

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092619\
 Data File : VW013310.D
 Acq On : 26 Sep 2019 17:52
 Operator : SY/VA
 Sample : MDL06
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 2:13:32 PM

Quant Time: Sep 27 08:42:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM092619S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 26 12:57:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	478071	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	429797	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	214911	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	141234	24.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.12%
7) Chloroethane-d5	2.89	69	110606	24.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.68%
10) 1,1-Dichloroethene-d2	4.01	63	212904	18.97	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.88%
20) 2-Butanone-d5	7.07	46	100031	50.77	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.54%
24) Chloroform-d	7.65	84	257082	23.85	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.40%
26) 1,2-Dichloroethane-d4	8.31	65	145354	24.96	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.84%
29) Benzene-d6	8.27	84	572722	24.54	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.16%
33) 1,2-Dichloropropane-d6	9.27	67	172849	24.85	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.40%
37) Toluene-d8	10.32	98	538520	24.51	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.04%
38) trans-1,3-Dichloropropene-	10.58	79	75437	24.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.56%
39) 2-Hexanone-d5	10.92	63	78710	51.73	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.46%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	151064	25.58	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.32%
61) 1,2-Dichlorobenzene-d4	13.85	152	192126	25.03	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.12%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.00	85	4353m	1.455	ug/L	
3) Chloromethane	2.21	50	8421	2.101	ug/L	96
5) Vinyl chloride	2.35	62	11632	2.098	ug/L #	57
6) Bromomethane	2.78	94	7249	2.056	ug/L	85
8) Chloroethane	2.92	64	6968m	2.072	ug/L	
9) Trichlorofluoromethane	3.26	101	5606	1.631	ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	14104m	2.597	ug/L	
12) 1,1-Dichloroethene	4.03	96	12661	2.297	ug/L #	1
13) Acetone	4.12	43	9603	5.856	ug/L	71
14) Carbon disulfide	4.38	76	31053	1.985	ug/L	96
15) Methyl Acetate	4.67	43	7487m	2.366	ug/L	
16) Methylene chloride	4.91	84	27578	3.861	ug/L	99
17) Methyl tert-butyl Ether	5.43	73	21572	2.263	ug/L #	86
18) trans-1,2-Dichloroethene	5.42	96	12699	2.155	ug/L	96
19) 1,1-Dichloroethane	6.21	63	22120	2.140	ug/L	98
21) 2-Butanone	7.16	43	13191	5.585	ug/L	94
22) cis-1,2-Dichloroethene	7.16	96	13557	2.111	ug/L	90

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

23) Bromochloromethane	7.51	128	6268	2.169	ug/L #	93
25) Chloroform	7.67	83	23551	2.319	ug/L	84
27) 1,2-Dichloroethane	8.40	62	15200	2.285	ug/L	94
30) Cyclohexane	7.95	56	20986	2.033	ug/L #	92
31) 1,1,1-Trichloroethane	7.87	97	17128	2.076	ug/L	99
32) Carbon tetrachloride	8.06	117	16499	2.098	ug/L	99
34) Benzene	8.32	78	53765	2.231	ug/L	100
35) Trichloroethene	9.09	95	13641	2.155	ug/L	98
36) Methylcyclohexane	9.34	83	22621	2.006	ug/L	96
40) 1,2-Dichloropropane	9.37	63	12831	2.164	ug/L	98
41) Bromodichloromethane	9.64	83	15675	2.155	ug/L #	96
42) cis-1,3-Dichloropropene	10.07	75	19664	2.077	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	23721	5.227	ug/L	95
44) Toluene	10.39	91	58543	2.232	ug/L	96
45) trans-1,3-Dichloropropene	10.60	75	15463m	2.032	ug/L	
46) 1,1,2-Trichloroethane	10.79	97	9694	2.087	ug/L	94
47) Tetrachloroethene	10.86	164	12458	2.187	ug/L	95
49) 2-Hexanone	10.97	43	14259	4.371	ug/L	98
50) Dibromochloromethane	11.13	129	11079	2.080	ug/L	93
51) 1,2-Dibromoethane	11.23	107	9765	2.140	ug/L #	100
52) Chlorobenzene	11.66	112	35516	2.149	ug/L	99
53) Ethylbenzene	11.73	91	61549	2.117	ug/L	97
54) m,p-Xylene	11.83	106	22098	1.979	ug/L	97
55) o-xylene	12.16	106	22042	2.092	ug/L	91
56) Styrene	12.18	104	37598	2.081	ug/L	98
57) Isopropylbenzene	12.46	105	59010	2.071	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	12842	2.244	ug/L	95
59) 1,2,3-Trichloropropane	12.77	75	9918	2.323	ug/L	99
62) Bromoform	12.35	173	6850	2.015	ug/L #	97
63) 1,3-Dichlorobenzene	13.50	146	28187	2.131	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	30813	2.306	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	26896	2.235	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.49	75	2237	2.361	ug/L	90
67) 1,3,5-Trichlorobenzene	14.63	180	21023	2.065	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	15896	1.956	ug/L	100
69) Naphthalene	15.36	128	27181	1.750	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	15844	2.143	ug/L	92

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

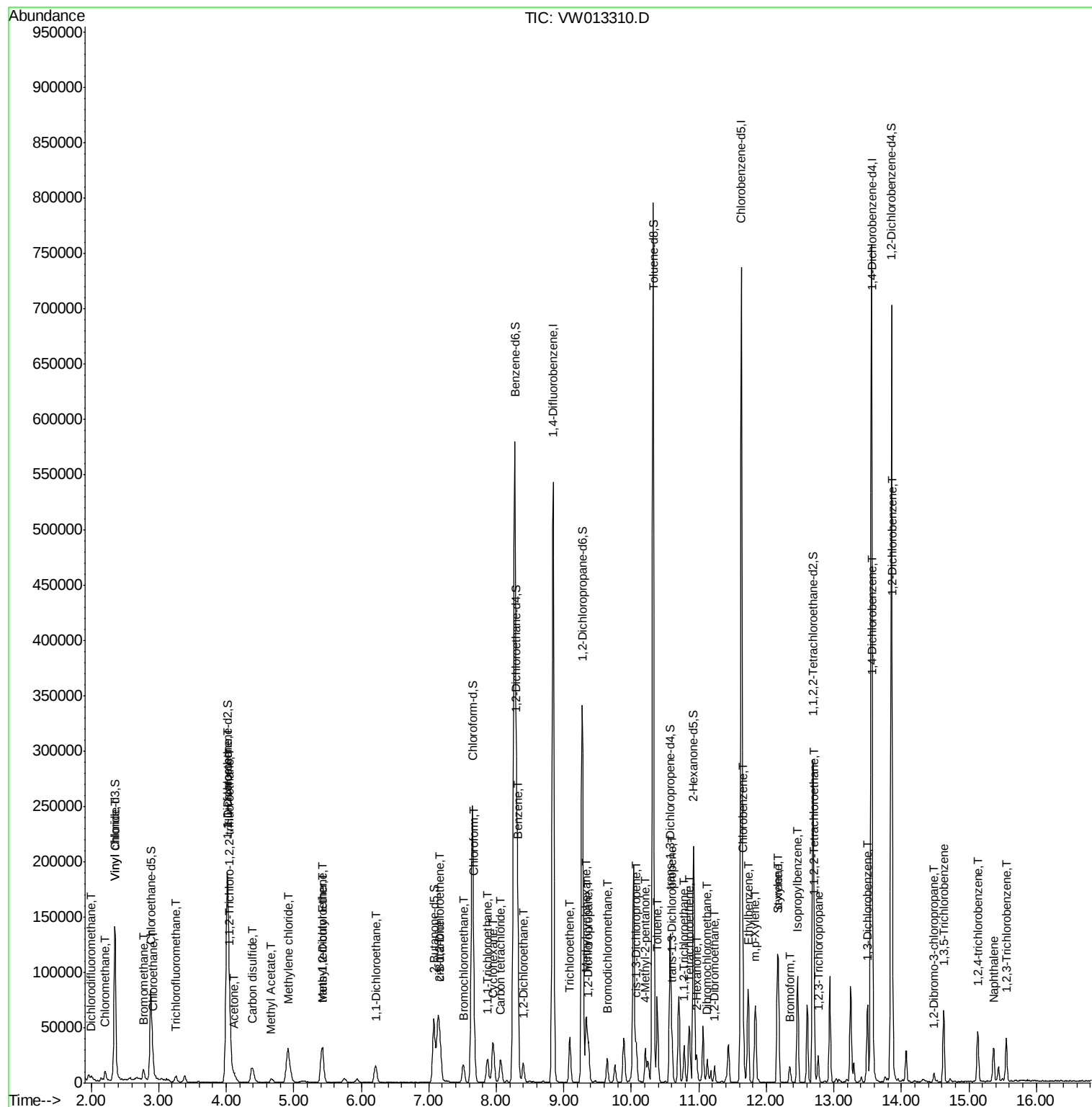
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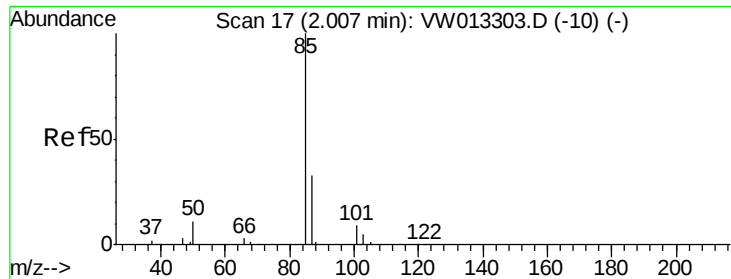
Instrument :
MSVOA_W
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#2

Dichlorodifluoromethane

Concen: 1.455 ug/L m

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

Tot Ion: 85 Resp: 4353

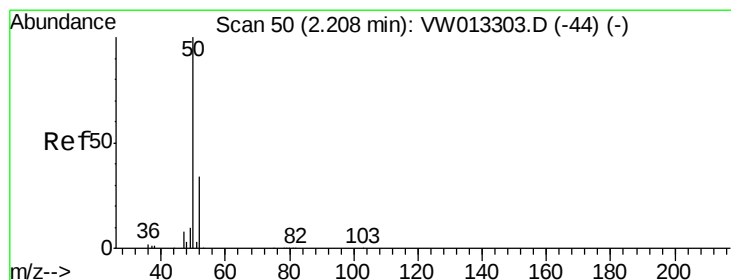
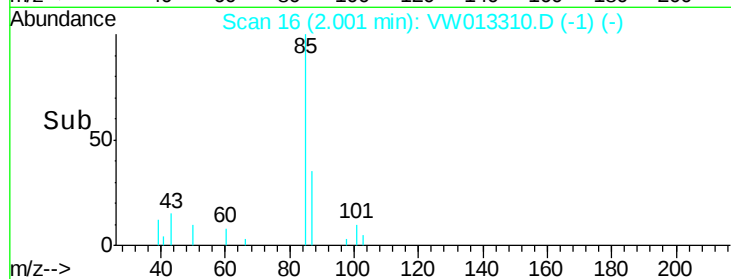
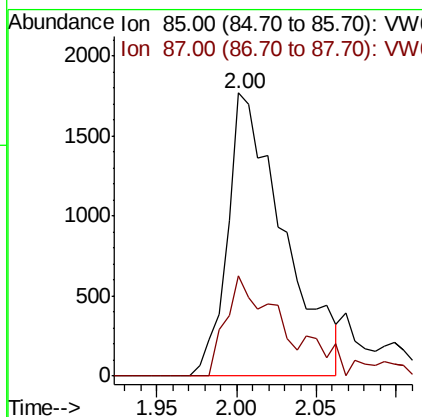
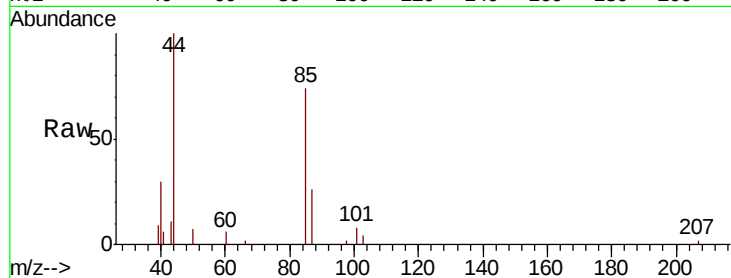
Ion Ratio Lower Upper

85 100

87 18.6 21.3 39.6#

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#3

Chloromethane

Concen: 2.101 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013310.D

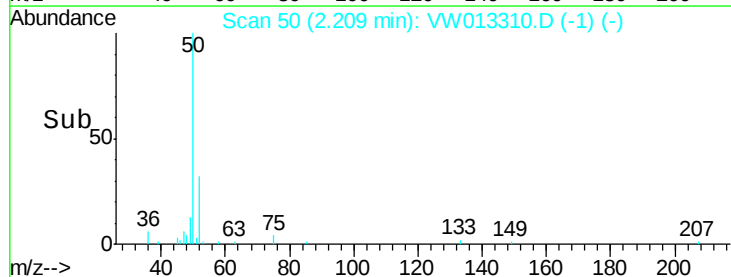
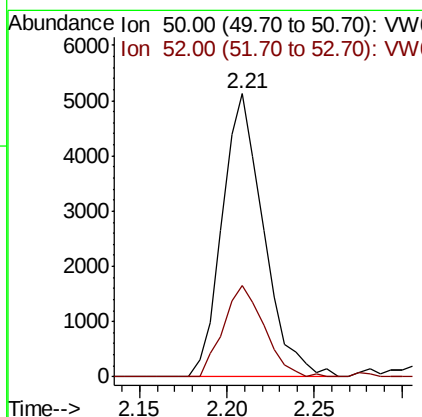
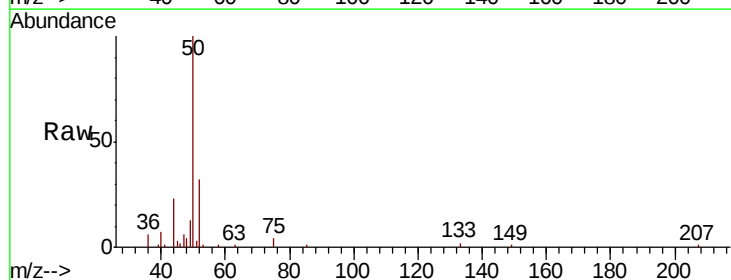
Acq: 26 Sep 2019 17:52

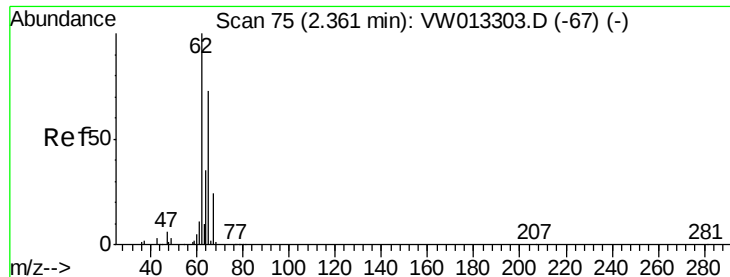
Tgt Ion: 50 Resp: 8421

Ion Ratio Lower Upper

50 100

52 32.4 24.4 45.4





#5

Vinyl chloride

Concen: 2.098 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

Tot Ion: 62 Resp: 11632

Ion Ratio Lower Upper

62 100

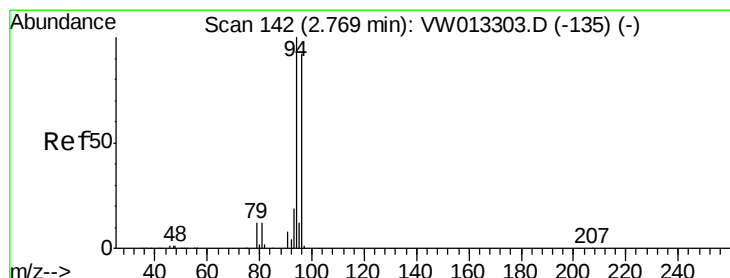
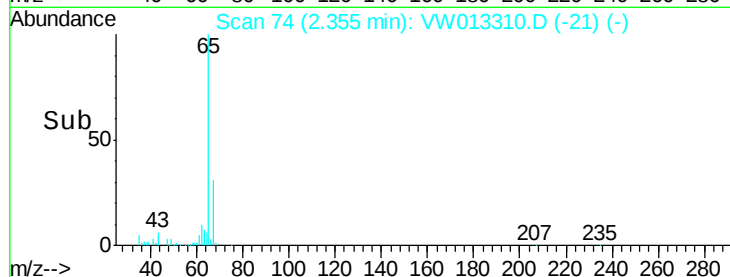
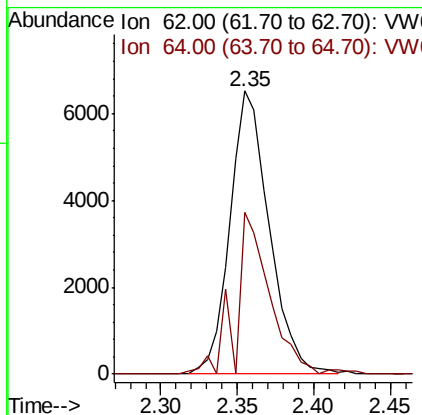
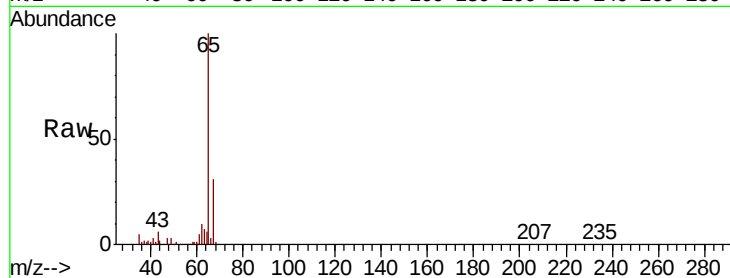
64 57.2 23.2 43.0#

Manual Integrations

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#6

Bromomethane

Concen: 2.056 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW013310.D

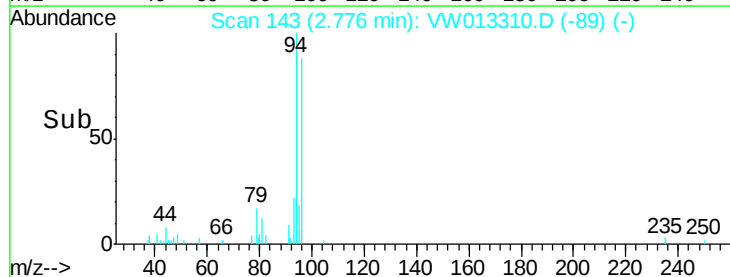
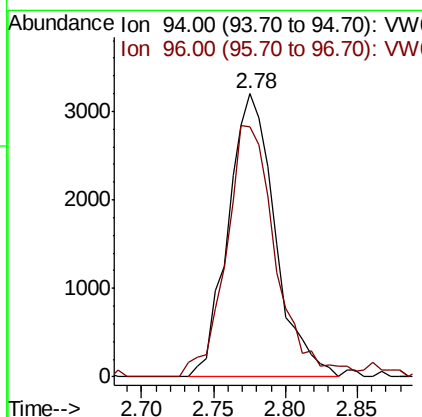
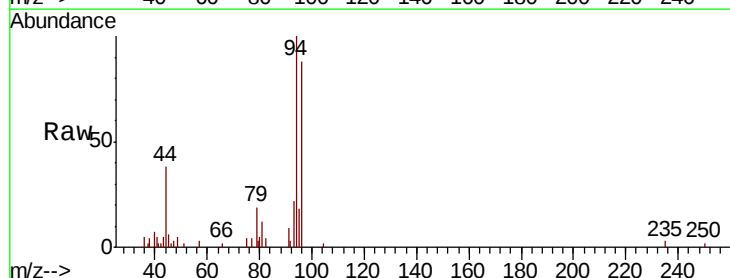
Acq: 26 Sep 2019 17:52

