

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV073019\
 Data File : VV012071.D
 Acq On : 30 Jul 2019 12:30
 Operator : SY/MD
 Sample : MDL05
 Misc : 25ML/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMdadoda
 8/1/2019 3:18:26 PM

Quant Time: Jul 31 09:36:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 31 09:22:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	122796	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	120131	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.30	152	60395	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	30672	4.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.20%
7) Chloroethane-d5	1.59	69	23744	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.40%
11) 1,1-Dichloroethene-d2	2.13	63	49317	3.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.40%
20) 2-Butanone-d5	3.97	46	84389	53.47	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.94%
24) Chloroform-d	4.40	84	77837	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.60%
26) 1,2-Dichloroethane-d4	5.09	65	45354	5.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.60%
32) Benzene-d6	5.10	84	158560	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.80%
36) 1,2-Dichloropropane-d6	6.12	67	44333	5.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.80%
41) Toluene-d8	7.36	98	147987	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
43) trans-1,3-Dichloropropene-	7.67	79	19171	5.18	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.60%
46) 2-Hexanone-d5	8.14	63	65744	50.24	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.48%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	31039	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
66) 1,2-Dichlorobenzene-d4	11.67	152	59768	5.56	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3882	0.277 ug/L	100
3) Chloromethane	1.25	50	1957	0.244 ug/L	90
5) Vinyl chloride	1.33	62	1963	0.240 ug/L #	67
6) Bromomethane	1.54	94	1343	0.274 ug/L	95
8) Chloroethane	1.60	64	1398	0.314 ug/L	97
9) Trichlorofluoromethane	1.77	101	3960	0.282 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2149	0.353 ug/L	90
12) 1,1-Dichloroethene	2.14	96	2000	0.355 ug/L #	1
13) Acetone	2.24	43	2740m	3.154 ug/L	
14) Carbon disulfide	2.32	76	4248	0.270 ug/L	98
15) Methyl Acetate	2.48	43	793	0.444 ug/L #	60
16) Methylene chloride	2.54	84	2020m	0.349 ug/L	
17) Methyl tert-butyl Ether	2.81	73	5128	0.289 ug/L	96
18) trans-1,2-Dichloroethene	2.79	96	2422	0.298 ug/L	93
19) 1,1-Dichloroethane	3.23	63	3741	0.257 ug/L	96
21) 2-Butanone	4.06	43	4362m	2.545 ug/L	
22) cis-1,2-Dichloroethene	3.96	96	2496m	0.288 ug/L	

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

23) Bromochloromethane	4.31	128	1090	0.287	ug/L	95
25) Chloroform	4.43	83	12041	0.661	ug/L	92
27) 1,2-Dichloroethane	5.19	62	2871	0.285	ug/L #	76
29) 1,1,1-Trichloroethane	4.66	97	4217	0.284	ug/L #	84
30) Cyclohexane	4.72	56	3301	0.260	ug/L	97
31) Carbon tetrachloride	4.87	117	3562	0.267	ug/L	97
33) Benzene	5.14	78	9263	0.284	ug/L	100
34) Trichloroethene	5.96	95	2392	0.257	ug/L	82
35) Methylcyclohexane	6.17	83	3787	0.260	ug/L	94
37) 1,2-Dichloropropane	6.22	63	2112	0.280	ug/L #	95
38) Bromodichloromethane	6.56	83	3064	0.287	ug/L #	94
39) cis-1,3-Dichloropropene	7.07	75	3296	0.278	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	10776	2.530	ug/L #	88
42) Toluene	7.43	91	9556	0.263	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	2535	0.265	ug/L #	82
45) 1,1,2-Trichloroethane	7.88	97	1686	0.293	ug/L	93
47) Tetrachloroethene	8.02	164	2115	0.260	ug/L	90
48) 2-Hexanone	8.19	43	8996	2.989	ug/L #	94
49) Dibromochloromethane	8.29	129	1942	0.275	ug/L	97
50) 1,2-Dibromoethane	8.40	107	1606	0.298	ug/L #	91
51) Chlorobenzene	8.93	112	6752	0.278	ug/L	96
52) Ethylbenzene	9.06	91	10253	0.248	ug/L	98
53) m,p-xylene	9.18	106	4263	0.270	ug/L	87
54) o-xylene	9.59	106	3722	0.250	ug/L	86
55) Styrene	9.61	104	5885	0.234	ug/L	85
57) 1,1,2,2-Tetrachloroethane	10.28	83	1781	0.288	ug/L #	94
59) Bromoform	9.77	173	995	0.273	ug/L #	94
60) Isopropylbenzene	9.97	105	9947	0.258	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	1261	0.286	ug/L	96
62) 1,3,5-Trimethylbenzene	10.58	105	7759	0.244	ug/L	96
63) 1,2,4-Trimethylbenzene	10.96	105	7316	0.231	ug/L	91
64) 1,3-Dichlorobenzene	11.23	146	5491	0.286	ug/L	98
65) 1,4-Dichlorobenzene	11.32	146	5446	0.278	ug/L	94
67) 1,2-Dichlorobenzene	11.69	146	4983	0.285	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.47	75	226	0.249	ug/L	87
69) 1,3,5-Trichlorobenzene	12.69	180	4551	0.286	ug/L	98
70) 1,2,4-trichlorobenzene	13.31	180	3302	0.262	ug/L	95
71) Naphthalene	13.56	128	4202	0.241	ug/L #	93
72) 1,2,3-Trichlorobenzene	13.79	180	3039	0.273	ug/L	87

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

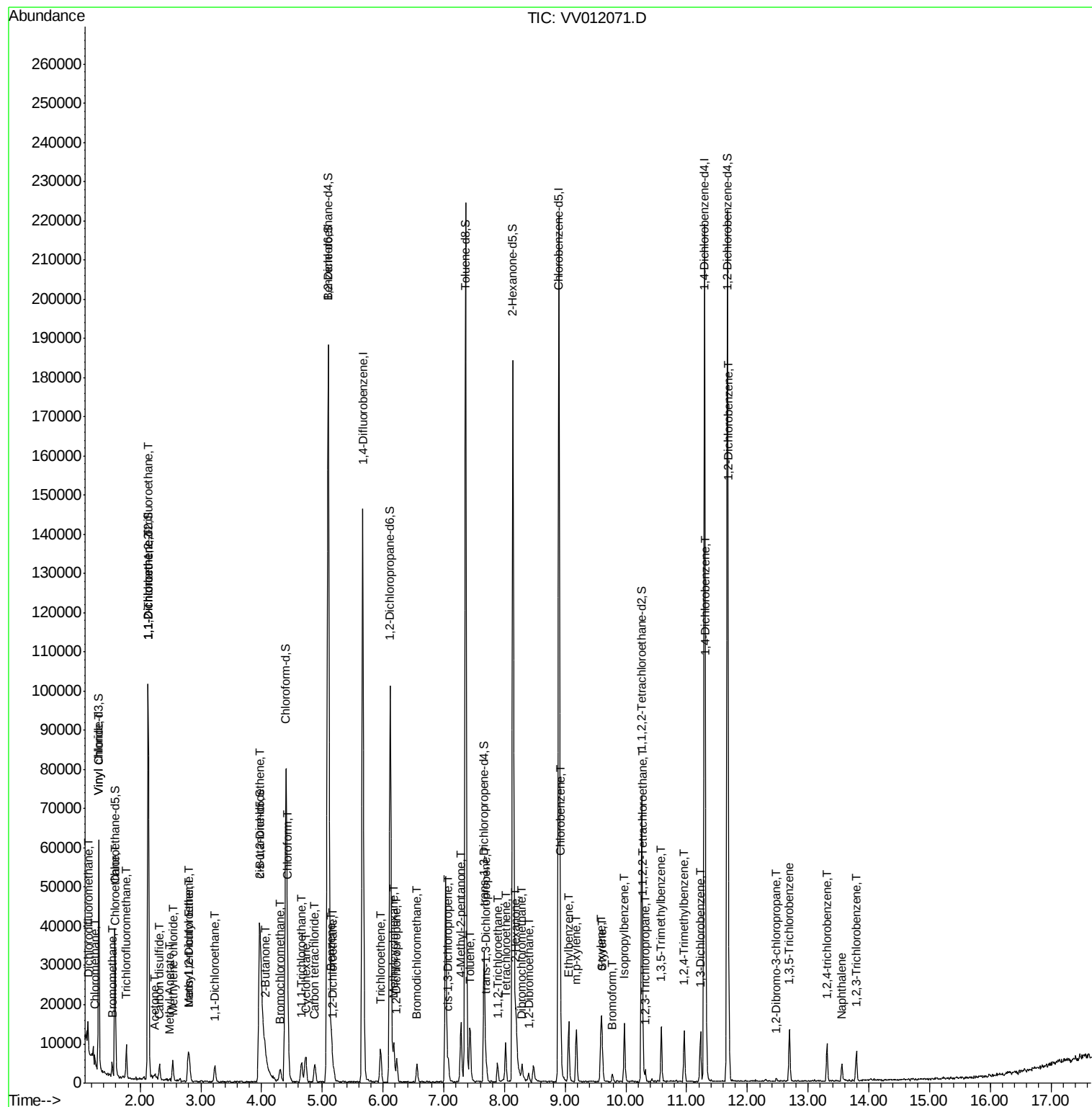
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV073019\
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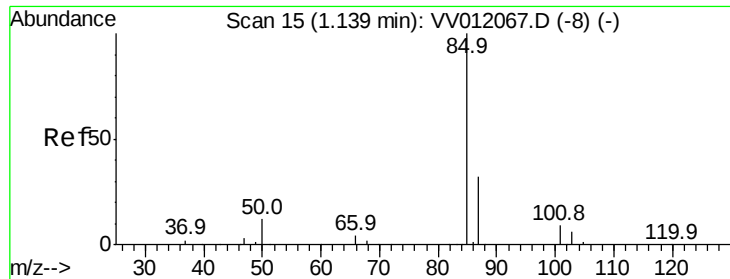
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

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#2

Dichlorodifluoromethane

Concen: 0.277 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 85 Resp: 3882

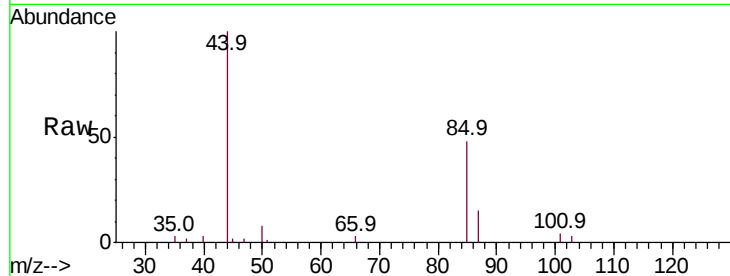
Ion Ratio Lower Upper

85 100

87 32.5 25.9 38.9

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Abundance Ion 85.00 (84.70 to 85.70): VV012067.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012067.D (-8) (-)

1.14

4000

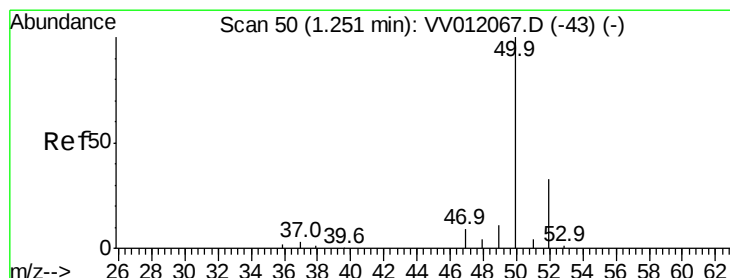
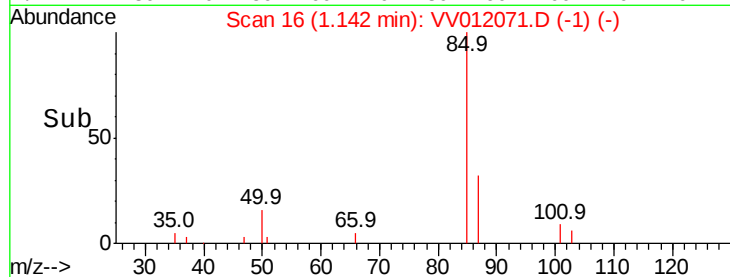
3000

2000

1000

0

Time-->



#3

Chloromethane

Concen: 0.244 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012071.D

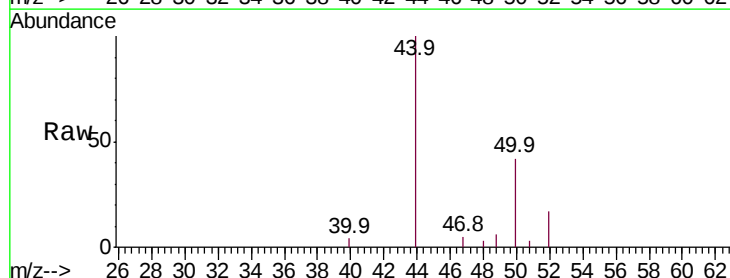
Acq: 30 Jul 2019 12:30

Tgt Ion: 50 Resp: 1957

Ion Ratio Lower Upper

50 100

52 38.9 23.4 43.4



Abundance Ion 50.05 (49.75 to 50.75): VV012067.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV012067.D (-43) (-)

1.25

2000

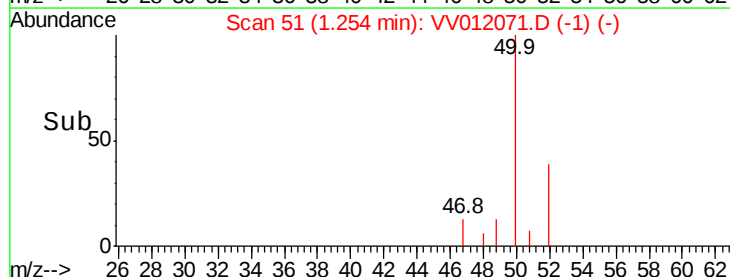
1500

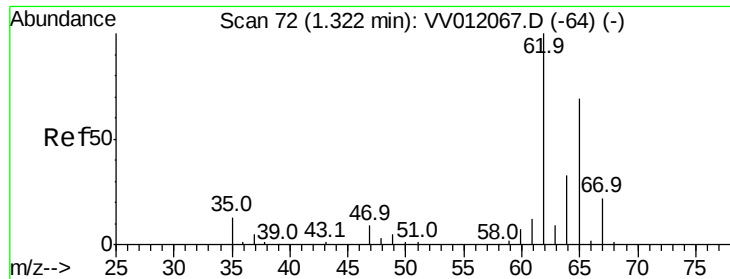
1000

500

0

Time-->





#5

Vinyl chloride

Concen: 0.240 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 62 Resp: 1963

Ion Ratio Lower Upper

62 100

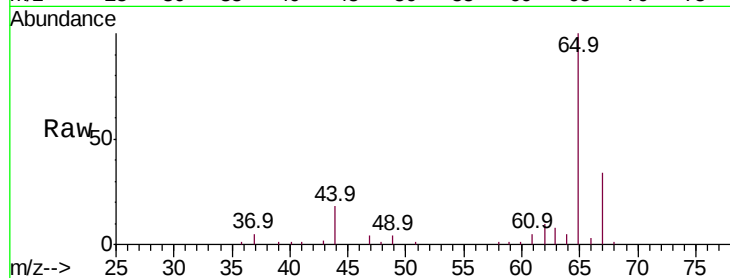
64 49.7 22.0 41.0#

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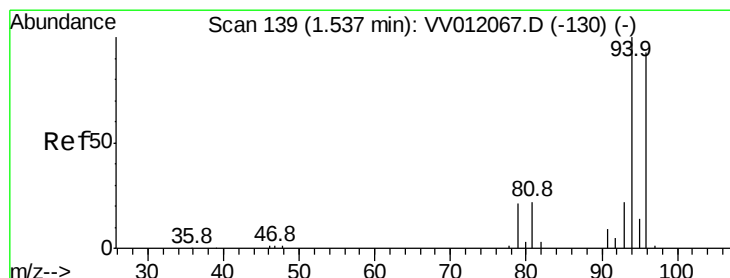
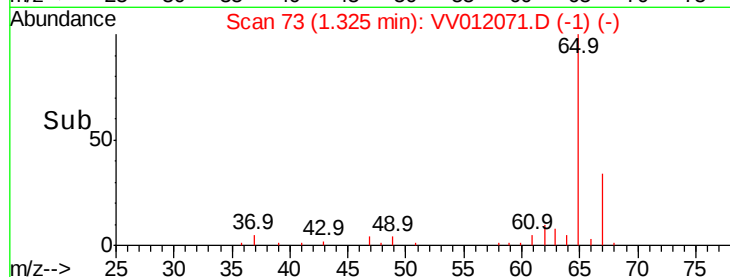
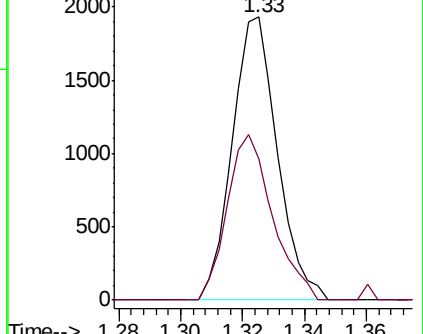
MMdadoda

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Abundance Ion 62.00 (61.70 to 62.70): VV012067.D (-64) (-)

Ion 64.10 (63.80 to 64.80): VV012067.D (-64) (-)



#6

Bromomethane

Concen: 0.274 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.00 min

Lab File: VV012071.D

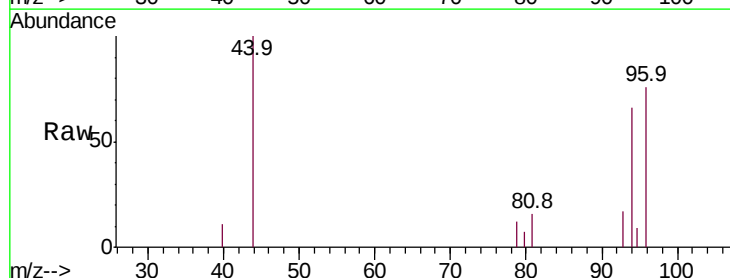
Acq: 30 Jul 2019 12:30

Tgt Ion: 94 Resp: 1343

Ion Ratio Lower Upper

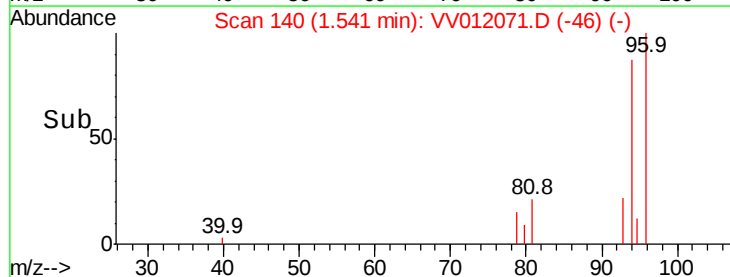
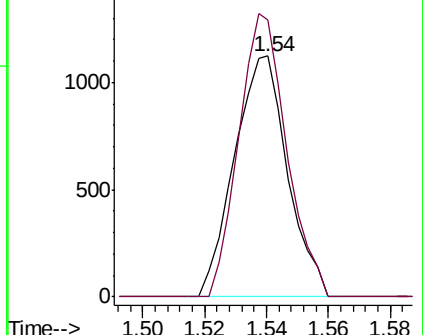
94 100

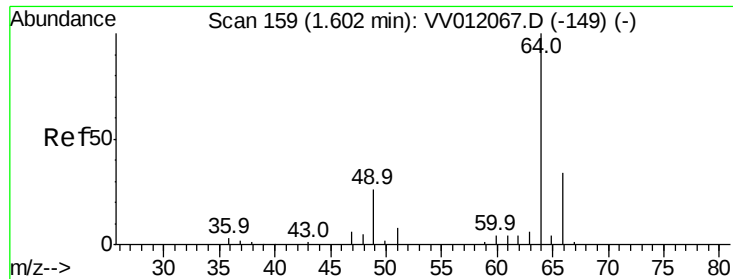
96 101.3 67.8 125.8



Abundance Ion 94.00 (93.70 to 94.70): VV012067.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV012067.D (-130) (-)





