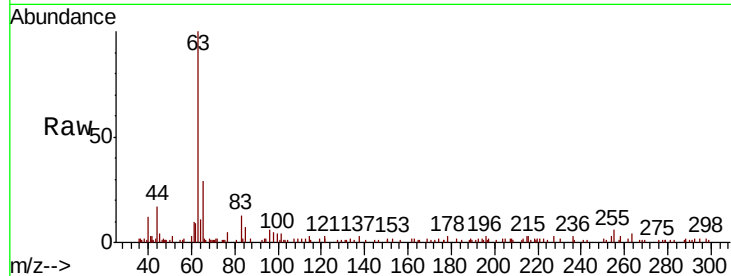
ClientSampleId :

MDL02

Tgt Ion:	63	Resp:	17540
Ion Ratio	Lower	Upper	
63	100		
65	31.0	22.5	41.9
83	13.4	8.6	16.0

Manual Integrations
APPROVED

MMDadoda
9/16/2019 12:45:01 AM



#21

2-Butanone

Concen: 3.225 ug/L m

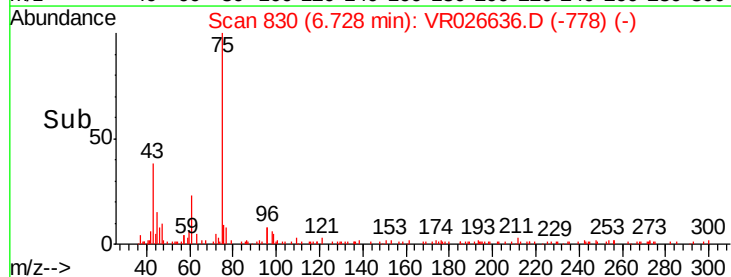
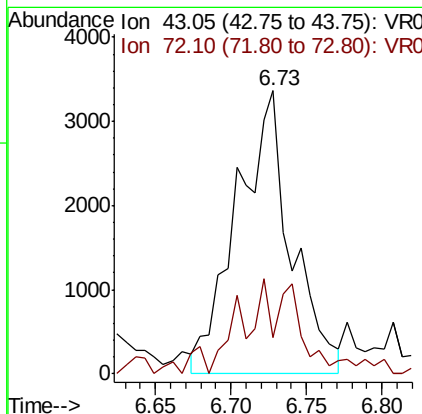
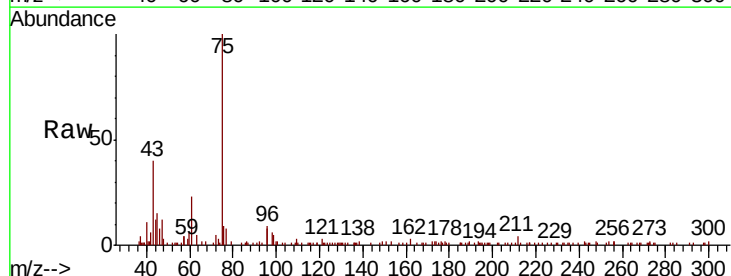
RT: 6.73 min Scan# 830

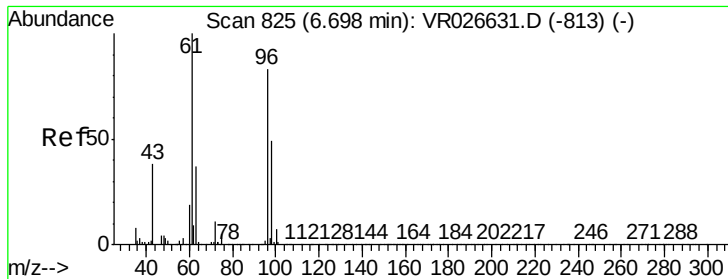
Delta R.T. 0.02 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Tgt Ion:	43	Resp:	8421
Ion Ratio	Lower	Upper	
43	100		
72	2.7	15.0	45.1#





#22

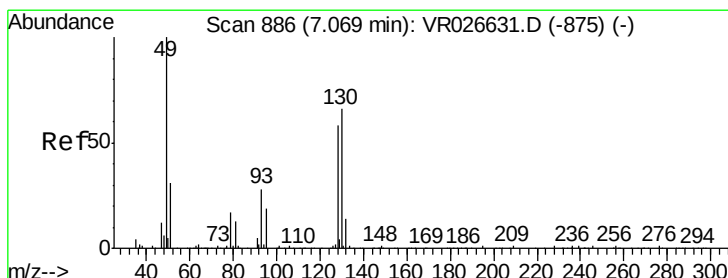
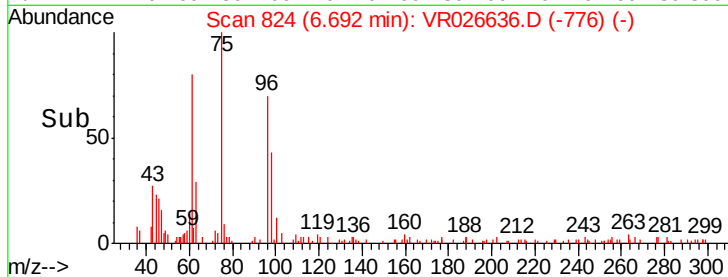
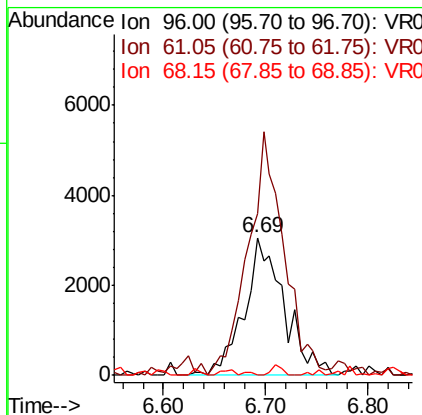
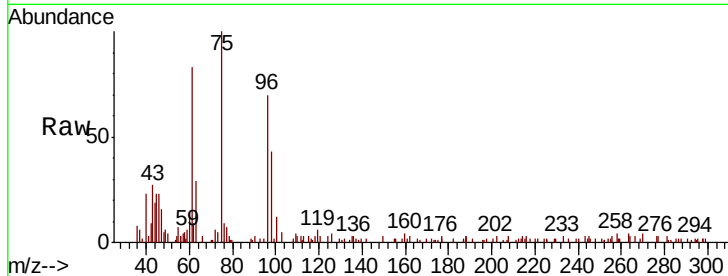
cis-1,2-Dichloroethene
Concen: 0.295 ug/L
RT: 6.69 min Scan# 824
Delta R.T. -0.01 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Instrument :
MSVOA_R
ClientSampleId :
MDL02

Tgt Ion:	96	Resp:	8313
Ion	Ratio	Lower	Upper
96	100		
61	117.4	95.4	177.2
68	0.0	0.0	0.0

Manual Integrations
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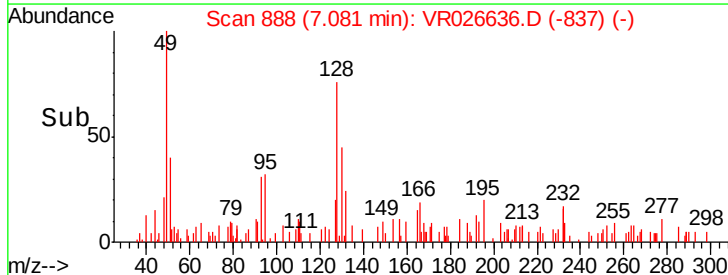
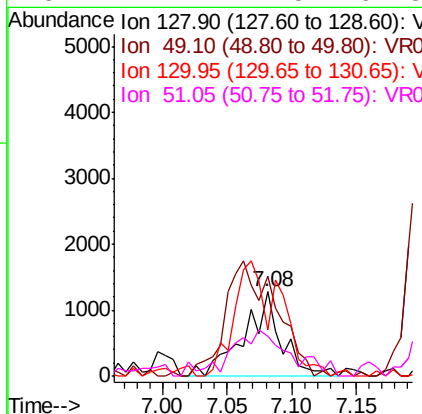
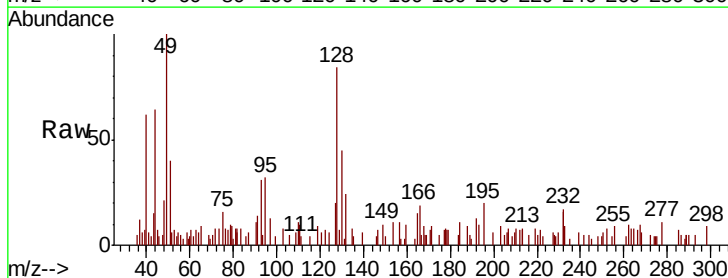
MMDadoda
9/16/2019 12:45:01 AM

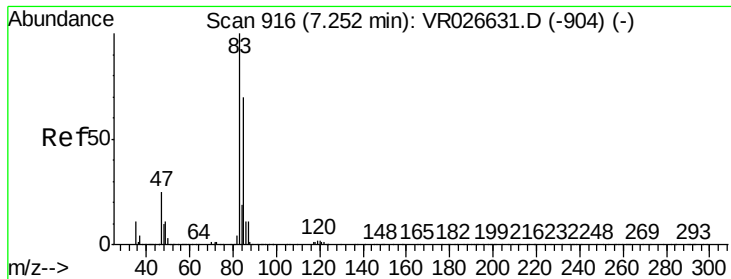


#23

Bromochloromethane
Concen: 0.331 ug/L
RT: 7.08 min Scan# 888
Delta R.T. 0.01 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Tgt Ion:	128	Resp:	2595
Ion	Ratio	Lower	Upper
128	100		
49	118.9	118.6	220.3
130	53.9	80.6	149.6#
51	47.2	41.5	62.3





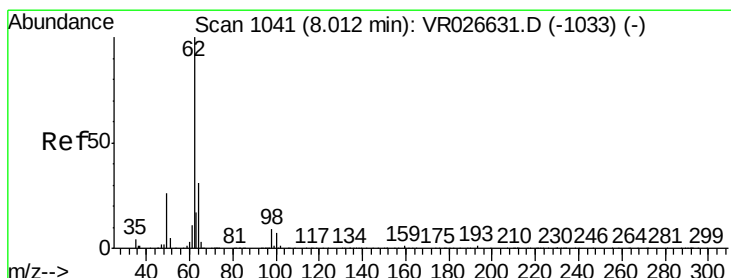
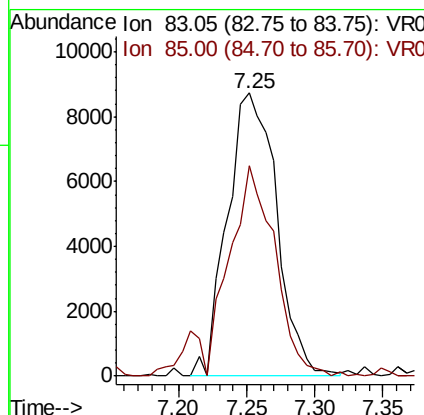
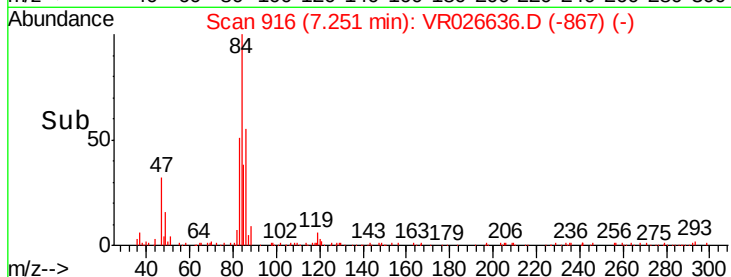
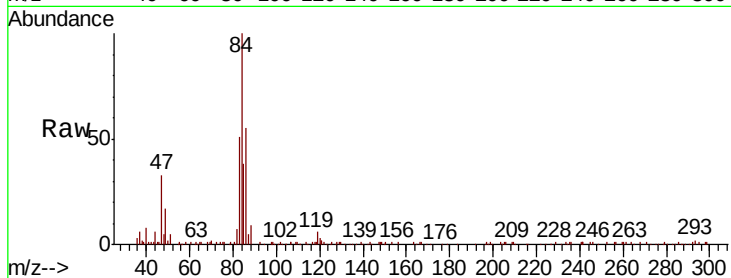
#25
Chloroform
Concen: 0.418 ug/L
RT: 7.25 min Scan# 916
Delta R.T. -0.00 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Instrument :
MSVOA_R
ClientSampled :
MDL02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	74.5	44.3	82.3

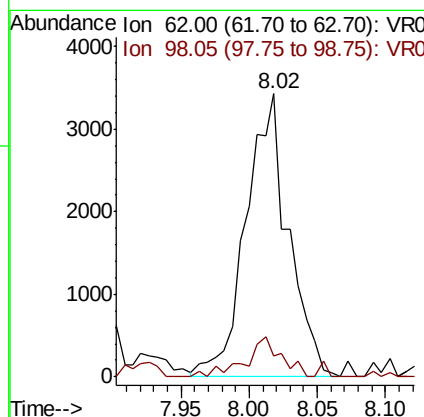
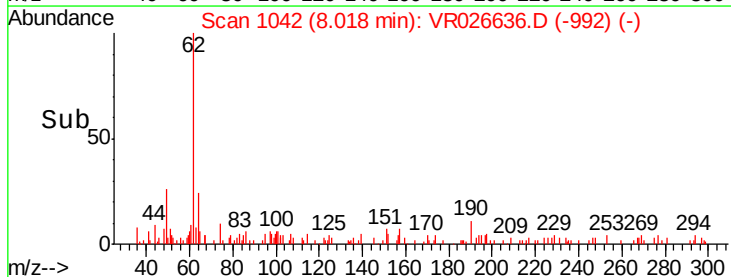
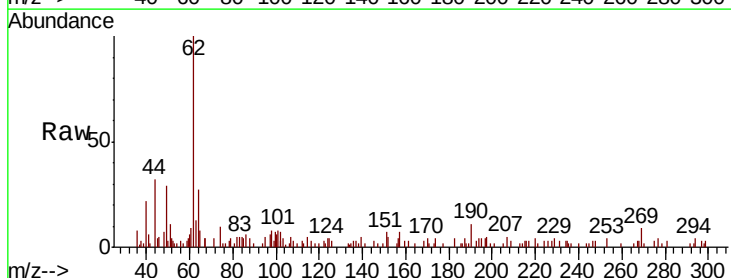
Manual Integrations
APPROVED

