

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101918\
 Data File : VR026144.D
 Acq On : 19 Oct 2018 11:51
 Operator : SY/MD
 Sample : MDL 0.25 PPB
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL 0.25 PPB

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 11:51:49 AM

Quant Time: Oct 20 04:40:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 20 01:53:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	634154	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	532955	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	170347	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	180875	3.26	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	65.20%
7) Chloroethane-d5	2.63	69	185716	3.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.80%
11) 1,1-Dichloroethene-d2	3.61	63	349190	2.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	51.20%#
20) 2-Butanone-d5	6.58	46	198844	43.64	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.28%
24) Chloroform-d	7.20	84	325863	3.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	73.80%
26) 1,2-Dichloroethane-d4	7.90	65	141024	3.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.80%
32) Benzene-d6	7.85	84	625640	3.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	73.00%
36) 1,2-Dichloropropane-d6	8.90	67	172237	3.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.80%
41) Toluene-d8	9.97	98	553969	3.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.60%#
43) trans-1,3-Dichloropropene-	10.23	79	36109	3.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	62.20%
46) 2-Hexanone-d5	10.59	63	151142	45.13	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.26%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	69728	4.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.40%
64) 1,2-Dichlorobenzene-d4	13.52	152	105257	3.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	78.20%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.84	85	10549m	0.248	ug/L	
3) Chloromethane	2.01	50	17432	0.258	ug/L	97
5) Vinyl chloride	2.15	62	19127	0.284	ug/L	99
6) Bromomethane	2.52	94	11312	0.254	ug/L	86
8) Chloroethane	2.66	64	11365	0.272	ug/L	96
9) Trichlorofluoromethane	2.94	101	25095m	0.258	ug/L	
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	19440	0.335	ug/L #	75
12) 1,1-Dichloroethene	3.62	96	19607	0.318	ug/L #	1
13) Acetone	3.70	43	14408	3.059	ug/L	88
14) Carbon disulfide	3.94	76	32179	0.200	ug/L #	94
15) Methyl Acetate	4.19	43	3077	0.250	ug/L #	86
16) Methylene chloride	4.41	84	17064	0.305	ug/L	90
17) Methyl tert-butyl Ether	4.89	73	11395m	0.204	ug/L	
18) trans-1,2-Dichloroethene	4.89	96	10482	0.225	ug/L #	81
19) 1,1-Dichloroethane	5.69	63	22693	0.259	ug/L	90
21) 2-Butanone	6.68	43	13426	2.471	ug/L	91
22) cis-1,2-Dichloroethene	6.67	96	11712	0.265	ug/L #	92

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 APPROVED

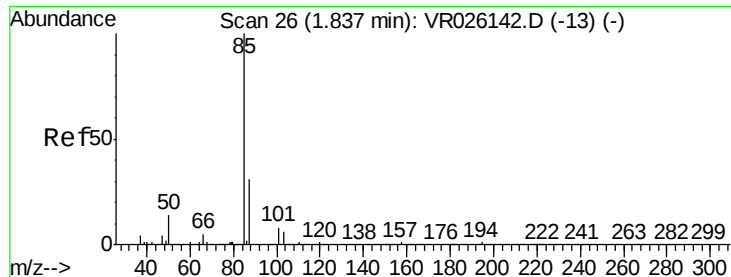
MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	7.06	128	3048	0.246	ug/L #	85
25) Chloroform	7.23	83	22734	0.266	ug/L	97
27) 1,2-Dichloroethane	7.99	62	10607	0.254	ug/L	96
29) 1,1,1-Trichloroethane	7.42	97	17417	0.239	ug/L	93
30) Cyclohexane	7.52	56	12846	0.176	ug/L	94
31) Carbon tetrachloride	7.63	117	16112	0.243	ug/L	99
33) Benzene	7.91	78	55010	0.275	ug/L	100
34) Trichloroethene	8.71	95	11710	0.229	ug/L #	78
35) Methylcyclohexane	8.96	83	16425	0.216	ug/L	95
37) 1,2-Dichloropropane	8.99	63	11131	0.264	ug/L	100
38) Bromodichloromethane	9.28	83	9988	0.220	ug/L	82
39) cis-1,3-Dichloropropene	9.72	75	9527	0.197	ug/L	86
40) 4-Methyl-2-pentanone	9.87	43	26380	2.047	ug/L #	86
42) Toluene	10.03	91	49380	0.234	ug/L	96
44) trans-1,3-Dichloropropene	10.26	75	8865	0.263	ug/L	98
45) 1,1,2-Trichloroethane	10.45	97	5158	0.290	ug/L #	70
47) Tetrachloroethene	10.51	164	7428	0.203	ug/L	90
48) 2-Hexanone	10.63	43	20928	2.487	ug/L	98
49) Dibromochloromethane	10.79	129	3909	0.195	ug/L	97
50) 1,2-Dibromoethane	10.89	107	3982	0.259	ug/L #	76
51) Chlorobenzene	11.32	112	26623	0.228	ug/L	94
52) Ethylbenzene	11.39	91	52097	0.215	ug/L	97
53) m,p-Xylene	11.50	106	17094	0.193	ug/L	97
54) o-Xylene	11.83	106	12780	0.158	ug/L	99
55) Styrene	11.84	104	19357	0.155	ug/L	93
56) Isopropylbenzene	12.13	105	38315	0.170	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.38	83	4365	0.241	ug/L #	87
59) 1,2,3-Trichloropropane	12.44	75	3663	0.276	ug/L	95
61) Bromoform	12.01	173	1658	0.280	ug/L	94
62) 1,3-Dichlorobenzene	13.16	146	12108	0.214	ug/L	89
63) 1,4-Dichlorobenzene	13.24	146	14637	0.250	ug/L	96
65) 1,2-Dichlorobenzene	13.53	146	12763	0.281	ug/L #	80
66) 1,2-Dibromo-3-chloropropan	14.14	75	707m	0.382	ug/L	
67) 1,3,5-Trichlorobenzene	14.29	180	8855	0.257	ug/L	88
68) 1,2,4-trichlorobenzene	14.78	180	4656	0.231	ug/L	92
69) Naphthalene	15.01	128	3213	0.164	ug/L #	77
70) 1,2,3-Trichlorobenzene	15.18	180	3218	0.230	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 0.248 ug/L m

RT: 1.84 min Scan# 27

Delta R.T. 0.01 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Instrument :

MSVOA_R

ClientSampleId :

MDL 0.25 PPB

Tot Ion: 85 Resp: 10549

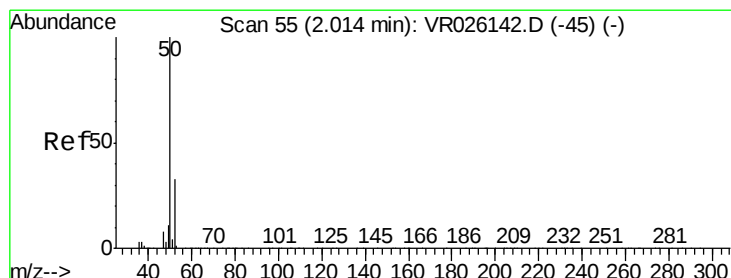
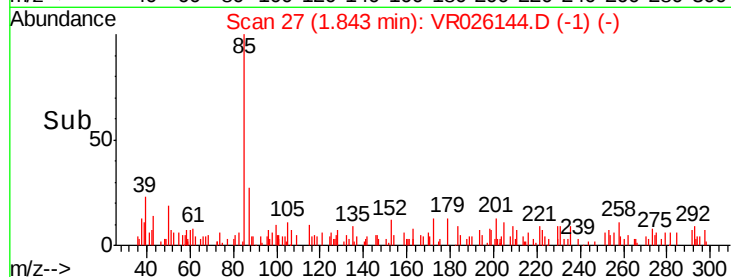
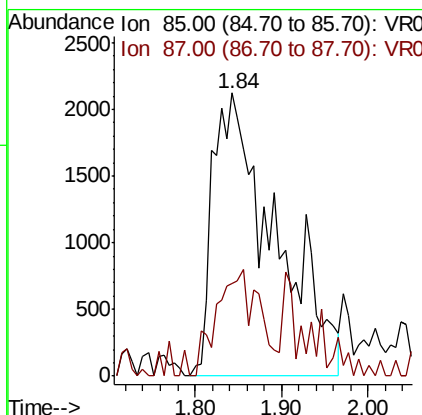
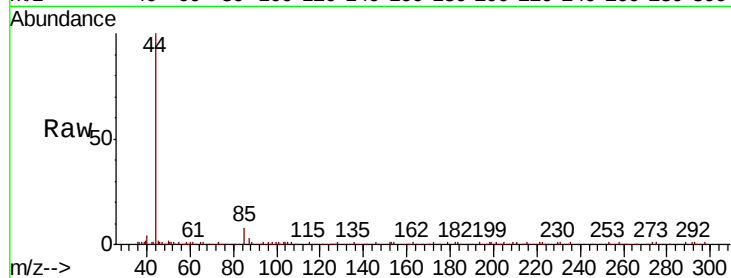
Ion Ratio Lower Upper

85 100

87 18.1 23.4 35.2#

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#3

Chloromethane

Concen: 0.258 ug/L

RT: 2.01 min Scan# 55

Delta R.T. 0.00 min

Lab File: VR026144.D

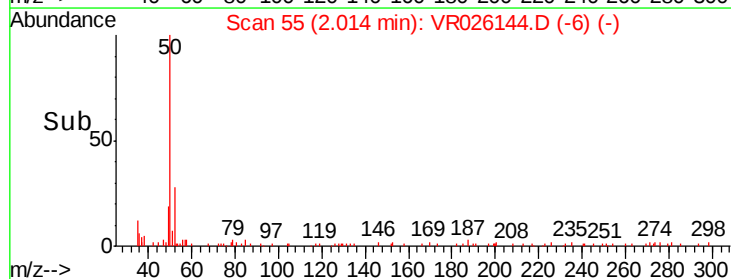
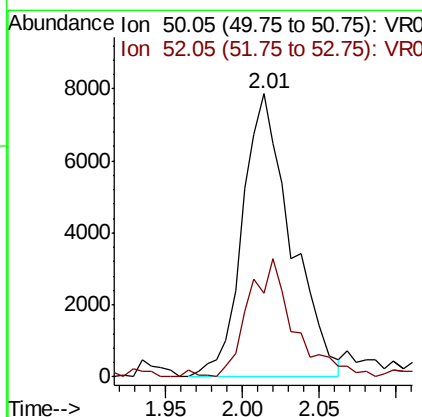
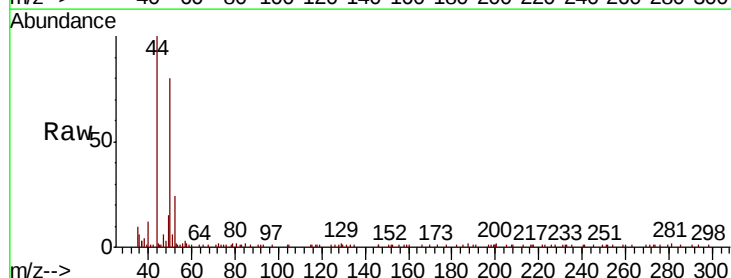
Acq: 19 Oct 2018 11:51

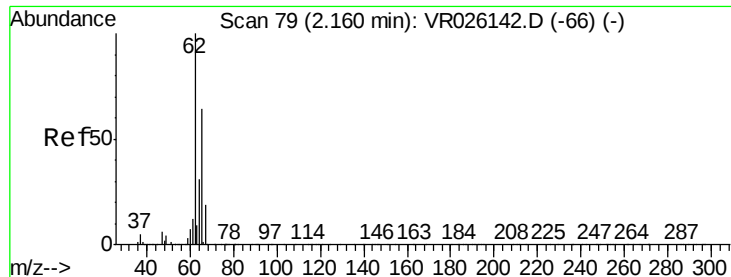
Tgt Ion: 50 Resp: 17432

Ion Ratio Lower Upper

50 100

52 29.6 22.0 40.8





#5

Vinyl chloride

Concen: 0.284 ug/L

RT: 2.15 min Scan# 78

Delta R.T. -0.01 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Instrument :

MSVOA_R

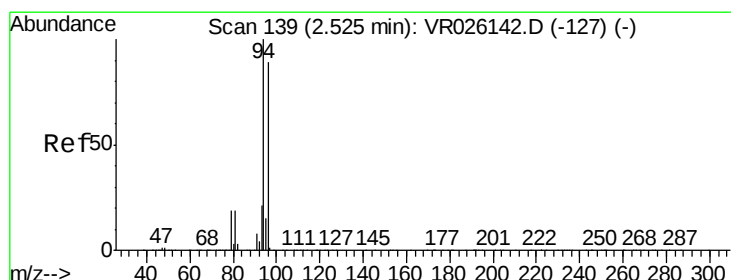
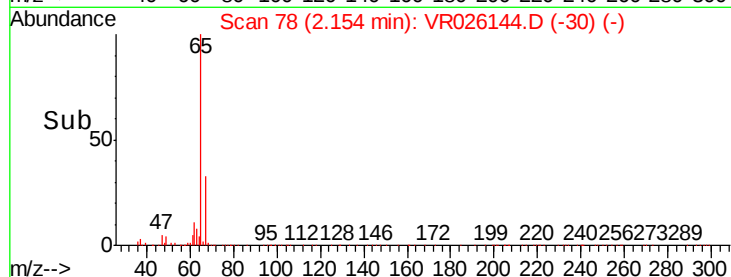
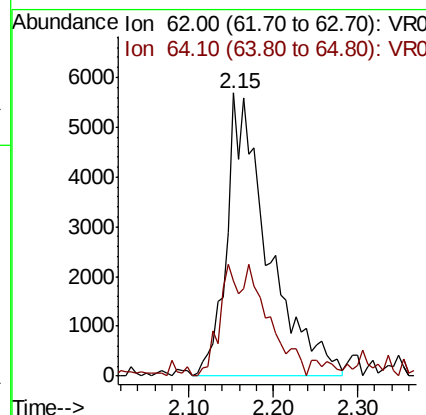
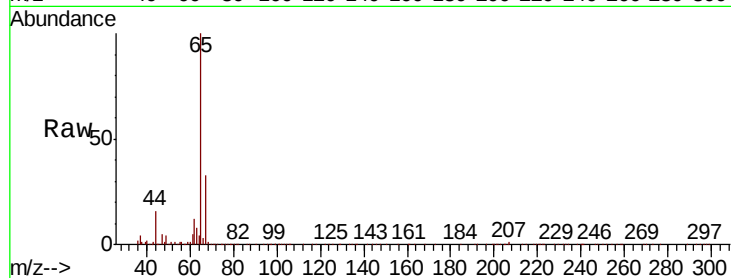
ClientSampleId :

MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
62	100		
64	33.5	23.9	44.3

Manual Integrations
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10/24/2018 11:51:49 AM



#6

Bromomethane

Concen: 0.254 ug/L

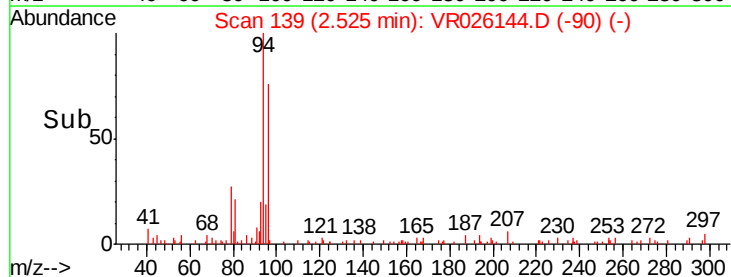
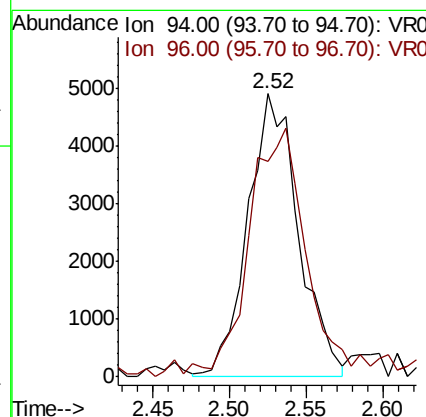
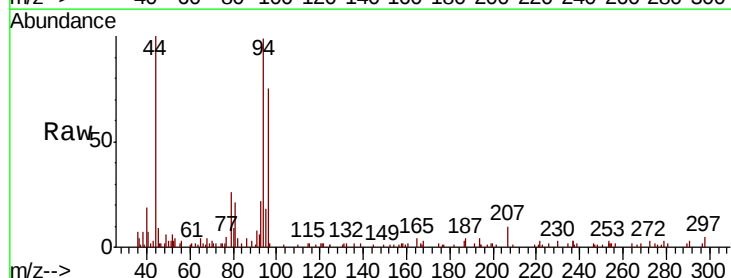
RT: 2.52 min Scan# 139

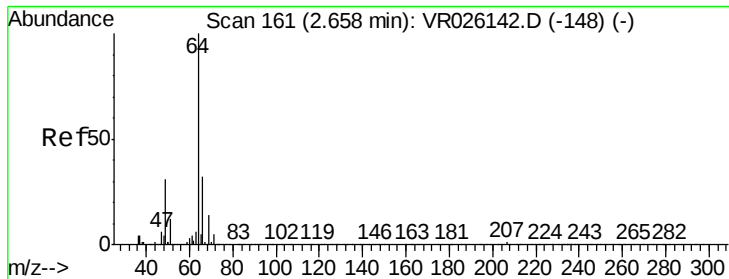
Delta R.T. 0.00 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
94	100		
96	76.1	62.5	116.1





#8

Chloroethane

Concen: 0.272 ug/L

RT: 2.66 min Scan# 161

Delta R.T. 0.00 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Instrument :

MSVOA_R

ClientSampleId :

MDL 0.25 PPB

Tot Ion: 64 Resp: 11365

Ion Ratio Lower Upper

64 100

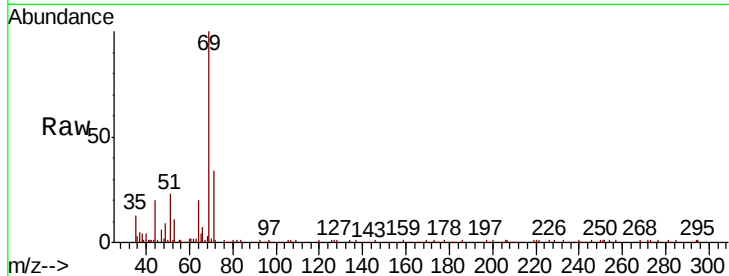
66 33.7 22.0 40.8

Manual Integrations

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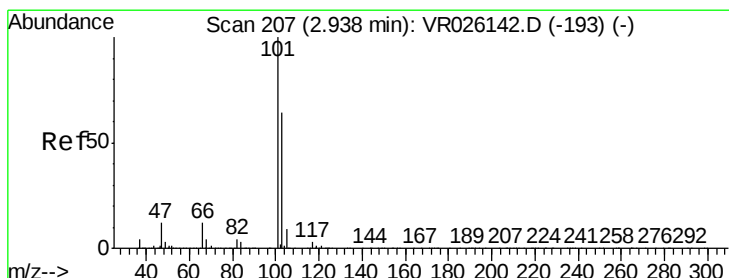
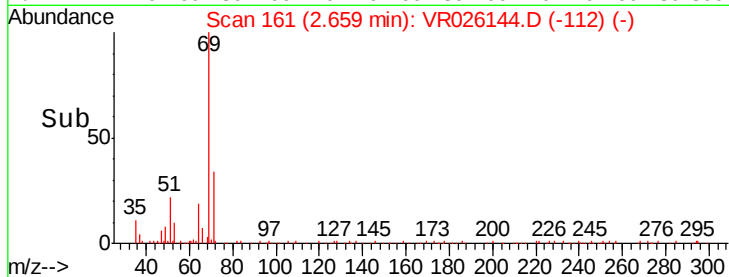
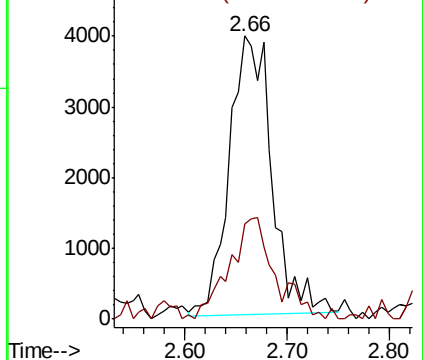
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Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0