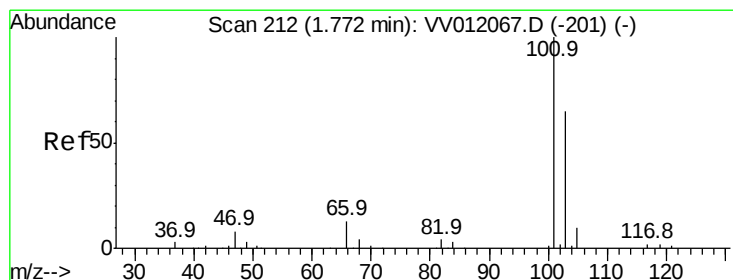
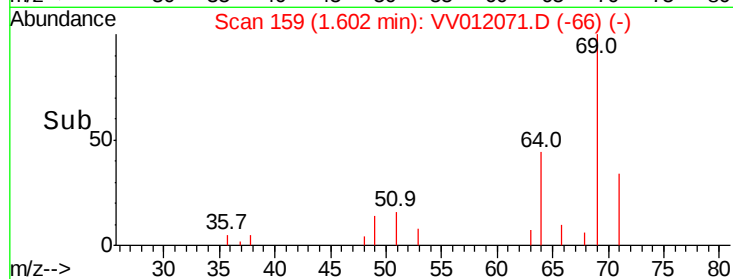
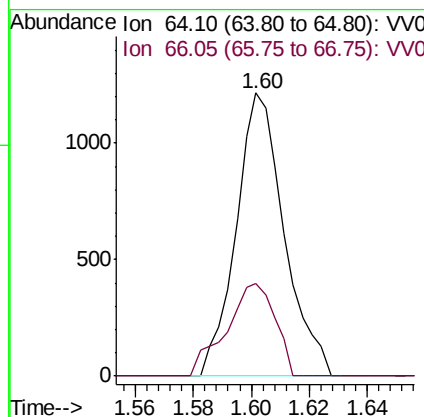
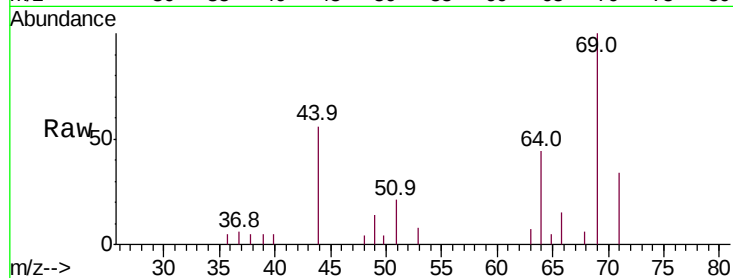
#8
Chloroethane
Concen: 0.314 ug/L
RT: 1.60 min Scan# 159
Delta R.T. -0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Instrument :
MSVOA_V
ClientSampled :
MDL05

Tot Ion: 64 Resp: 1398
Ion Ratio Lower Upper
64 100
66 32.6 21.7 40.3

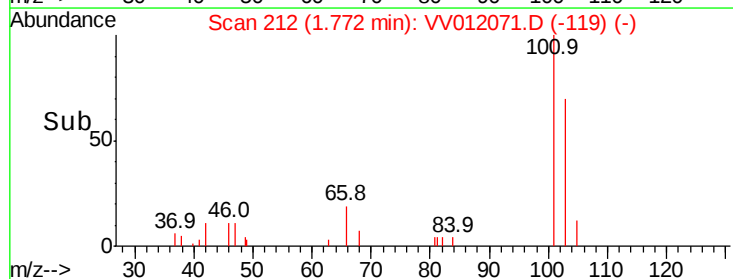
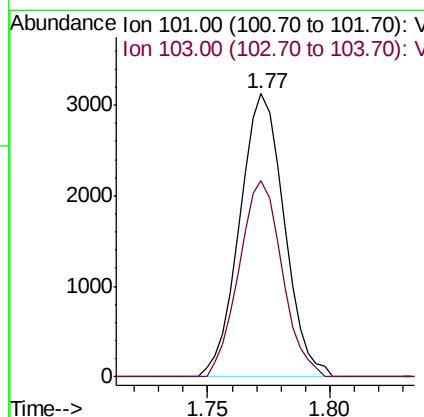
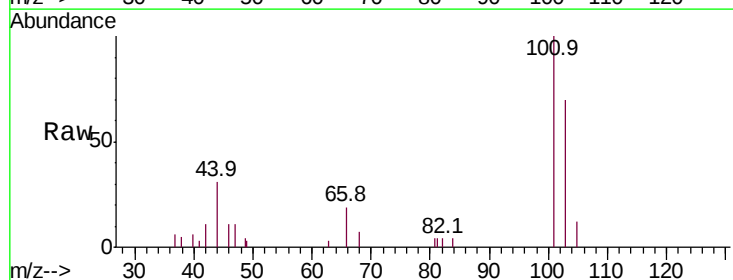
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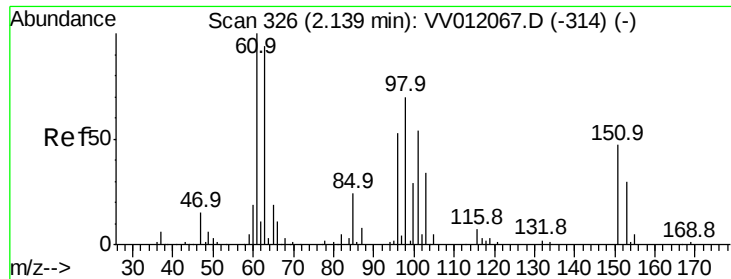
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#9
Trichlorofluoromethane
Concen: 0.282 ug/L
RT: 1.77 min Scan# 212
Delta R.T. -0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Tgt Ion: 101 Resp: 3960
Ion Ratio Lower Upper
101 100
103 67.0 52.6 79.0





#10

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

Concen: 0.353 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

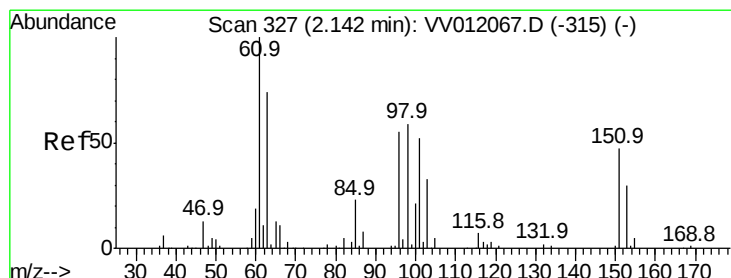
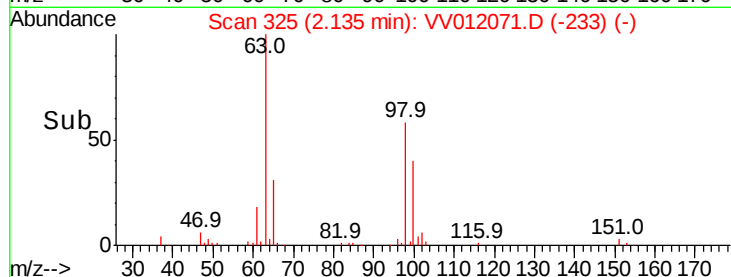
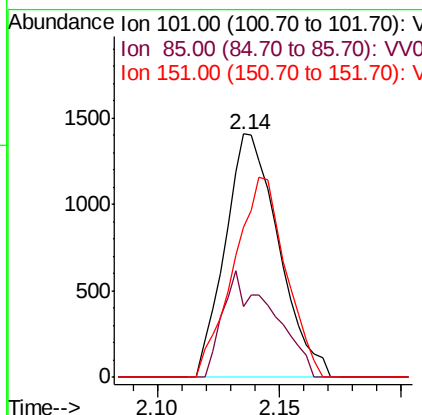
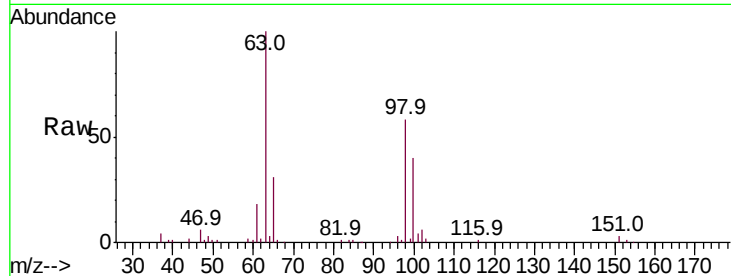
ClientSampleId :

MDL05

Tot Ion:	101	Resp:	2149
Ion Ratio	Lower	Upper	
101	100		
85	40.9	37.8	56.8
151	79.7	71.4	107.2

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#12

1,1-Dichloroethene

Concen: 0.355 ug/L

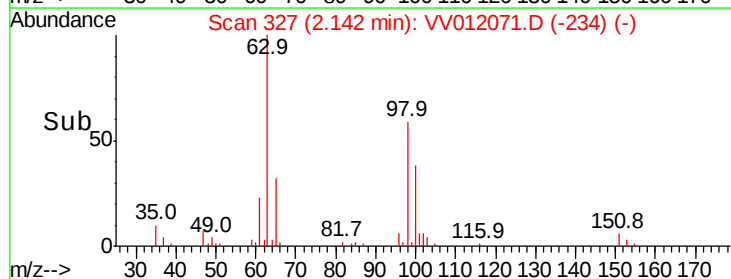
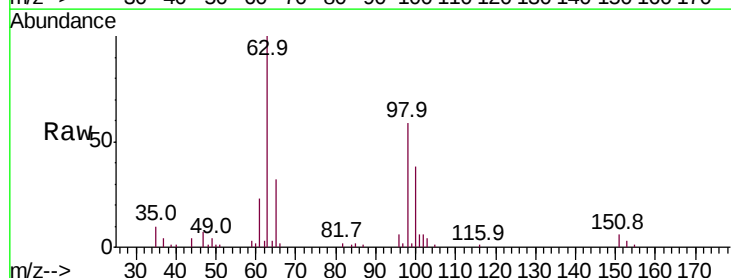
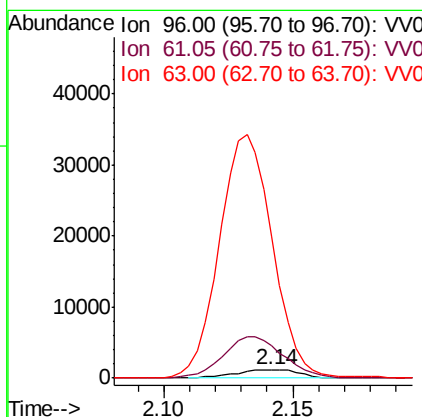
RT: 2.14 min Scan# 327

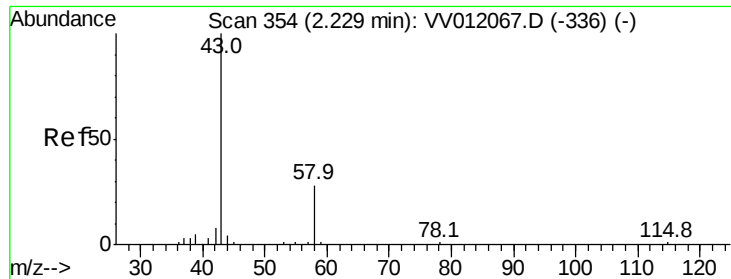
Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Tgt Ion:	96	Resp:	2000
Ion Ratio	Lower	Upper	
96	100		
61	376.1	127.8	237.4#
63	1648.0	92.7	172.3#





#13

Acetone

Concen: 3.154 ug/L m

RT: 2.24 min Scan# 359

Delta R.T. 0.02 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 43 Resp: 2740

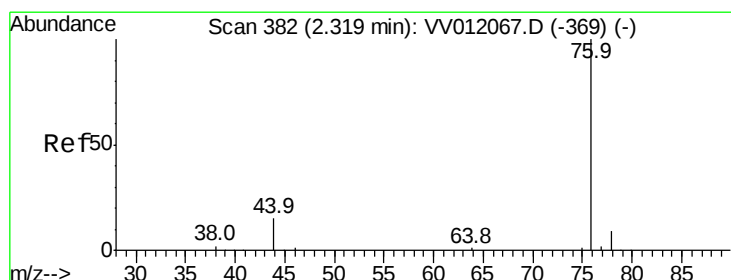
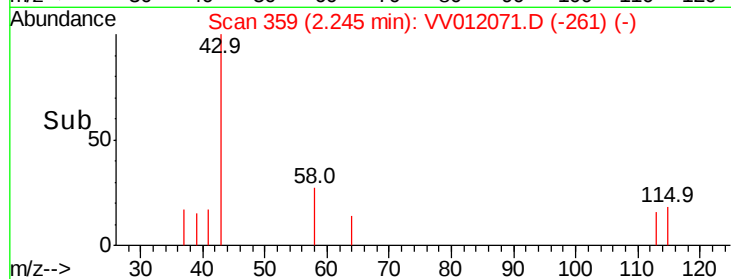
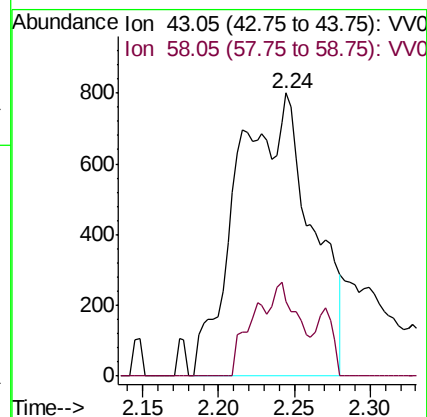
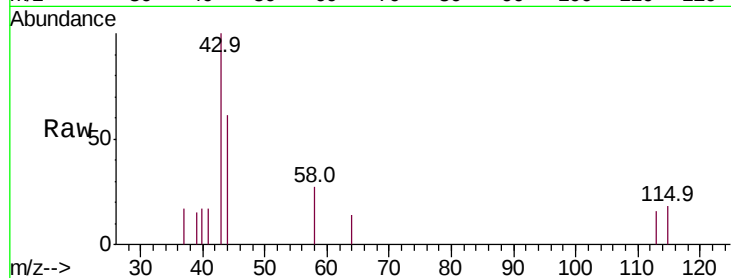
Ion Ratio Lower Upper

43 100

58 7.8 0.0 51.6

Manual Integrations
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#14

Carbon disulfide

Concen: 0.270 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV012071.D

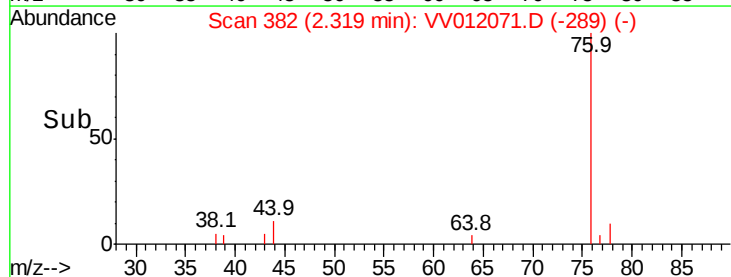
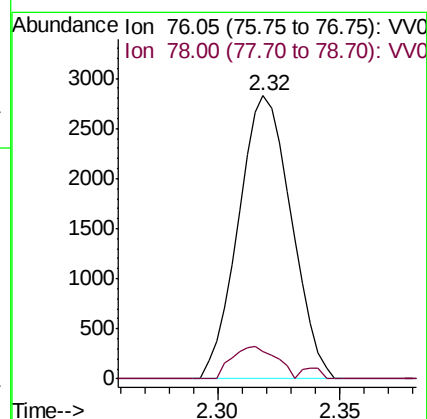
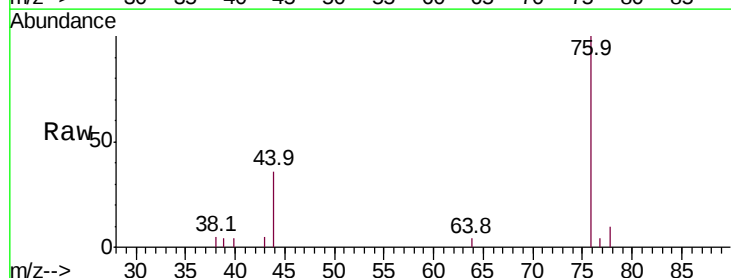
Acq: 30 Jul 2019 12:30

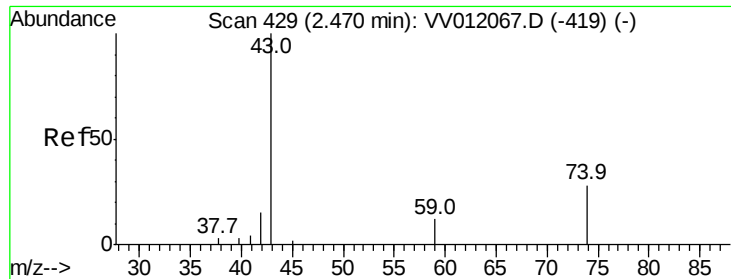
Tgt Ion: 76 Resp: 4248

Ion Ratio Lower Upper

76 100

78 9.8 7.2 10.8





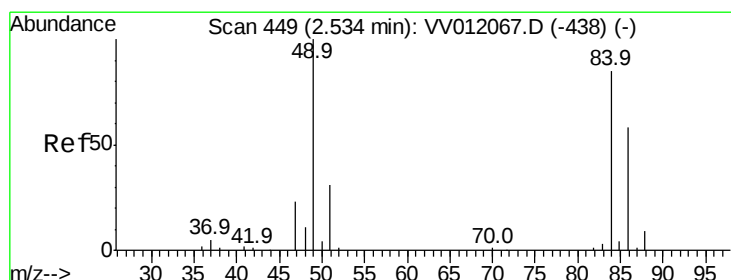
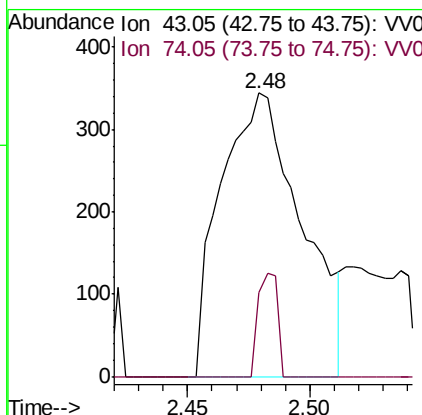
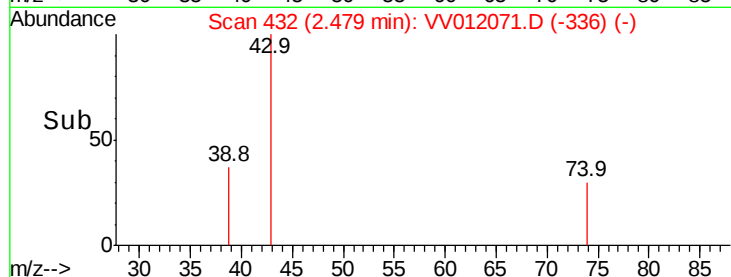
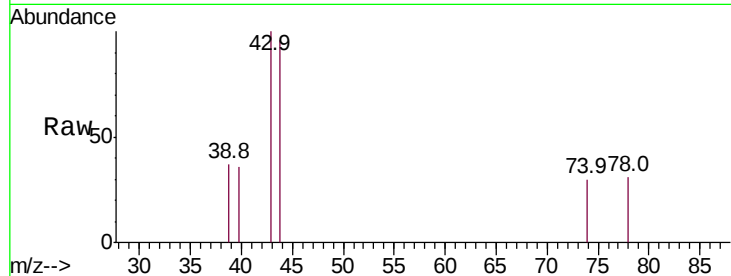
#15
Methvl Acetate
Concen: 0.444 ug/L
RT: 2.48 min Scan# 432
Delta R.T. 0.01 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion: 43 Resp: 793
Ion Ratio Lower Upper
43 100
74 8.4 24.4 36.6#

