

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV073119\
 Data File : VV012086.D
 Acq On : 30 Jul 2019 22:42
 Operator : SY/MD
 Sample : MDL03
 Misc : 25ML/MSVOA V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMdadoda
 8/1/2019 9:58:21 AM

Quant Time: Jul 31 06:35:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR073119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 31 05:31:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	113111	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	110269	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	54670	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25360	4.77	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.40%
7) Chloroethane-d5	1.58	69	20271	4.90	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.00%
11) 1,1-Dichloroethene-d2	2.13	63	42336	3.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.40%
20) 2-Butanone-d5	3.97	46	72733	49.33	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.66%
24) Chloroform-d	4.40	84	71709	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.00%
26) 1,2-Dichloroethane-d4	5.08	65	40513	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
32) Benzene-d6	5.10	84	138336	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.20%
36) 1,2-Dichloropropane-d6	6.12	67	38408	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.36	98	128459	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
43) trans-1,3-Dichloropropene-	7.67	79	15307	4.49	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.80%
46) 2-Hexanone-d5	8.14	63	57832	49.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.30%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	27633	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	52326	5.20	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	4058	0.324	ug/L	100
3) Chloromethane	1.25	50	1888	0.315	ug/L	99
5) Vinyl chloride	1.32	62	2153	0.329	ug/L #	67
6) Bromomethane	1.54	94	1208	0.298	ug/L	85
8) Chloroethane	1.60	64	1272	0.349	ug/L	95
9) Trichlorofluoromethane	1.77	101	4047	0.319	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2051	0.379	ug/L #	87
12) 1,1-Dichloroethene	2.14	96	1851	0.373	ug/L #	1
13) Acetone	2.24	43	2313m	3.083	ug/L	
14) Carbon disulfide	2.32	76	4318	0.318	ug/L	97
15) Methyl Acetate	2.48	43	775m	0.455	ug/L	
16) Methylene chloride	2.53	84	2036	0.395	ug/L	96
17) Methyl tert-butyl Ether	2.81	73	4726	0.286	ug/L	95
18) trans-1,2-Dichloroethene	2.79	96	2510	0.340	ug/L	77
19) 1,1-Dichloroethane	3.23	63	3925	0.298	ug/L	98
21) 2-Butanone	4.06	43	4804m	3.229	ug/L	
22) cis-1,2-Dichloroethene	3.97	96	2313	0.291	ug/L	100

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Manual Integrations
 APPROVED

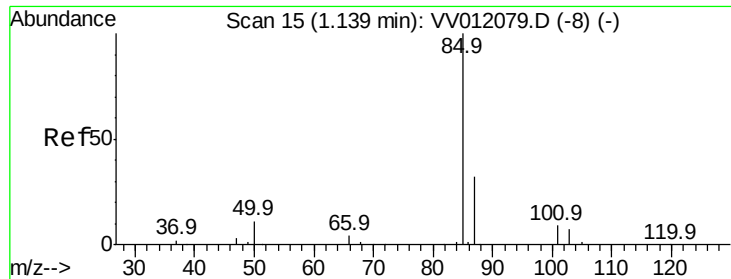
MMdadoda
 8/1/2019 9:58:21 AM

Quant Time: Jul 31 06:35:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR073119WMA.M
 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

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

23) Bromochloromethane	4.30	128	1093m	0.307	ug/L	
25) Chloroform	4.43	83	10300	0.603	ug/L	94
27) 1,2-Dichloroethane	5.19	62	3103	0.330	ug/L	97
29) 1,1,1-Trichloroethane	4.66	97	4208	0.294	ug/L	94
30) Cyclohexane	4.72	56	3142	0.288	ug/L	99
31) Carbon tetrachloride	4.88	117	3542	0.276	ug/L	97
33) Benzene	5.15	78	9280	0.317	ug/L	100
34) Trichloroethene	5.96	95	2560	0.304	ug/L	92
35) Methylcyclohexane	6.17	83	3573	0.280	ug/L	97
37) 1,2-Dichloropropane	6.22	63	2107	0.312	ug/L #	85
38) Bromodichloromethane	6.56	83	3168	0.319	ug/L #	83
39) cis-1,3-Dichloropropene	7.07	75	2971	0.282	ug/L #	81
40) 4-Methyl-2-pentanone	7.28	43	9688	2.633	ug/L #	84
42) Toluene	7.43	91	9574	0.300	ug/L	94
44) trans-1,3-Dichloropropene	7.69	75	2544	0.300	ug/L	97
45) 1,1,2-Trichloroethane	7.89	97	1562	0.310	ug/L	87
47) Tetrachloroethene	8.02	164	2060	0.269	ug/L	95
48) 2-Hexanone	8.19	43	8180	3.196	ug/L	96
49) Dibromochloromethane	8.29	129	1971	0.301	ug/L	86
50) 1,2-Dibromoethane	8.40	107	1420	0.294	ug/L #	92
51) Chlorobenzene	8.93	112	6797	0.314	ug/L	96
52) Ethylbenzene	9.05	91	10388	0.282	ug/L	93
53) m,p-xylene	9.18	106	3901	0.276	ug/L	79
54) o-xylene	9.59	106	3748	0.277	ug/L	90
55) Styrene	9.61	104	6155	0.268	ug/L	97
56) Isopropylbenzene	9.97	105	9561	0.255	ug/L #	96
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	1699	0.305	ug/L #	96
59) 1,2,3-Trichloropropane	10.32	75	1475	0.351	ug/L	96
61) Bromoform	9.78	173	1018	0.313	ug/L #	83
62) 1,3-Dichlorobenzene	11.23	146	5534	0.328	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	5997	0.349	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	5437	0.357	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	279	0.341	ug/L	89
67) 1,3,5-Trichlorobenzene	12.69	180	4788	0.347	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	3475	0.312	ug/L	96
69) Naphthalene	13.56	128	4345	0.290	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	3119	0.314	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 0.324 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 85 Resp: 4058

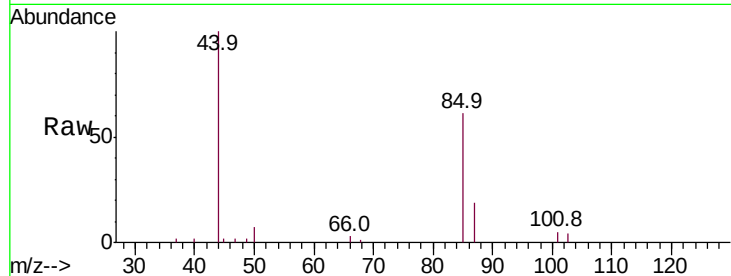
Ion Ratio Lower Upper

85 100

87 32.2 25.6 38.4

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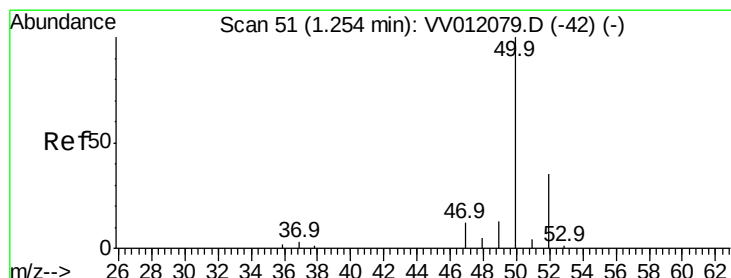
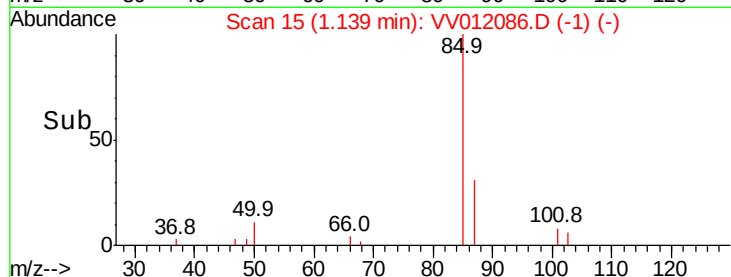


Abundance Ion 85.00 (84.70 to 85.70): VV012079.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012079.D (-8) (-)

1.14

Time-->



#3

Chloromethane

Concen: 0.315 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012086.D

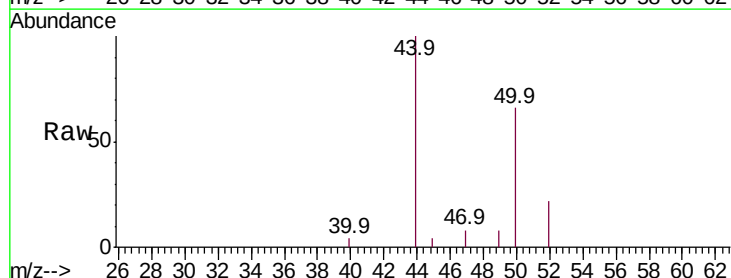
Acq: 30 Jul 2019 22:42

Tgt Ion: 50 Resp: 1888

Ion Ratio Lower Upper

50 100

52 33.0 23.7 43.9

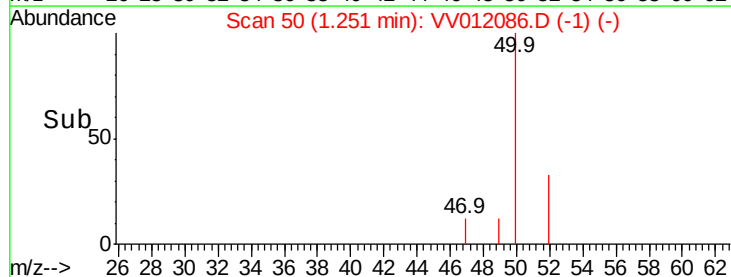


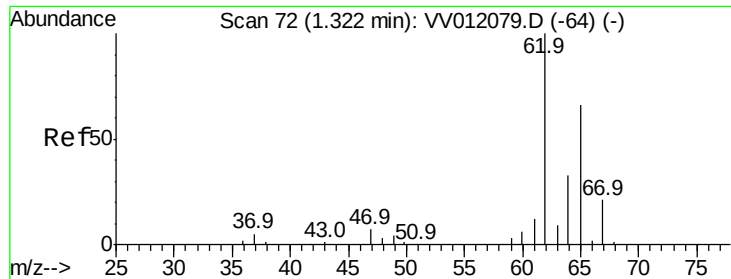
Abundance Ion 50.05 (49.75 to 50.75): VV012079.D (-42) (-)

Ion 52.05 (51.75 to 52.75): VV012079.D (-42) (-)

1.25

Time-->





#5

Vinyl chloride

Concen: 0.329 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 2153

Ion Ratio Lower Upper

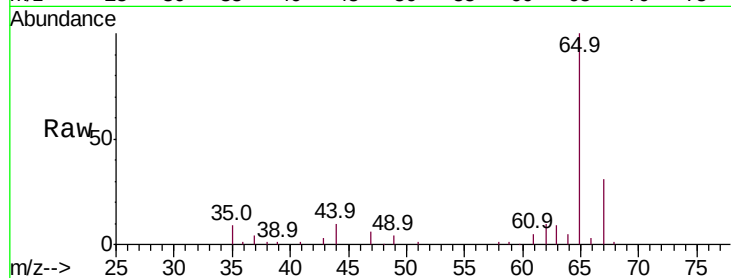
62 100

64 53.8 24.3 45.1#

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Abundance Ion 62.00 (61.70 to 62.70): VV012079.D (-64) (-)

Ion 64.10 (63.80 to 64.80): VV012086.D (-64) (-)

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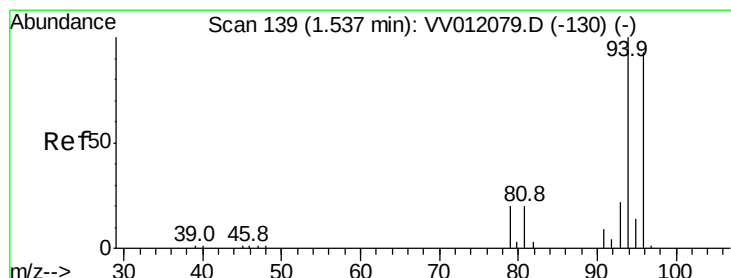
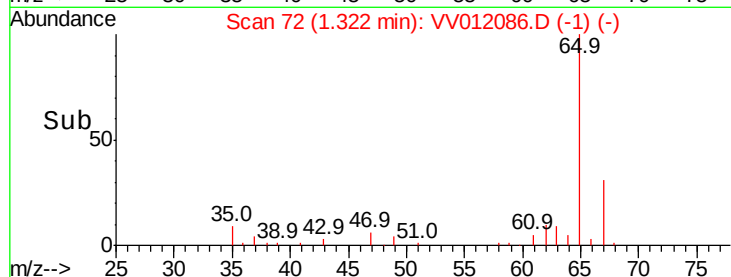
1.32

1.32

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1.32



#6

Bromomethane

Concen: 0.298 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012086.D

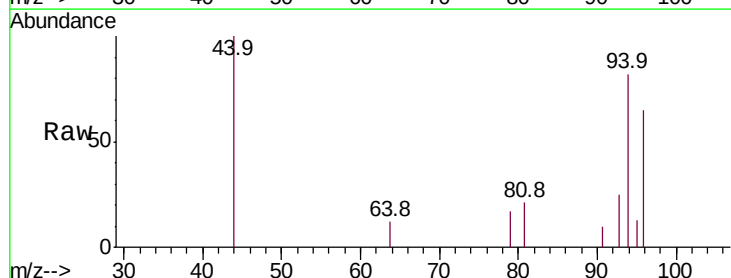
Acq: 30 Jul 2019 22:42

Tgt Ion: 94 Resp: 1208

Ion Ratio Lower Upper

94 100

96 79.0 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VV012079.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV012086.D (-130) (-)

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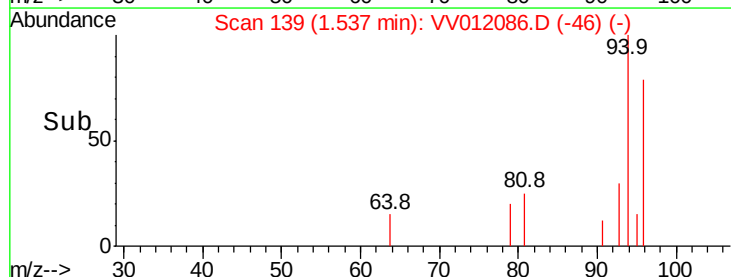
1.54

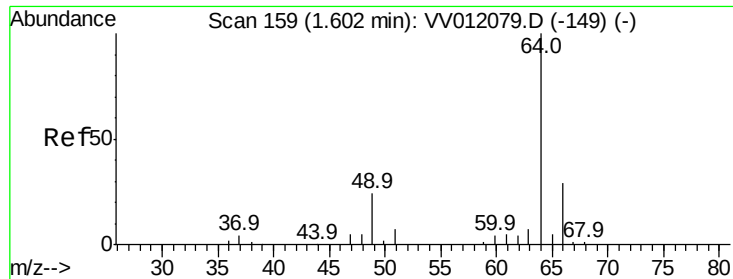
1.54

1.54

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1.54





#8

Chloroethane

Concen: 0.349 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 64 Resp: 1272

Ion Ratio Lower Upper

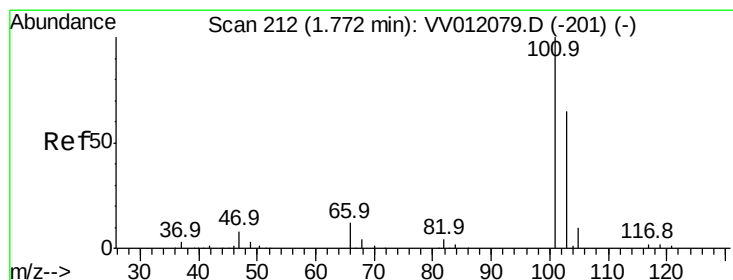
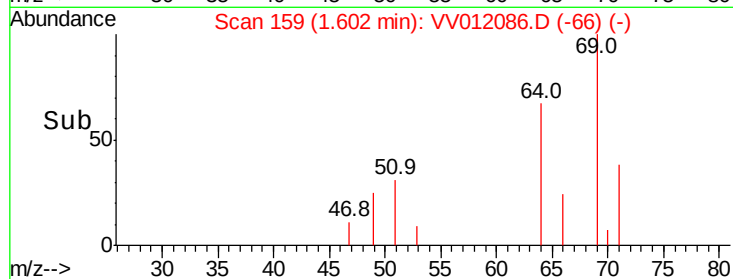
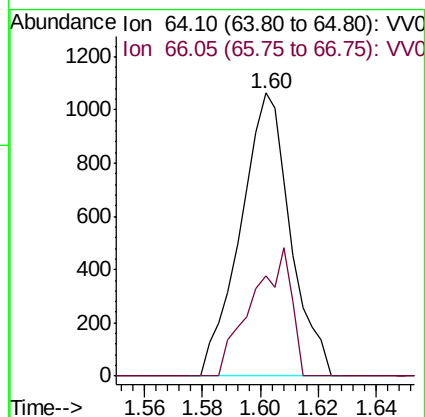
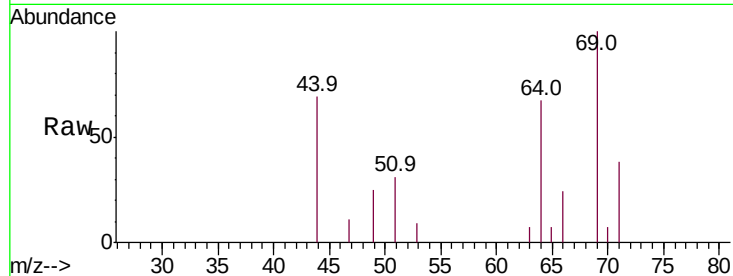
64 100