#9

Trichlorofluoromethane

Concen: 0.258 ug/L m

RT: 2.94 min Scan# 208

Delta R.T. 0.01 min

Lab File: VR026144.D

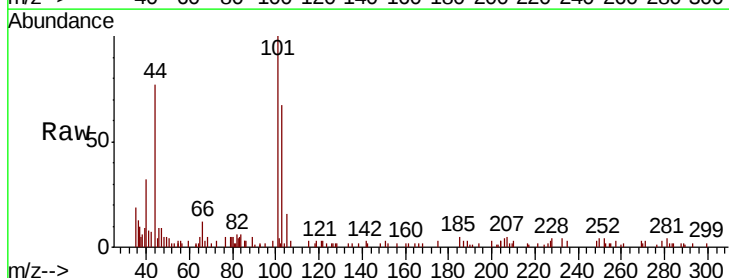
Acq: 19 Oct 2018 11:51

Tgt Ion: 101 Resp: 25095

Ion Ratio Lower Upper

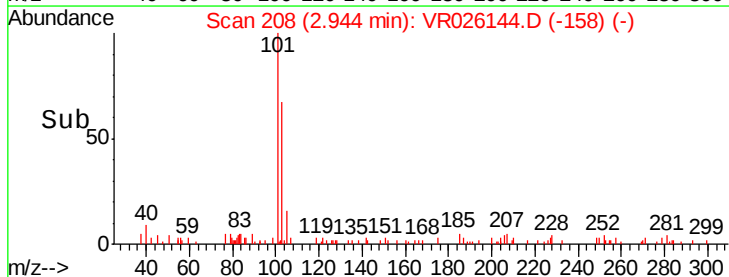
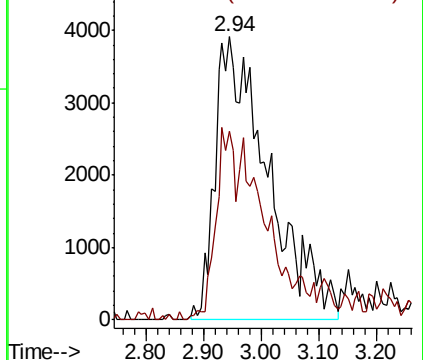
101 100

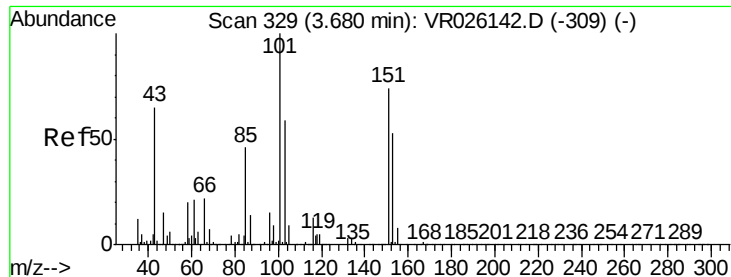
103 2.0 26.0 39.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.335 ug/L

RT: 3.69 min Scan# 330

Delta R.T. 0.01 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Instrument :

MSVOA_R

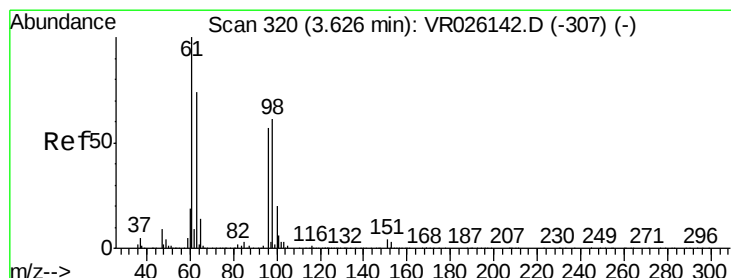
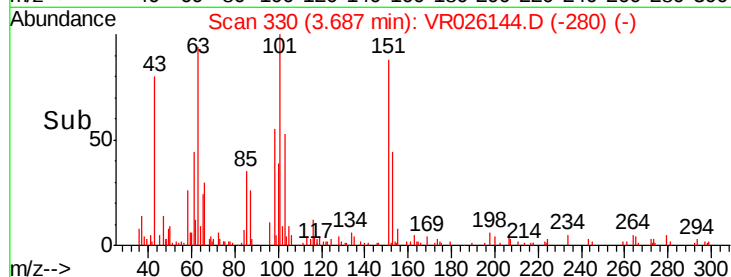
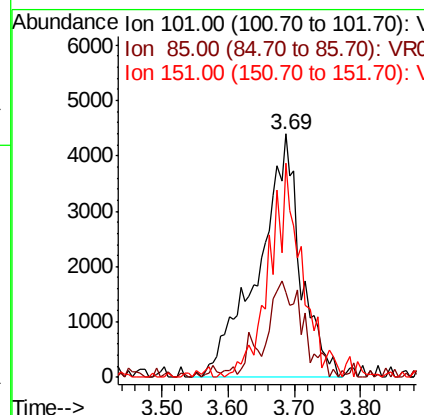
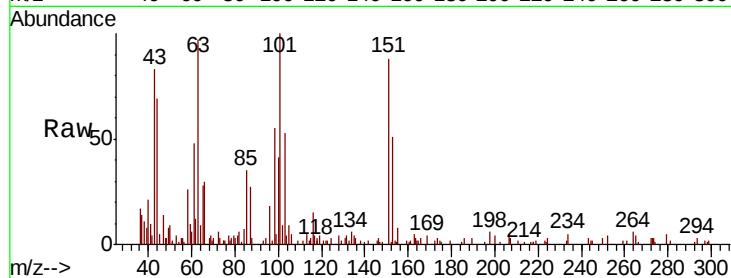
ClientSampleId :

MDL 0.25 PPB

Tot Ion:	101	Resp:	19440
Ion Ratio	Lower	Upper	
101	100		
85	19.7	37.8	56.8#
151	65.4	63.2	94.8

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#12

1,1-Dichloroethene

Concen: 0.318 ug/L

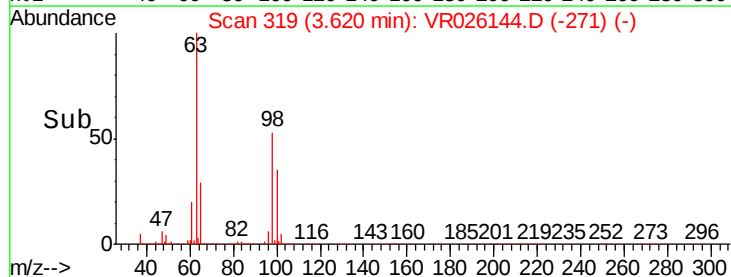
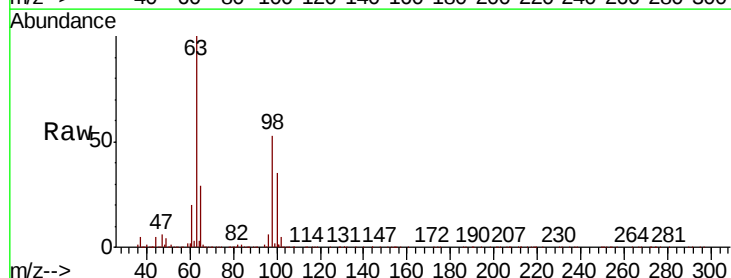
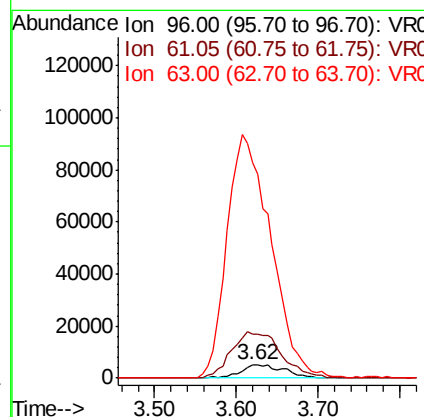
RT: 3.62 min Scan# 319

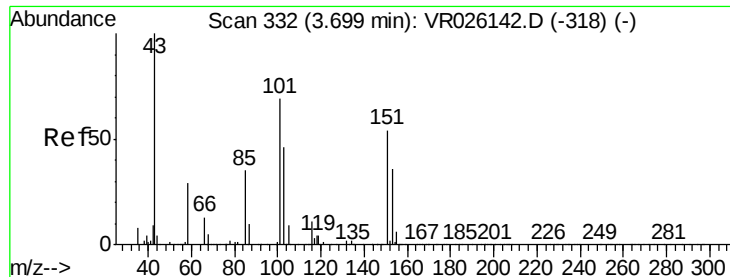
Delta R.T. -0.01 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Tgt Ion:	96	Resp:	19607
Ion Ratio	Lower	Upper	
96	100		
61	322.9	126.7	235.3#
63	1594.0	125.0	232.2#





#13

Acetone

Concen: 3.059 ug/L

RT: 3.70 min Scan# 333

Delta R.T. 0.01 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Instrument :

MSVOA_R

ClientSampleId :

MDL 0.25 PPB

Tot Ion: 43 Resp: 14408

Ion Ratio Lower Upper

43 100

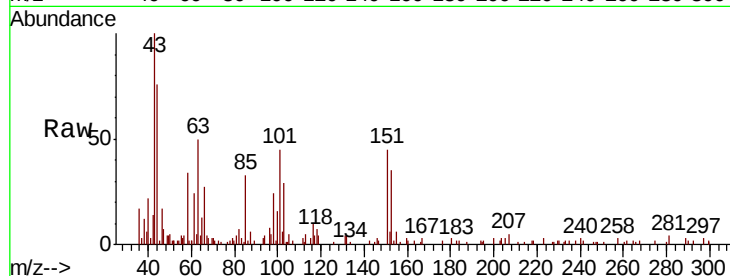
58 34.2 0.0 55.4

Manual Integrations

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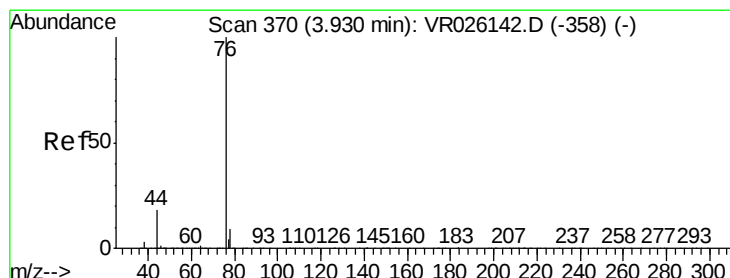
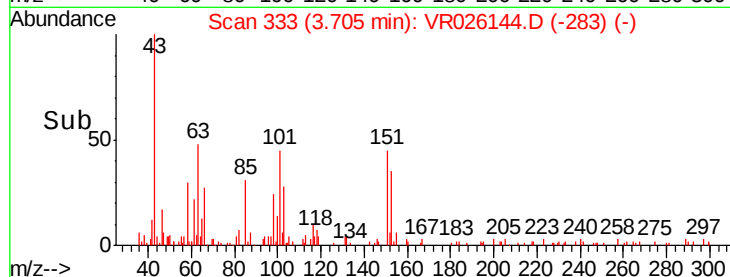
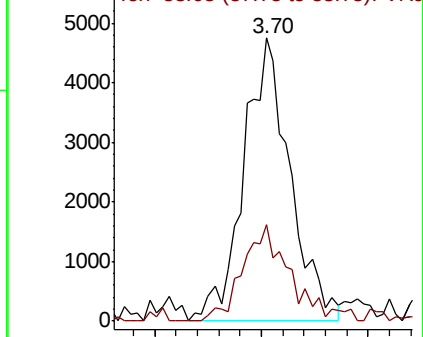
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10/24/2018 11:51:49 AM



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0



#14

Carbon disulfide

Concen: 0.200 ug/L

RT: 3.94 min Scan# 371

Delta R.T. 0.01 min

Lab File: VR026144.D

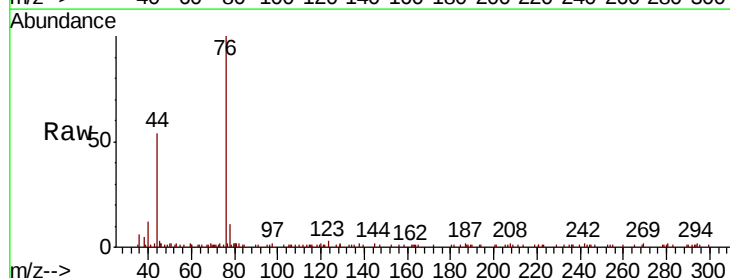
Acq: 19 Oct 2018 11:51

Tgt Ion: 76 Resp: 32179

Ion Ratio Lower Upper

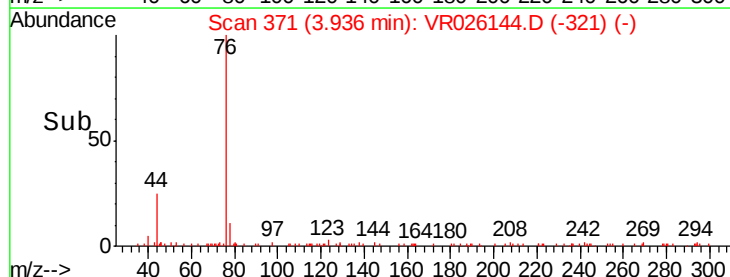
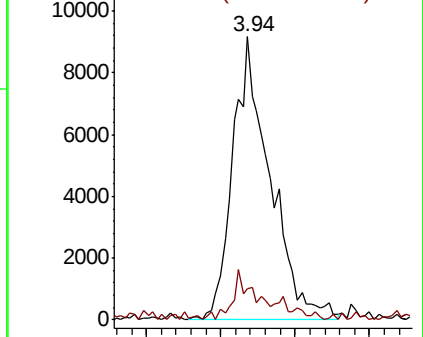
76 100

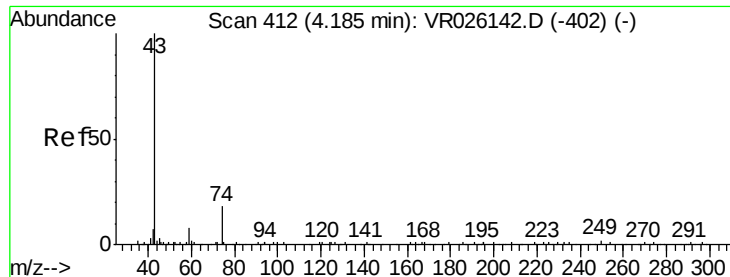
78 11.5 7.6 11.4#



Abundance Ion 76.05 (75.75 to 76.75): VR0

Ion 78.00 (77.70 to 78.70): VR0





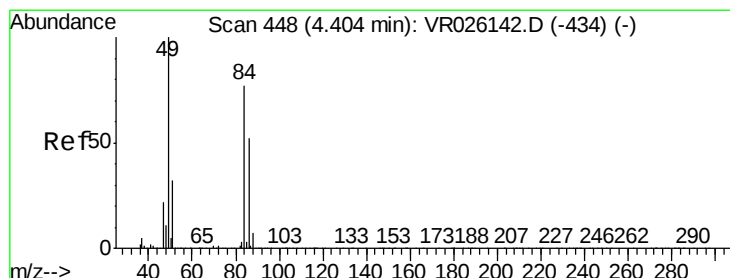
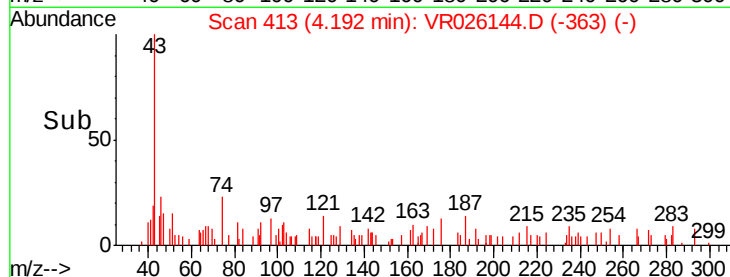
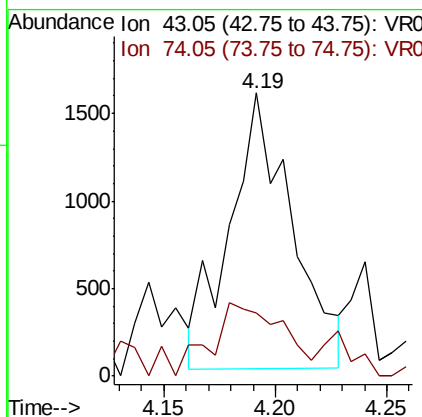
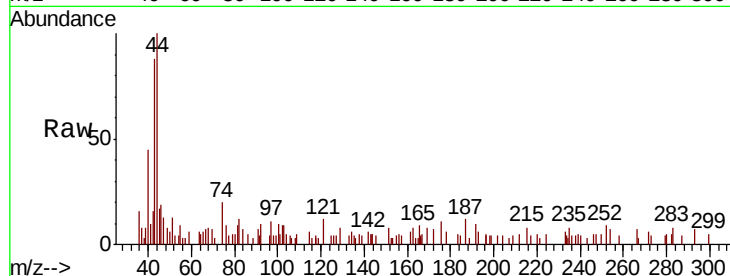
#15
Methyl Acetate
Concen: 0.250 ug/L
RT: 4.19 min Scan# 413
Delta R.T. 0.01 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion: 43 Resp: 3077
Ion Ratio Lower Upper
43 100
74 32.0 19.8 29.8#

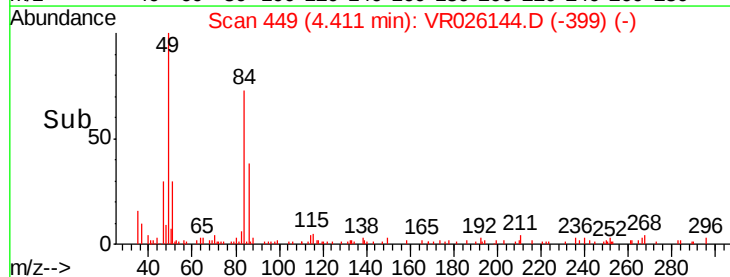
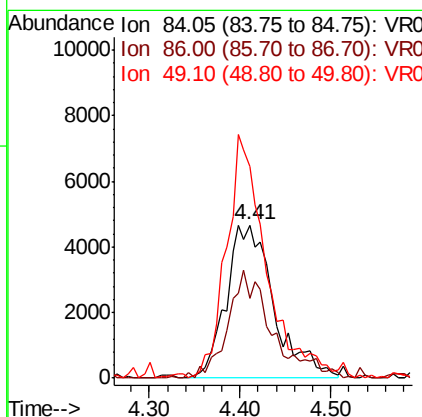
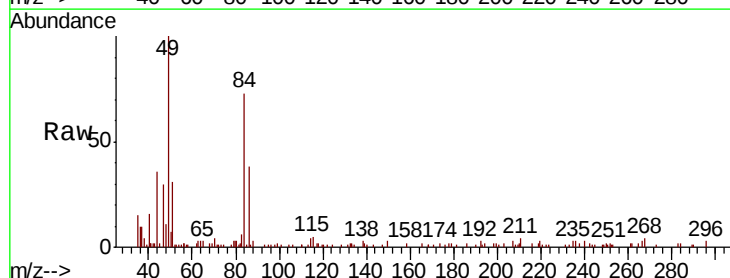
Manual Integrations
APPROVED