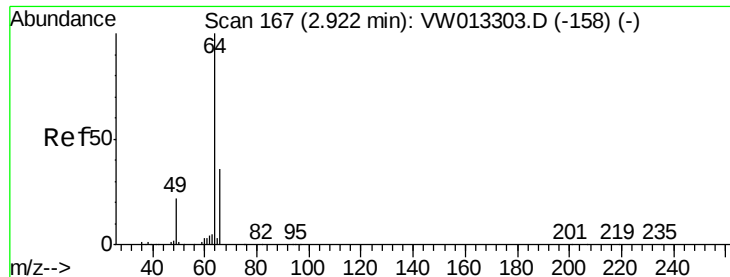
Tgt Ion: 94 Resp: 7249

Ion Ratio Lower Upper

94 100

96 82.1 9.7 184.3





#8

Chloroethane

Concen: 2.072 ug/L m

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

MDL06

Tot Ion: 64 Resp: 6968

Ion Ratio Lower Upper

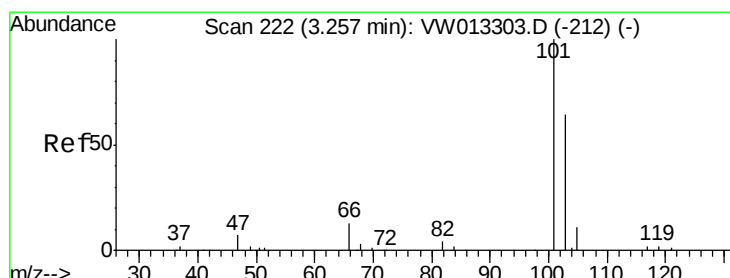
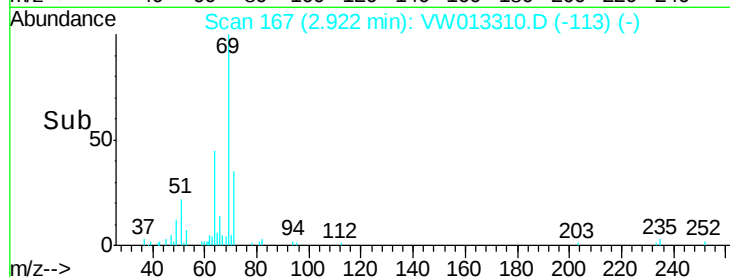
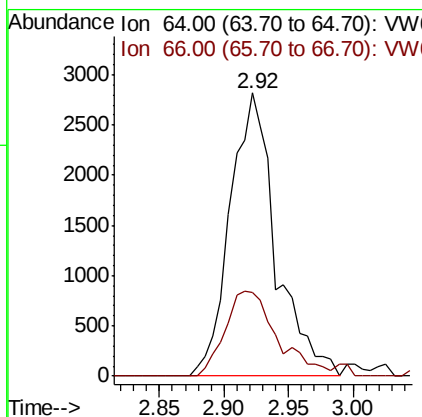
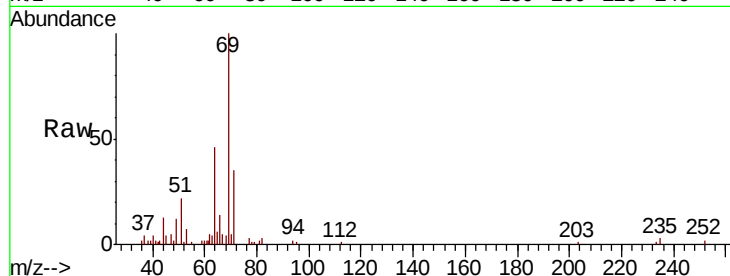
64 100

66 29.3 22.7 42.1

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#9

Trichlorofluoromethane

Concen: 1.631 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW013310.D

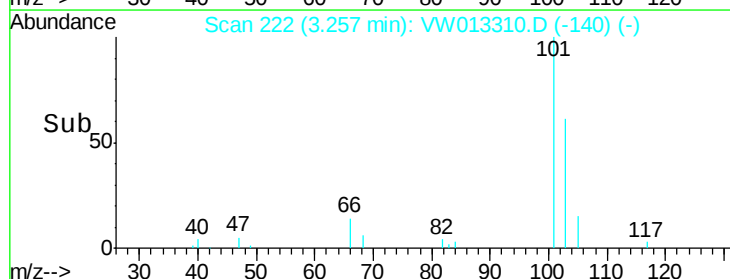
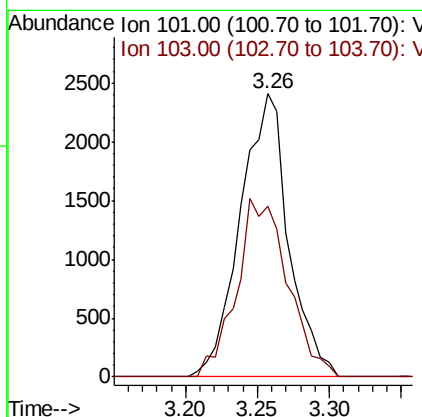
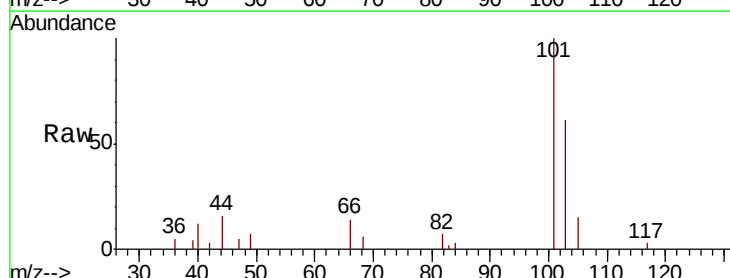
Acq: 26 Sep 2019 17:52

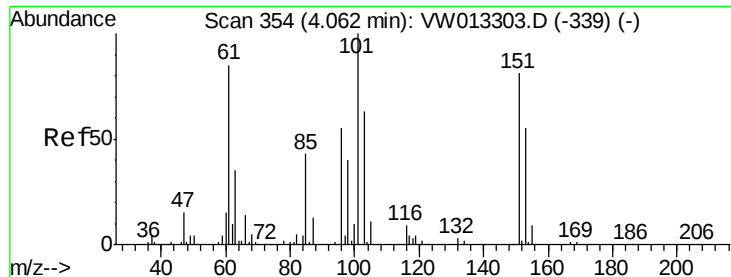
Tgt Ion: 101 Resp: 5606

Ion Ratio Lower Upper

101 100

103 66.7 45.2 84.0





#11

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

Concen: 2.597 ug/L m

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

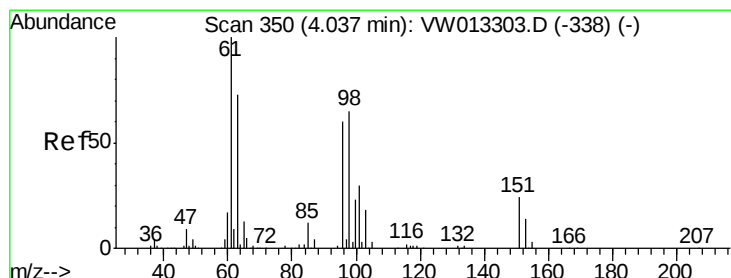
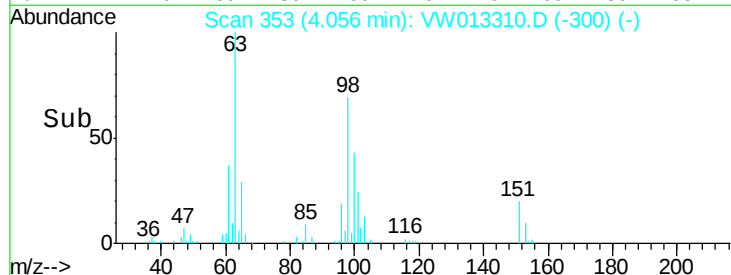
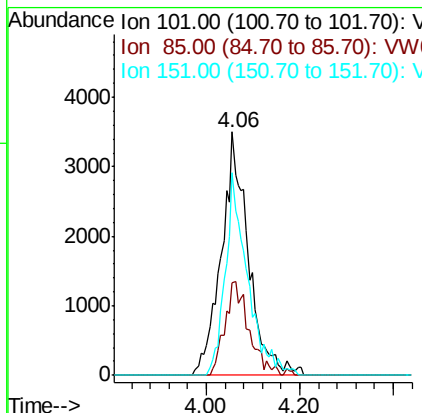
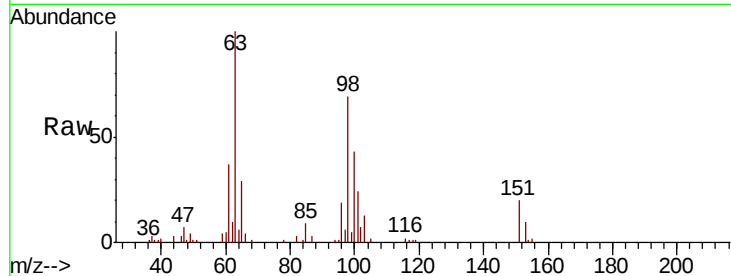
ClientSampleId :

MDL06

Tot Ion:	101	Resp:	14104
Ion Ratio	Lower	Upper	
101	100		
85	19.0	31.8	47.8#
151	56.9	65.4	98.0#

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#12

1,1-Dichloroethene

Concen: 2.297 ug/L

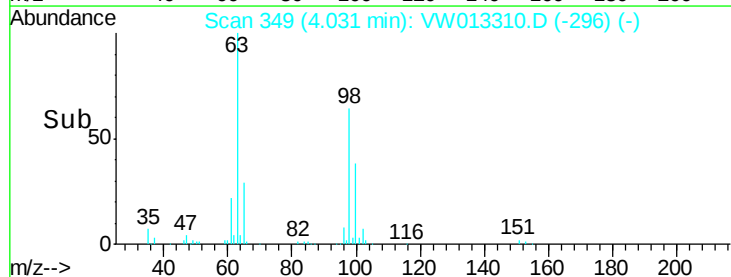
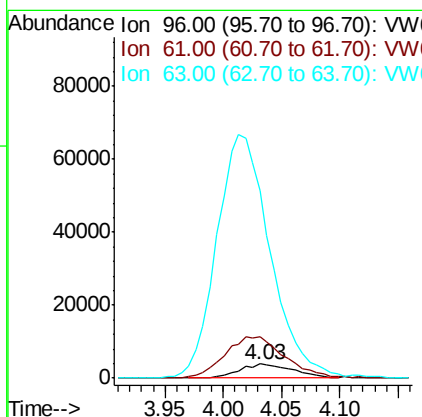
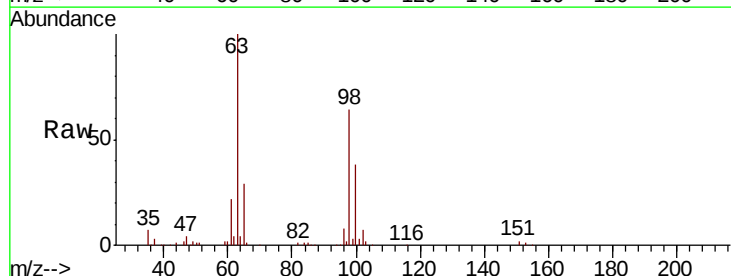
RT: 4.03 min Scan# 349

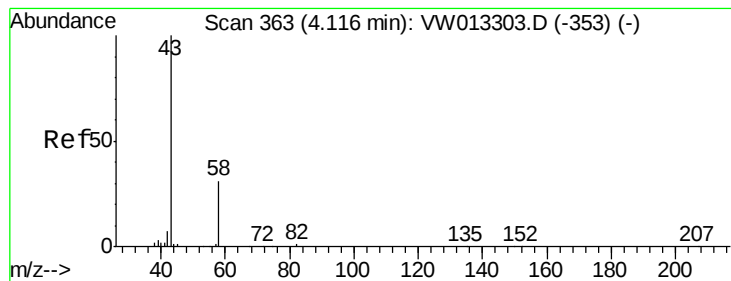
Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Tgt Ion:	96	Resp:	12661
Ion Ratio	Lower	Upper	
96	100		
61	288.9	115.9	215.3#
63	1310.1	88.9	165.1#





#13

Acetone

Concen: 5.856 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

MDL06

Tot Ion: 43 Resp: 9603

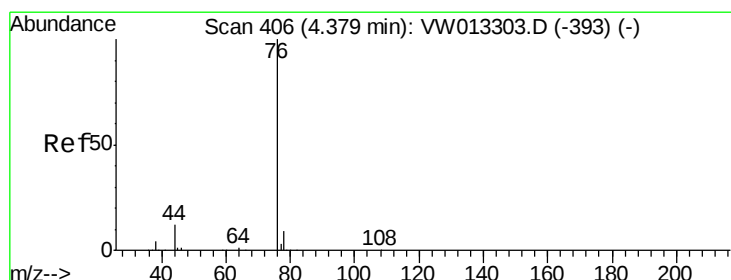
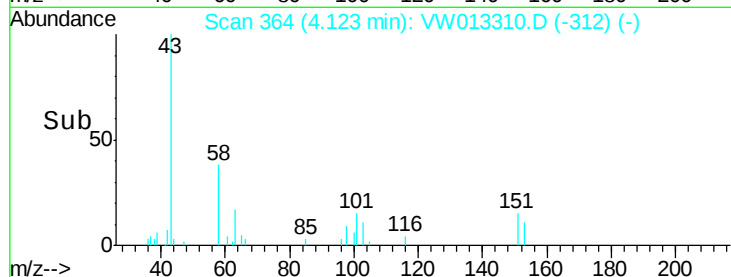
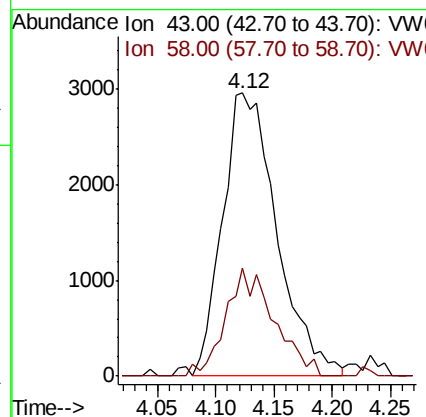
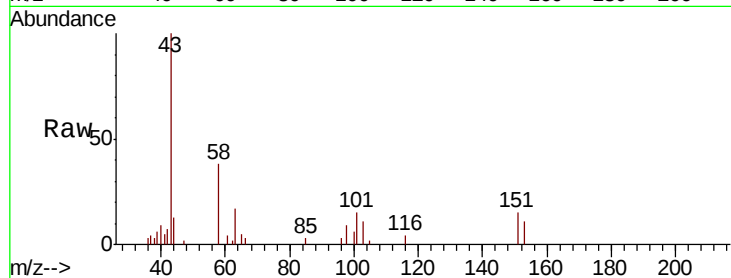
Ion Ratio Lower Upper

43 100

58 15.3 0.0 63.2

Manual Integrations
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#14

Carbon disulfide

Concen: 1.985 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW013310.D

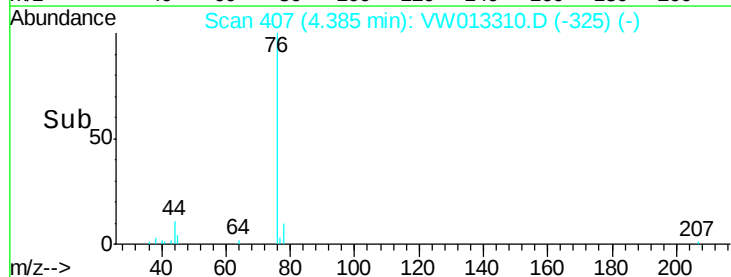
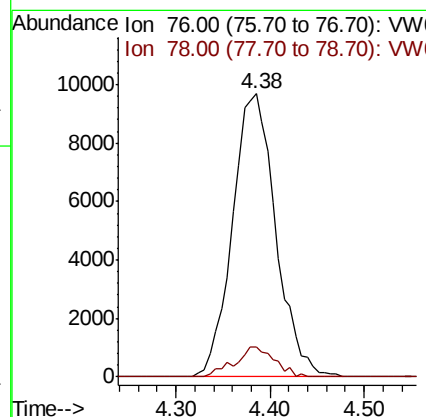
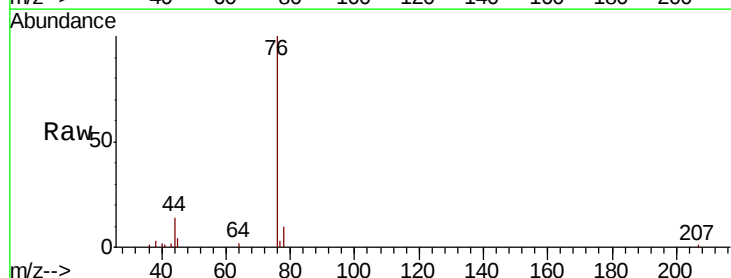
Acq: 26 Sep 2019 17:52

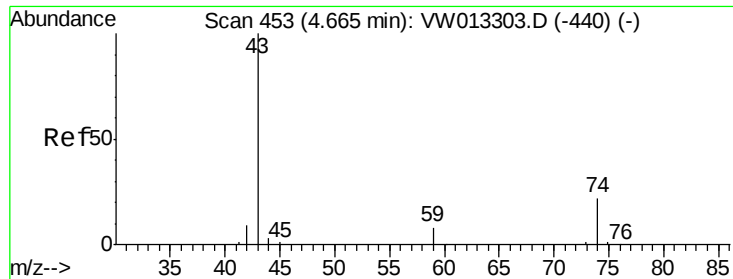
Tgt Ion: 76 Resp: 31053

Ion Ratio Lower Upper

76 100

78 10.5 7.2 10.8





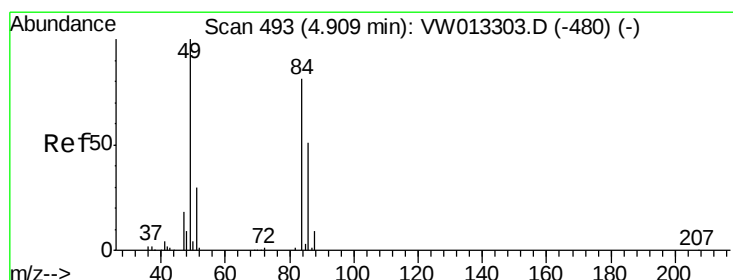
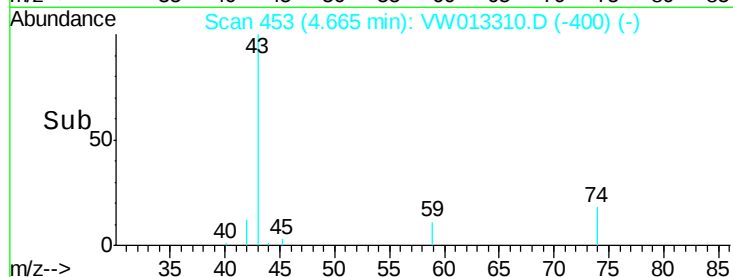
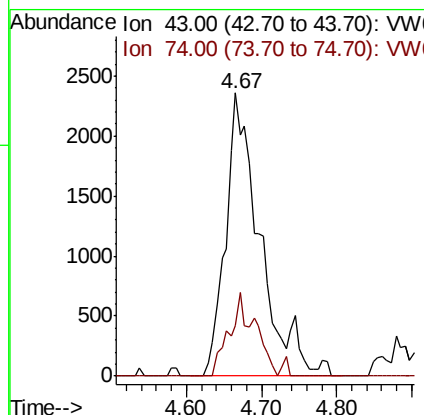
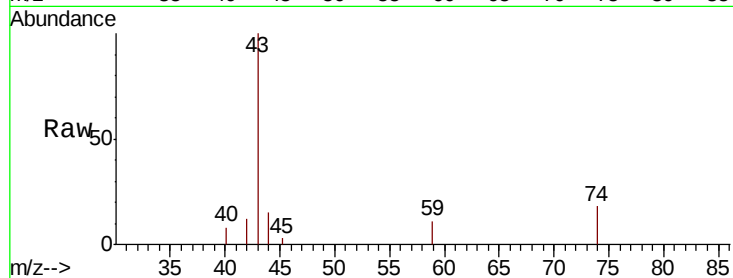
#15
Methvl Acetate
Concen: 2.366 ug/L m
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Instrument :
MSVOA_W
ClientSampled :
MDL06