66 35.7 23.1 42.9

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#9

Trichlorofluoromethane

Concen: 0.319 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV012086.D

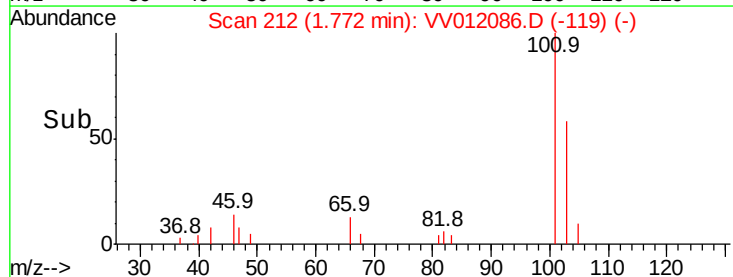
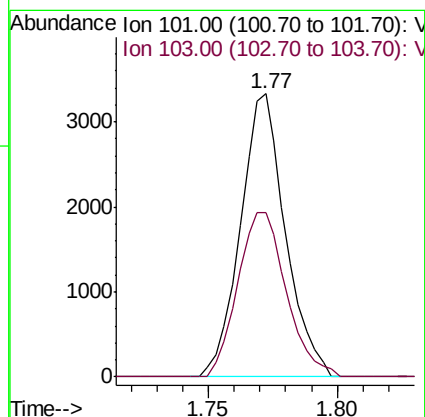
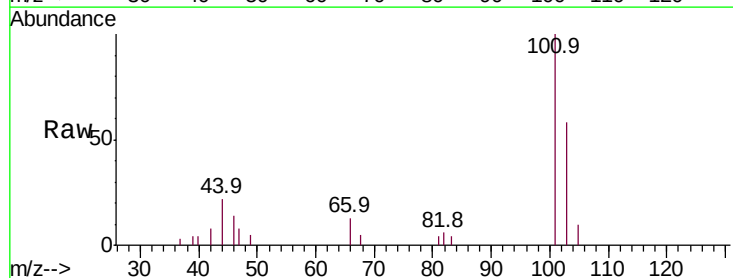
Acq: 30 Jul 2019 22:42

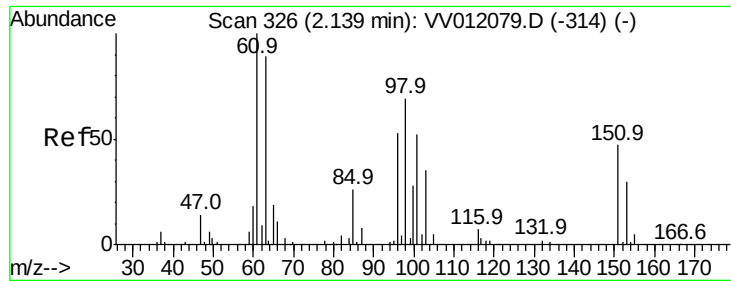
Tgt Ion: 101 Resp: 4047

Ion Ratio Lower Upper

101 100

103 62.8 51.3 76.9





#10

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

Concen: 0.379 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

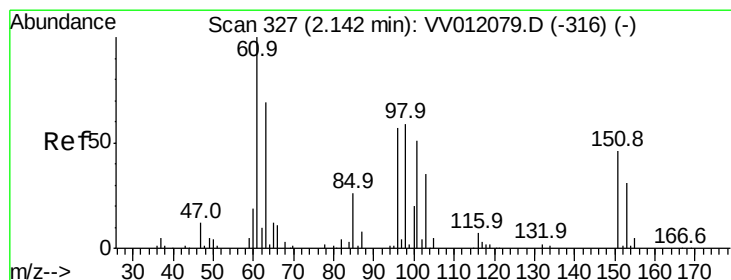
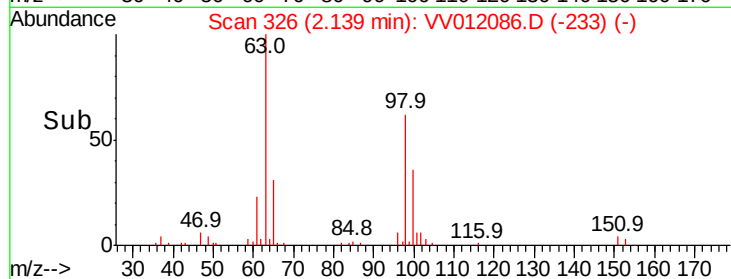
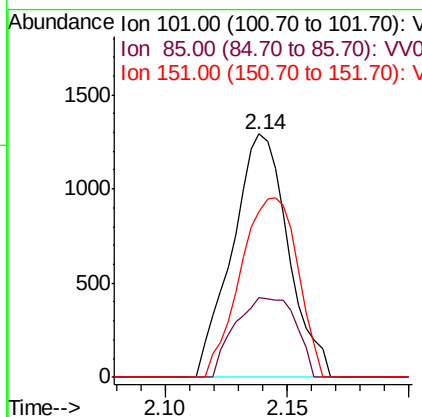
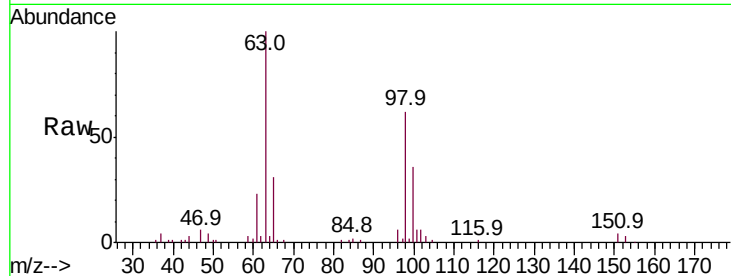
ClientSampleId :

MDL03

Tot Ion:	101	Resp:	2051
Ion Ratio	Lower	Upper	
101	100		
85	35.6	37.4	56.2#
151	75.9	69.1	103.7

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#12

1,1-Dichloroethene

Concen: 0.373 ug/L

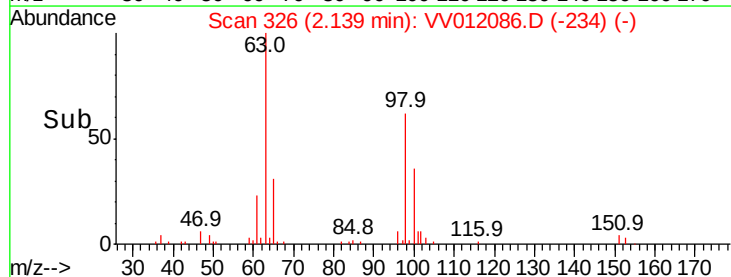
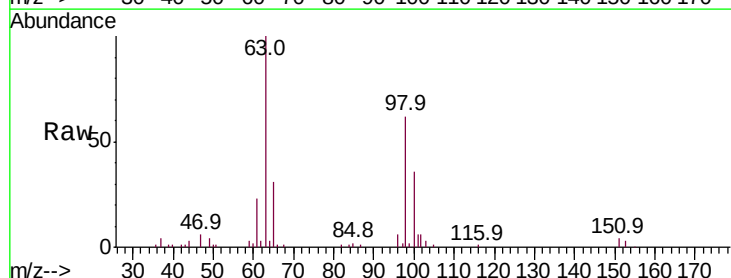
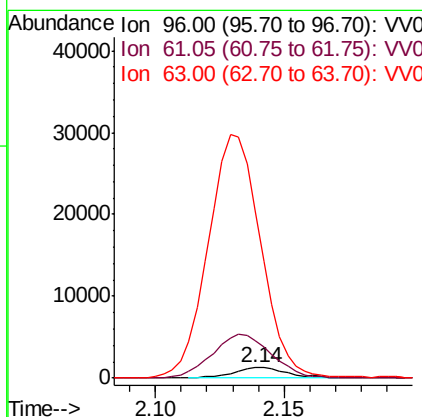
RT: 2.14 min Scan# 326

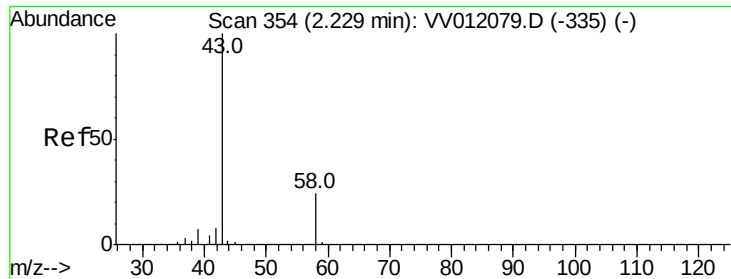
Delta R.T. -0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Tgt Ion:	96	Resp:	1851
Ion Ratio	Lower	Upper	
96	100		
61	376.5	126.9	235.7#
63	1658.2	87.6	162.8#





#13

Acetone

Concen: 3.083 ug/L m

RT: 2.24 min Scan# 356

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 43 Resp: 2313

Ion Ratio Lower Upper

43 100

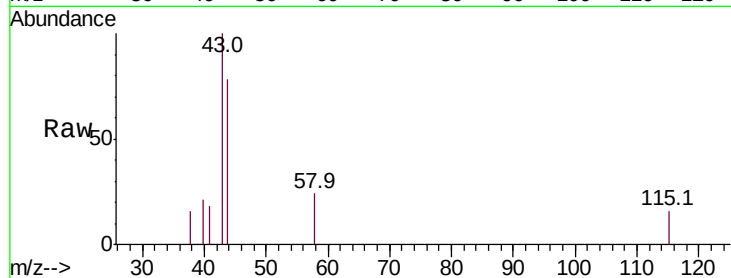
58 10.3 0.0 51.0

Manual Integrations

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8/1/2019 9:58:21 AM



Abundance Ion 43.05 (42.75 to 43.75): VV012079.D (-335) (-)

Ion 58.05 (57.75 to 58.75): VV012079.D (-335) (-)

2.24

2.25

2.30

2.35

2.40

2.45

2.50

2.55

2.60

2.65

2.70

2.75

2.80

2.85

2.90

2.95

3.00

3.05

3.10

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3.20

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7.65

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7.75

7.80

7.85

7.90

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8.35

8.40

8.45

8.50

8.55

8.60

8.65

8.70

8.75

8.80

8.85

8.90

8.95

9.00

9.05

9.10

9.15

9.20

9.25

9.30

9.35

9.40

9.45

9.50

9.55

9.60

9.65

9.70

9.75

9.80

9.85

9.90

9.95

10.00

10.05

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

12.30

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

12.80

12.85

12.90

12.95

13.00

13.05

13.10

13.15

13.20

13.25

13.30

13.35

13.40

13.45

13.50

13.55

13.60

13.65

13.70

13.75

13.80

13.85

13.90

13.95

14.00

14.05

14.10

14.15

14.20

14.25

14.30

14.35

14.40

14.45

14.50

14.55

14.60

14.65

14.70

14.75

14.80

14.85

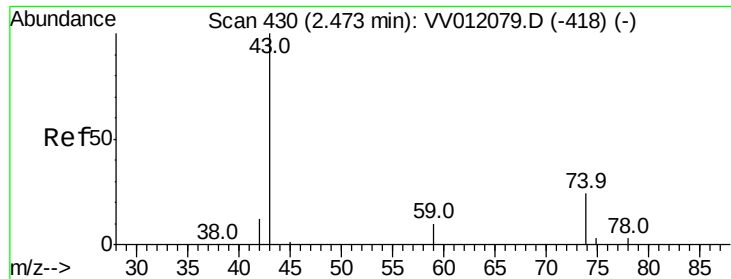
14.90

14.95

15.00

15.05

15.10



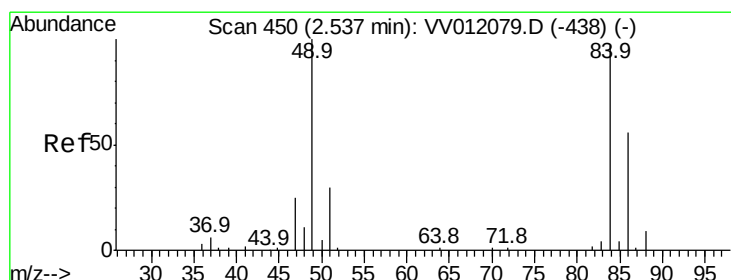
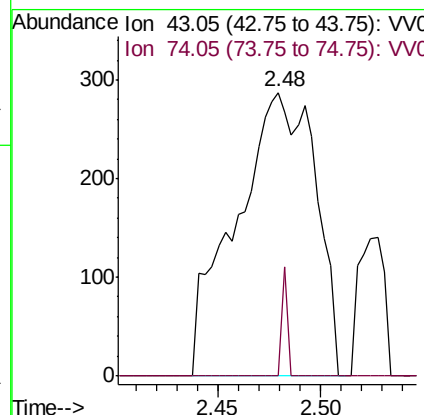
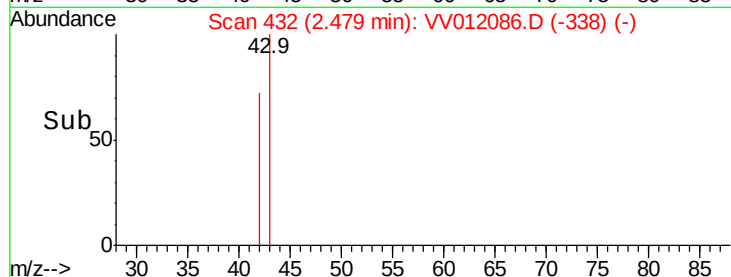
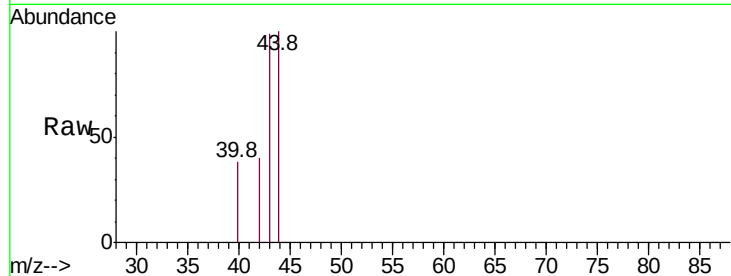
#15
Methyl Acetate
Concen: 0.455 ug/L m
RT: 2.48 min Scan# 432
Delta R.T. 0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion: 43 Resp: 775
Ion Ratio Lower Upper
43 100
74 2.7 23.4 35.0#

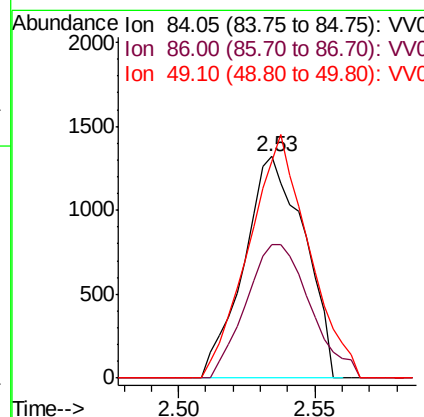
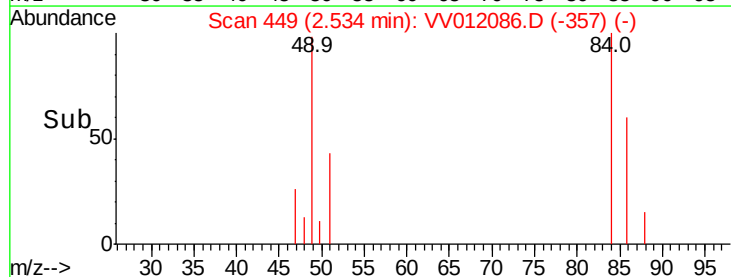
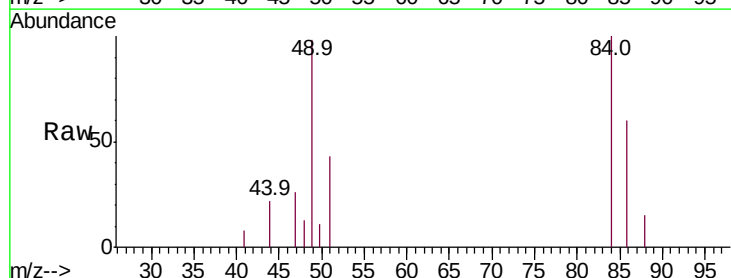
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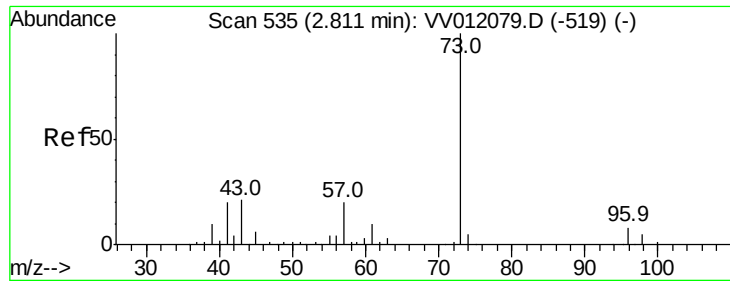
MMdadoda
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#16
Methylene chloride
Concen: 0.395 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Tgt Ion: 84 Resp: 2036
Ion Ratio Lower Upper
84 100
86 60.5 45.0 83.6
49 109.4 74.4 138.2





#17

Methyl tert-butyl Ether

Concen: 0.286 ug/L

RT: 2.81 min Scan# 536

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

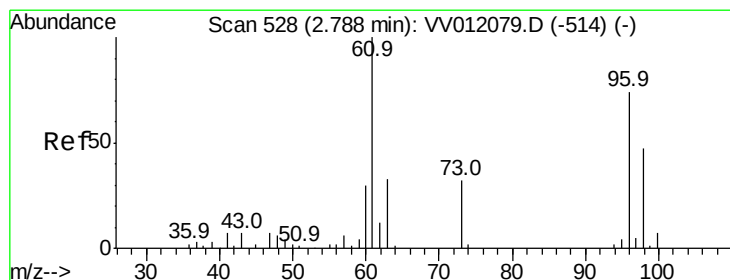
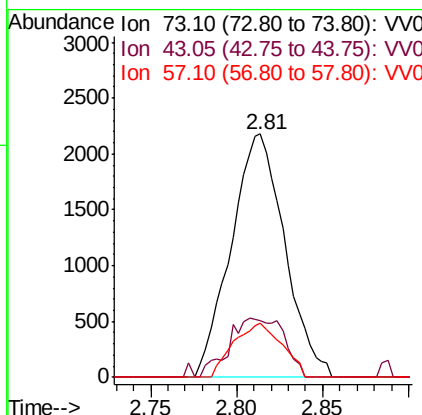
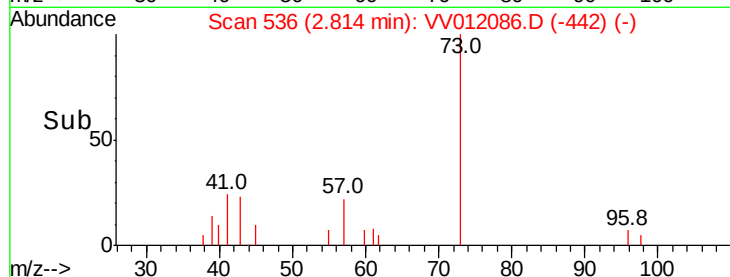
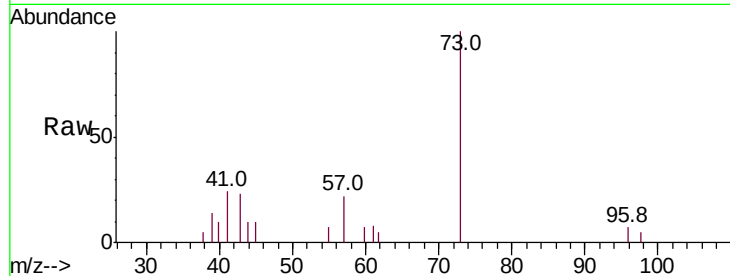
Instrument :
MSVOA_V

ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
73	100		
43	25.1	17.2	25.8
57	20.1	15.1	22.7

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#18

trans-1,2-Dichloroethene

Concen: 0.340 ug/L

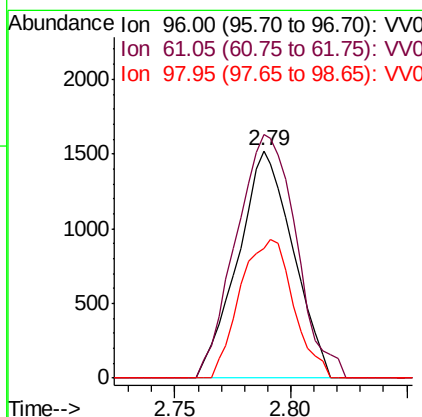
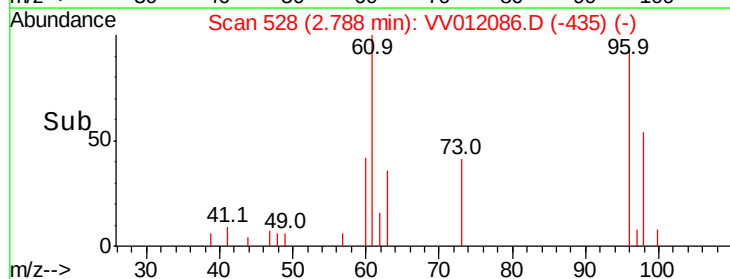
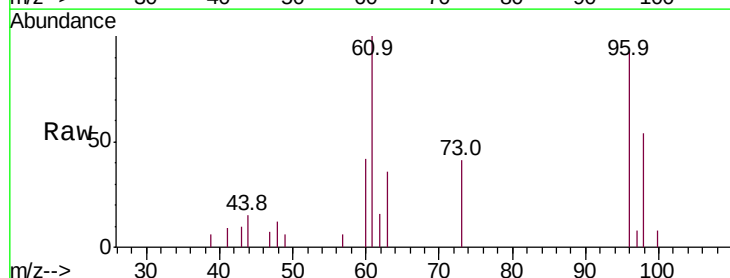
RT: 2.79 min Scan# 528

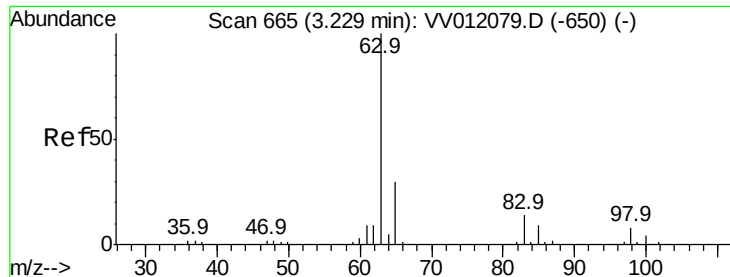
Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	107.2	99.0	184.0
98	57.4	47.9	88.9





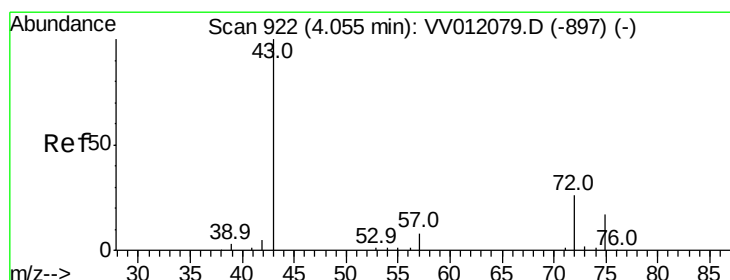
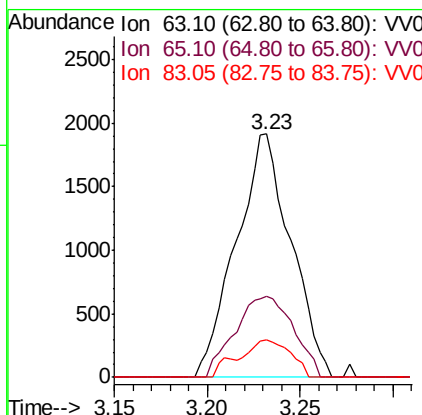
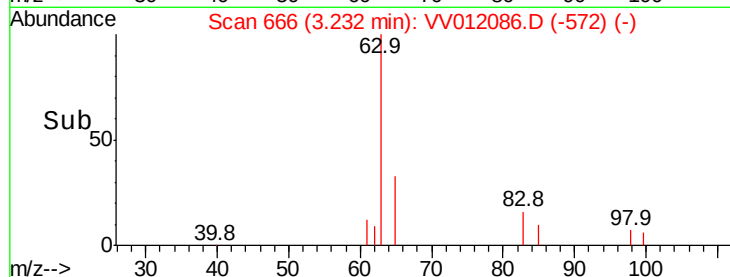
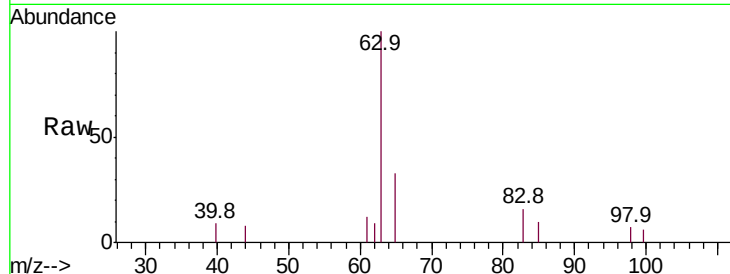
#19
 1,1-Dichloroethane
 Concen: 0.298 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion:	63	Resp:	3925
Ion	Ratio	Lower	Upper
63	100		
65	33.1	22.3	41.3
83	15.6	10.4	19.2

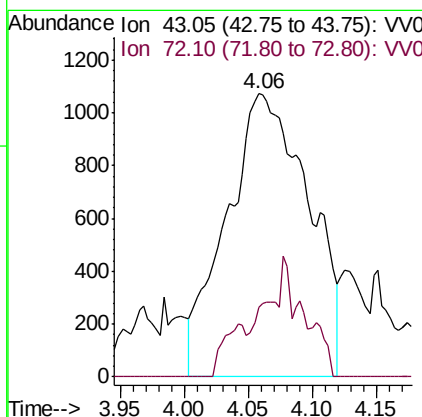
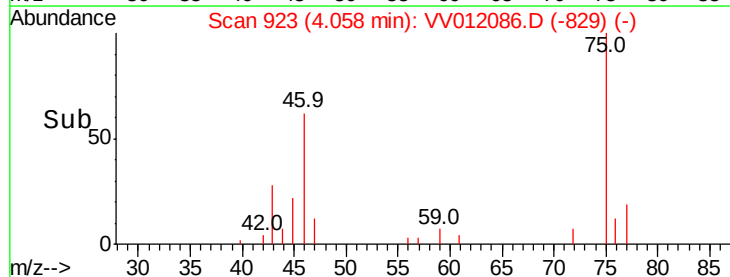
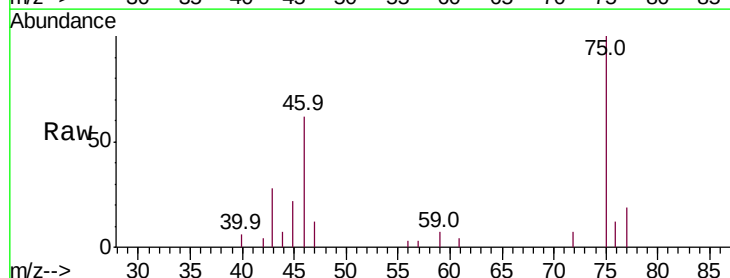
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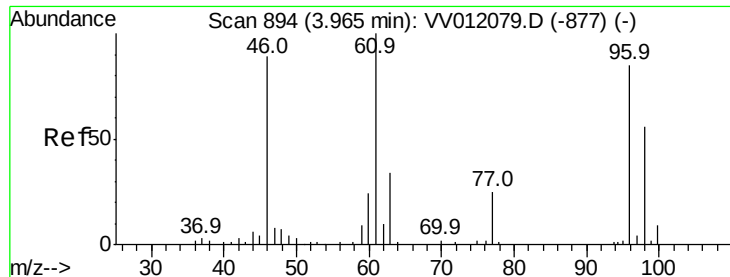
MMdadoda
 8/1/2019 9:58:21 AM



#21
 2-Butanone
 Concen: 3.229 ug/L m
 RT: 4.06 min Scan# 923
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Tgt Ion:	43	Resp:	4804
Ion	Ratio	Lower	Upper
43	100		
72	4.5	14.0	42.0#





#22

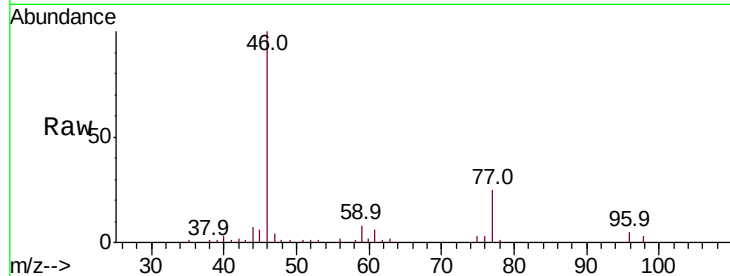
cis-1,2-Dichloroethene
 Concen: 0.291 ug/L
 RT: 3.97 min Scan# 896
 Delta R.T. 0.01 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	116.0	81.5	151.5
68	0.0	0.0	0.0

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MMDadoda
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Abundance

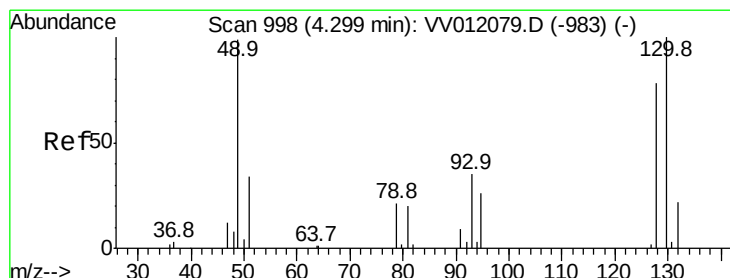
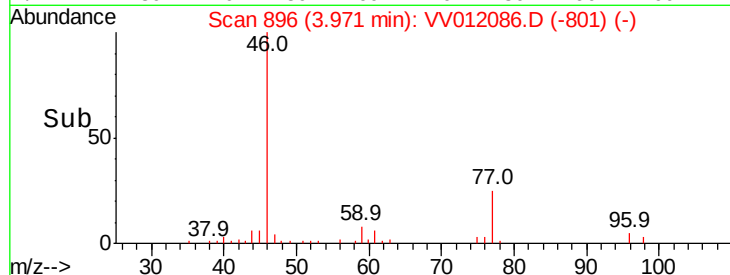
Ion 96.00 (95.70 to 96.70): VV012079.D (-877) (-)

Ion 61.05 (60.75 to 61.75): VV012079.D (-877) (-)

Ion 68.15 (67.85 to 68.85): VV012079.D (-877) (-)

3.97

Time-->



#23

Bromochloromethane
 Concen: 0.307 ug/L m
 RT: 4.30 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Tgt Ion	Ratio	Lower	Upper
128	100		
49	117.3	97.9	181.7
130	104.8	90.9	168.9
51	25.1	34.6	51.8#

Abundance

Ion 127.90 (127.60 to 128.60): VV012079.D (-983) (-)

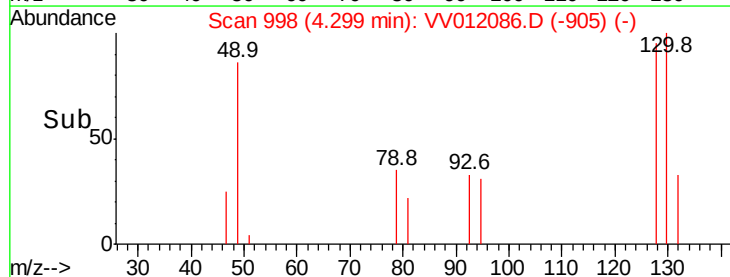
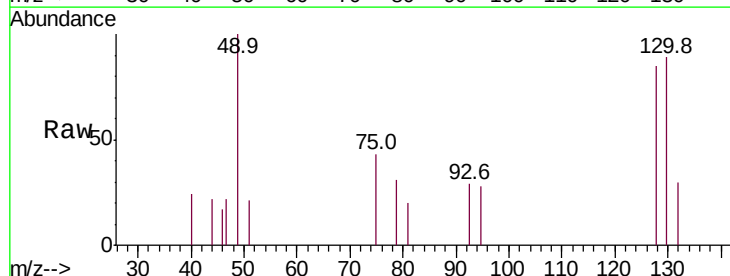
Ion 49.10 (48.80 to 49.80): VV012079.D (-983) (-)

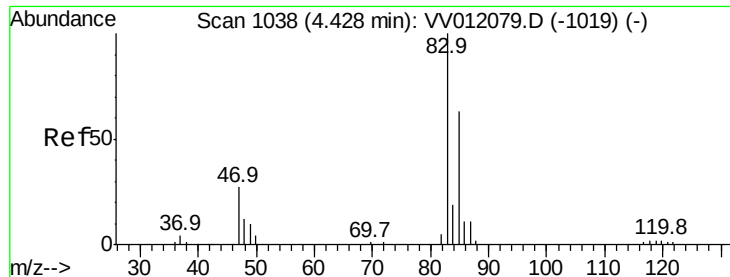
Ion 129.95 (129.65 to 130.65): VV012079.D (-983) (-)

Ion 51.05 (50.75 to 51.75): VV012079.D (-983) (-)

4.30

Time-->





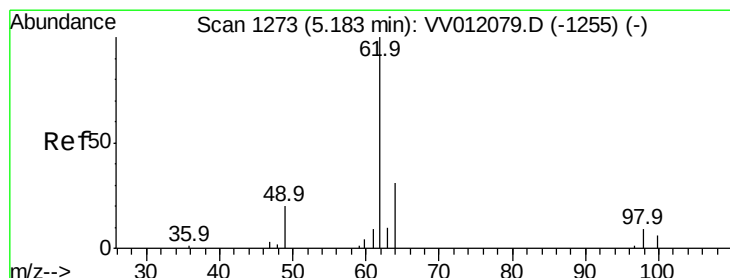
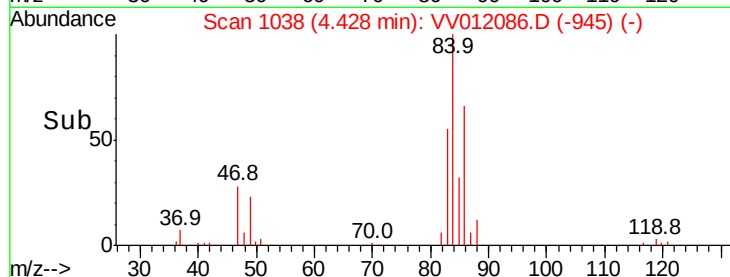
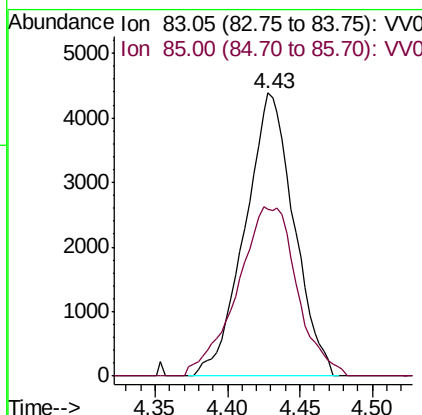
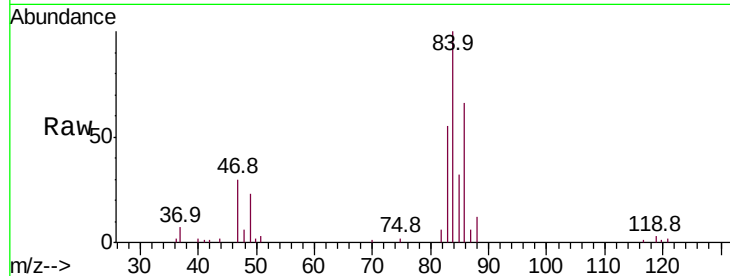
#25
Chloroform
Concen: 0.603 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion: 83 Resp: 10300
Ion Ratio Lower Upper
83 100
85 59.1 44.7 83.1