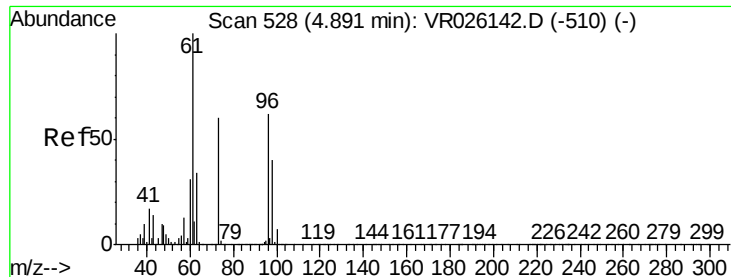
MMDadoda
10/24/2018 11:51:49 AM



#16
Methylene chloride
Concen: 0.305 ug/L
RT: 4.41 min Scan# 449
Delta R.T. 0.01 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion: 84 Resp: 17064
Ion Ratio Lower Upper
84 100
86 52.1 43.0 79.8
49 137.7 89.1 165.5





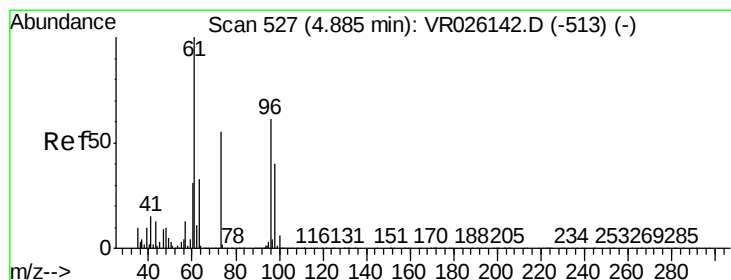
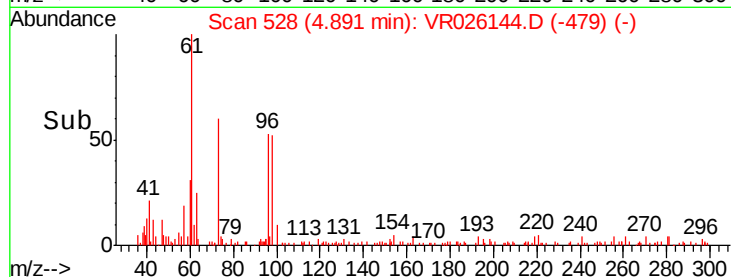
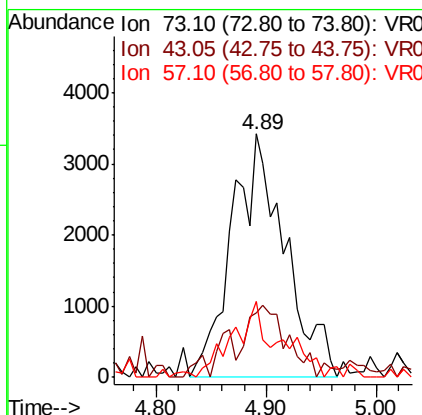
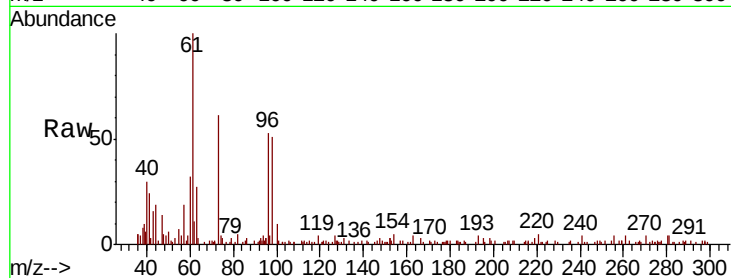
#17
Methvl tert-butvl Ether
Concen: 0.204 ug/L m
RT: 4.89 min Scan# 528
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
73	100		
43	21.8	20.1	30.1
57	18.1	19.0	28.4

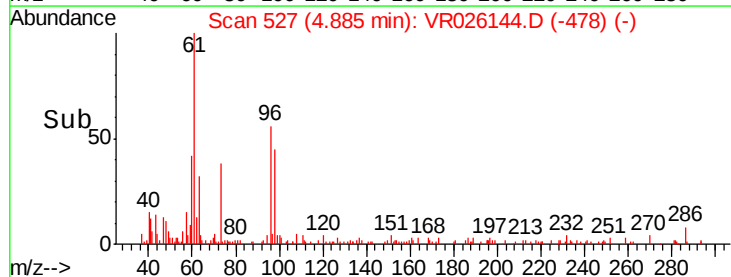
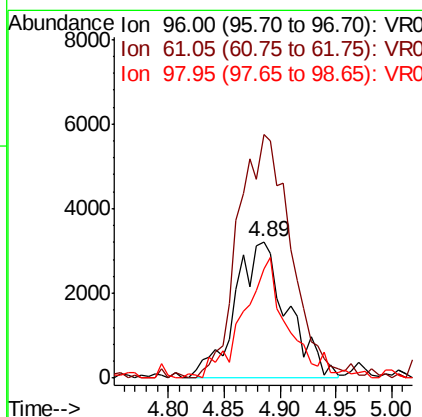
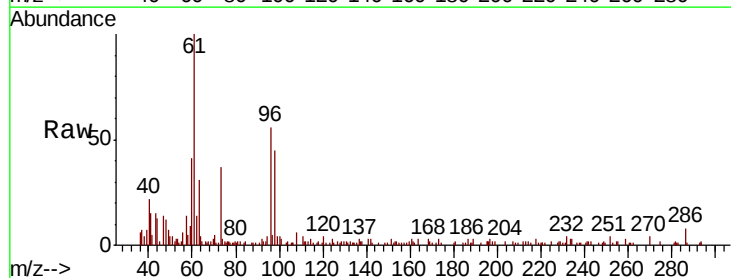
Manual Integrations
APPROVED

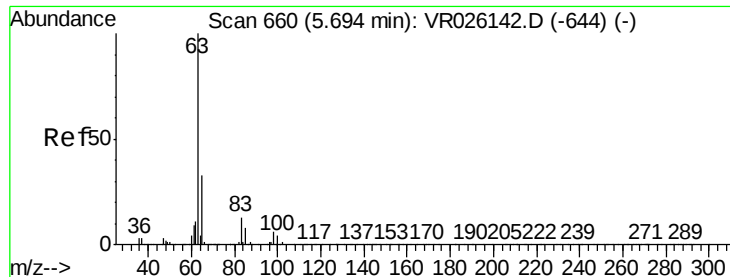
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#18
trans-1,2-Dichloroethene
Concen: 0.225 ug/L
RT: 4.89 min Scan# 527
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	178.8	111.4	206.8
98	80.4	41.4	77.0





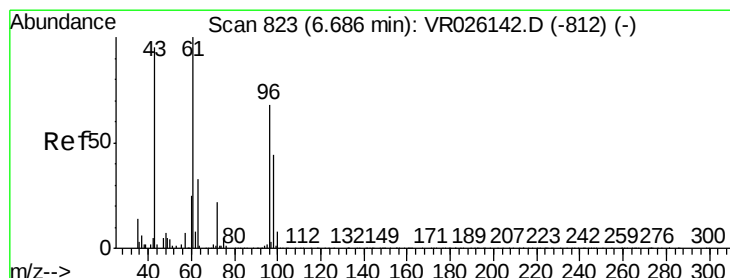
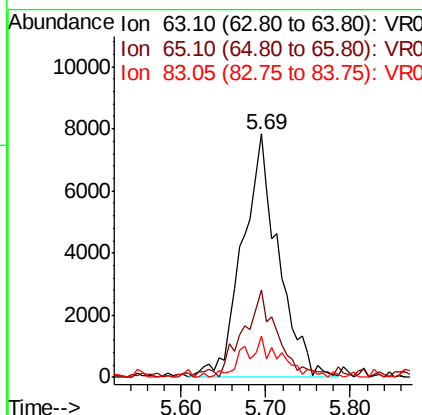
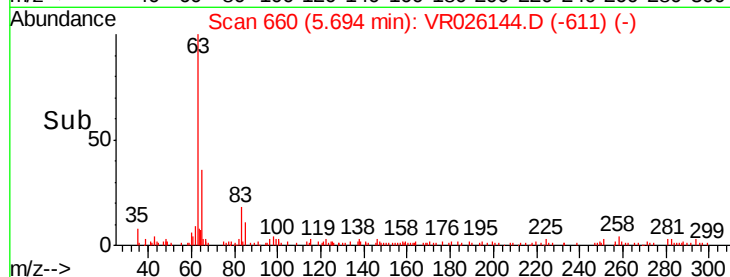
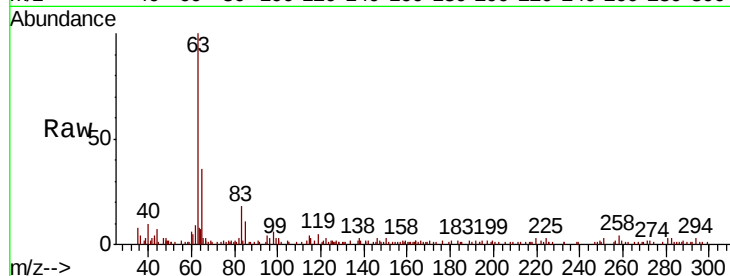
#19
 1,1-Dichloroethane
 Concen: 0.259 ug/L
 RT: 5.69 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
63	100		
65	36.2	21.2	39.4
83	16.9	9.2	17.2

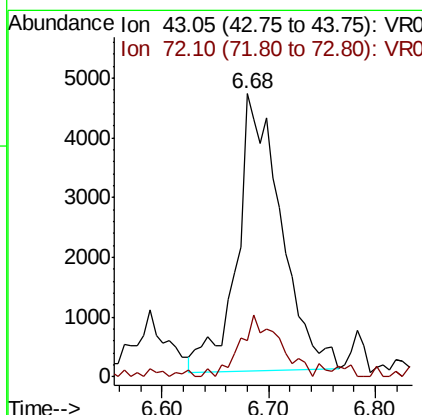
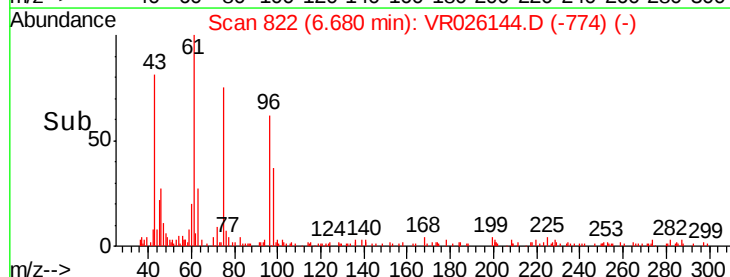
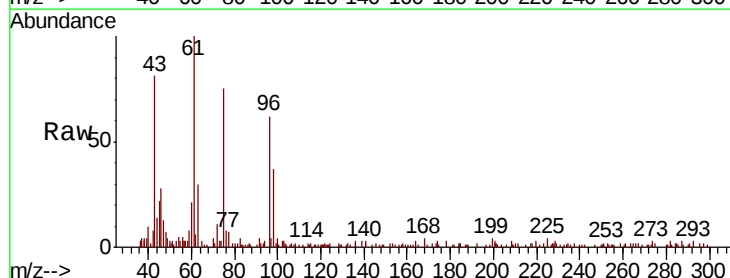
Manual Integrations
 APPROVED

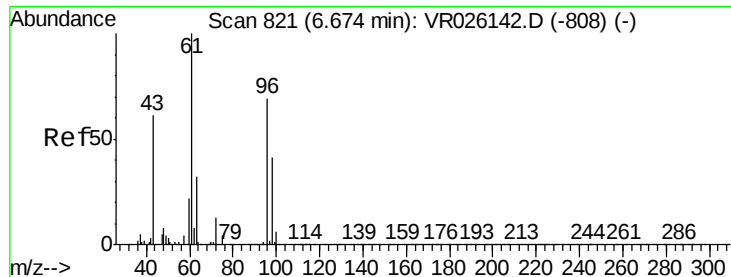
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 10/24/2018 11:51:49 AM



#21
 2-Butanone
 Concen: 2.471 ug/L
 RT: 6.68 min Scan# 822
 Delta R.T. -0.01 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.8	12.3	36.8





#22

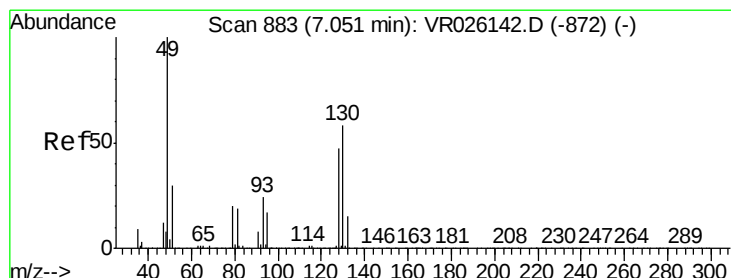
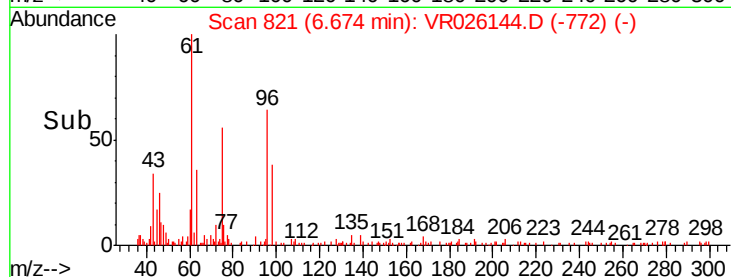
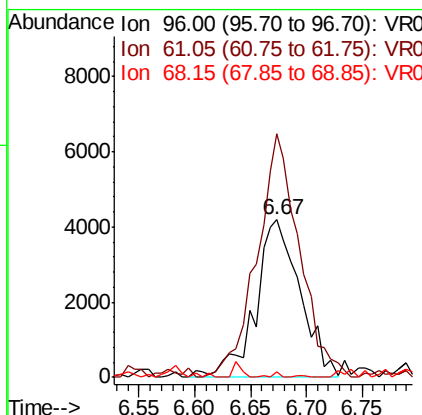
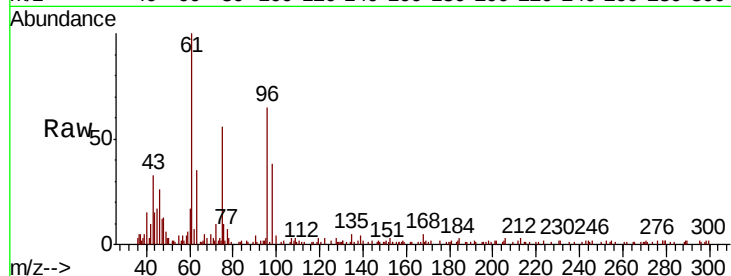
cis-1,2-Dichloroethene
Concen: 0.265 ug/L
RT: 6.67 min Scan# 821
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.8	101.8	189.0
68	3.9	0.1	0.3#

Manual Integrations
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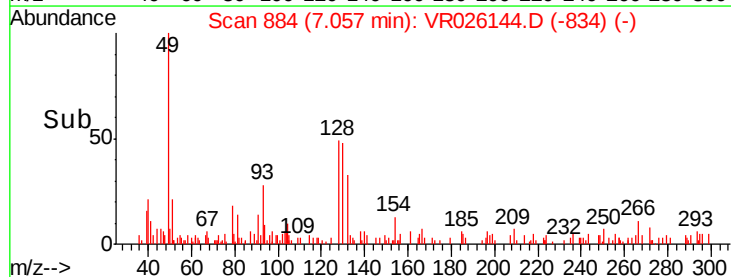
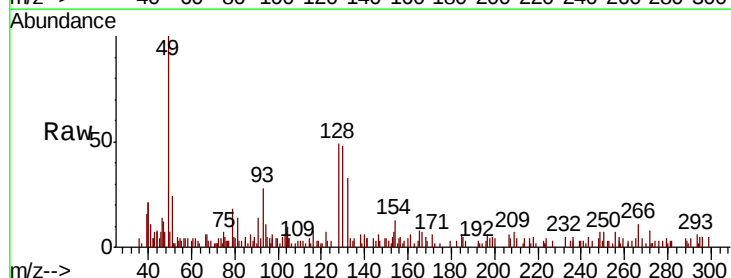
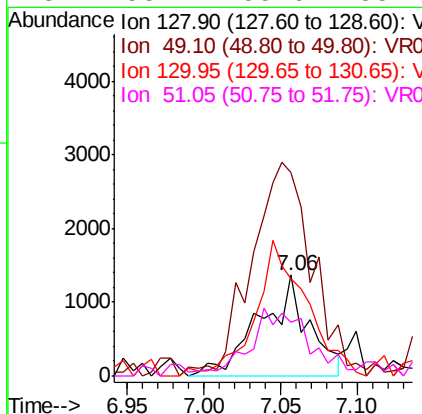
MMDadoda
10/24/2018 11:51:49 AM

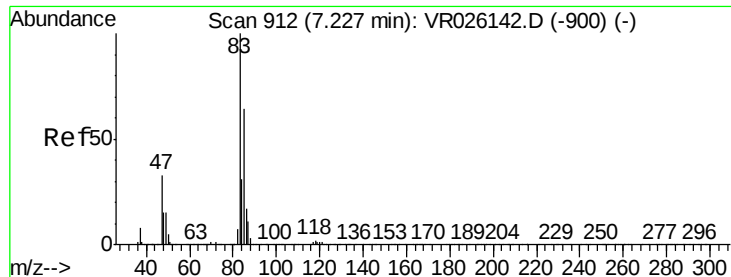


#23

Bromochloromethane
Concen: 0.246 ug/L
RT: 7.06 min Scan# 884
Delta R.T. 0.01 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
128	100		
49	202.7	146.2	271.4
130	96.7	92.5	171.7
51	53.1	55.6	83.4#





