

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV020620\
 Data File : VV014520.D
 Acq On : 06 Feb 2020 15:38
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 2/7/2020 1:23:54 PM

Quant Time: Feb 07 01:53:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 07 01:37:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	407391	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	376125	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	192971	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	104124	47.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.26%
7) Chloroethane-d5	1.58	69	74983	49.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.50%
11) 1,1-Dichloroethene-d2	2.13	63	124895	37.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.46%
21) 2-Butanone-d5	3.92	46	163039	95.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.60%
24) Chloroform-d	4.40	84	238266	47.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.66%
26) 1,2-Dichloroethane-d4	5.08	65	150595	49.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.02%
32) Benzene-d6	5.09	84	514094	49.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.72%
36) 1,2-Dichloropropane-d6	6.11	67	161922	50.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.40%
41) Toluene-d8	7.35	98	477530	49.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.58%
43) trans-1,3-Dichloropropene-	7.66	79	84060	49.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.18%
47) 2-Hexanone-d5	8.13	63	124754	91.82	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.82%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	200913	48.44	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.88%
66) 1,2-Dichlorobenzene-d4	11.67	152	182118	49.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.42%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	8939	2.739 ug/L	99
3) Chloromethane	1.26	50	9017	2.729 ug/L	98
5) Vinyl chloride	1.33	62	6818	2.694 ug/L #	69
6) Bromomethane	1.54	94	2917	2.506 ug/L	97
8) Chloroethane	1.60	64	3403	2.706 ug/L	99
9) Trichlorofluoromethane	1.77	101	9193	2.696 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	5191	3.171 ug/L	92
12) 1,1-Dichloroethene	2.14	96	4947	3.159 ug/L #	1
13) Acetone	2.18	43	8120	5.687 ug/L	99
14) Carbon disulfide	2.32	76	20984	2.760 ug/L	99
15) Methyl Acetate	2.46	43	7309	2.662 ug/L	97
16) Methylene chloride	2.54	84	8350	2.808 ug/L	93
17) trans-1,2-Dichloroethene	2.79	96	7866	2.851 ug/L	96
18) Methyl tert-butyl Ether	2.80	73	22477	2.573 ug/L	95
19) 1,1-Dichloroethane	3.23	63	13063	2.648 ug/L	98
20) cis-1,2-Dichloroethene	3.96	96	7998	2.576 ug/L	99
22) 2-Butanone	4.02	43	10035m	4.752 ug/L	

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Manual Integrations
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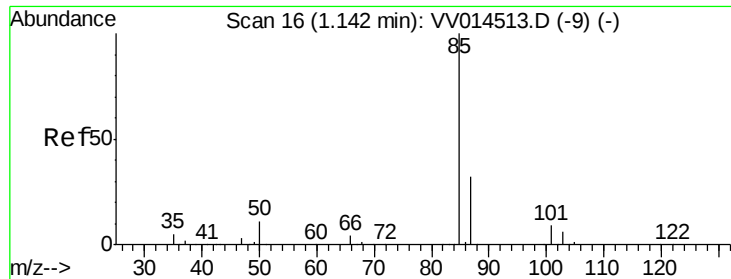
MMDadoda
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Quant Time: Feb 07 01:53:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

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

23) Bromochloromethane	4.30	128	3557	2.420	ug/L #	92
25) Chloroform	4.43	83	17689	3.527	ug/L	97
27) 1,2-Dichloroethane	5.18	62	10277	2.750	ug/L	99
29) Cyclohexane	4.73	56	11929	2.579	ug/L	96
30) 1,1,1-Trichloroethane	4.66	97	11100	2.586	ug/L #	66
31) Carbon tetrachloride	4.87	117	9870	2.606	ug/L	98
33) Benzene	5.15	78	29587	2.676	ug/L	100
34) Trichloroethene	5.96	95	7811	2.665	ug/L	96
35) Methylcyclohexane	6.17	83	12299	2.568	ug/L	98
37) 1,2-Dichloropropane	6.22	63	7888	2.801	ug/L	98
38) Bromodichloromethane	6.55	83	9874	2.612	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	11585	2.466	ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	17117	4.703	ug/L	97
42) Toluene	7.43	91	32482	2.740	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	10558m	2.506	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	7293	2.699	ug/L	93
46) Tetrachloroethene	8.02	164	5947	2.660	ug/L	96
48) 2-Hexanone	8.18	43	14254	5.087	ug/L	94
49) Dibromochloromethane	8.28	129	7814	2.561	ug/L	97
50) 1,2-Dibromoethane	8.39	107	7190	2.457	ug/L #	99
51) Chlorobenzene	8.92	112	20731	2.677	ug/L	97
52) Ethylbenzene	9.05	91	34048	2.561	ug/L	97
53) m,p-Xylene	9.18	106	12538	2.448	ug/L	95
54) o-Xylene	9.58	106	12535	2.557	ug/L	95
55) Styrene	9.60	104	21415	2.556	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.28	83	12286	2.901	ug/L	97
59) Bromoform	9.77	173	5326	2.475	ug/L #	91
60) Isopropylbenzene	9.97	105	32467	2.488	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	8848	2.589	ug/L	98
62) 1,3,5-Trimethylbenzene	10.58	105	27278	2.442	ug/L	97
63) 1,2,4-Trimethylbenzene	10.95	105	26340	2.392	ug/L	98
64) 1,3-Dichlorobenzene	11.22	146	15335	2.491	ug/L	98
65) 1,4-Dichlorobenzene	11.31	146	16569	2.615	ug/L	99
67) 1,2-Dichlorobenzene	11.68	146	16336	2.737	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.47	75	2478	2.589	ug/L	98
69) 1,3,5-Trichlorobenzene	12.69	180	11054	2.549	ug/L	96
70) 1,2,4-trichlorobenzene	13.31	180	9829	2.469	ug/L	98
71) Naphthalene	13.55	128	33177	2.537	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	9539	2.466	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 2.739 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 85 Resp: 8939

Ion Ratio Lower Upper

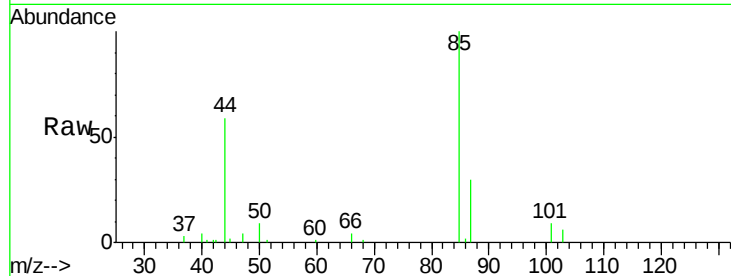
85 100

87 31.4 25.7 38.5

Manual Integrations
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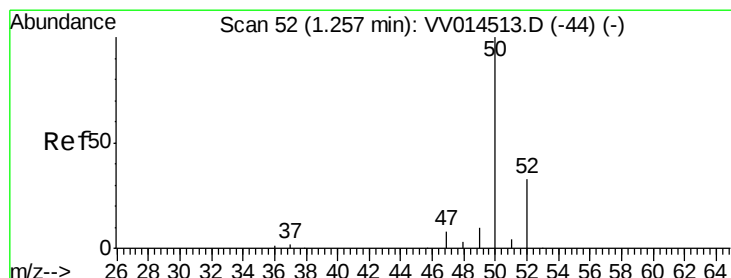
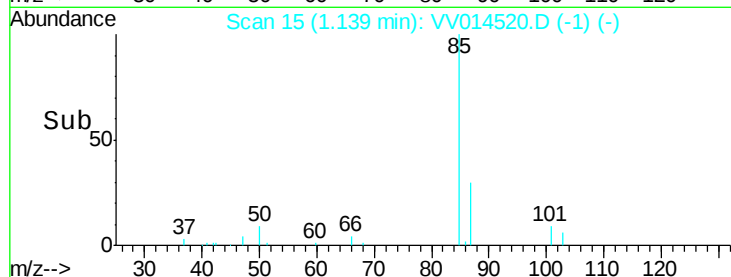
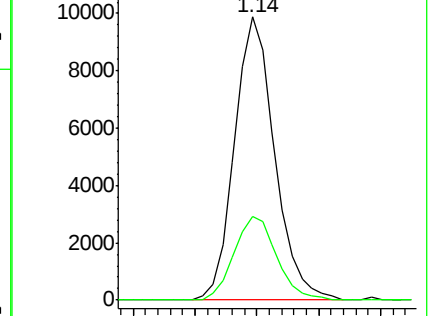
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.729 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014520.D

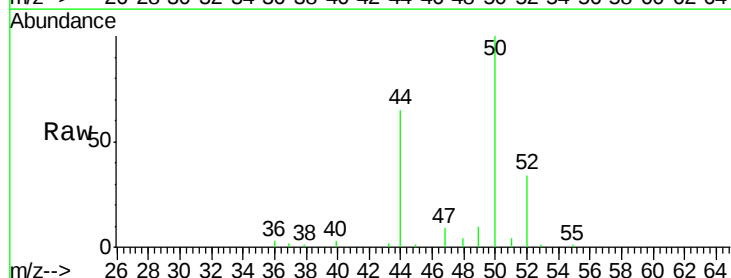
Acq: 06 Feb 2020 15:38

Tgt Ion: 50 Resp: 9017

Ion Ratio Lower Upper

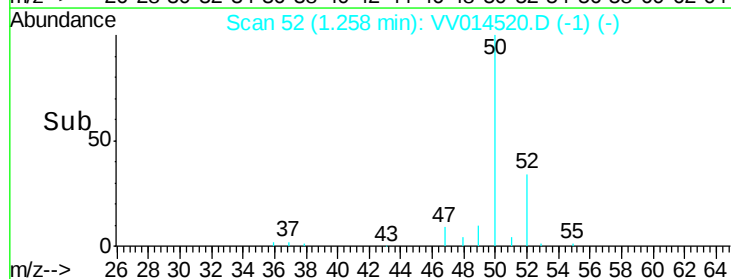
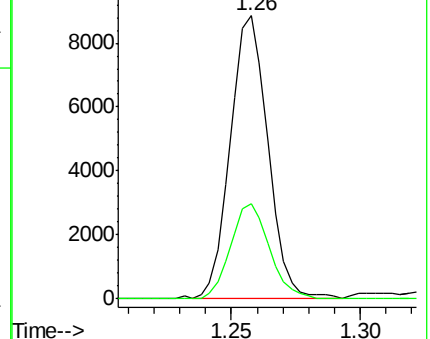
50 100

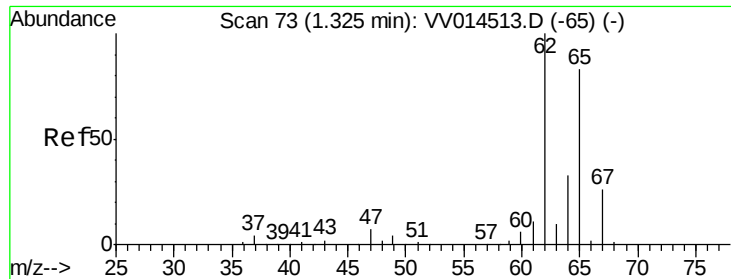
52 33.8 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.694 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 62 Resp: 6818

Ion Ratio Lower Upper

62 100

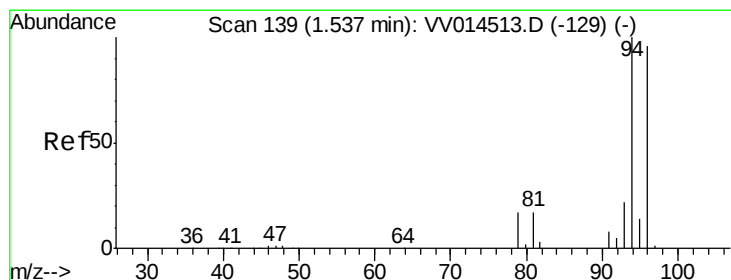
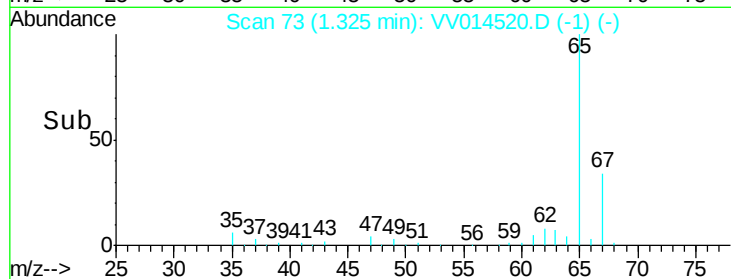
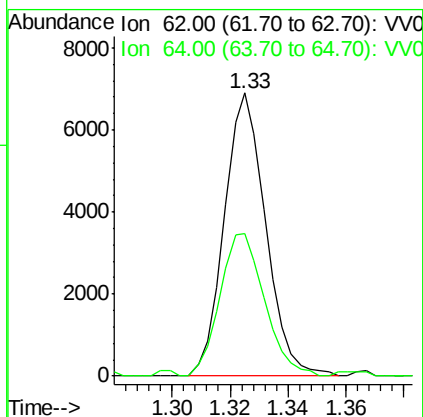
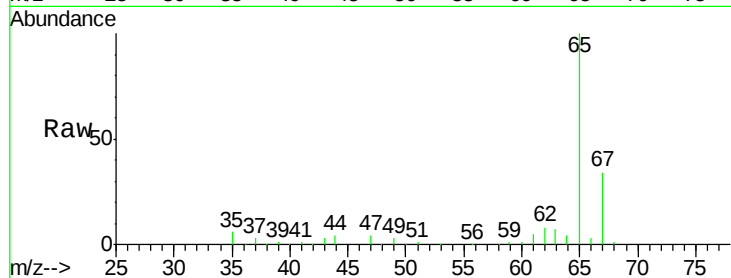
64 50.3 23.1 42.9#

Manual Integrations

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2/7/2020 1:23:54 PM



#6

Bromomethane

Concen: 2.506 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014520.D

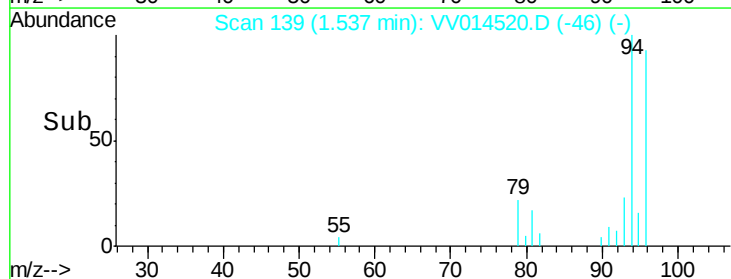
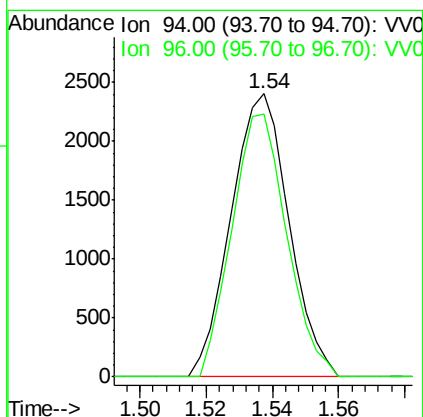
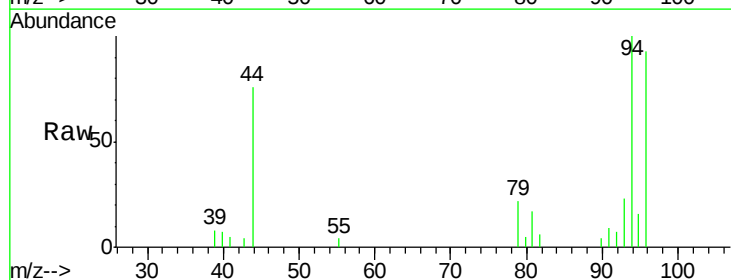
Acq: 06 Feb 2020 15:38

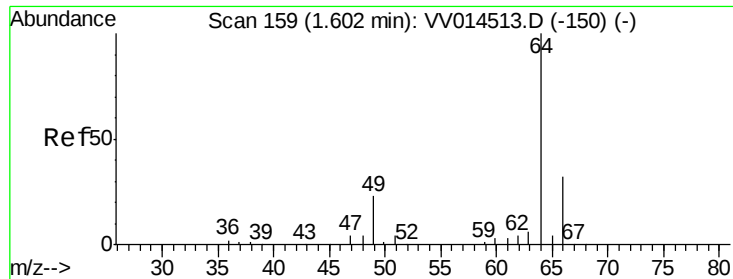
Tgt Ion: 94 Resp: 2917

Ion Ratio Lower Upper

94 100

96 92.8 67.3 124.9





#8

Chloroethane

Concen: 2.706 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 64 Resp: 3403