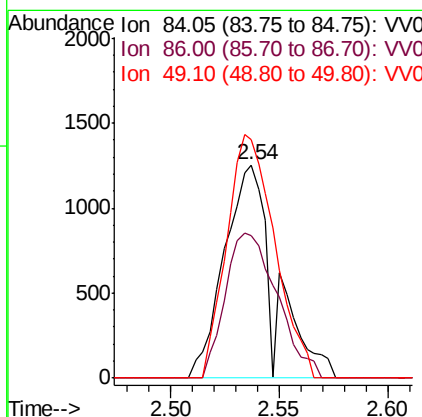
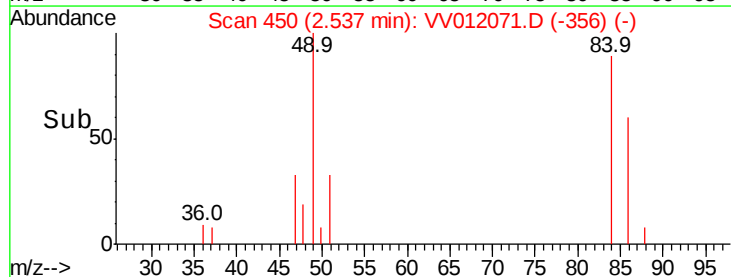
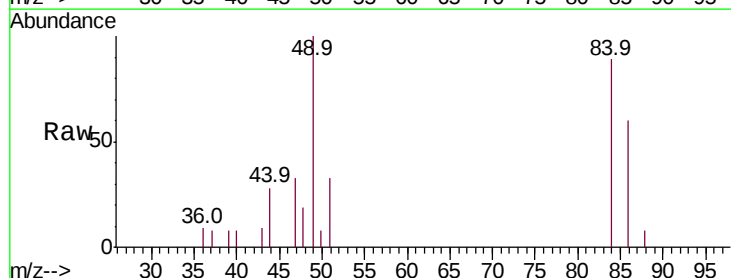
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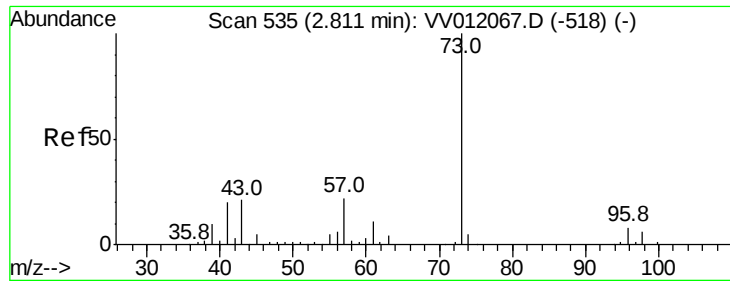
MMdadoda
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#16
Methylene chloride
Concen: 0.349 ug/L m
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Tgt Ion: 84 Resp: 2020
Ion Ratio Lower Upper
84 100
86 67.1 44.9 83.3
49 111.8 78.6 146.0





#17

Methvl tert-butvl Ether

Concen: 0.289 ug/L

RT: 2.81 min Scan# 535

Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :
MSVOA_V

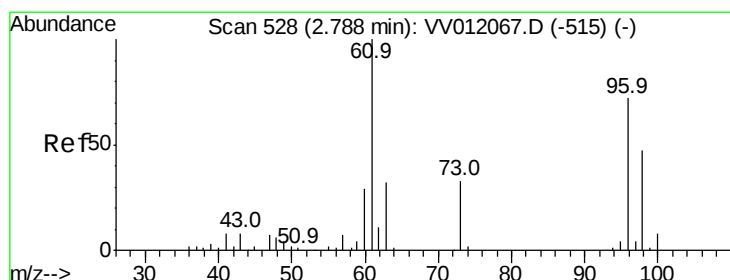
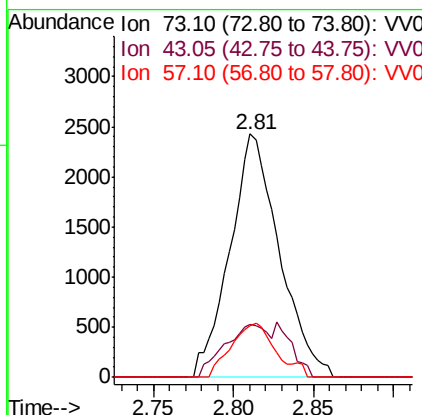
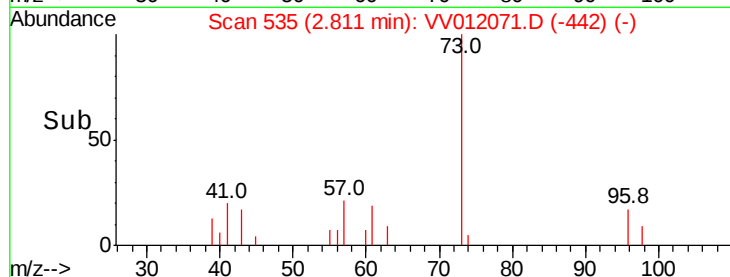
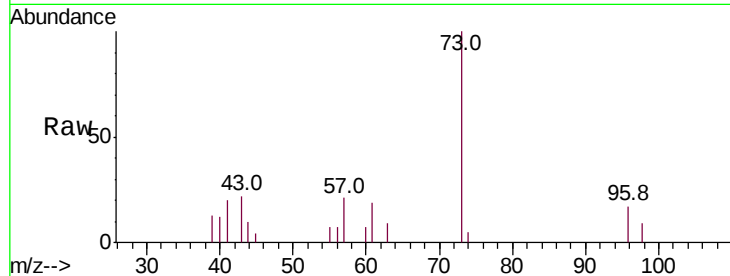
ClientSampleId :
MDL05

Tot Ion: 73 Resp: 5128

Ion	Ratio	Lower	Upper
73	100		
43	19.4	17.6	26.4
57	20.1	17.0	25.6

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#18

trans-1,2-Dichloroethene

Concen: 0.298 ug/L

RT: 2.79 min Scan# 529

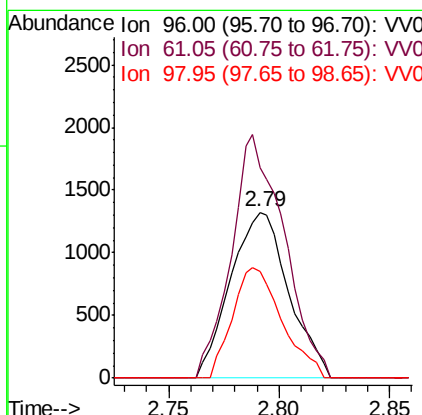
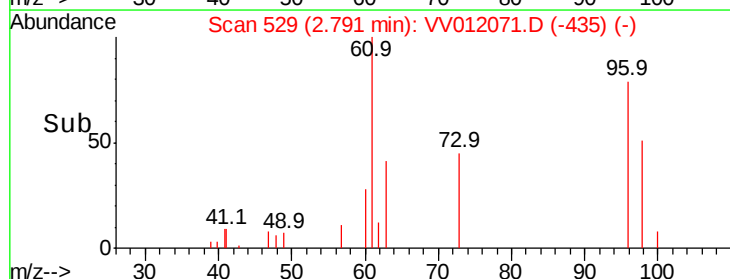
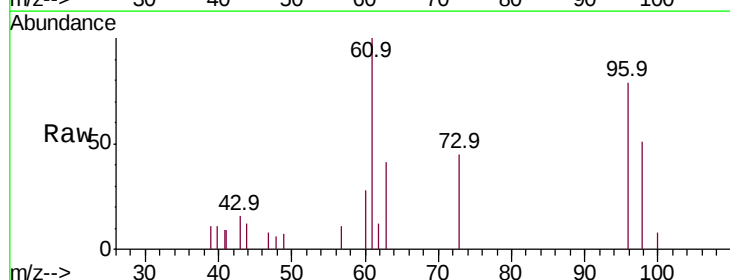
Delta R.T. 0.00 min

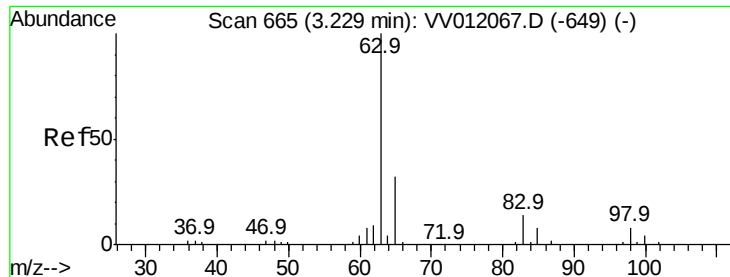
Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Tgt Ion: 96 Resp: 2422

Ion	Ratio	Lower	Upper
96	100		
61	127.1	97.2	180.6
98	64.3	45.0	83.6





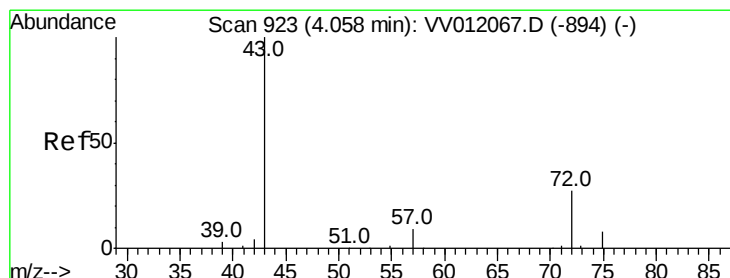
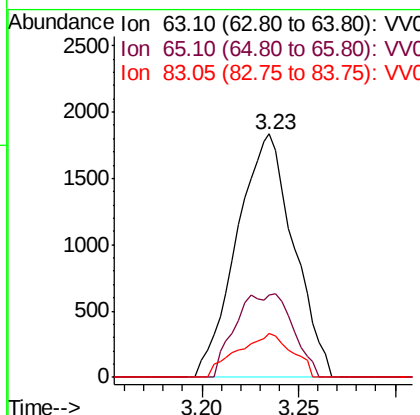
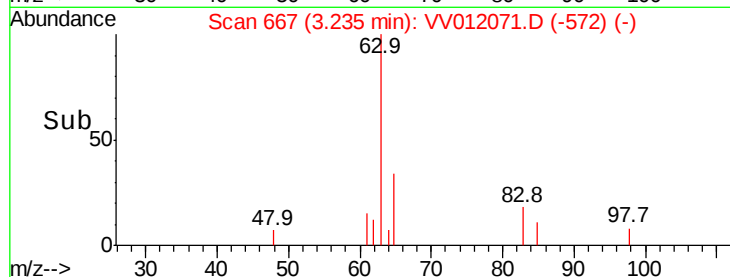
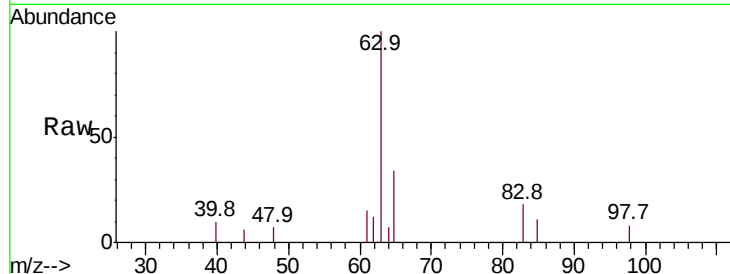
#19
 1,1-Dichloroethane
 Concen: 0.257 ug/L
 RT: 3.23 min Scan# 667
 Delta R.T. 0.01 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion:	63	Resp:	3741
Ion	Ratio	Lower	Upper
63	100		
65	33.8	23.0	42.6
83	17.9	9.7	17.9

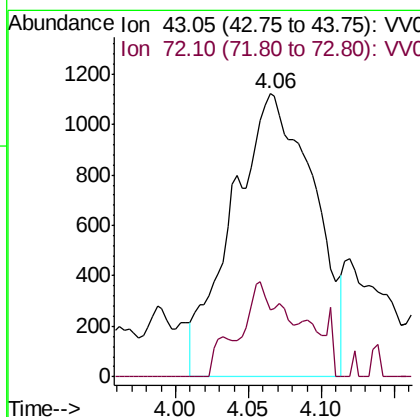
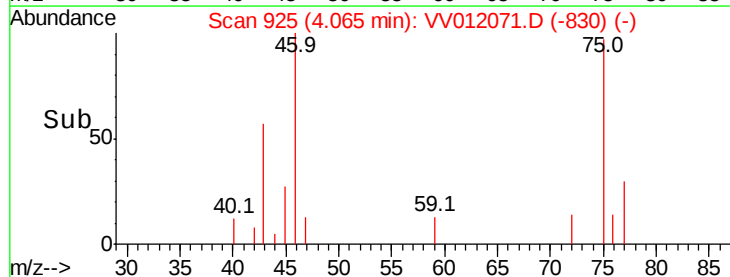
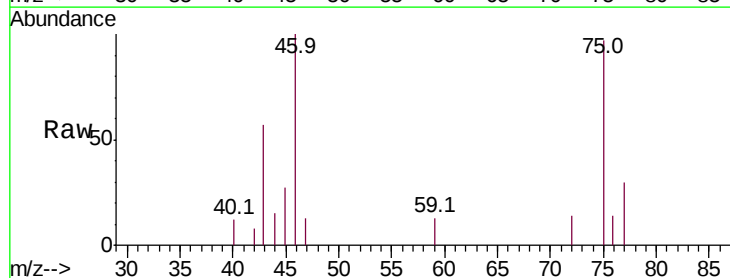
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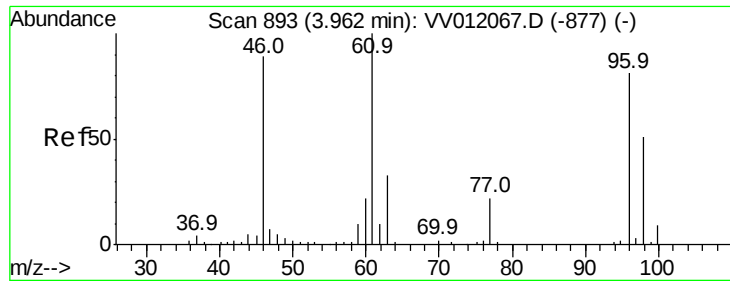
MMDadoda
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#21
 2-Butanone
 Concen: 2.545 ug/L m
 RT: 4.06 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Tgt Ion:	43	Resp:	4362
Ion	Ratio	Lower	Upper
43	100		
72	1.0	13.4	40.2#





#22

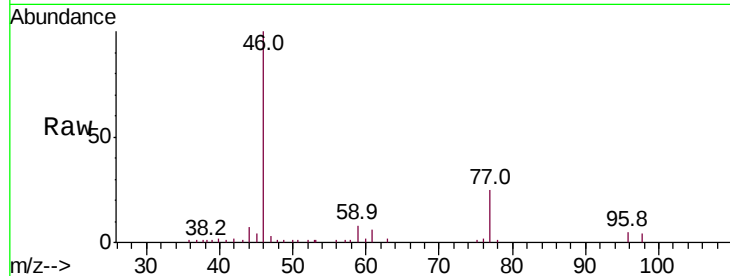
cis-1,2-Dichloroethene
Concen: 0.288 ug/L m
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Instrument :
MSVOA_V
ClientSampleId :
MDL05

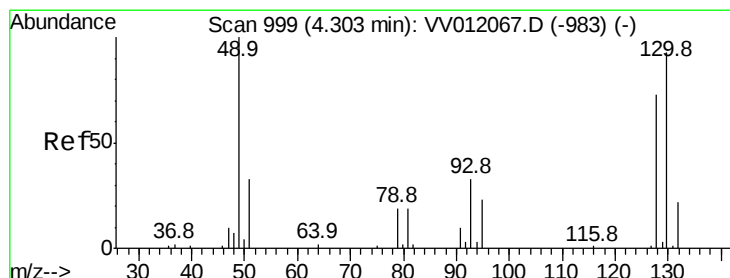
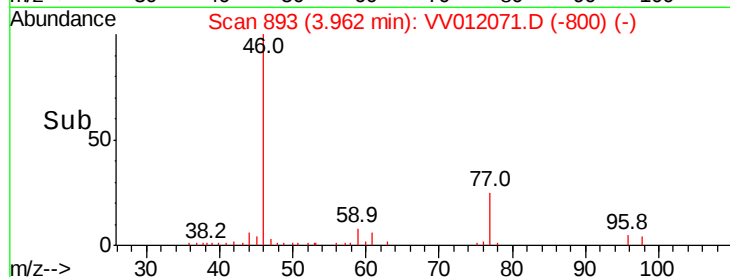
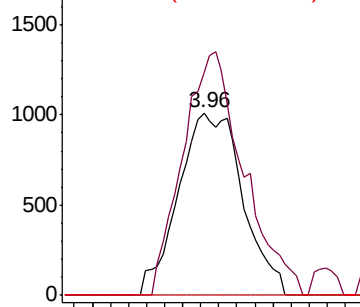
Tot Ion	Ratio	Lower	Upper
96	100		
61	122.3	90.0	167.2
68	0.0	0.0	0.0

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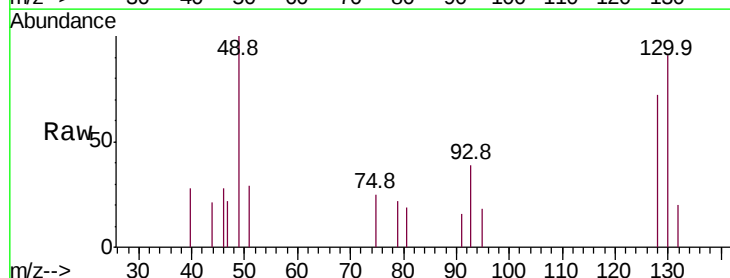
Abundance Ion 96.00 (95.70 to 96.70): VV012067.D (-877) (-)



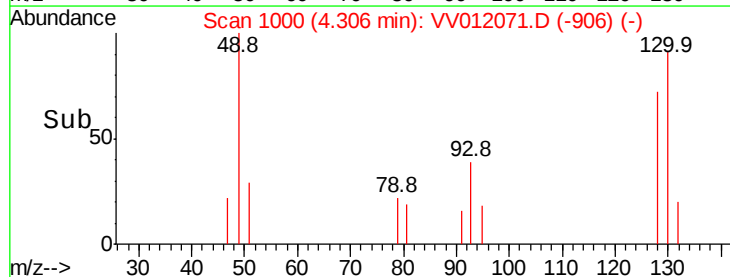
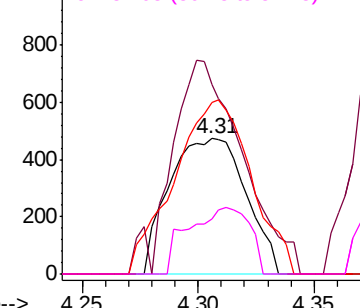
#23

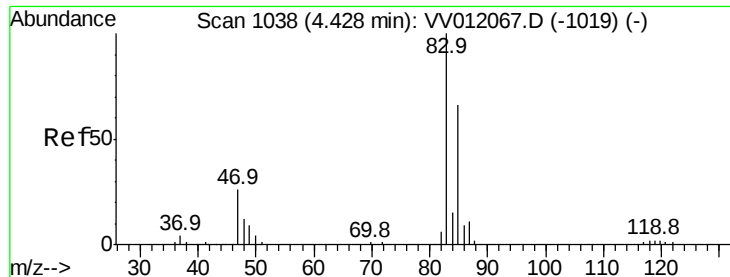
Bromochloromethane
Concen: 0.287 ug/L
RT: 4.31 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Tgt Ion	Ratio	Lower	Upper
128	100		
49	139.5	105.1	195.1
130	126.4	88.9	165.1
51	40.5	36.2	54.2



Abundance Ion 127.90 (127.60 to 128.60): VV012067.D (-983) (-)