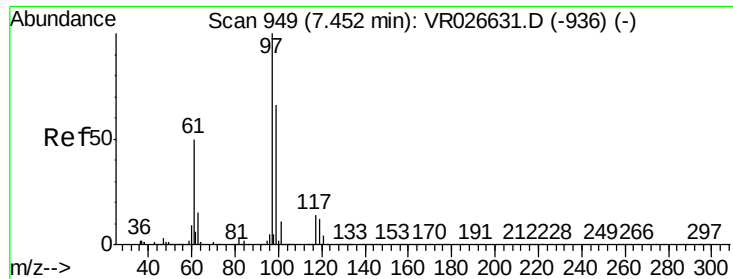
MMDadoda
9/16/2019 12:45:01 AM



#27
1,2-Dichloroethane
Concen: 0.402 ug/L
RT: 8.02 min Scan# 1042
Delta R.T. 0.01 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.6	9.0	13.4#





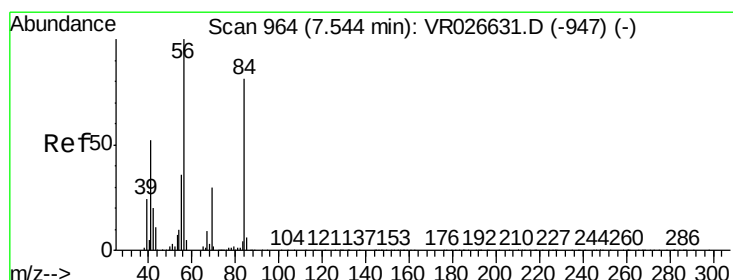
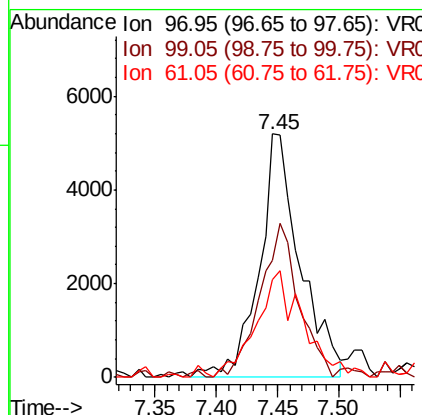
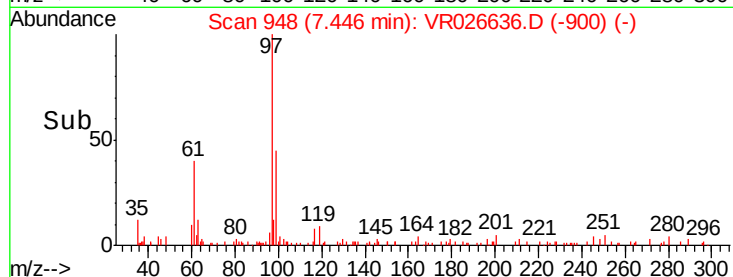
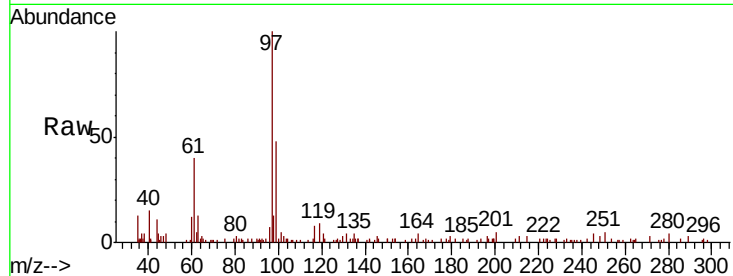
#29
 1,1,1-Trichloroethane
 Concen: 0.291 ug/L
 RT: 7.45 min Scan# 948
 Delta R.T. -0.01 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL02

Tgt Ion:	97	Resp:	12100
Ion	Ratio	Lower	Upper
97	100		
99	59.9	50.1	75.1
61	50.2	37.8	56.8

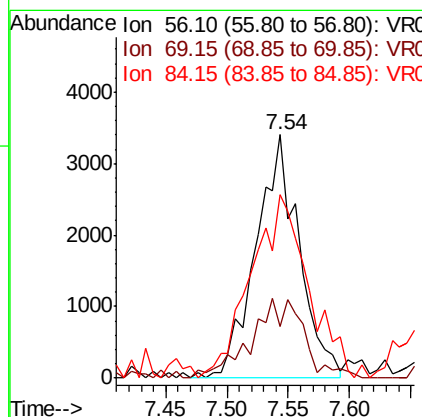
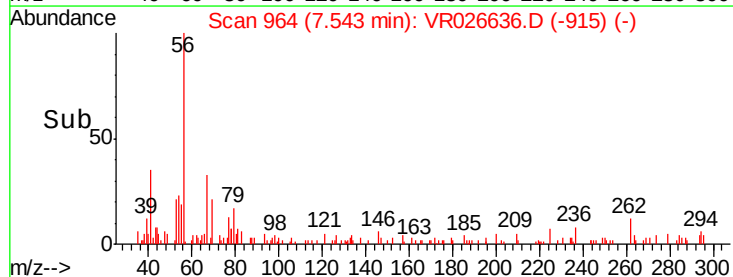
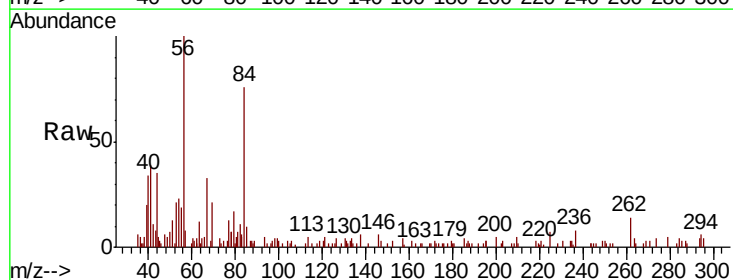
Manual Integrations
 APPROVED

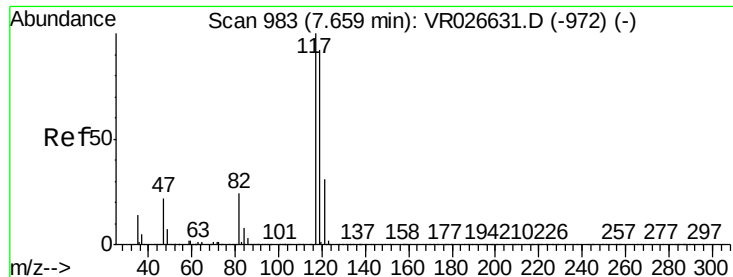
MMDadoda
 9/16/2019 12:45:01 AM



#30
 Cyclohexane
 Concen: 0.188 ug/L
 RT: 7.54 min Scan# 964
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Tgt Ion:	56	Resp:	8316
Ion	Ratio	Lower	Upper
56	100		
69	23.6	25.9	38.9#
84	99.6	67.6	101.4





#31

Carbon tetrachloride

Concen: 0.305 ug/L

RT: 7.65 min Scan# 982

Delta R.T. -0.01 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

ClientSampled :

MDL02

Tgt Ion:117 Resp: 10736

Ion Ratio Lower Upper

117 100

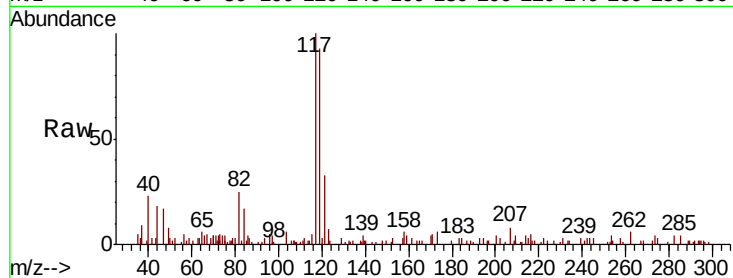
119 97.4 76.6 115.0

Manual Integrations

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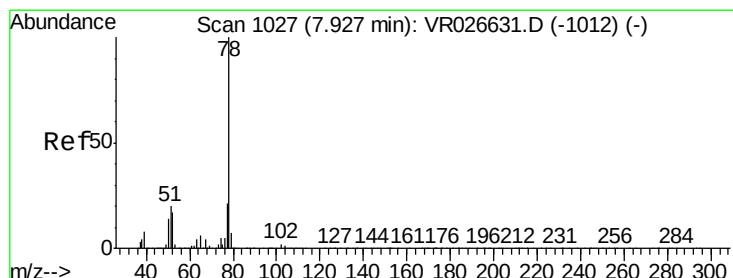
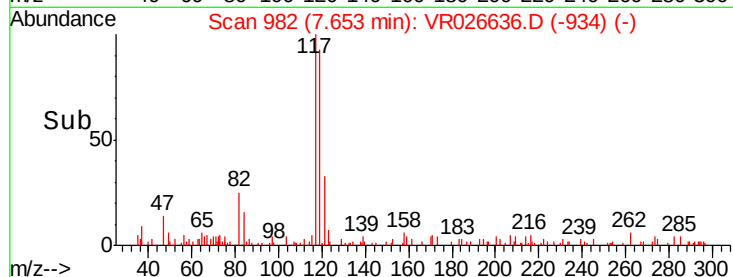
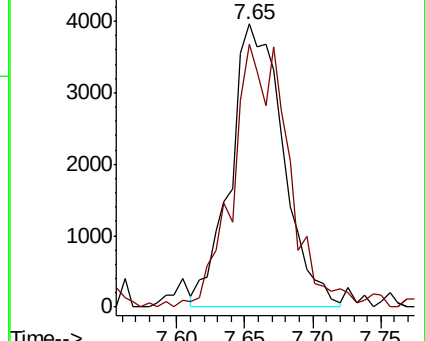
MMDadoda

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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.311 ug/L m

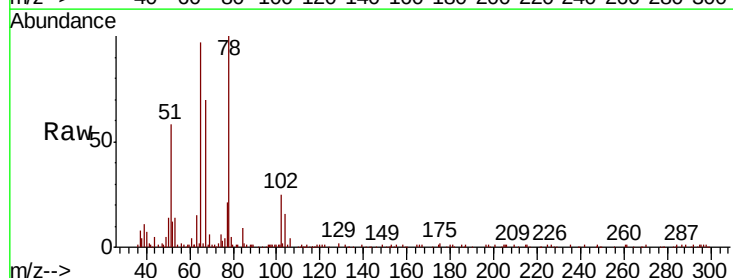
RT: 7.93 min Scan# 1027

Delta R.T. -0.00 min

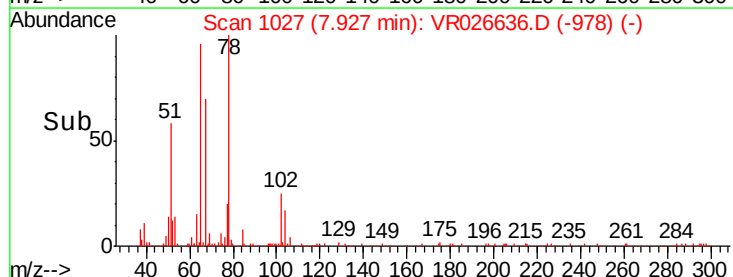
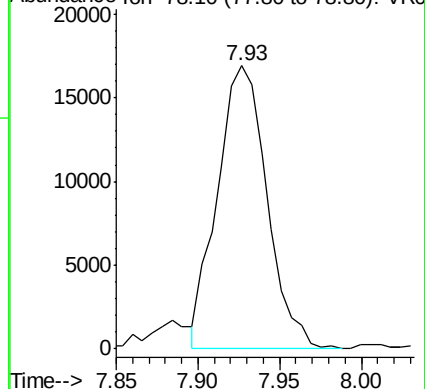
Lab File: VR026636.D