Ion Ratio Lower Upper

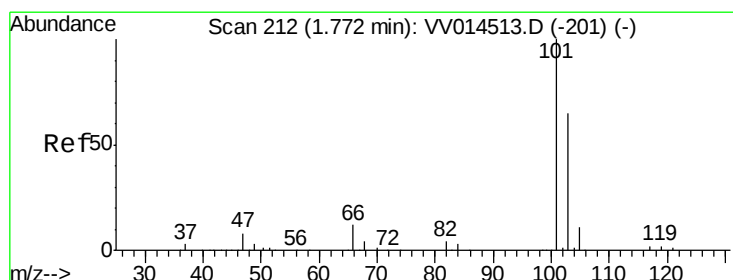
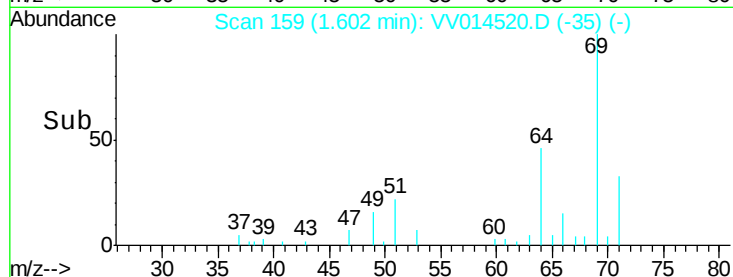
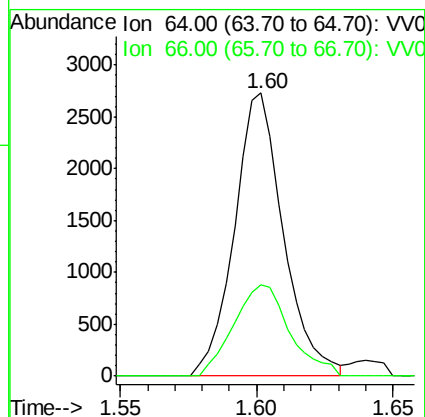
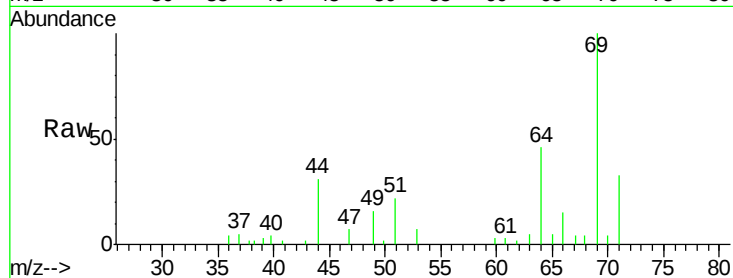
64 100

66 32.5 22.4 41.6

Manual Integrations
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2/7/2020 1:23:54 PM



#9

Trichlorofluoromethane

Concen: 2.696 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014520.D

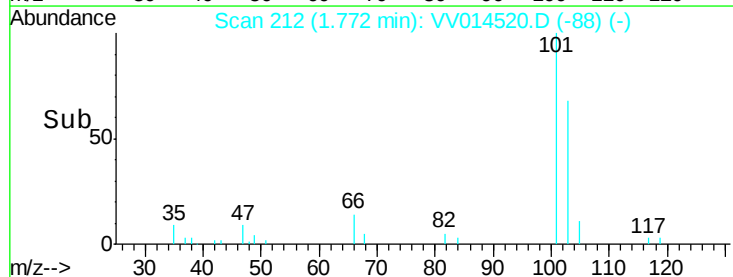
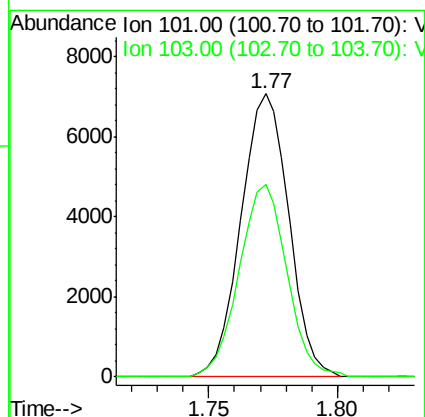
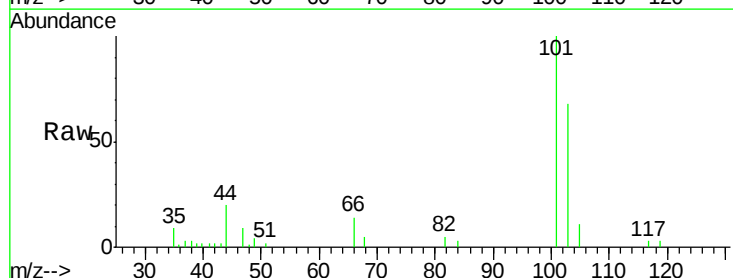
Acq: 06 Feb 2020 15:38

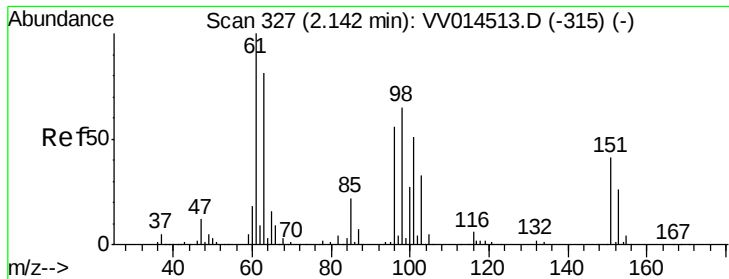
Tgt Ion: 101 Resp: 9193

Ion Ratio Lower Upper

101 100

103 68.0 51.8 77.8





#10

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

Concen: 3.171 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

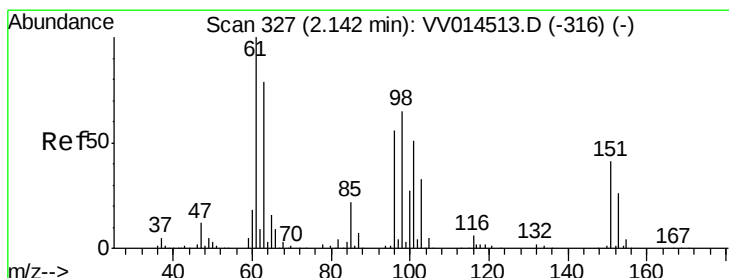
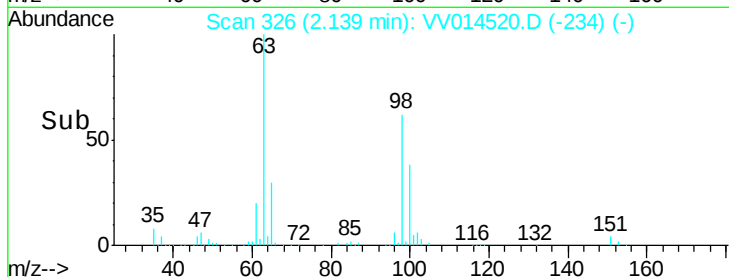
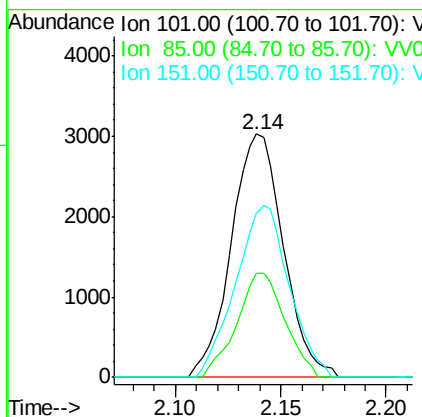
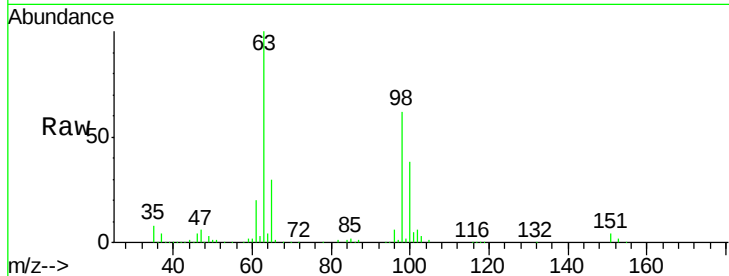
ClientSampleId :

MDL02

Tot Ion:	101	Resp:	5191
Ion Ratio	Lower	Upper	
101	100		
85	39.6	35.0	52.6
151	72.5	64.4	96.6

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.159 ug/L

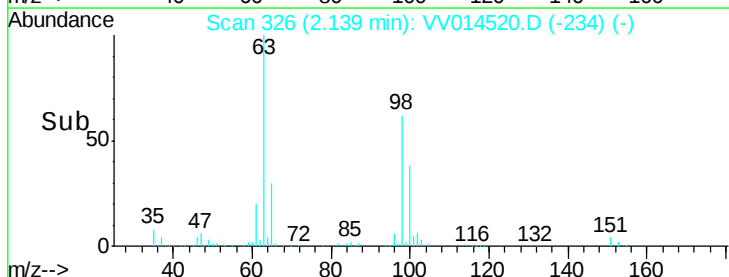
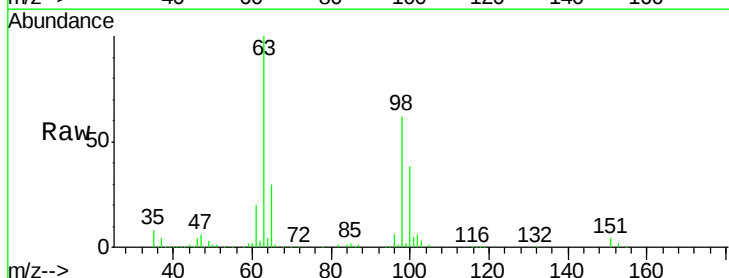
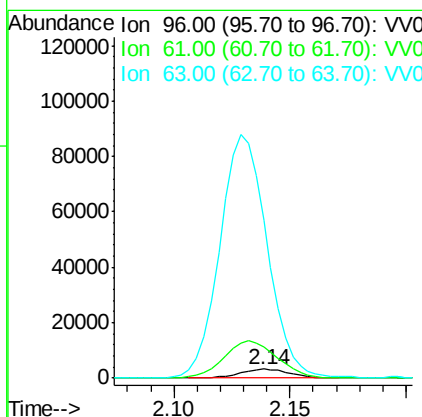
RT: 2.14 min Scan# 326

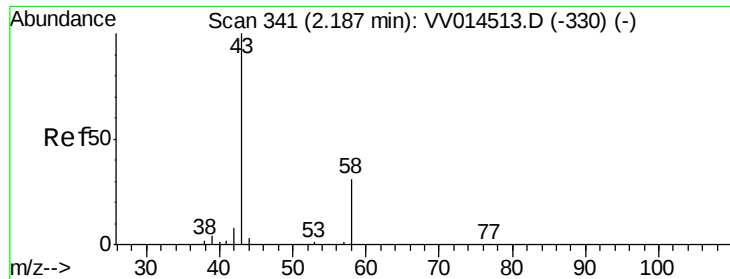
Delta R.T. -0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Tgt Ion:	96	Resp:	4947
Ion Ratio	Lower	Upper	
96	100		
61	344.9	125.0	232.2#
63	1764.3	101.6	188.6#





#13

Acetone

Concen: 5.687 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 8120

Ion Ratio Lower Upper

43 100

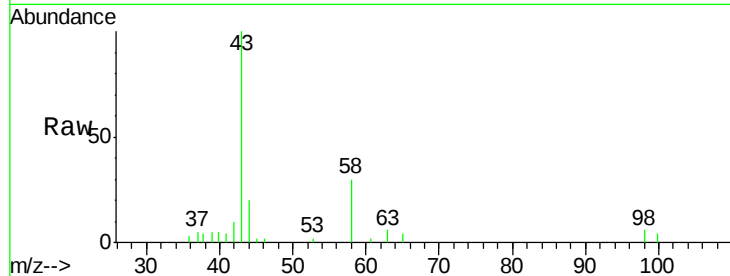
58 31.5 0.0 61.8

Manual Integrations

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2/7/2020 1:23:54 PM



Abundance Ion 43.00 (42.70 to 43.70): VV014520.D (-248) (-)

Ion 58.00 (57.70 to 58.70): VV014520.D (-248) (-)

2.18

6000

5000

4000

3000

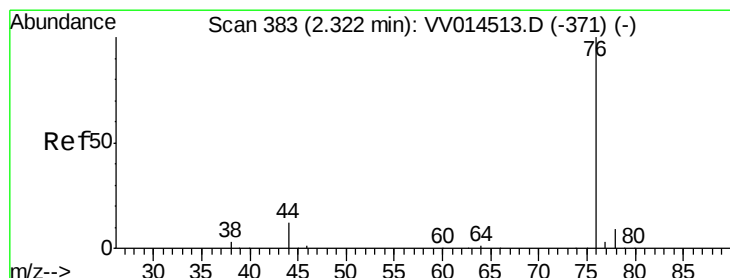
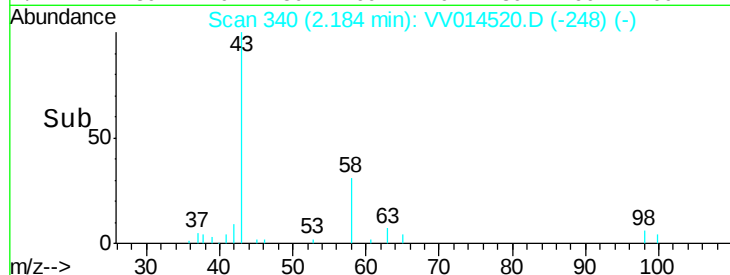
2000

1000

0

Time-->

2.15 2.20



#14

Carbon disulfide

Concen: 2.760 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV014520.D

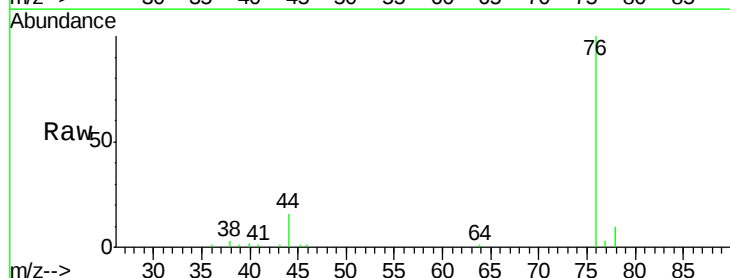
Acq: 06 Feb 2020 15:38

Tgt Ion: 76 Resp: 20984

Ion Ratio Lower Upper

76 100

78 9.7 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV014520.D (-290) (-)

Ion 78.00 (77.70 to 78.70): VV014520.D (-290) (-)

2.32

15000

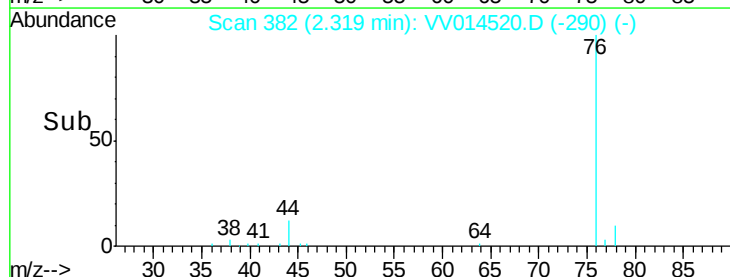
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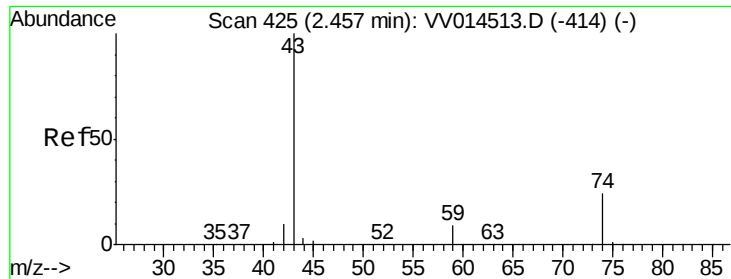
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0