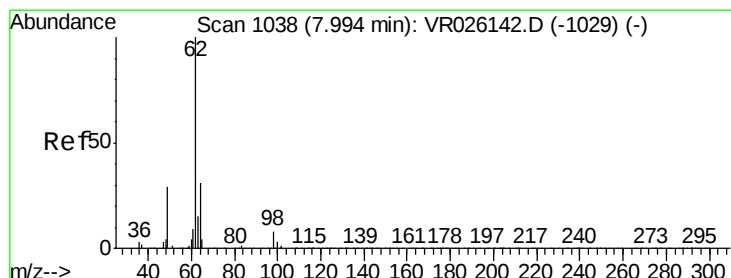
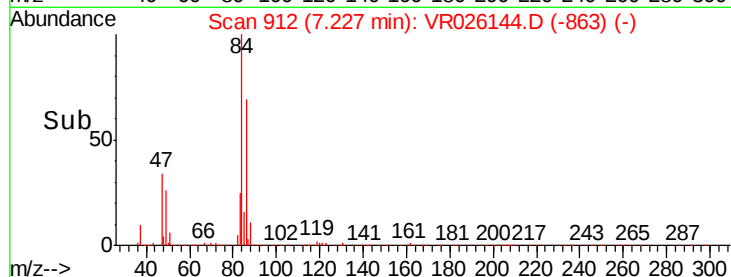
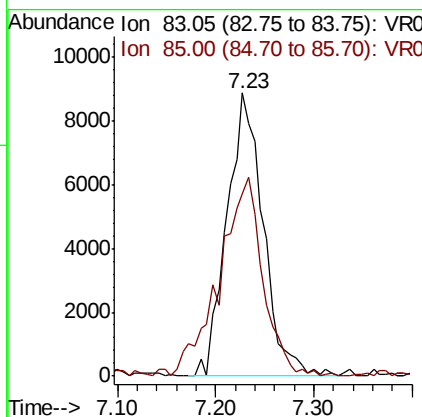
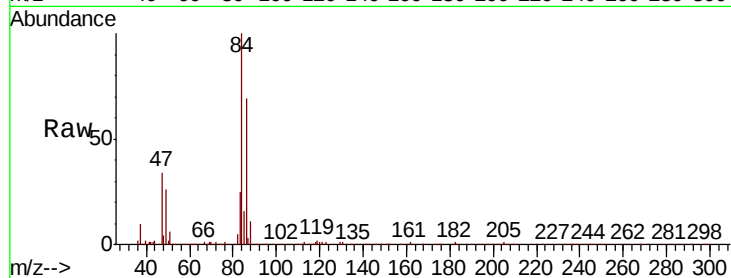
#25
Chloroform
Concen: 0.266 ug/L
RT: 7.23 min Scan# 912
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	83	Resp	22734
Ion Ratio	100	Lower	Upper
85	64.3	43.5	80.7

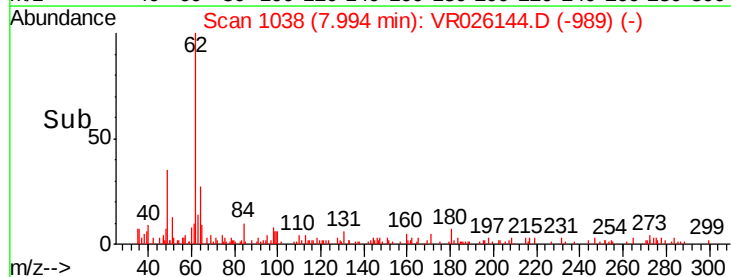
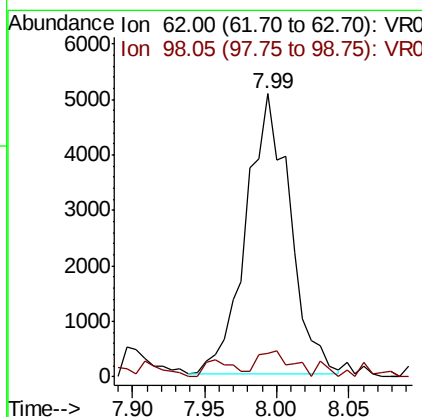
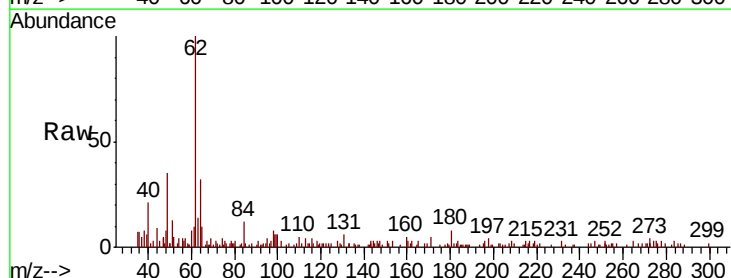
Manual Integrations
APPROVED

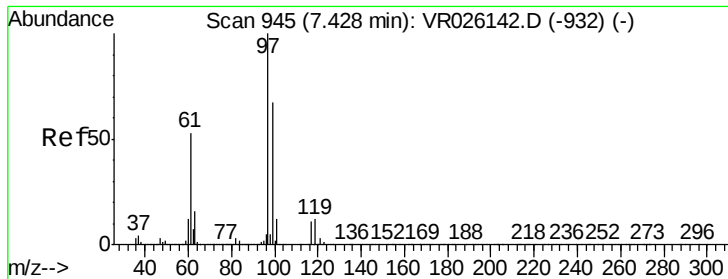
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#27
1,2-Dichloroethane
Concen: 0.254 ug/L
RT: 7.99 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion	62	Resp	10607
Ion Ratio	100	Lower	Upper
98	8.3	5.6	8.4





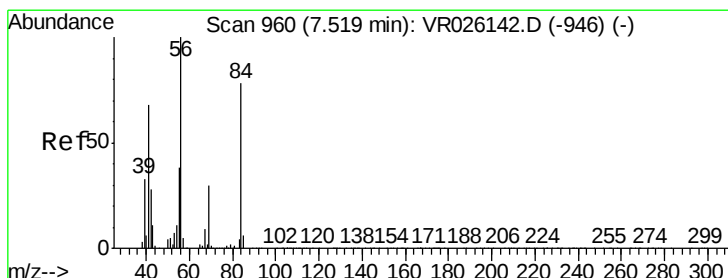
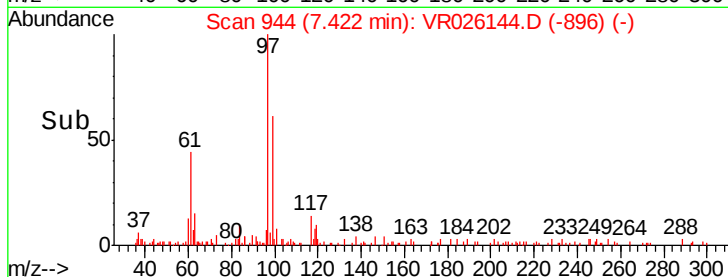
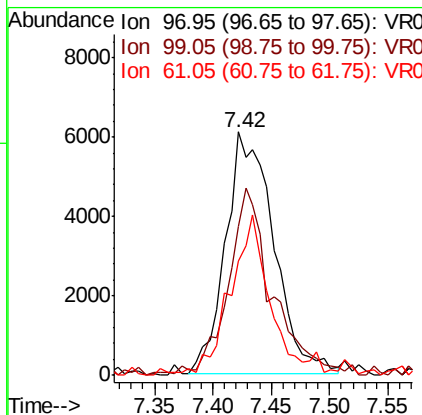
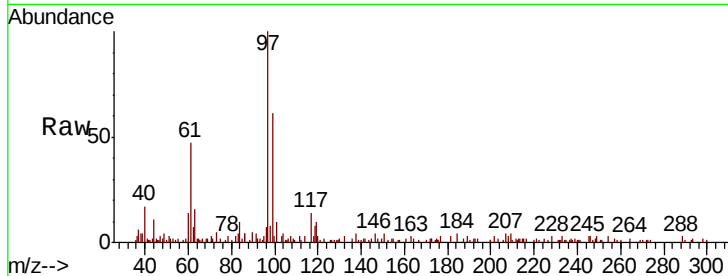
#29
1,1,1-Trichloroethane
Concen: 0.239 ug/L
RT: 7.42 min Scan# 944
Delta R.T. -0.01 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion:	97	Resp:	17417
Ion Ratio	Lower	Upper	
97	100		
99	71.9	51.1	76.7
61	55.0	42.1	63.1

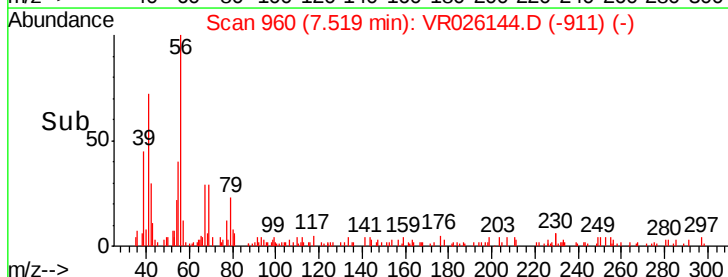
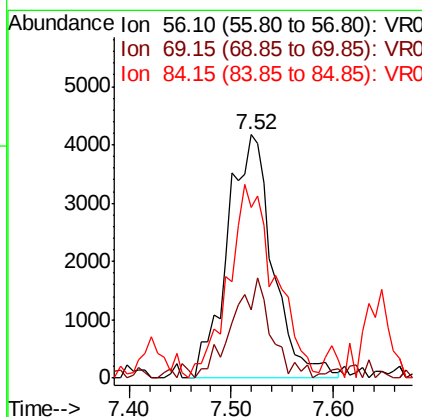
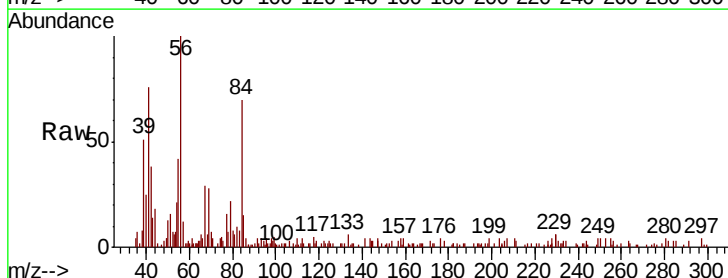
Manual Integrations
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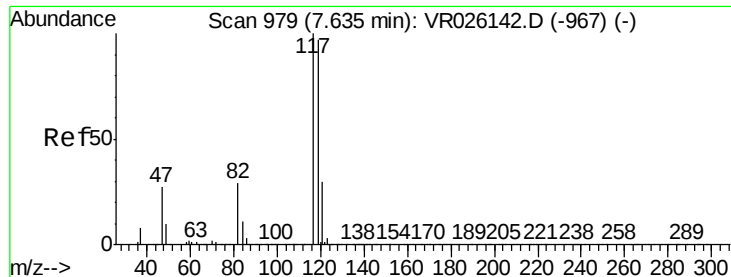
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#30
Cyclohexane
Concen: 0.176 ug/L
RT: 7.52 min Scan# 960
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion:	56	Resp:	12846
Ion Ratio	Lower	Upper	
56	100		
69	35.2	23.8	35.8
84	81.1	62.2	93.4





#31

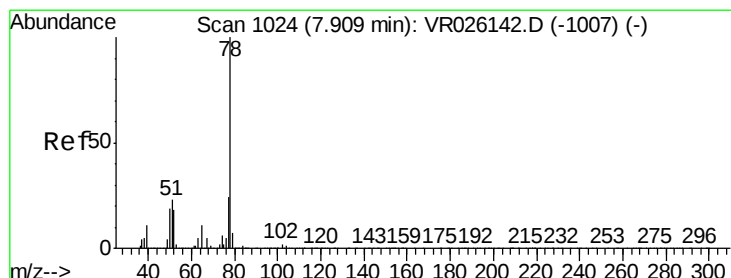
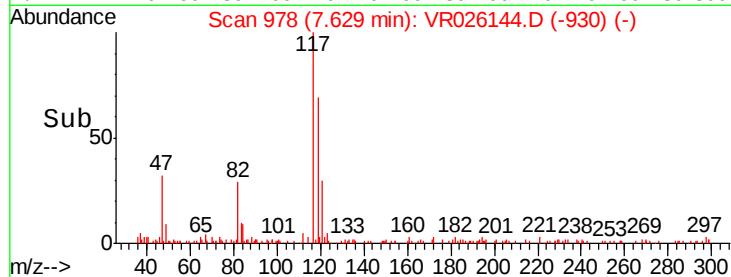
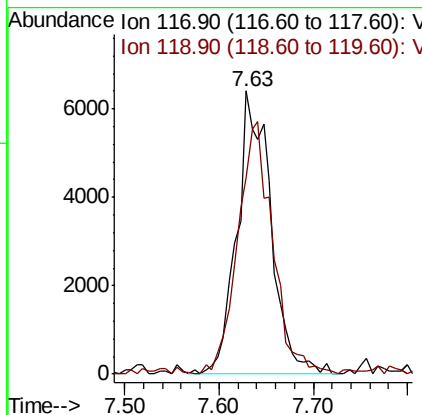
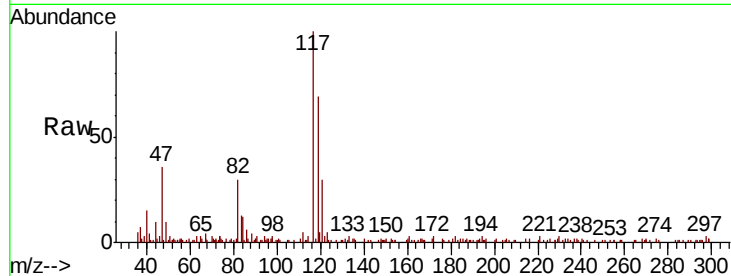
Carbon tetrachloride
Concen: 0.243 ug/L
RT: 7.63 min Scan# 978
Delta R.T. -0.01 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
117	100		
119	91.6	74.2	111.2

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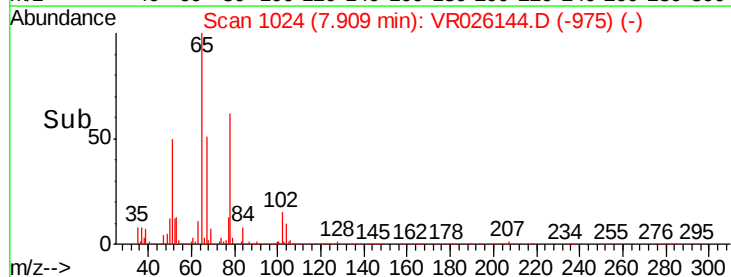
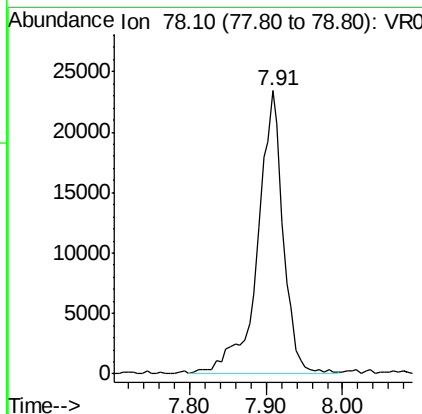
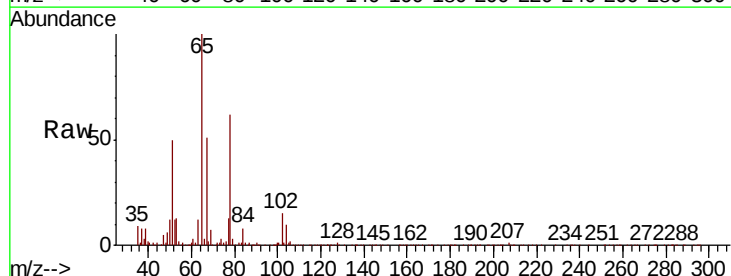
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10/24/2018 11:51:49 AM

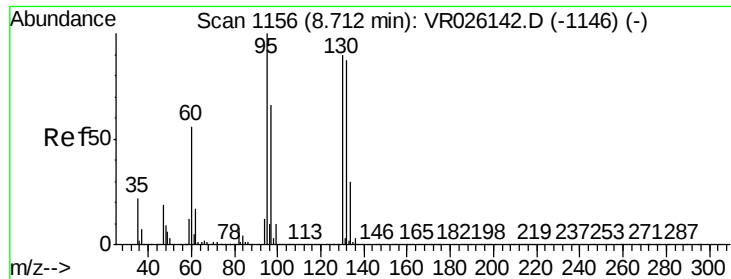


#33

Benzene
Concen: 0.275 ug/L
RT: 7.91 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion: 78 Resp: 55010





#34

Trichloroethene

Concen: 0.229 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Instrument :

MSVOA_R

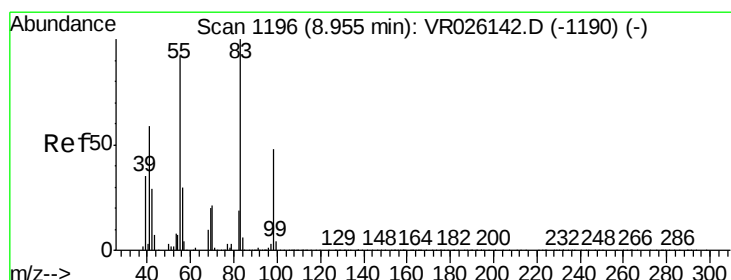
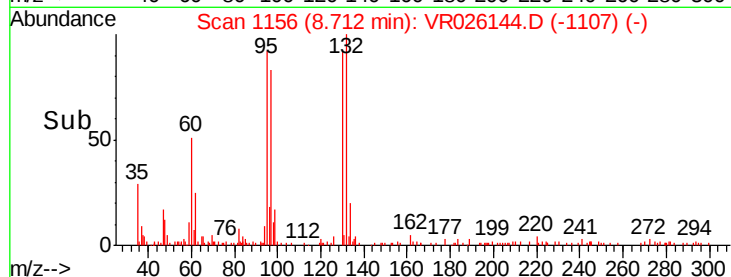
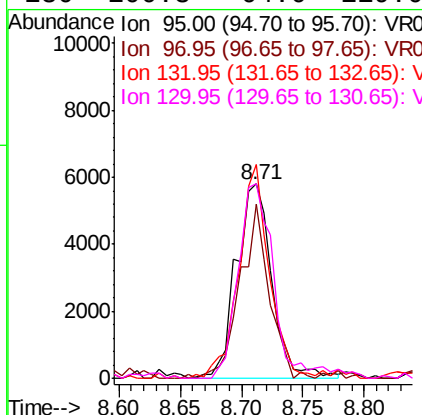
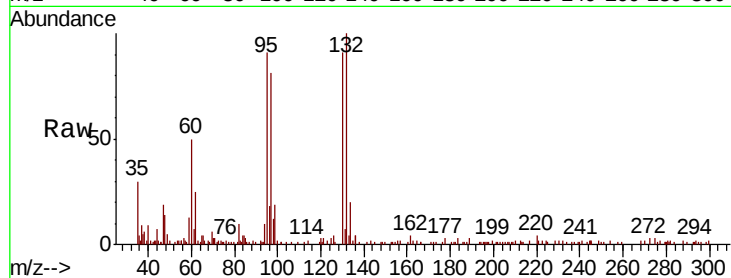
ClientSampleId :

MDL 0.25 PPB

Tot Ion	95	Resp	11710
Ion	Ratio	Lower	Upper
95	100		
97	89.5	45.7	84.9#
132	109.9	58.3	108.3#
130	100.3	64.0	119.0

Manual Integrations
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#35

Methylcyclohexane

Concen: 0.216 ug/L

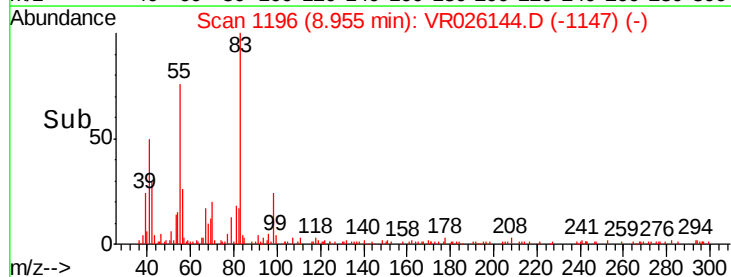
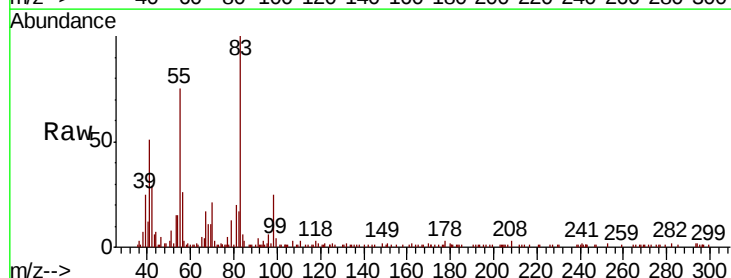
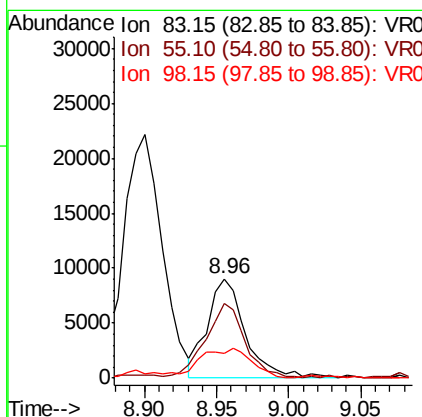
RT: 8.96 min Scan# 1196