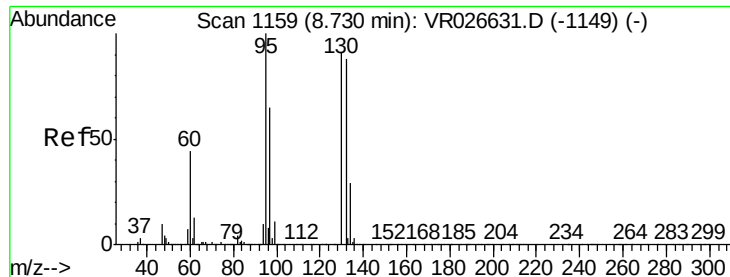
Acq: 13 Sep 2019 17:20

Tgt Ion: 78 Resp: 35566



Abundance Ion 78.10 (77.80 to 78.80): VR0





#34

Trichloroethene

Concen: 0.299 ug/L

RT: 8.73 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

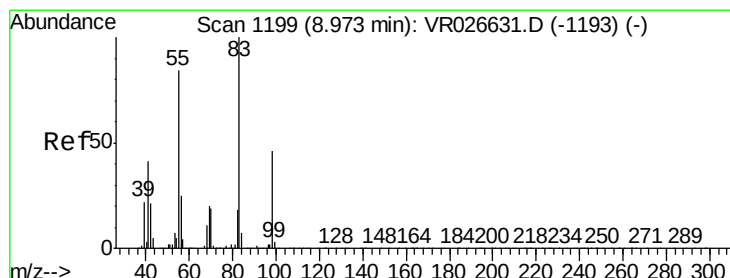
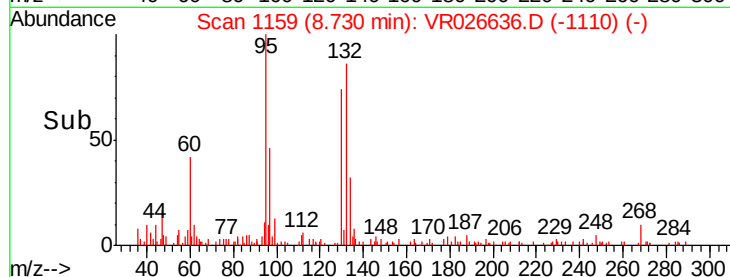
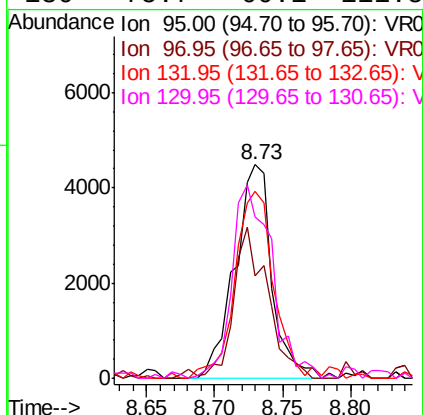
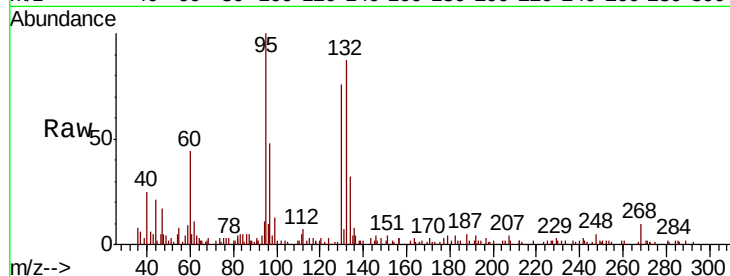
ClientSampled :

MDL02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
95	100		8515		
97	48.0	45.6	84.6		
132	87.4	57.3	106.5		
130	75.7	60.1	111.5		

Manual Integrations
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#35

Methylcyclohexane

Concen: 0.239 ug/L

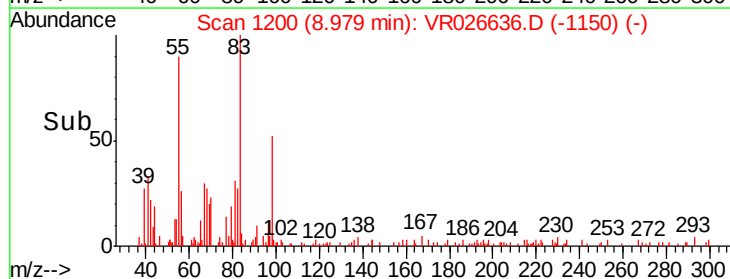
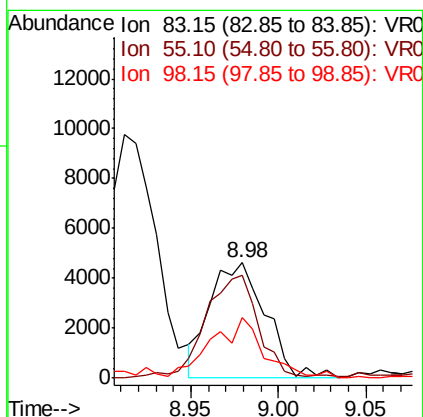
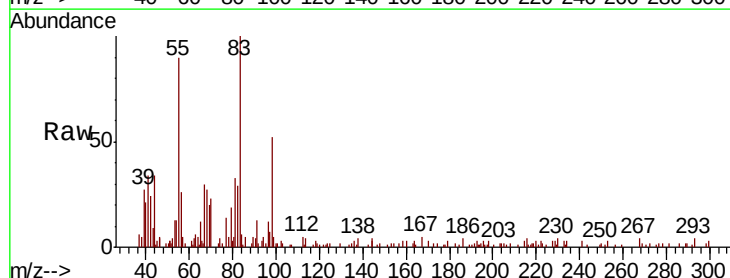
RT: 8.98 min Scan# 1200

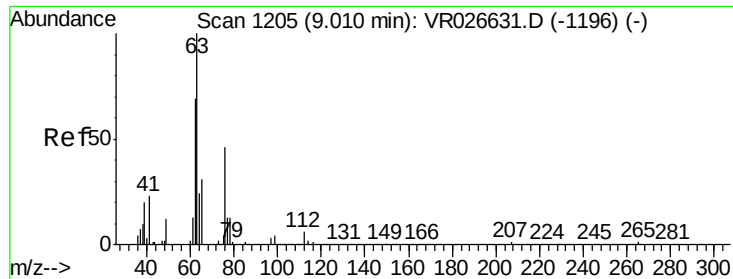
Delta R.T. 0.01 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		10247		
55	84.8	63.5	95.3		
98	49.4	35.4	53.0		





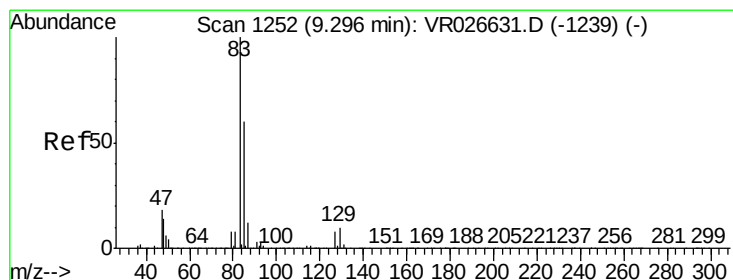
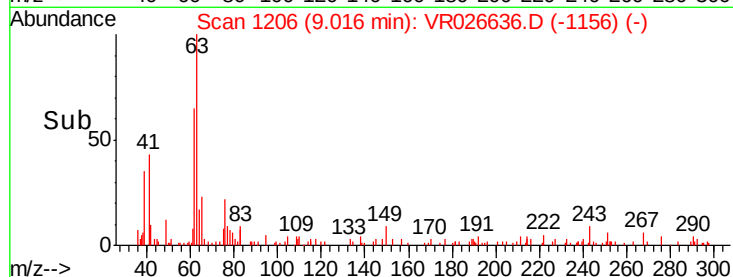
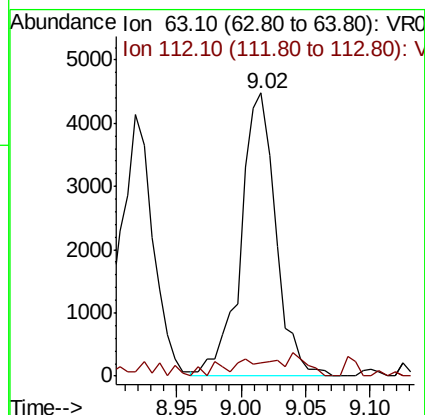
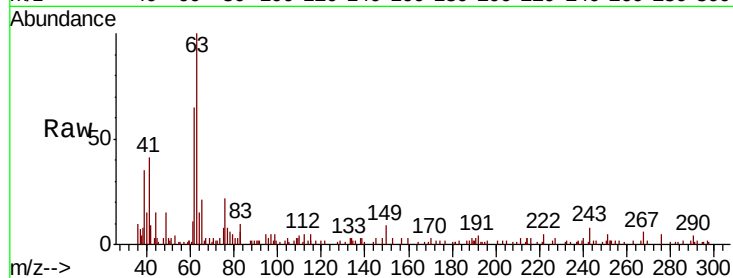
#37
 1,2-Dichloropropane
 Concen: 0.363 ug/L
 RT: 9.02 min Scan# 1206
 Delta R.T. 0.01 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Instrument :
 MSVOA_R
 ClientSampled :
 MDL02

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	8396		
112	2.5	3.1	4.7#	

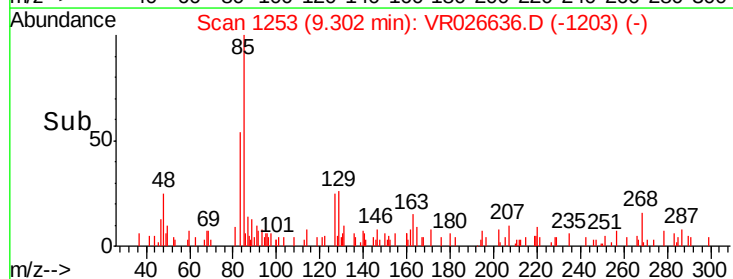
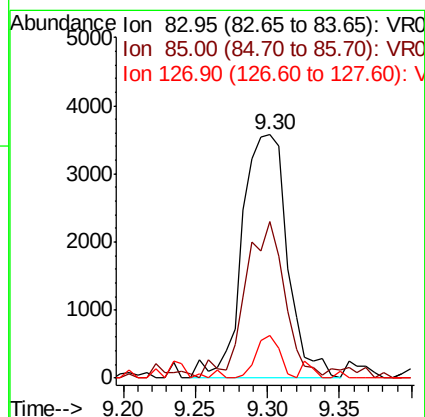
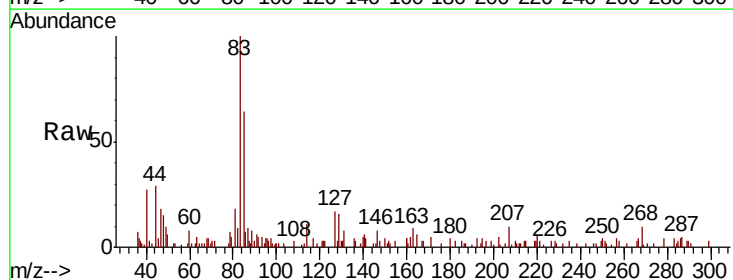
Manual Integrations
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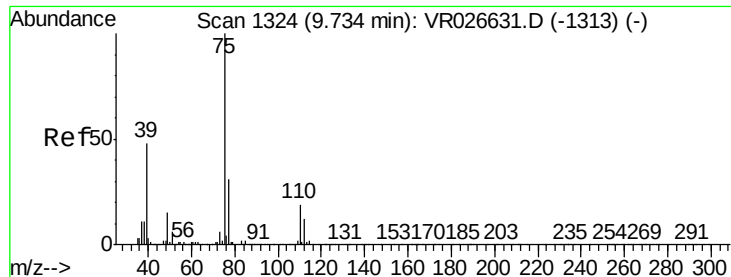
MMDadoda
 9/16/2019 12:45:01 AM



#38
 Bromodichloromethane
 Concen: 0.315 ug/L
 RT: 9.30 min Scan# 1253
 Delta R.T. 0.01 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	7744		
85	64.2	44.0	81.8	
127	17.4	6.4	9.6#	





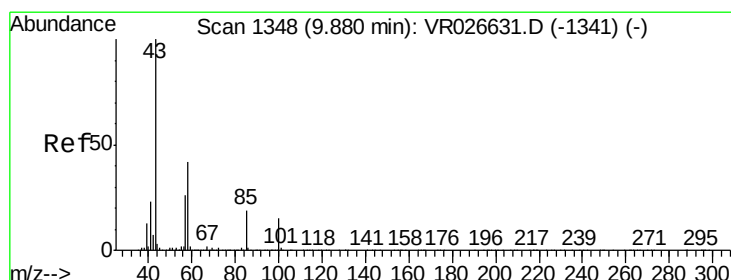
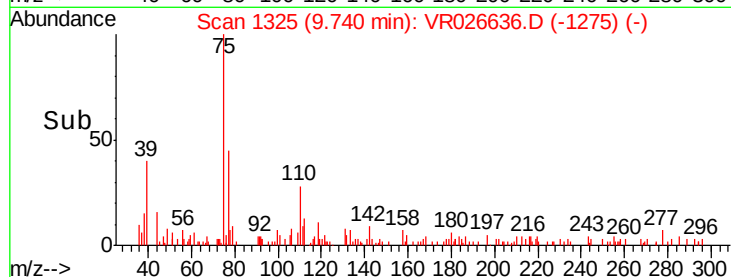
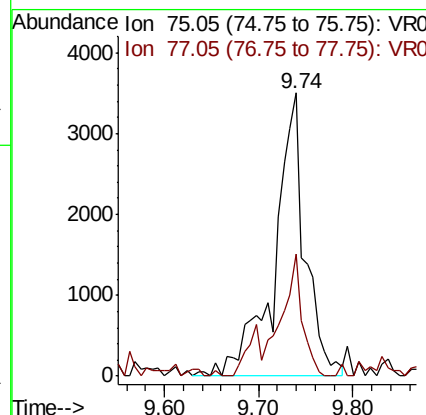
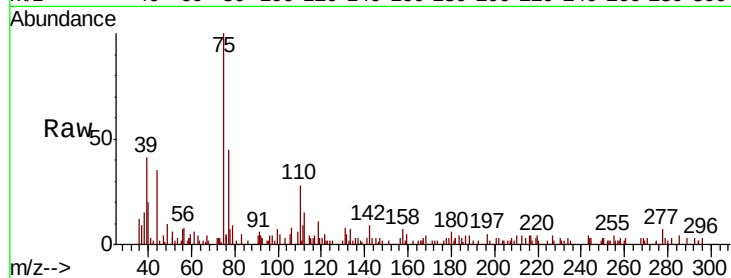
#39
 cis-1,3-Dichloropropene
 Concen: 0.322 ug/L
 RT: 9.74 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL02