Time-->

2.25 2.30 2.35 2.40





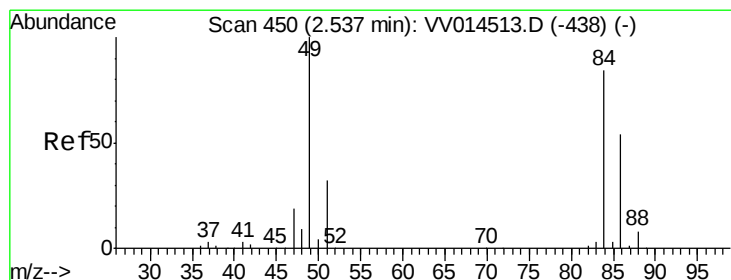
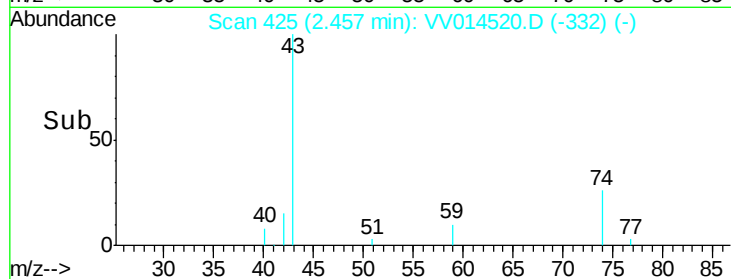
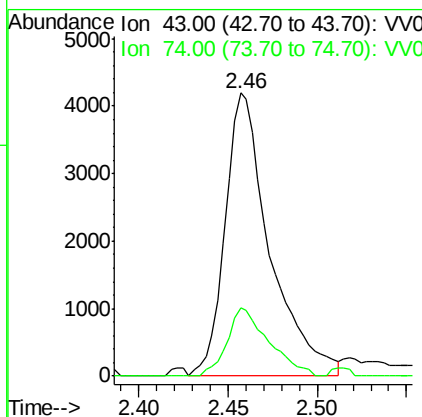
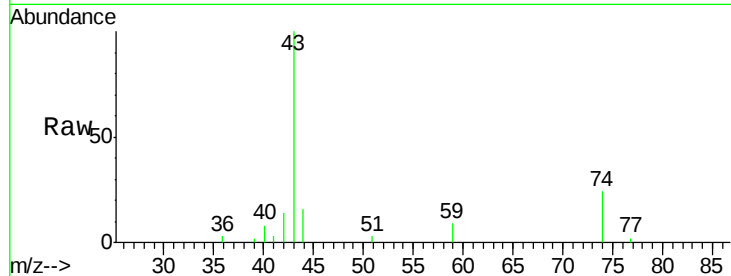
#15
Methvl Acetate
Concen: 2.662 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion: 43 Resp: 7309
Ion Ratio Lower Upper
43 100
74 22.5 19.4 29.0

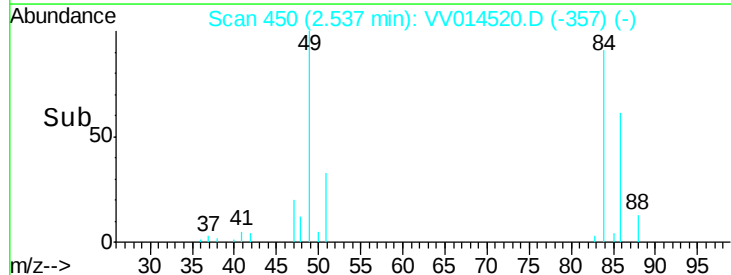
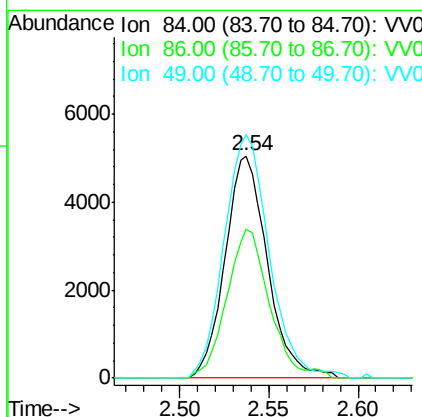
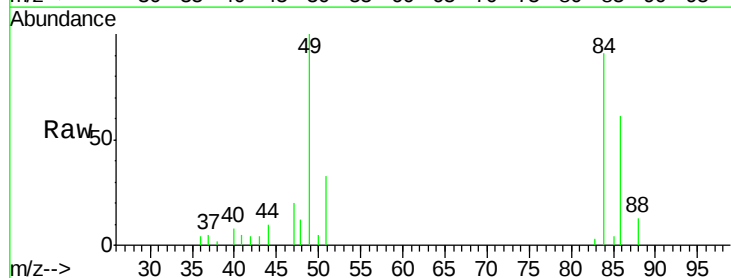
Manual Integrations
APPROVED

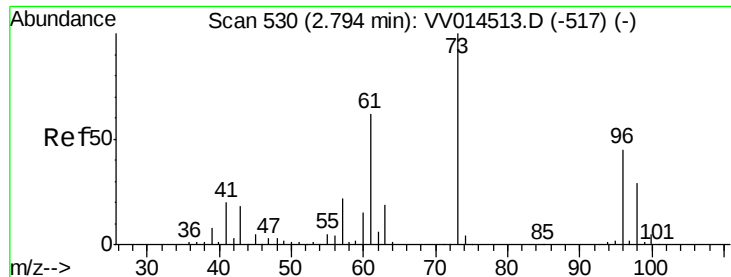
MMDadoda
2/7/2020 1:23:54 PM



#16
Methylene chloride
Concen: 2.808 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion: 84 Resp: 8350
Ion Ratio Lower Upper
84 100
86 67.2 44.6 82.8
49 109.7 83.2 154.4





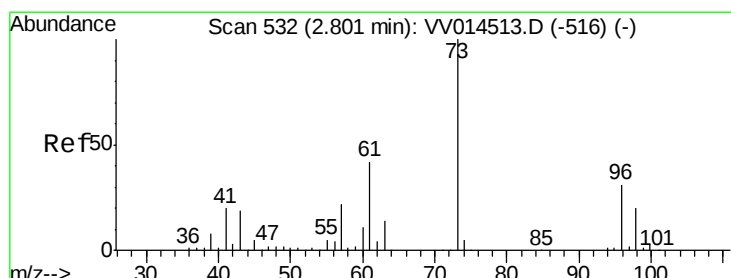
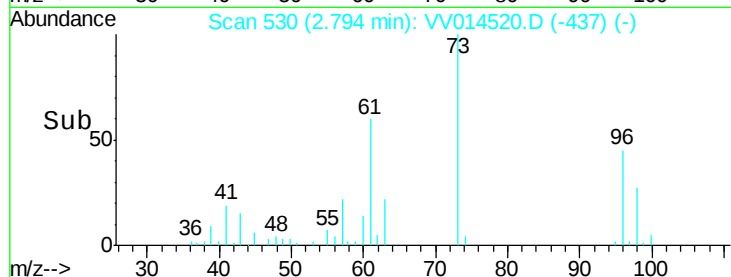
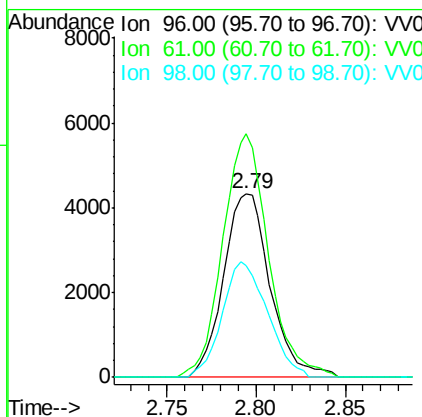
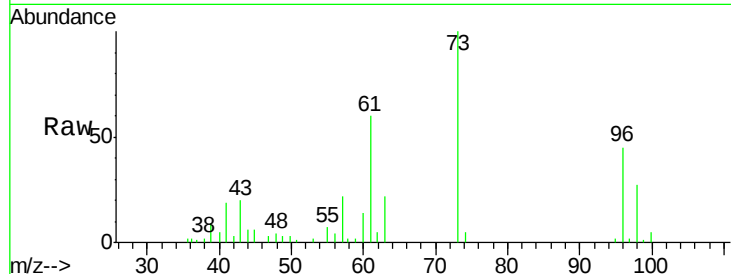
#17
trans-1,2-Dichloroethene
Concen: 2.851 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		7866		
61	132.3		95.8	178.0	
98	60.4		45.1	83.7	

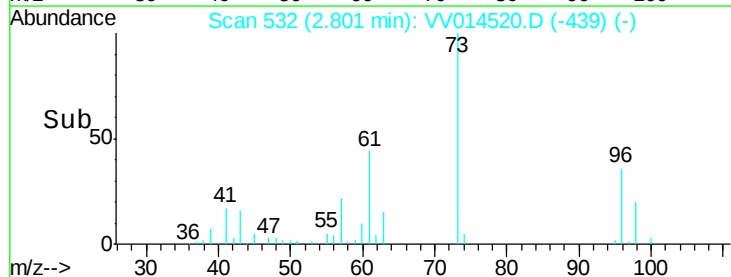
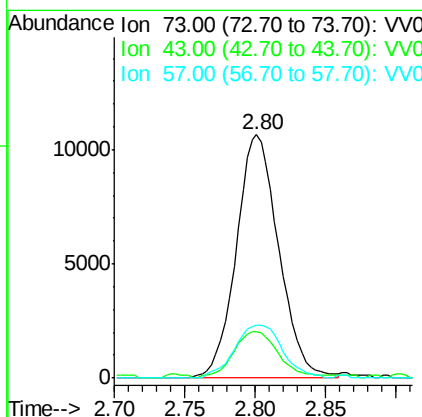
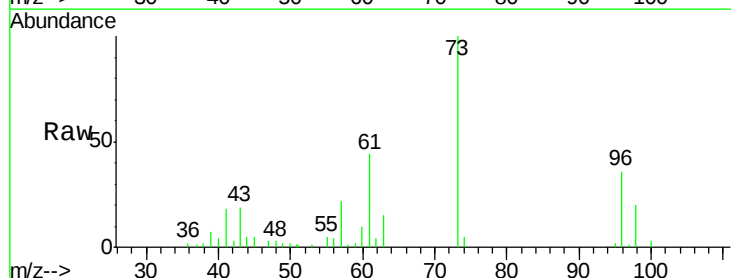
Manual Integrations
APPROVED

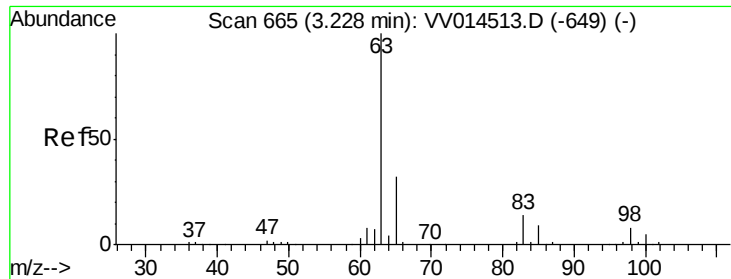
MMDadoda
2/7/2020 1:23:54 PM



#18
Methyl tert-butyl Ether
Concen: 2.573 ug/L
RT: 2.80 min Scan# 532
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
73	100		22477		
43	20.7		14.9	22.3	
57	24.6		17.5	26.3	





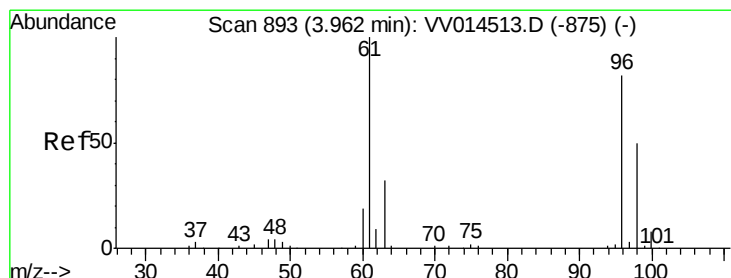
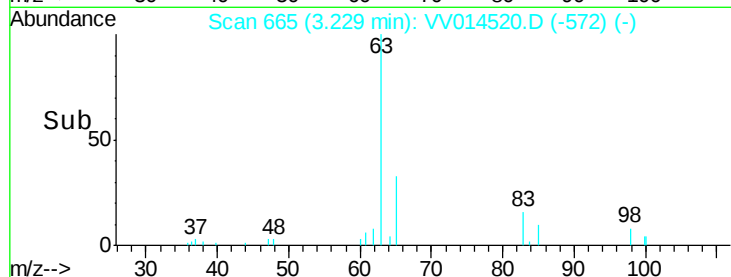
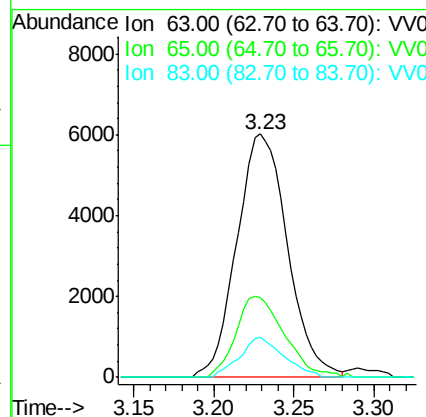
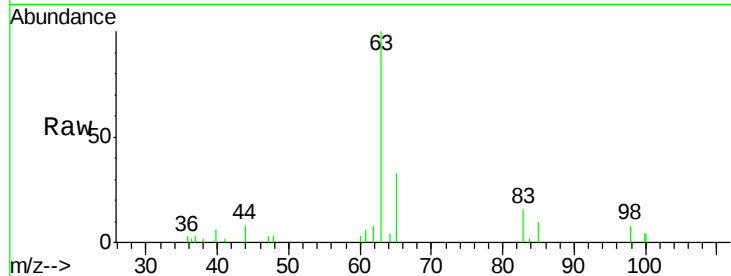
#19
 1,1-Dichloroethane
 Concen: 2.648 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.7	22.5	41.7
83	16.2	9.7	18.1

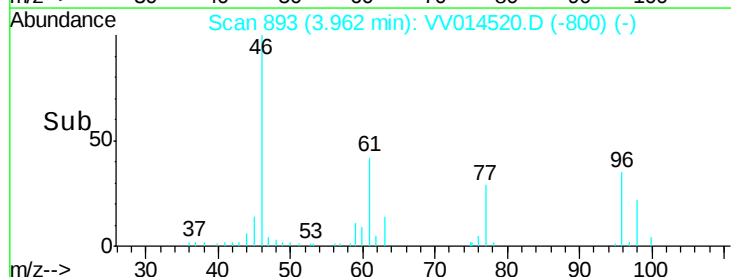
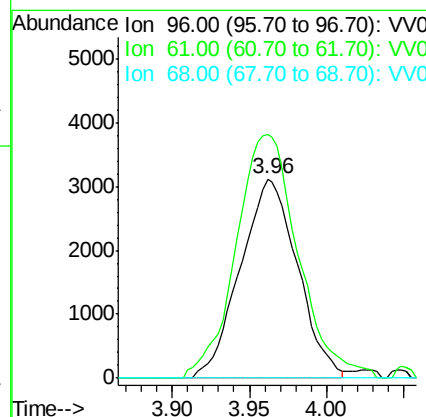
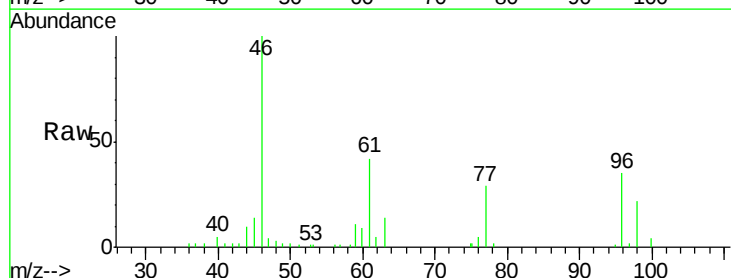
Manual Integrations
 APPROVED

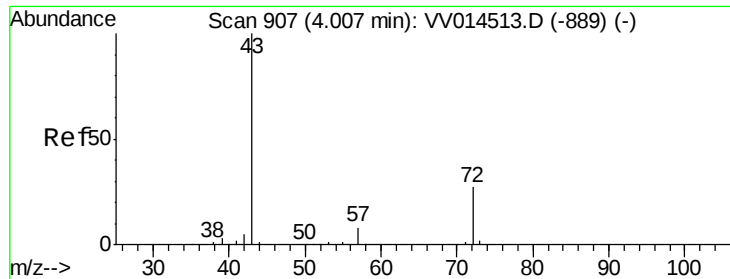
MMDadoda
 2/7/2020 1:23:54 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.576 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	122.3	85.2	158.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.752 ug/L m