Tot Ion: 43 Resp: 7487
Ion Ratio Lower Upper
43 100
74 1.1 18.7 28.1#

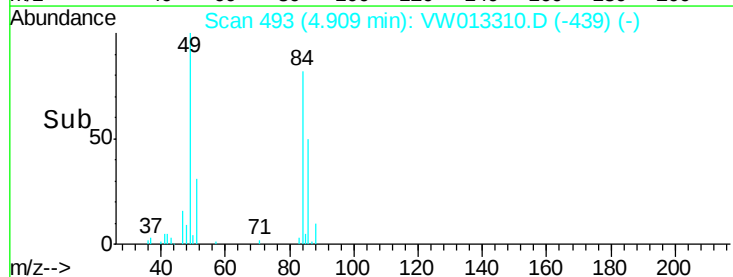
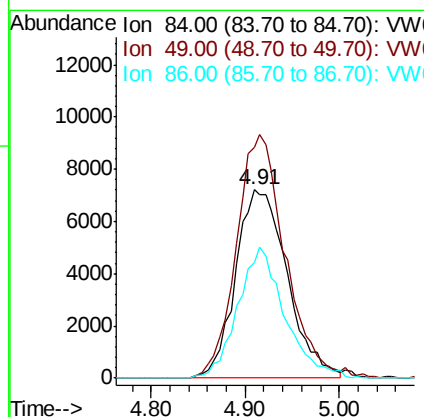
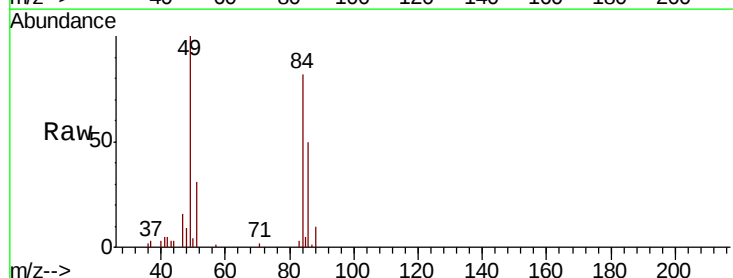
Manual Integrations
APPROVED

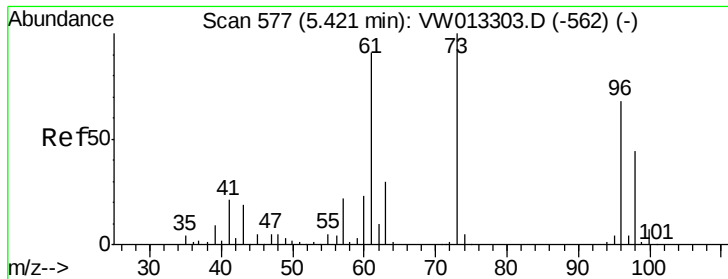
MMDadoda
10/9/2019 2:13:32 PM



#16
Methylene chloride
Concen: 3.861 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion: 84 Resp: 27578
Ion Ratio Lower Upper
84 100
49 122.5 84.8 157.4
86 61.4 44.0 81.6





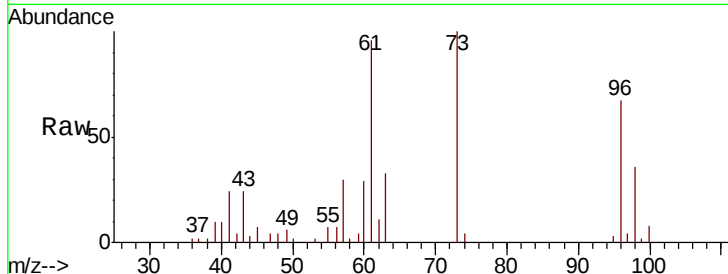
#17
Methvl tert-butvl Ether
Concen: 2.263 ug/L
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Instrument :
MSVOA_W
ClientSampleId :
MDL06

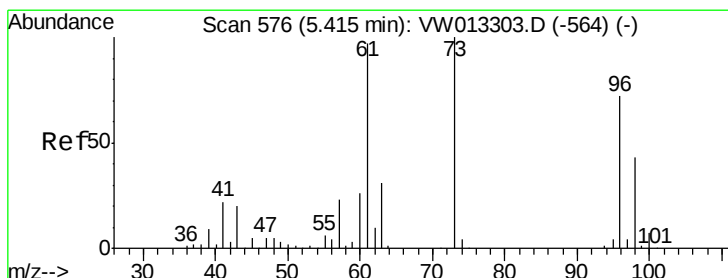
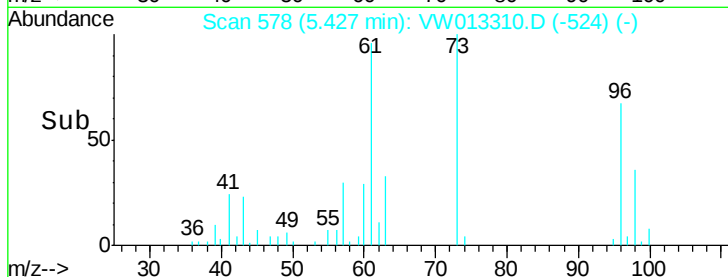
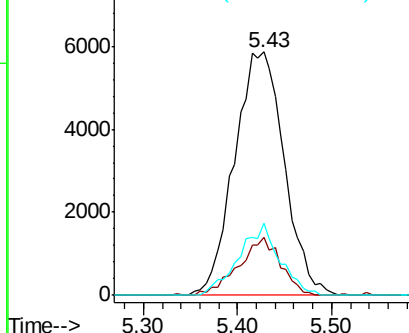
Tot Ion	Ratio	Lower	Upper
73	100		
43	20.1	15.3	22.9
57	11.5	18.2	27.4

Manual Integrations
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MMDadoda
10/9/2019 2:13:32 PM



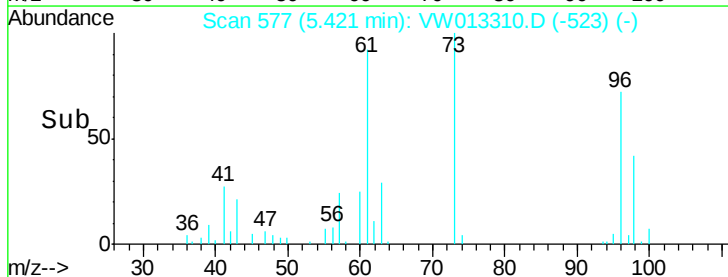
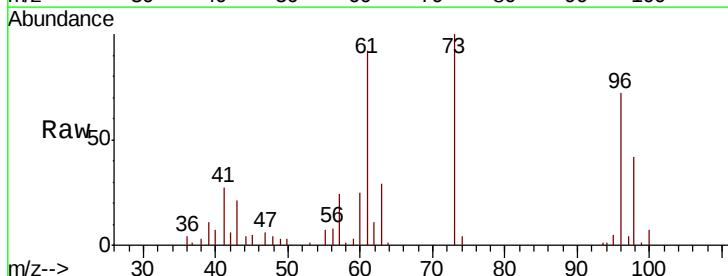
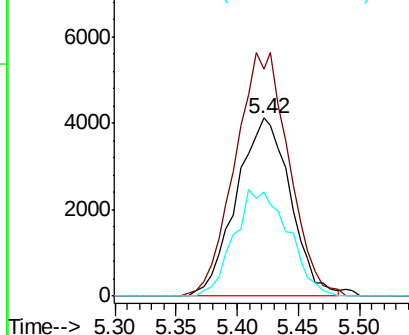
Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

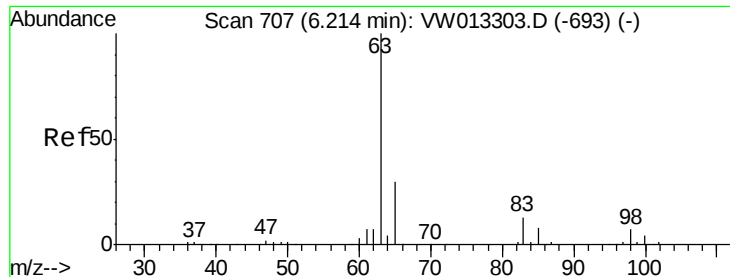


#18
trans-1,2-Dichloroethene
Concen: 2.155 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion	Ratio	Lower	Upper
96	100		
61	127.0	91.2	169.4
98	58.6	44.7	82.9

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





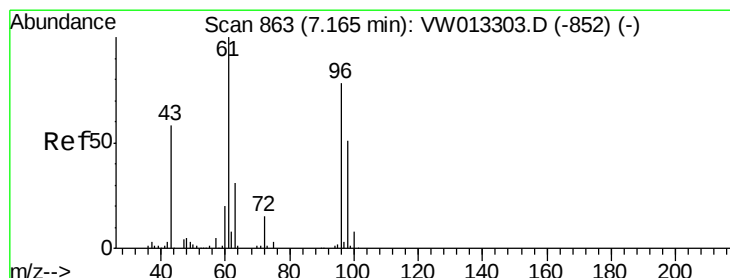
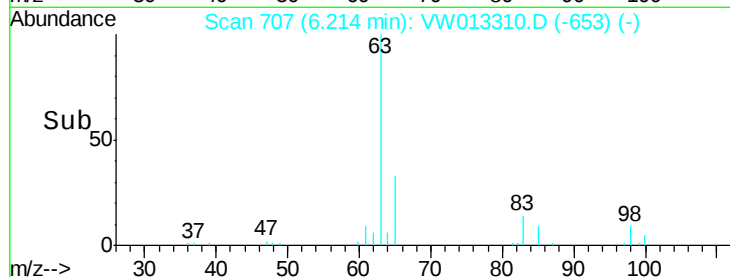
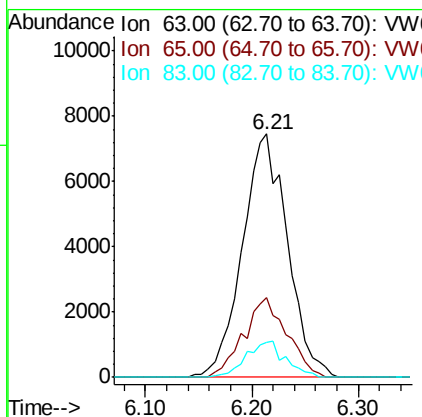
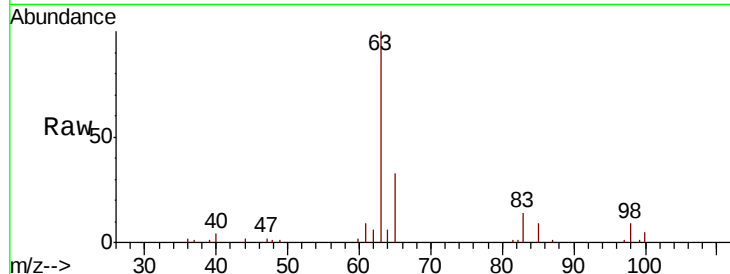
#19
 1,1-Dichloroethane
 Concen: 2.140 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Instrument :
 MSVOA_W
 ClientSampled :
 MDL06

Tot Ion:	63	Resp:	22120
Ion	Ratio	Lower	Upper
63	100		
65	32.5	21.8	40.4
83	14.2	9.3	17.3

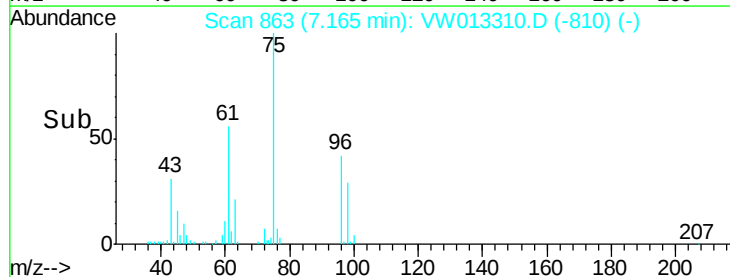
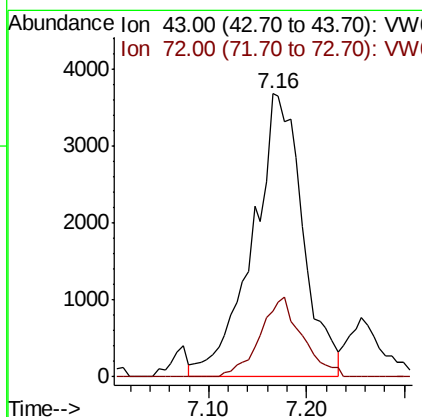
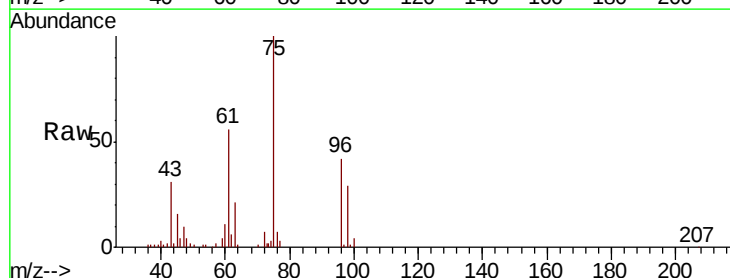
Manual Integrations
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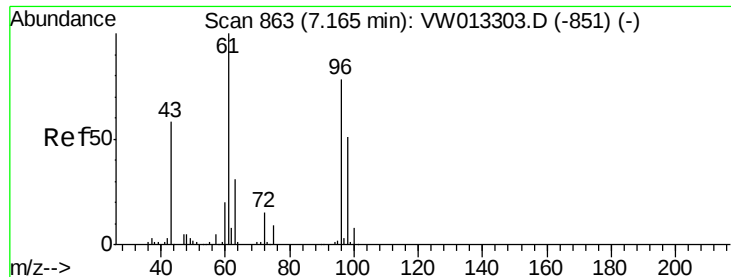
MMDadoda
 10/9/2019 2:13:32 PM



#21
 2-Butanone
 Concen: 5.585 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Tgt Ion:	43	Resp:	13191
Ion	Ratio	Lower	Upper
43	100		
72	23.5	13.2	39.6





#22

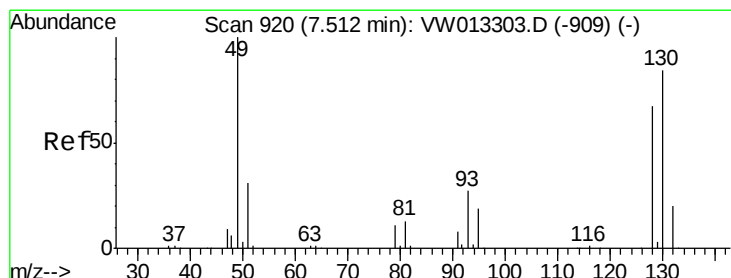
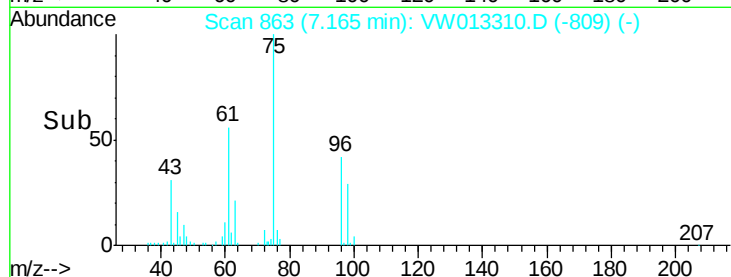
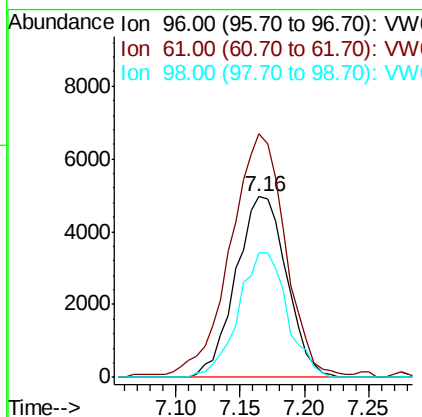
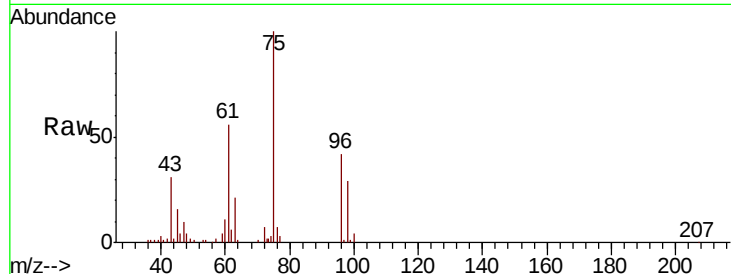
cis-1,2-Dichloroethene
Concen: 2.111 ug/L
RT: 7.16 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Instrument :
MSVOA_W
ClientSampled :
MDL06

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.9	86.0	159.6
98	68.9	43.5	80.9

Manual Integrations
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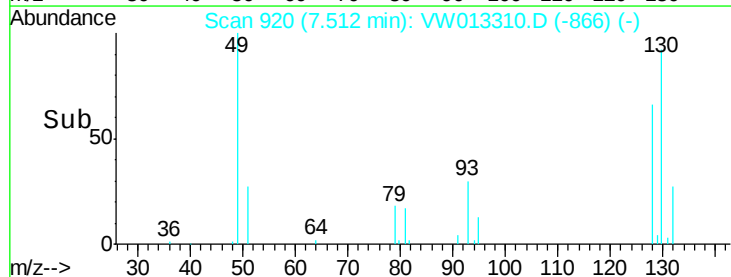
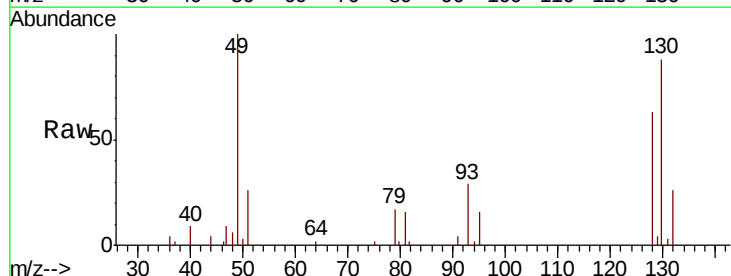
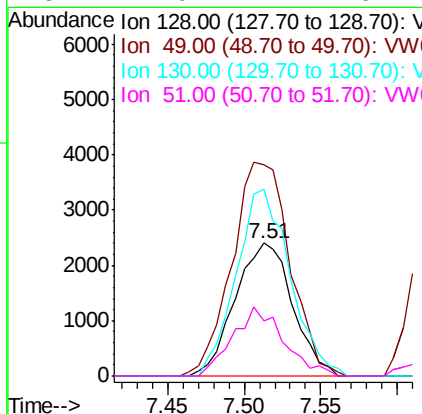
MMDadoda
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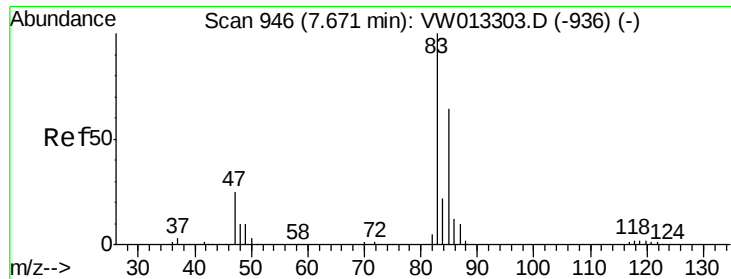