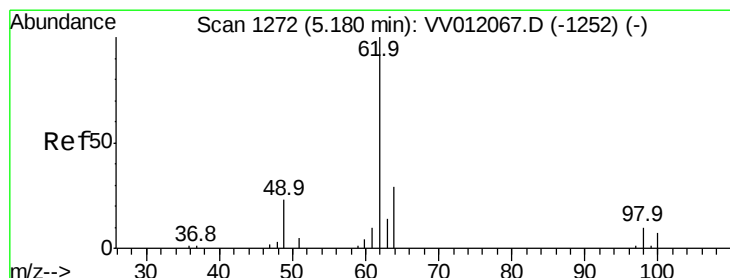
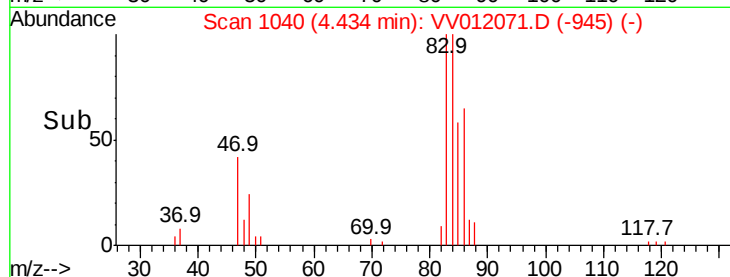
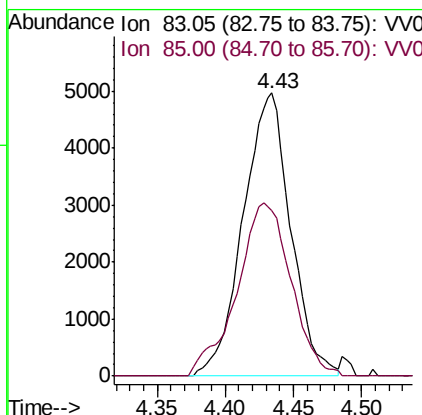
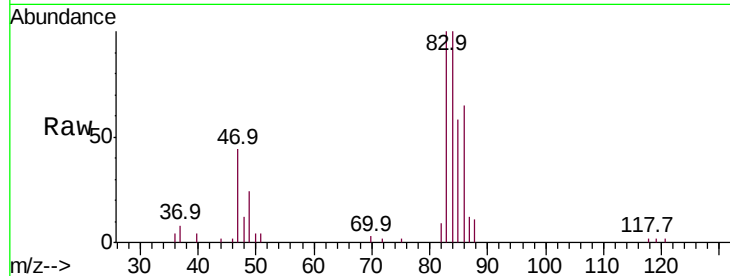
#25
Chloroform
Concen: 0.661 ug/L
RT: 4.43 min Scan# 1040
Delta R.T. 0.01 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Instrument :
MSVOA_V
ClientSampled :
MDL05

Tot Ion: 83 Resp: 12041
Ion Ratio Lower Upper
83 100
85 58.4 45.2 84.0

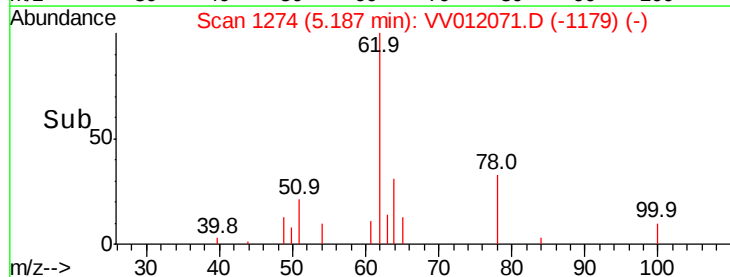
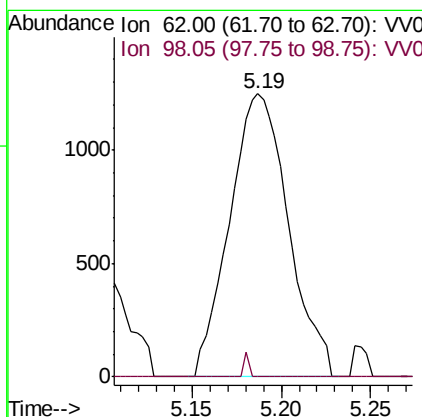
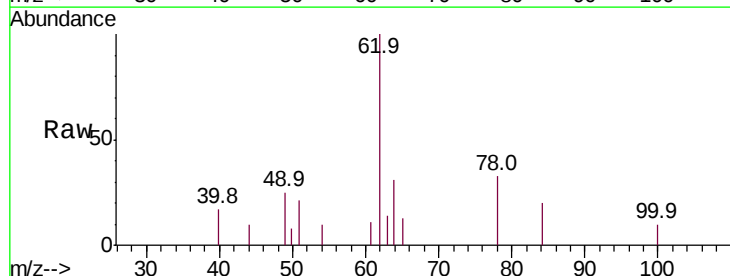
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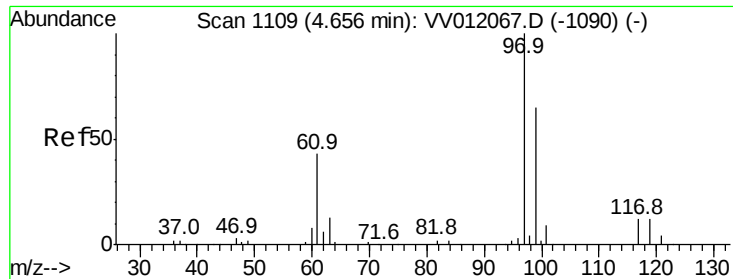
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#27
1,2-Dichloroethane
Concen: 0.285 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Tgt Ion: 62 Resp: 2871
Ion Ratio Lower Upper
62 100
98 0.0 7.0 10.6#





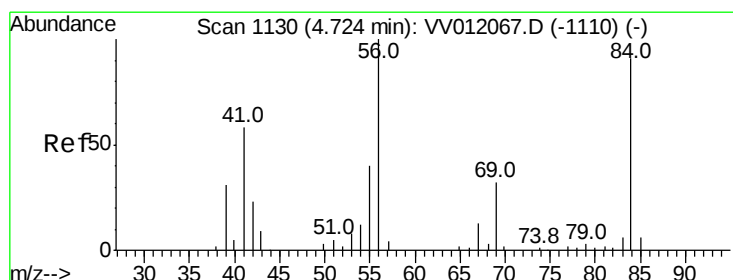
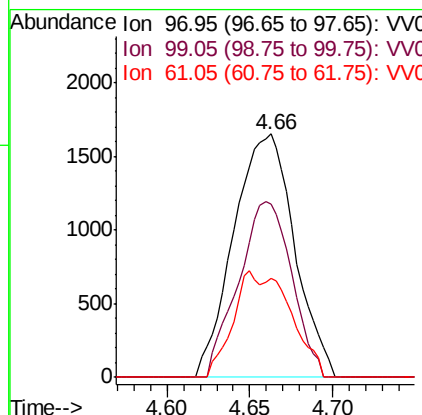
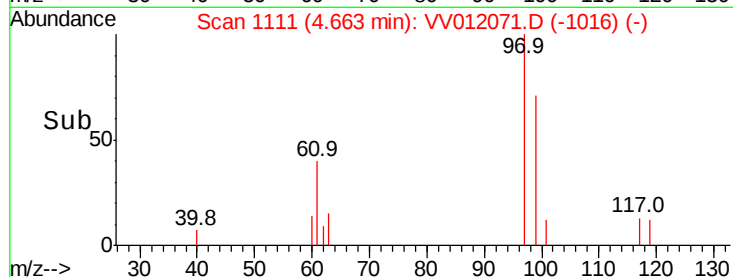
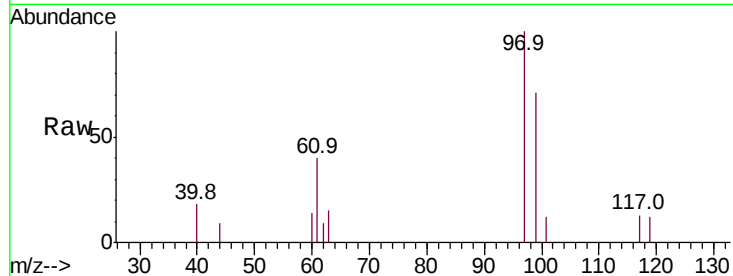
#29
1,1,1-Trichloroethane
Concen: 0.284 ug/L
RT: 4.66 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.8	77.8
61	19.8	34.5	51.7#

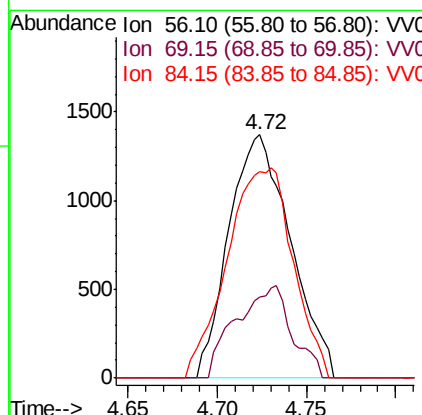
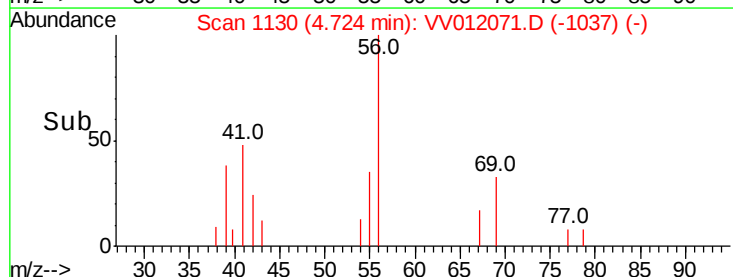
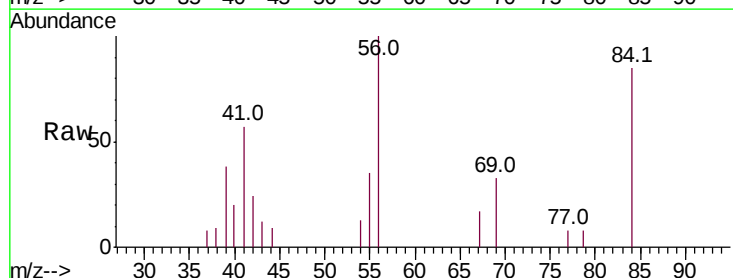
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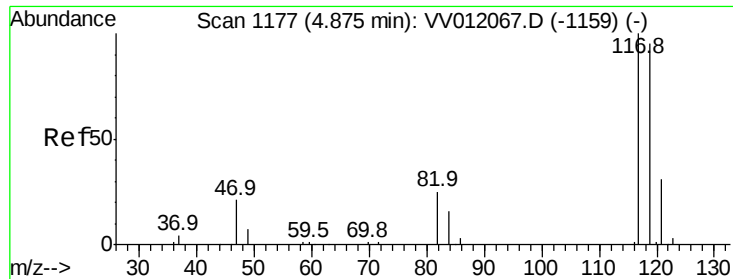
MMdadoda
8/1/2019 3:18:26 PM



#30
Cyclohexane
Concen: 0.260 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Tgt Ion	Ratio	Lower	Upper
56	100		
69	34.4	24.8	37.2
84	92.3	75.4	113.2





#31

Carbon tetrachloride

Concen: 0.267 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion:117 Resp: 3562

Ion Ratio Lower Upper

117 100

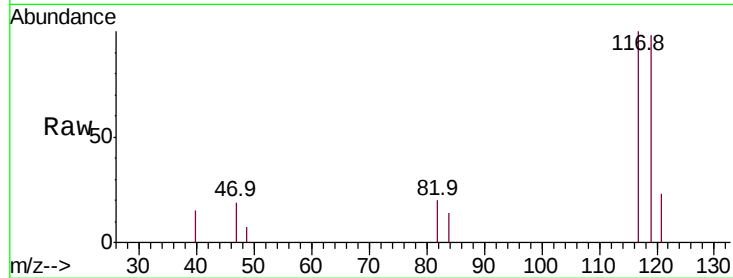
119 94.6 77.7 116.5

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MMdadoda

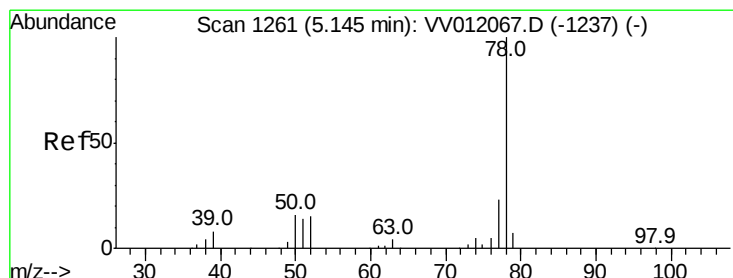
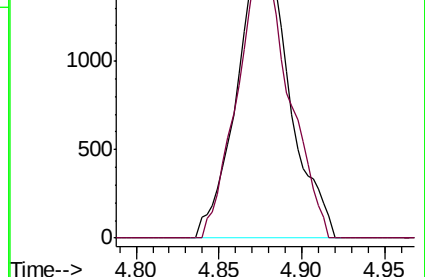
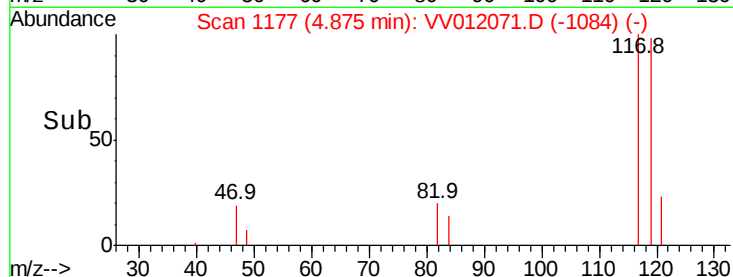
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87



#33

Benzene

Concen: 0.284 ug/L

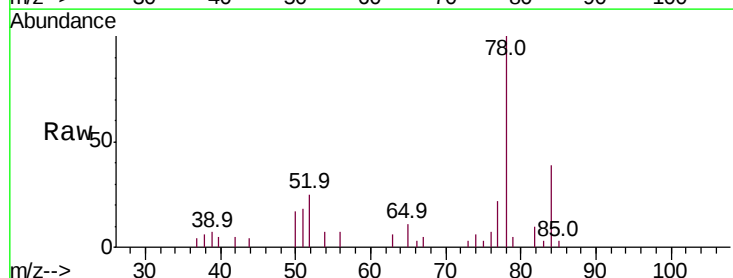
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VV012071.D

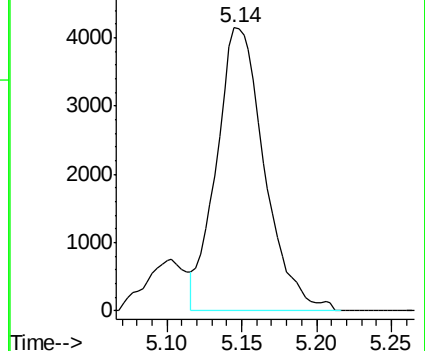
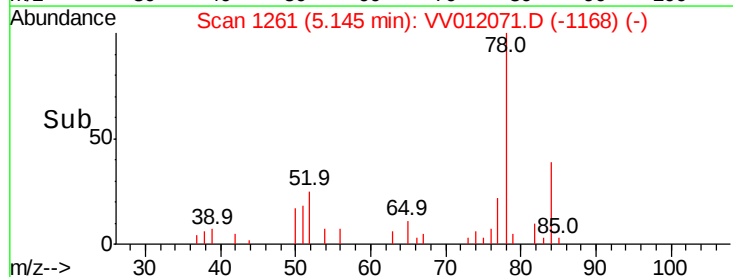
Acq: 30 Jul 2019 12:30

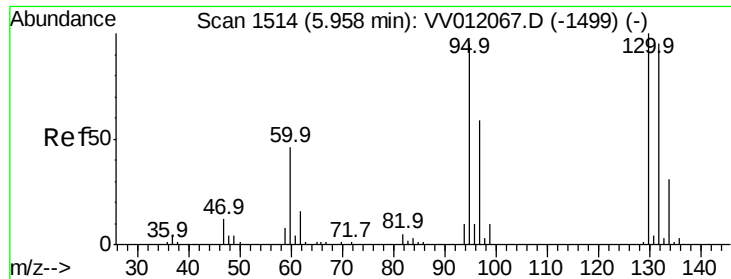
Tgt Ion: 78 Resp: 9263



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.14





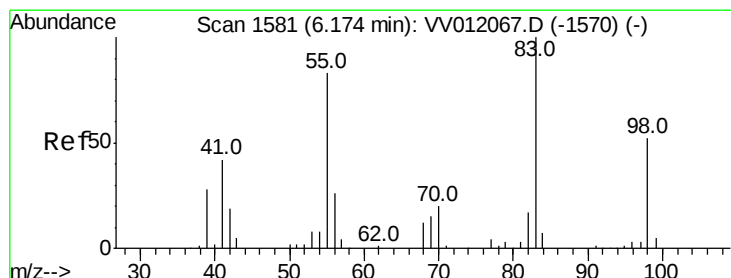
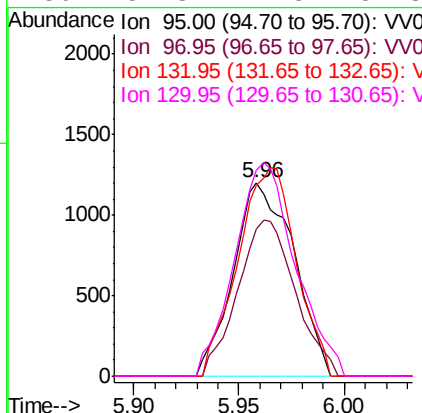
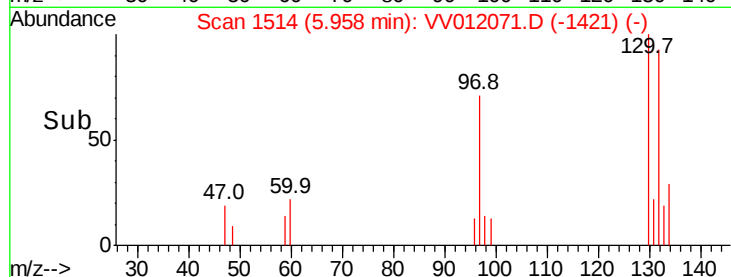
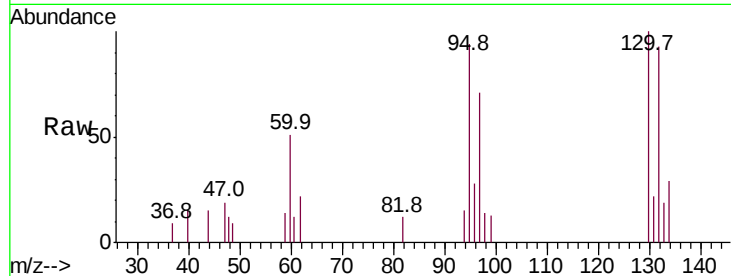
#34
 Trichloroethene
 Concen: 0.257 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion: 95 Resp: 2392
 Ion Ratio Lower Upper
 95 100
 97 58.7 42.8 79.6
 132 76.2 70.8 131.6
 130 82.3 72.3 134.3

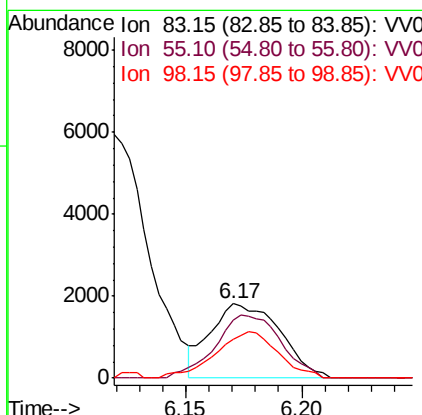
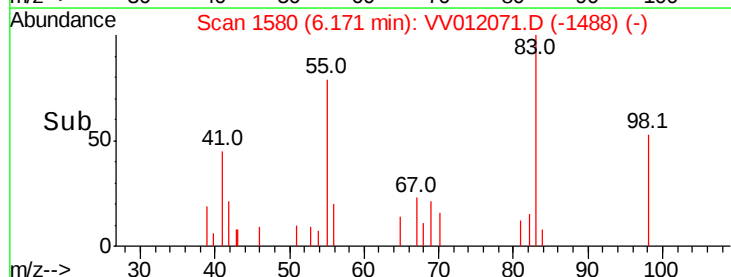
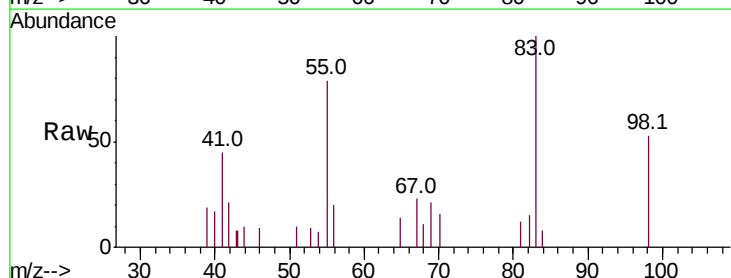
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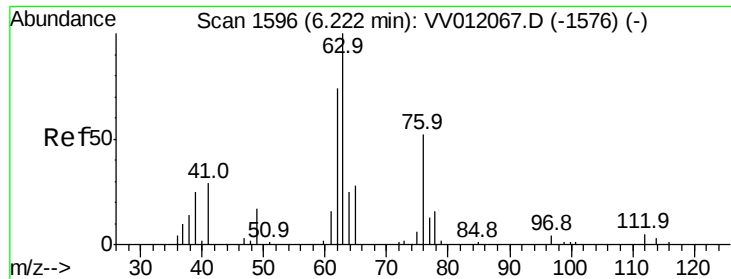
MMdadoda
 8/1/2019 3:18:26 PM