Tgt Ion: 75 Resp: 7902
 Ion Ratio Lower Upper
 75 100
 77 43.0 21.8 40.6#

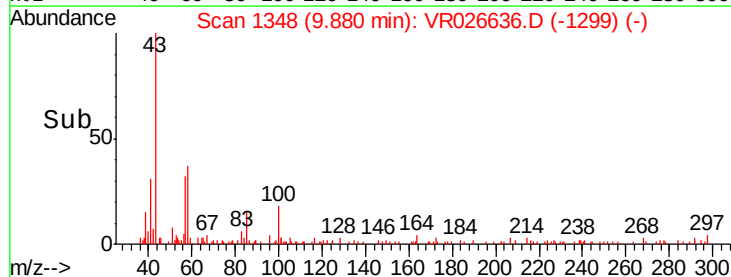
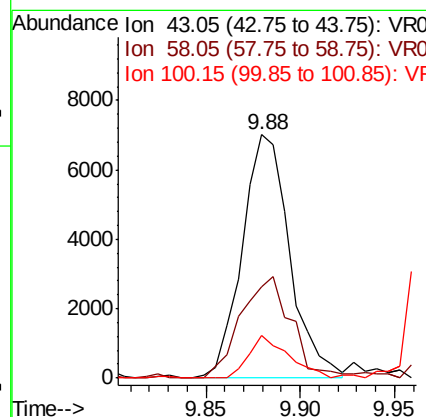
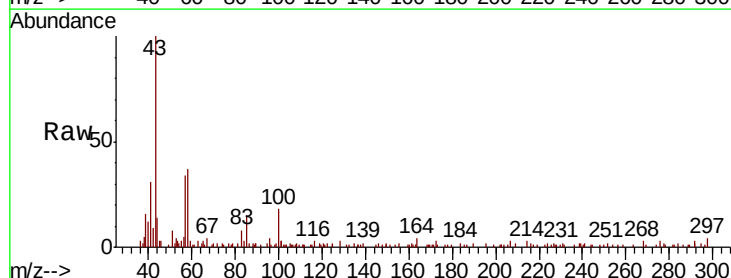
Manual Integrations
 APPROVED

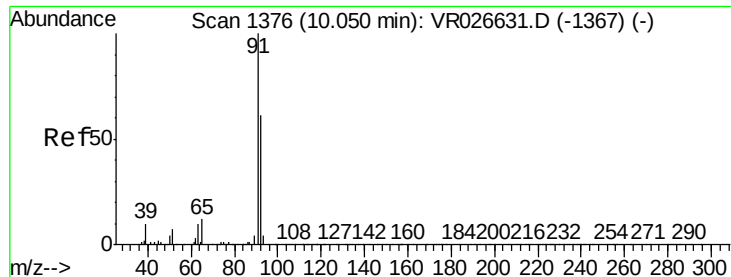
MMDadoda
 9/16/2019 12:45:01 AM



#40
 4-Methyl-2-pentanone
 Concen: 2.117 ug/L
 RT: 9.88 min Scan# 1348
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Tgt Ion: 43 Resp: 12258
 Ion Ratio Lower Upper
 43 100
 58 44.4 32.6 48.8
 100 0.0 11.7 17.5#





#42

Toluene

Concen: 0.291 ug/L

RT: 10.05 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

ClientSampleId :

MDL02

Tgt Ion: 91 Resp: 29097

Ion Ratio Lower Upper

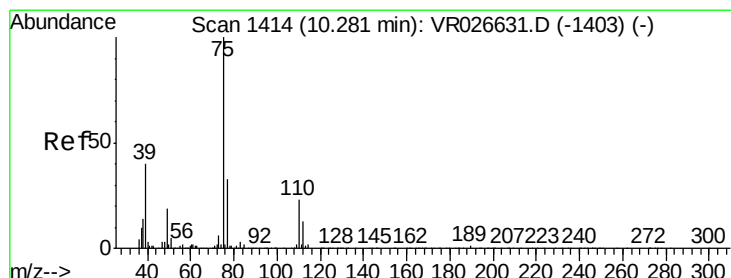
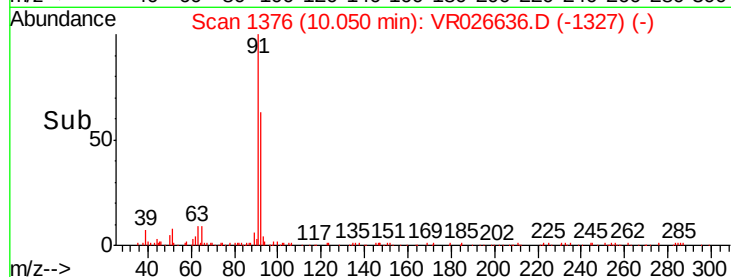
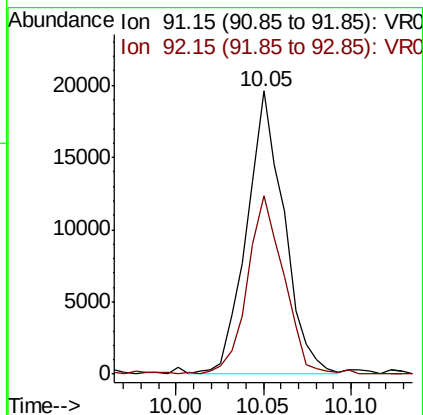
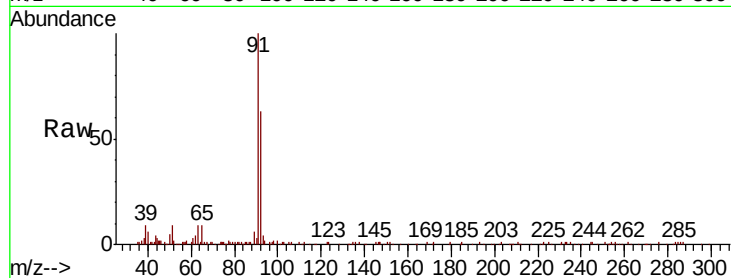
91 100

92 63.0 40.8 75.8

Manual Integrations
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MMDadoda

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#44

trans-1,3-Dichloropropene

Concen: 0.248 ug/L m

RT: 10.28 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VR026636.D

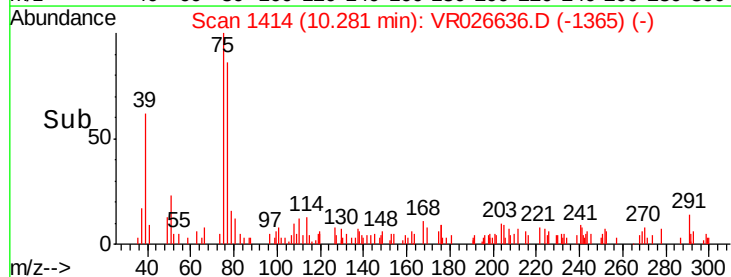
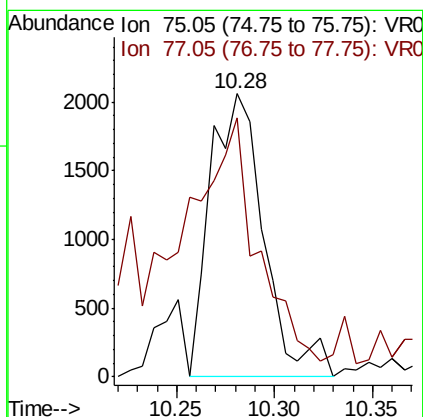
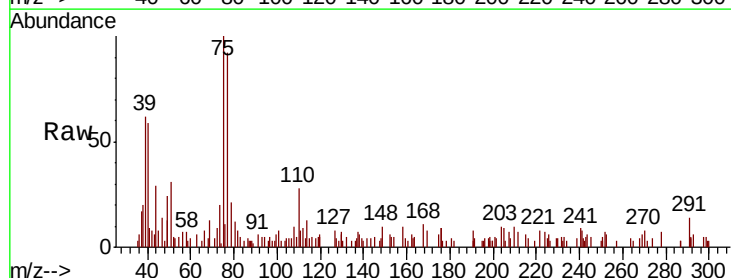
Acq: 13 Sep 2019 17:20

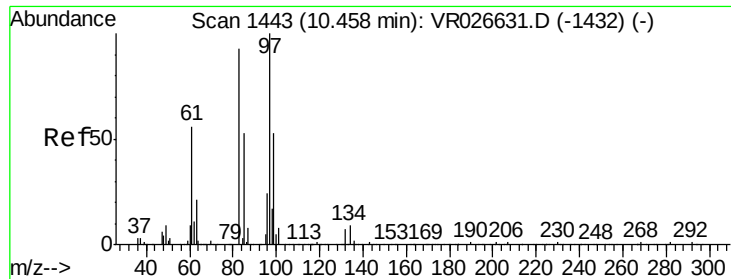
Tgt Ion: 75 Resp: 3904

Ion Ratio Lower Upper

75 100

77 91.7 23.1 42.9#





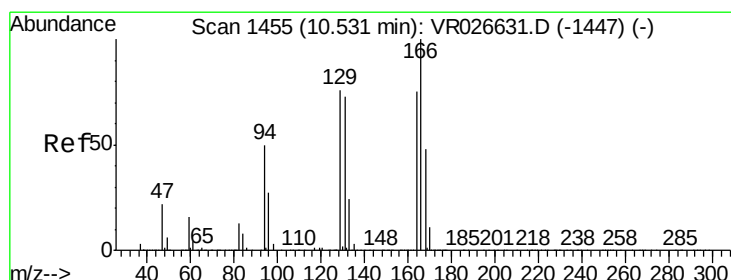
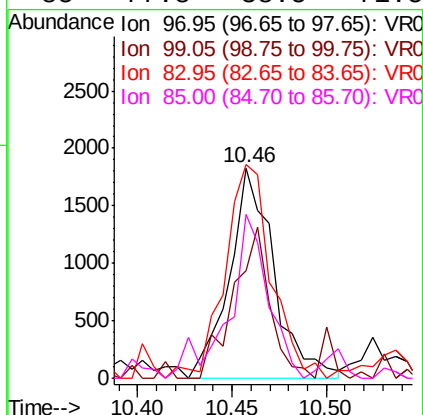
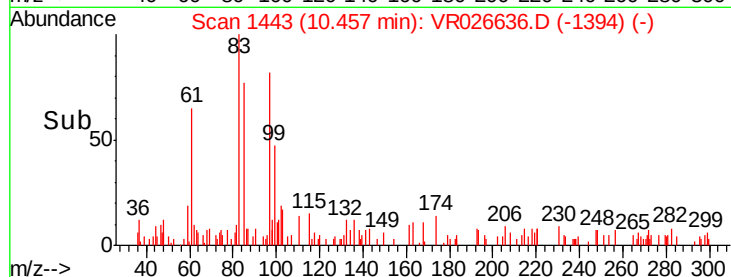
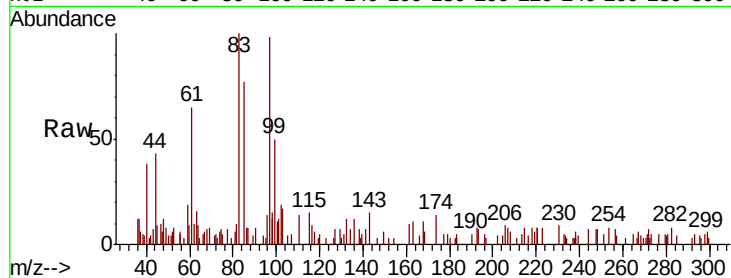
#45
 1,1,2-Trichloroethane
 Concen: 0.305 ug/L
 RT: 10.46 min Scan# 1443
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	51.1	45.6	84.6
83	101.6	64.5	119.9
85	77.8	38.5	71.5#

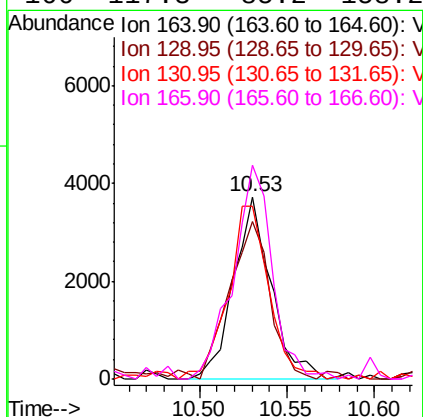
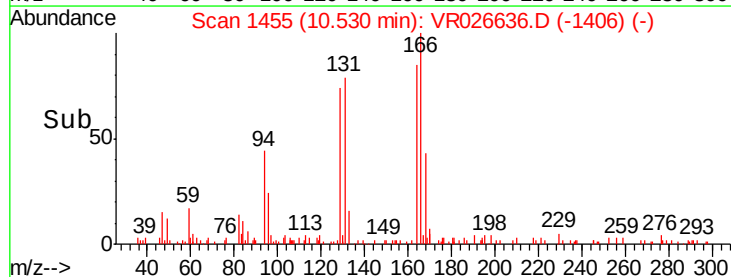
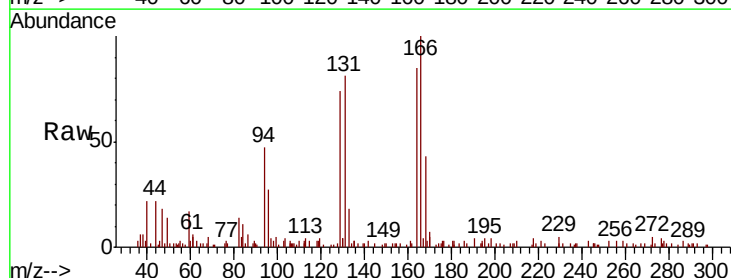
Manual Integrations
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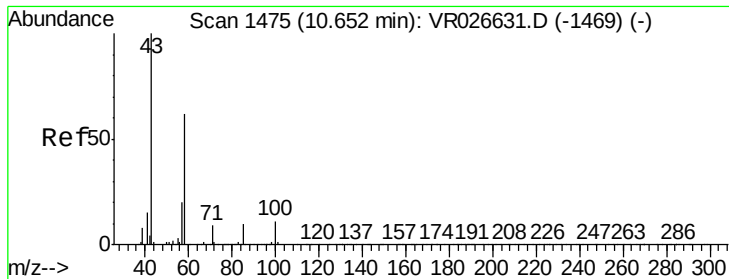
MMDadoda
 9/16/2019 12:45:01 AM