#23

Bromochloromethane
Concen: 2.169 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion	Ratio	Lower	Upper
128	100		
49	158.4	114.6	212.8
130	140.1	92.6	172.0
51	41.0	42.7	64.1#





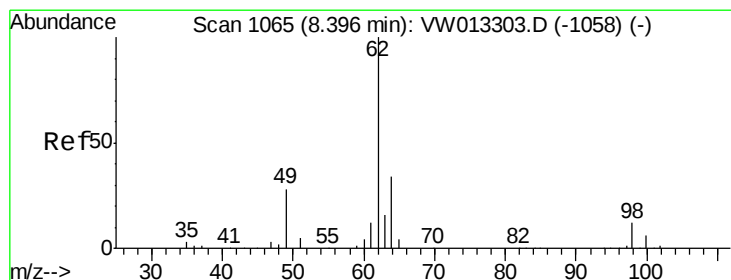
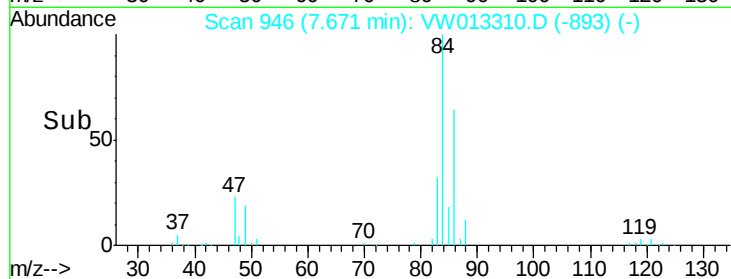
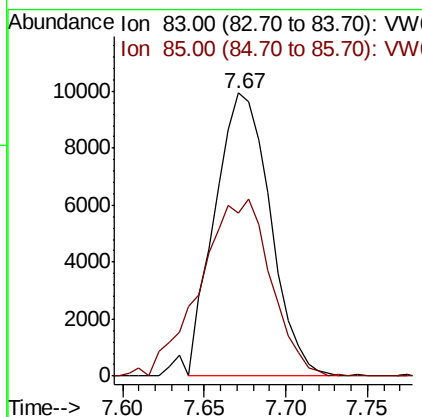
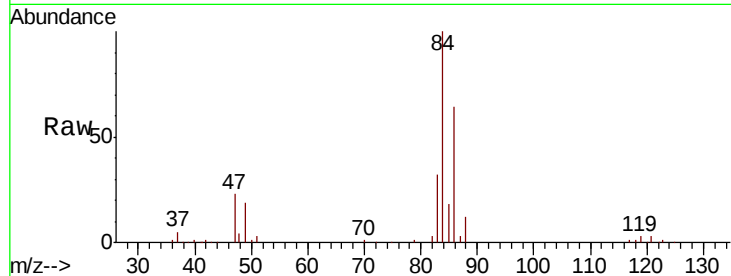
#25
Chloroform
Concen: 2.319 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Instrument :
MSVOA_W
ClientSampled :
MDL06

Tot Ion	83	85	Ratio	100	78.5	Resp	23551	Lower	Upper
83	100								
85		78.5				45.9			85.3

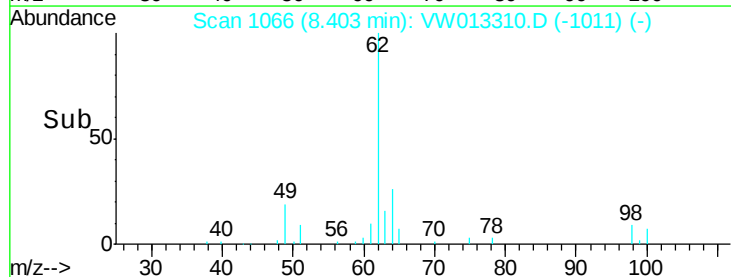
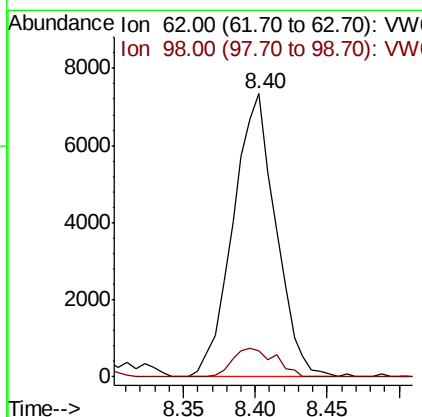
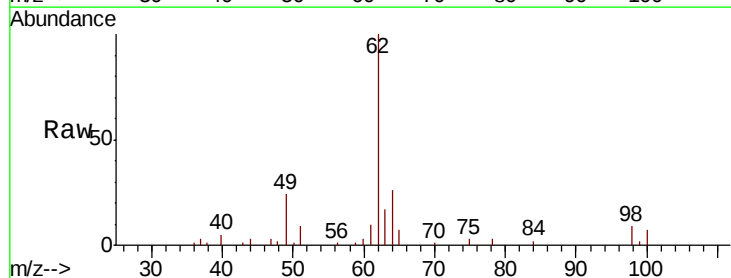
Manual Integrations
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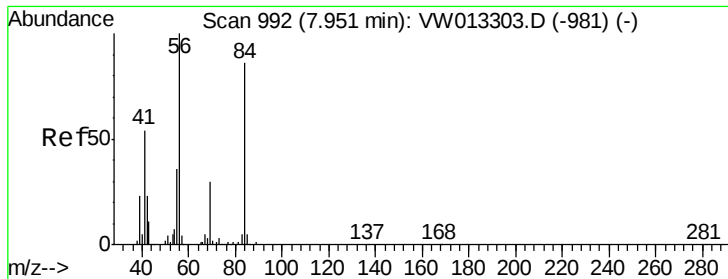
MMDadoda
10/9/2019 2:13:32 PM



#27
1,2-Dichloroethane
Concen: 2.285 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion	62	98	Ratio	100	9.1	Resp	15200	Lower	Upper
62	100								
98		9.1				9.0			13.6





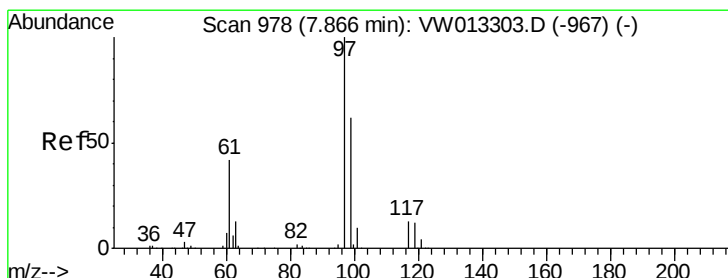
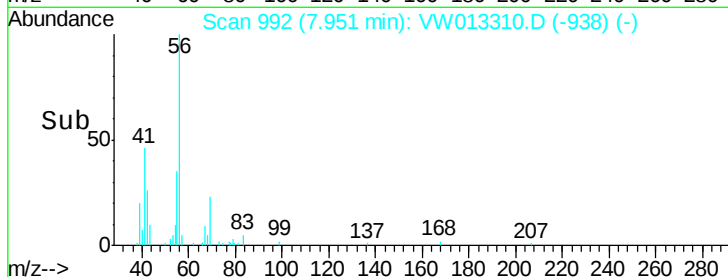
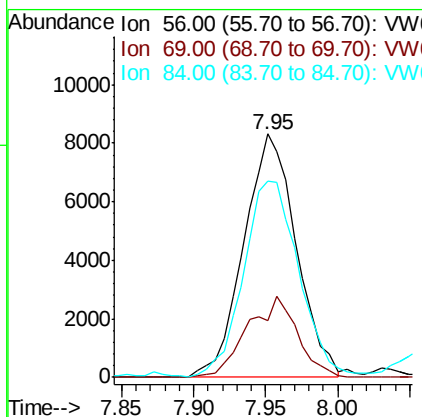
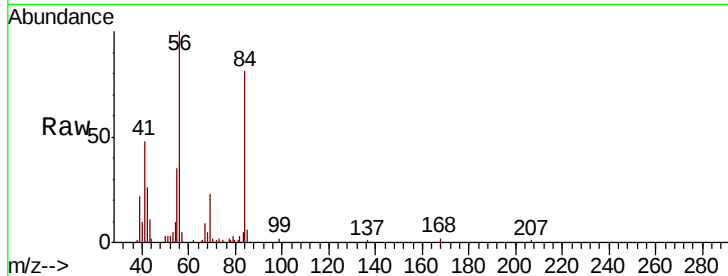
#30
Cyclohexane
Concen: 2.033 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Instrument :
MSVOA_W
ClientSampleId :
MDL06

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	16.0	24.6	37.0#	
84	85.8	69.5	104.3	

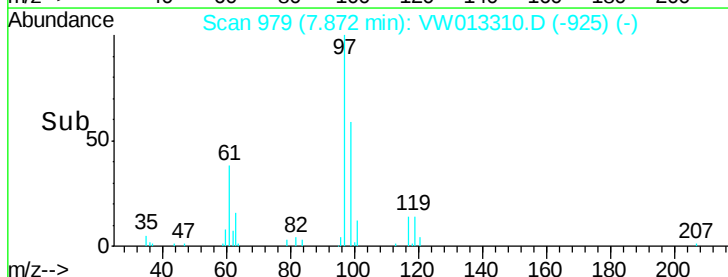
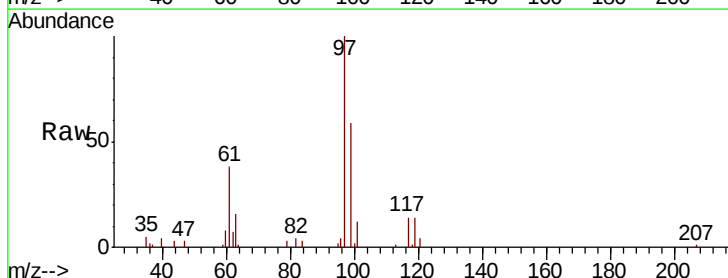
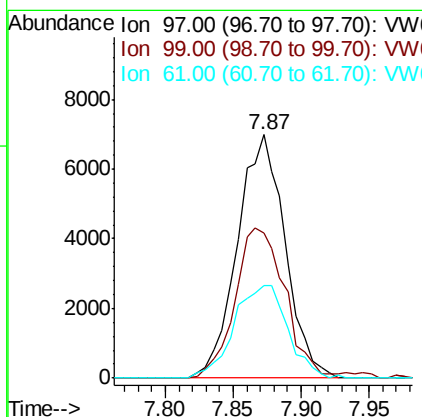
Manual Integrations
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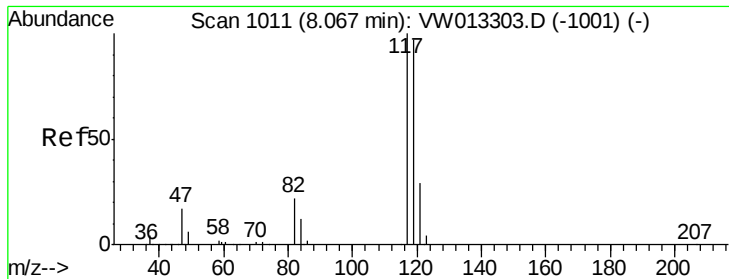
MMDadoda
10/9/2019 2:13:32 PM



#31
1,1,1-Trichloroethane
Concen: 2.076 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	64.1	50.6	75.8	
61	42.6	34.2	51.2	





#32

Carbon tetrachloride

Concen: 2.098 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

Tot Ion:117 Resp: 16499

Ion Ratio Lower Upper

117 100

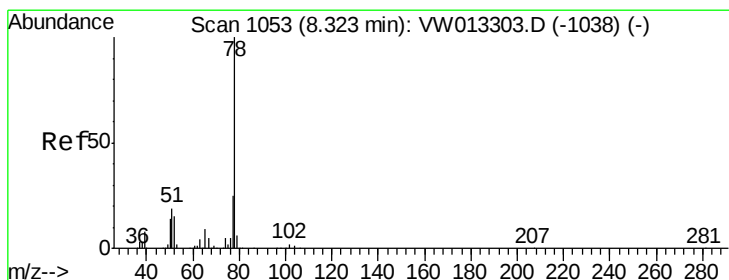
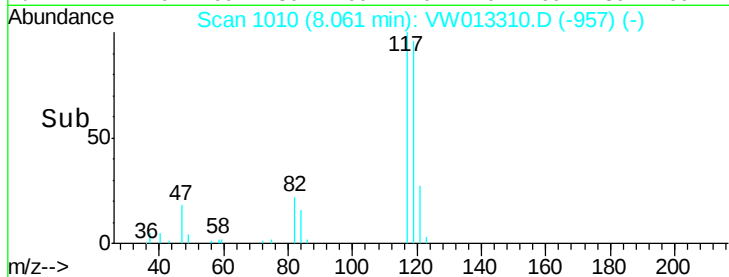
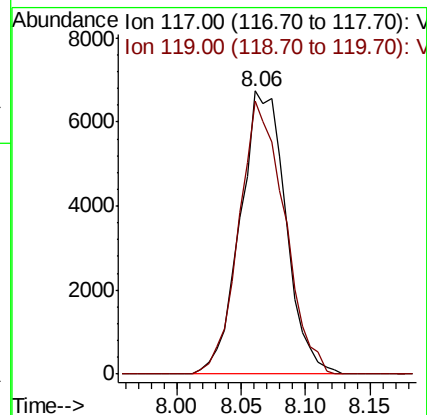
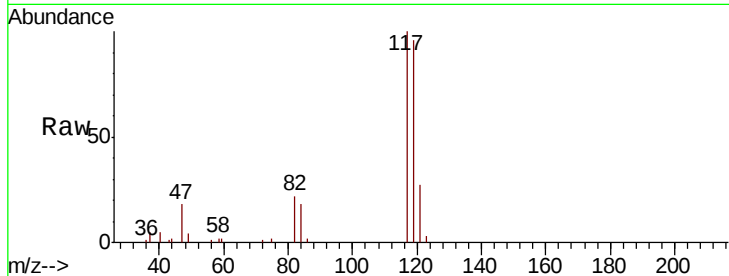
119 96.5 76.7 115.1

Manual Integrations

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MMDadoda

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#34

Benzene

Concen: 2.231 ug/L

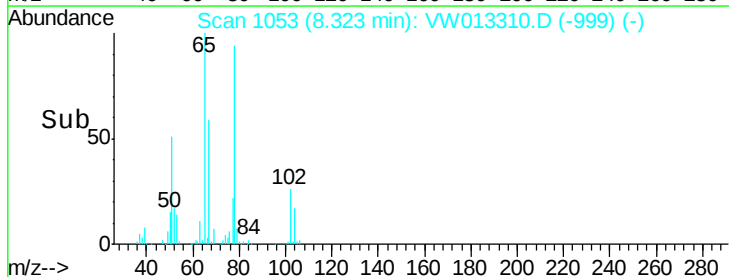
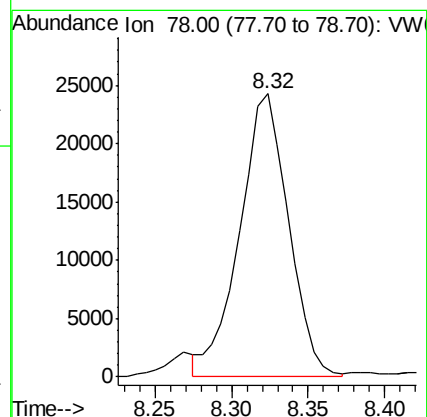
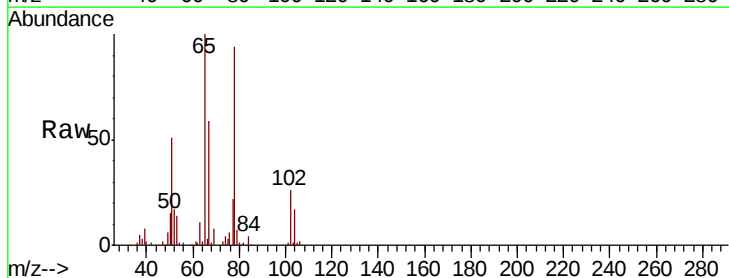
RT: 8.32 min Scan# 1053

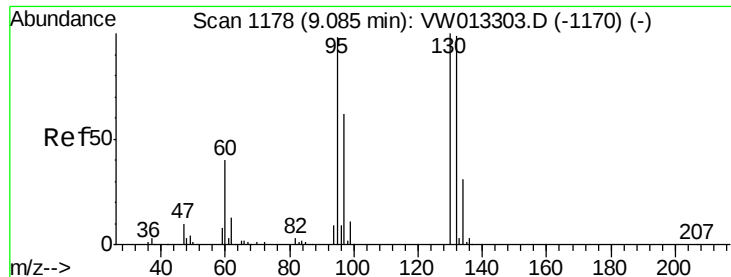
Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Tgt Ion: 78 Resp: 53765





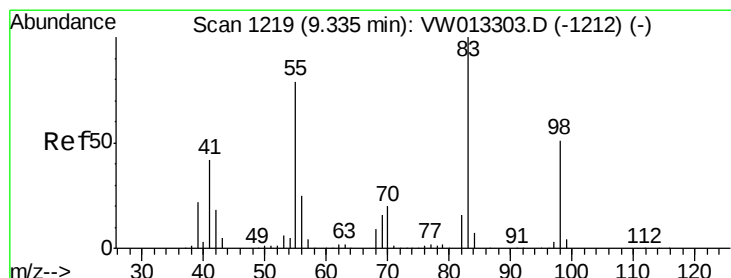
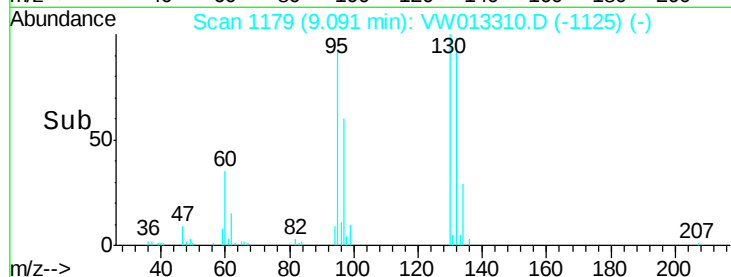
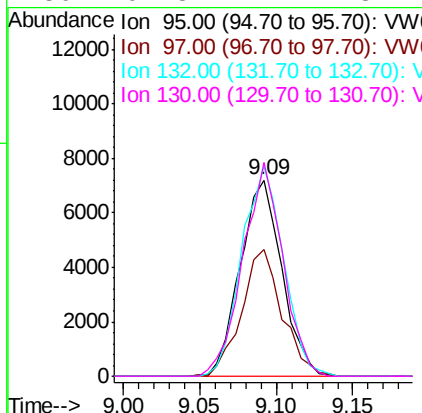
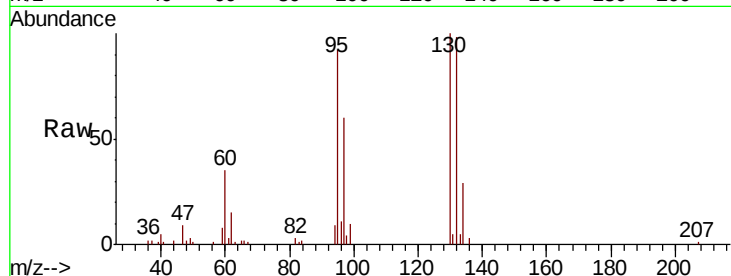
#35
 Trichloroethene
 Concen: 2.155 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Tot Ion	95	Resp	13641
Ion	Ratio	Lower	Upper
95	100		
97	63.0	44.3	82.3
132	107.7	71.7	133.3
130	104.8	74.1	137.7