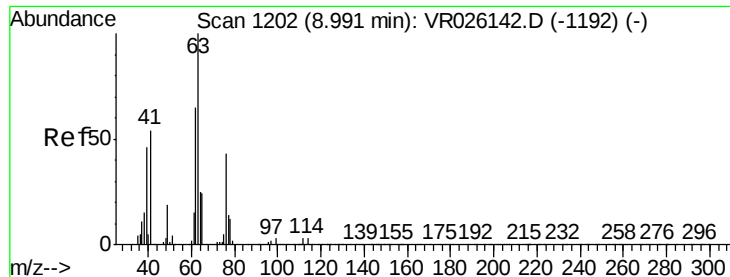
Delta R.T. 0.00 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Tgt Ion	83	Resp	16425
Ion	Ratio	Lower	Upper
83	100		
55	79.4	66.8	100.2
98	39.8	35.2	52.8





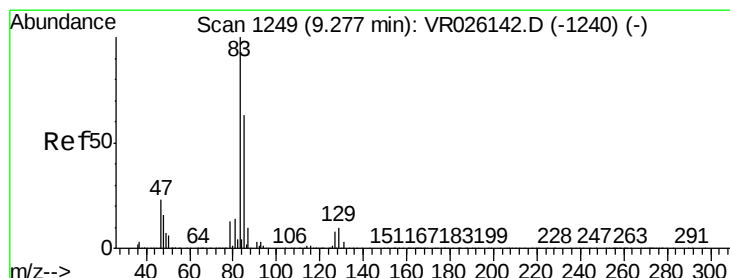
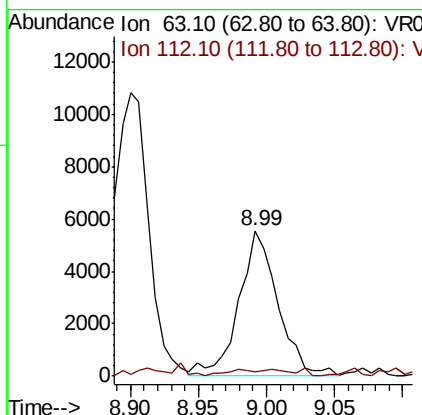
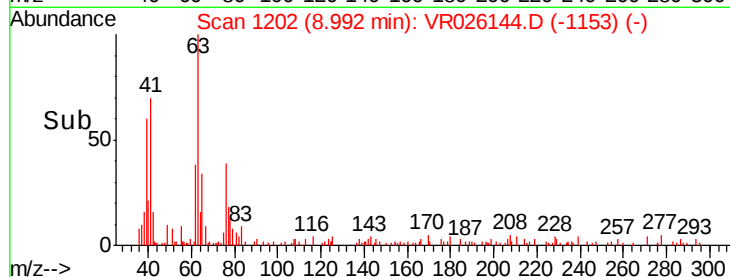
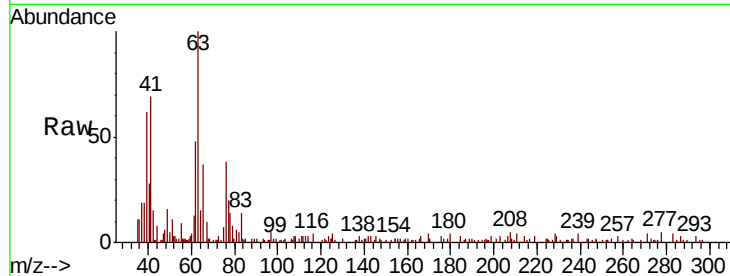
#37
 1,2-Dichloropropane
 Concen: 0.264 ug/L
 RT: 8.99 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
63	100		
112	3.4	2.7	4.1

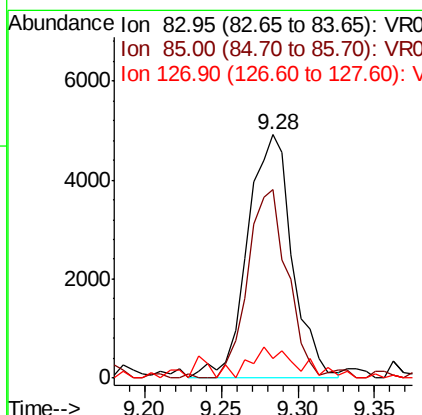
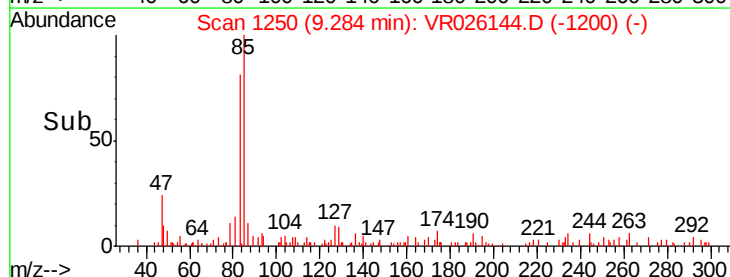
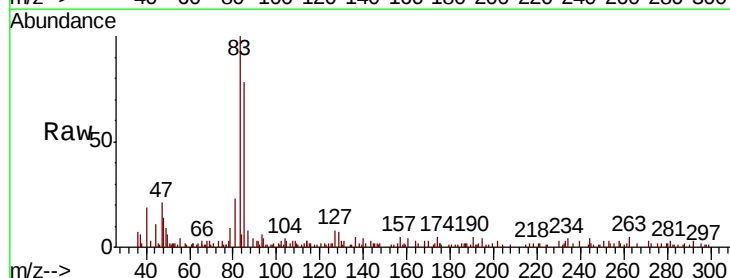
Manual Integrations
 APPROVED

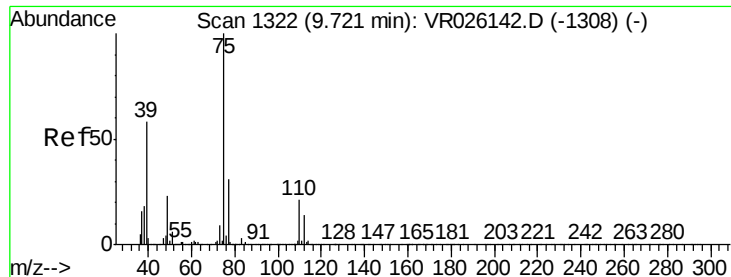
MMDadoda
 10/24/2018 11:51:49 AM



#38
 Bromodichloromethane
 Concen: 0.220 ug/L
 RT: 9.28 min Scan# 1250
 Delta R.T. 0.01 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	77.7	43.5	80.7
127	8.1	7.0	10.6





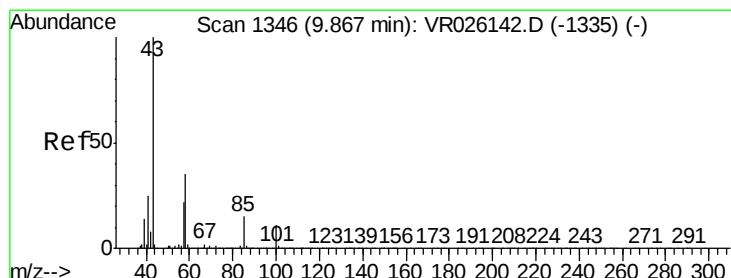
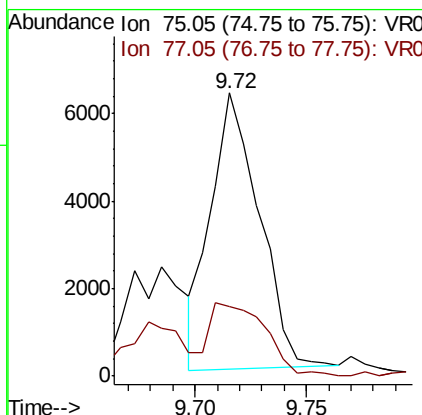
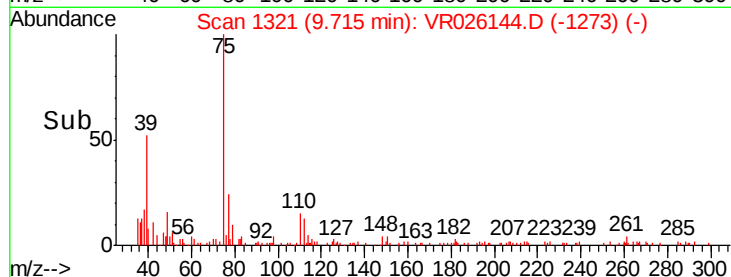
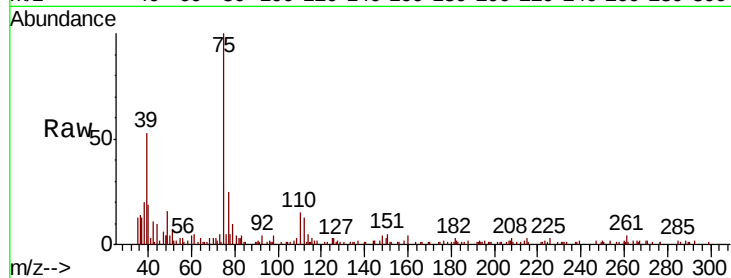
#39
 cis-1,3-Dichloropropene
 Concen: 0.197 ug/L
 RT: 9.72 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL 0.25 PPB

Tot Ion: 75 Resp: 9527
 Ion Ratio Lower Upper
 75 100
 77 24.7 22.7 42.1

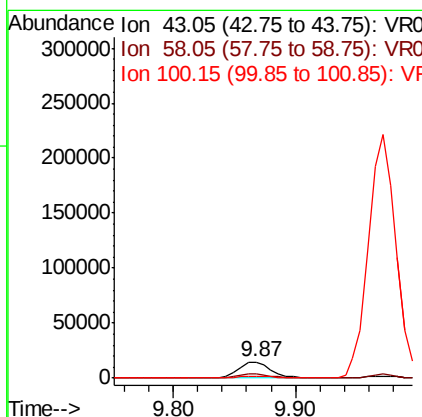
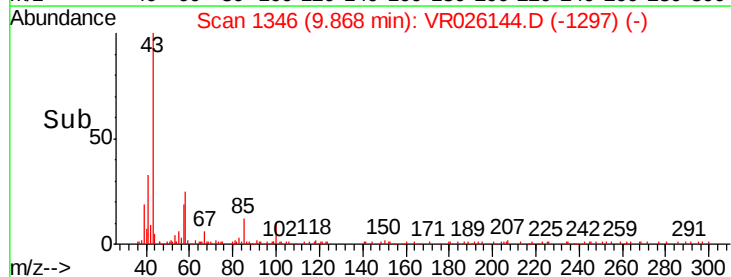
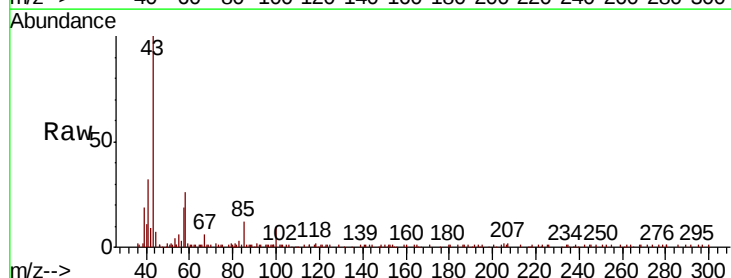
Manual Integrations
 APPROVED

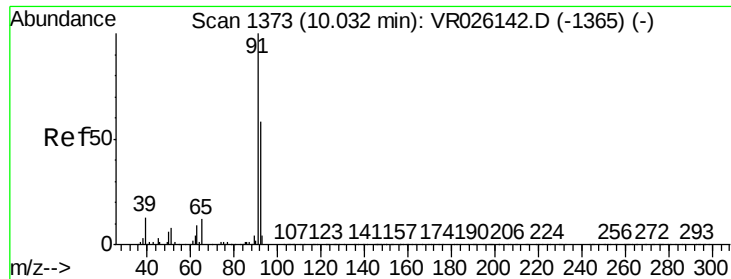
MMDadoda
 10/24/2018 11:51:49 AM



#40
 4-Methyl-2-pentanone
 Concen: 2.047 ug/L
 RT: 9.87 min Scan# 1346
 Delta R.T. 0.00 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Tgt Ion: 43 Resp: 26380
 Ion Ratio Lower Upper
 43 100
 58 29.9 28.1 42.1
 100 0.0 9.3 13.9#





#42

Toluene

Concen: 0.234 ug/L

RT: 10.03 min Scan# 1373

Delta R.T. 0.00 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Instrument :

MSVOA_R

ClientSampleId :

MDL 0.25 PPB

Tot Ion: 91 Resp: 49380

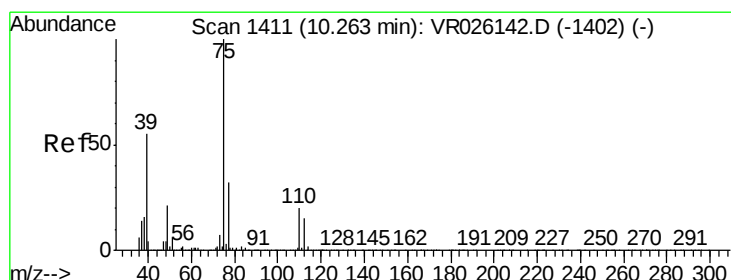
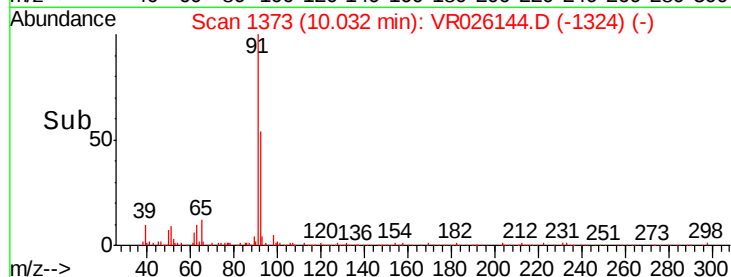
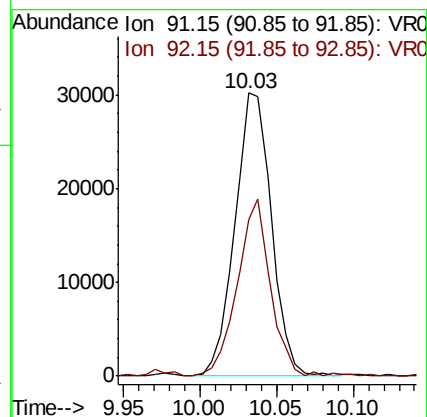
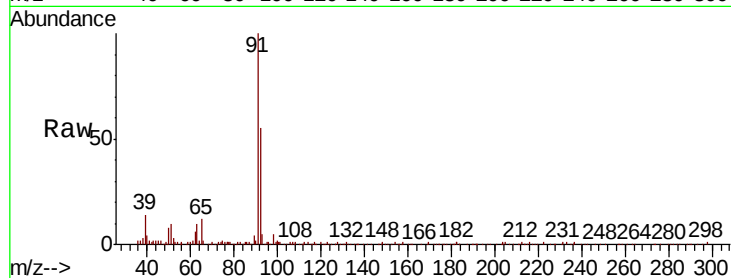
Ion Ratio Lower Upper

91 100

92 55.3 40.8 75.8

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM



#44

trans-1,3-Dichloropropene

Concen: 0.263 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. 0.00 min

Lab File: VR026144.D

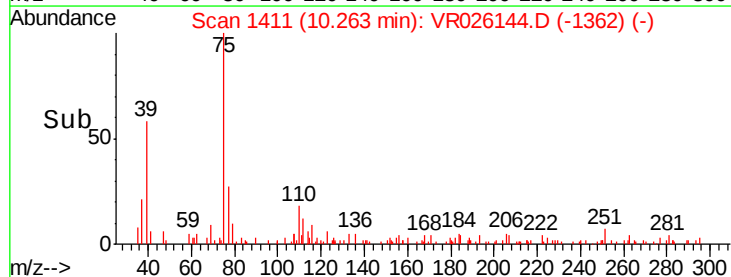
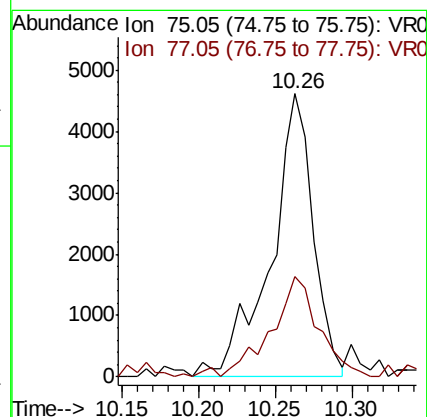
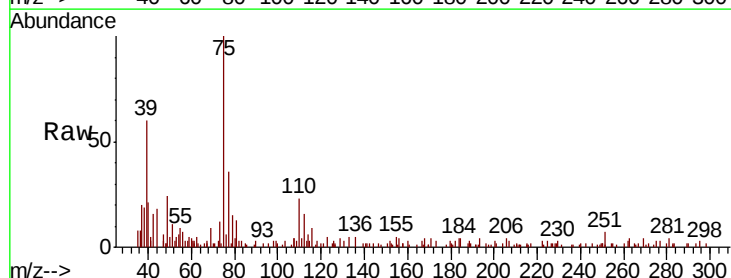
Acq: 19 Oct 2018 11:51