#35
 Methylcyclohexane
 Concen: 0.260 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Tgt Ion: 83 Resp: 3787
 Ion Ratio Lower Upper
 83 100
 55 79.6 60.1 90.1
 98 55.8 40.2 60.4





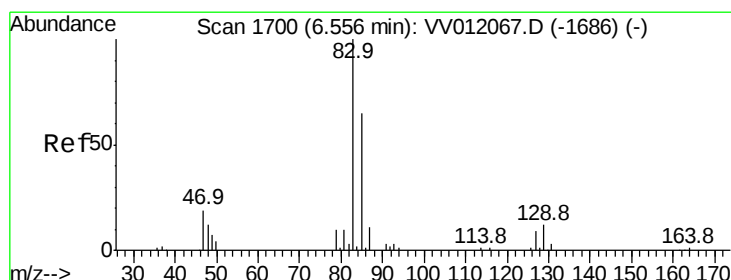
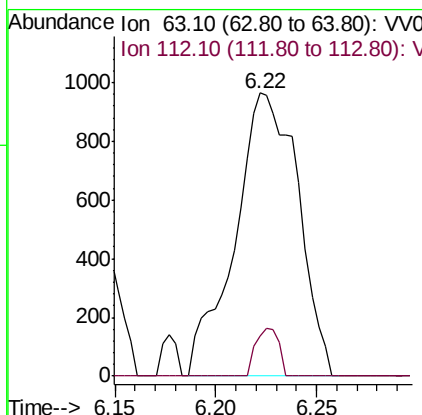
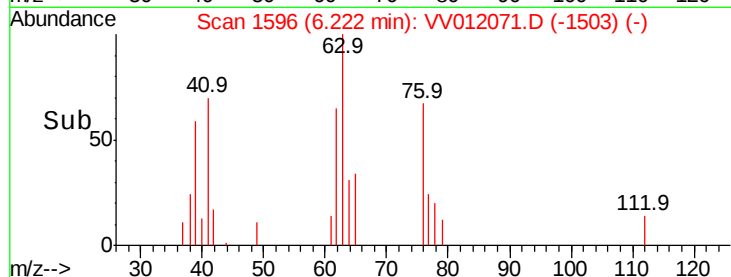
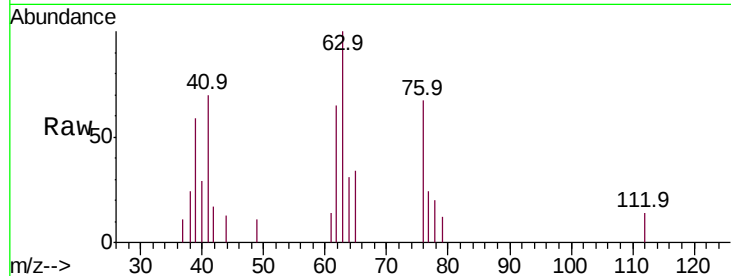
#37
 1,2-Dichloropropane
 Concen: 0.280 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Instrument :
 MSVOA_V
 ClientSampled :
 MDL05

Tot Ion: 63 Resp: 2112
 Ion Ratio Lower Upper
 63 100
 112 6.2 3.8 5.6#

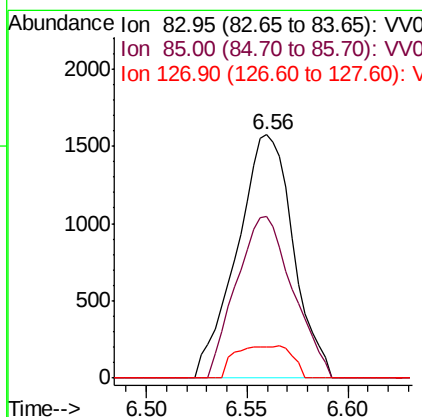
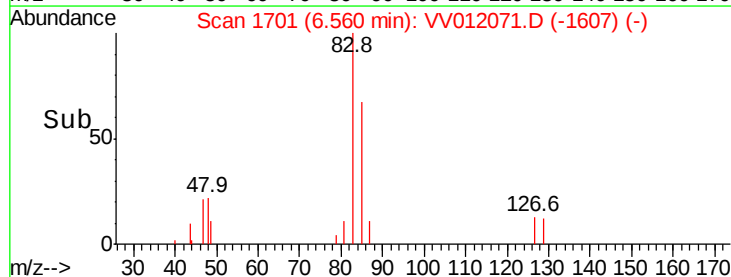
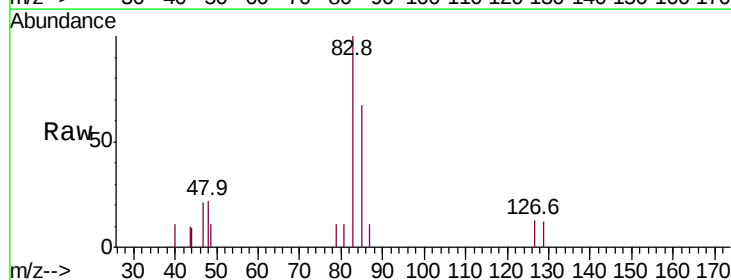
Manual Integrations
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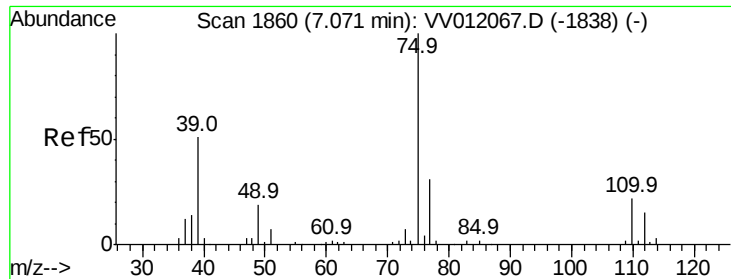
MMdadoda
 8/1/2019 3:18:26 PM



#38
 Bromodichloromethane
 Concen: 0.287 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. 0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Tgt Ion: 83 Resp: 3064
 Ion Ratio Lower Upper
 83 100
 85 66.6 43.9 81.5
 127 12.6 6.9 10.3#





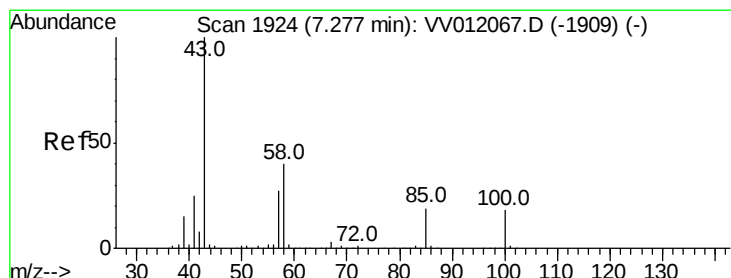
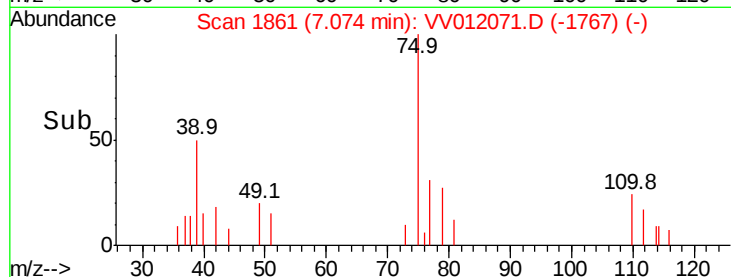
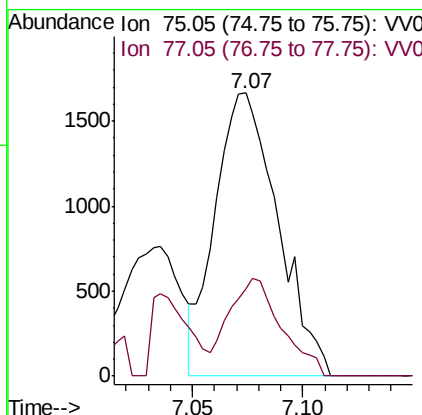
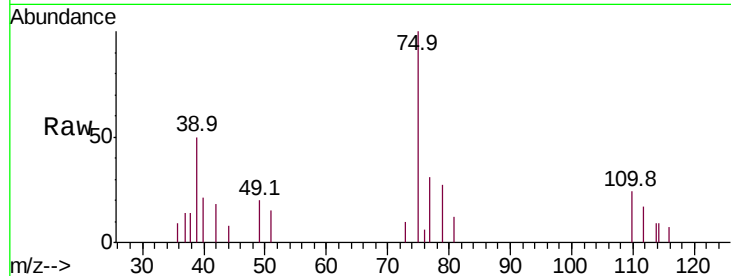
#39
 cis-1,3-Dichloropropene
 Concen: 0.278 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Instrument :
 MSVOA_V
 ClientSampled :
 MDL05

Tot Ion: 75 Resp: 3296
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.4 41.6

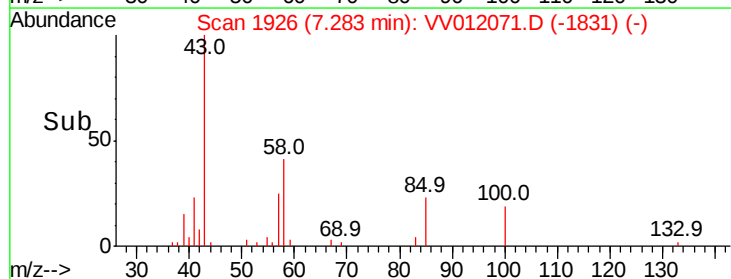
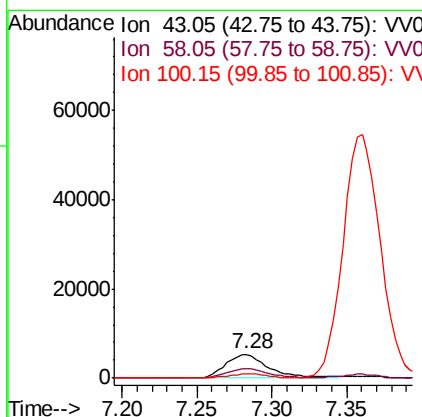
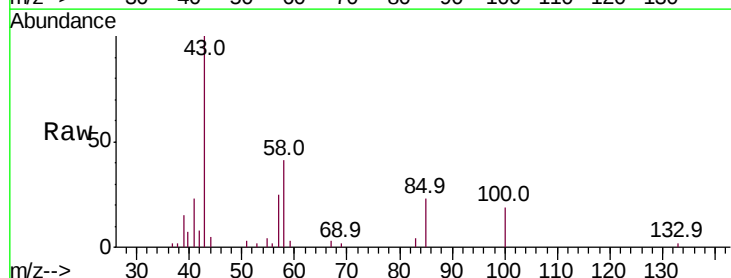
Manual Integrations
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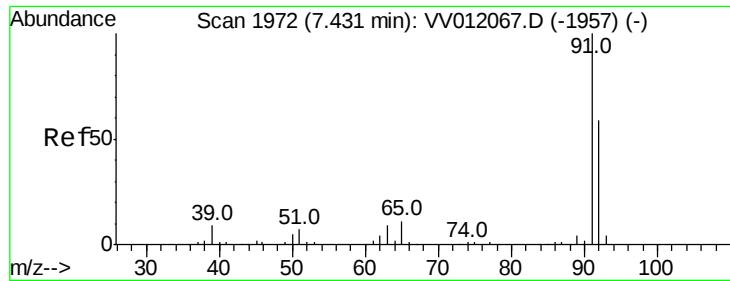
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#40
 4-Methyl-2-pentanone
 Concen: 2.530 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.01 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Tgt Ion: 43 Resp: 10776
 Ion Ratio Lower Upper
 43 100
 58 39.9 31.9 47.9
 100 0.0 14.0 21.0#





#42

Toluene

Concen: 0.263 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 91 Resp: 9556

Ion Ratio Lower Upper

91 100

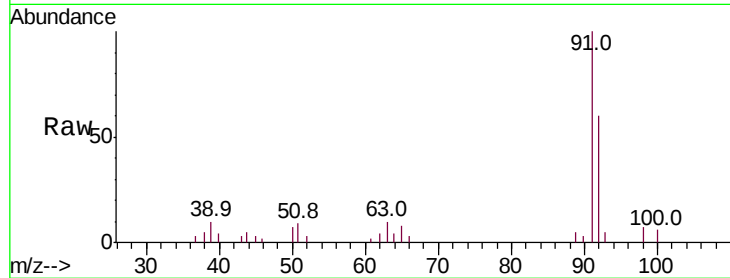
92 60.0 41.3 76.7

Manual Integrations

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Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

6000

5000

4000

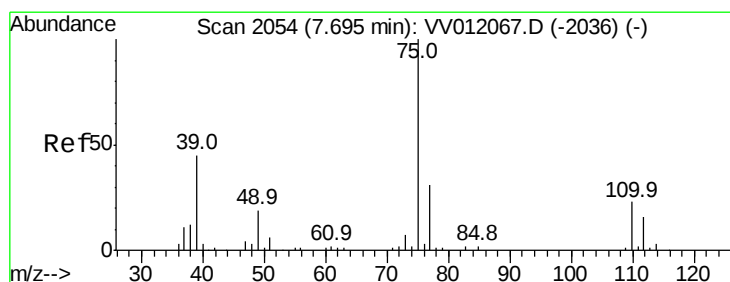
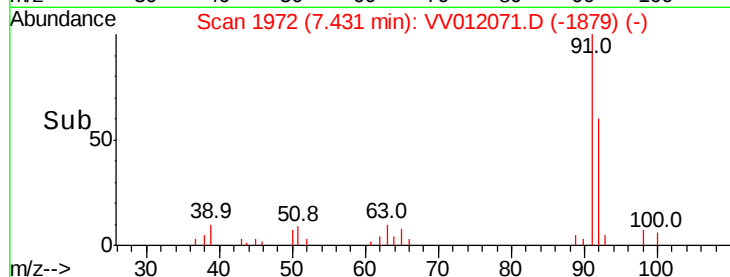
3000

2000

1000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.265 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV012071.D

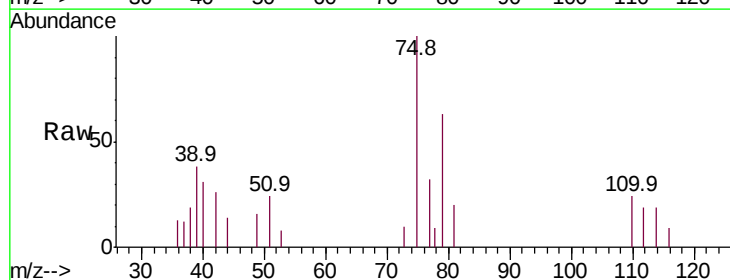
Acq: 30 Jul 2019 12:30

Tgt Ion: 75 Resp: 2535

Ion Ratio Lower Upper

75 100

77 40.9 21.6 40.0#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

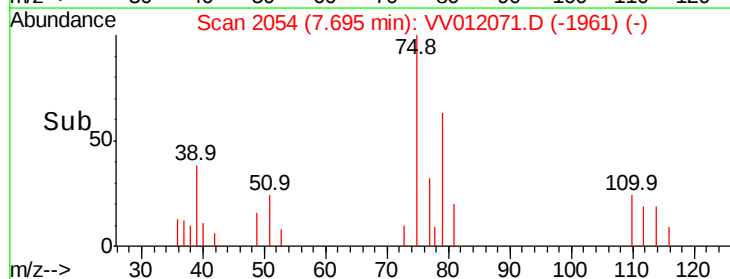
1500

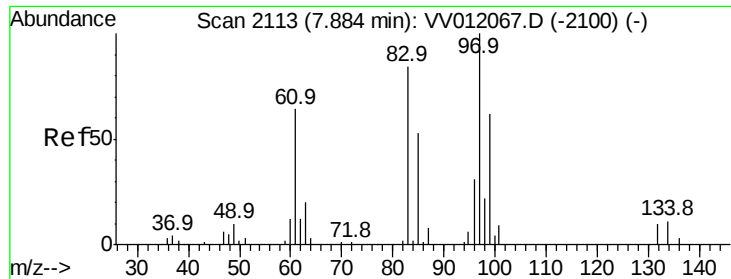
1000

500

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 0.293 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 97 Resp: 1686

Ion Ratio Lower Upper

97 100

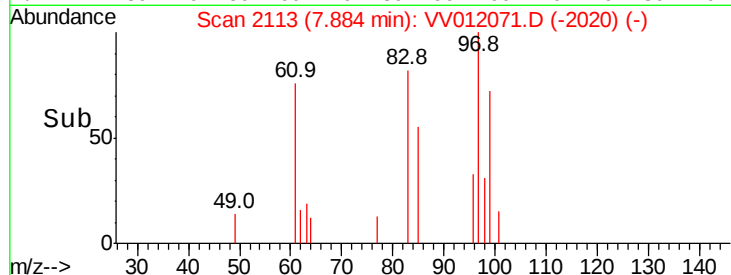
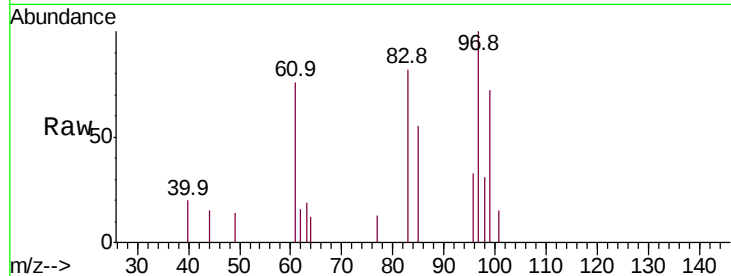
99 71.9 42.0 78.0

83 81.6 57.6 107.0

85 54.8 34.6 64.2

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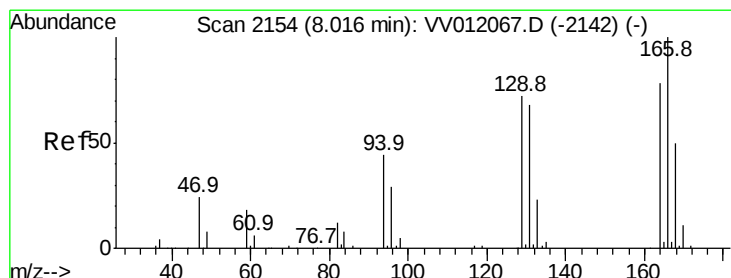
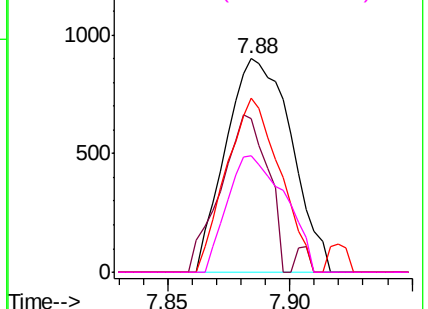


Abundance Ion 96.95 (96.65 to 97.65): VV012067.D (-2100) (-)

Ion 99.05 (98.75 to 99.75): VV012067.D (-2100) (-)

Ion 82.95 (82.65 to 83.65): VV012067.D (-2100) (-)

Ion 85.00 (84.70 to 85.70): VV012067.D (-2100) (-)



#47

Tetrachloroethene

Concen: 0.260 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Tgt Ion: 164 Resp: 2115