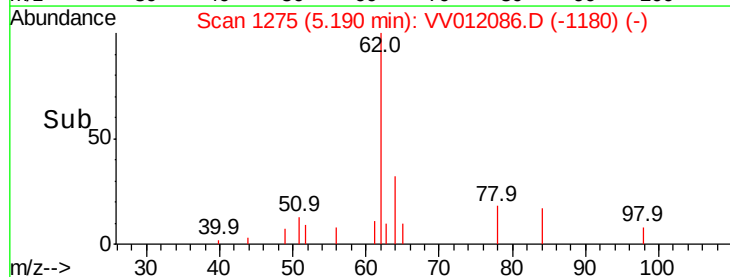
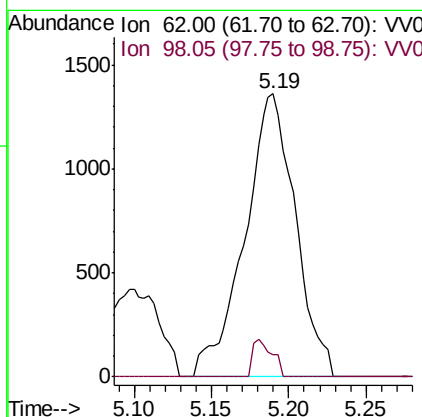
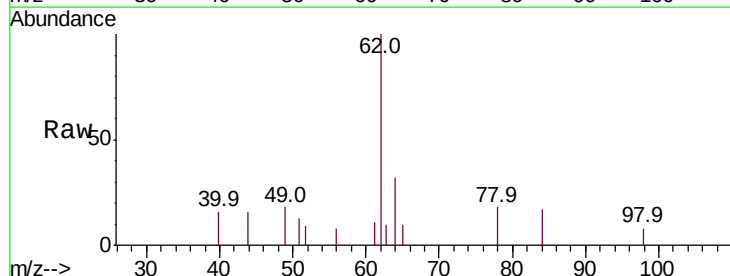
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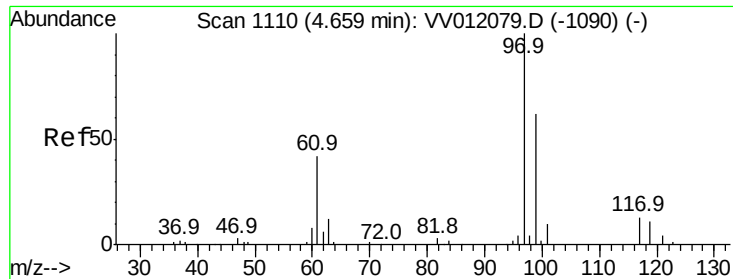
MMdadoda
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#27
1,2-Dichloroethane
Concen: 0.330 ug/L
RT: 5.19 min Scan# 1275
Delta R.T. 0.01 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Tgt Ion: 62 Resp: 3103
Ion Ratio Lower Upper
62 100
98 7.9 7.3 10.9





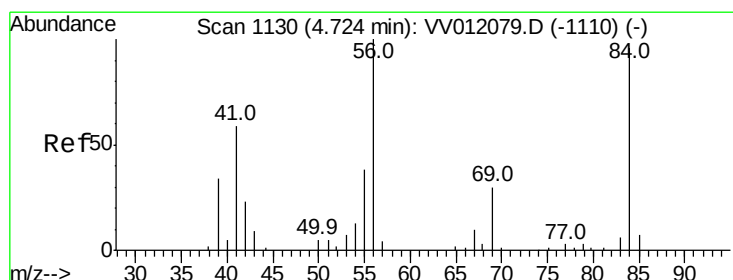
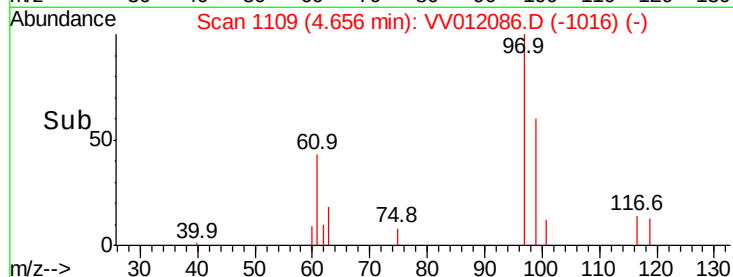
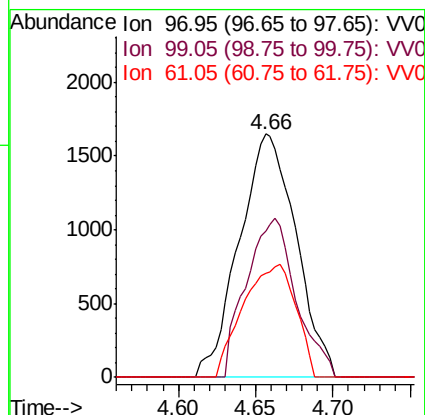
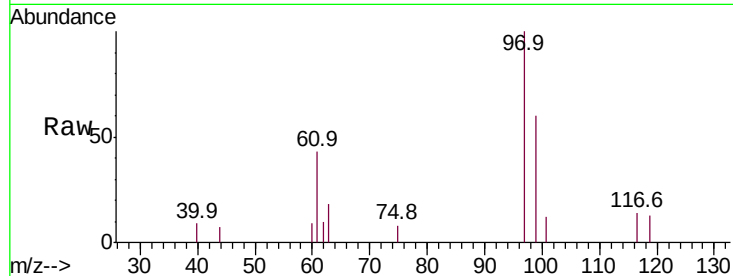
#29
1,1,1-Trichloroethane
Concen: 0.294 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
97	100		
99	57.2	51.7	77.5
61	43.1	34.2	51.2

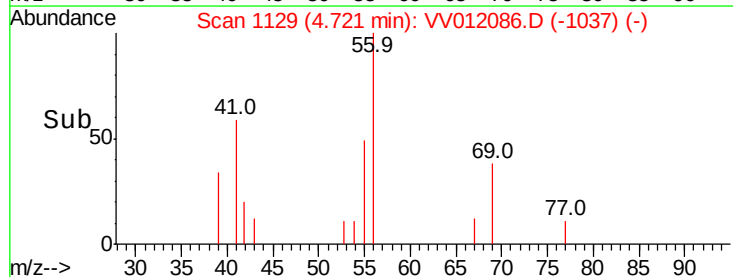
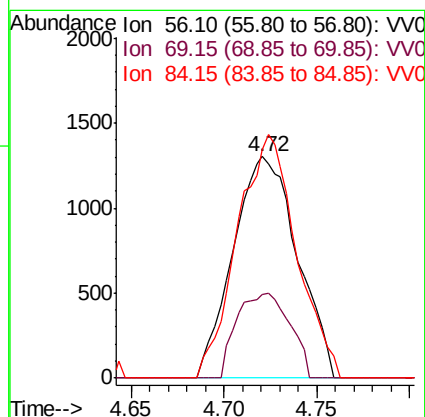
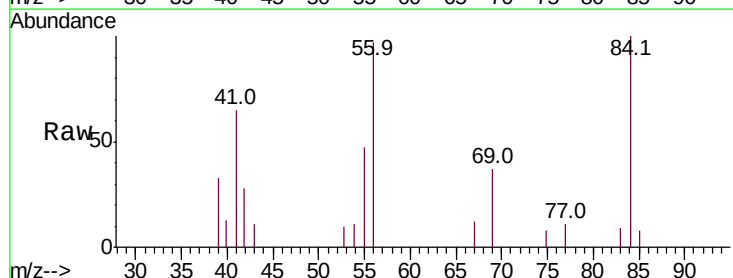
Manual Integrations
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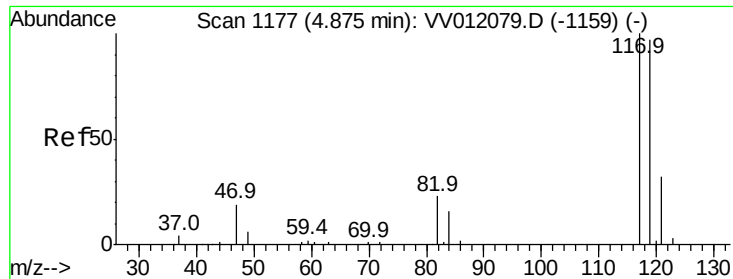
MMdadoda
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#30
Cyclohexane
Concen: 0.288 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.6	26.0	39.0
84	101.3	79.9	119.9





#31

Carbon tetrachloride

Concen: 0.276 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion:117 Resp: 3542

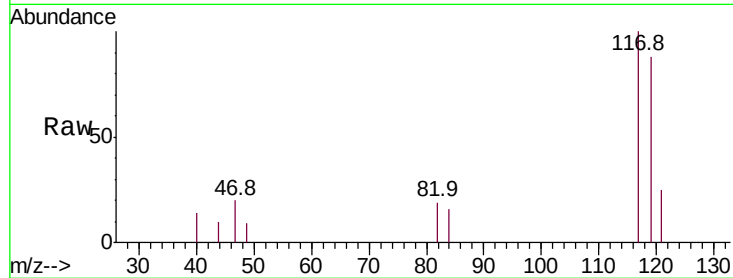
Ion Ratio Lower Upper

117 100

119 99.7 77.7 116.5

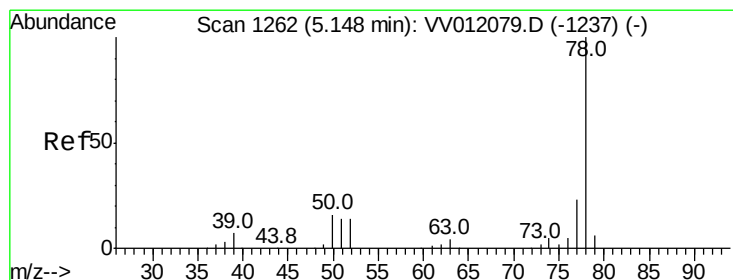
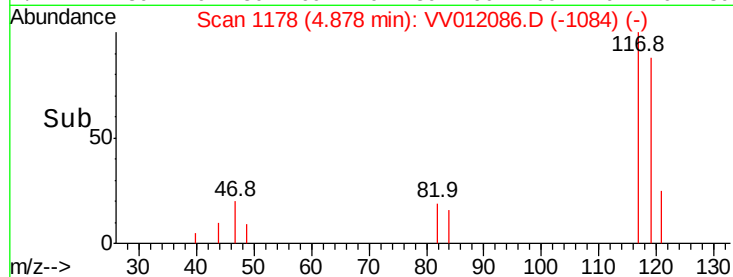
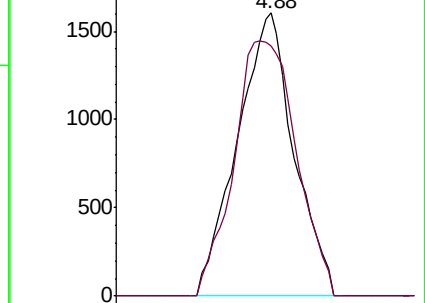
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.317 ug/L

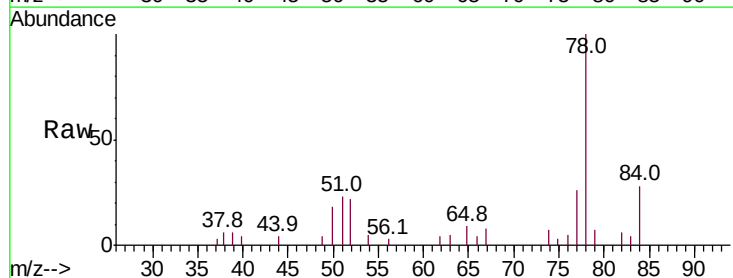
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

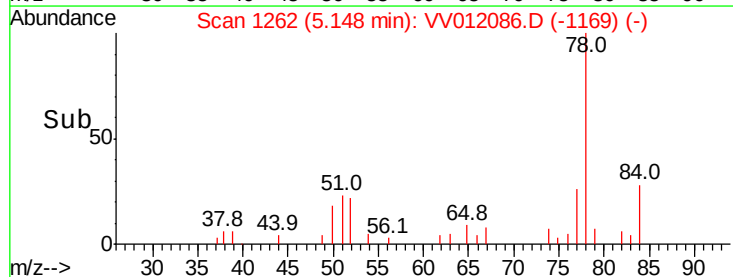
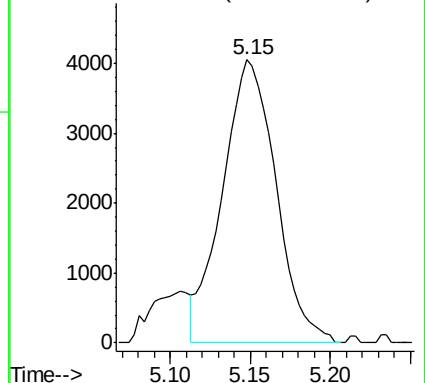
Lab File: VV012086.D

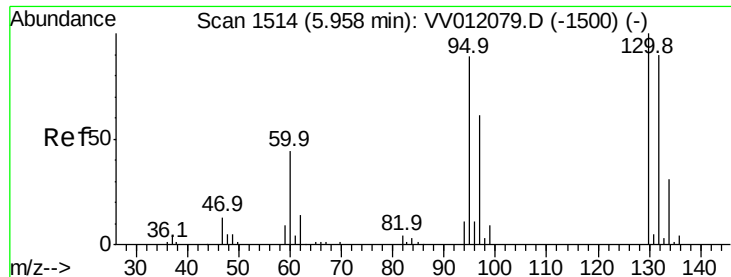
Acq: 30 Jul 2019 22:42

Tgt Ion: 78 Resp: 9280



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 0.304 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.01 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 95 Resp: 2560

Ion Ratio Lower Upper

95 100

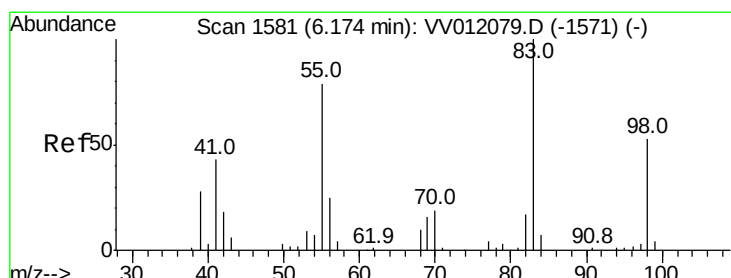
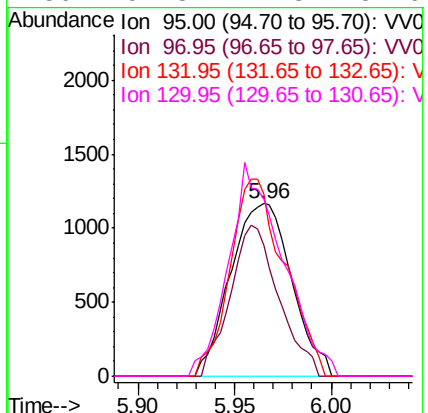
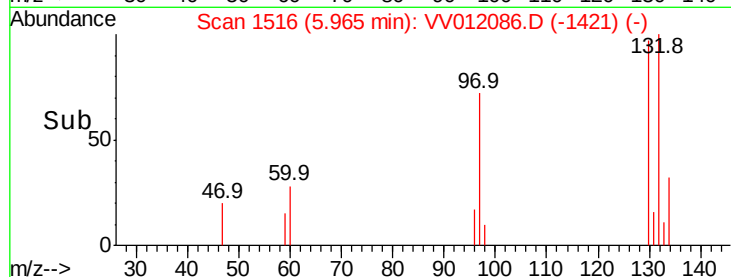
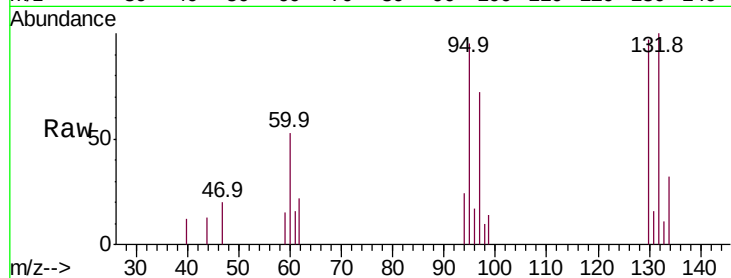
97 75.8 45.4 84.2

132 105.5 67.0 124.4

130 102.3 74.3 137.9

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#35

Methylcyclohexane

Concen: 0.280 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

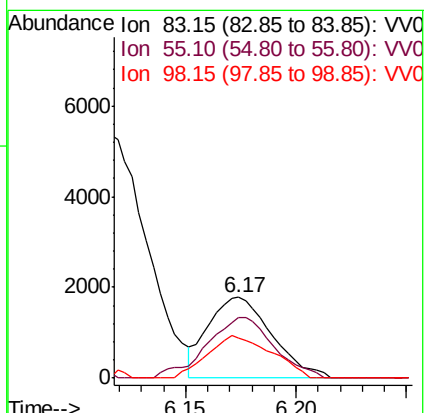
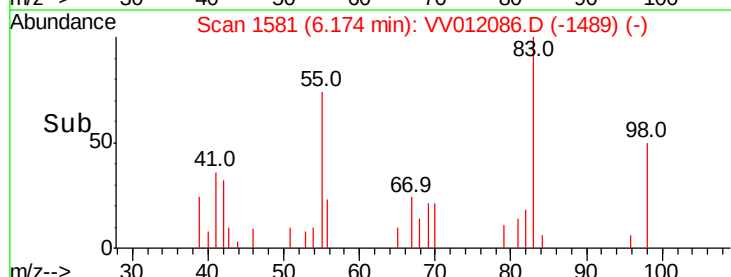
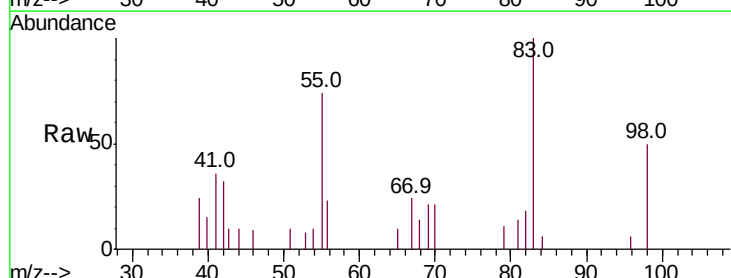
Tgt Ion: 83 Resp: 3573