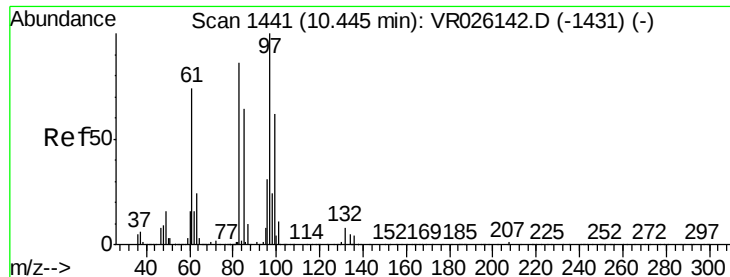
Tgt Ion: 75 Resp: 8865

Ion Ratio Lower Upper

75 100

77 35.7 24.1 44.7





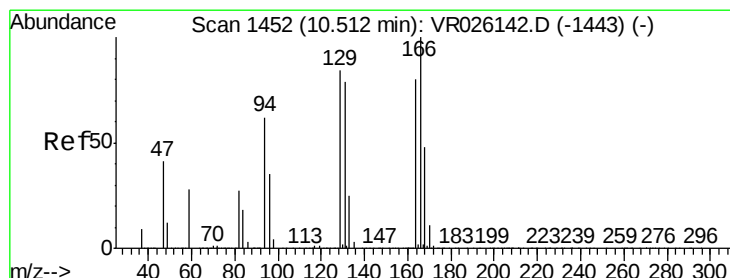
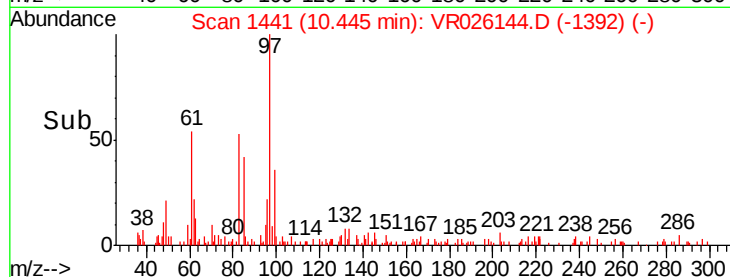
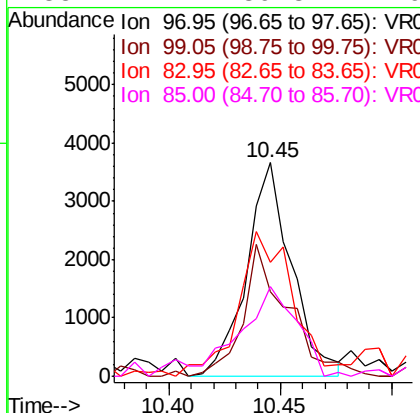
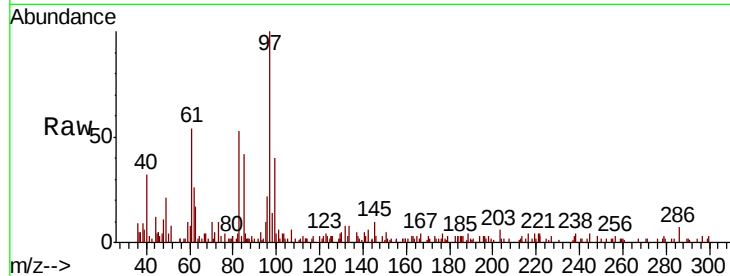
#45
 1,1,2-Trichloroethane
 Concen: 0.290 ug/L
 RT: 10.45 min Scan# 1441
 Delta R.T. 0.00 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL 0.25 PPB

Tot Ion:	97	Resp:	5158
Ion	Ratio	Lower	Upper
97	100		
99	39.5	42.8	79.4#
83	53.3	61.9	114.9#
85	42.1	39.3	72.9

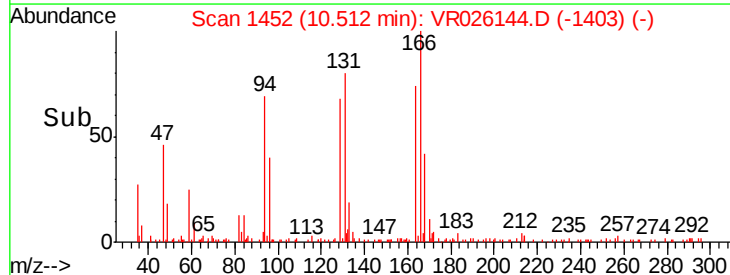
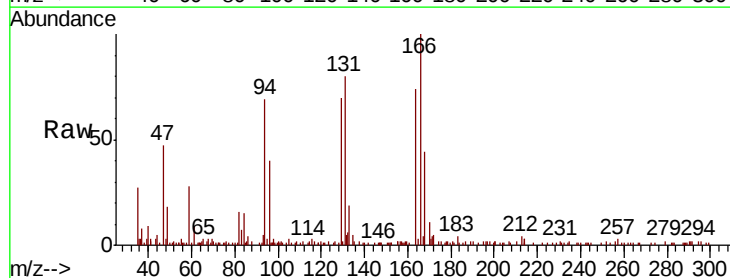
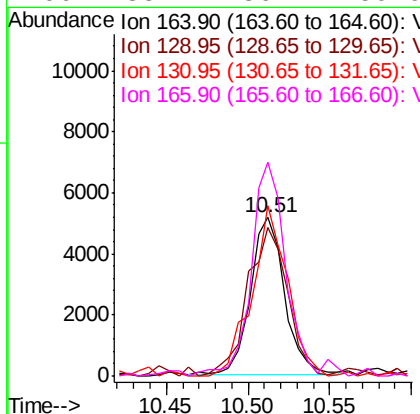
Manual Integrations
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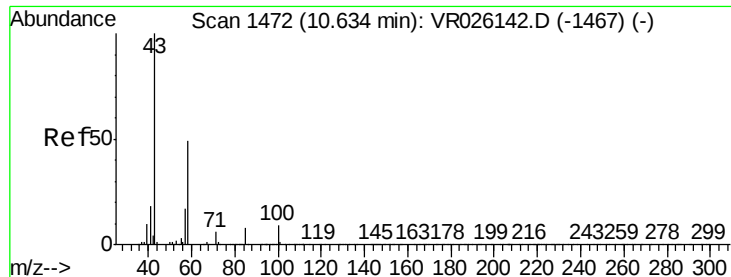
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 10/24/2018 11:51:49 AM



#47
 Tetrachloroethene
 Concen: 0.203 ug/L
 RT: 10.51 min Scan# 1452
 Delta R.T. 0.00 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Tgt Ion:	164	Resp:	7428
Ion	Ratio	Lower	Upper
164	100		
129	93.9	70.3	130.5
131	107.5	67.3	125.1
166	135.1	86.1	159.9





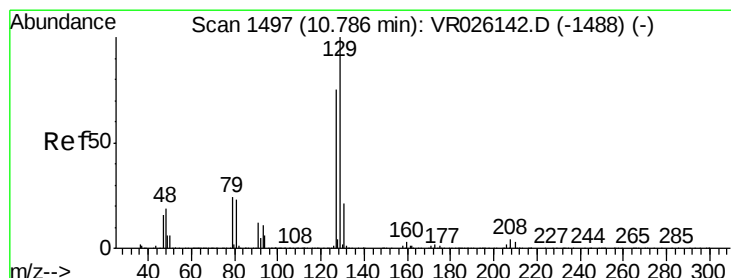
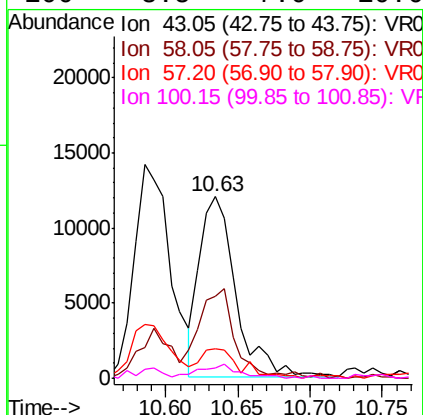
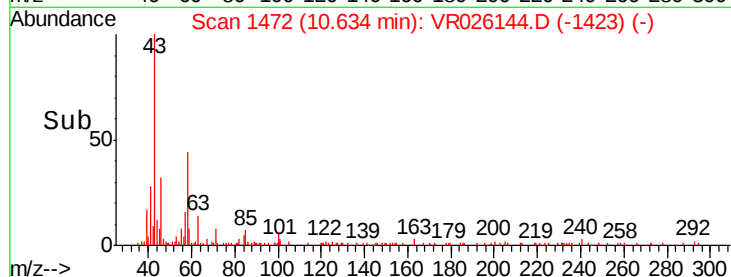
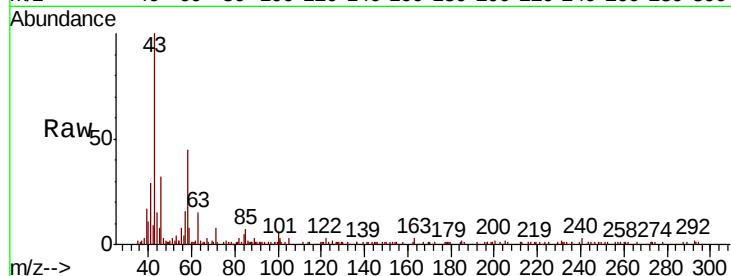
#48
2-Hexanone
Concen: 2.487 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.6	39.6	59.4
57	18.3	14.0	21.0
100	8.5	7.0	10.6

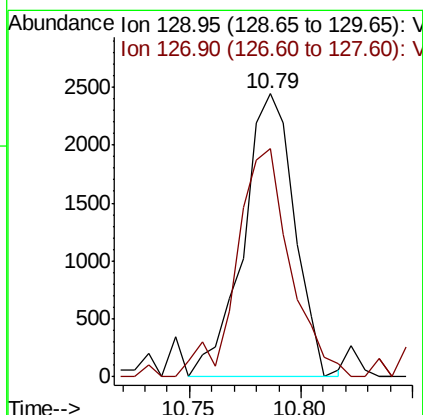
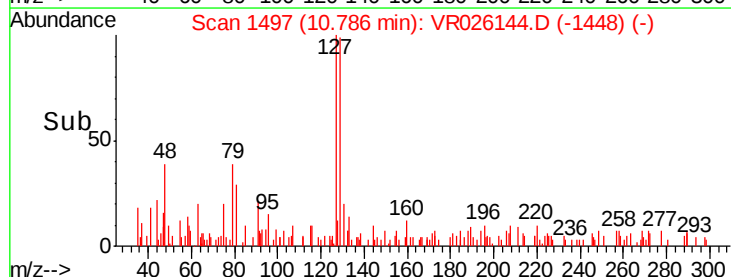
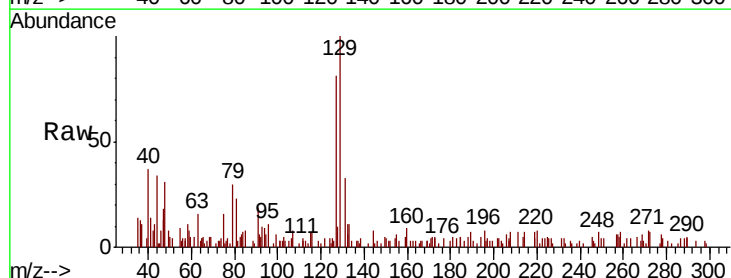
Manual Integrations
APPROVED

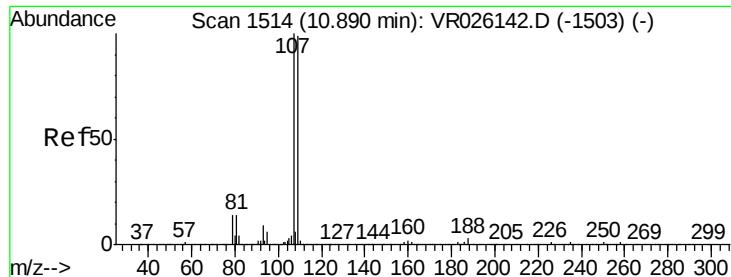
MMDadoda
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#49
Dibromochloromethane
Concen: 0.195 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.9	55.0	102.2





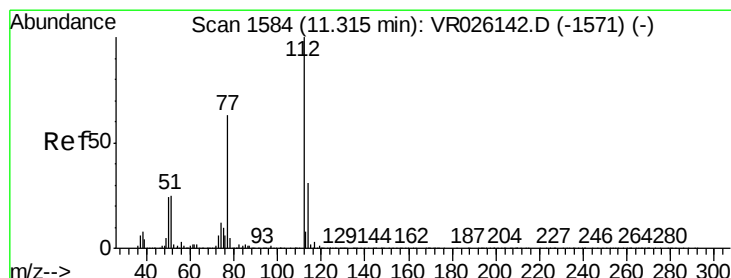
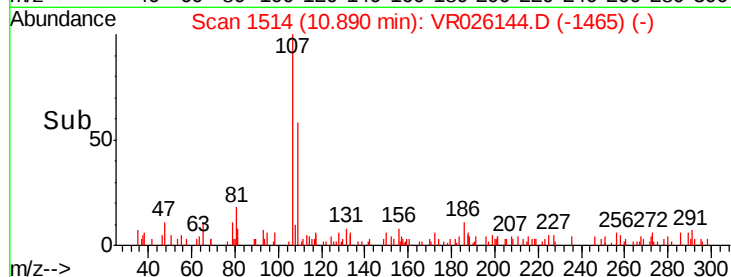
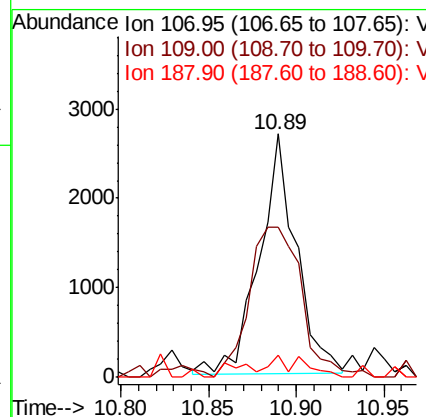
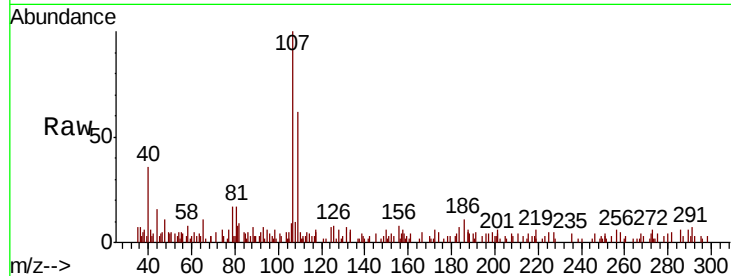
#50
1,2-Dibromoethane
Concen: 0.259 ug/L
RT: 10.89 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
107	100		
109	61.9	58.7	109.1
188	9.3	2.9	4.3#

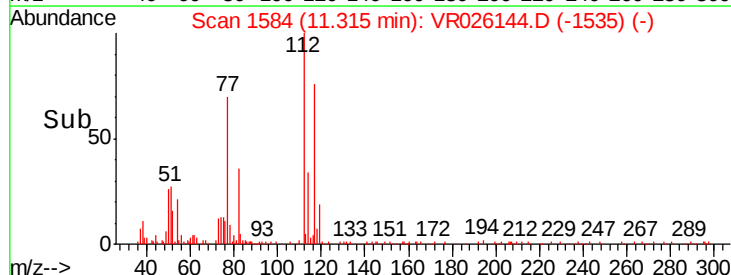
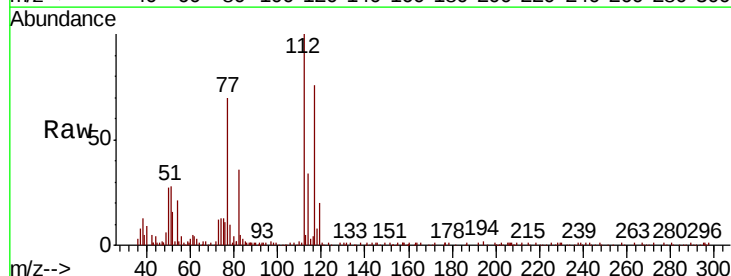
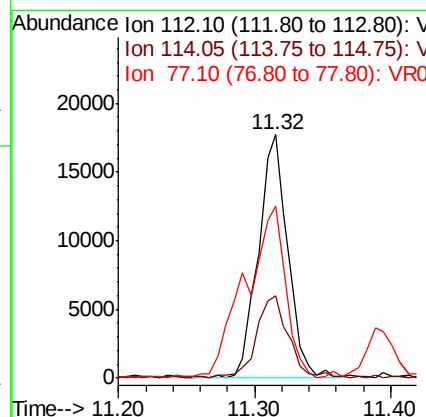
Manual Integrations
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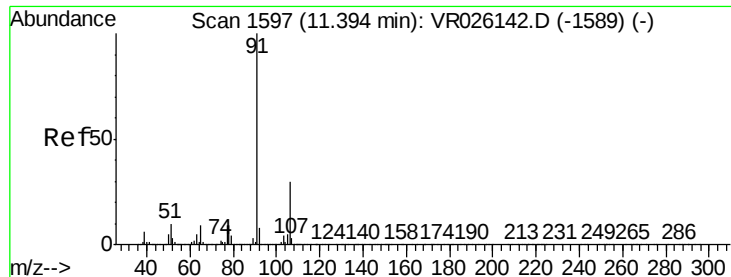
MMDadoda
10/24/2018 11:51:49 AM



#51
Chlorobenzene
Concen: 0.228 ug/L
RT: 11.32 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.0	22.8	42.4
77	70.5	51.5	77.3





#52

Ethylbenzene

Concen: 0.215 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Instrument :

MSVOA_R

ClientSampleId :

MDL 0.25 PPB

Tot Ion: 91 Resp: 52097

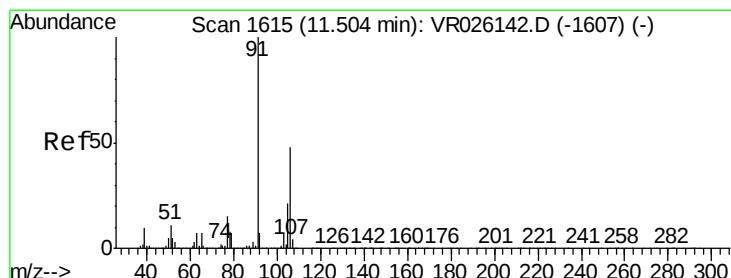
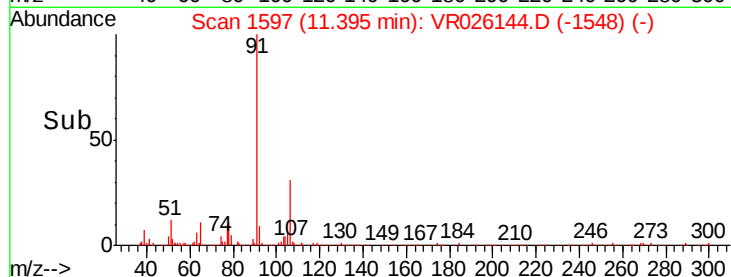
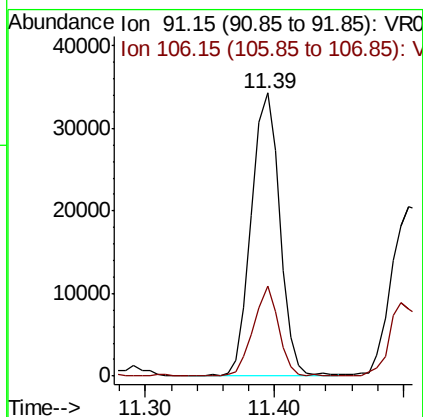
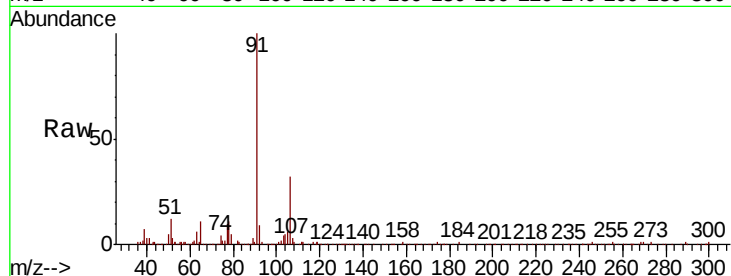
Ion Ratio Lower Upper