#47
 Tetrachloroethene
 Concen: 0.331 ug/L
 RT: 10.53 min Scan# 1455
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Lower	Upper
164	100		
129	86.4	74.8	139.0
131	94.8	69.1	128.3
166	117.3	85.2	158.2





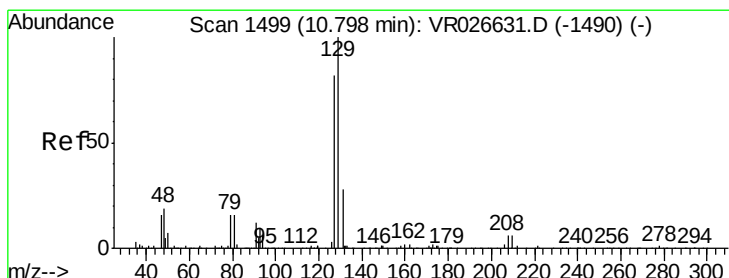
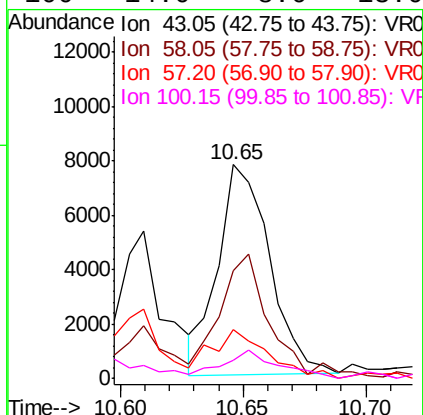
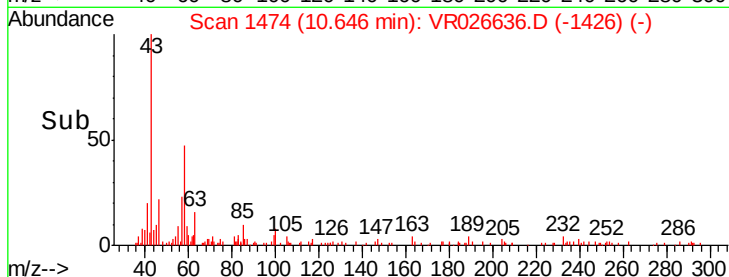
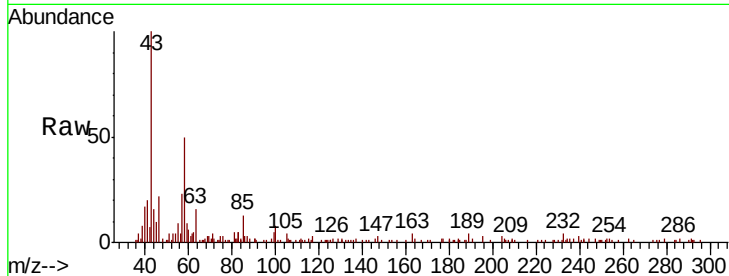
#48
2-Hexanone
Concen: 3.092 ug/L
RT: 10.65 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Instrument :
MSVOA_R
ClientSampled :
MDL02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	58.3	46.4	69.6
57	25.4	16.7	25.1#
100	14.0	8.6	13.0#

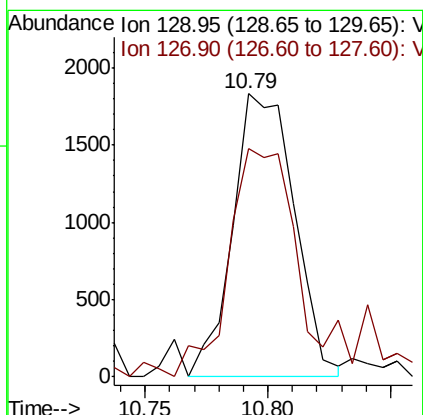
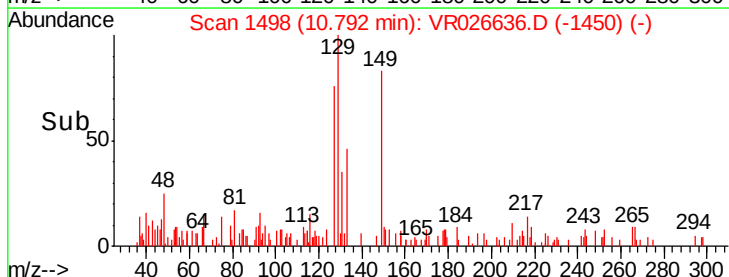
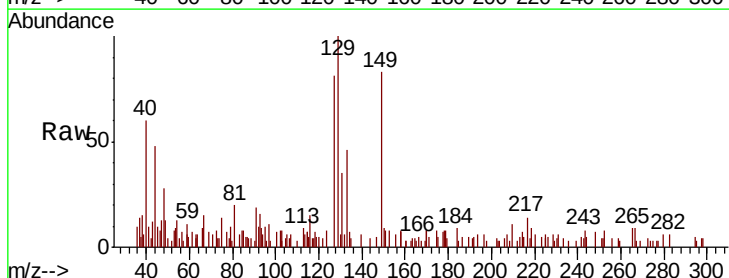
Manual Integrations
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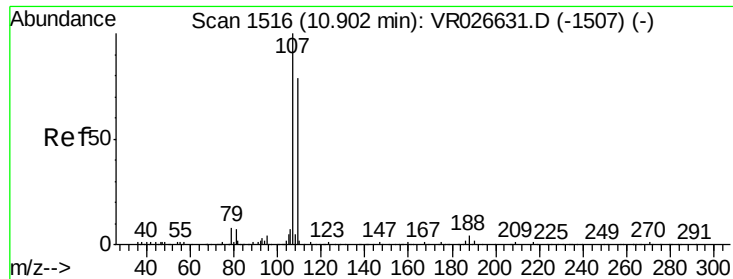
MMDadoda
9/16/2019 12:45:01 AM



#49
Dibromochloromethane
Concen: 0.299 ug/L
RT: 10.79 min Scan# 1498
Delta R.T. -0.01 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.6	57.0	105.9





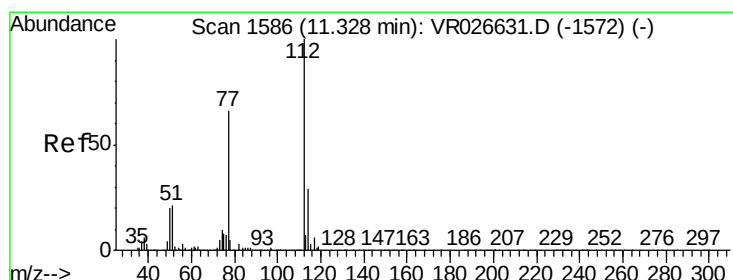
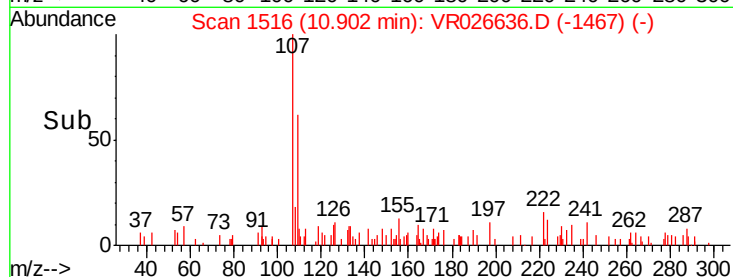
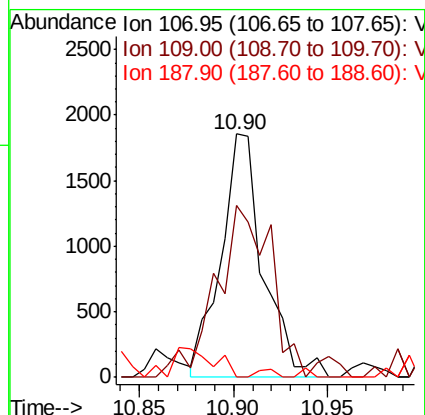
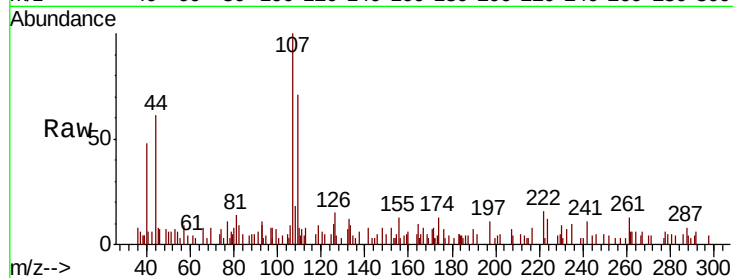
#50
1,2-Dibromoethane
Concen: 0.339 ug/L
RT: 10.90 min Scan# 1516
Delta R.T. -0.00 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Instrument :
MSVOA_R
ClientSampled :
MDL02

Tgt Ion:	107	Resp:	2898
Ion Ratio	Lower	Upper	
107	100		
109	70.9	67.2	124.8
188	0.0	1.8	2.8#

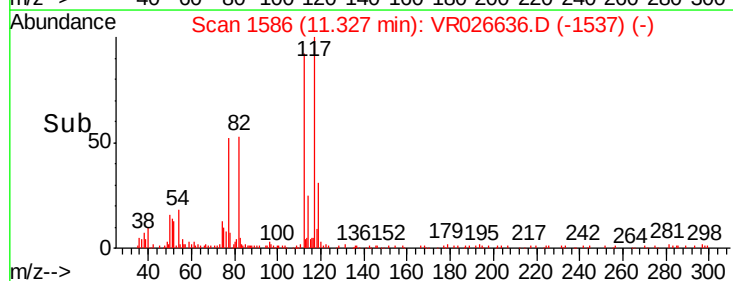
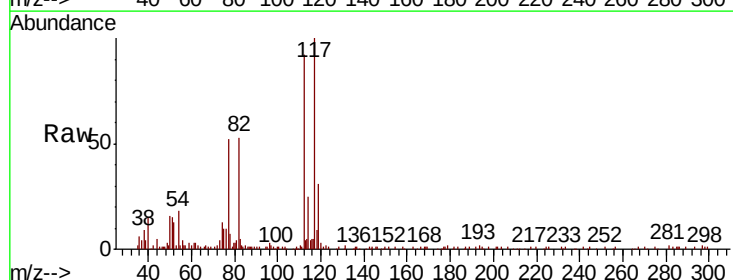
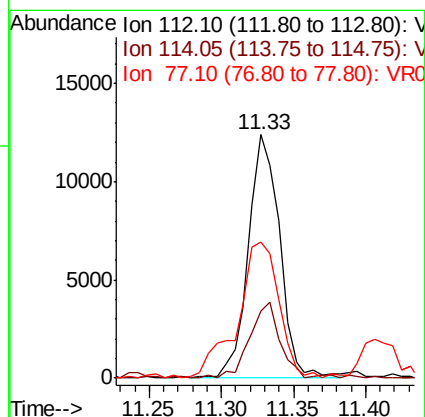
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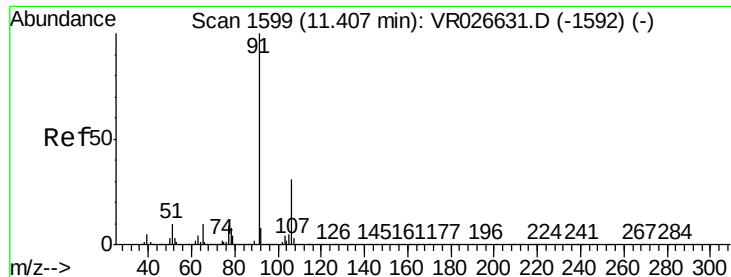
MMDadoda
9/16/2019 12:45:01 AM



#51
Chlorobenzene
Concen: 0.321 ug/L
RT: 11.33 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Tgt Ion:	112	Resp:	18630
Ion Ratio	Lower	Upper	
112	100		
114	26.3	22.7	42.1
77	53.4	54.0	81.0#





#52

Ethylbenzene

Concen: 0.250 ug/L

RT: 11.41 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

ClientSampleId :

MDL02

Tgt Ion: 91 Resp: 28389

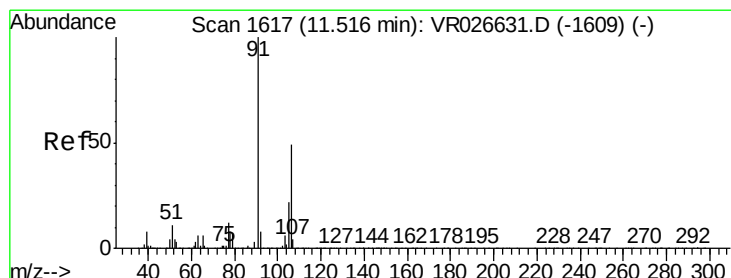
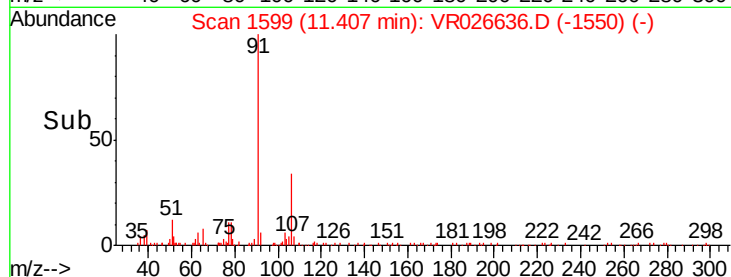
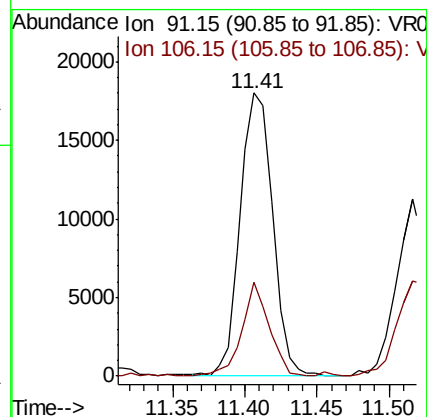
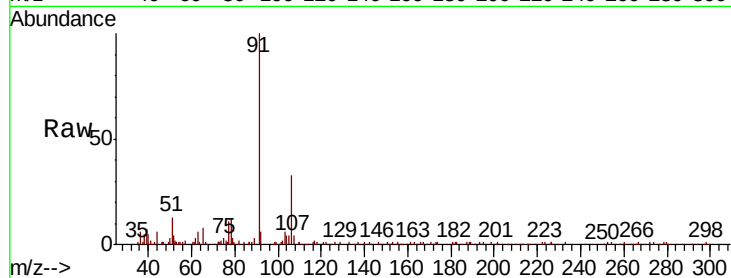
Ion Ratio Lower Upper