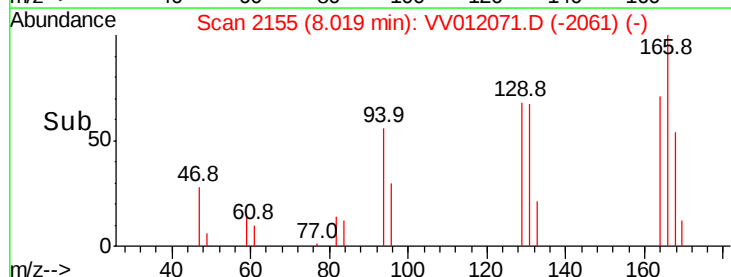
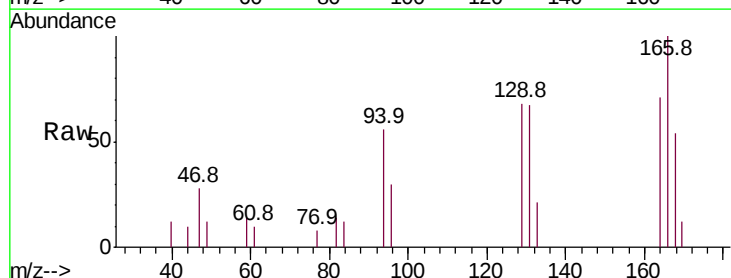
Ion Ratio Lower Upper

164 100

129 95.9 61.9 114.9

131 94.1 59.4 110.4

166 140.3 89.6 166.4

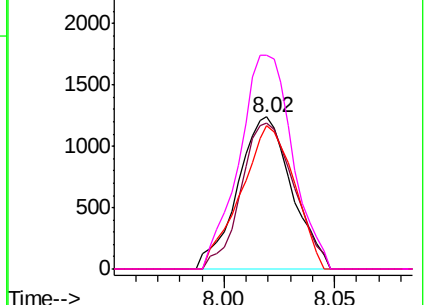


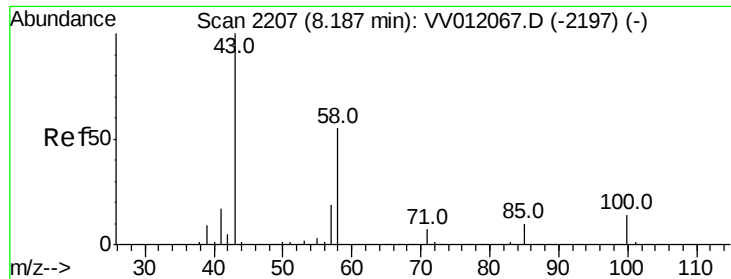
Abundance Ion 163.90 (163.60 to 164.60): VV012067.D (-2142) (-)

Ion 128.95 (128.65 to 129.65): VV012067.D (-2142) (-)

Ion 130.95 (130.65 to 131.65): VV012067.D (-2142) (-)

Ion 165.90 (165.60 to 166.60): VV012067.D (-2142) (-)





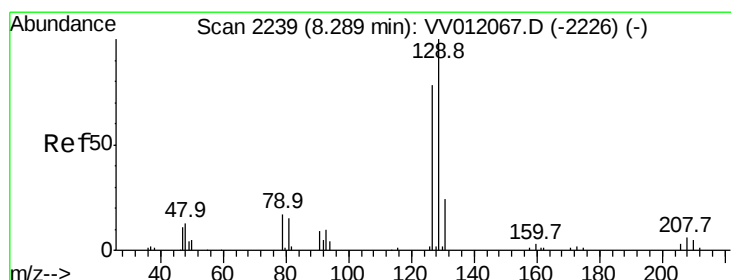
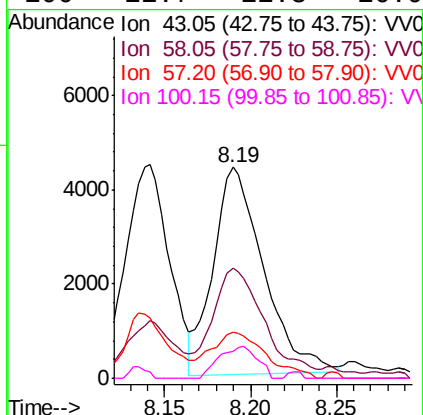
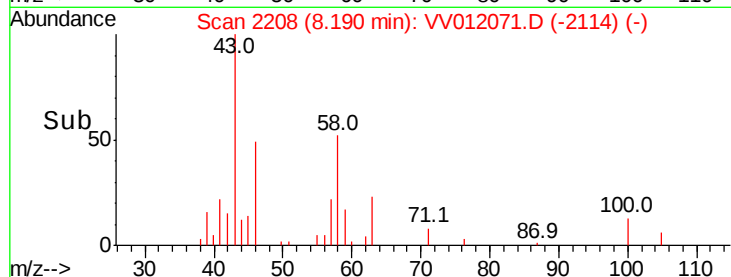
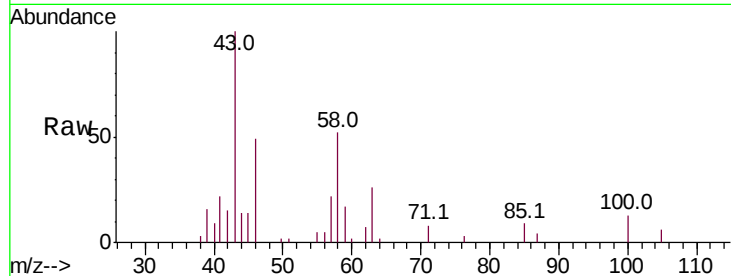
#48
2-Hexanone
Concen: 2.989 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Instrument :
MSVOA_V
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.8	44.1	66.1
57	24.2	16.1	24.1
100	11.7	11.3	16.9

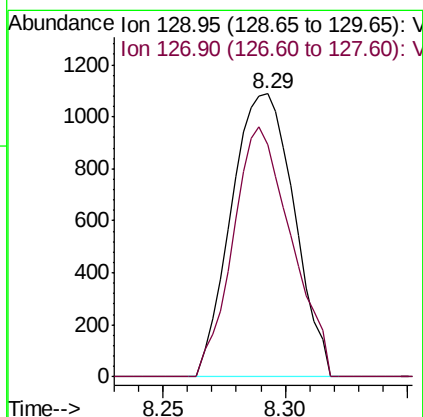
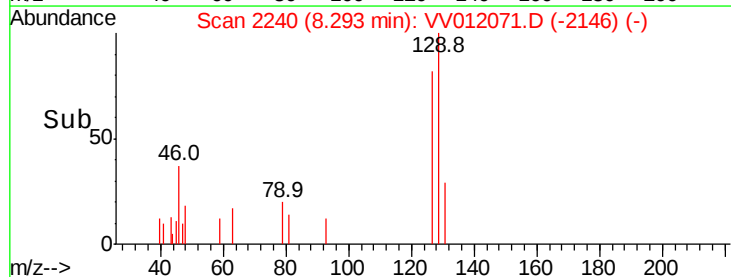
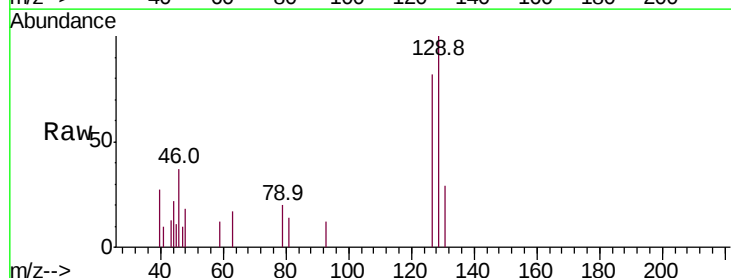
Manual Integrations
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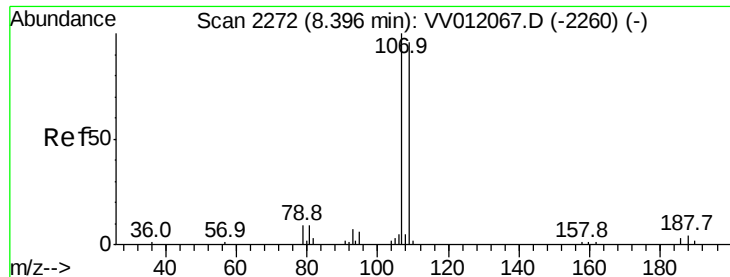
MMdadoda
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#49
Dibromochloromethane
Concen: 0.275 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Tgt Ion	Ratio	Lower	Upper
129	100		
127	82.2	55.4	102.8





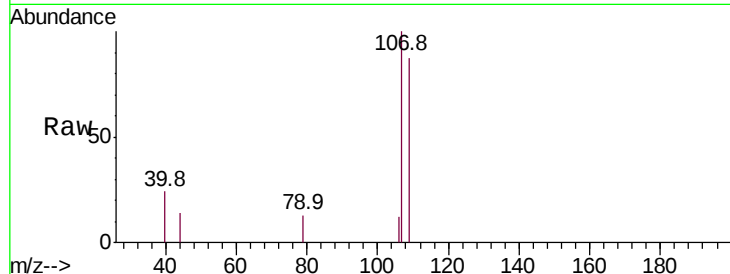
#50
1,2-Dibromoethane
Concen: 0.298 ug/L
RT: 8.40 min Scan# 2274
Delta R.T. 0.01 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Resp	Lower	Upper
107	100	1606		
109	86.6	66.3	123.1	
188	0.0	3.4	5.0#	

Manual Integrations
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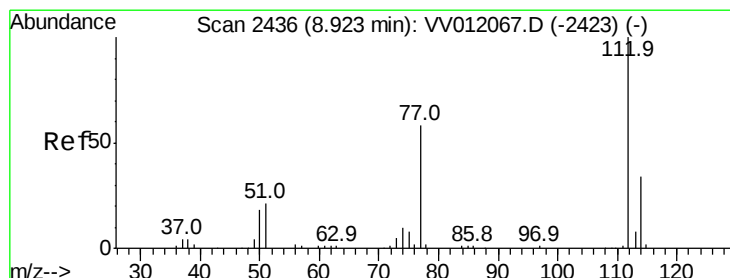
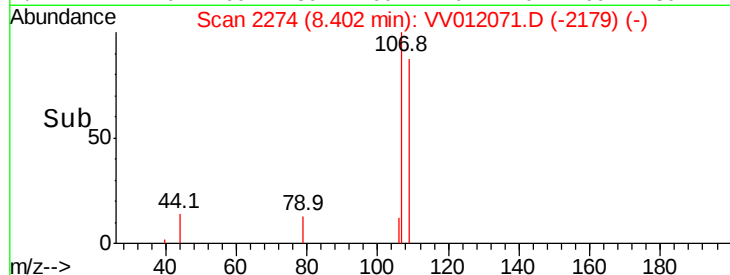
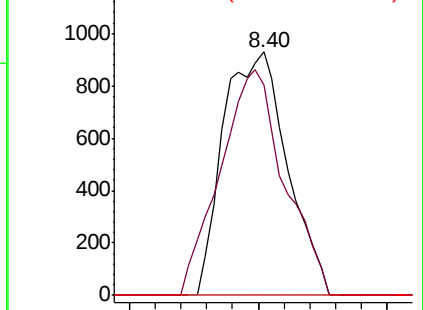


Abundance

Ion 106.95 (106.65 to 107.65): V

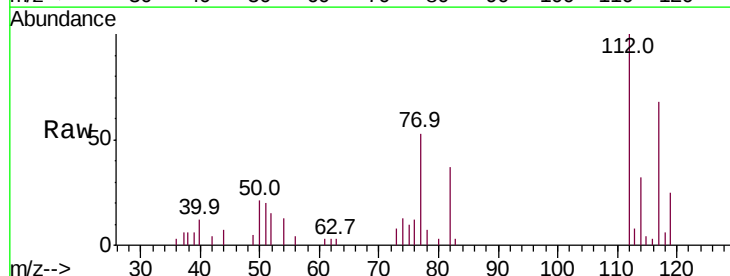
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 0.278 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	6752		
114	31.5	22.1	41.1	
77	53.0	45.9	68.9	

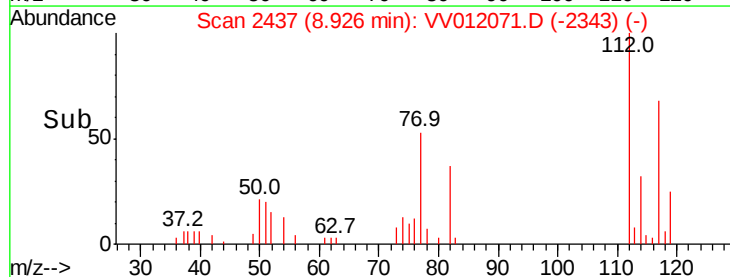
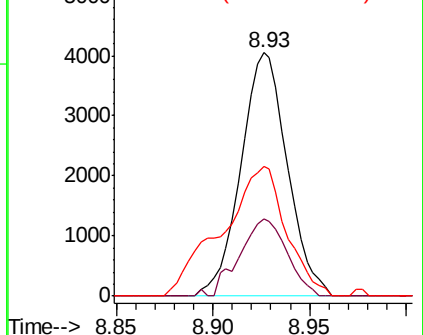


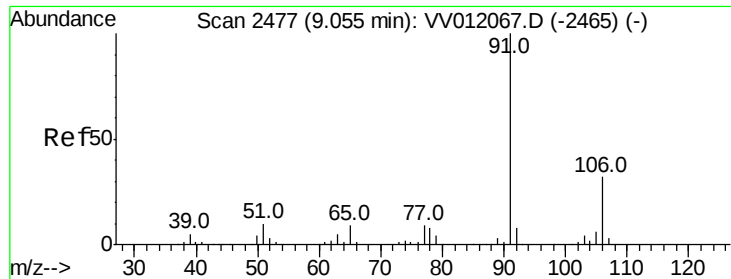
Abundance

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: 0.248 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Tot Ion: 91 Resp: 10253

Ion Ratio Lower Upper

91 100

106 30.0 21.6 40.2

Instrument :

MSVOA_V

ClientSampleId :

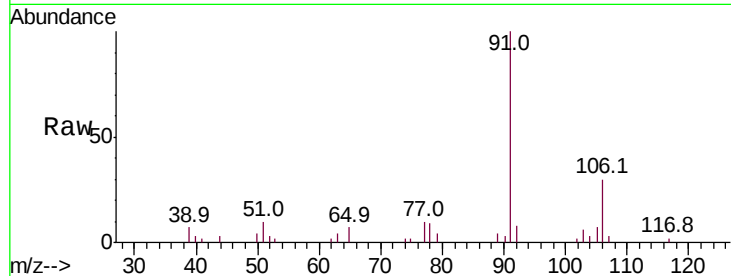
MDL05

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Abundance Ion 91.15 (90.85 to 91.85): VV012067.D (-2465) (-)

Ion 106.15 (105.85 to 106.85): VV012067.D (-2465) (-)

9.06

6000

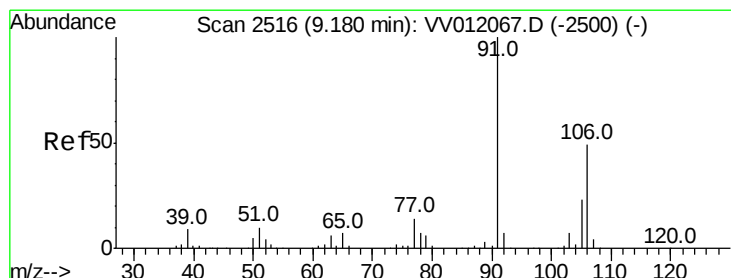
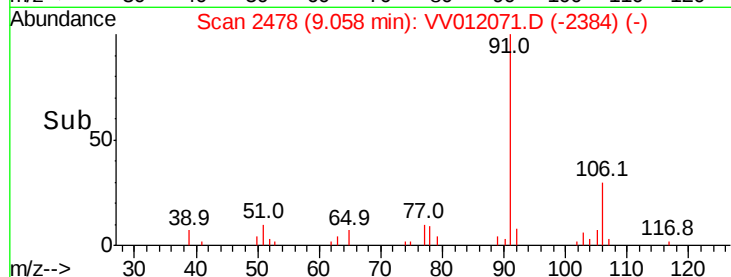
4000

2000

0

9.00 9.05 9.10

Time-->



#53

m,p-xylene

Concen: 0.270 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012071.D

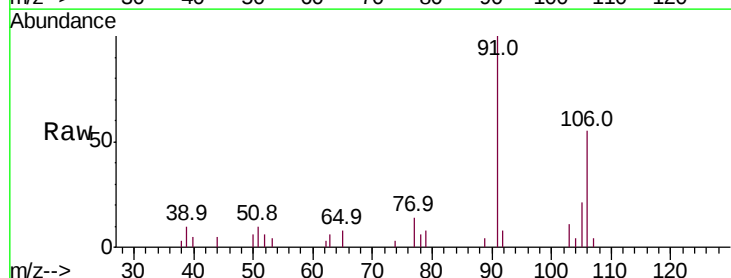
Acq: 30 Jul 2019 12:30

Tgt Ion: 106 Resp: 4263

Ion Ratio Lower Upper

106 100

91 182.7 141.6 263.0



Abundance Ion 106.15 (105.85 to 106.85): VV012067.D (-2500) (-)

Ion 91.15 (90.85 to 91.85): VV012067.D (-2500) (-)

9.18

5000

4000

3000

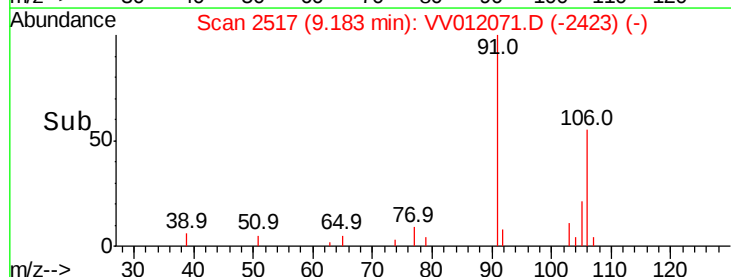
2000

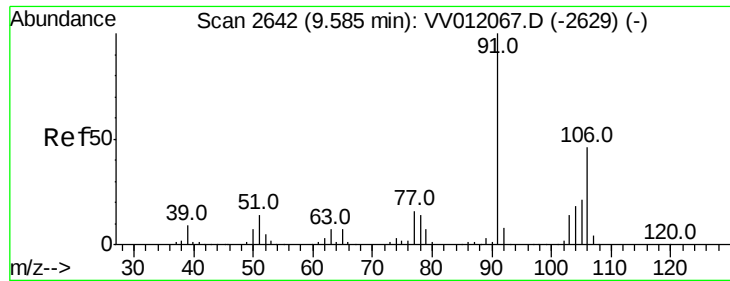
1000

0

9.15 9.20 9.25

Time-->





#54

o-xylene

Concen: 0.250 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.01 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion:106 Resp: 3722

Ion Ratio Lower Upper

106 100

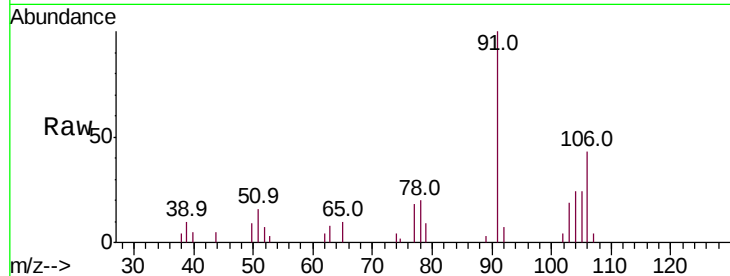
91 231.2 146.8 272.6

Manual Integrations

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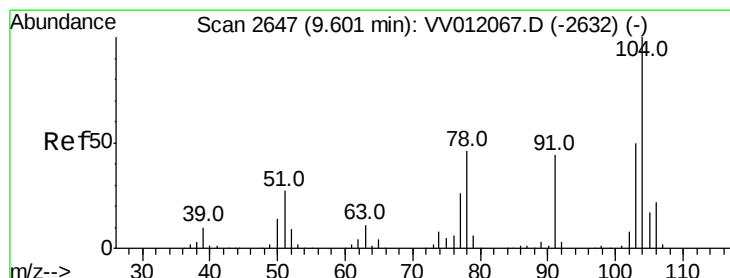
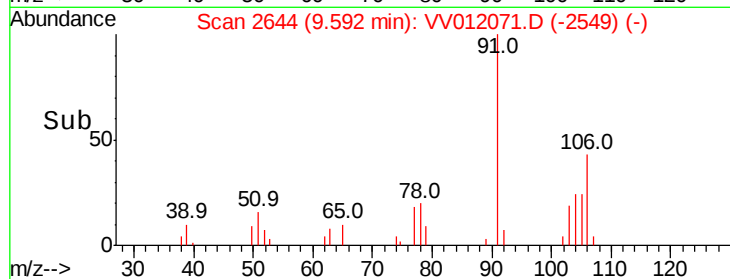
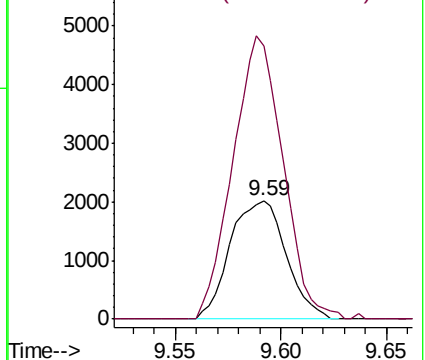
MMdadoda