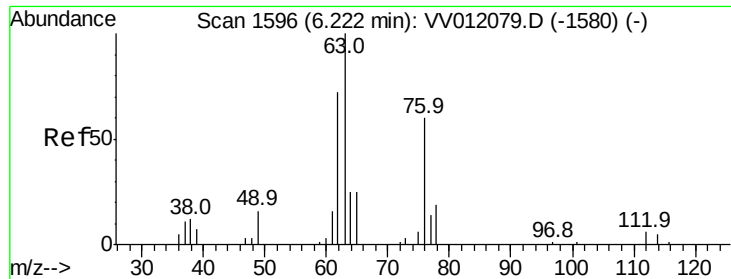
Ion Ratio Lower Upper

83 100

55 78.5 59.9 89.9

98 52.3 40.8 61.2





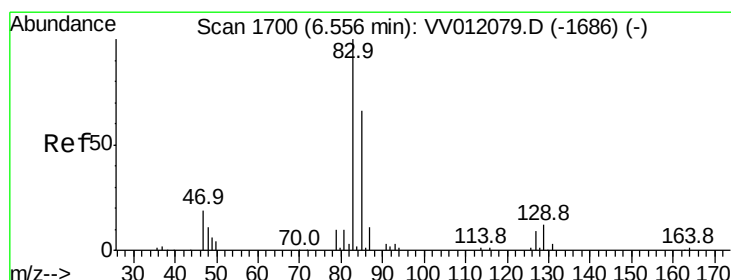
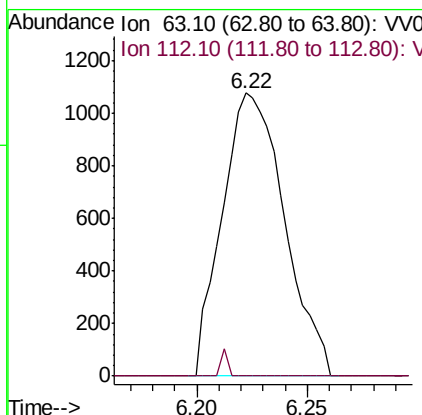
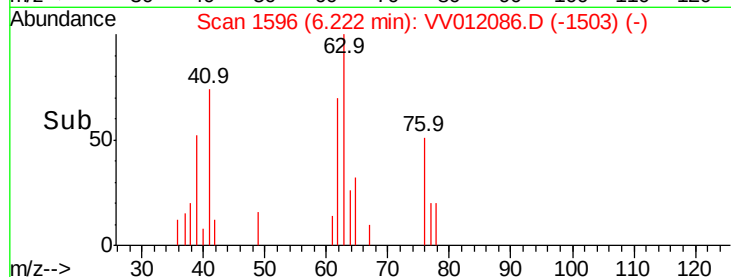
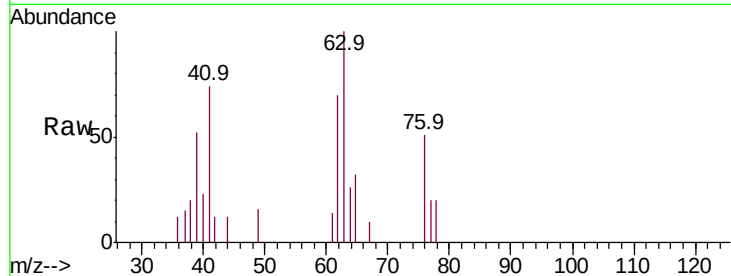
#37
 1,2-Dichloropropane
 Concen: 0.312 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion: 63 Resp: 2107
 Ion Ratio Lower Upper
 63 100
 112 0.9 4.7 7.1#

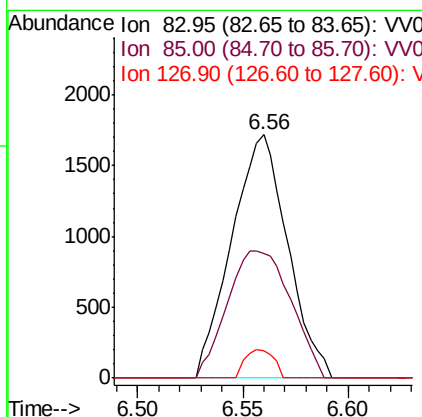
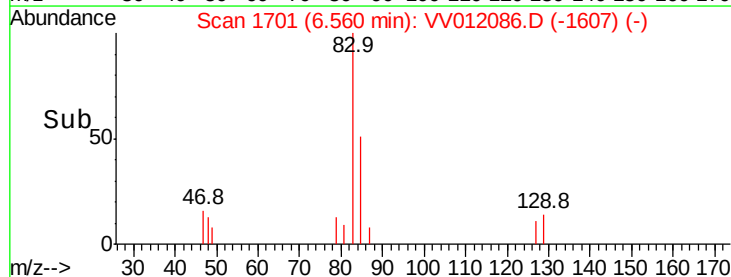
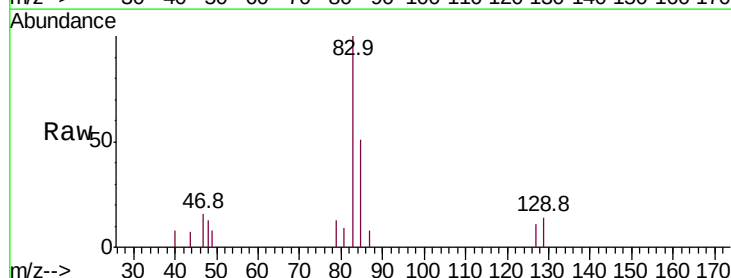
Manual Integrations
 APPROVED

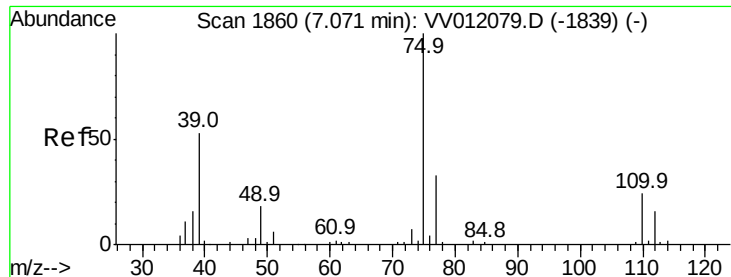
MMdadoda
 8/1/2019 9:58:21 AM



#38
 Bromodichloromethane
 Concen: 0.319 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Tgt Ion: 83 Resp: 3168
 Ion Ratio Lower Upper
 83 100
 85 51.3 46.2 85.8
 127 11.1 7.2 10.8#





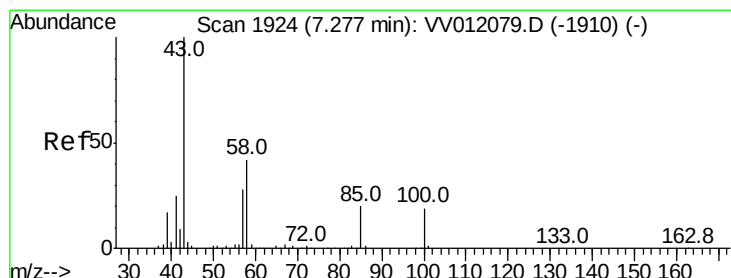
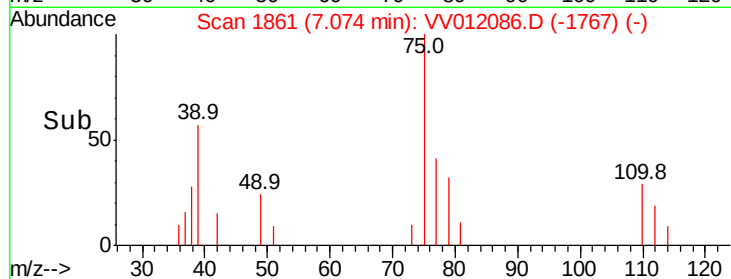
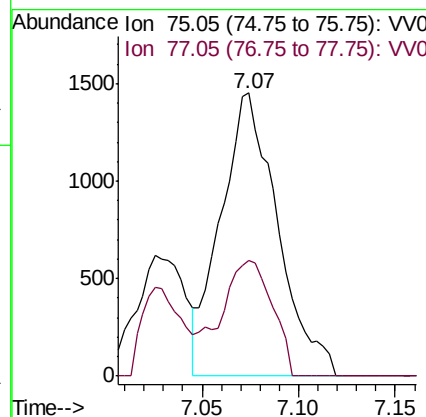
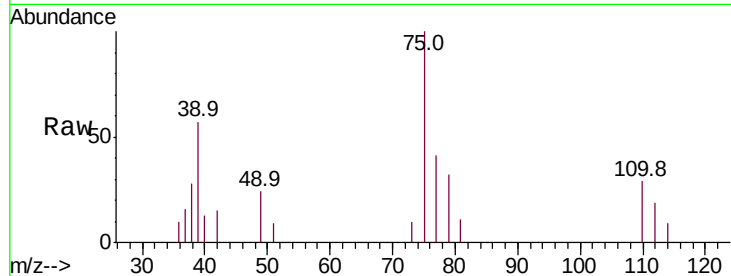
#39
 cis-1,3-Dichloropropene
 Concen: 0.282 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion: 75 Resp: 2971
 Ion Ratio Lower Upper
 75 100
 77 40.7 21.3 39.5#

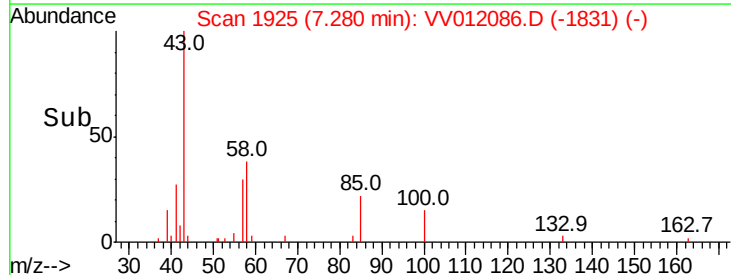
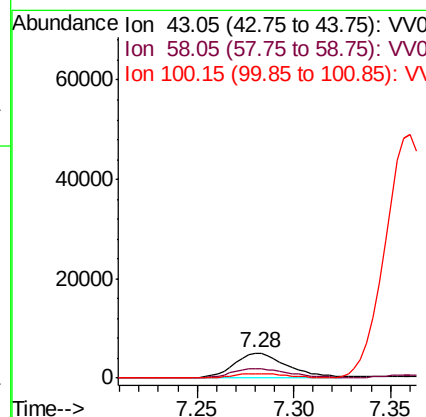
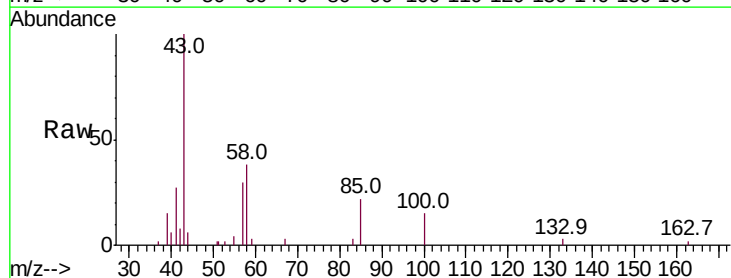
Manual Integrations
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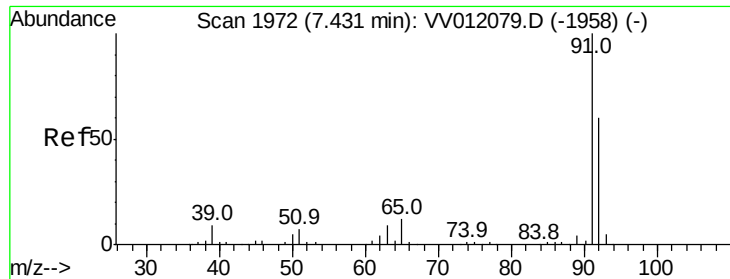
MMdadoda
 8/1/2019 9:58:21 AM



#40
 4-Methyl-2-pentanone
 Concen: 2.633 ug/L
 RT: 7.28 min Scan# 1925
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Tgt Ion: 43 Resp: 9688
 Ion Ratio Lower Upper
 43 100
 58 41.8 31.8 47.6
 100 0.0 15.0 22.4#





#42

Toluene

Concen: 0.300 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 9574

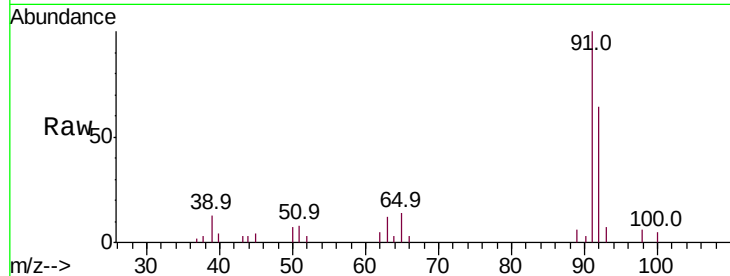
Ion Ratio Lower Upper

91 100

92 64.1 41.6 77.2

Manual Integrations
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MMdadoda
8/1/2019 9:58:21 AM



Abundance Ion 91.15 (90.85 to 91.85): VV012079.D (-1958) (-)

Ion 92.15 (91.85 to 92.85): VV012079.D (-1958) (-)

6000

5000

4000

3000

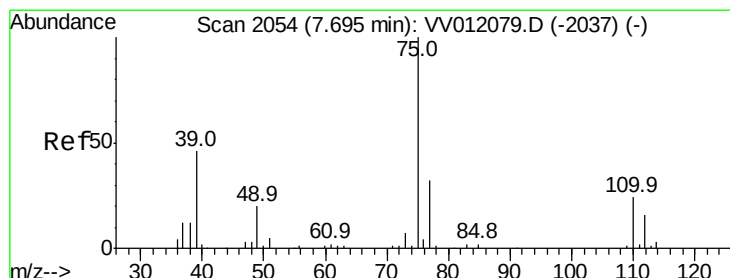
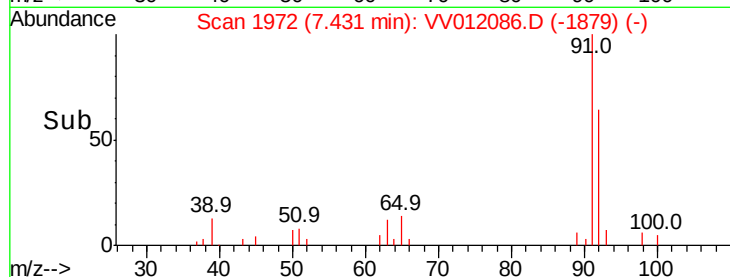
2000

1000

0

7.35 7.40 7.45 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.300 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012086.D

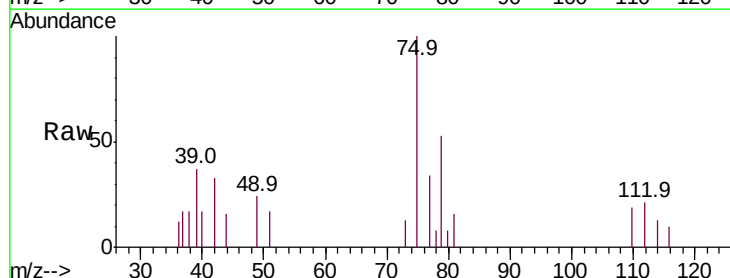
Acq: 30 Jul 2019 22:42

Tgt Ion: 75 Resp: 2544

Ion Ratio Lower Upper

75 100

77 34.3 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.35): VV012079.D (-2037) (-)

Ion 77.05 (76.75 to 77.35): VV012079.D (-2037) (-)

1500

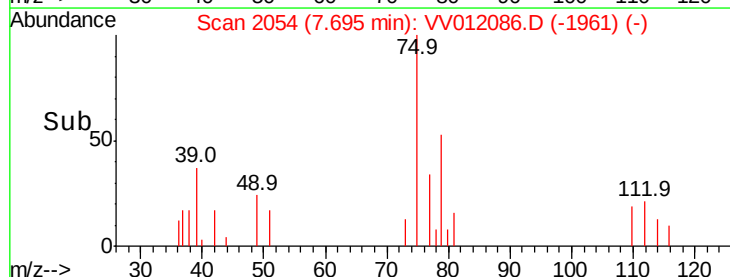
1000

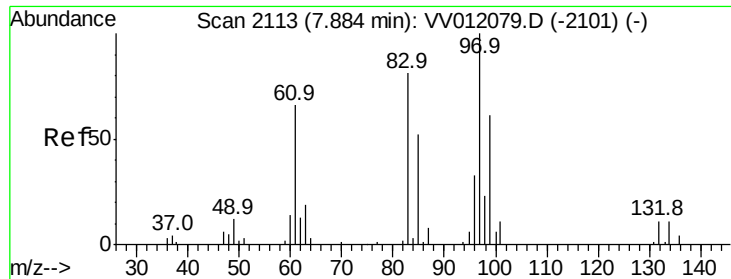
500

0

7.65 7.70 7.75

Time-->





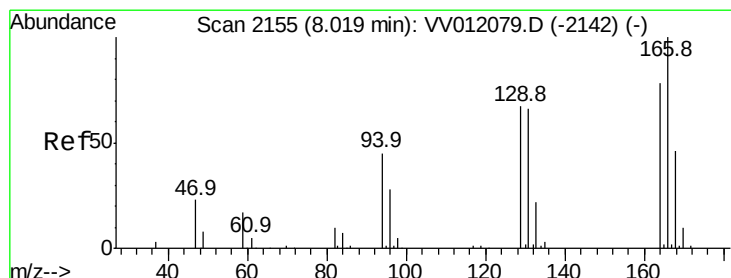
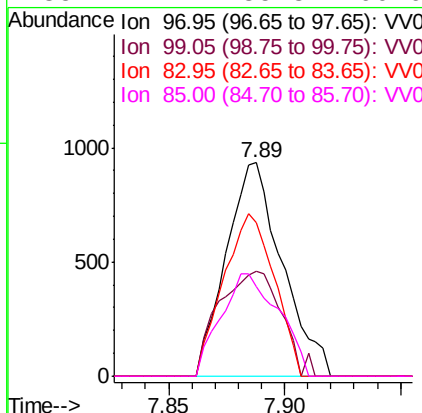
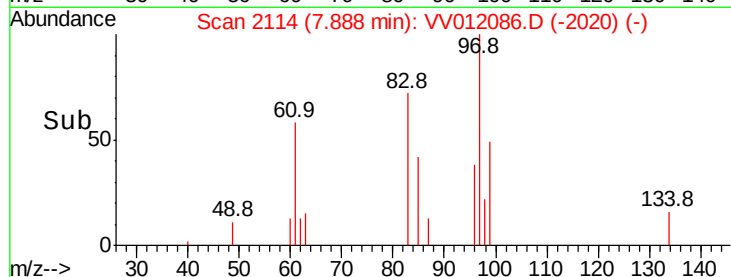
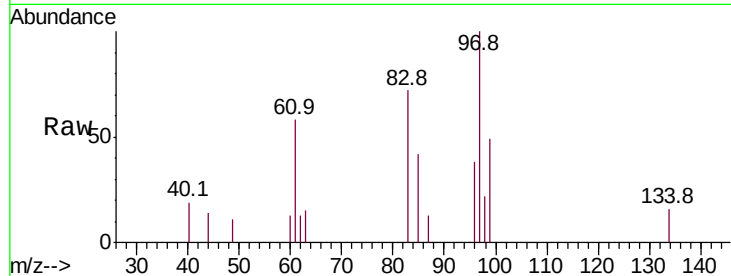
#45
1,1,2-Trichloroethane
Concen: 0.310 ug/L
RT: 7.89 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	97	Resp	1562
Ion	Ratio	Lower	Upper
97	100		
99	49.1	43.3	80.3
83	71.8	56.6	105.0
85	41.7	35.8	66.6