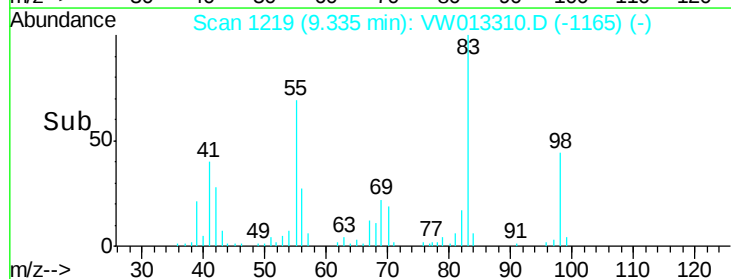
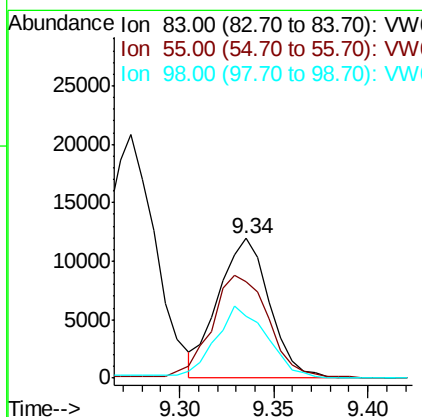
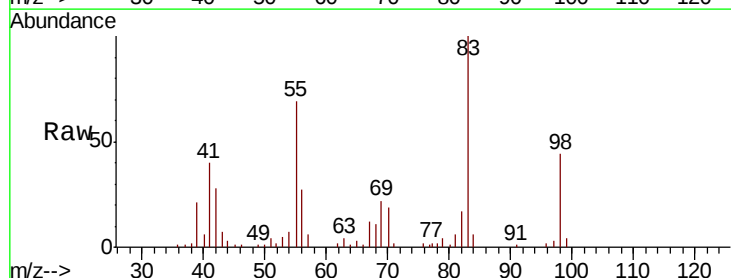
Manual Integrations
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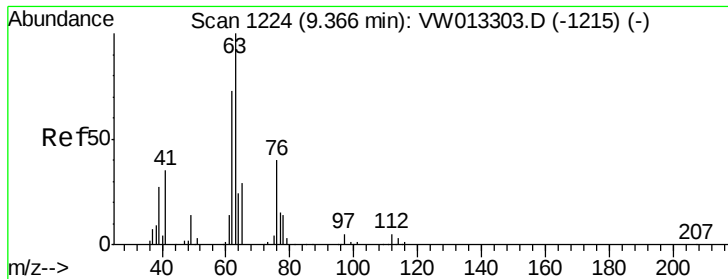
MMDadoda
 10/9/2019 2:13:32 PM



#36
 Methylcyclohexane
 Concen: 2.006 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Tgt Ion	83	Resp	22621
Ion	Ratio	Lower	Upper
83	100		
55	81.7	61.8	92.6
98	51.8	39.6	59.4





#40

1,2-Dichloropropane

Concen: 2.164 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

MDL06

Tot Ion: 63 Resp: 12831

Ion Ratio Lower Upper

63 100

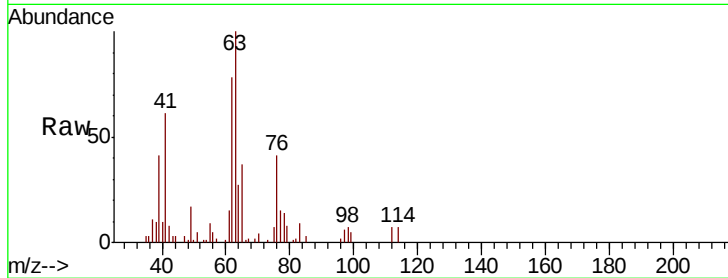
112 5.9 4.1 6.1

Manual Integrations

APPROVED

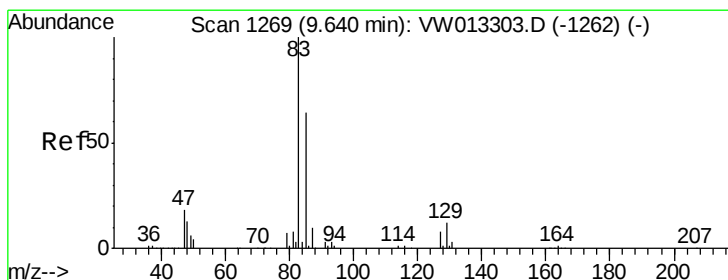
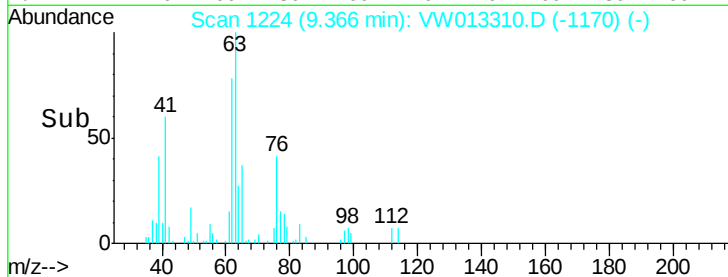
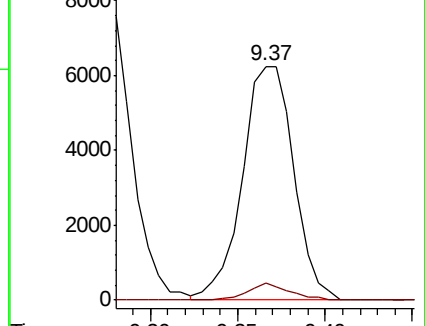
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 2.155 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

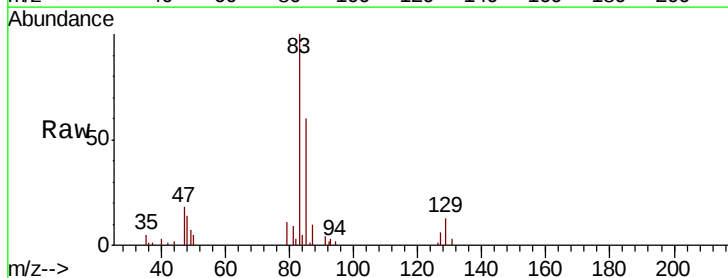
Tgt Ion: 83 Resp: 15675

Ion Ratio Lower Upper

83 100

85 60.1 43.8 81.4

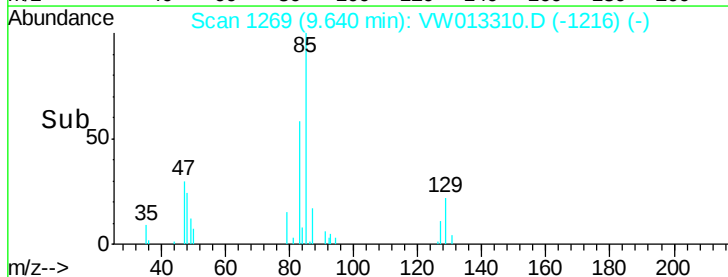
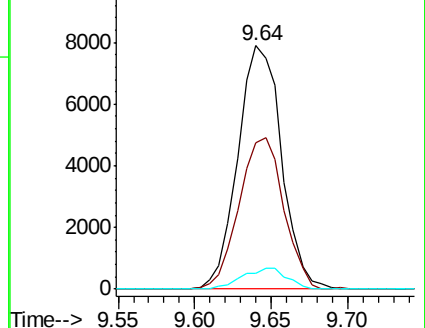
127 6.4 7.0 10.6#

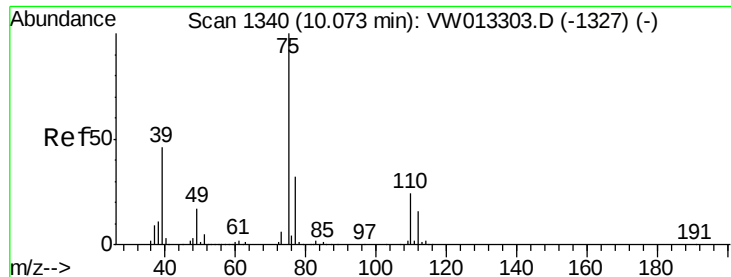


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 2.077 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

Tot Ion: 75 Resp: 19664

Ion Ratio Lower Upper

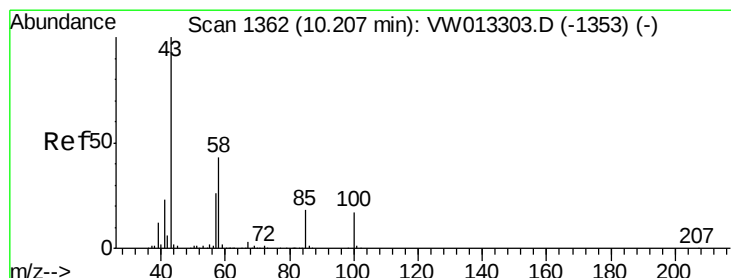
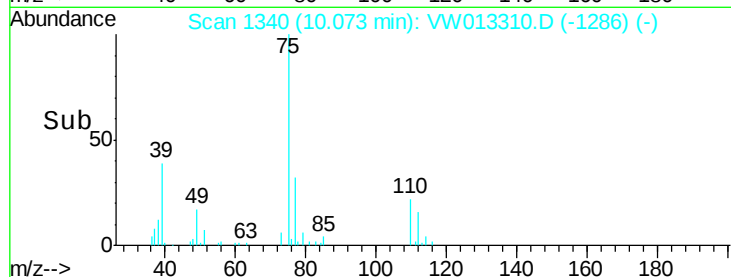
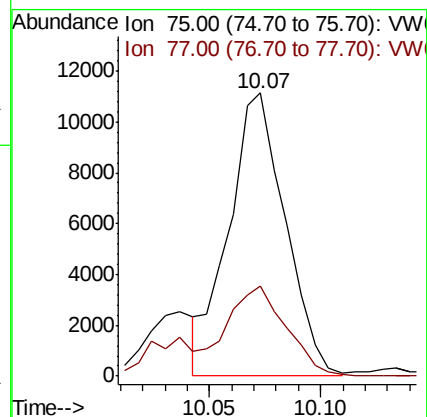
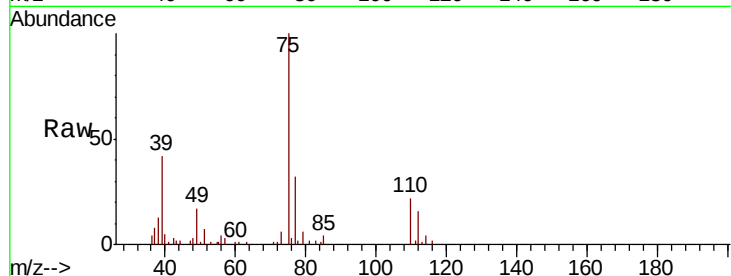
75 100

77 31.6 21.3 39.5

Manual Integrations
APPROVED

MMDadoda

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#43

4-Methyl-2-pentanone

Concen: 5.227 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

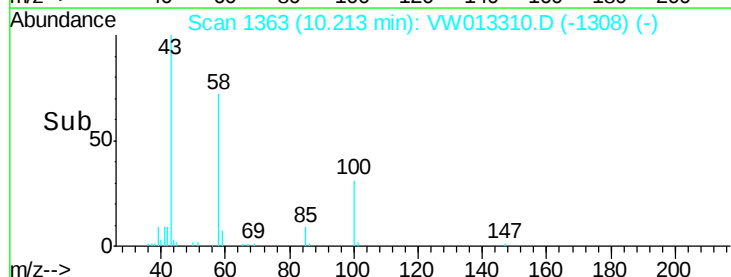
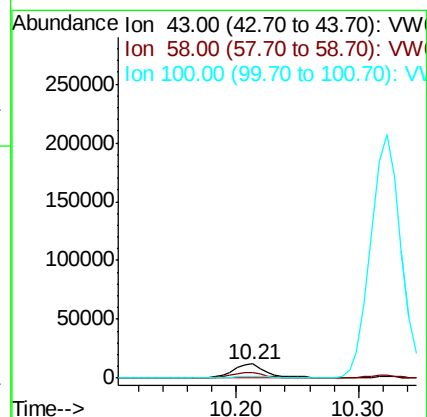
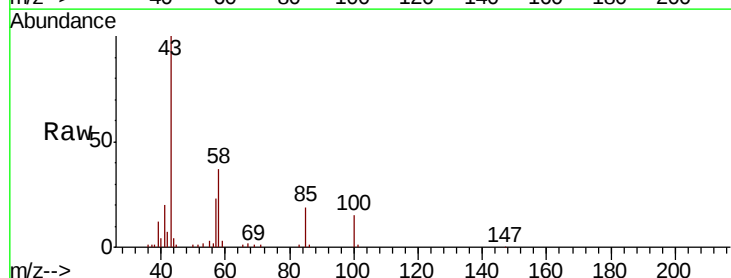
Tgt Ion: 43 Resp: 23721

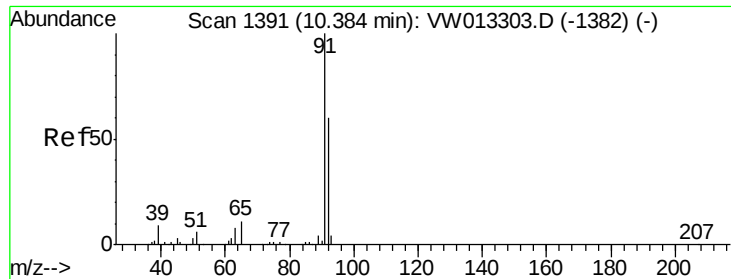
Ion Ratio Lower Upper

43 100

58 37.6 32.7 49.1

100 14.1 12.9 19.3





#44

Toluene

Concen: 2.232 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 58543

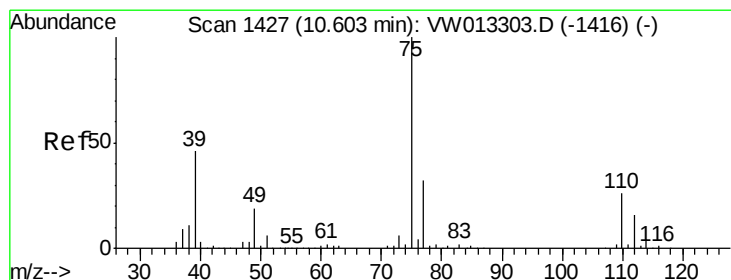
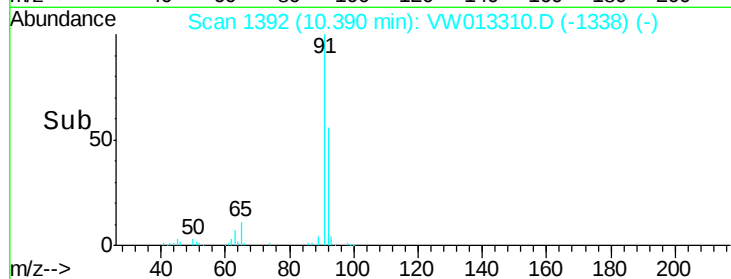
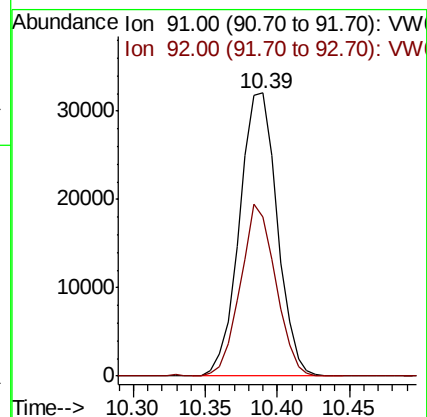
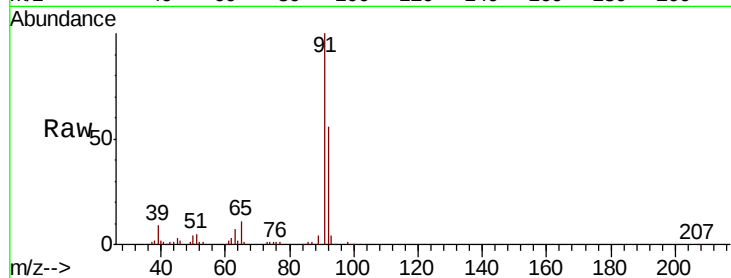
Ion Ratio Lower Upper

91 100

92 56.0 41.5 77.1

Manual Integrations
APPROVED

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#45

trans-1,3-Dichloropropene

Concen: 2.032 ug/L m

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013310.D

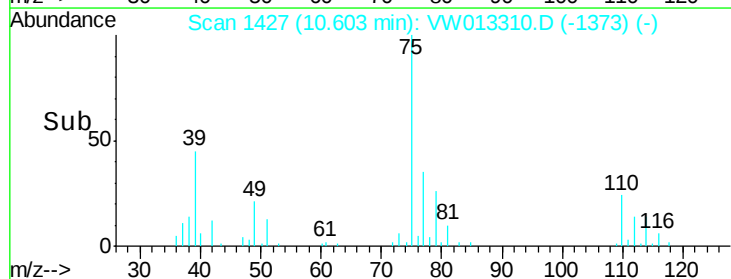
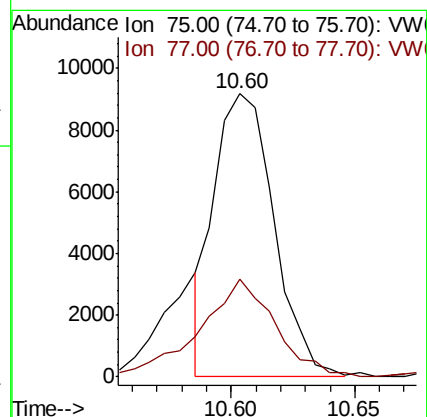
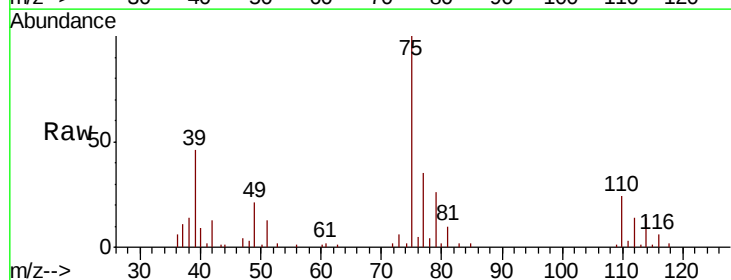
Acq: 26 Sep 2019 17:52