8/1/2019 3:18:26 PM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.234 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.01 min

Lab File: VV012071.D

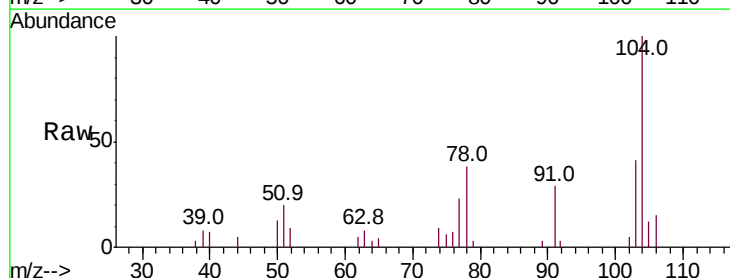
Acq: 30 Jul 2019 12:30

Tgt Ion:104 Resp: 5885

Ion Ratio Lower Upper

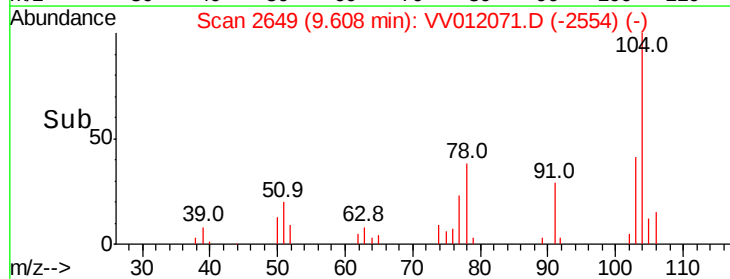
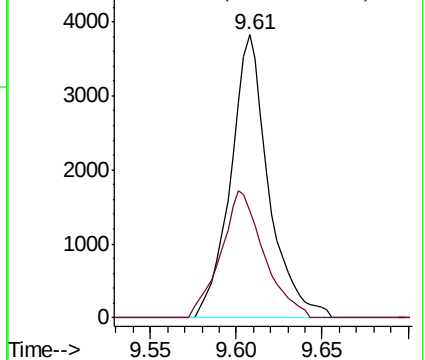
104 100

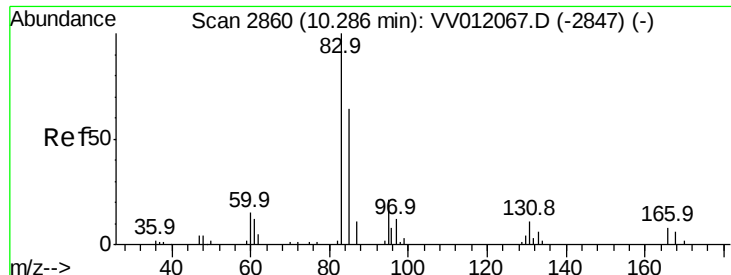
78 37.8 33.3 61.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 0.288 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

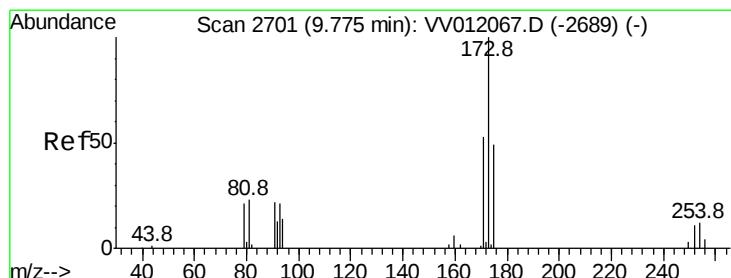
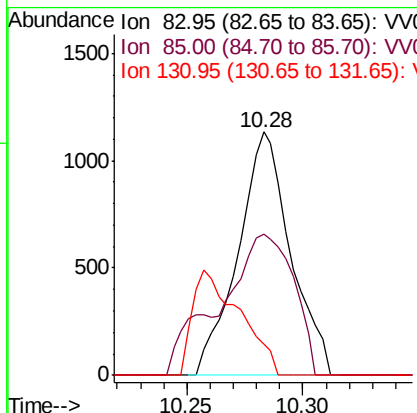
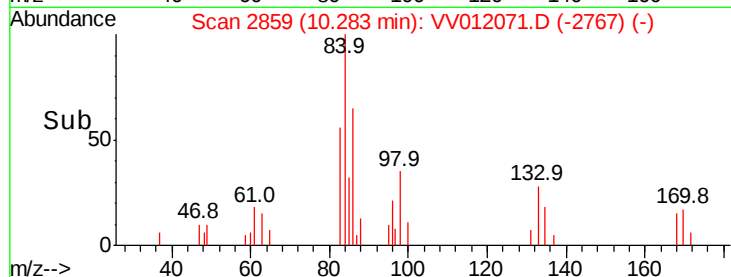
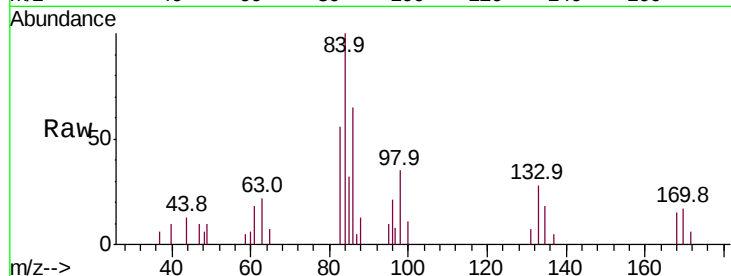
ClientSampled :

MDL05

Tot Ion:	83	Resp:	1781
Ion Ratio	Lower	Upper	
83	100		
85	58.1	44.0	81.6
131	12.6	8.3	12.5#

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#59

Bromoform

Concen: 0.273 ug/L

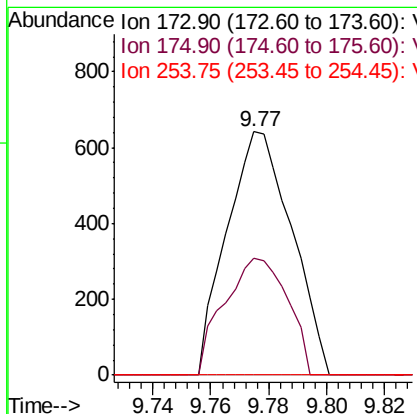
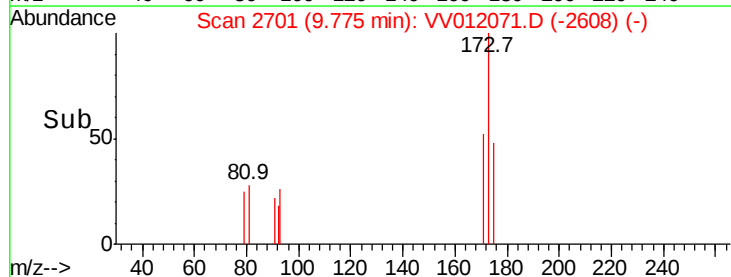
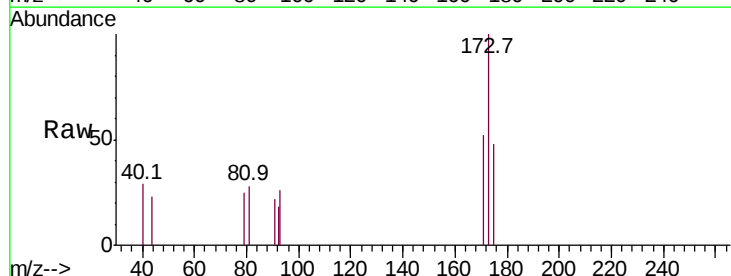
RT: 9.77 min Scan# 2701

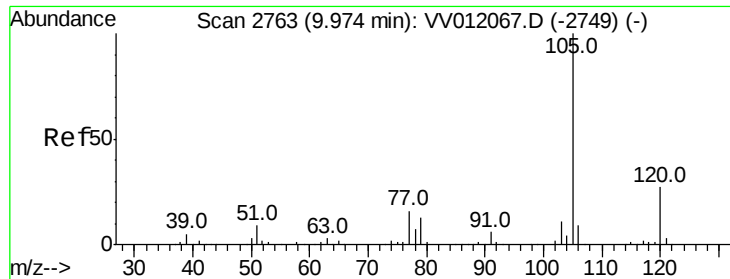
Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Tgt Ion:	173	Resp:	995
Ion Ratio	Lower	Upper	
173	100		
175	47.1	38.3	57.5
254	0.0	8.6	13.0#





#60

Isopropylbenzene

Concen: 0.258 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

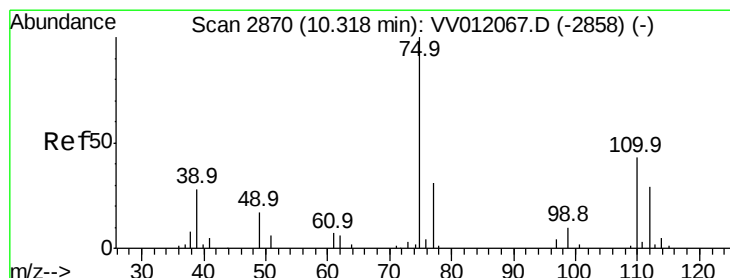
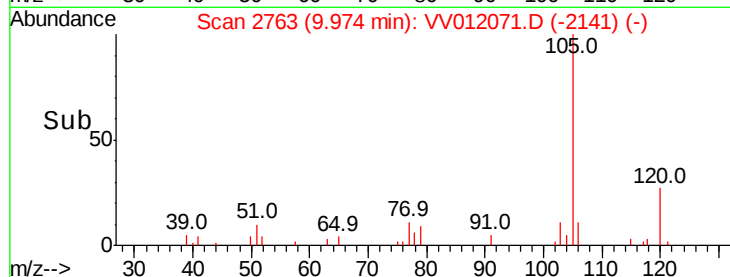
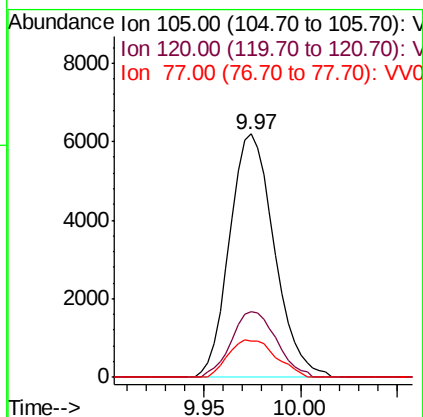
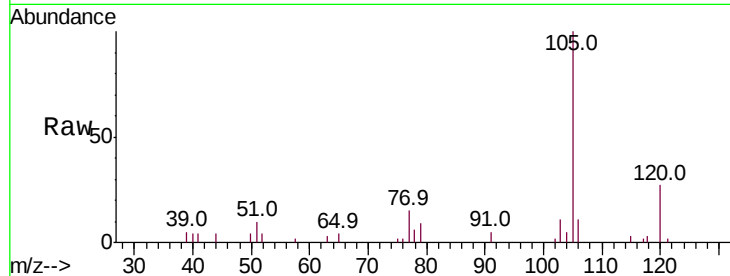
ClientSampleId :

MDL05

Tot Ion:	105	Resp:	9947
Ion Ratio	Lower	Upper	
105	100		
120	27.2	21.5	32.3
77	16.2	12.3	18.5

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#61

1,2,3-Trichloropropane

Concen: 0.286 ug/L

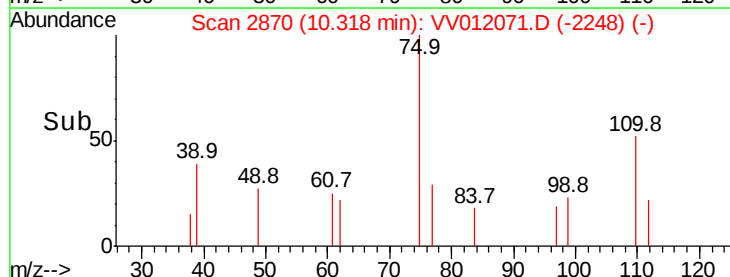
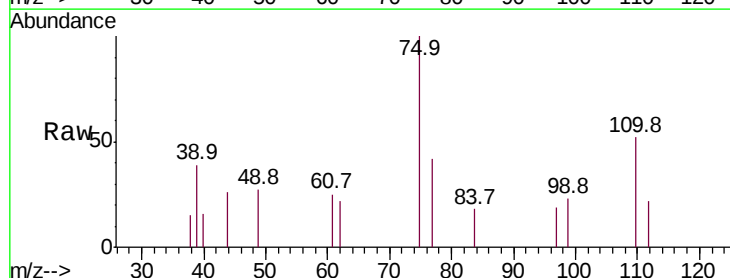
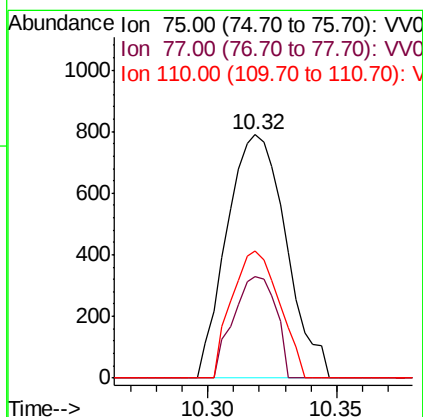
RT: 10.32 min Scan# 2870

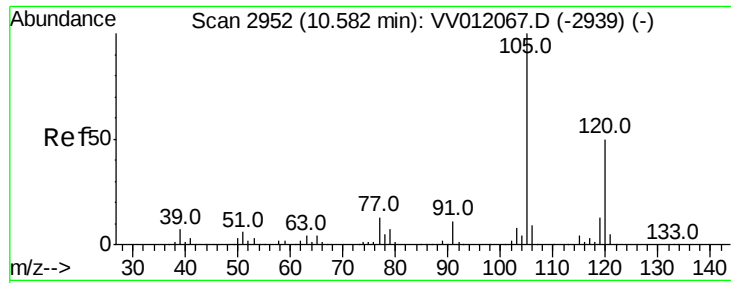
Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Tgt Ion:	75	Resp:	1261
Ion Ratio	Lower	Upper	
75	100		
77	29.7	26.8	40.2
110	42.0	35.0	52.6





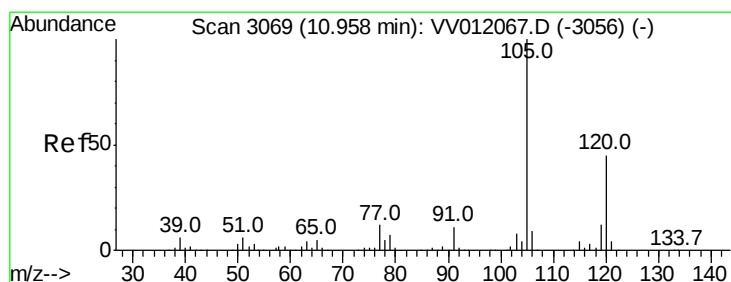
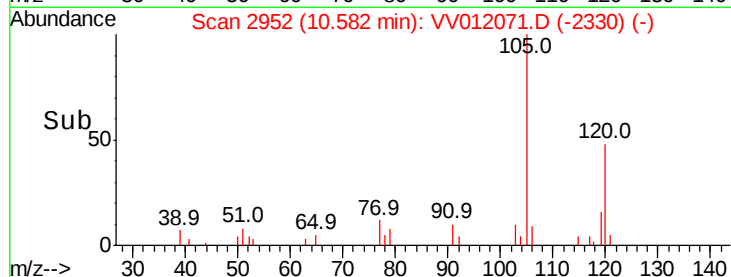
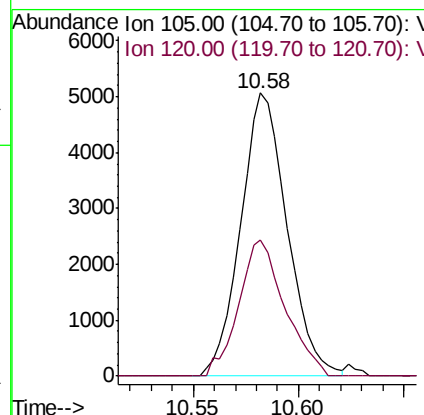
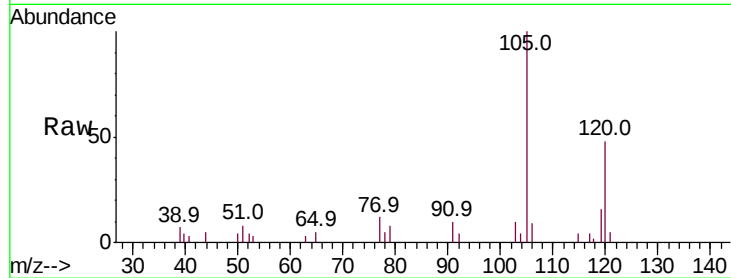
#62
 1,3,5-Trimethylbenzene
 Concen: 0.244 ug/L
 RT: 10.58 min Scan# 2952
 Delta R.T. -0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion:105 Resp: 7759
 Ion Ratio Lower Upper
 105 100
 120 47.5 40.1 60.1

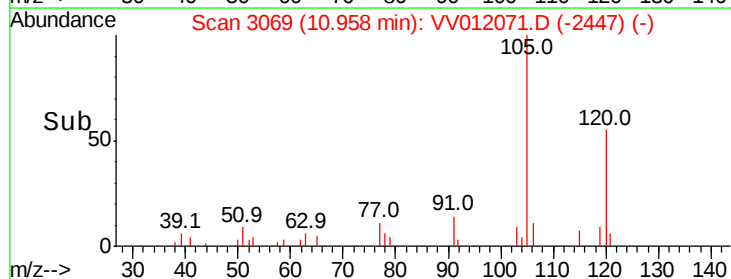
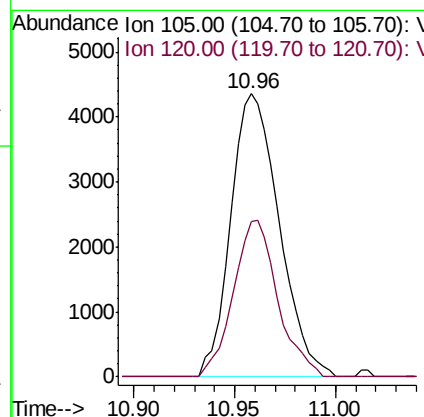
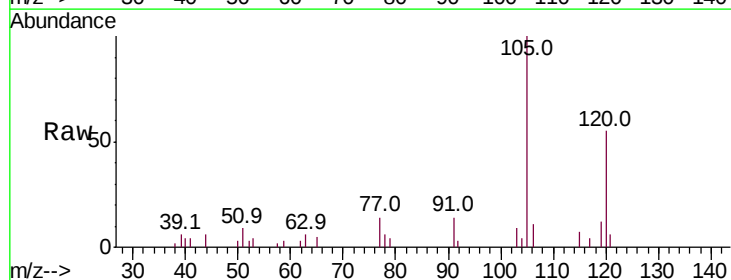
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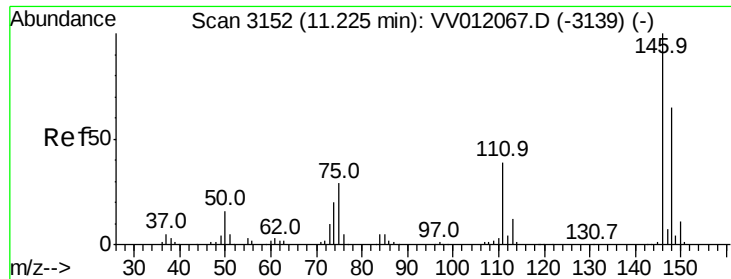
MMdadoda
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#63
 1,2,4-Trimethylbenzene
 Concen: 0.231 ug/L
 RT: 10.96 min Scan# 3069
 Delta R.T. -0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Tgt Ion:105 Resp: 7316
 Ion Ratio Lower Upper
 105 100
 120 50.6 35.8 53.8