91 100

106 31.8 21.2 39.4

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM



#53

m,p-Xylene

Concen: 0.193 ug/L

RT: 11.50 min Scan# 1614

Delta R.T. -0.01 min

Lab File: VR026144.D

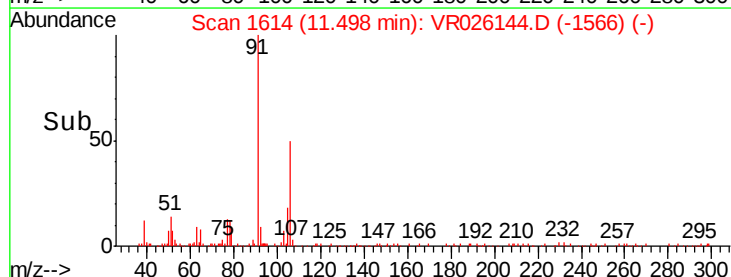
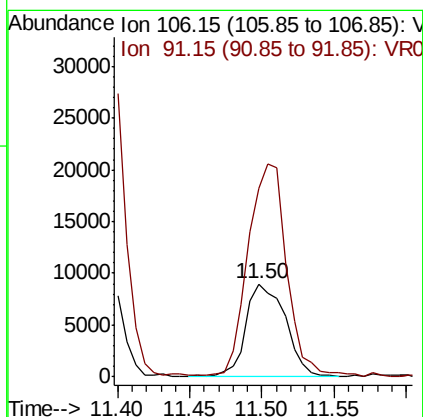
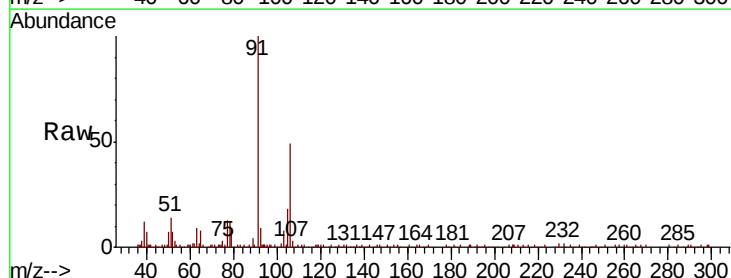
Acq: 19 Oct 2018 11:51

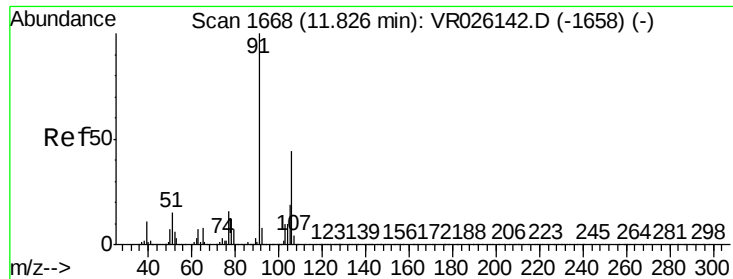
Tgt Ion: 106 Resp: 17094

Ion Ratio Lower Upper

106 100

91 203.6 145.3 269.8





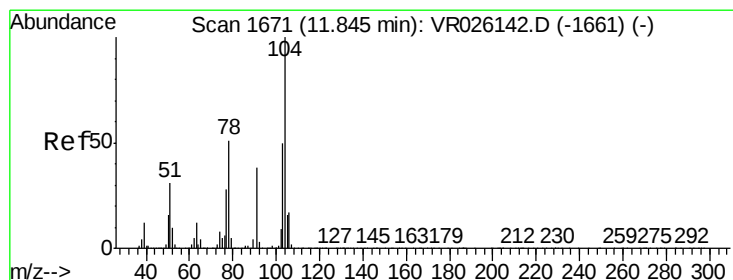
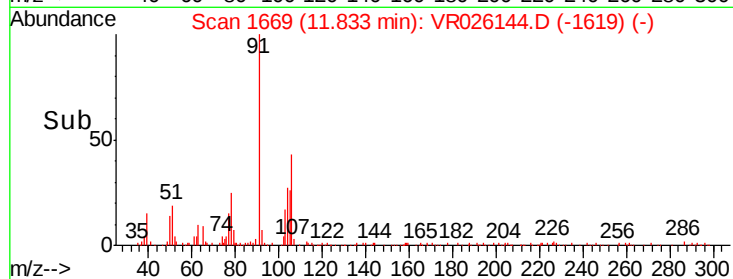
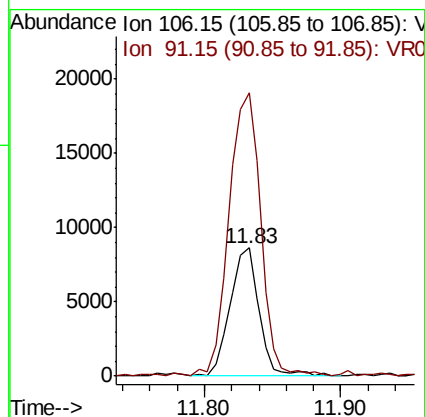
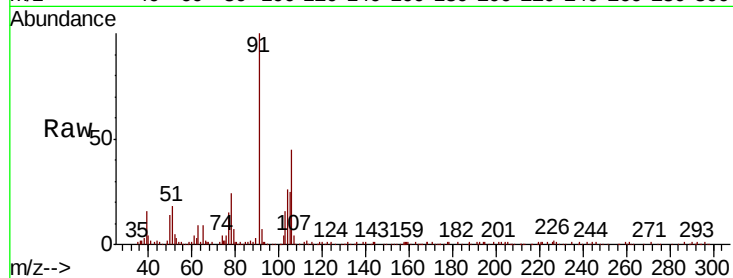
#54
o-Xylene
Concen: 0.158 ug/L
RT: 11.83 min Scan# 1669
Delta R.T. 0.01 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
106	100		
91	221.3	155.8	289.3

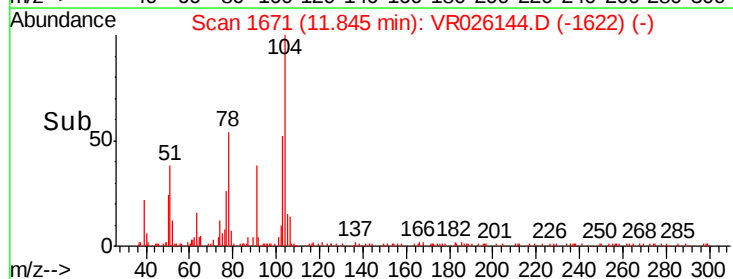
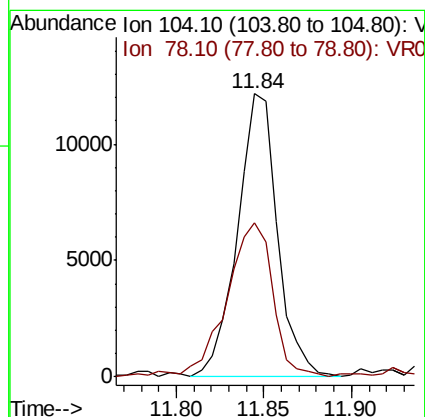
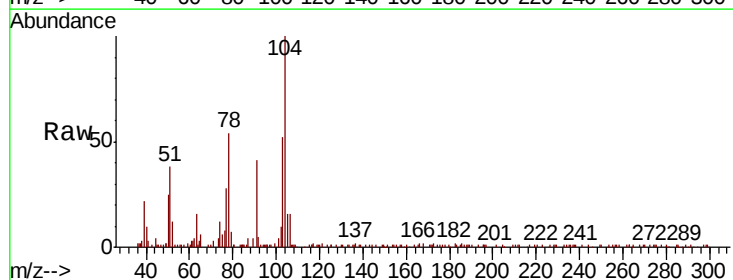
Manual Integrations
APPROVED

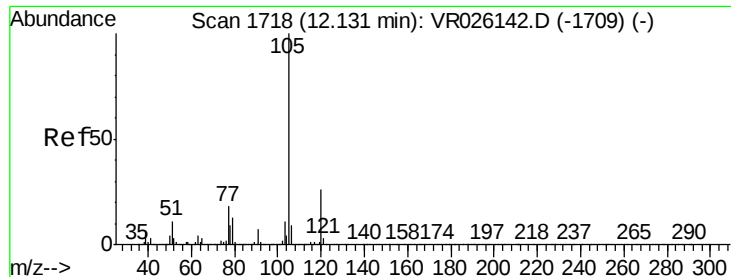
MMDadoda
10/24/2018 11:51:49 AM



#55
Styrene
Concen: 0.155 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.5	34.7	64.5





#56

Isopropylbenzene

Concen: 0.170 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Instrument :

MSVOA_R

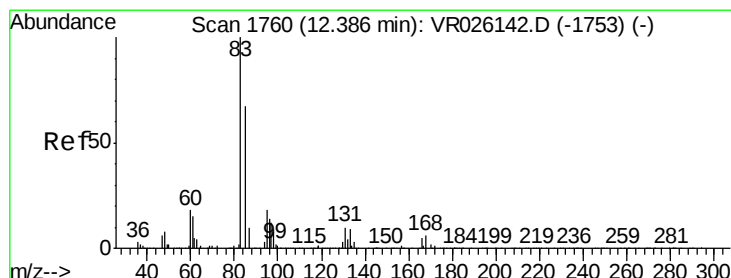
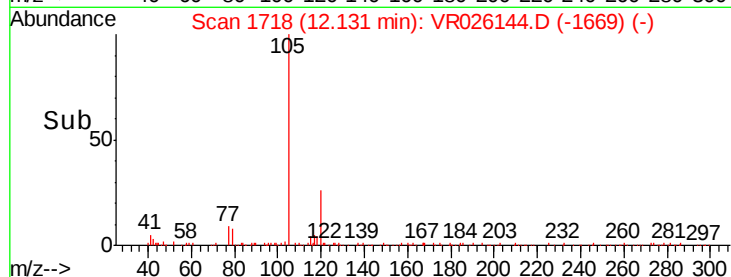
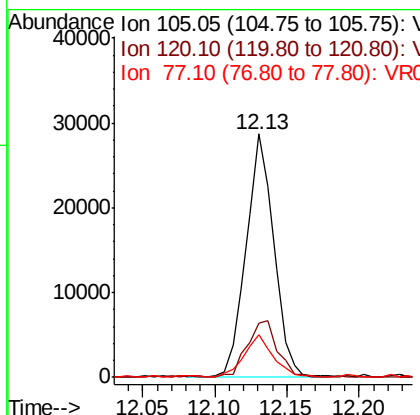
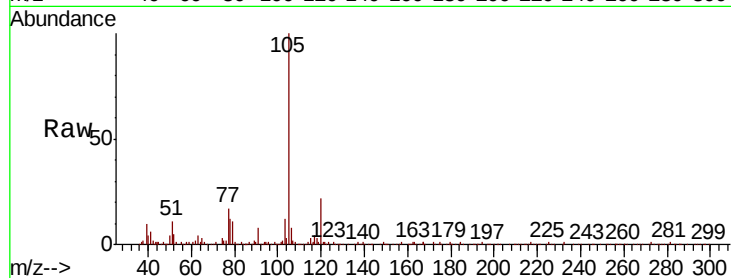
ClientSampleId :

MDL 0.25 PPB

Tot Ion:	105	Resp:	38315
Ion Ratio	Lower	Upper	
105	100		
120	25.3	21.0	31.4
77	18.5	14.6	21.8

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10/24/2018 11:51:49 AM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.241 ug/L

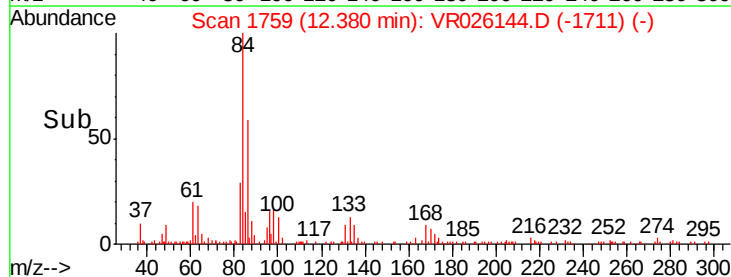
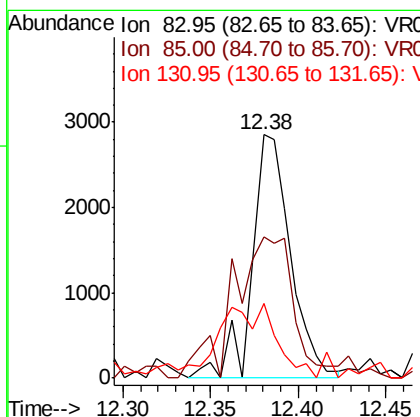
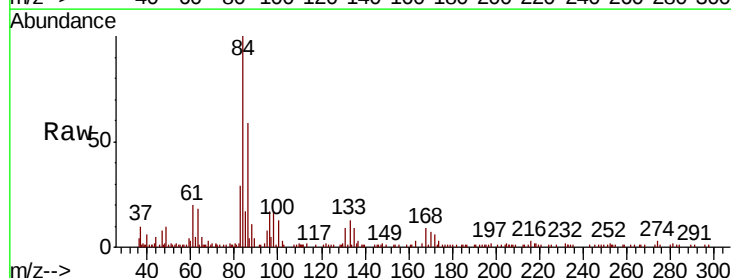
RT: 12.38 min Scan# 1759

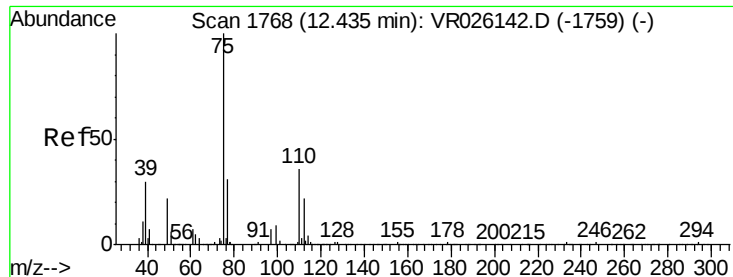
Delta R.T. -0.01 min

Lab File: VR026144.D

Acq: 19 Oct 2018 11:51

Tgt Ion:	83	Resp:	4365
Ion Ratio	Lower	Upper	
83	100		
85	58.1	44.0	81.8
131	30.4	8.0	12.0#





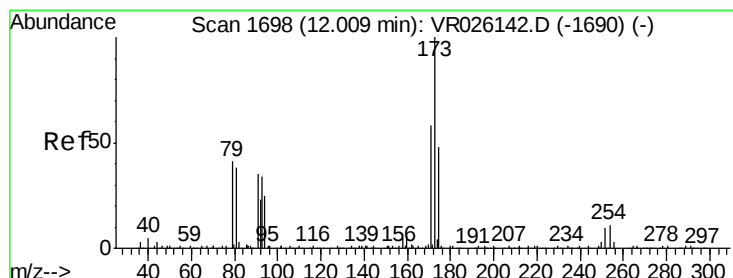
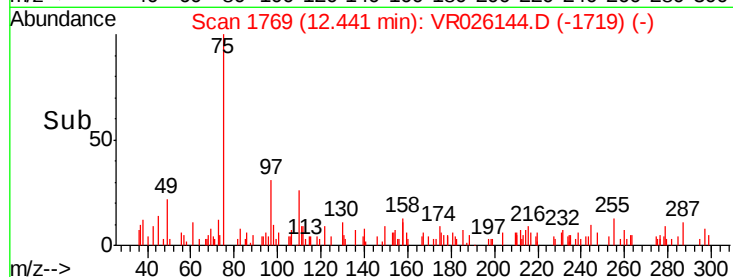
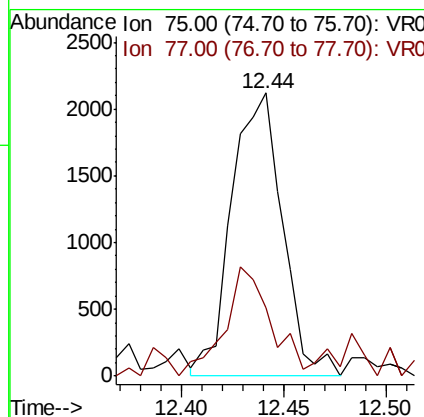
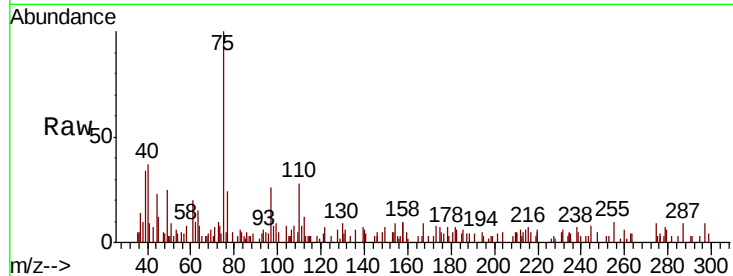
#59
 1,2,3-Trichloropropane
 Concen: 0.276 ug/L
 RT: 12.44 min Scan# 1769
 Delta R.T. 0.01 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
75	100		
77	35.8	26.2	39.2

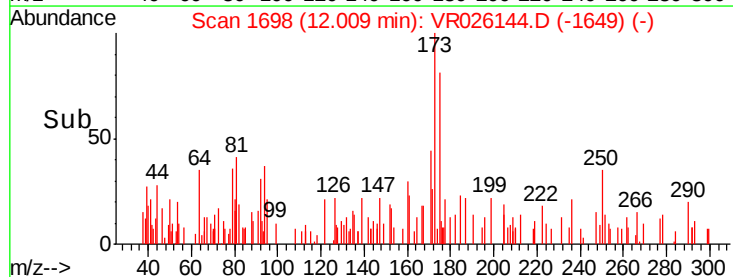
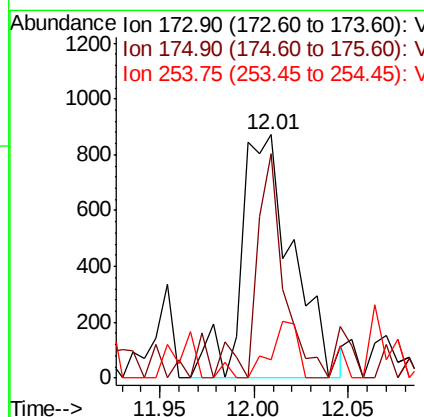
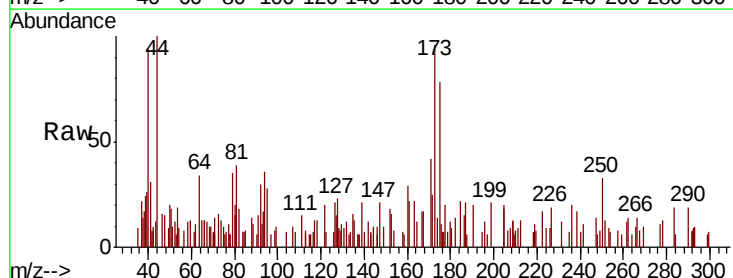
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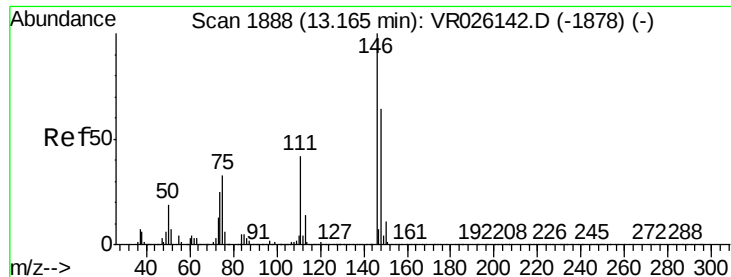
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#61
 Bromoform
 Concen: 0.280 ug/L
 RT: 12.01 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
173	100		
175	44.9	39.0	58.4
254	11.9	8.1	12.1