91 100

106 33.2 21.0 39.0

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MMDadoda
9/16/2019 12:45:01 AM



#53

m,p-Xylene

Concen: 0.258 ug/L

RT: 11.52 min Scan# 1617

Delta R.T. -0.00 min

Lab File: VR026636.D

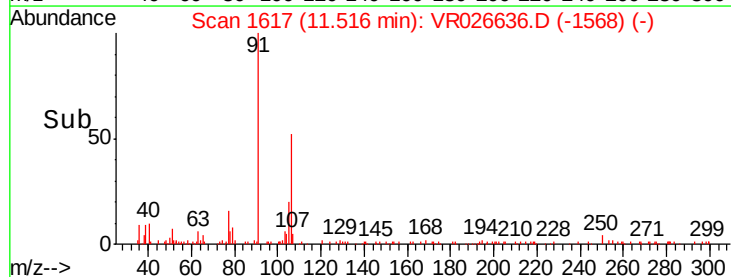
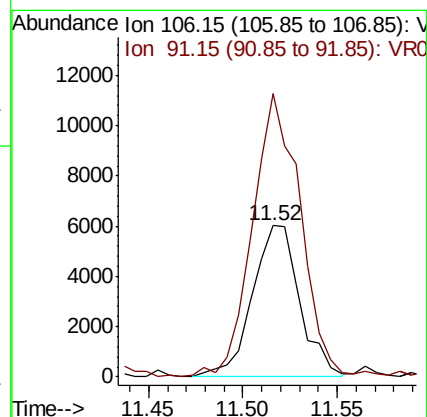
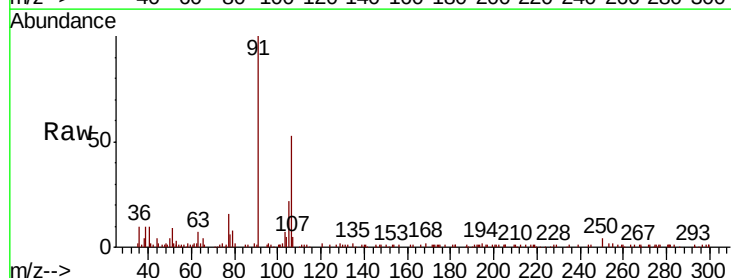
Acq: 13 Sep 2019 17:20

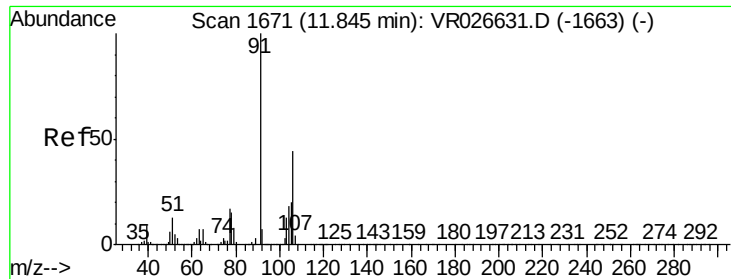
Tgt Ion: 106 Resp: 10472

Ion Ratio Lower Upper

106 100

91 187.0 146.5 272.1





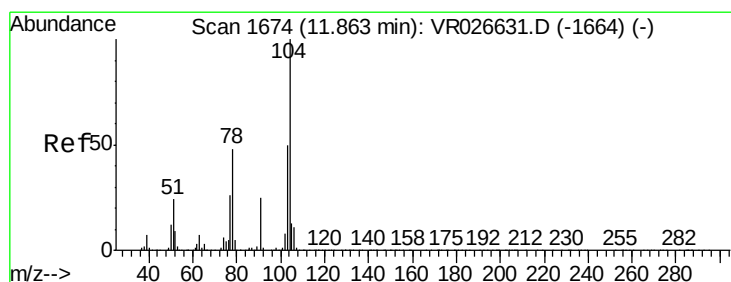
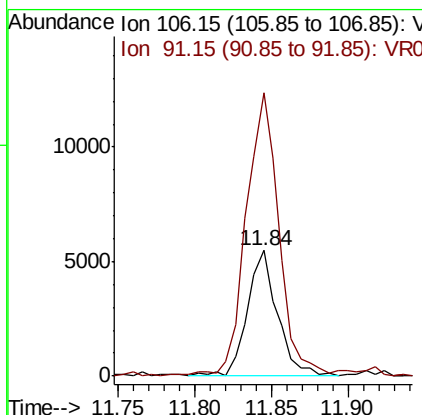
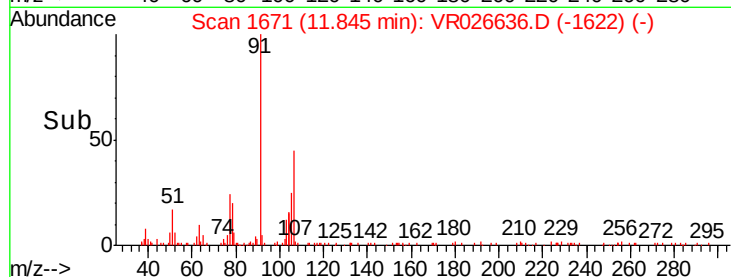
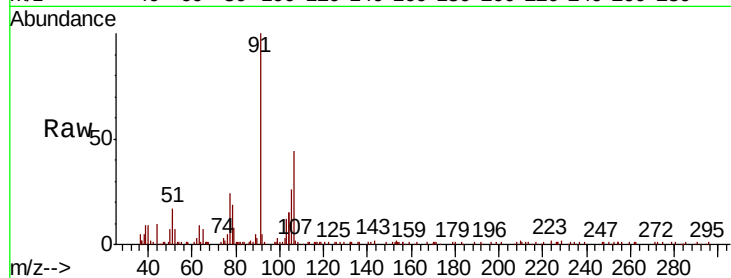
#54
o-Xylene
Concen: 0.187 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Instrument :
MSVOA_R
ClientSampled :
MDL02

Tgt Ion	Ratio	Resp	Lower	Upper
106	100	7500		
91	224.9	154.3	286.5	

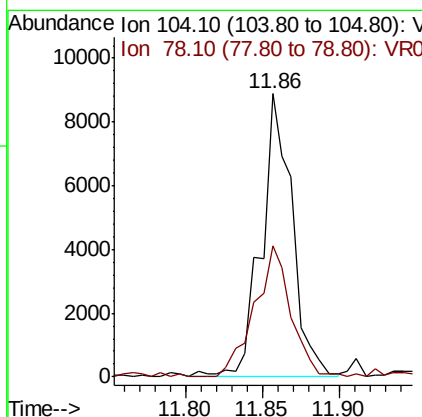
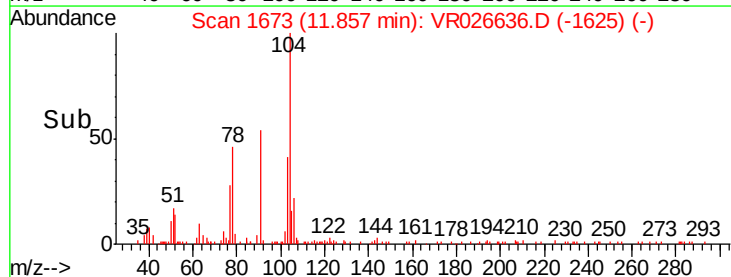
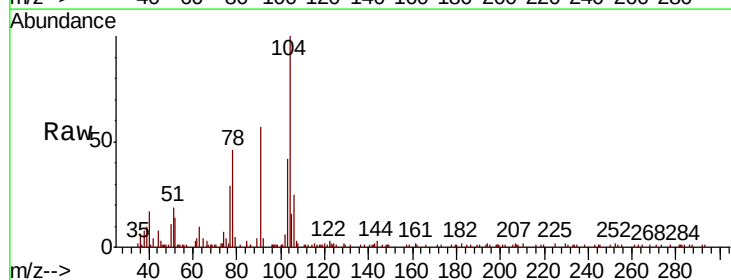
Manual Integrations
APPROVED

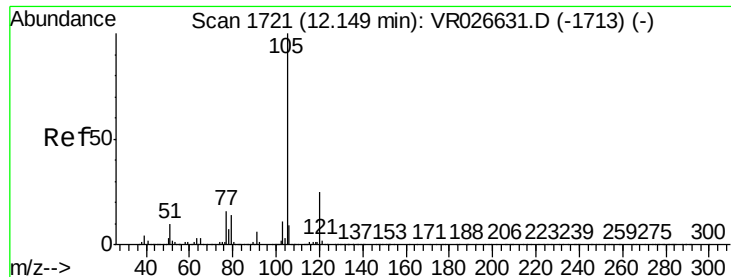
MMDadoda
9/16/2019 12:45:01 AM



#55
Styrene
Concen: 0.218 ug/L
RT: 11.86 min Scan# 1673
Delta R.T. -0.01 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	12514		
78	46.3	32.5	60.3	





#56

Isopropylbenzene

Concen: 0.202 ug/L

RT: 12.14 min Scan# 1720

Delta R.T. -0.01 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

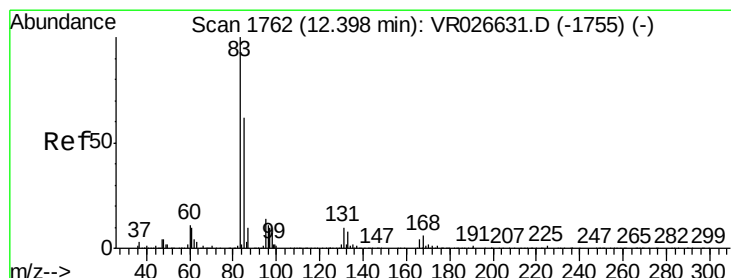
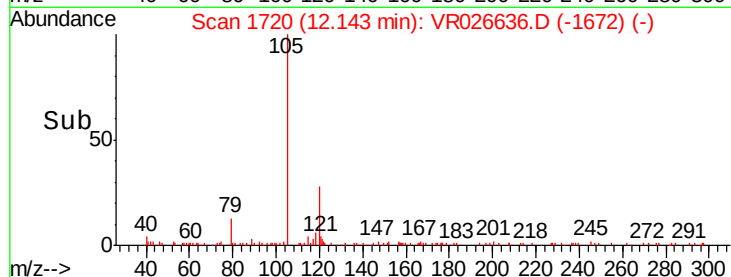
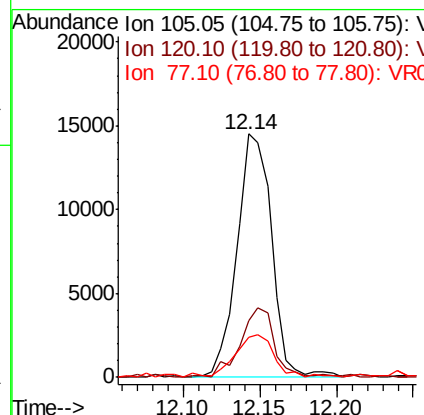
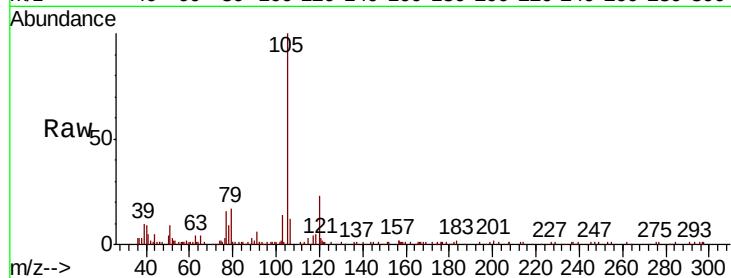
ClientSampleId :

MDL02

Tgt Ion:	105	Resp:	22804
Ion Ratio	Lower	Upper	
105	100		
120	26.5	20.7	31.1
77	19.6	13.3	19.9

Manual Integrations
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MMDadoda
9/16/2019 12:45:01 AM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.350 ug/L