RT: 4.02 min Scan# 912

Delta R.T. 0.02 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 10035

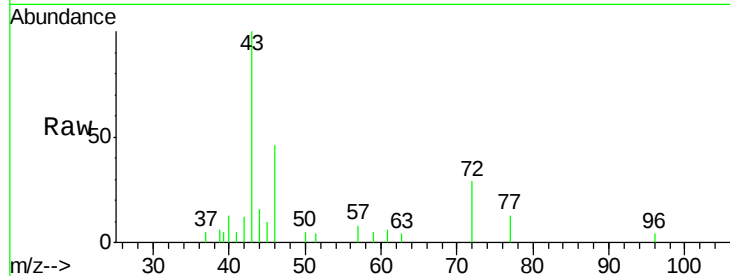
Ion Ratio Lower Upper

43 100

72 23.7 12.7 38.1

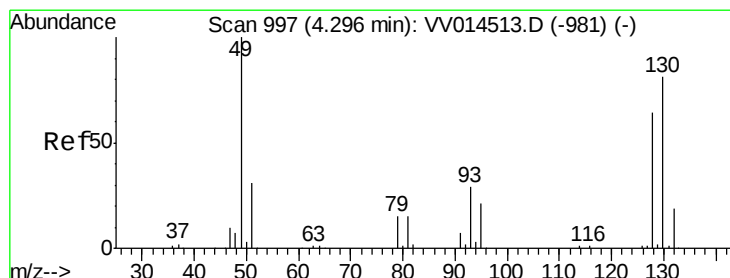
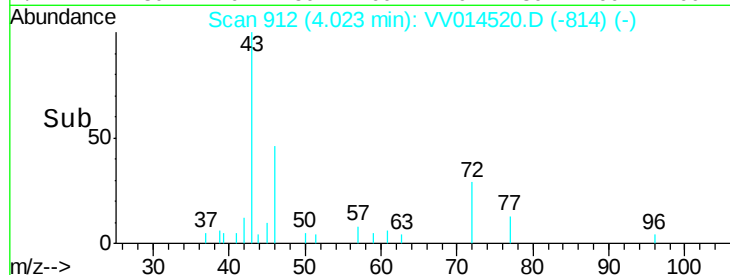
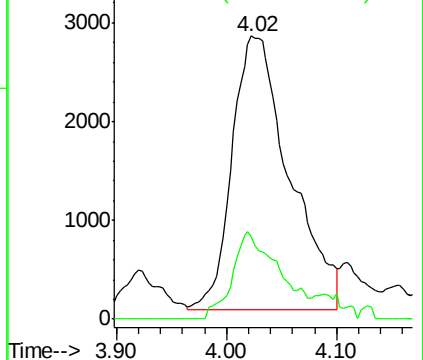
Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:54 PM



Abundance Ion 43.00 (42.70 to 43.70): VV014520.D (-814) (-)

Ion 72.00 (71.70 to 72.70): VV014520.D (-814) (-)



#23

Bromochloromethane

Concen: 2.420 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Tgt Ion: 128 Resp: 3557

Ion Ratio Lower Upper

128 100

49 169.3 110.1 204.5

130 123.6 88.5 164.4

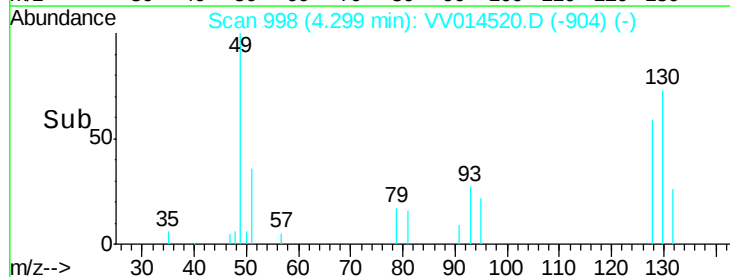
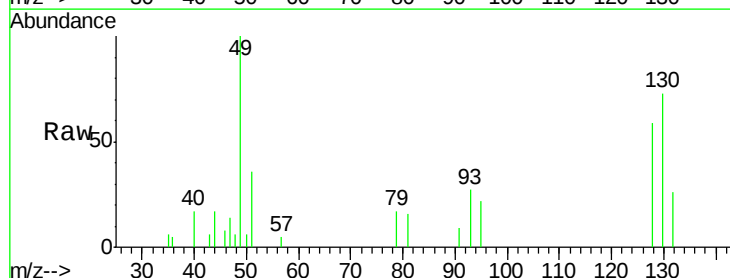
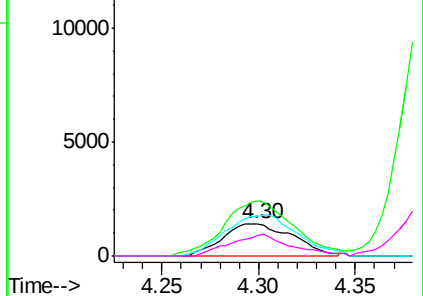
51 61.6 39.4 59.0#

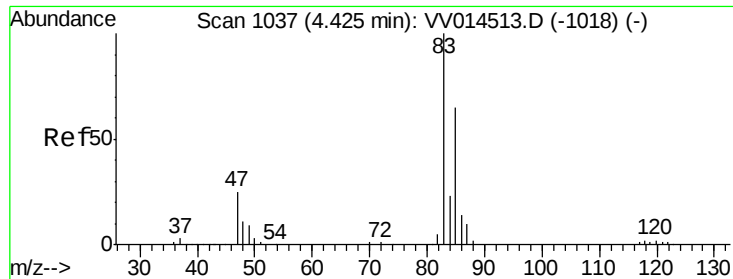
Abundance Ion 128.00 (127.70 to 128.70): VV014520.D (-904) (-)

Ion 49.00 (48.70 to 49.70): VV014520.D (-904) (-)

Ion 130.00 (129.70 to 130.70): VV014520.D (-904) (-)

Ion 51.00 (50.70 to 51.70): VV014520.D (-904) (-)





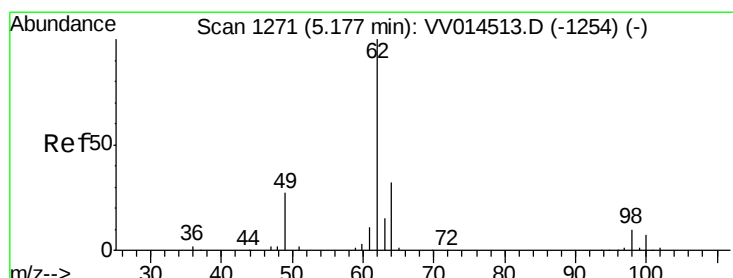
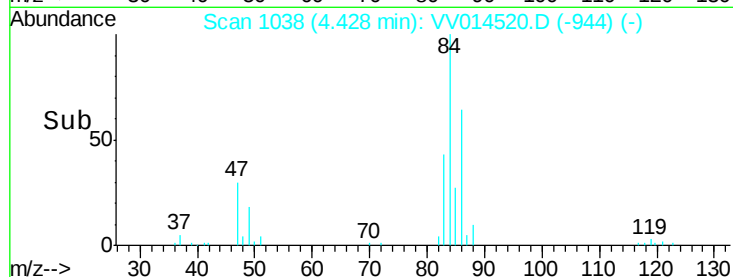
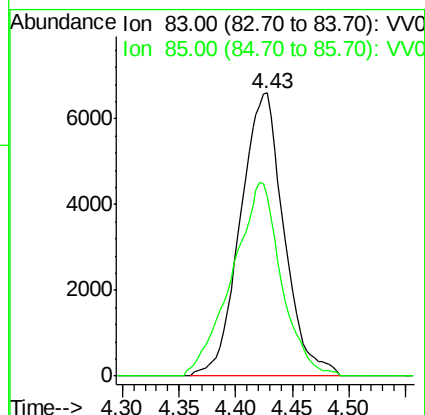
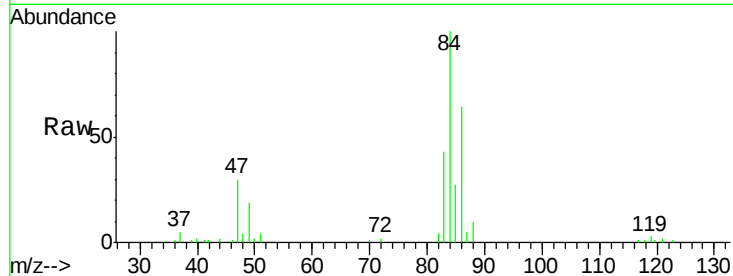
#25
Chloroform
Concen: 3.527 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion: 83 Resp: 17689
Ion Ratio Lower Upper
83 100
85 63.3 45.8 85.0

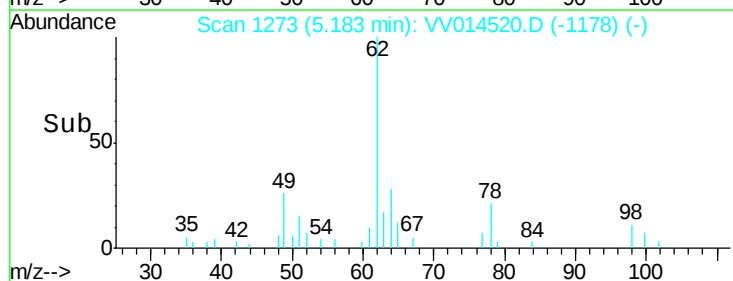
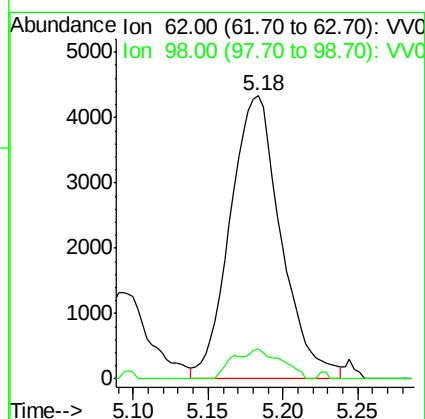
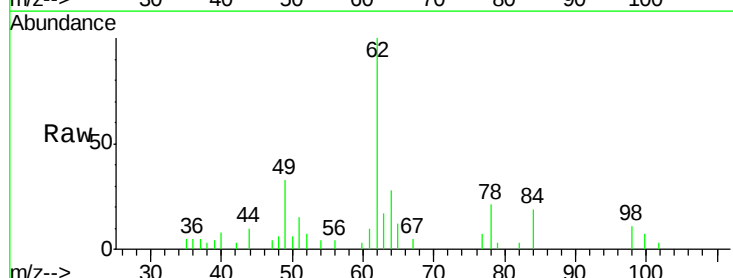
Manual Integrations
APPROVED

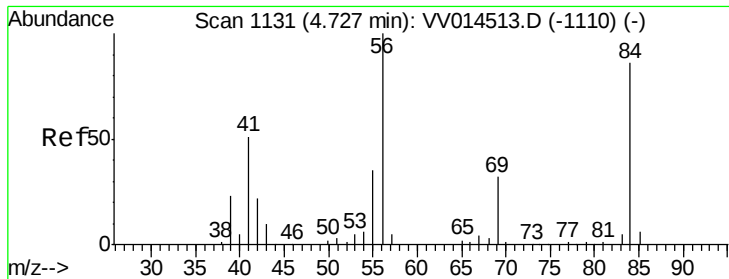
MMDadoda
2/7/2020 1:23:54 PM



#27
1,2-Dichloroethane
Concen: 2.750 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion: 62 Resp: 10277
Ion Ratio Lower Upper
62 100
98 10.6 8.2 12.4





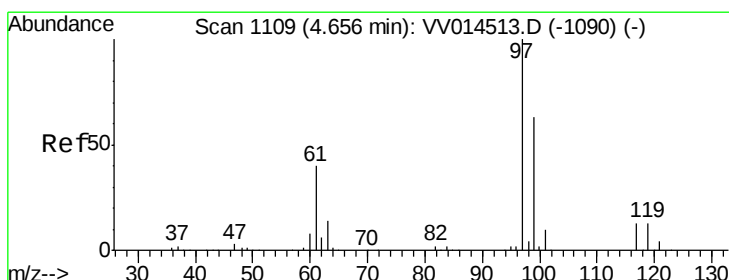
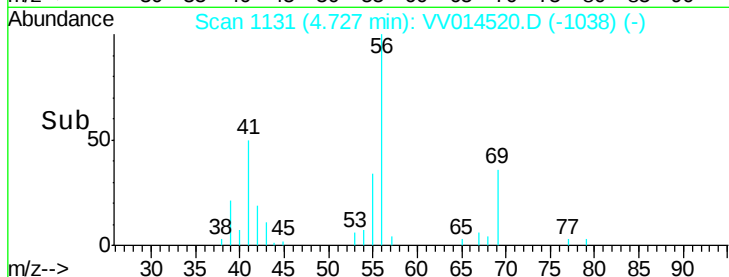
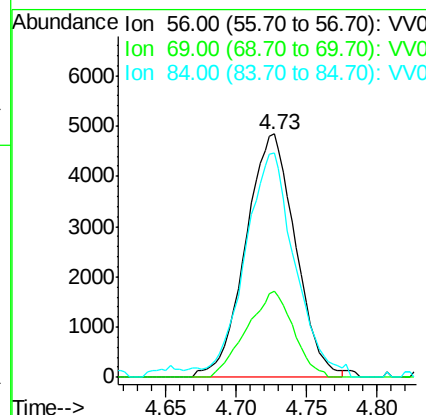
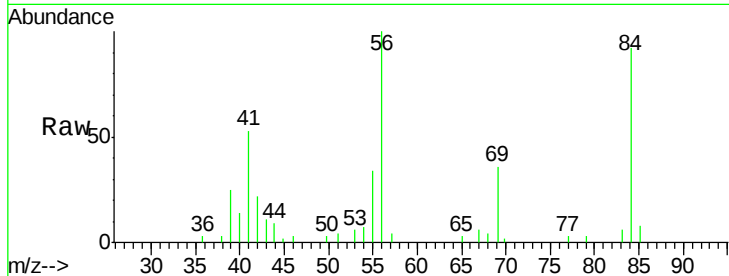
#29
Cyclohexane
Concen: 2.579 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.2	25.2	37.8
84	91.9	69.8	104.8

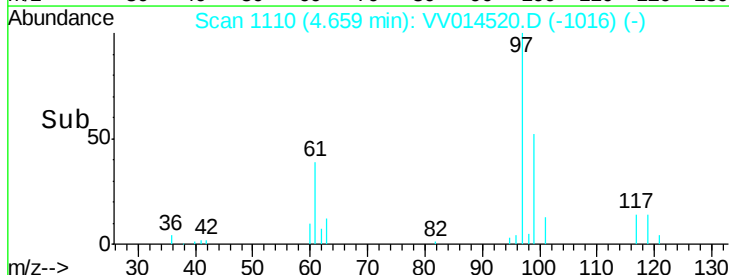
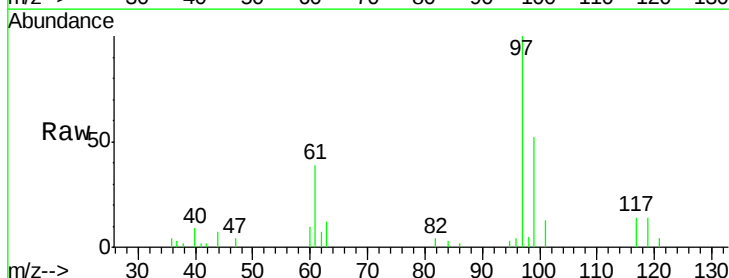
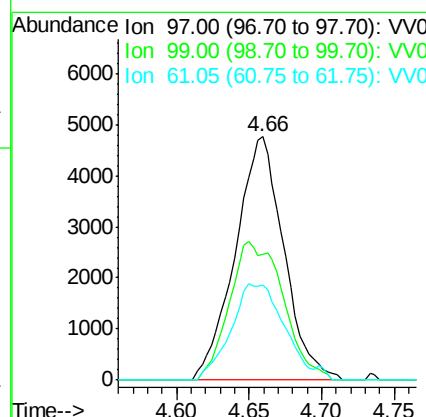
Manual Integrations
APPROVED