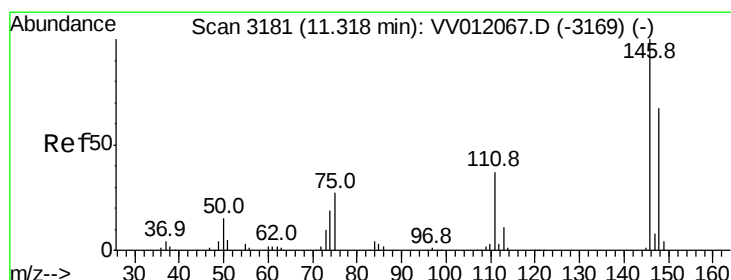
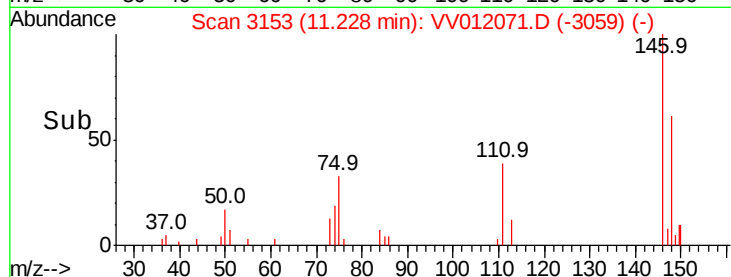
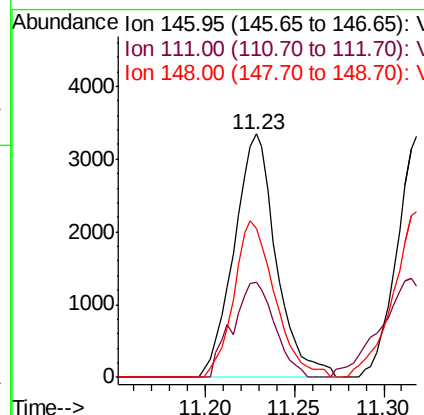
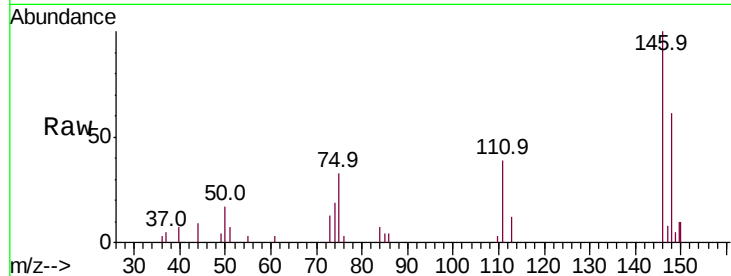
#64
 1,3-Dichlorobenzene
 Concen: 0.286 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	27.2	50.6
148	61.2	44.5	82.7

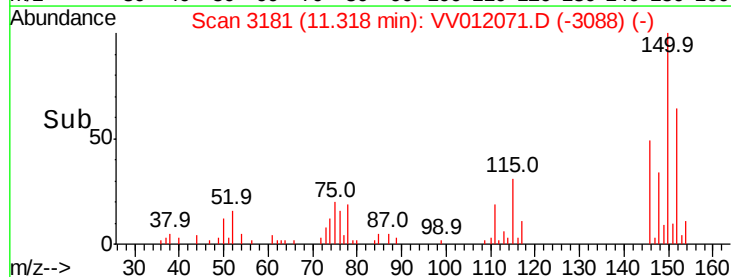
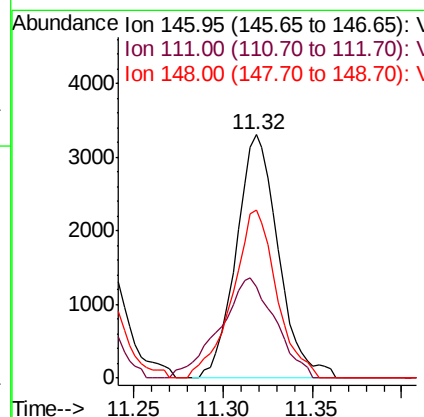
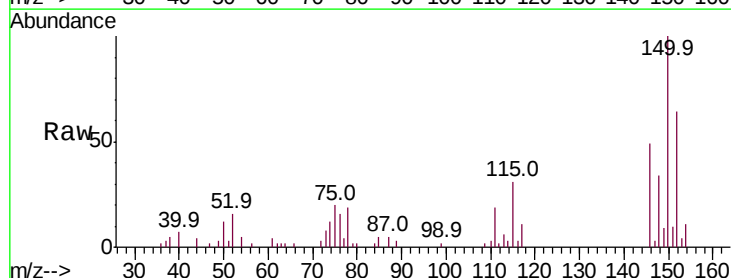
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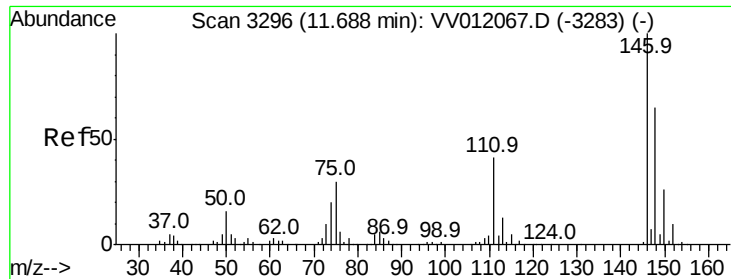
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#65
 1,4-Dichlorobenzene
 Concen: 0.278 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	25.8	48.0
148	69.0	43.8	81.3





#67

1,2-Dichlorobenzene

Concen: 0.285 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion:146 Resp: 4983

Ion Ratio Lower Upper

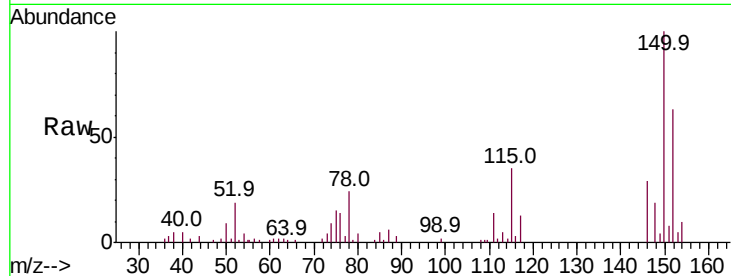
146 100

111 47.4 32.4 48.6

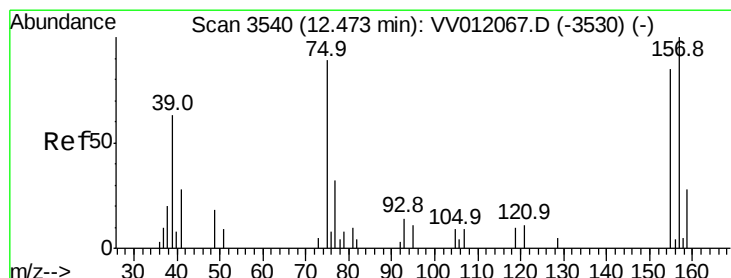
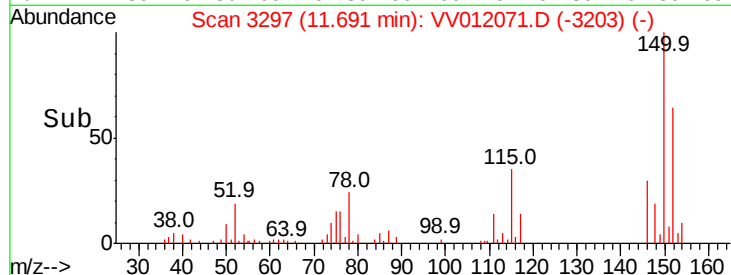
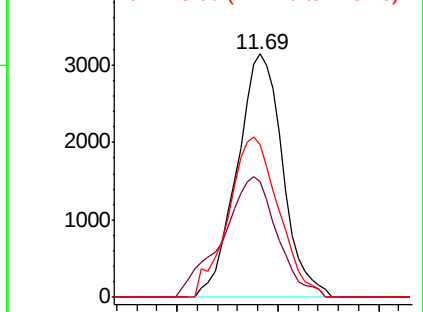
148 62.9 49.4 74.0

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Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 0.249 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV012071.D

Acq: 30 Jul 2019 12:30

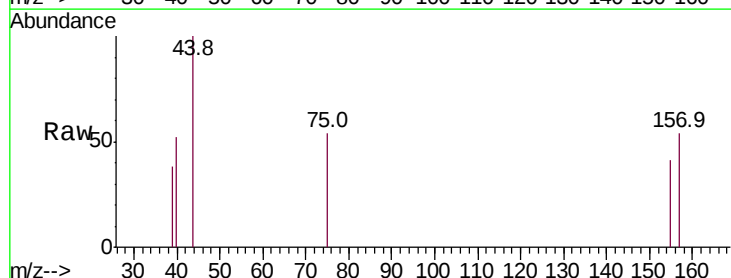
Tgt Ion: 75 Resp: 226

Ion Ratio Lower Upper

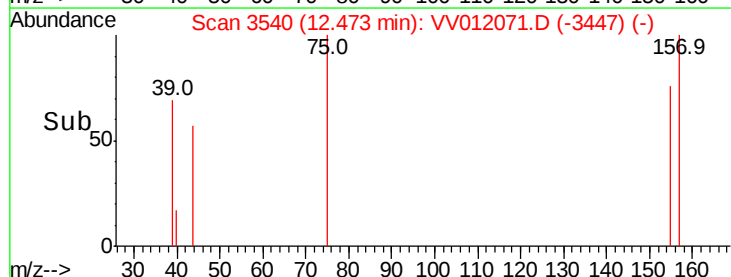
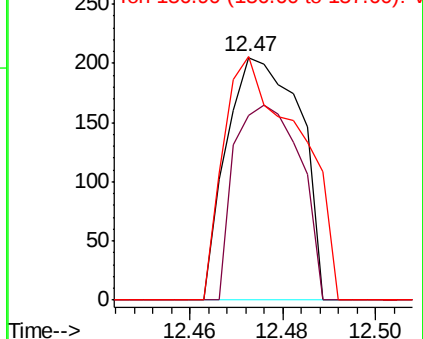
75 100

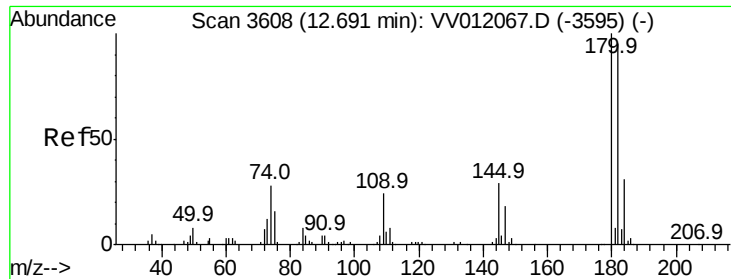
155 76.1 75.0 112.6

157 100.5 87.8 131.6



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 154.95 (154.65 to 155.65): V
Ion 156.90 (156.60 to 157.60): V





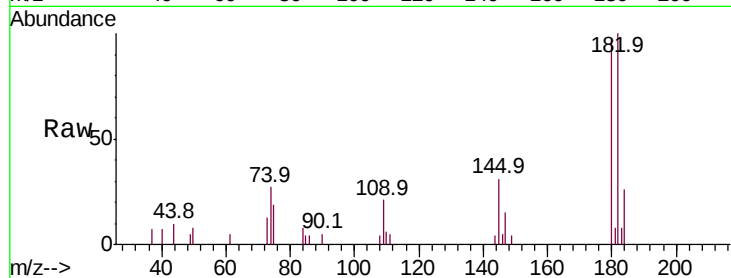
#69
 1,3,5-Trichlorobenzene
 Concen: 0.286 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion:	180	Resp:	4551
Ion Ratio	Lower	Upper	
180	100		
182	94.0	77.1	115.7
184	30.3	24.6	36.8
145	30.4	22.8	34.2

Manual Integrations
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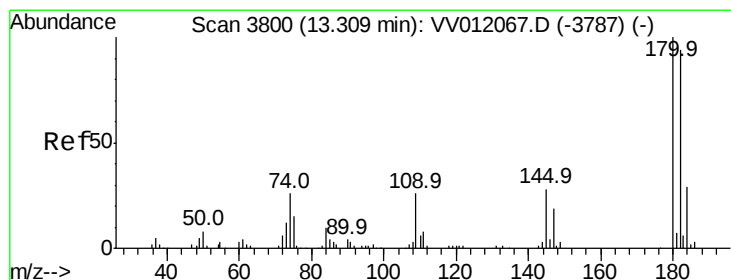
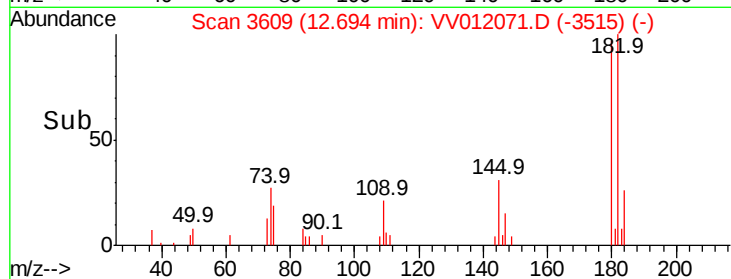
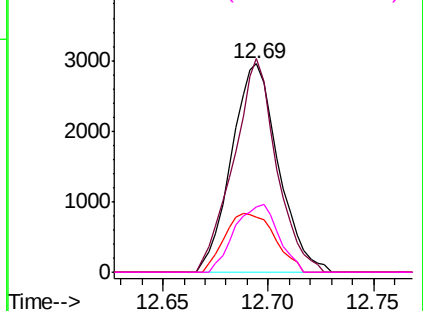
Abundance

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



#70
 1,2,4-trichlorobenzene
 Concen: 0.262 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV012071.D
 Acq: 30 Jul 2019 12:30

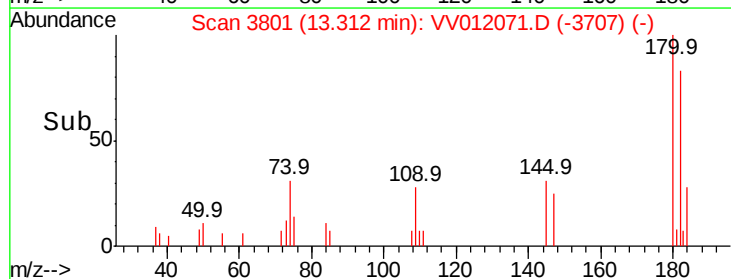
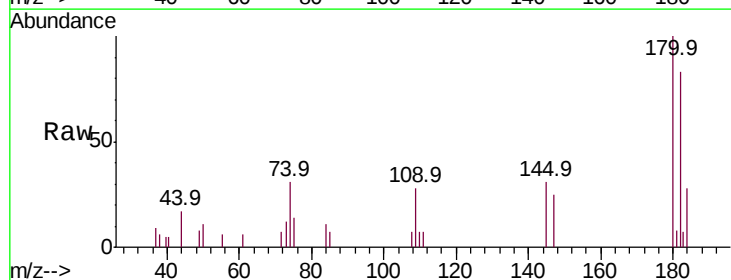
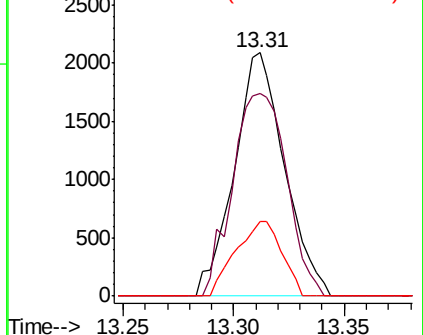
Tgt Ion:	180	Resp:	3302
Ion Ratio	Lower	Upper	
180	100		
182	89.9	76.1	114.1
145	28.0	24.3	36.5

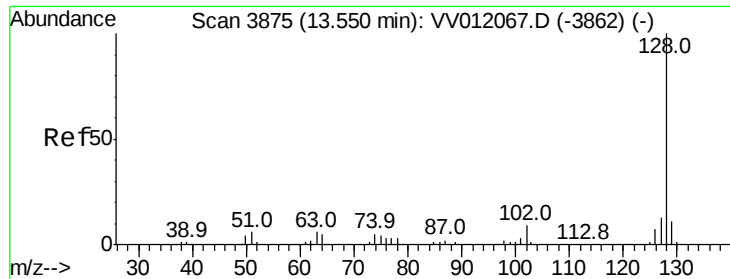
Abundance

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





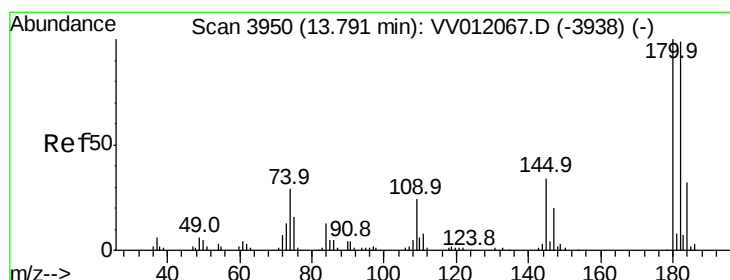
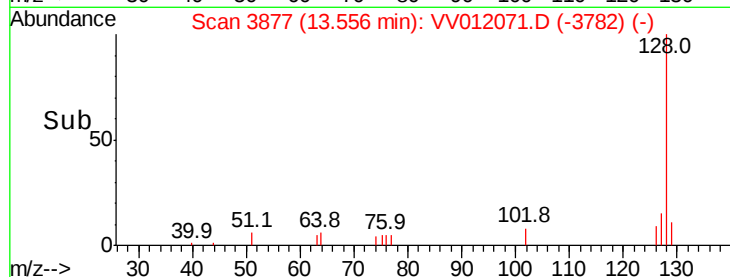
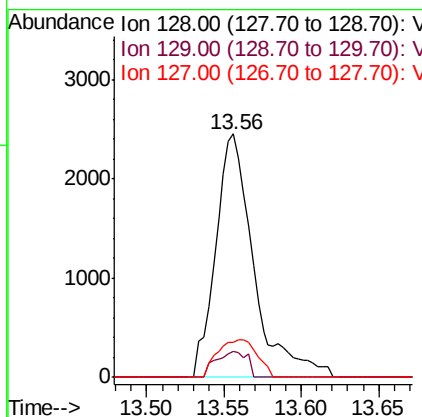
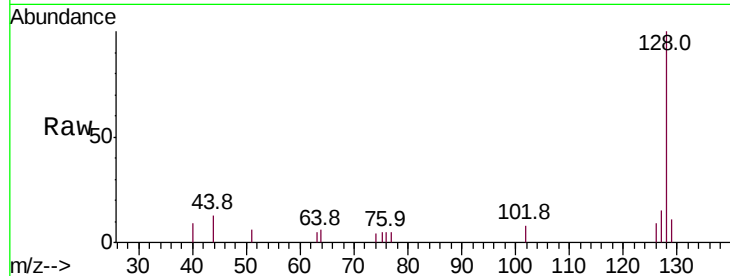
#71
Naphthalene
Concen: 0.241 ug/L
RT: 13.56 min Scan# 3877
Delta R.T. 0.01 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
128	100		
129	8.7	9.1	13.7#
127	16.0	10.4	15.6#

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#72
1,2,3-Trichlorobenzene
Concen: 0.273 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV012071.D
Acq: 30 Jul 2019 12:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	84.3	78.5	117.7
145	26.8	25.8	38.8