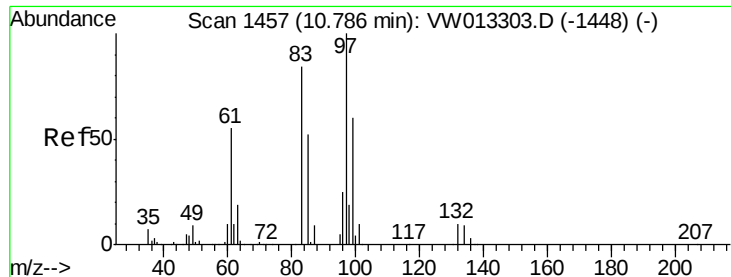
Tgt Ion: 75 Resp: 15463

Ion Ratio Lower Upper

75 100

77 34.8 20.5 38.1





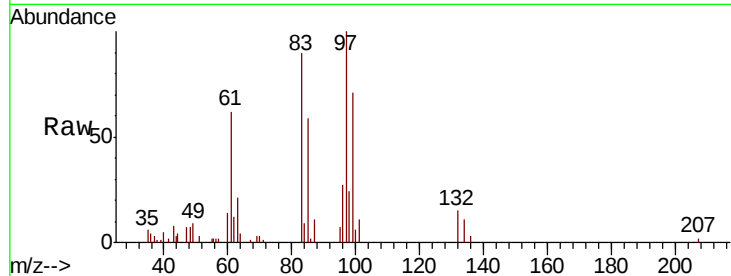
#46
1,1,2-Trichloroethane
Concen: 2.087 ug/L
RT: 10.79 min Scan# 1457
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Instrument :
MSVOA_W
ClientSampleId :
MDL06

Tot Ion:	97	Resp:	9694
Ion	Ratio	Lower	Upper
97	100		
83	90.4	59.4	110.2
85	58.9	38.7	71.9
99	71.0	45.8	85.0

Manual Integrations
APPROVED

MMDadoda
10/9/2019 2:13:32 PM



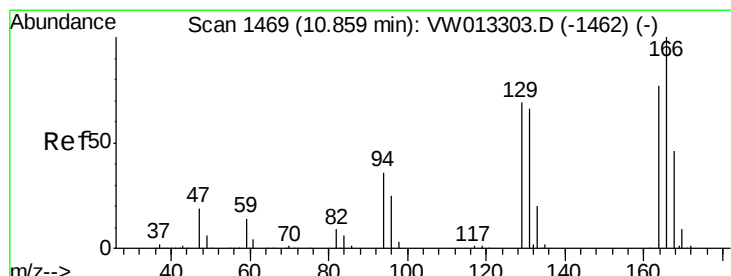
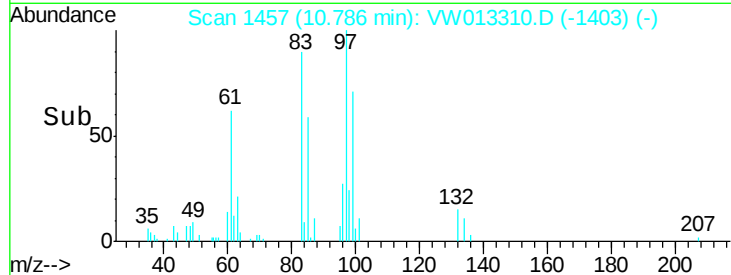
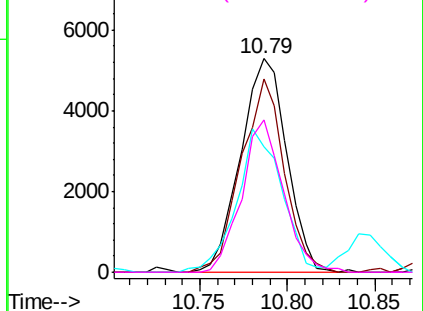
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47
Tetrachloroethene
Concen: 2.187 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion:	164	Resp:	12458
Ion	Ratio	Lower	Upper
164	100		
129	84.3	60.5	112.5
131	81.1	60.6	112.6
166	122.4	90.6	168.2

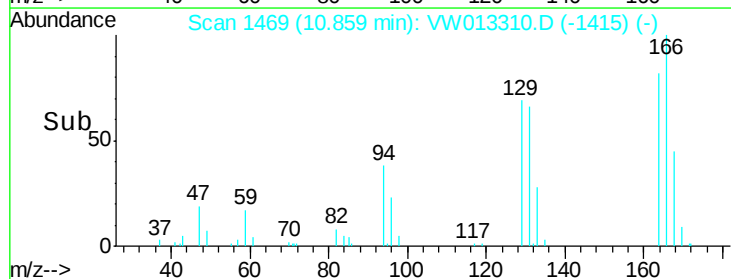
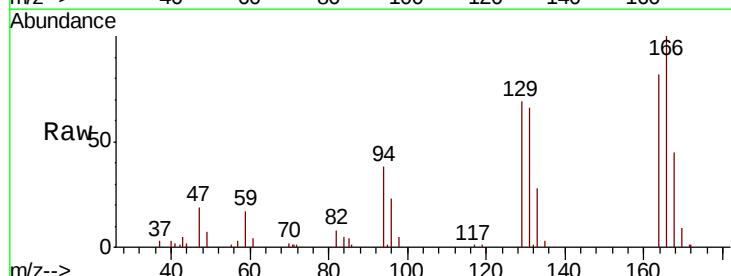
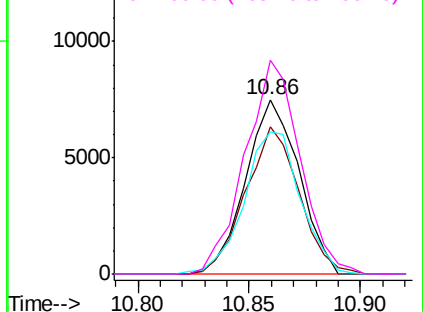
Abundance

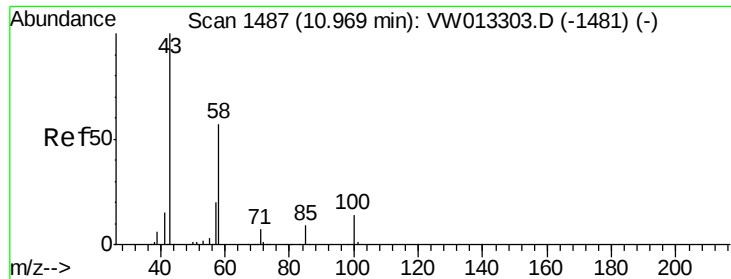
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





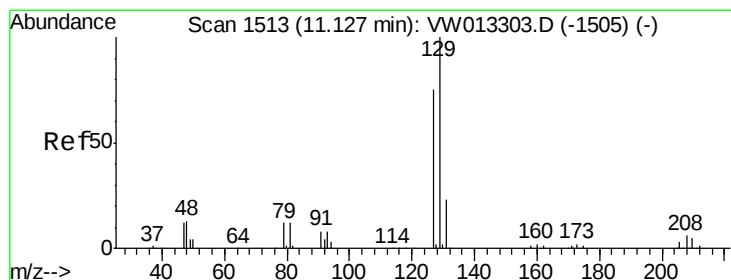
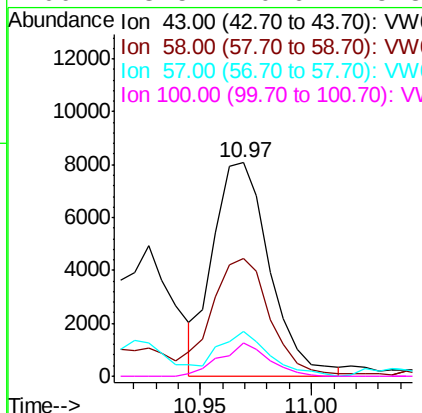
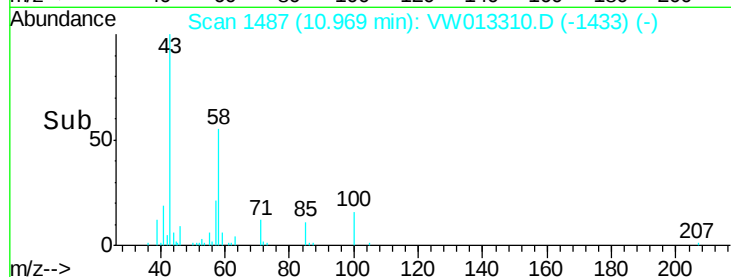
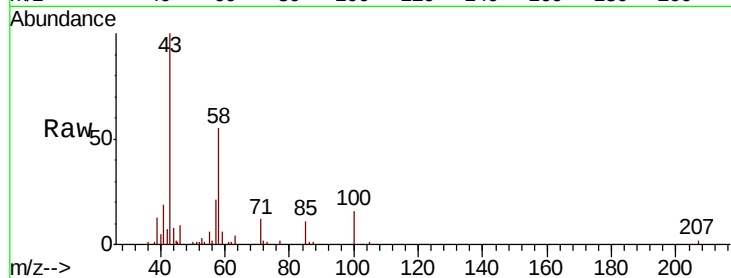
#49
2-Hexanone
Concen: 4.371 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Instrument :
MSVOA_W
ClientSampleId :
MDL06

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	57.4	44.3	66.5	
57	18.5	15.3	22.9	
100	13.5	10.6	15.8	

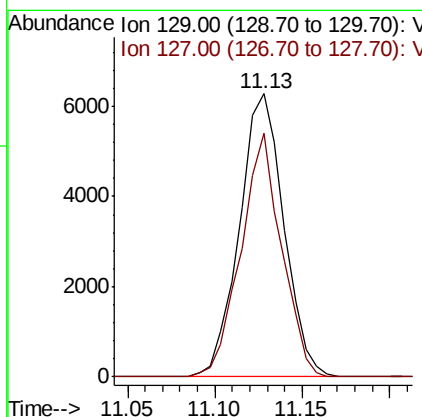
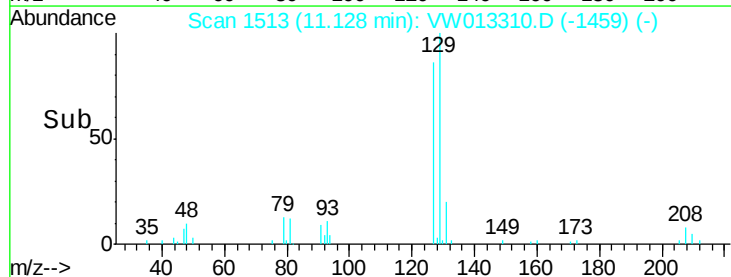
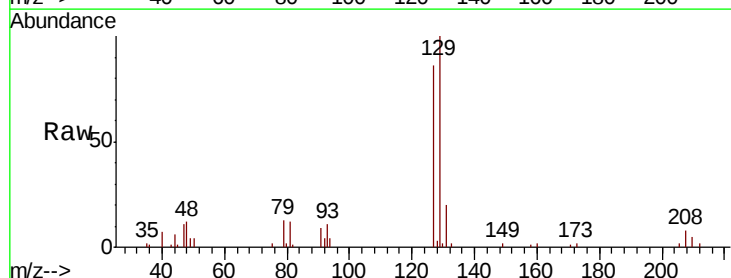
Manual Integrations
APPROVED

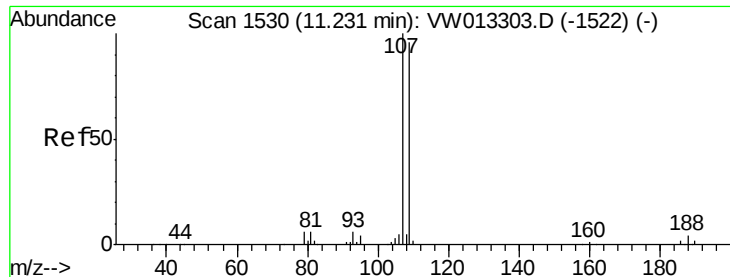
MMDadoda
10/9/2019 2:13:32 PM



#50
Dibromochloromethane
Concen: 2.080 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	86.2	56.1	104.1	





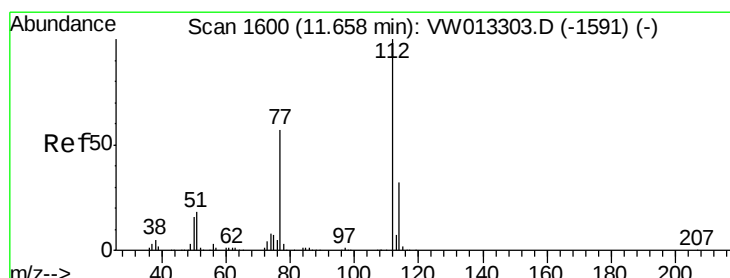
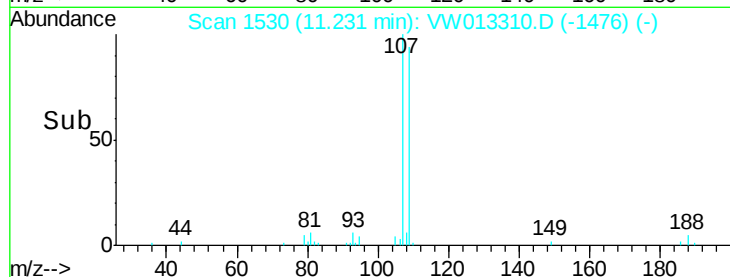
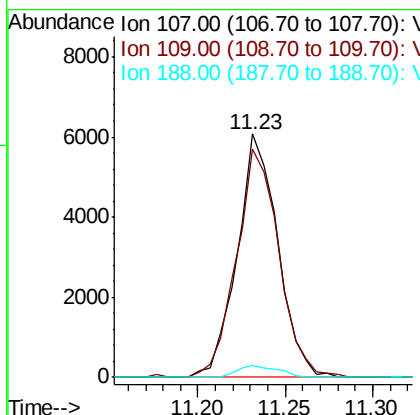
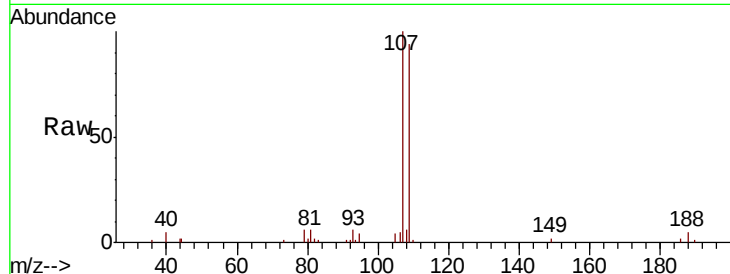
#51
 1,2-Dibromoethane
 Concen: 2.140 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	65.5	121.6
188	5.1	3.0	4.6#

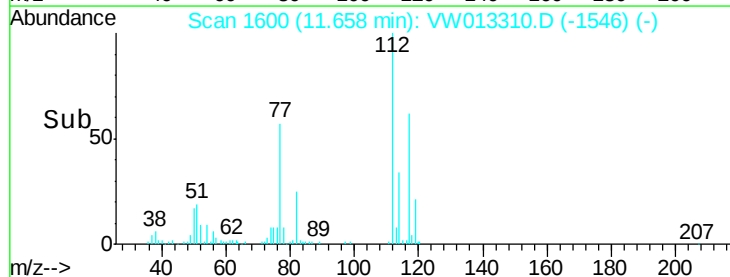
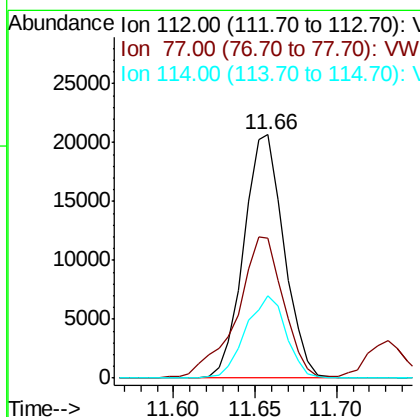
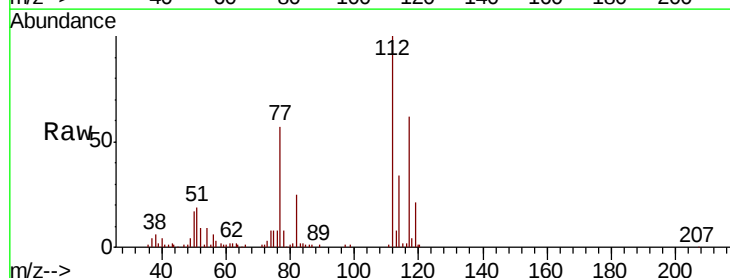
Manual Integrations
 APPROVED

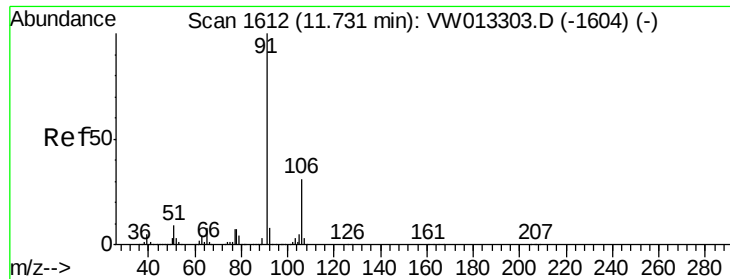
MMDadoda
 10/9/2019 2:13:32 PM



#52
 Chlorobenzene
 Concen: 2.149 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Tgt Ion	Ratio	Lower	Upper
112	100		
77	57.4	46.5	69.7
114	33.9	23.0	42.8





#53

Ethylbenzene

Concen: 2.117 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 61549

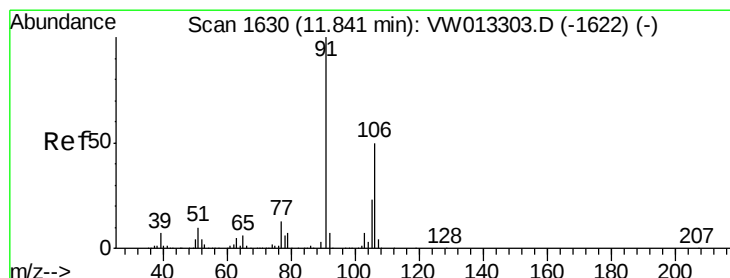
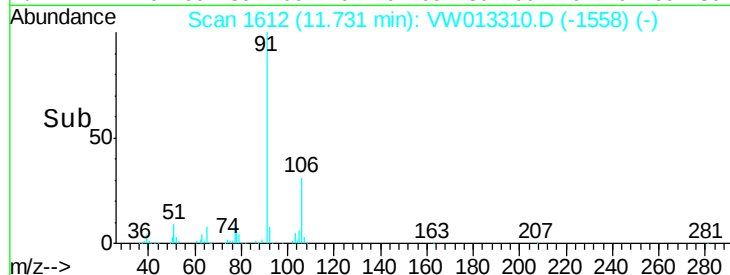
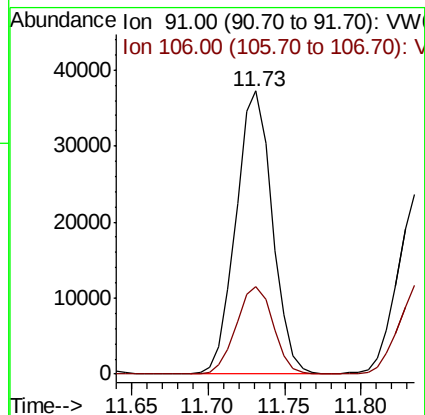
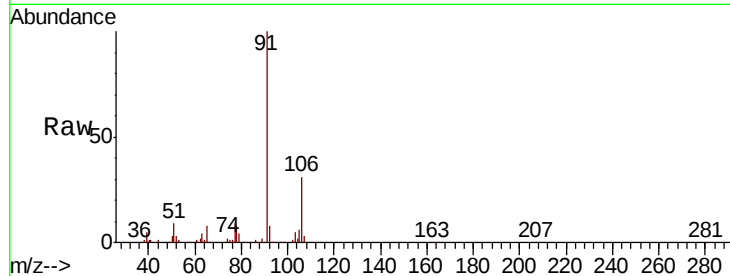
Ion Ratio Lower Upper