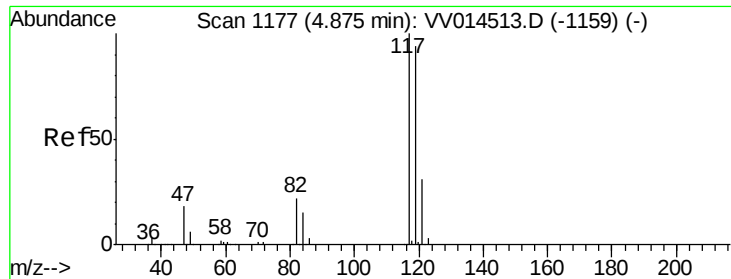
MMDadoda
2/7/2020 1:23:54 PM



#30
1,1,1-Trichloroethane
Concen: 2.586 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion	Ratio	Lower	Upper
97	100		
99	34.2	50.6	76.0#
61	23.0	33.0	49.4#





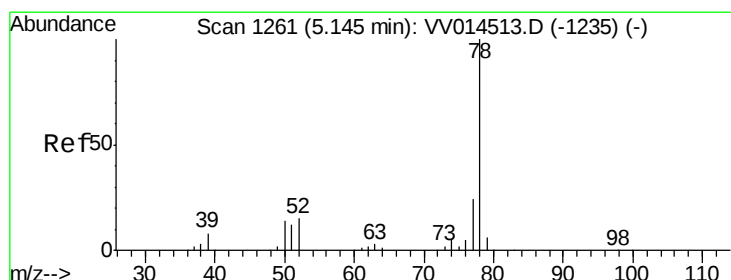
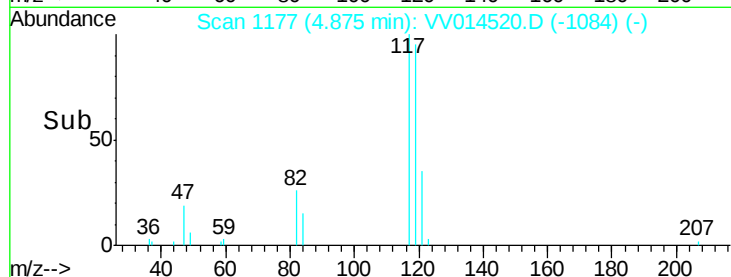
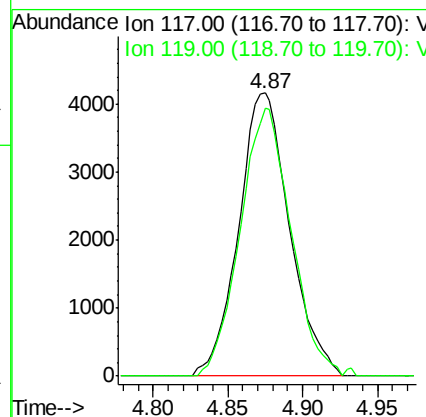
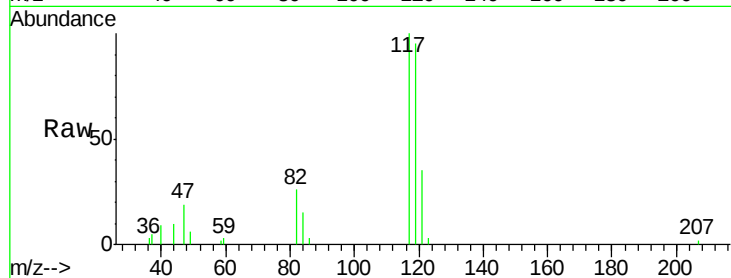
#31
Carbon tetrachloride
Concen: 2.606 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion:117 Resp: 9870
Ion Ratio Lower Upper
117 100
119 94.2 76.7 115.1

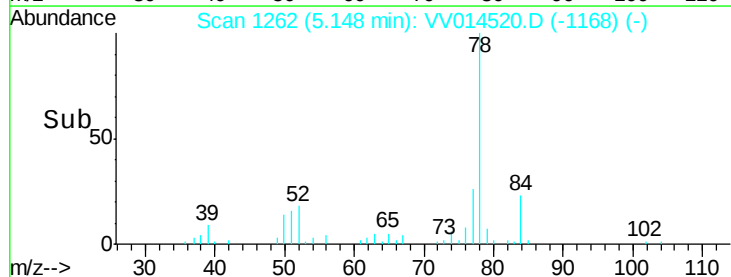
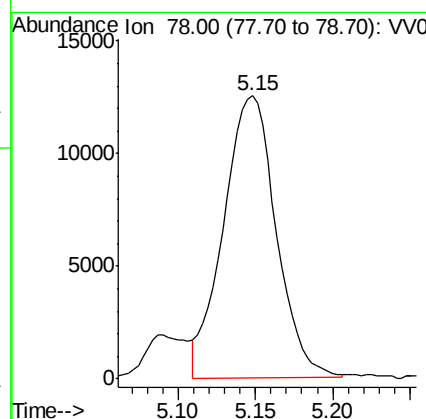
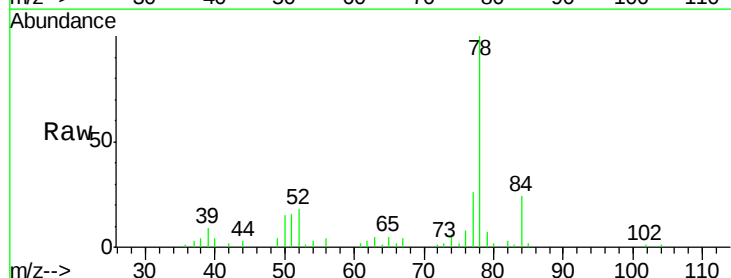
Manual Integrations
APPROVED

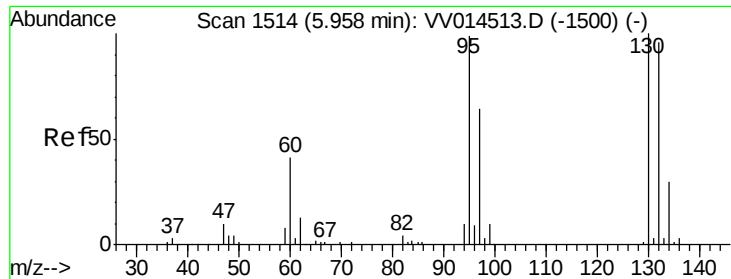
MMDadoda
2/7/2020 1:23:54 PM



#33
Benzene
Concen: 2.676 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion: 78 Resp: 29587





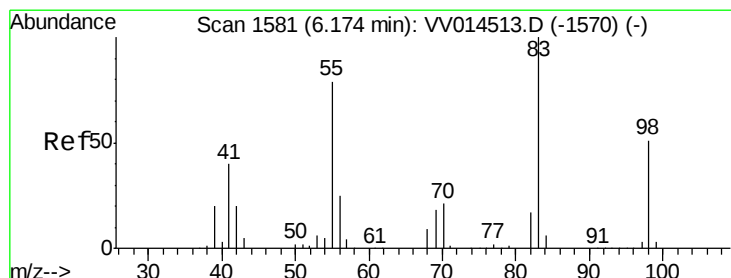
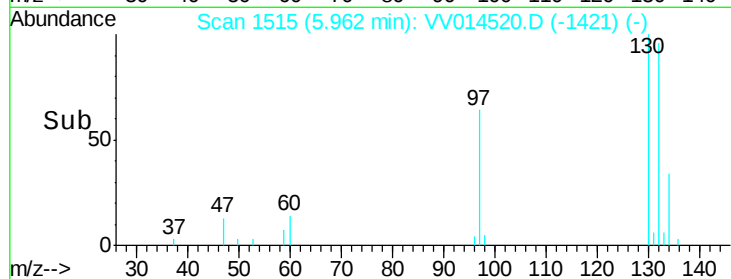
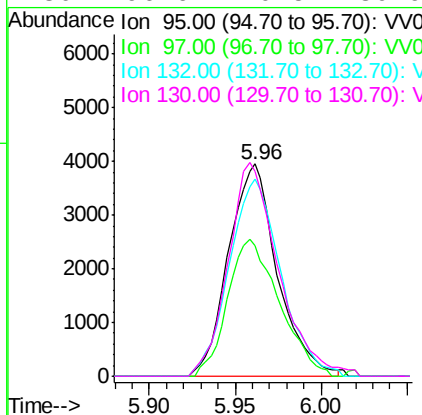
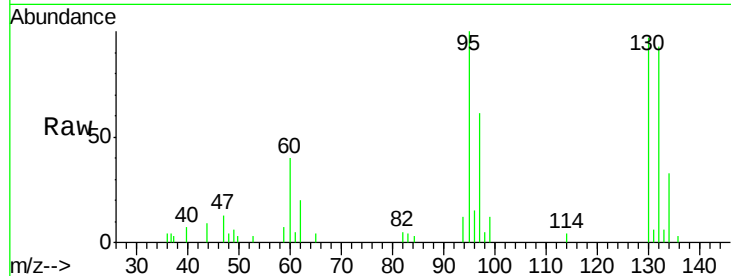
#34
 Trichloroethene
 Concen: 2.665 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion:	95	Resp:	7811
Ion	Ratio	Lower	Upper
95	100		
97	61.5	45.1	83.7
132	92.9	67.7	125.7
130	96.6	70.5	130.9

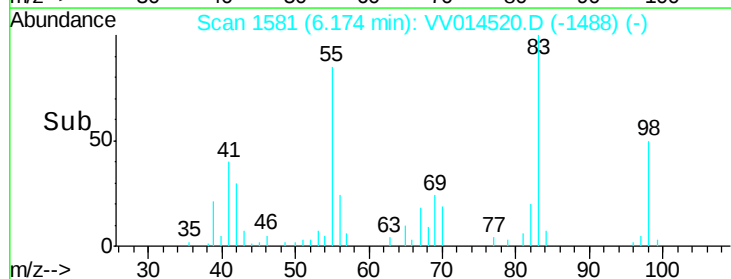
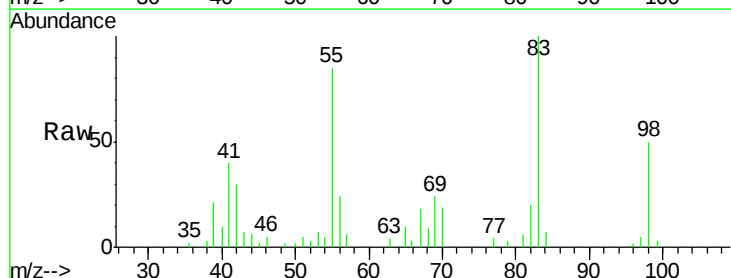
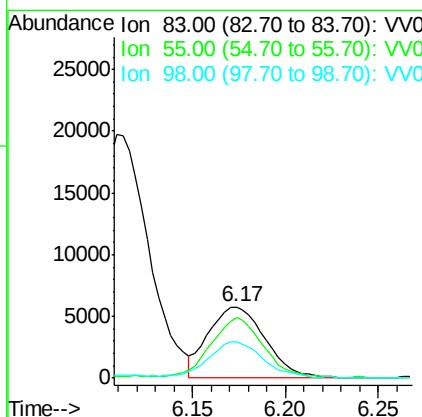
Manual Integrations
 APPROVED

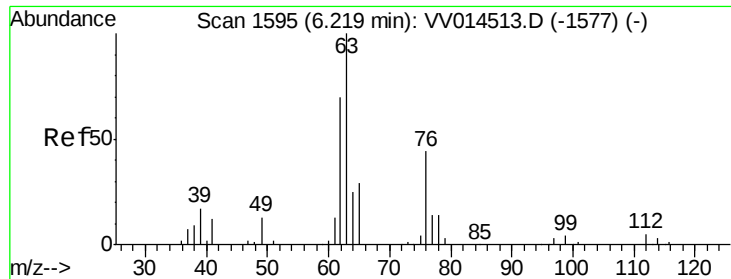
MMDadoda
 2/7/2020 1:23:54 PM



#35
 Methylcyclohexane
 Concen: 2.568 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion:	83	Resp:	12299
Ion	Ratio	Lower	Upper
83	100		
55	77.9	60.7	91.1
98	49.4	39.4	59.0





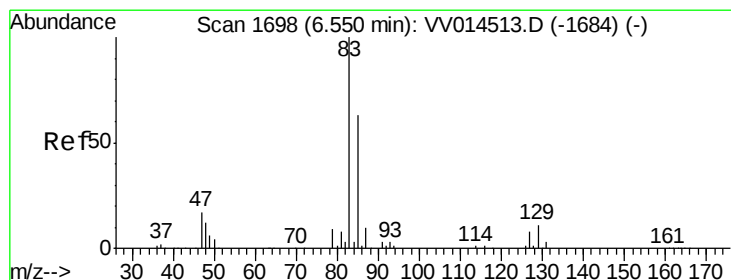
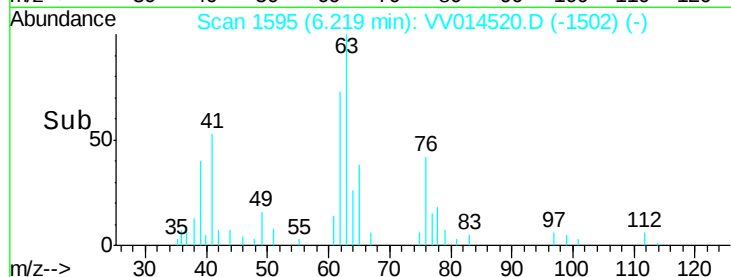
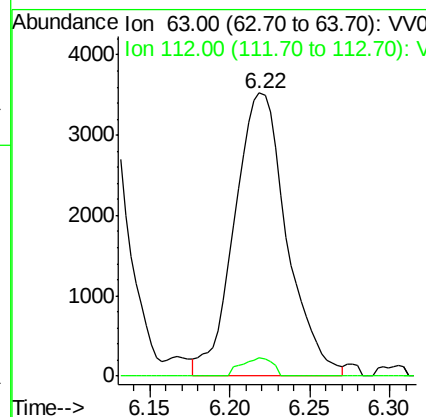
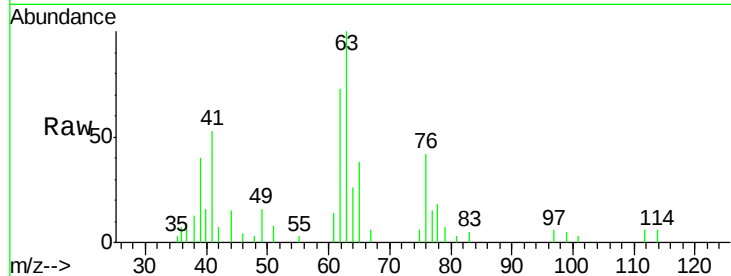
#37
 1,2-Dichloropropane
 Concen: 2.801 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
63	100		
112	3.8	3.7	5.5

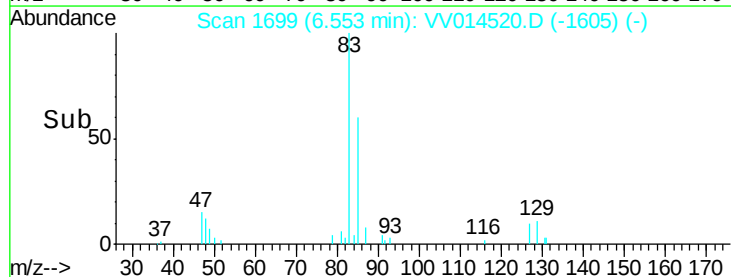
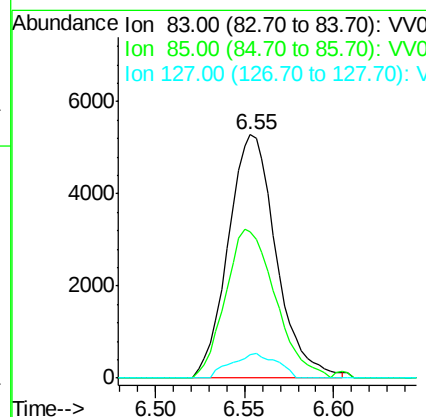
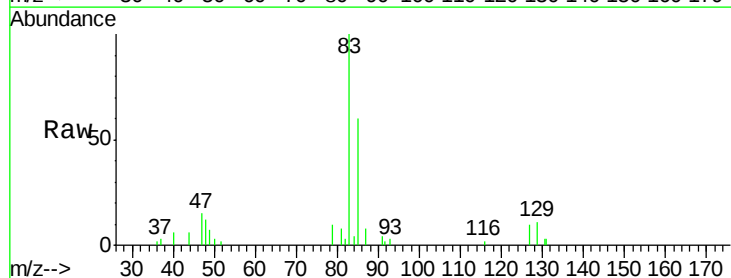
Manual Integrations
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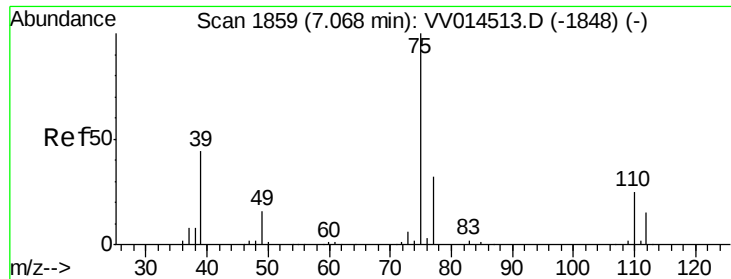
MMDadoda
 2/7/2020 1:23:54 PM