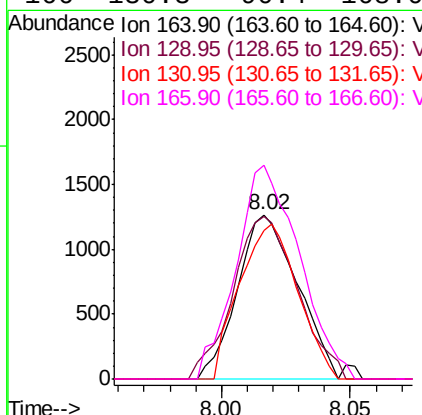
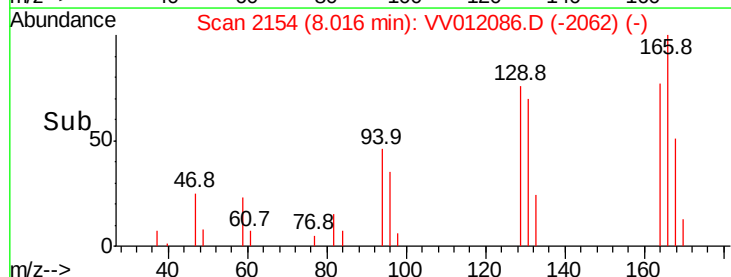
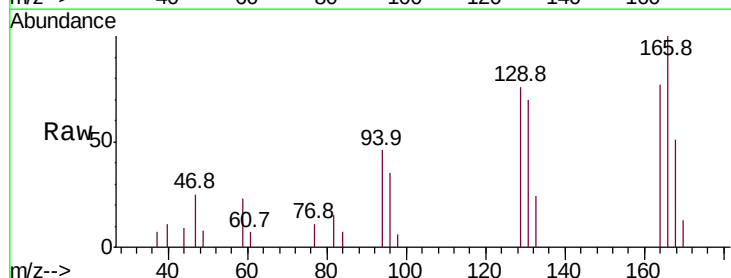
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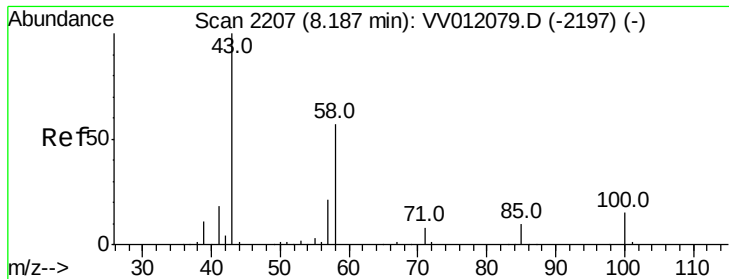
MMdadoda
8/1/2019 9:58:21 AM



#47
Tetrachloroethene
Concen: 0.269 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Tgt Ion	164	Resp	2060
Ion	Ratio	Lower	Upper
164	100		
129	98.9	62.5	116.1
131	91.0	60.9	113.1
166	130.3	90.4	168.0





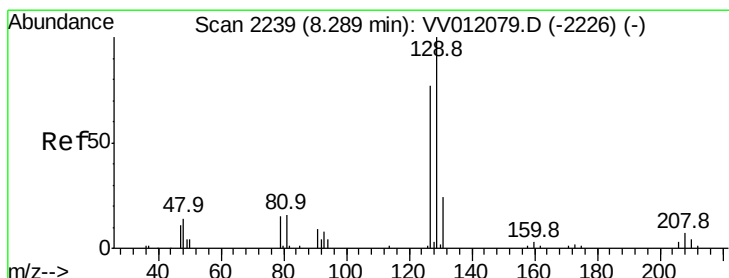
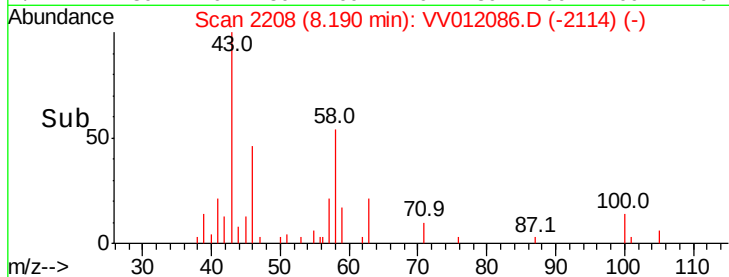
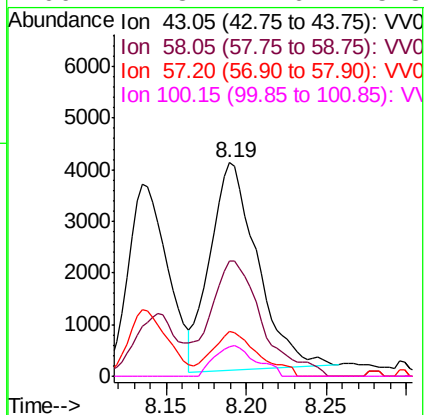
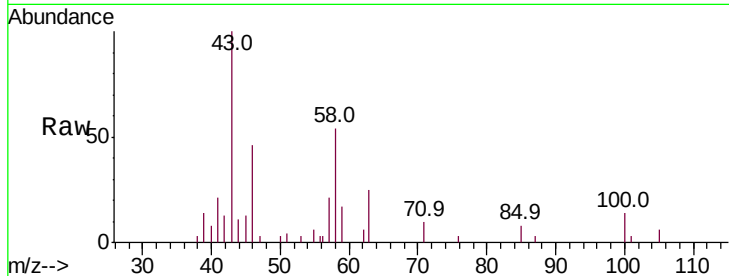
#48
2-Hexanone
Concen: 3.196 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
43	100		
58	60.6	45.7	68.5
57	21.2	17.0	25.4
100	12.8	12.6	18.8

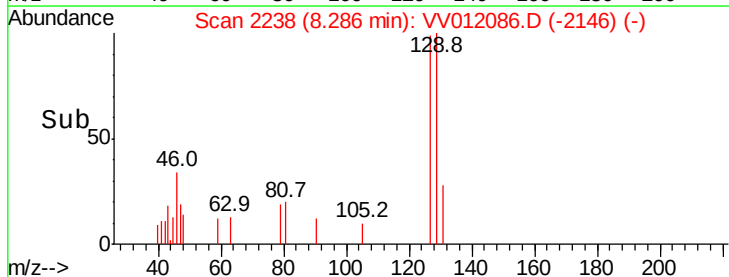
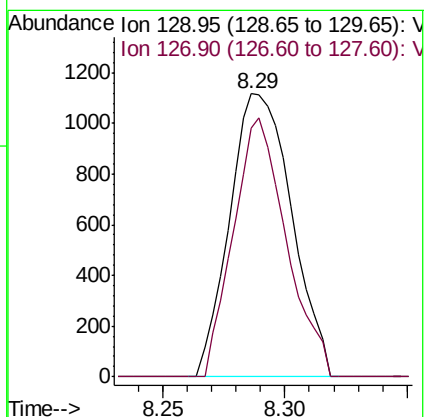
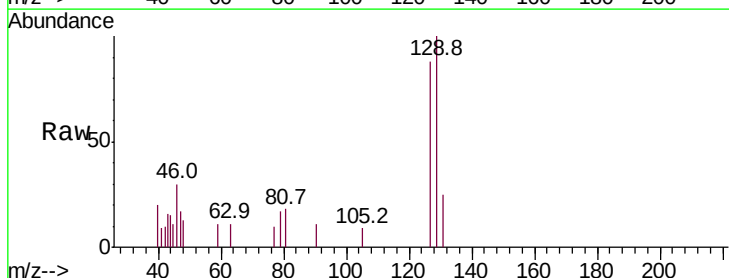
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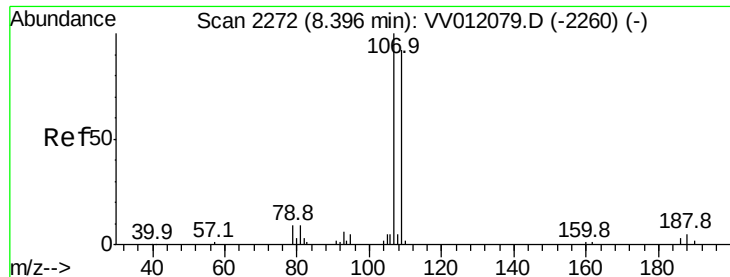
MMdadoda
8/1/2019 9:58:21 AM



#49
Dibromochloromethane
Concen: 0.301 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Tgt Ion	Ratio	Lower	Upper
129	100		
127	87.7	52.8	98.2





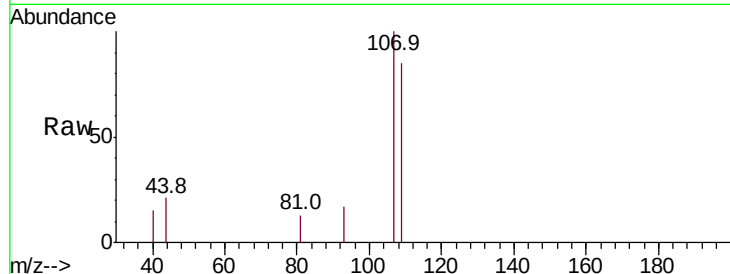
#50
 1,2-Dibromoethane
 Concen: 0.294 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	84.7	64.7	120.1
188	0.0	3.4	5.0#

Manual Integrations
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MMdadoda
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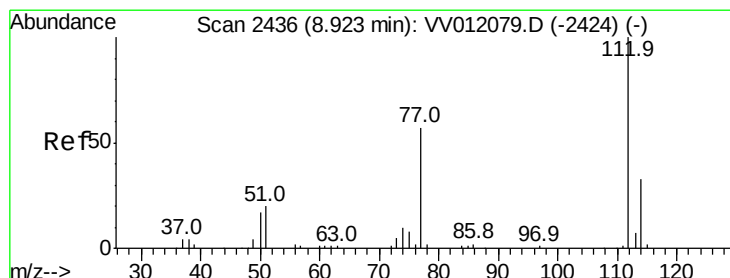
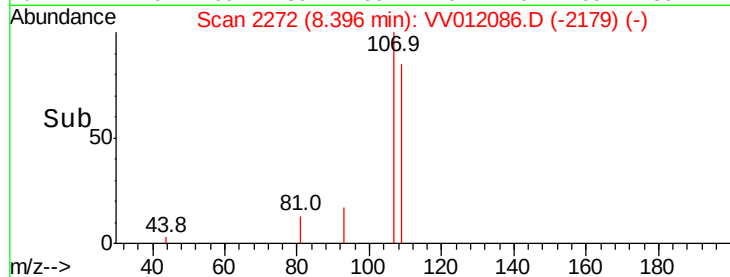
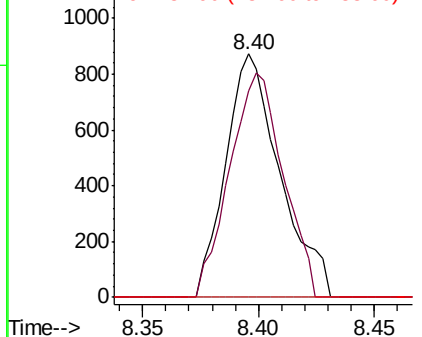


Abundance

Ion 106.95 (106.65 to 107.65): V

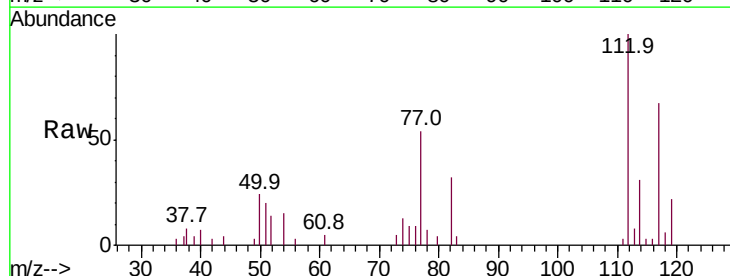
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
 Chlorobenzene
 Concen: 0.314 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.4	41.6
77	53.7	46.1	69.1

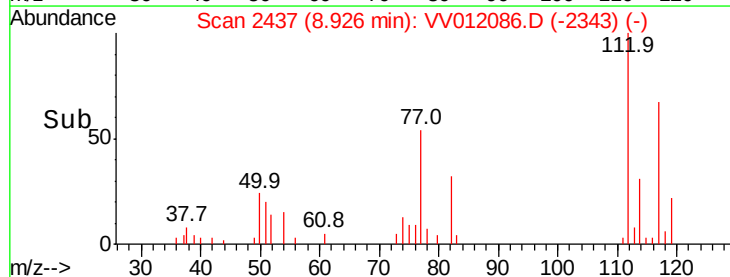
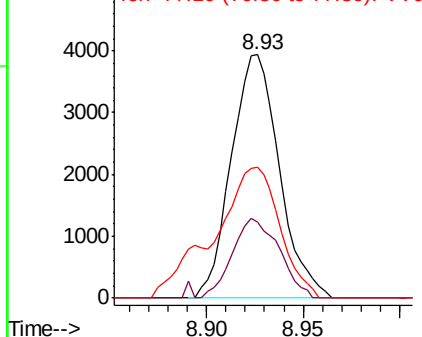


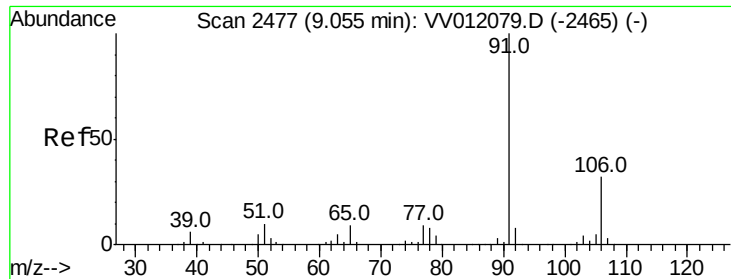
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 0.282 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 10388

Ion Ratio Lower Upper

91 100

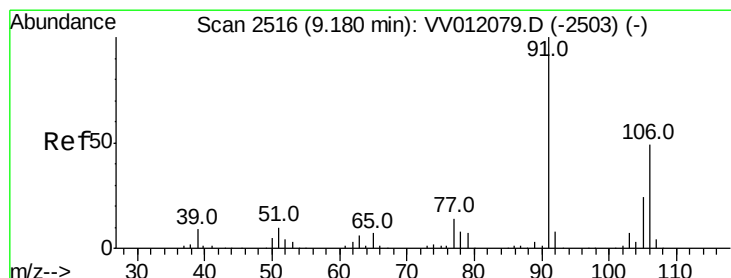
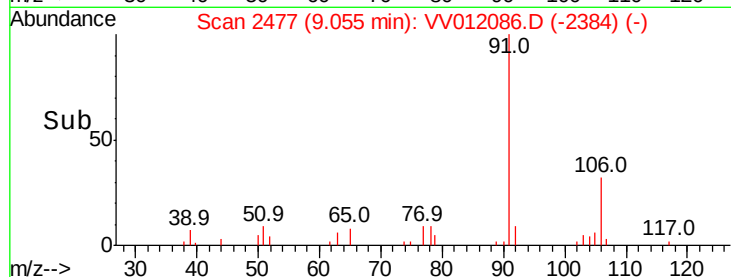
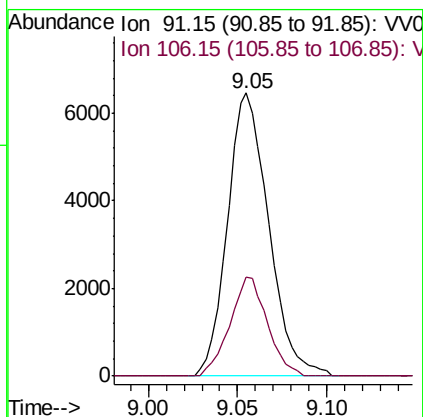
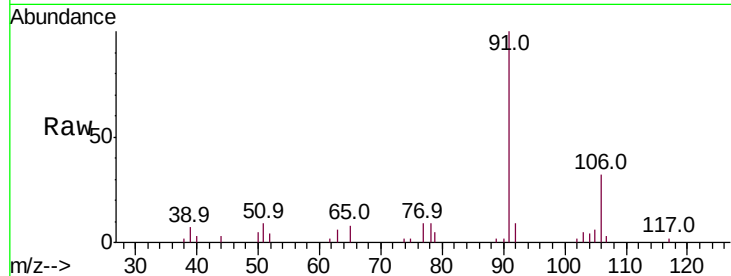
106 34.9 21.6 40.0

Manual Integrations

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MMdadoda

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#53

m,p-xylene

Concen: 0.276 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012086.D

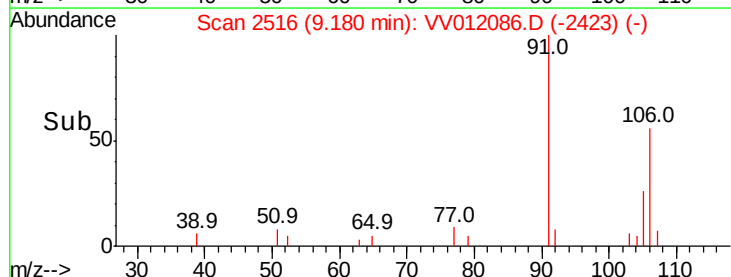
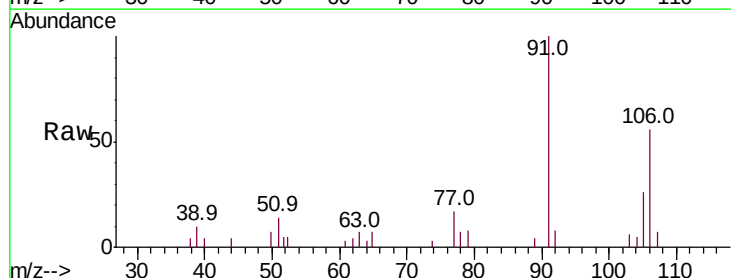
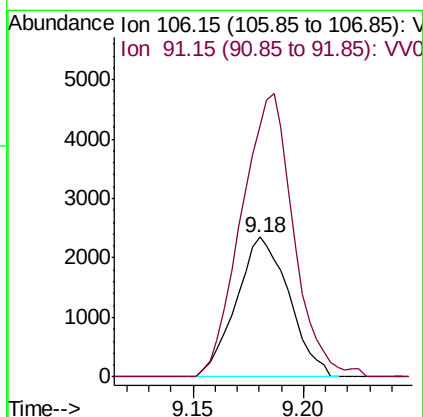
Acq: 30 Jul 2019 22:42