91 100

106 31.1 20.8 38.6

Manual Integrations
APPROVED

MMDadoda
10/9/2019 2:13:32 PM



#54

m,p-Xylene

Concen: 1.979 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW013310.D

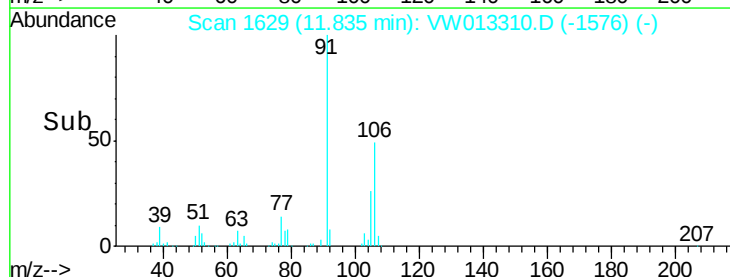
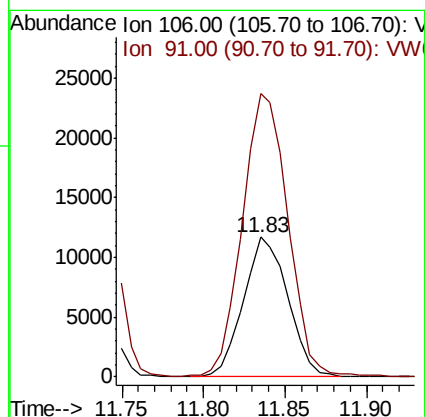
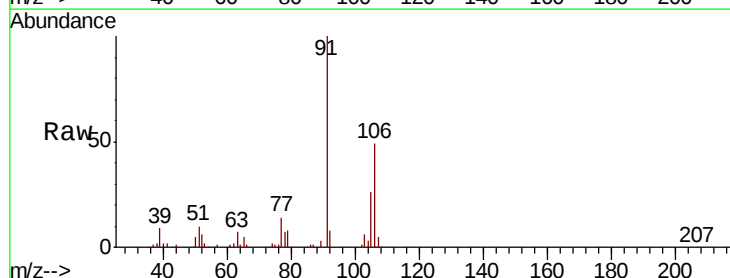
Acq: 26 Sep 2019 17:52

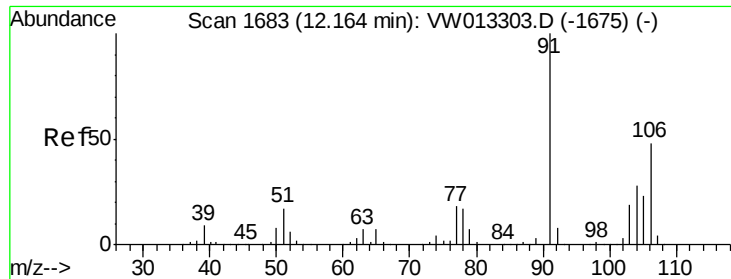
Tgt Ion: 106 Resp: 22098

Ion Ratio Lower Upper

106 100

91 202.8 138.3 256.9





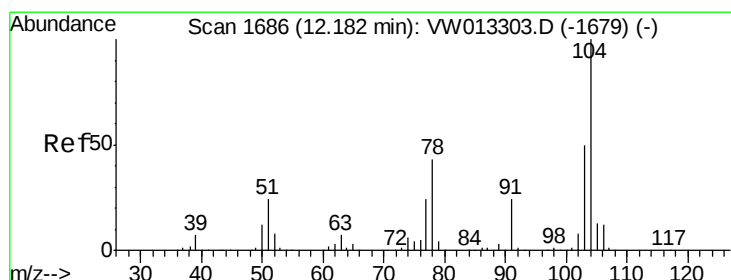
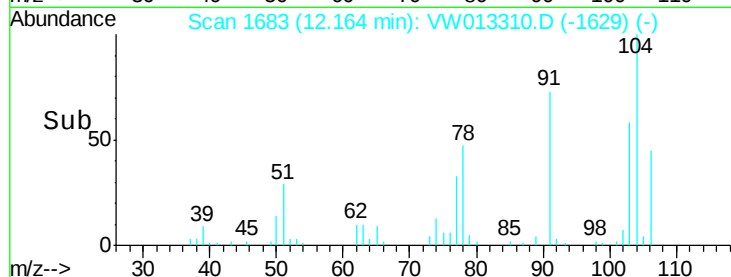
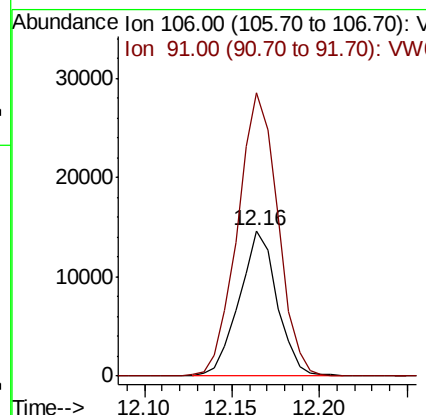
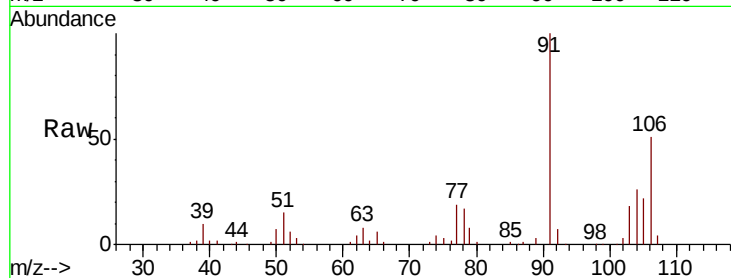
#55
o-xylene
Concen: 2.092 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Instrument :
MSVOA_W
ClientSampleId :
MDL06

Tot Ion:106 Resp: 22042
Ion Ratio Lower Upper
106 100
91 194.8 145.9 271.1

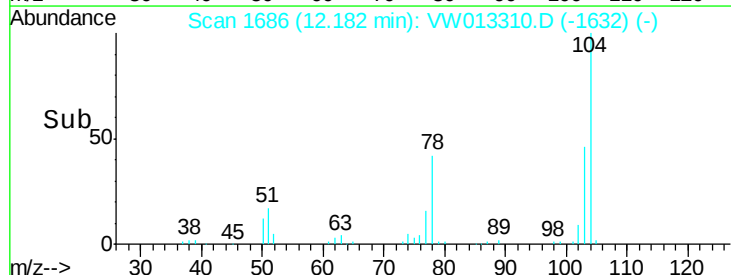
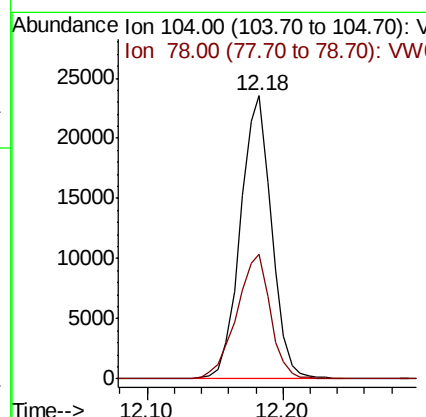
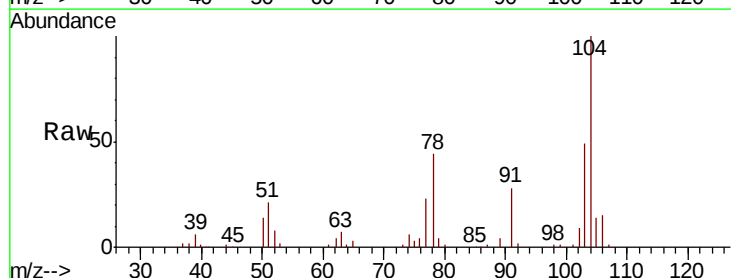
Manual Integrations
APPROVED

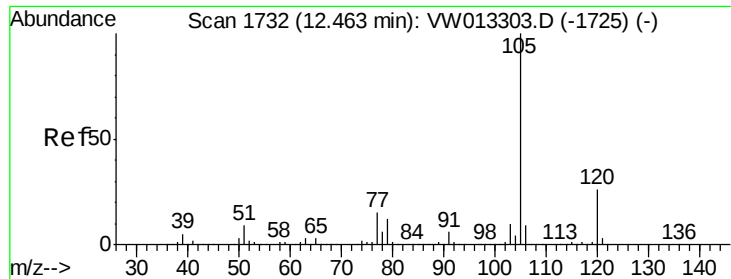
MMDadoda
10/9/2019 2:13:32 PM



#56
Styrene
Concen: 2.081 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion:104 Resp: 37598
Ion Ratio Lower Upper
104 100
78 44.2 29.8 55.4





#57

Isopropylbenzene

Concen: 2.071 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

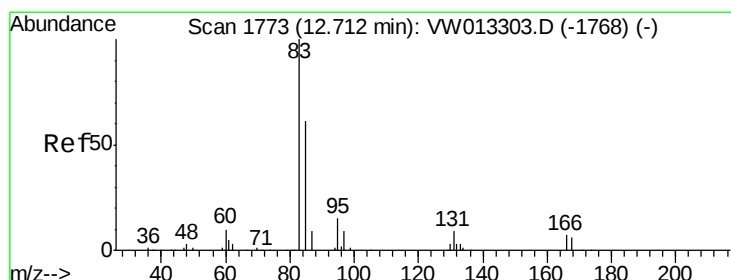
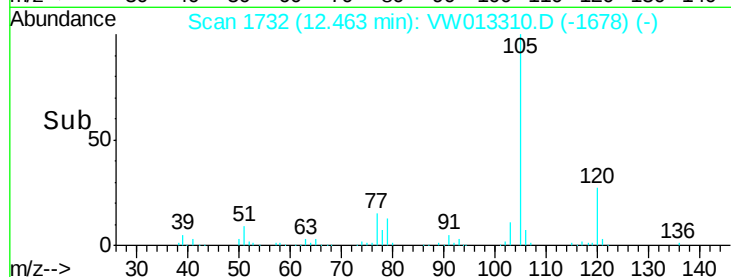
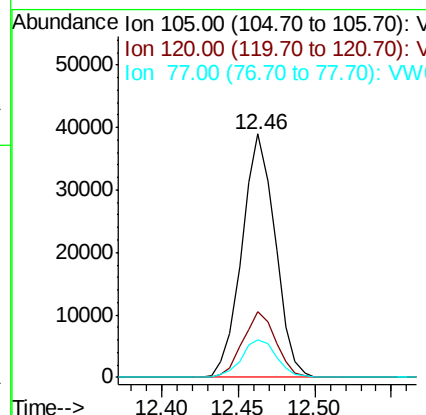
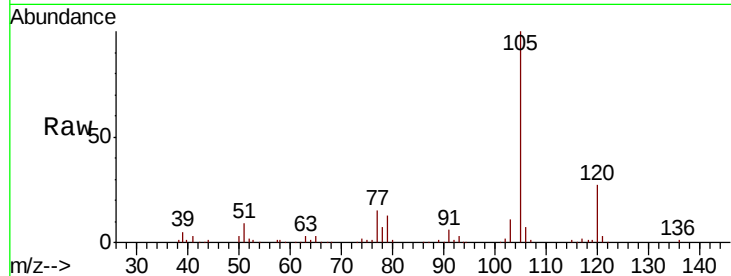
ClientSampled :

MDL06

Tot Ion:	105	Resp:	59010
Ion Ratio	Lower	Upper	
105	100		
120	26.5	21.4	32.2
77	16.1	11.8	17.6

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#58

1,1,2,2-Tetrachloroethane

Concen: 2.244 ug/L

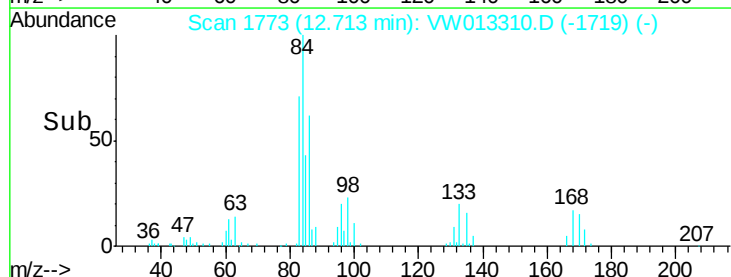
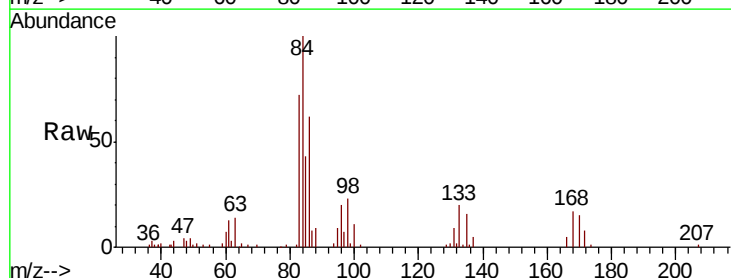
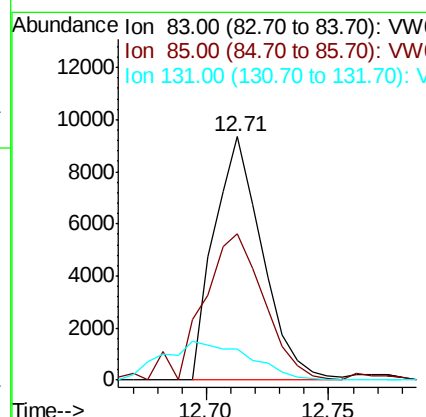
RT: 12.71 min Scan# 1773

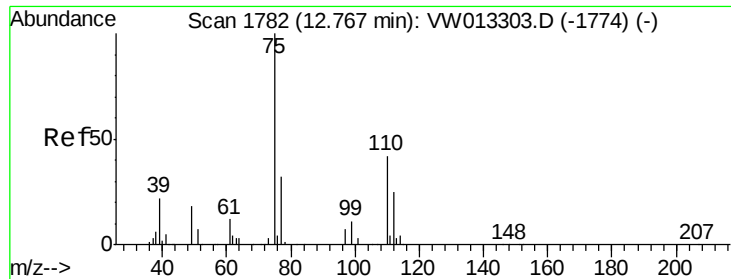
Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Tgt Ion:	83	Resp:	12842
Ion Ratio	Lower	Upper	
83	100		
85	60.1	45.2	84.0
131	12.6	8.9	13.3





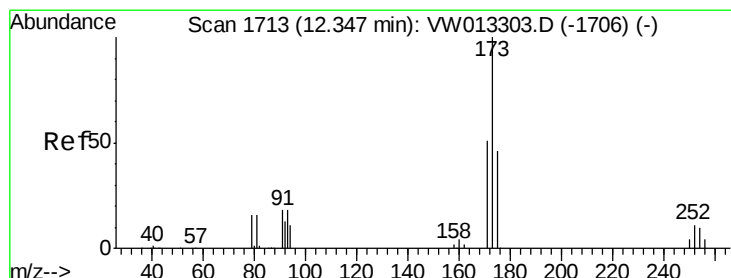
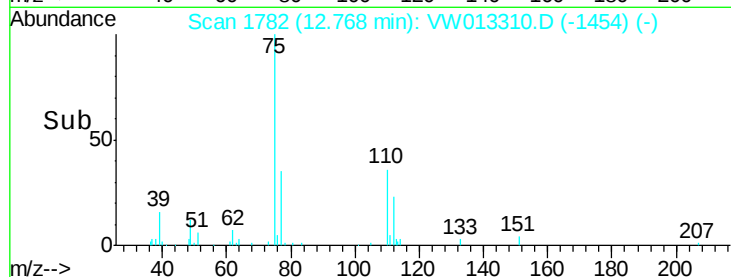
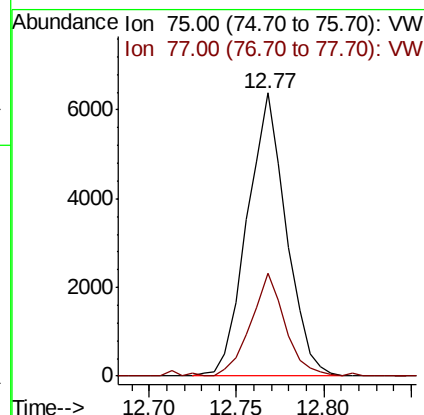
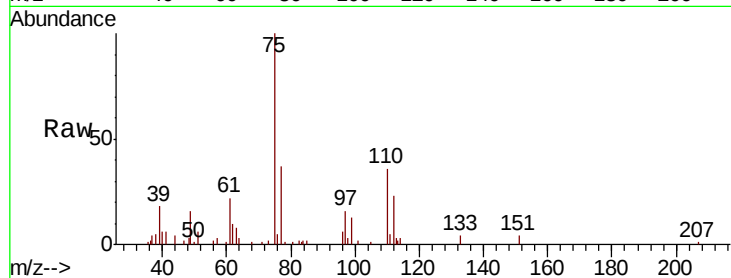
#59
 1,2,3-Trichloropropane
 Concen: 2.323 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.8	38.8

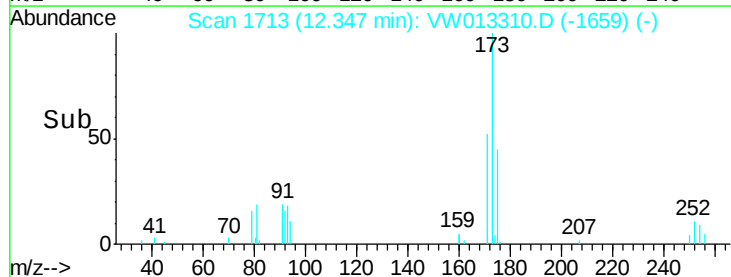
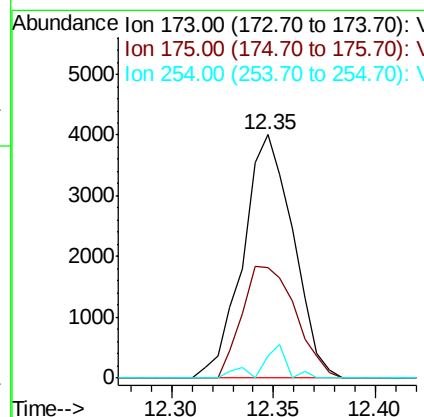
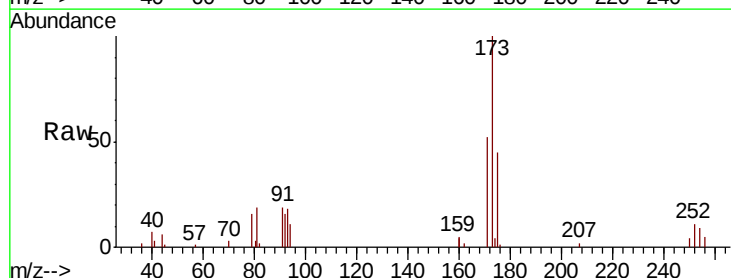
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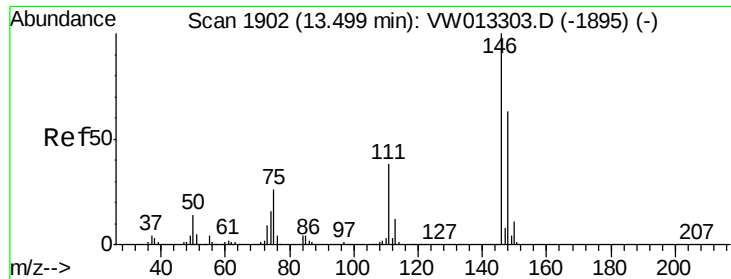
MMDadoda
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#62
 Bromoform
 Concen: 2.015 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.0	39.3	58.9
254	4.9	9.1	13.7#