#38
 Bromodichloromethane
 Concen: 2.612 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.3	44.4	82.4
127	9.6	6.7	10.1





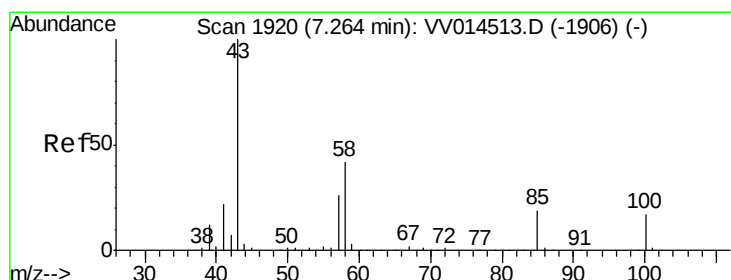
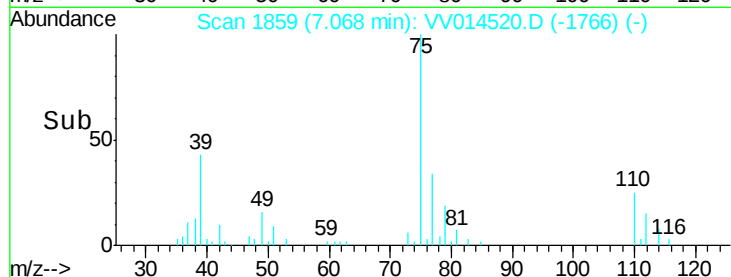
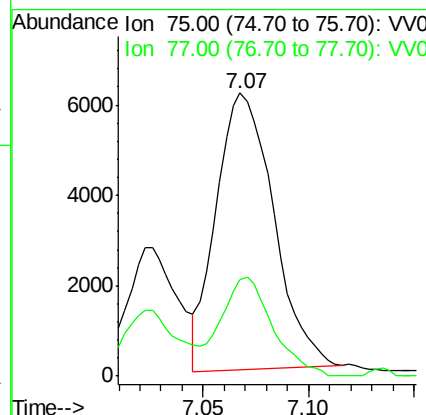
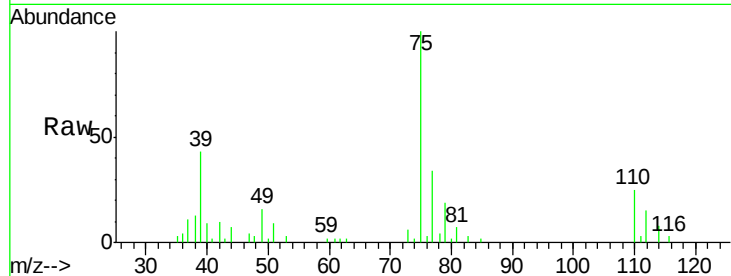
#39
 cis-1,3-Dichloropropene
 Concen: 2.466 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion: 75 Resp: 11585
 Ion Ratio Lower Upper
 75 100
 77 34.1 22.7 42.1

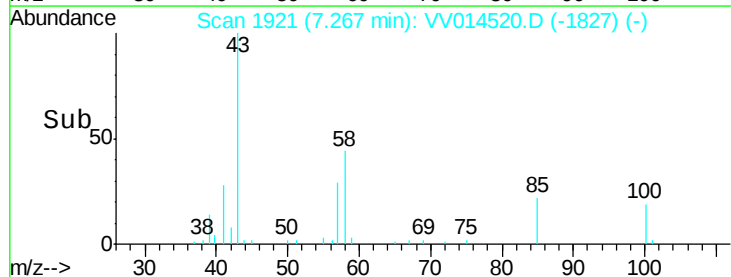
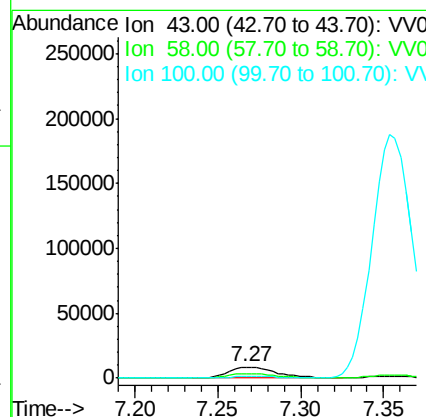
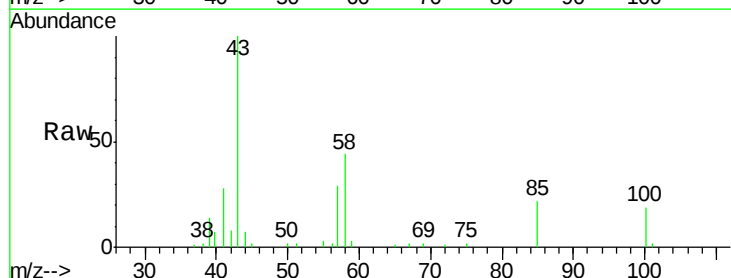
Manual Integrations
 APPROVED

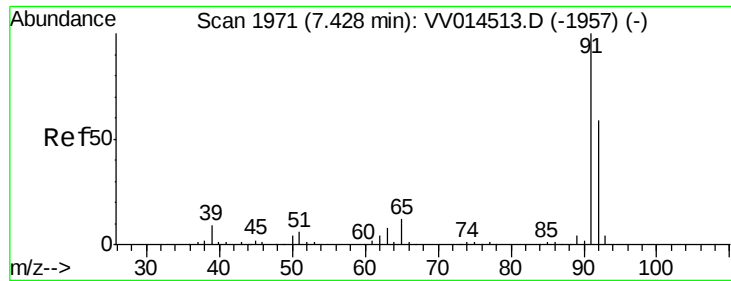
MMDadoda
 2/7/2020 1:23:54 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.703 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion: 43 Resp: 17117
 Ion Ratio Lower Upper
 43 100
 58 43.2 33.2 49.8
 100 16.2 13.9 20.9





#42

Toluene

Concen: 2.740 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 32482

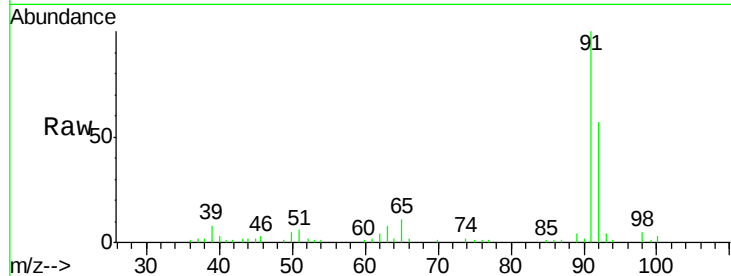
Ion Ratio Lower Upper

91 100

92 57.3 41.6 77.2

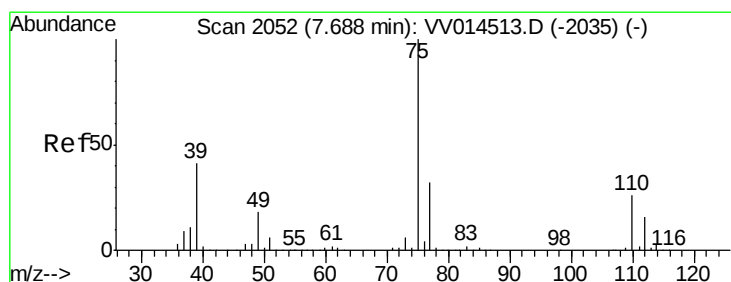
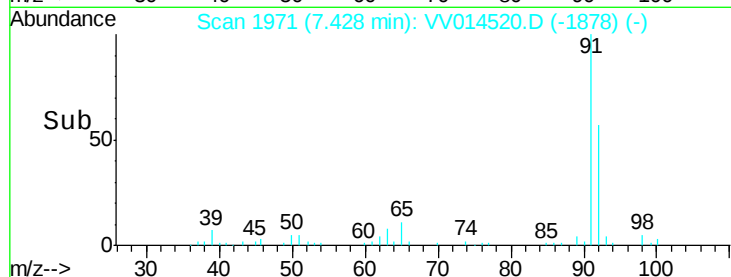
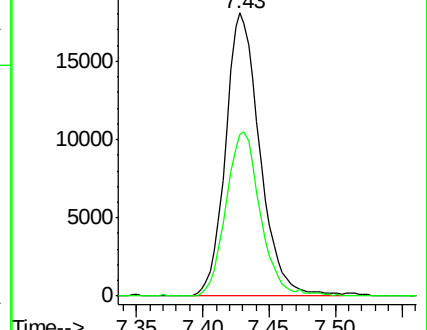
Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:54 PM



Abundance Ion 91.00 (90.70 to 91.70): VV014513.D (-1957) (-)

Ion 92.00 (91.70 to 92.70): VV014513.D (-1957) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.506 ug/L m

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014520.D

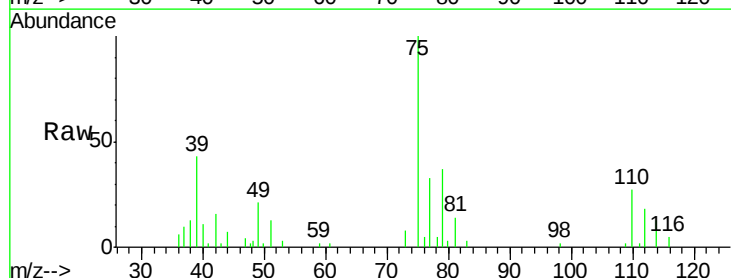
Acq: 06 Feb 2020 15:38

Tgt Ion: 75 Resp: 10558

Ion Ratio Lower Upper

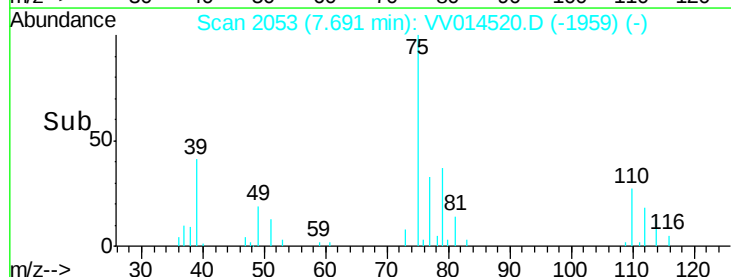
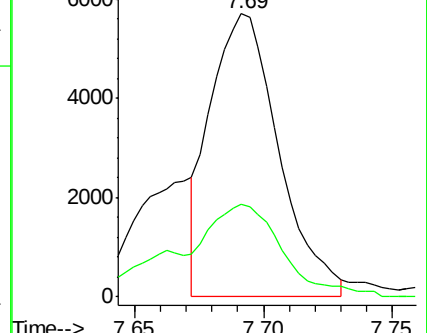
75 100

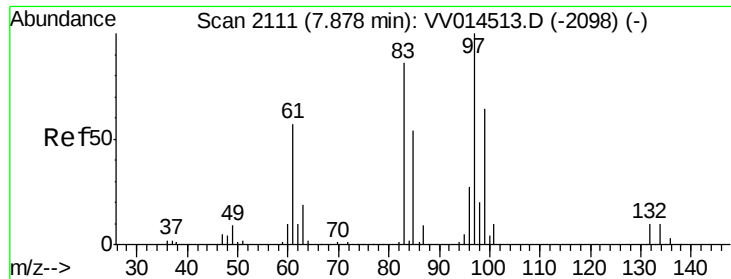
77 32.7 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV014513.D (-2035) (-)

Ion 77.00 (76.70 to 77.70): VV014513.D (-2035) (-)





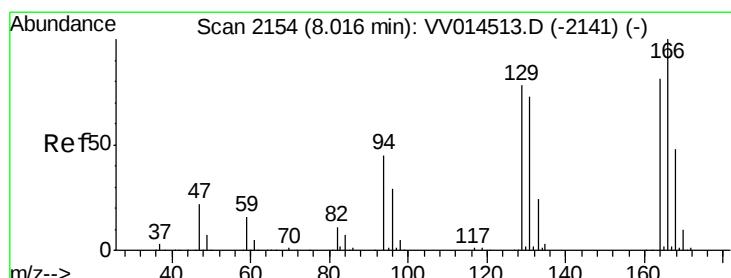
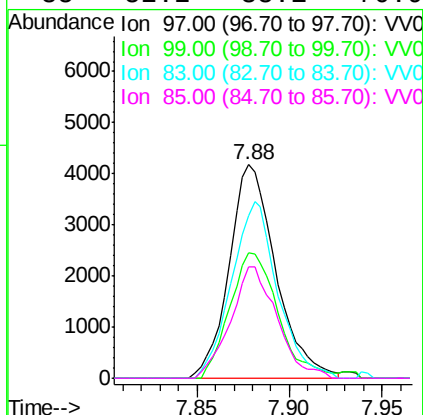
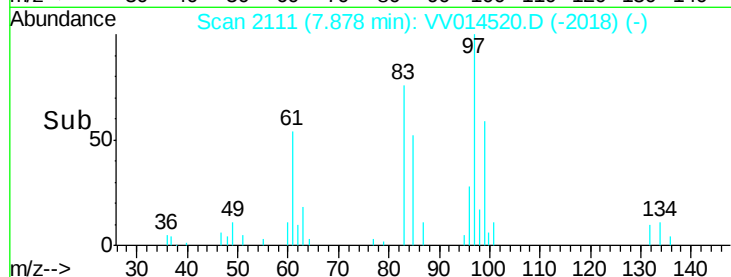
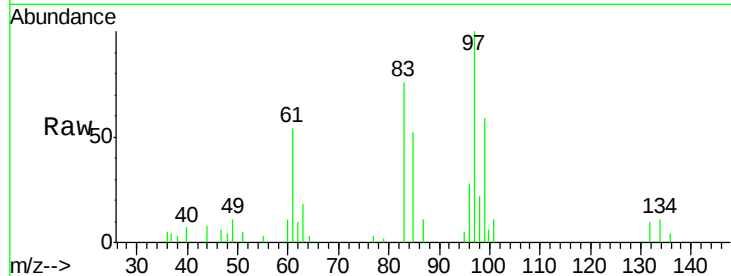
#45
 1,1,2-Trichloroethane
 Concen: 2.699 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

Tot Ion:	97	Resp:	7293
Ion	Ratio	Lower	Upper
97	100		
99	58.8	44.5	82.7
83	76.3	60.1	111.5
85	52.2	38.1	70.9