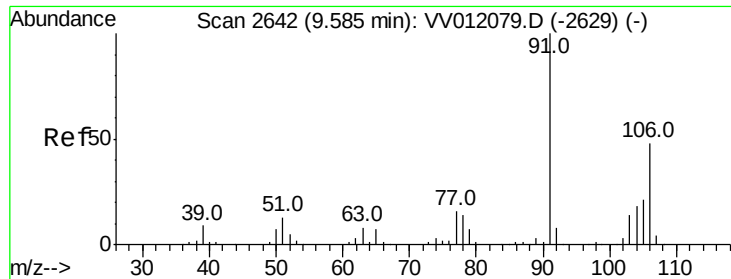
Tgt Ion: 106 Resp: 3901

Ion Ratio Lower Upper

106 100

91 179.7 148.7 276.3





#54

o-xylene

Concen: 0.277 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion:106 Resp: 3748

Ion Ratio Lower Upper

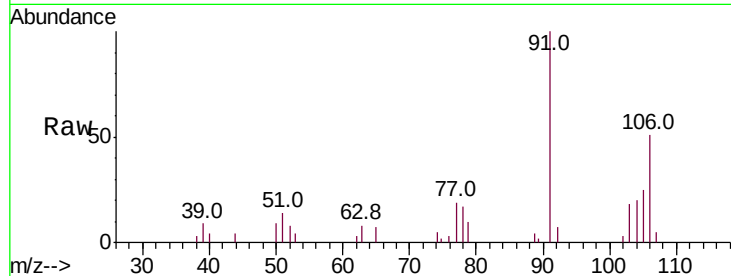
106 100

91 194.9 147.7 274.3

Manual Integrations
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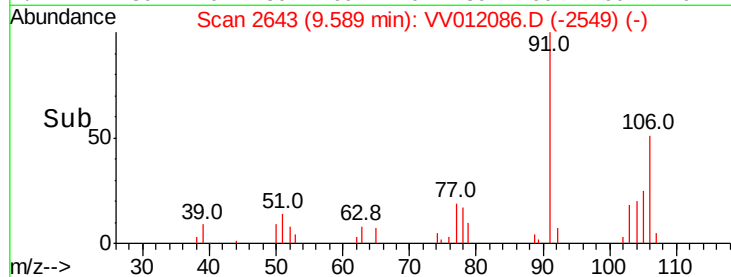
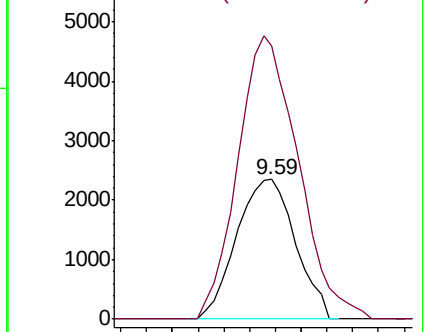
MMdadoda

8/1/2019 9:58:21 AM

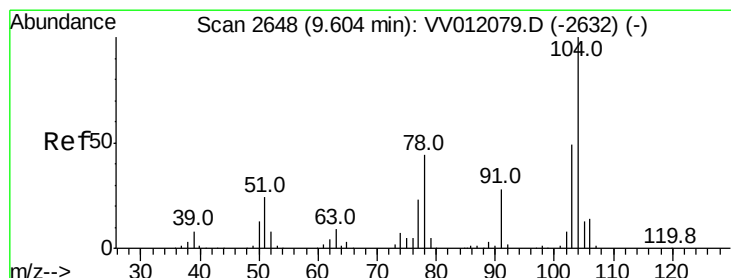


Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



Time-->



#55

Styrene

Concen: 0.268 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV012086.D

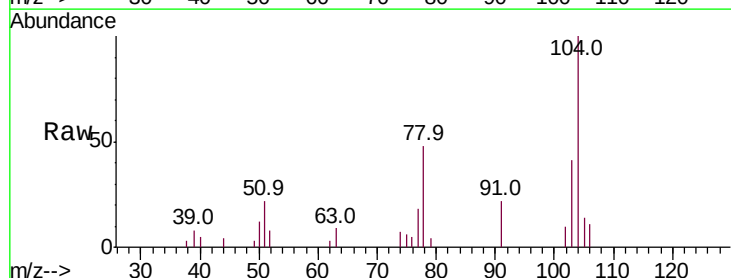
Acq: 30 Jul 2019 22:42

Tgt Ion:104 Resp: 6155

Ion Ratio Lower Upper

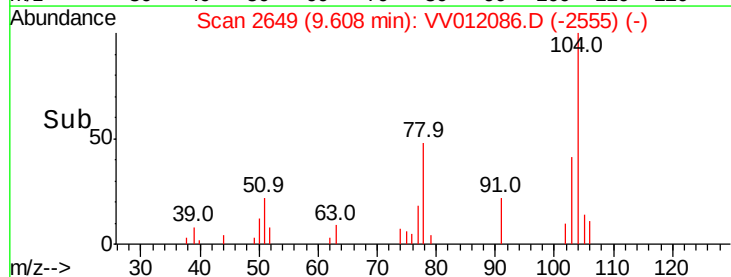
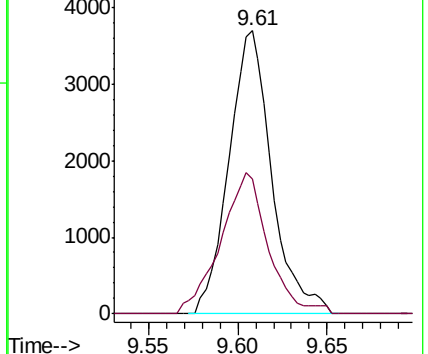
104 100

78 47.6 31.7 58.9

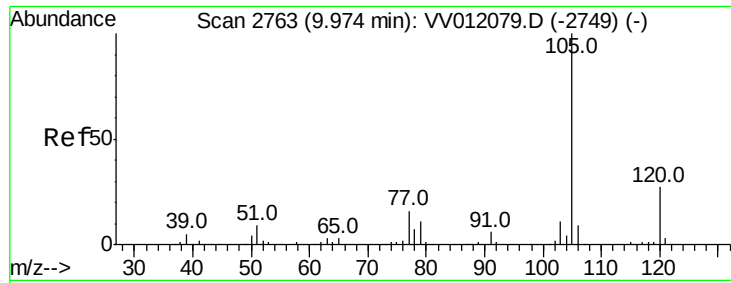


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0



Time-->



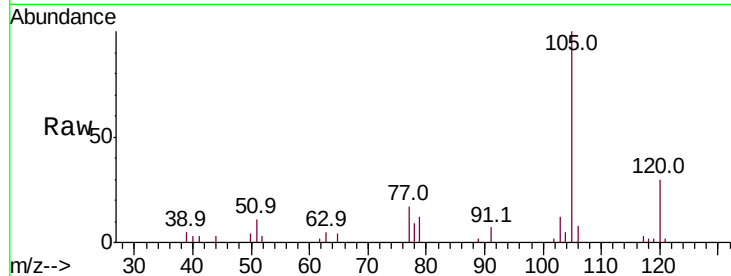
#56
Isopropylbenzene
Concen: 0.255 ug/L
RT: 9.97 min Scan# 2763
Delta R.T. 0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Instrument :
MSVOA_V
ClientSampleId :
MDL03

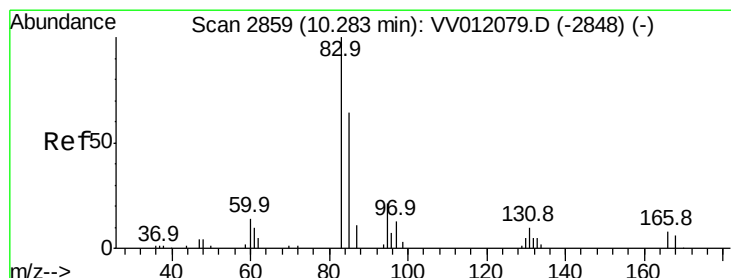
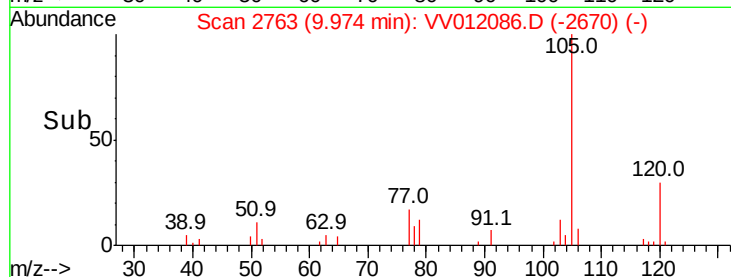
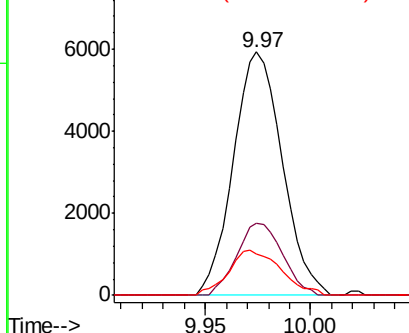
Tot Ion	Ratio	Lower	Upper
105	100		
120	27.7	21.8	32.8
77	19.7	12.7	19.1#

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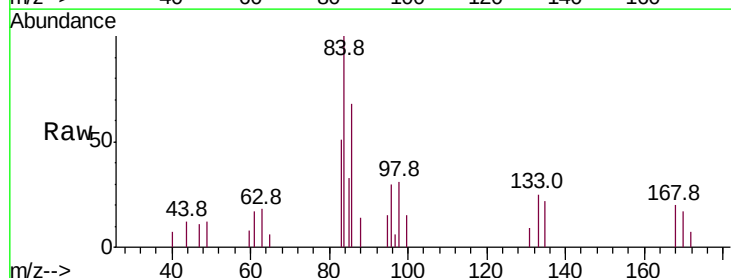


Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V

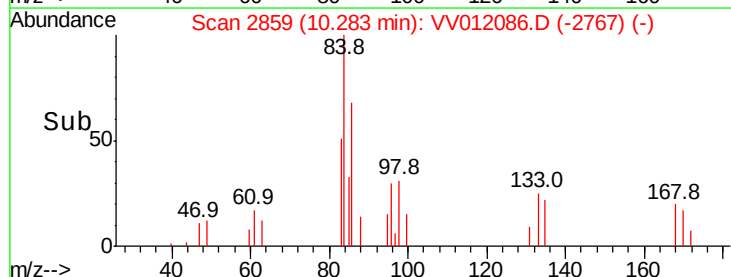
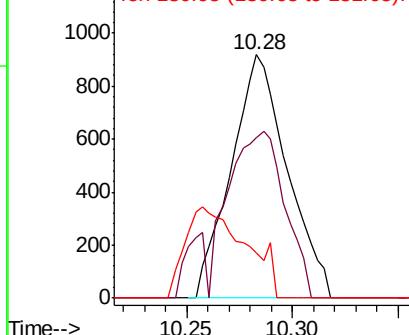


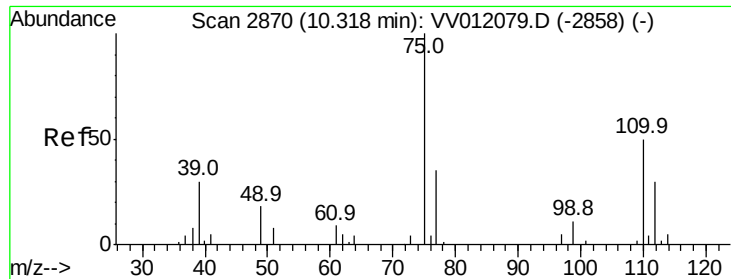
#58
1,1,2,2-Tetrachloroethane
Concen: 0.305 ug/L
RT: 10.28 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VV012086.D
Acq: 30 Jul 2019 22:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	45.1	83.7
131	18.3	10.3	15.5#



Abundance Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.351 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 75 Resp: 1475

Ion Ratio Lower Upper

75 100

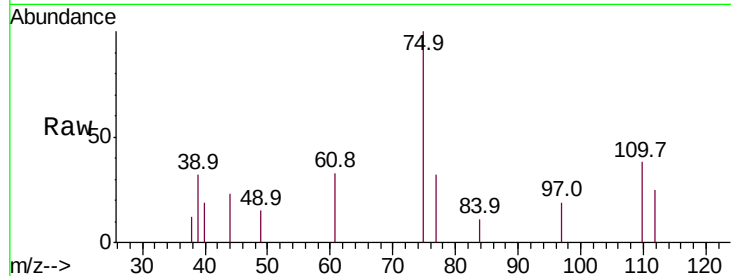
77 35.8 26.9 40.3

Manual Integrations

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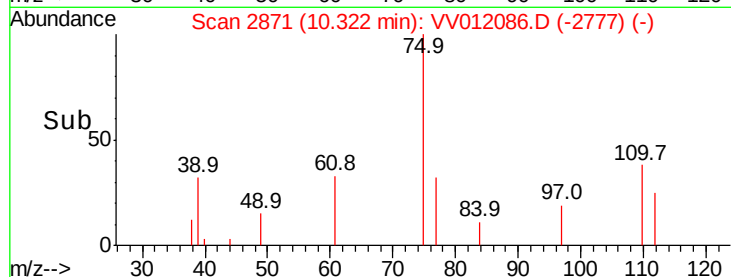


Abundance Ion 75.00 (74.70 to 75.70): VV012079.D (-2858) (-)

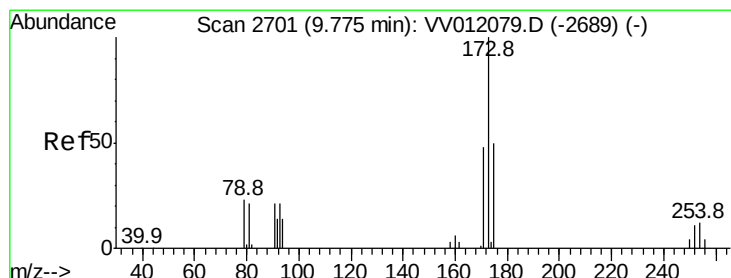
Ion 77.00 (76.70 to 77.70): VV012079.D (-2858) (-)

10.32

10.30 10.35



Time-->



#61

Bromoform

Concen: 0.313 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

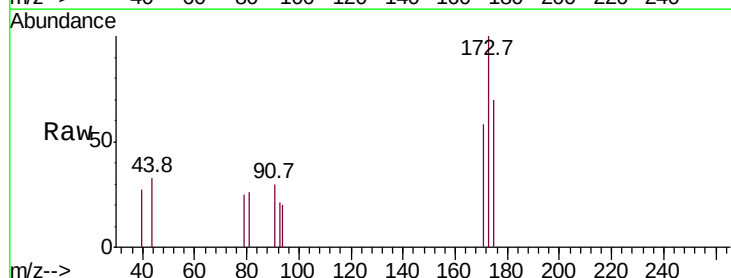
Tgt Ion: 173 Resp: 1018

Ion Ratio Lower Upper

173 100

175 60.2 39.4 59.2#

254 2.0 8.7 13.1#



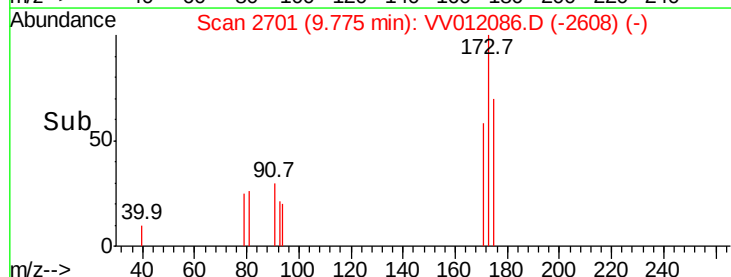
Abundance Ion 172.90 (172.60 to 173.60): VV012079.D (-2689) (-)

Ion 174.90 (174.60 to 175.60): VV012079.D (-2689) (-)

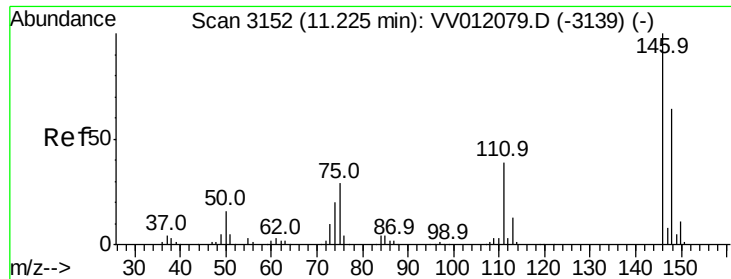
Ion 253.75 (253.45 to 254.45): VV012079.D (-2689) (-)