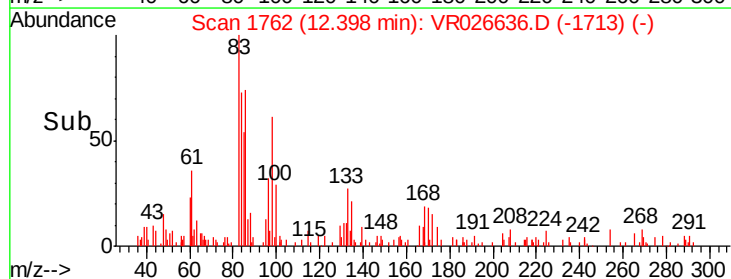
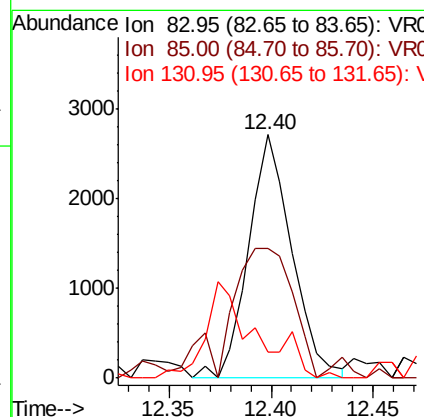
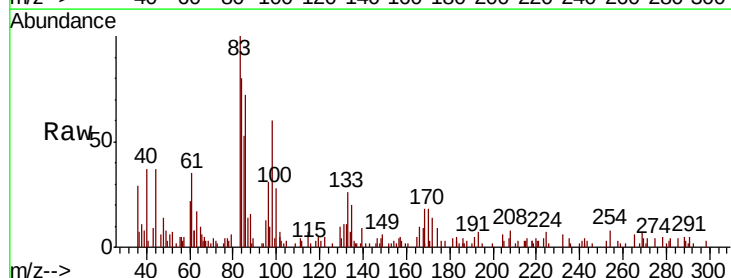
RT: 12.40 min Scan# 1762

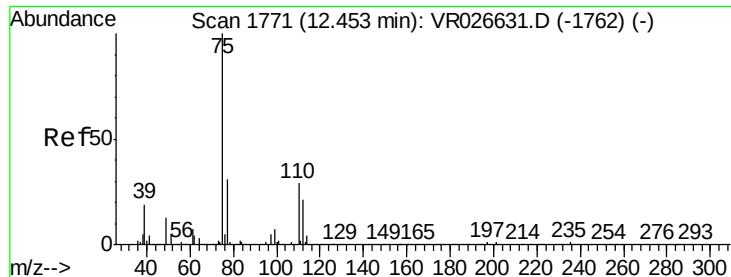
Delta R.T. -0.00 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Tgt Ion:	83	Resp:	4000
Ion Ratio	Lower	Upper	
83	100		
85	53.0	46.1	85.7
131	10.5	6.8	10.2#





#59

1,2,3-Trichloropropane

Concen: 0.341 ug/L

RT: 12.45 min Scan# 1770

Delta R.T. -0.01 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

Instrument :

MSVOA_R

ClientSampleId :

MDL02

Tgt Ion: 75 Resp: 2854

Ion Ratio Lower Upper

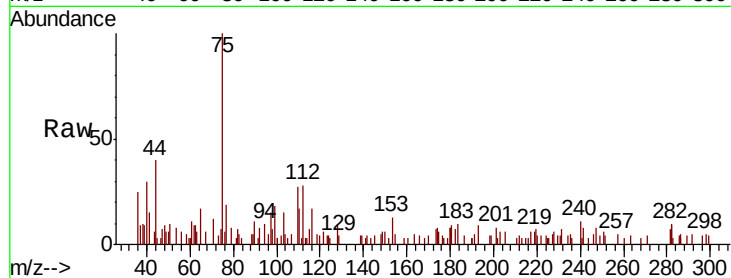
75 100

77 36.4 25.8 38.6

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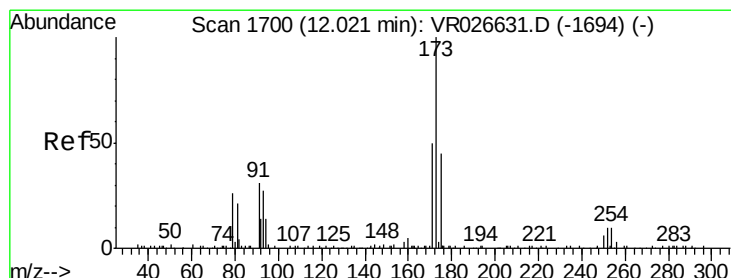
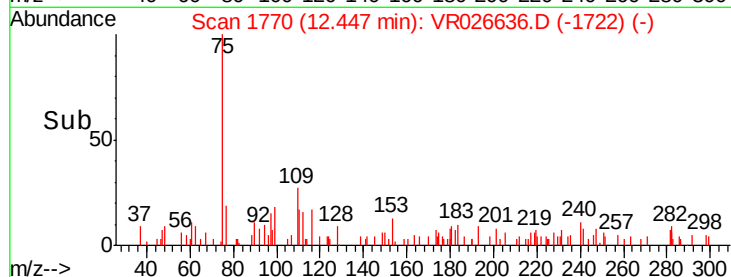
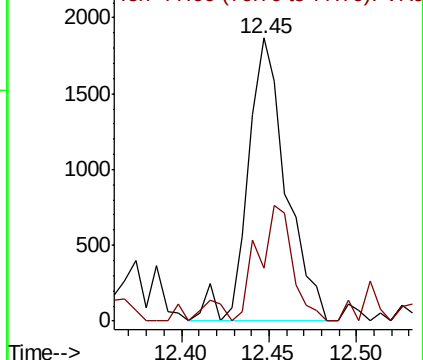
MMDadoda

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Abundance Ion 75.00 (74.70 to 75.70): VR0

Ion 77.00 (76.70 to 77.70): VR0



#61

Bromoform

Concen: 0.453 ug/L

RT: 12.02 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VR026636.D

Acq: 13 Sep 2019 17:20

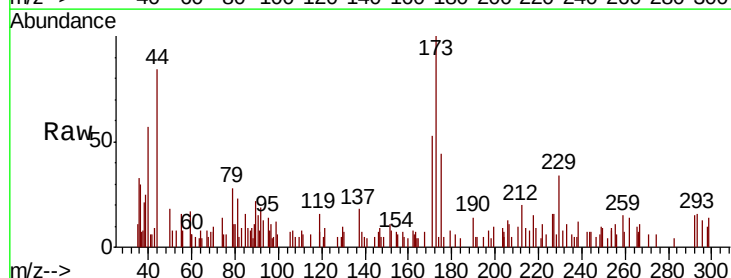
Tgt Ion: 173 Resp: 2046

Ion Ratio Lower Upper

173 100

175 40.9 40.2 60.2

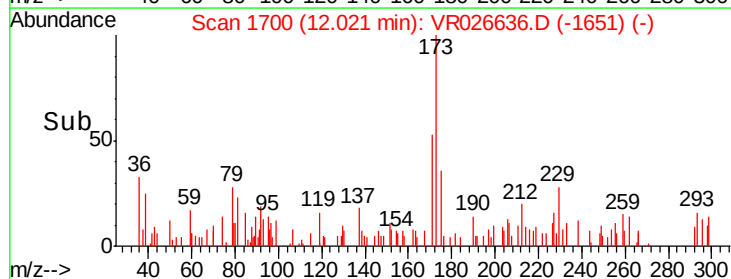
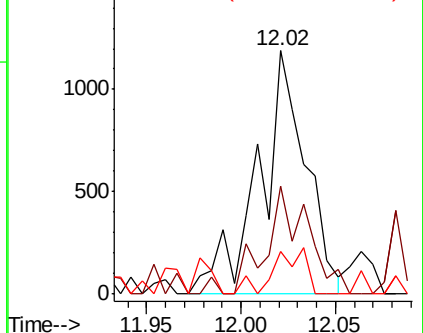
254 13.0 8.7 13.1

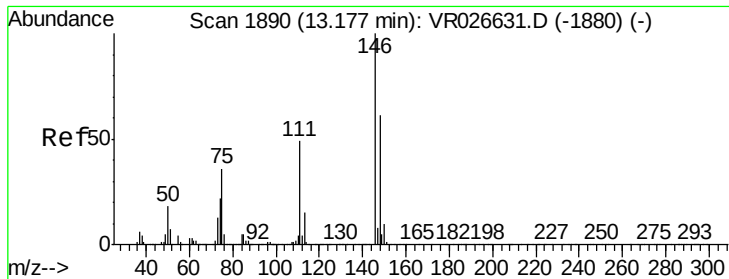


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





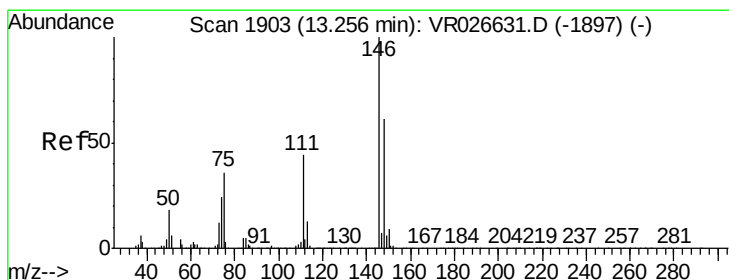
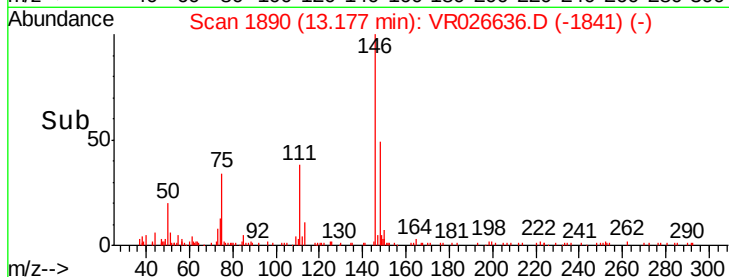
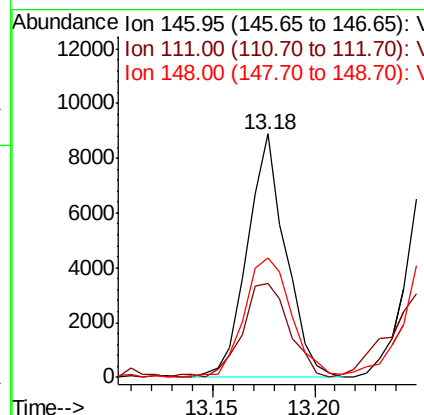
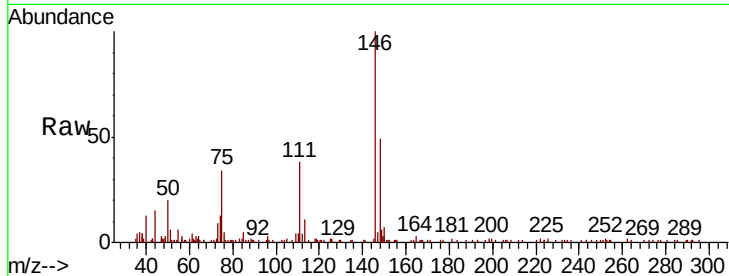
#62
 1,3-Dichlorobenzene
 Concen: 0.282 ug/L
 RT: 13.18 min Scan# 1890
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	29.5	54.9
148	49.2	42.8	79.4

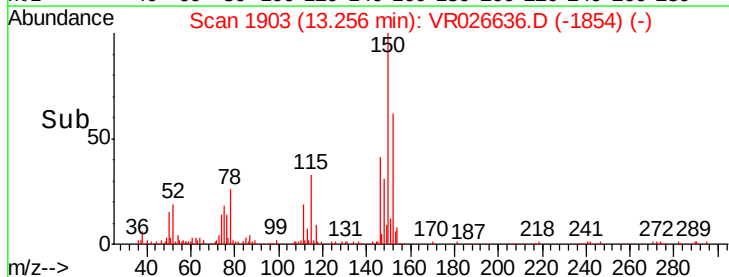
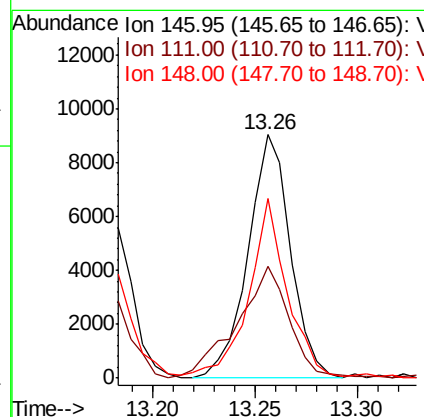
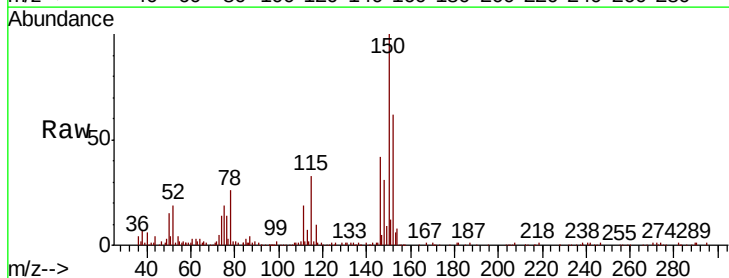
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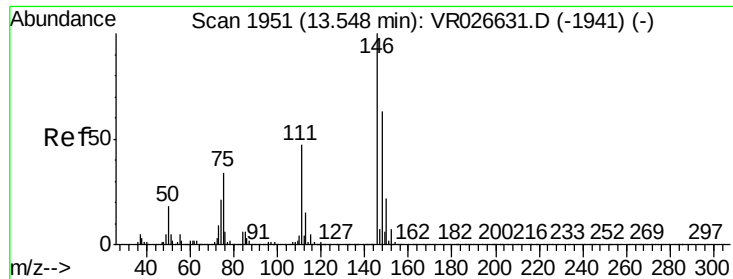
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#63
 1,4-Dichlorobenzene
 Concen: 0.320 ug/L
 RT: 13.26 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.0	31.1	57.9
148	74.0	44.6	82.8