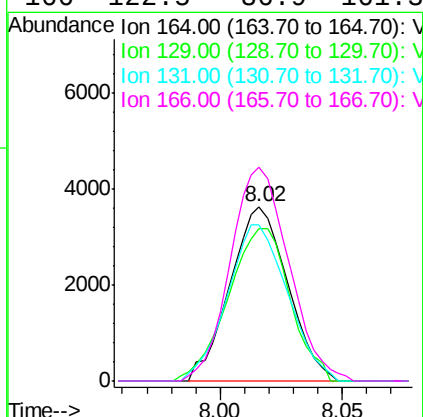
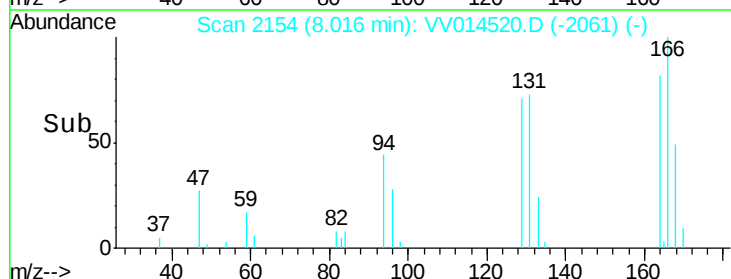
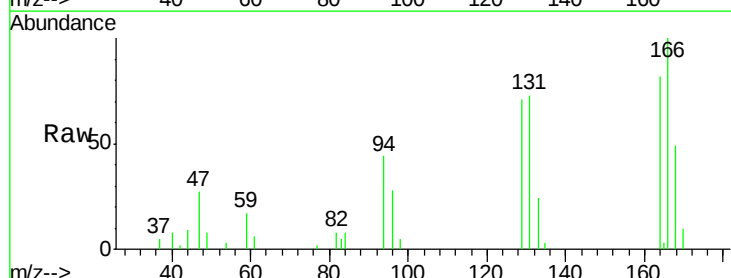
Manual Integrations
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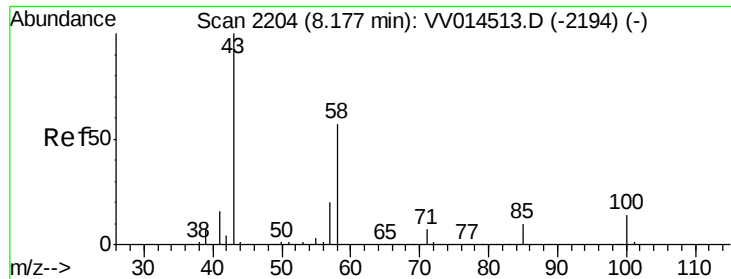
MMDadoda
 2/7/2020 1:23:54 PM



#46
 Tetrachloroethene
 Concen: 2.660 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion:	164	Resp:	5947
Ion	Ratio	Lower	Upper
164	100		
129	87.3	68.0	126.4
131	89.5	63.4	117.8
166	122.5	86.9	161.3





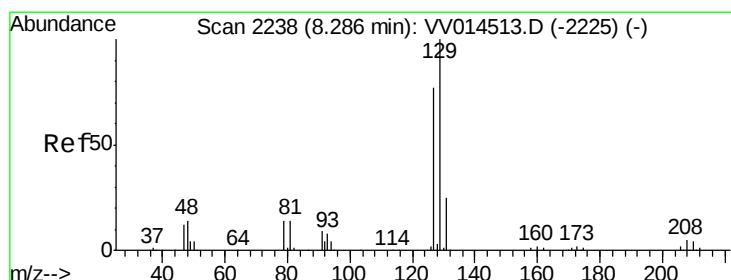
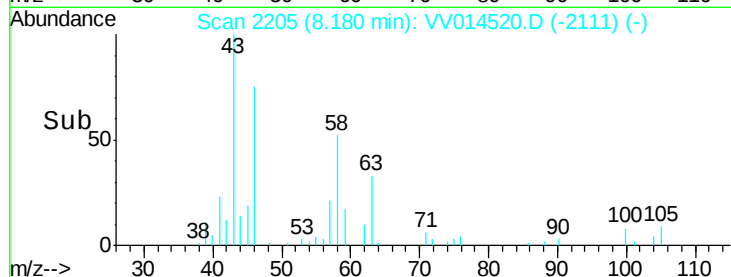
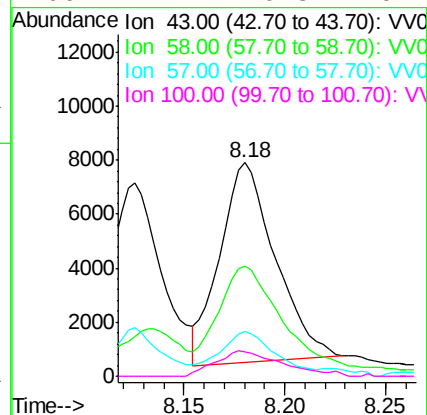
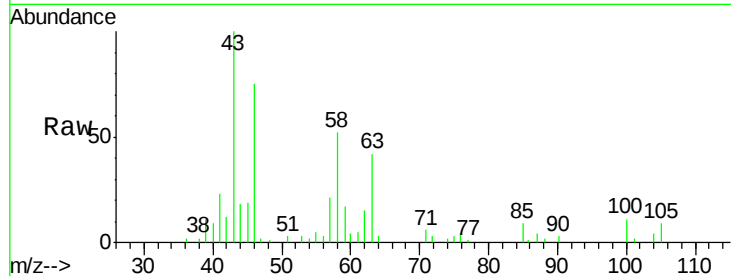
#48
2-Hexanone
Concen: 5.087 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	62.3	45.5	68.3	
57	22.5	15.8	23.6	
100	14.7	10.8	16.2	

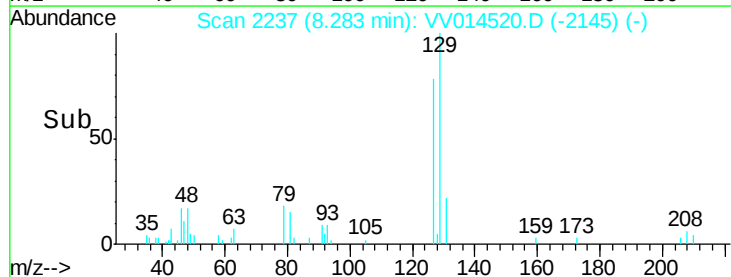
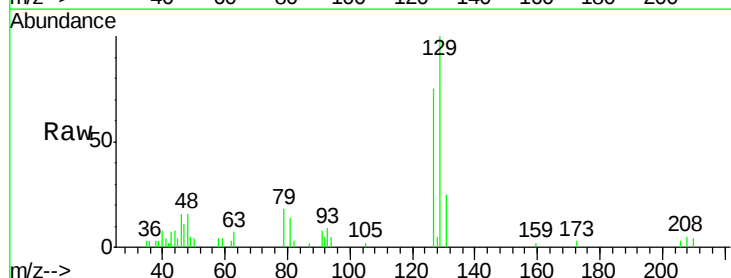
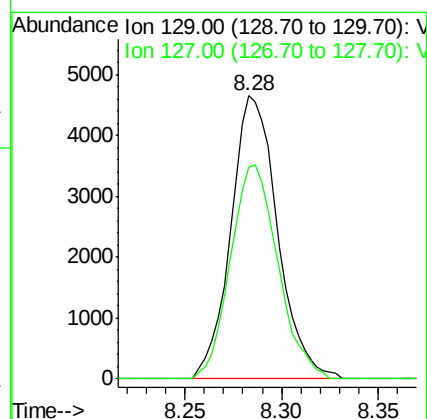
Manual Integrations
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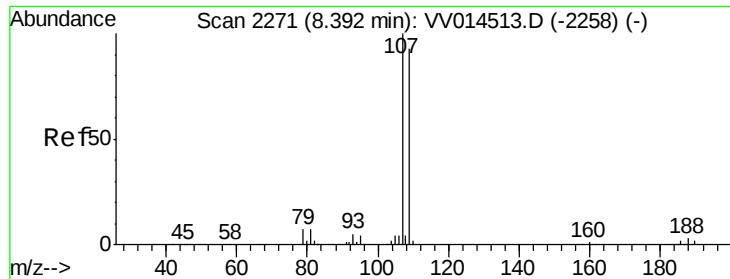
MMDadoda
2/7/2020 1:23:54 PM



#49
Dibromochloromethane
Concen: 2.561 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	74.7	54.1	100.5	





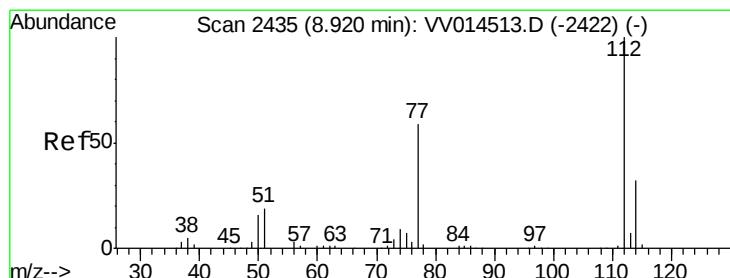
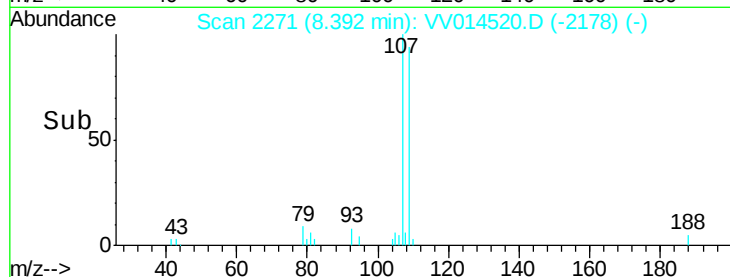
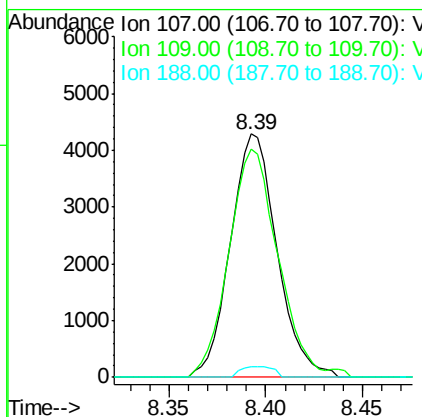
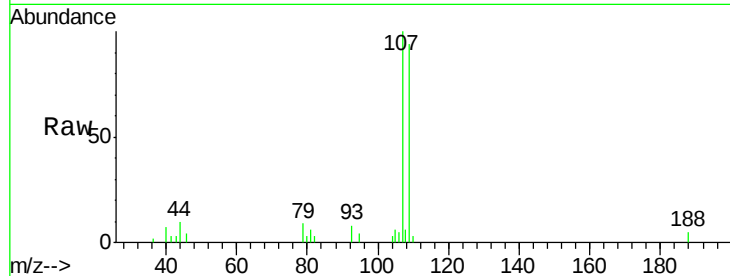
#50
1,2-Dibromoethane
Concen: 2.457 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Resp	Lower	Upper
107	100	7190		
109	93.8	65.2	121.2	
188	4.5	2.6	4.0#	

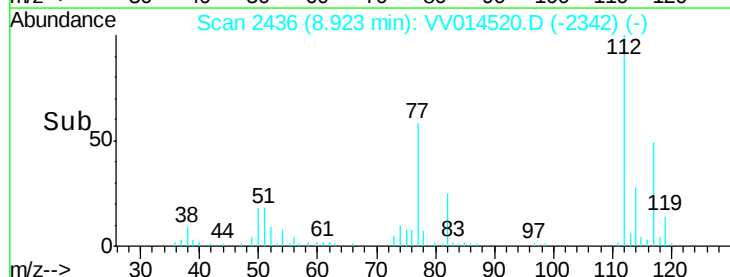
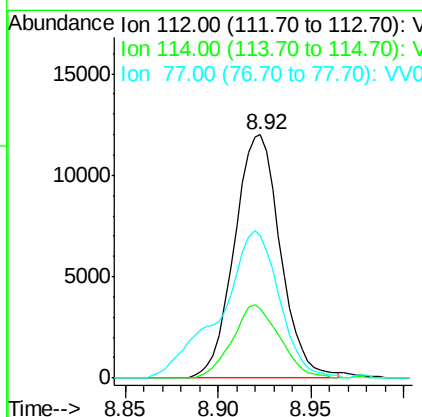
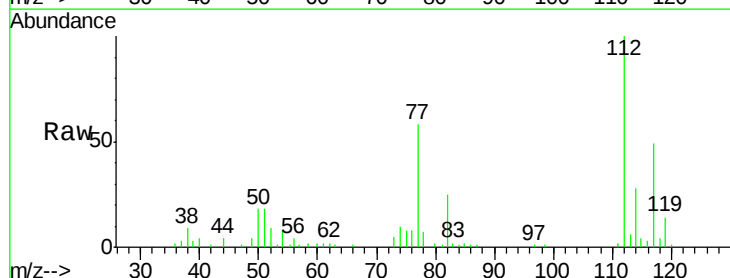
Manual Integrations
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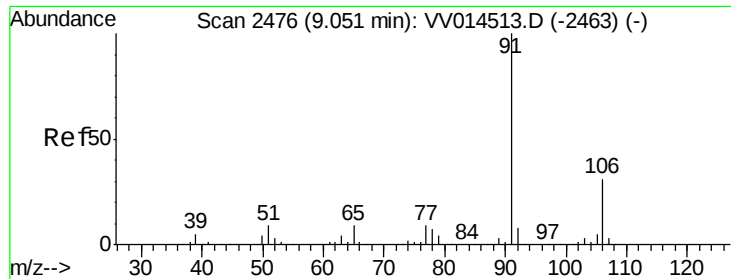
MMDadoda
2/7/2020 1:23:54 PM



#51
Chlorobenzene
Concen: 2.677 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	20731		
114	28.4	22.3	41.5	
77	58.3	47.3	70.9	





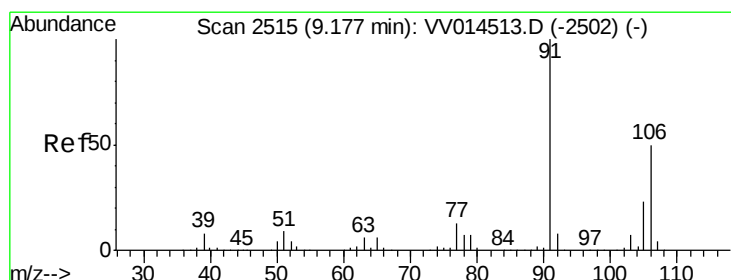
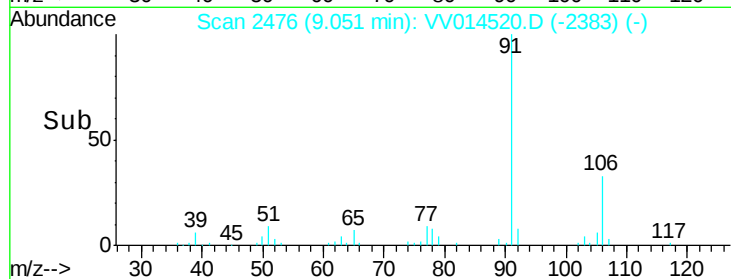
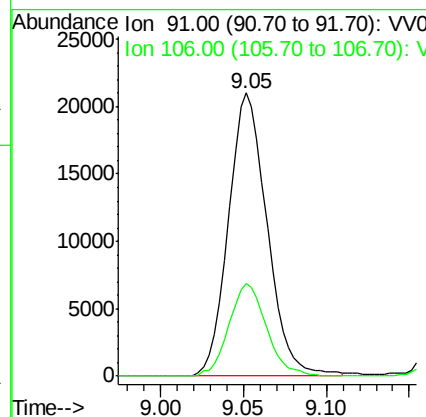
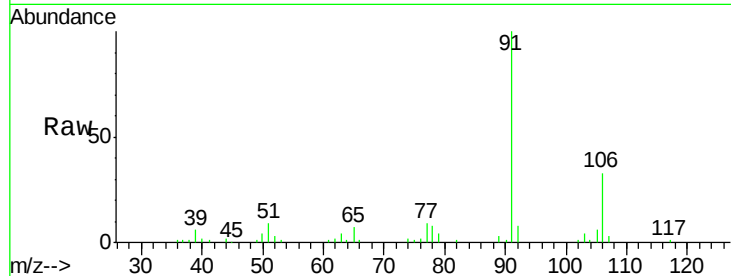
#52
Ethylbenzene
Concen: 2.561 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion: 91 Resp: 34048
Ion Ratio Lower Upper
91 100
106 32.5 21.5 39.9