9.78

9.75 9.80



Time-->



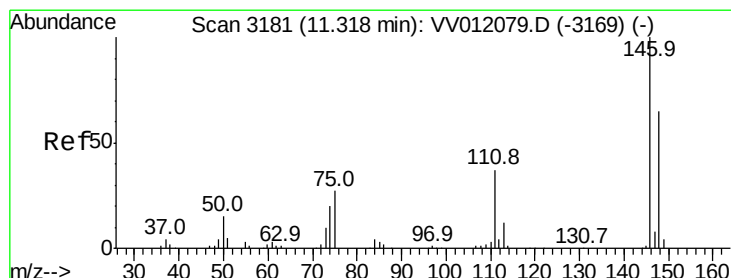
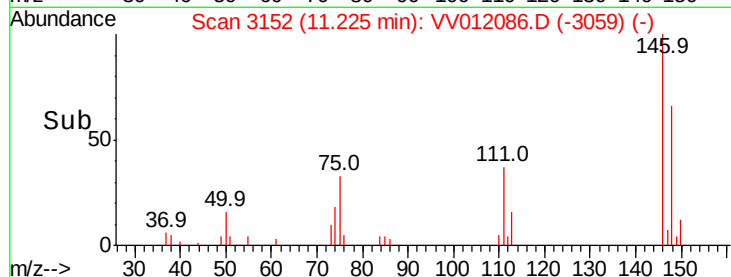
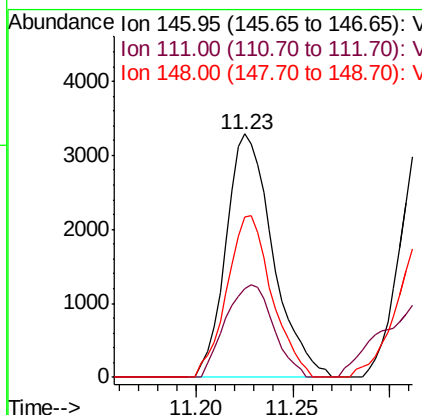
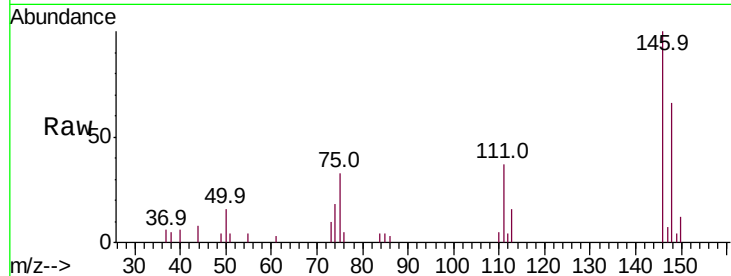
#62
 1,3-Dichlorobenzene
 Concen: 0.328 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.6	27.2	50.6
148	66.1	45.9	85.3

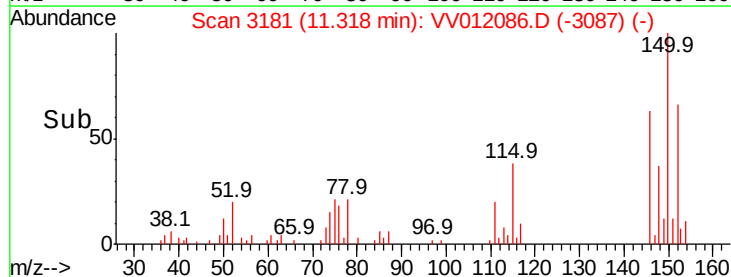
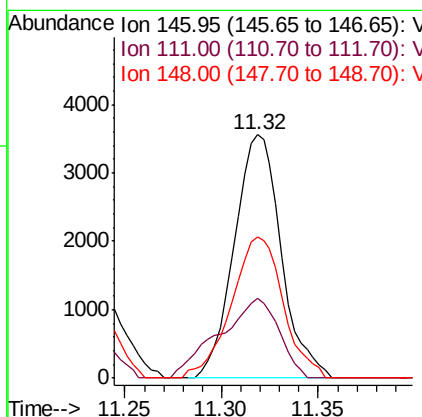
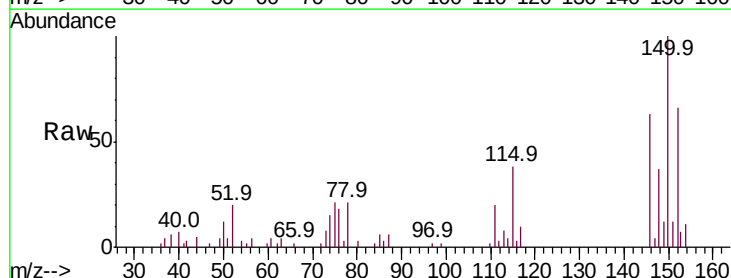
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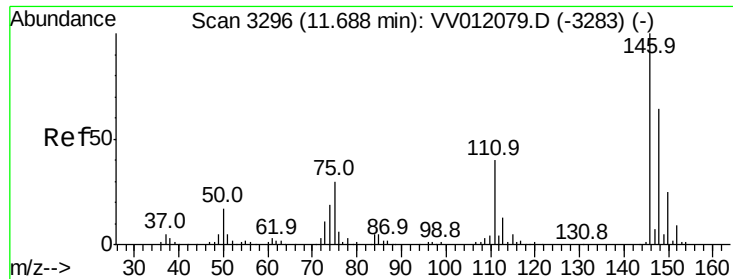
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#63
 1,4-Dichlorobenzene
 Concen: 0.349 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	25.4	47.2
148	58.2	43.5	80.7





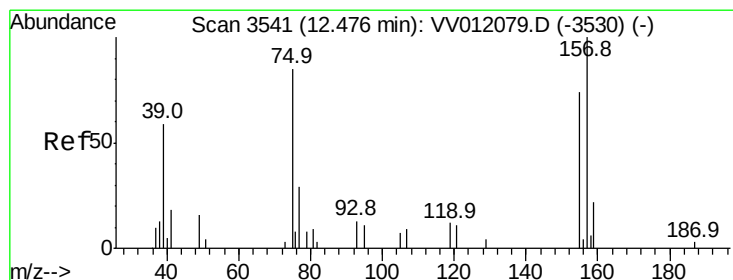
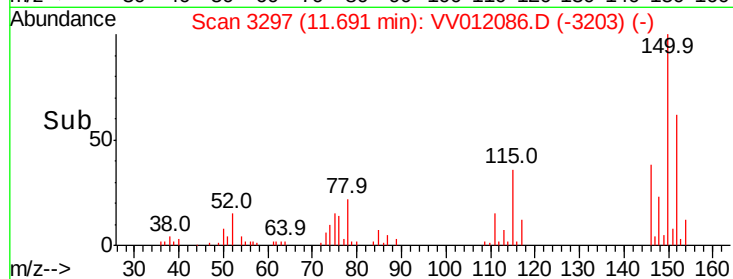
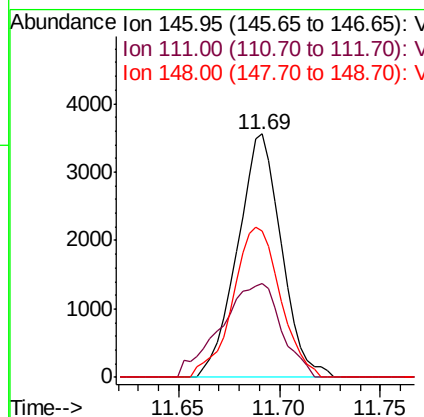
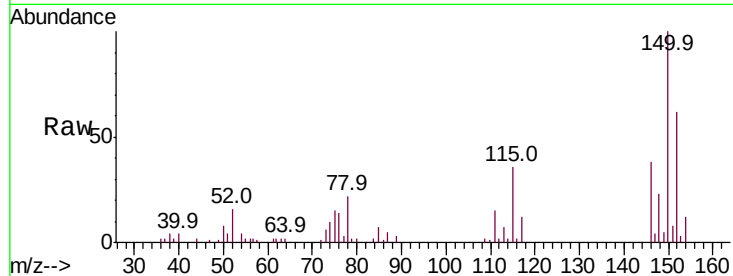
#65
 1,2-Dichlorobenzene
 Concen: 0.357 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	32.3	48.5
148	60.1	49.9	74.9

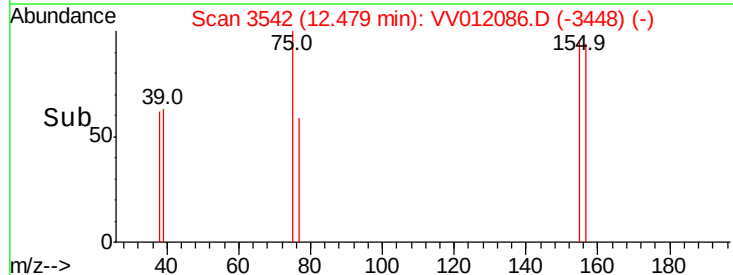
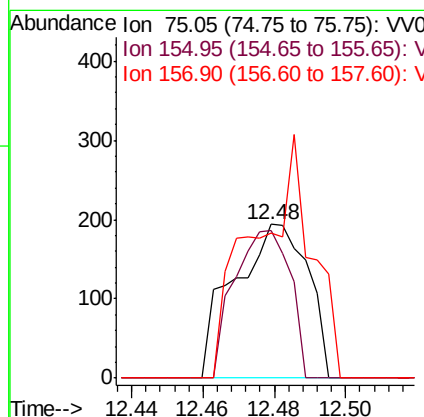
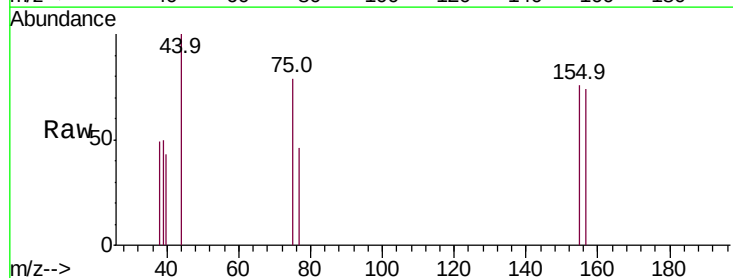
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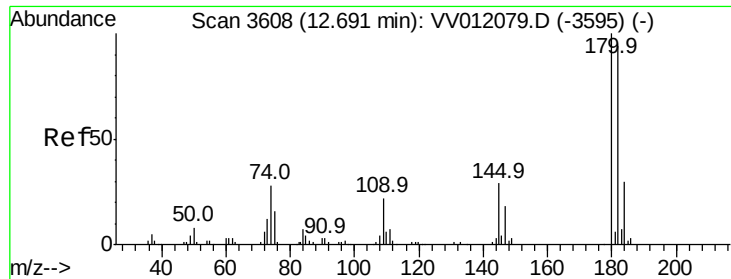
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.341 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.4	66.9	100.3
157	94.3	81.8	122.6





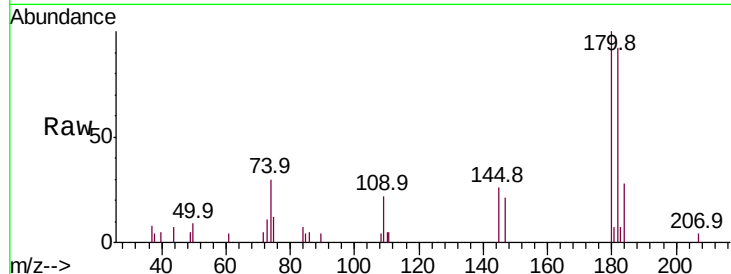
#67
 1,3,5-Trichlorobenzene
 Concen: 0.347 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.6	115.0
184	27.8	23.8	35.8
145	29.2	22.6	33.8

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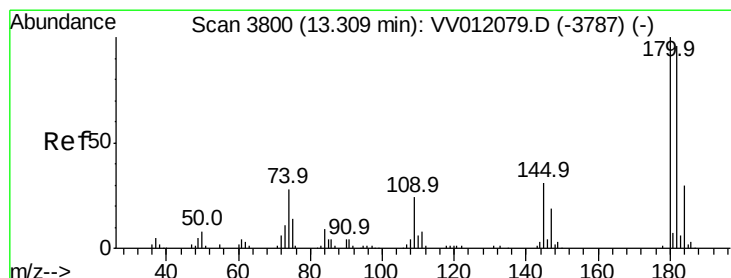
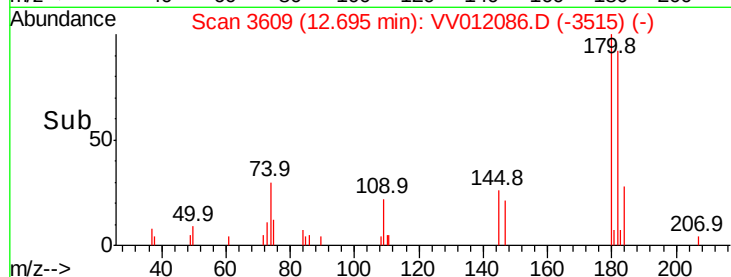
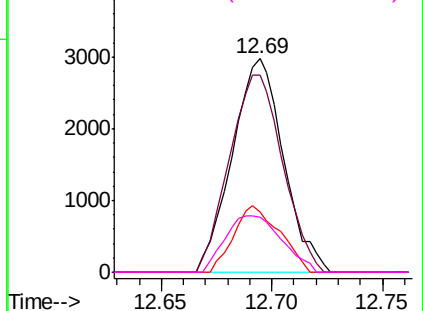
Abundance

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: 0.312 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012086.D
 Acq: 30 Jul 2019 22:42

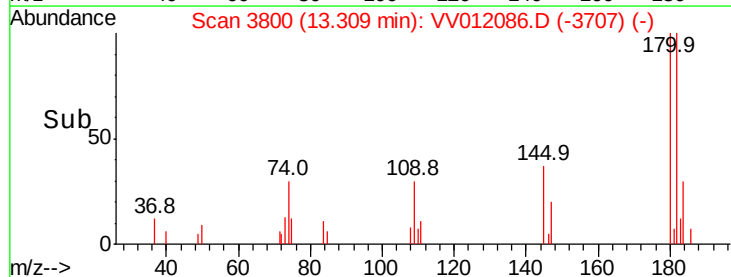
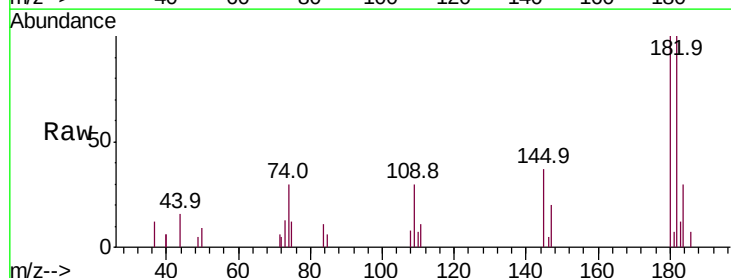
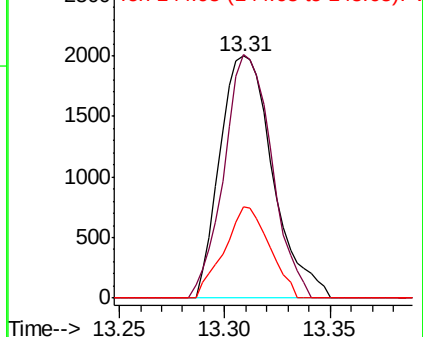
Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.5	75.4	113.0
145	32.3	23.5	35.3

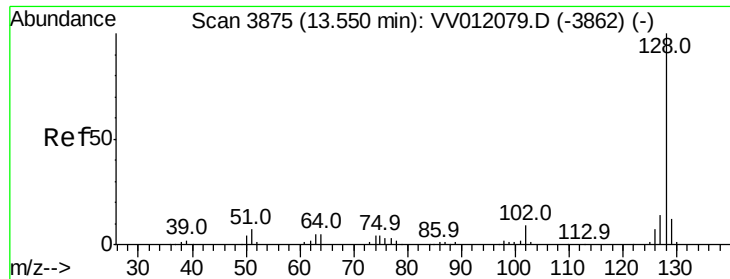
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.290 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.01 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Instrument :

MSVOA_V

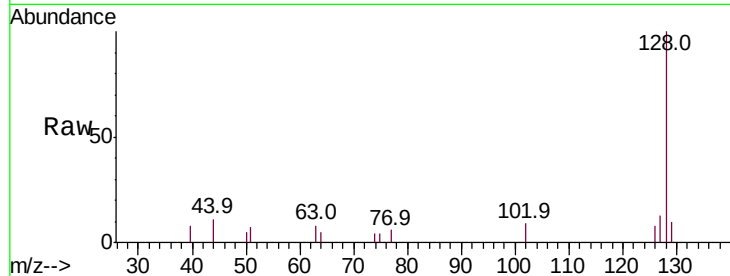
ClientSampleId :

MDL03

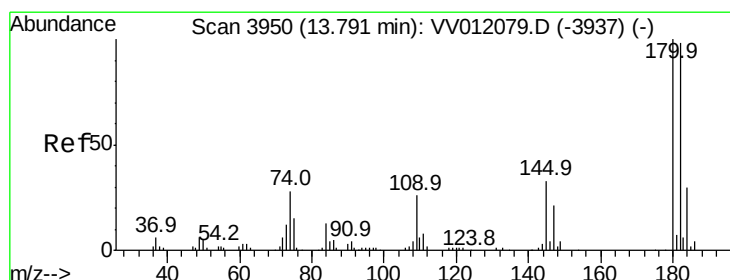
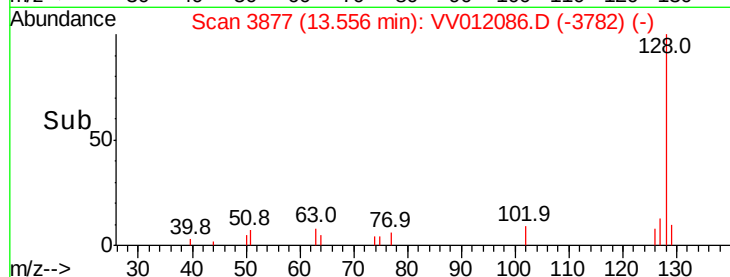
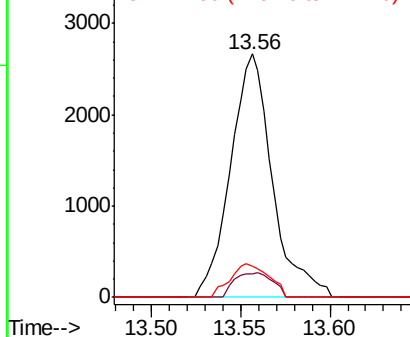
Tot Ion:	128	Resp:	4345
Ion	Ratio	Lower	Upper
128	100		
129	9.1	8.4	12.6
127	12.7	10.0	15.0

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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.314 ug/L

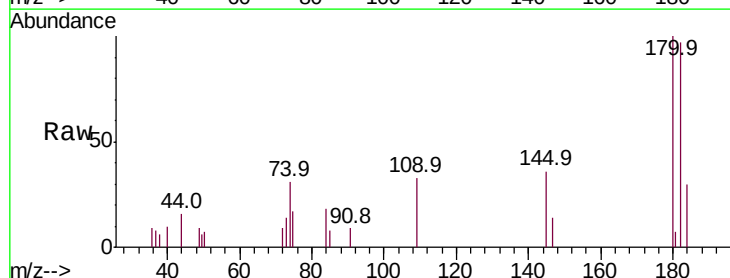
RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012086.D

Acq: 30 Jul 2019 22:42

Tgt Ion:	180	Resp:	3119
Ion	Ratio	Lower	Upper
180	100		
182	93.5	76.5	114.7
145	27.2	24.4	36.6



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