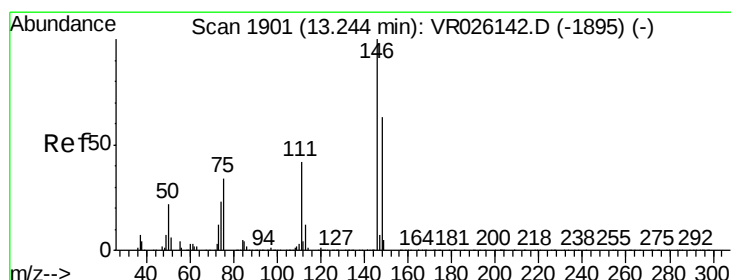
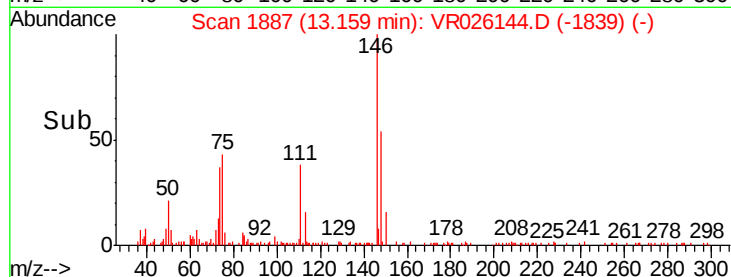
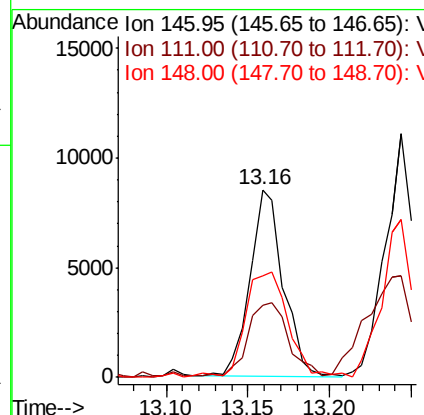
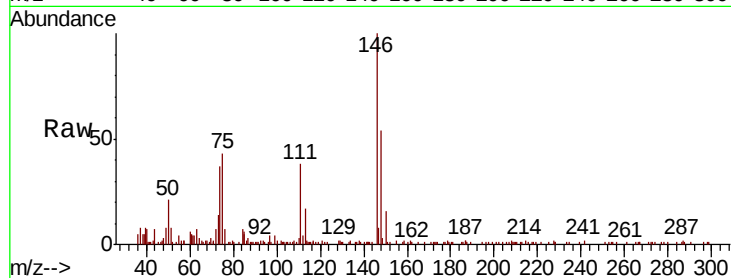
#62
1,3-Dichlorobenzene
Concen: 0.214 ug/L
RT: 13.16 min Scan# 1887
Delta R.T. -0.01 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	32.1	59.7
148	54.4	43.8	81.3

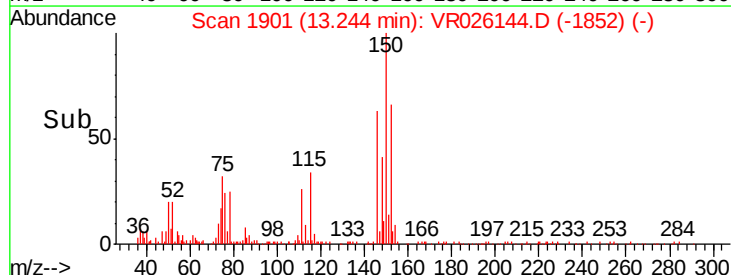
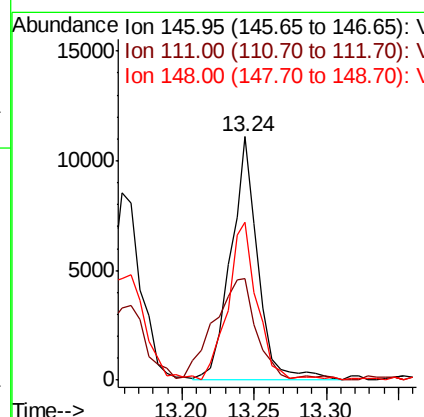
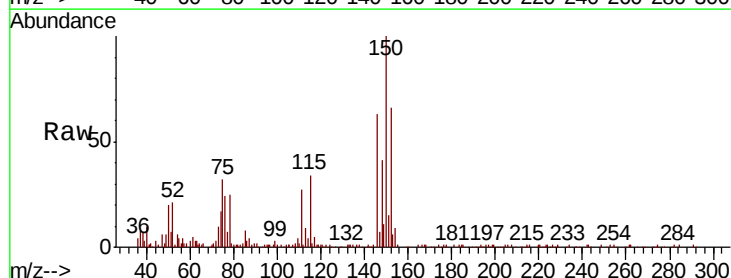
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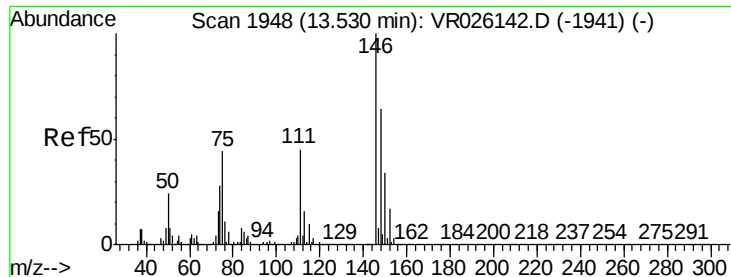
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10/24/2018 11:51:49 AM



#63
1,4-Dichlorobenzene
Concen: 0.250 ug/L
RT: 13.24 min Scan# 1901
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	32.6	60.6
148	65.1	46.7	86.7





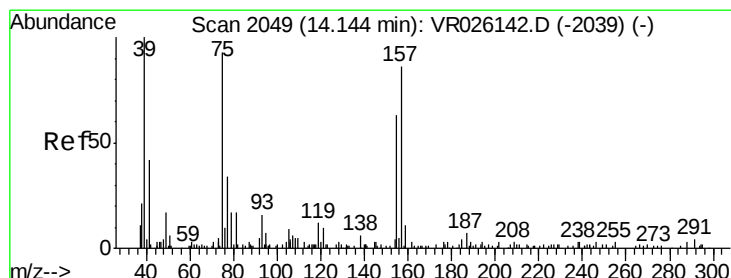
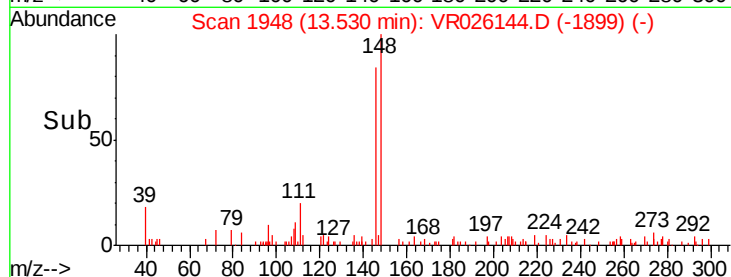
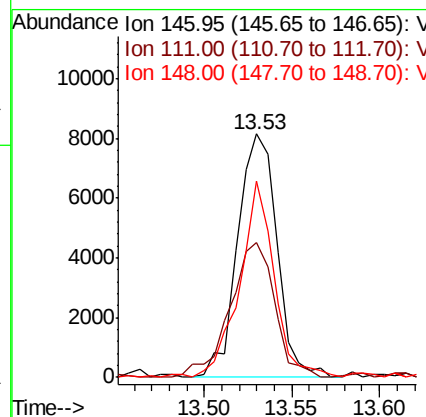
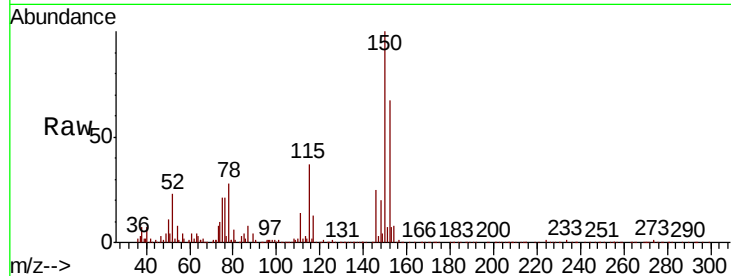
#65
1,2-Dichlorobenzene
Concen: 0.281 ug/L
RT: 13.53 min Scan# 1948
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	Ratio	Lower	Upper
146	100		
111	55.4	35.2	52.8#
148	80.6	51.2	76.8#

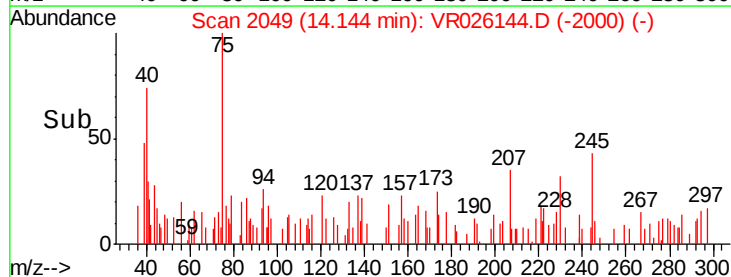
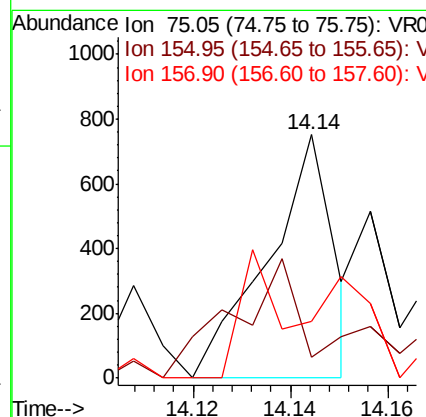
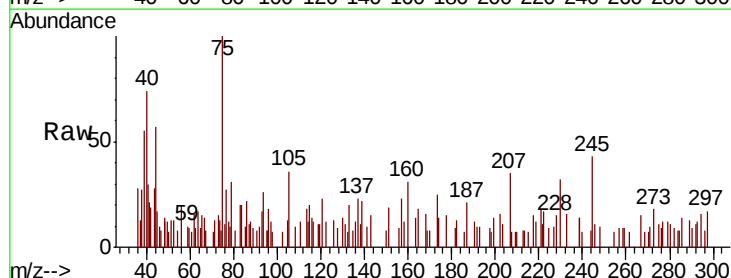
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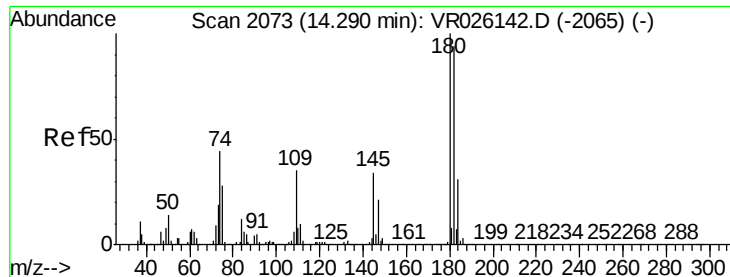
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#66
1,2-Dibromo-3-chloropropane
Concen: 0.382 ug/L m
RT: 14.14 min Scan# 2049
Delta R.T. 0.00 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	8.8	40.9	61.3#
157	23.0	67.3	100.9#





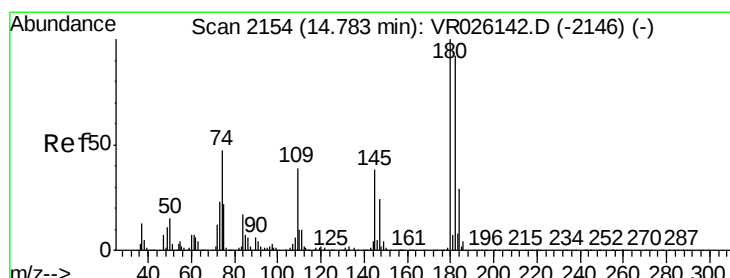
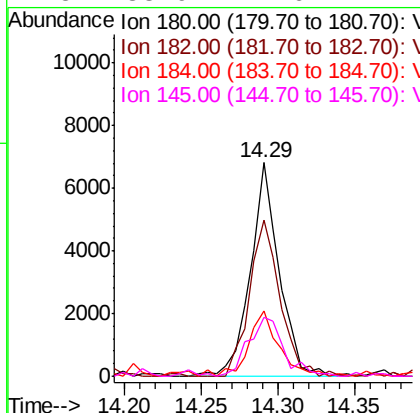
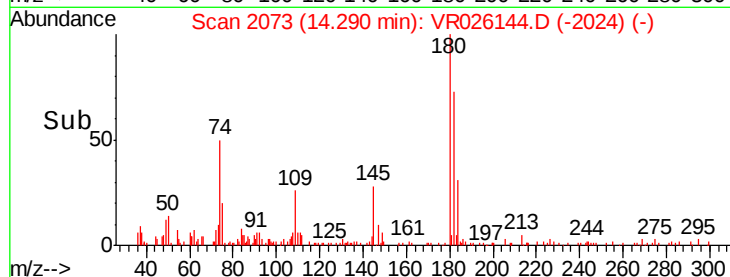
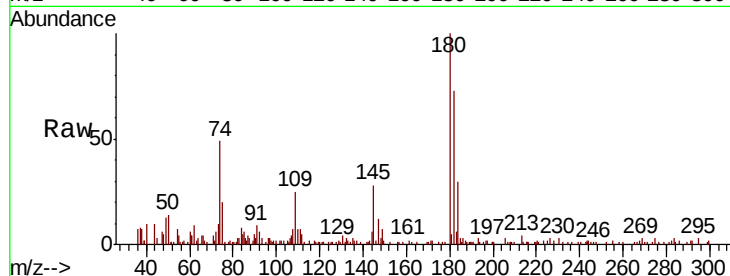
#67
 1,3,5-Trichlorobenzene
 Concen: 0.257 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. 0.00 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL 0.25 PPB

Tot Ion:	180	Resp:	8855
Ion Ratio	Lower	Upper	
180	100		
182	78.2	77.5	116.3
184	32.9	25.0	37.4
145	33.9	27.6	41.4

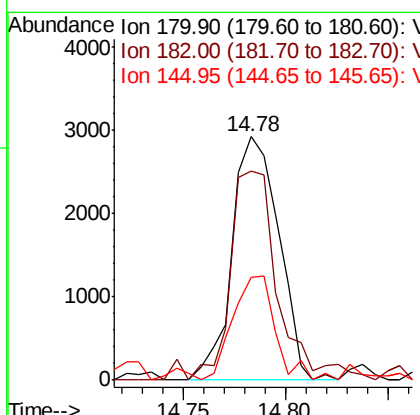
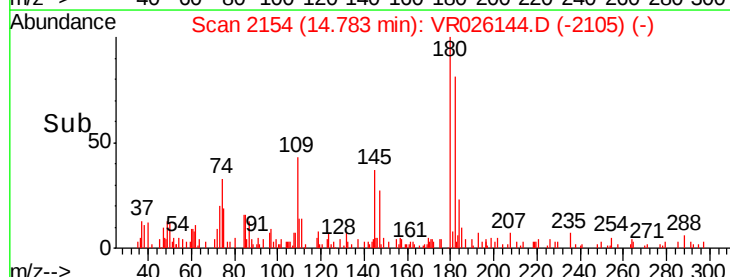
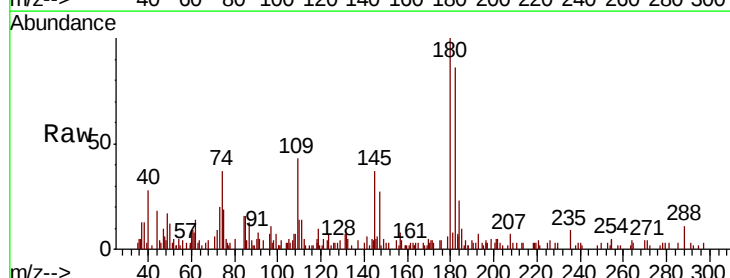
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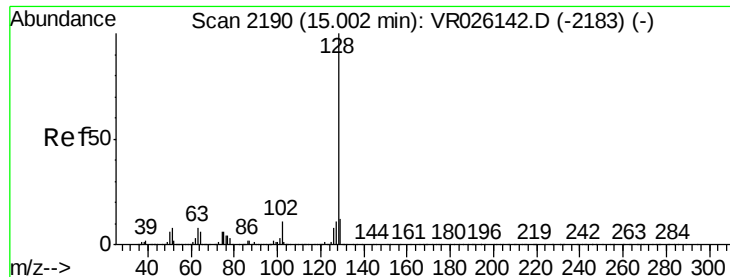
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#68
 1,2,4-trichlorobenzene
 Concen: 0.231 ug/L
 RT: 14.78 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VR026144.D
 Acq: 19 Oct 2018 11:51

Tgt Ion:	180	Resp:	4656
Ion Ratio	Lower	Upper	
180	100		
182	86.9	76.1	114.1
145	38.9	28.2	42.4





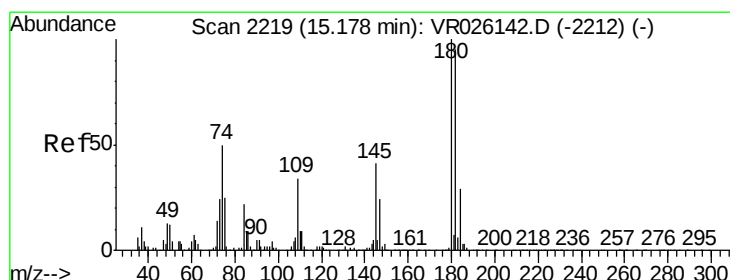
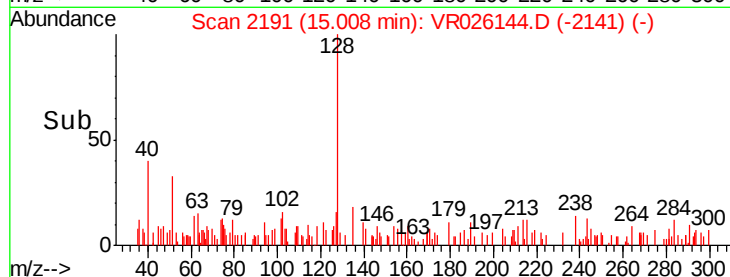
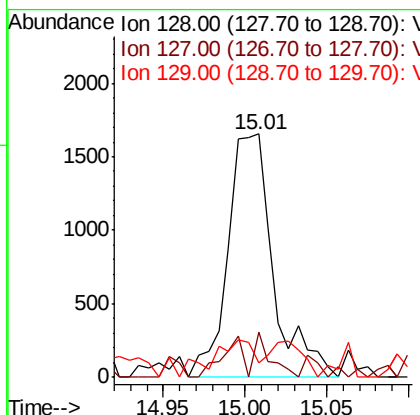
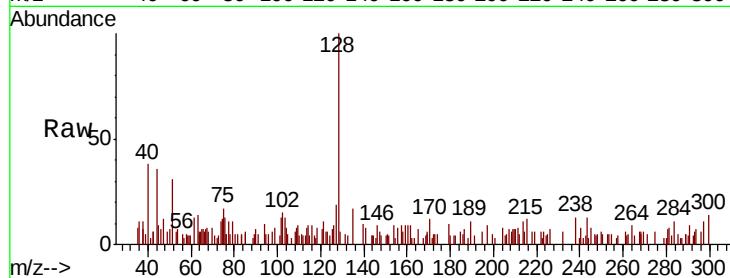
#69
Naphthalene
Concen: 0.164 ug/L
RT: 15.01 min Scan# 2191
Delta R.T. 0.01 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Tot Ion	Ratio	Resp	Lower	Upper
128	100	3213		
127	6.5		11.0	16.6#
129	0.0		9.1	13.7#

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#70
1,2,3-Trichlorobenzene
Concen: 0.230 ug/L
RT: 15.18 min Scan# 2220
Delta R.T. 0.01 min
Lab File: VR026144.D
Acq: 19 Oct 2018 11:51

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	3218		
182	98.3		75.7	113.5
145	41.5		28.8	43.2