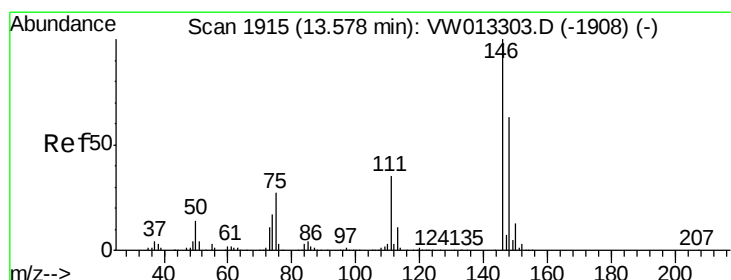
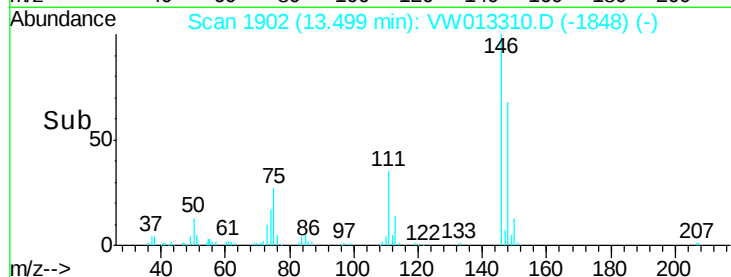
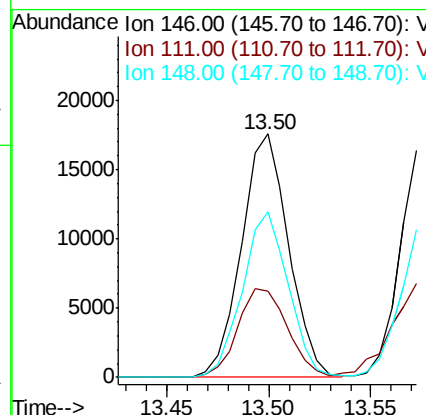
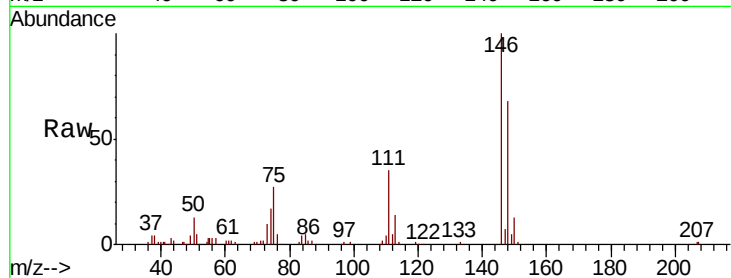
#63
 1,3-Dichlorobenzene
 Concen: 2.131 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.2	26.7	49.5
148	68.0	45.0	83.6

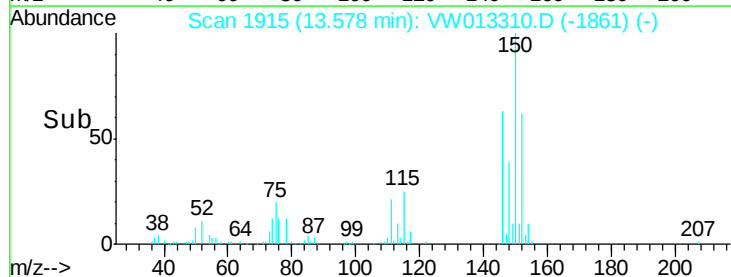
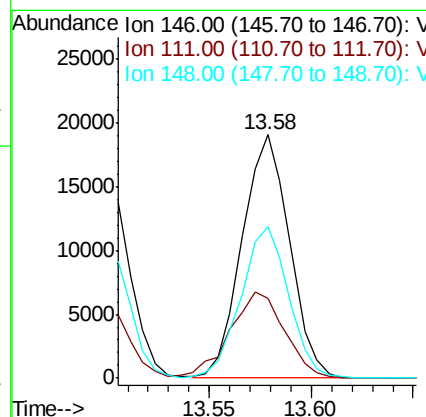
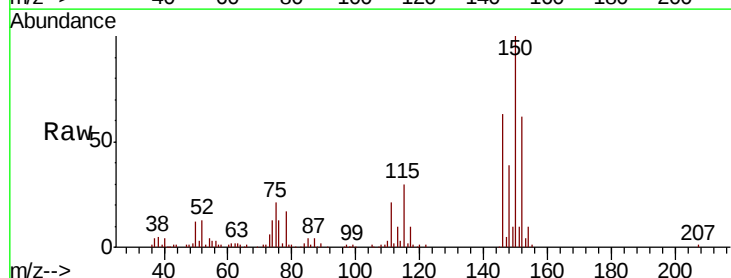
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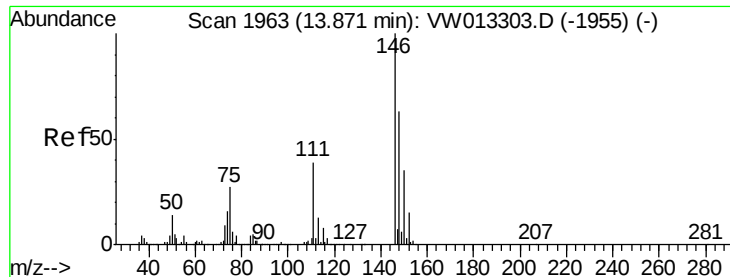
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#64
 1,4-Dichlorobenzene
 Concen: 2.306 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	32.7	24.2	45.0
148	62.0	45.1	83.7





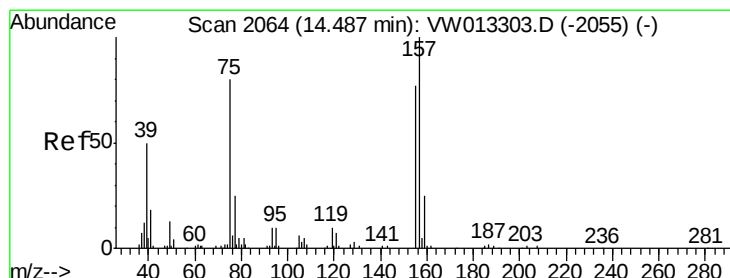
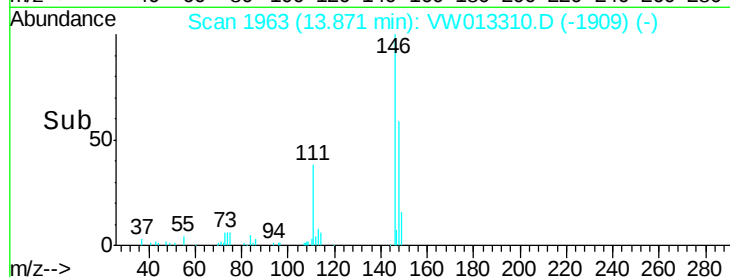
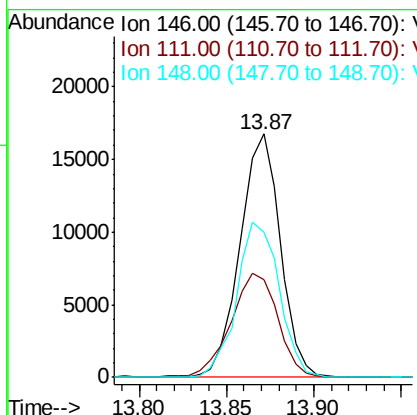
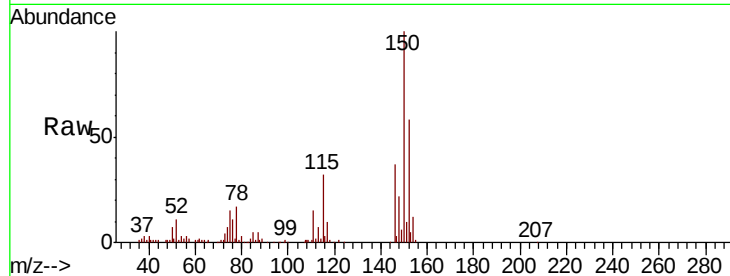
#65
 1,2-Dichlorobenzene
 Concen: 2.235 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	30.8	46.2
148	59.8	52.5	78.7

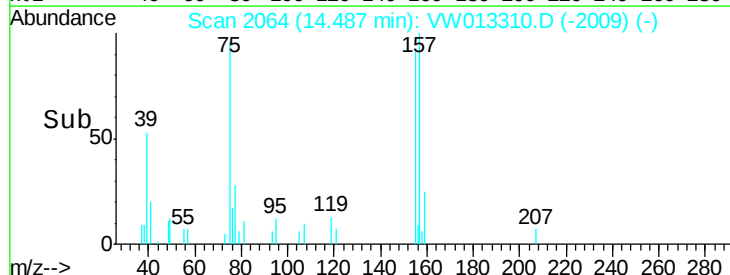
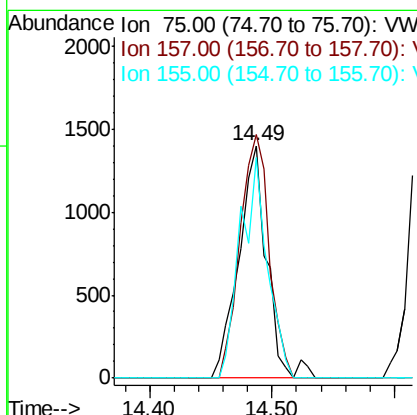
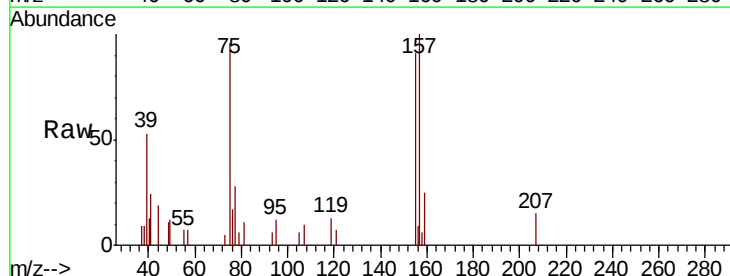
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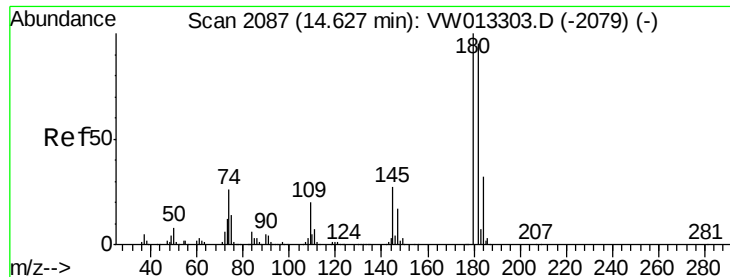
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.361 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Tgt Ion	Ratio	Lower	Upper
75	100		
157	104.7	97.8	146.8
155	95.1	78.4	117.6





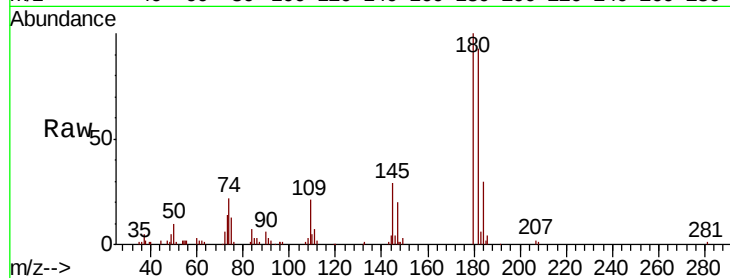
#67
 1,3,5-Trichlorobenzene
 Concen: 2.065 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Resp	Lower	Upper
180	100	21023		
182	95.4		76.4	114.6
184	32.6		23.9	35.9
145	28.5		21.7	32.5

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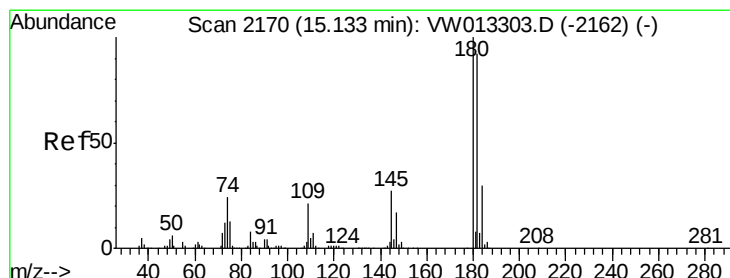
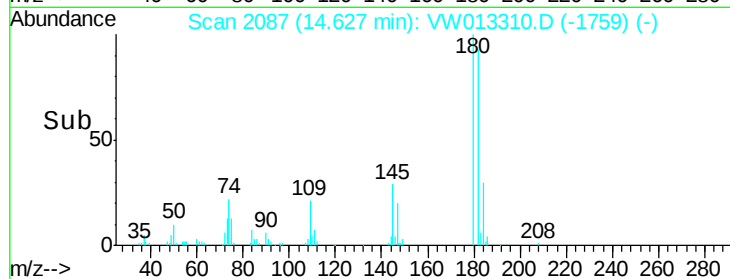
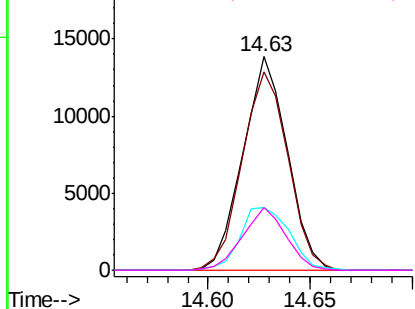
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 1.956 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

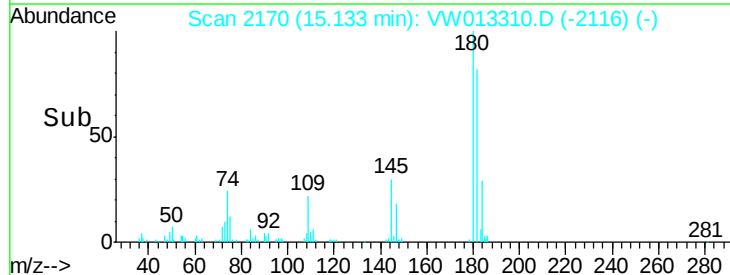
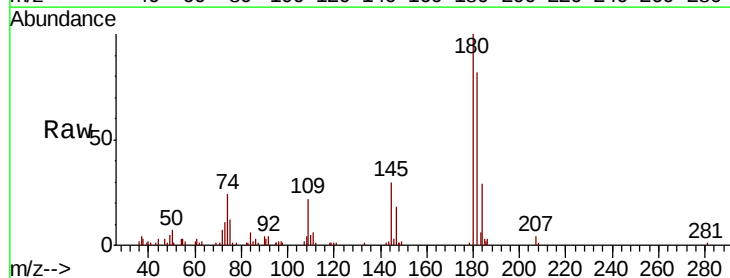
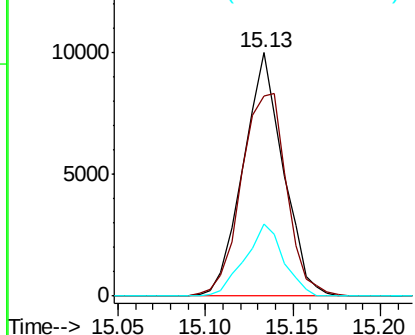
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	15896		
182	94.7		75.9	113.9
145	28.7		23.0	34.4

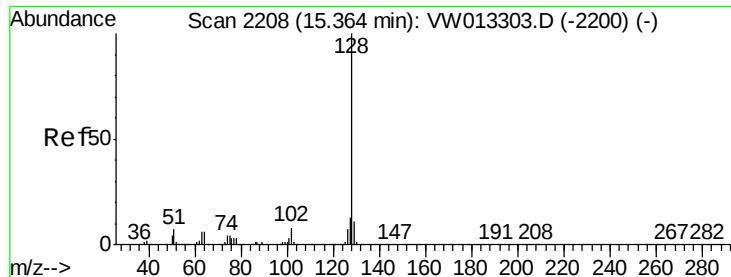
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 1.750 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

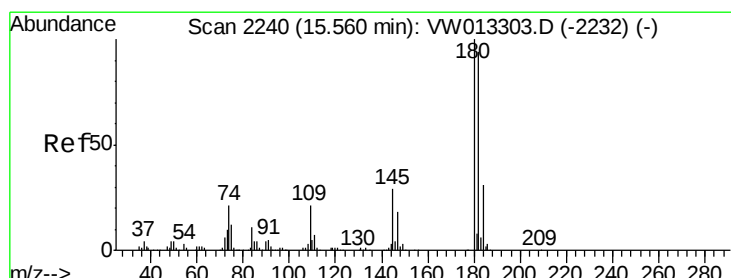
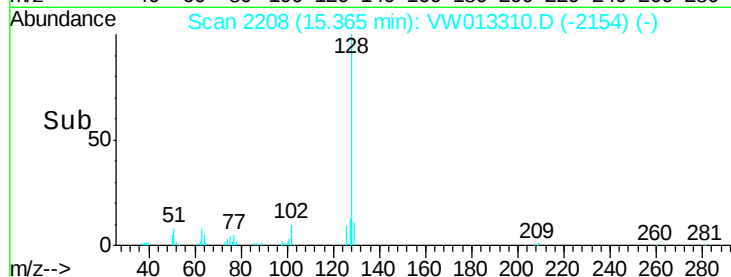
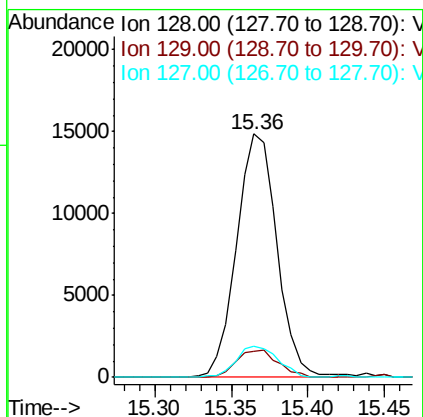
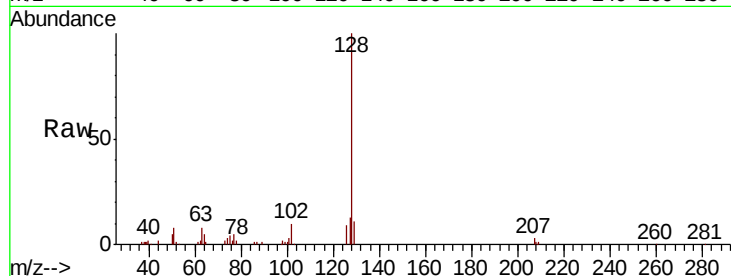
ClientSampleId :

MDL06

Tot Ion:	128	Resp:	27181
Ion Ratio	Lower	Upper	
128	100		
129	11.7	8.7	13.1
127	13.2	10.6	15.8

Manual Integrations
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#70

1,2,3-Trichlorobenzene

Concen: 2.143 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Tgt Ion:	180	Resp:	15844
Ion Ratio	Lower	Upper	
180	100		
182	87.5	78.2	117.4
145	29.1	24.1	36.1