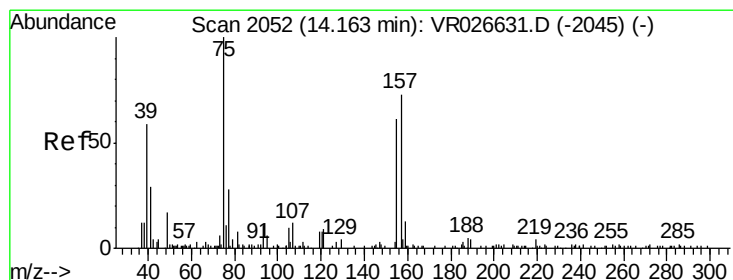
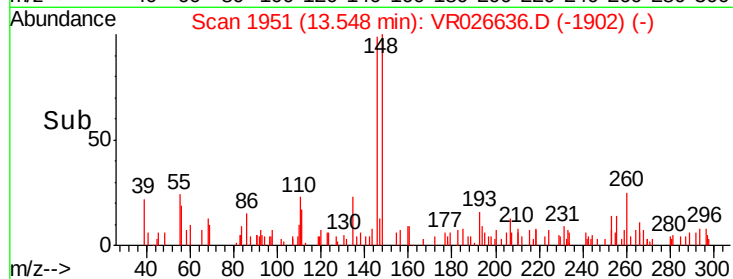
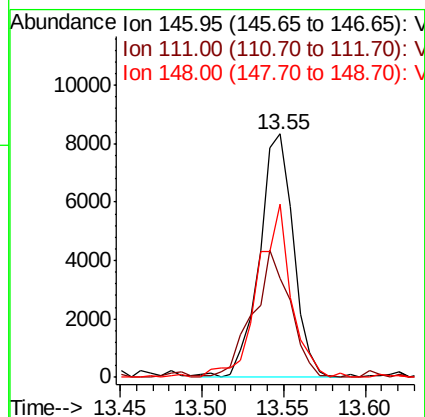
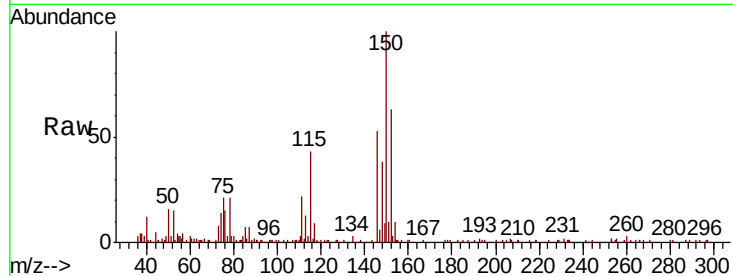
#65
 1,2-Dichlorobenzene
 Concen: 0.345 ug/L
 RT: 13.55 min Scan# 1951
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Instrument :
 MSVOA_R
 ClientSampled :
 MDL02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	38.2	57.2
148	71.2	50.1	75.1

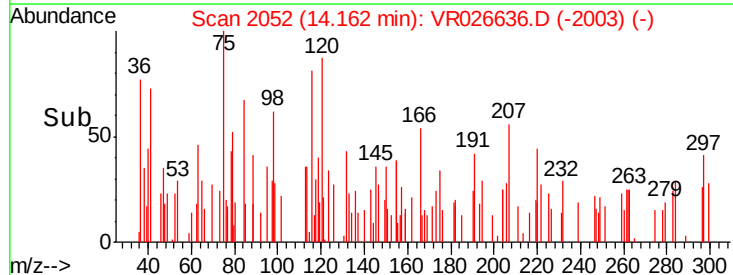
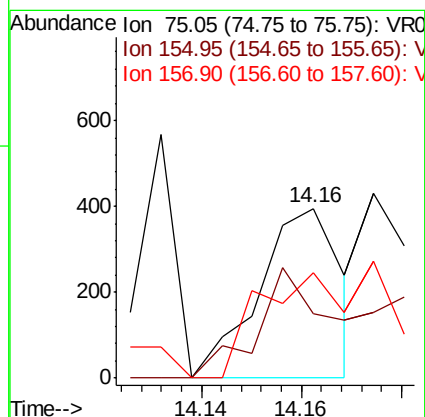
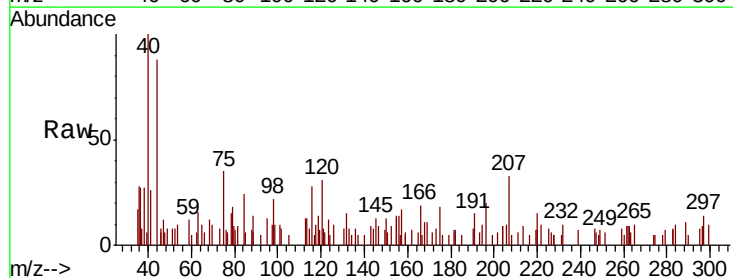
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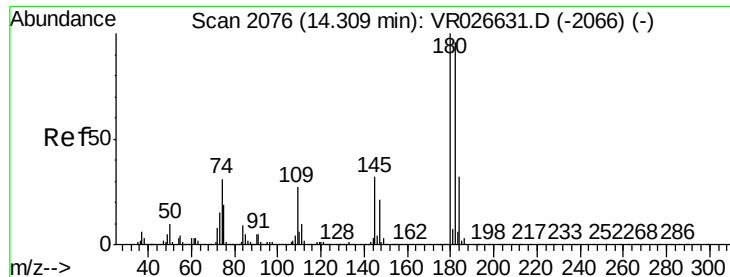
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.258 ug/L m
 RT: 14.16 min Scan# 2052
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	38.2	49.4	74.2#
157	49.1	65.2	97.8#





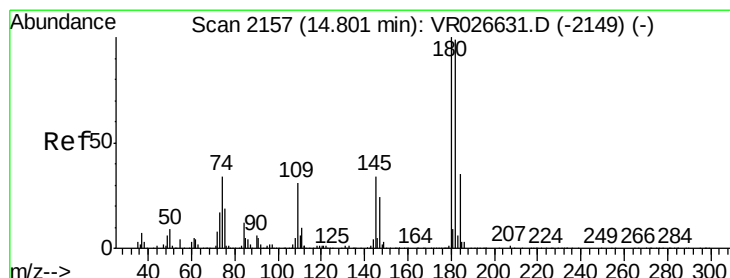
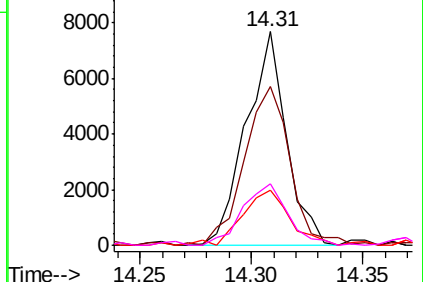
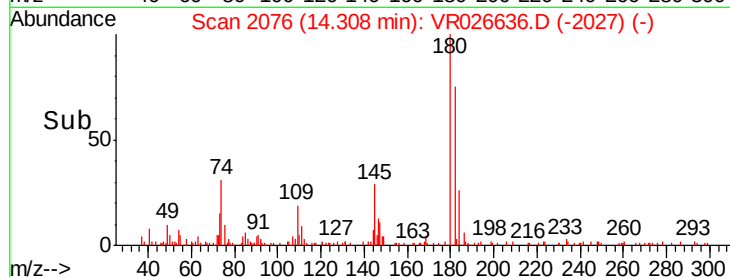
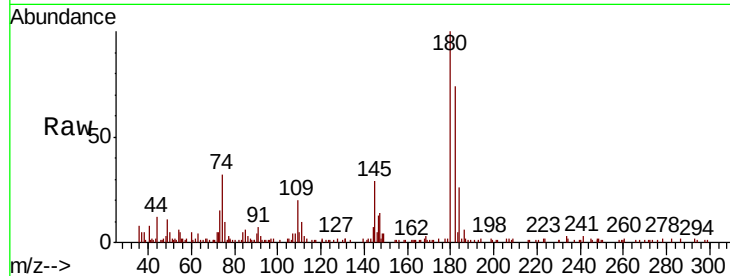
#67
 1,3,5-Trichlorobenzene
 Concen: 0.291 ug/L
 RT: 14.31 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	9685		
182	84.3	76.3	114.5	
184	30.8	24.4	36.6	
145	32.6	25.1	37.7	

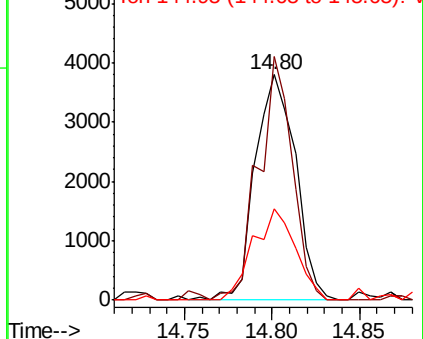
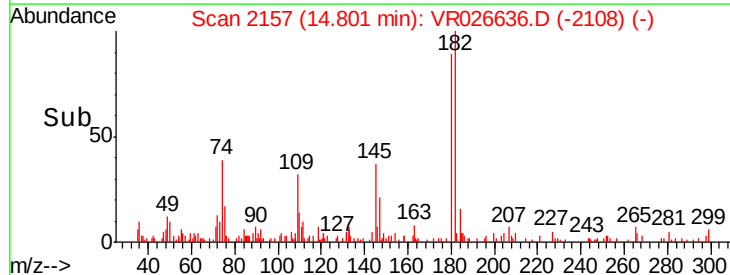
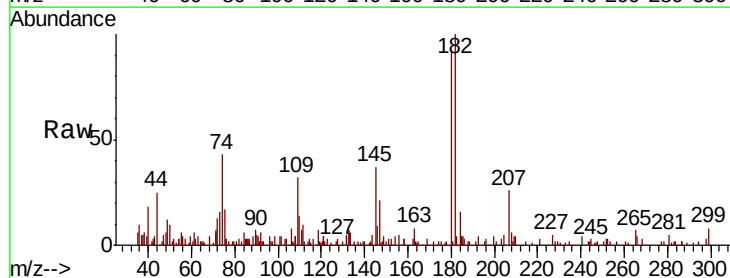
Manual Integrations
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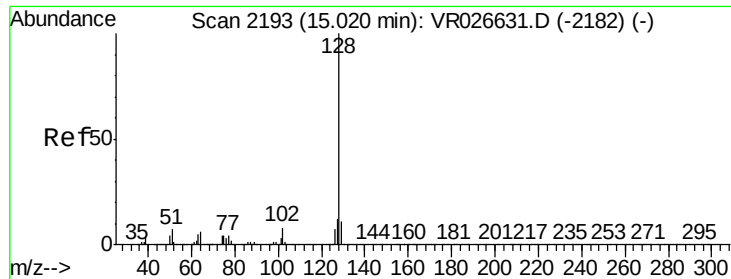
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 9/16/2019 12:45:01 AM



#68
 1,2,4-trichlorobenzene
 Concen: 0.259 ug/L
 RT: 14.80 min Scan# 2157
 Delta R.T. -0.00 min
 Lab File: VR026636.D
 Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	6075		
182	91.0	75.1	112.7	
145	42.4	25.9	38.9#	





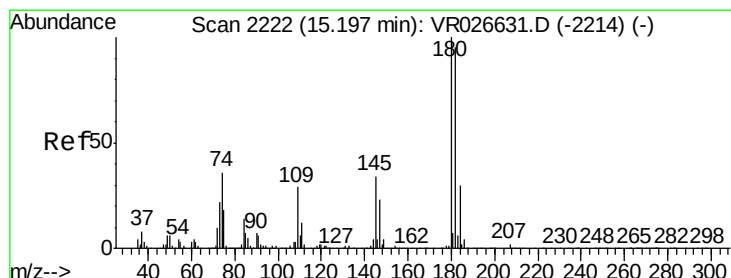
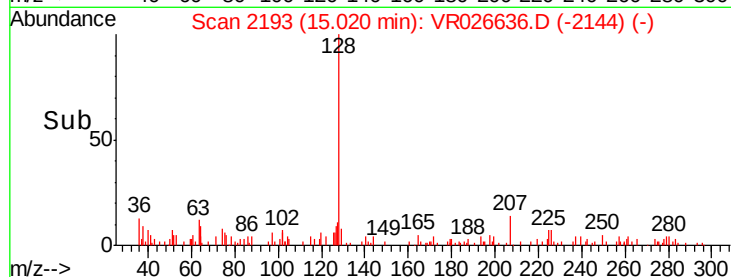
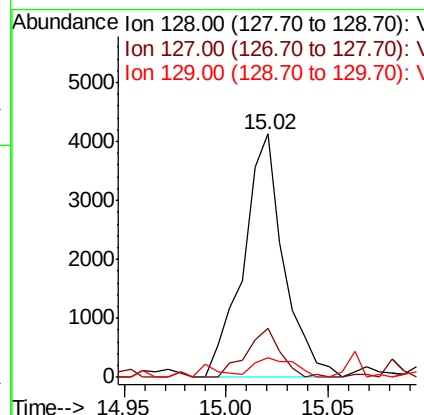
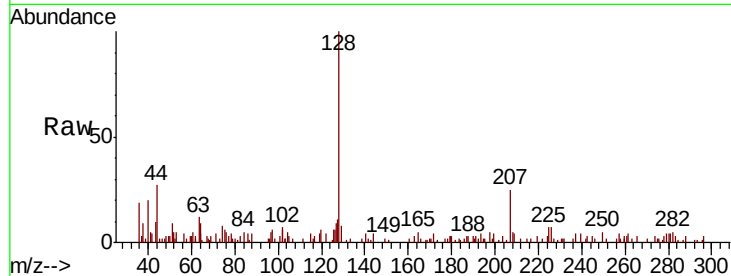
#69
Naphthalene
Concen: 0.183 ug/L
RT: 15.02 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Instrument :
MSVOA_R
ClientSampled :
MDL02

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	17.1	10.8	16.2#
129	7.9	8.9	13.3#

Manual Integrations
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MMDadoda
9/16/2019 12:45:01 AM



#70
1,2,3-Trichlorobenzene
Concen: 0.298 ug/L
RT: 15.20 min Scan# 2222
Delta R.T. -0.00 min
Lab File: VR026636.D
Acq: 13 Sep 2019 17:20

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	84.9	76.2	114.4
145	37.8	28.6	42.8