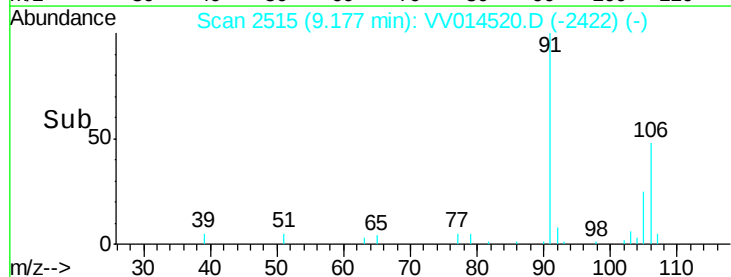
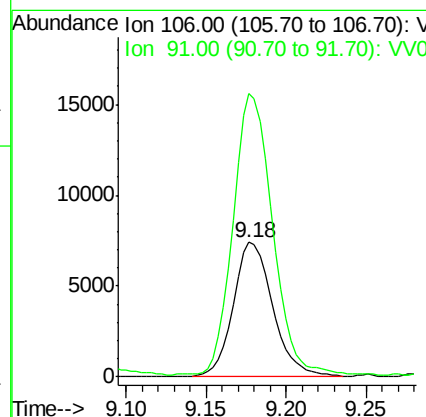
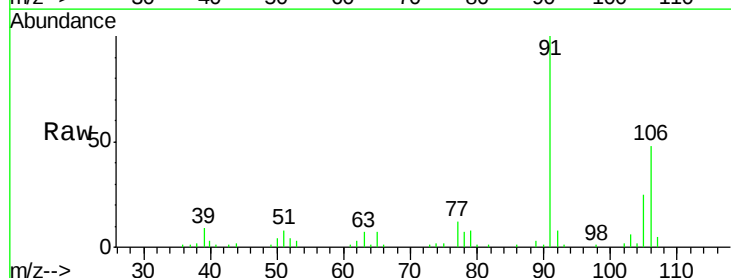
Manual Integrations
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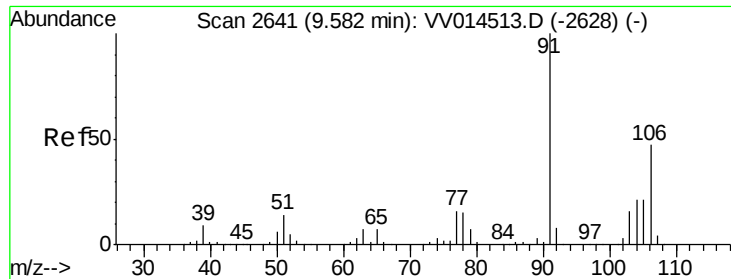
MMDadoda
2/7/2020 1:23:54 PM



#53
m,p-Xylene
Concen: 2.448 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion: 106 Resp: 12538
Ion Ratio Lower Upper
106 100
91 210.2 141.4 262.6





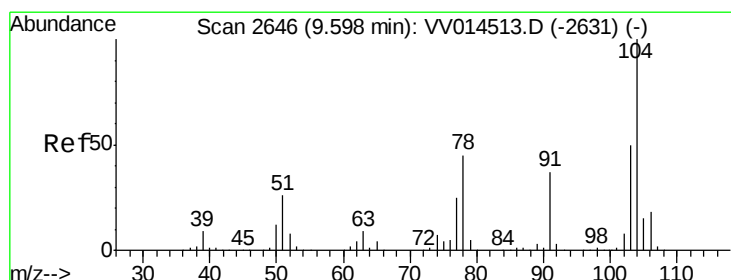
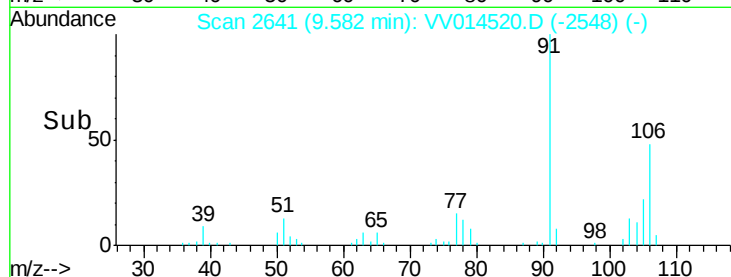
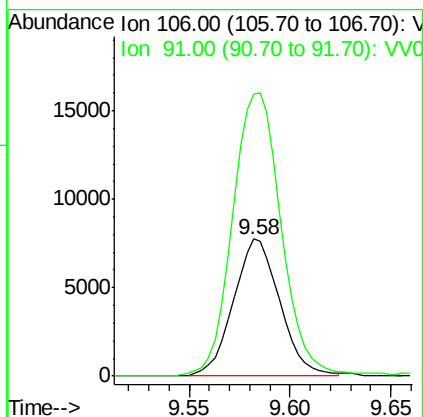
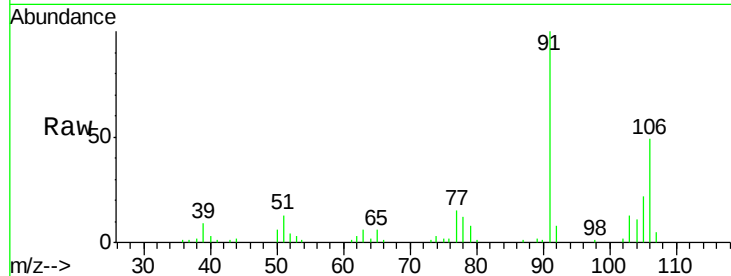
#54
o-Xylene
Concen: 2.557 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion:106 Resp: 12535
Ion Ratio Lower Upper
106 100
91 205.8 149.4 277.4

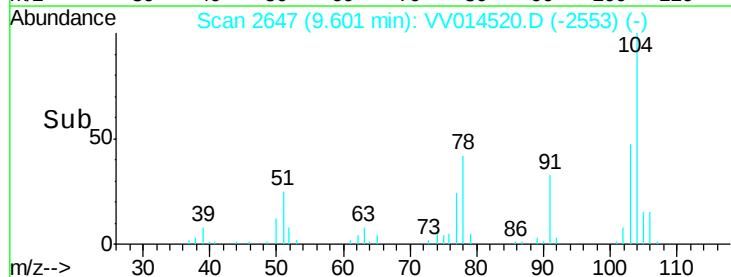
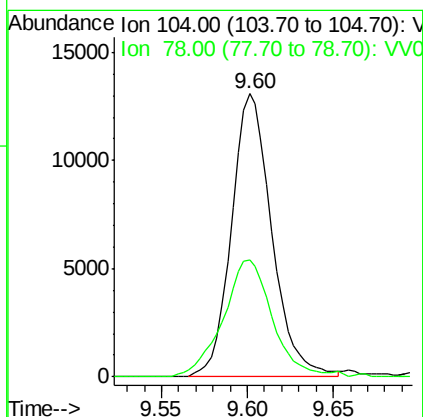
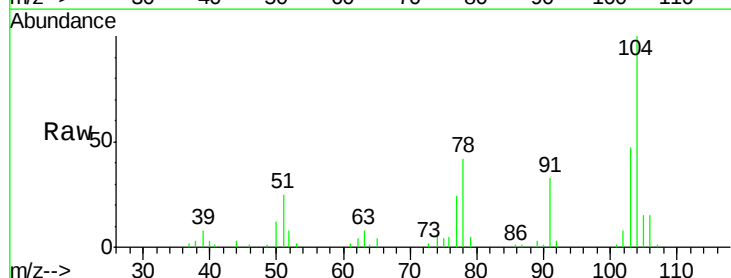
Manual Integrations
APPROVED

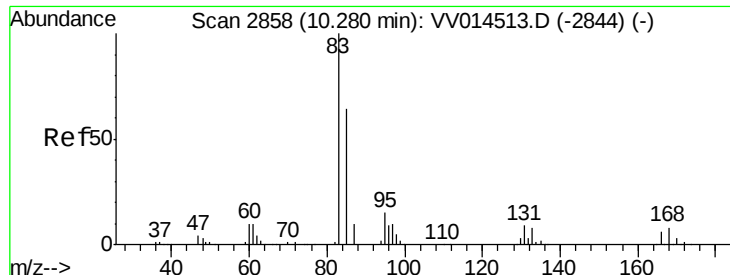
MMDadoda
2/7/2020 1:23:54 PM



#55
Styrene
Concen: 2.556 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion:104 Resp: 21415
Ion Ratio Lower Upper
104 100
78 41.5 31.6 58.8





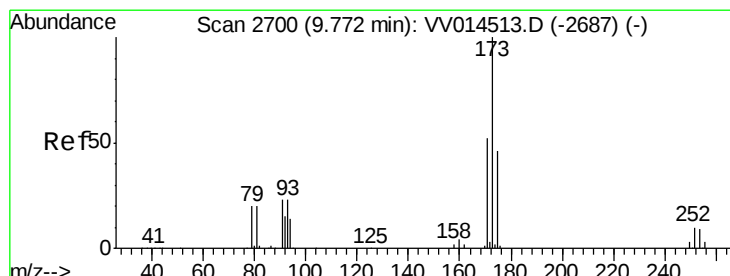
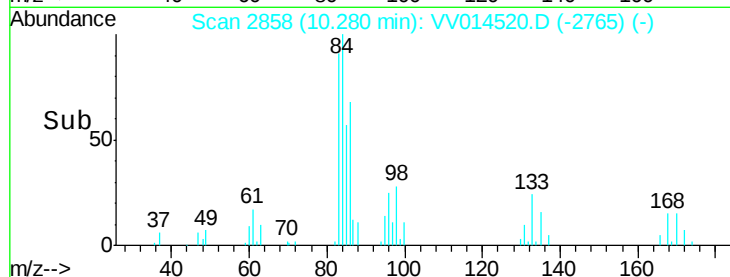
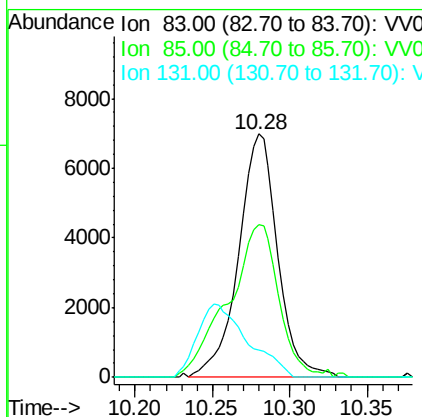
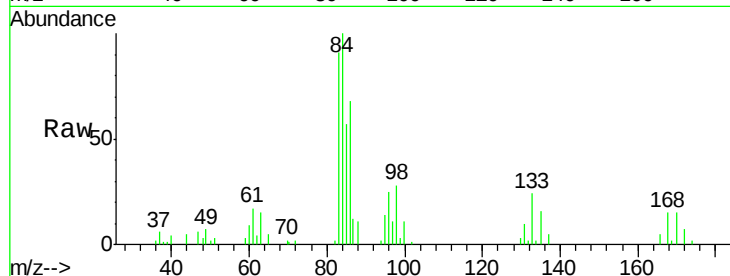
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.901 ug/L
 RT: 10.28 min Scan# 2858
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
83	100		
85	62.5	45.2	84.0
131	11.4	7.8	11.8

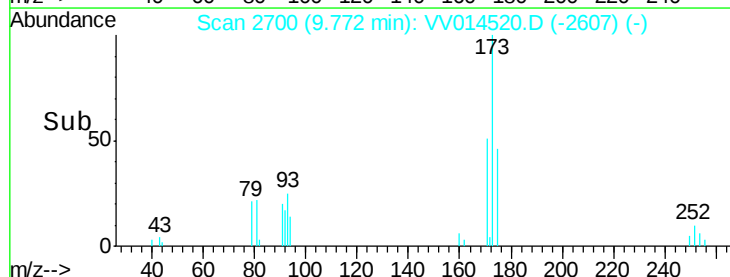
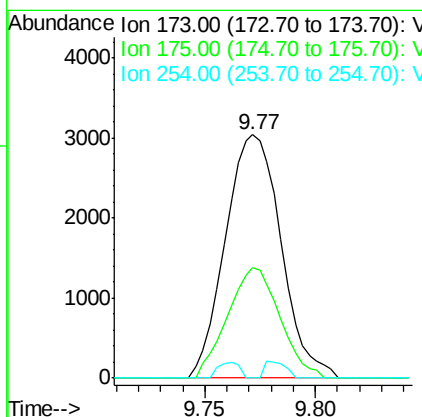
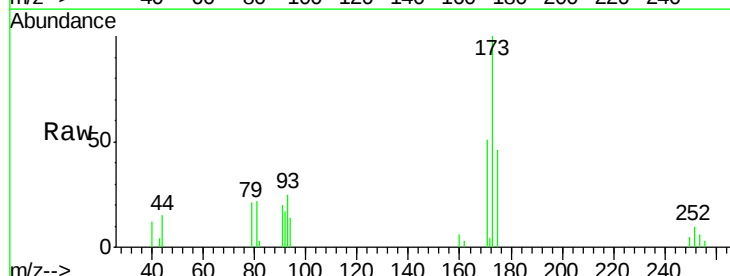
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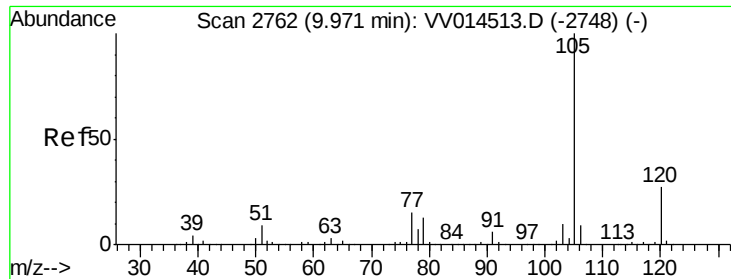
MMDadoda
 2/7/2020 1:23:54 PM



#59
 Bromoform
 Concen: 2.475 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion	Ratio	Lower	Upper
173	100		
175	42.4	37.8	56.8
254	2.6	7.0	10.6#





#60

Isopropylbenzene

Concen: 2.488 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

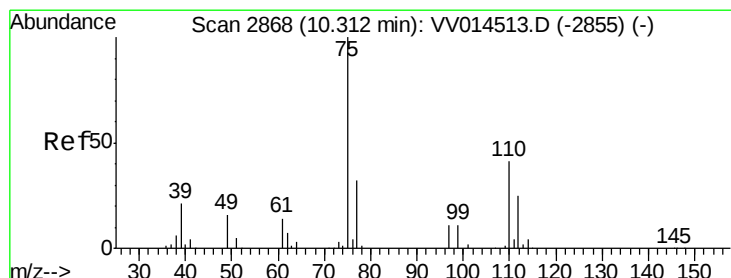
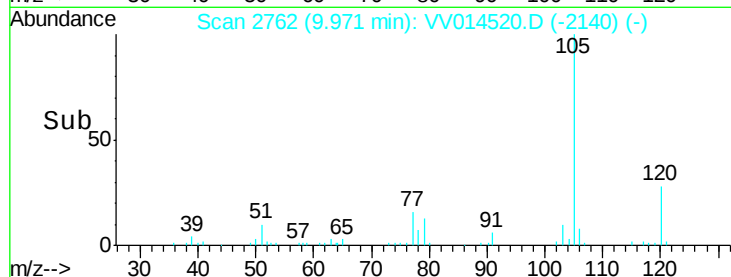
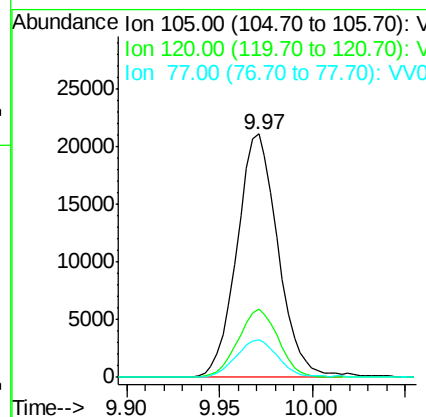
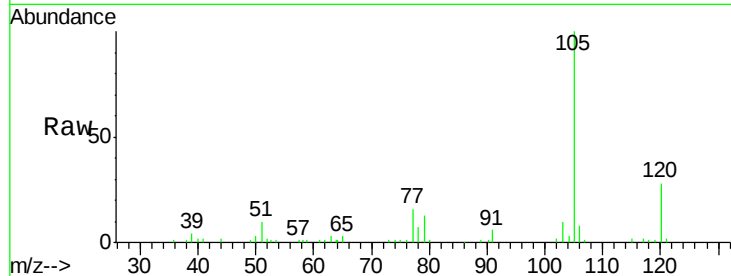
ClientSampled :

MDL02

Tot Ion:	105	Resp:	32467
Ion Ratio	Lower	Upper	
105	100		
120	27.3	21.5	32.3
77	15.8	12.2	18.4

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2/7/2020 1:23:54 PM



#61

1,2,3-Trichloropropane

Concen: 2.589 ug/L

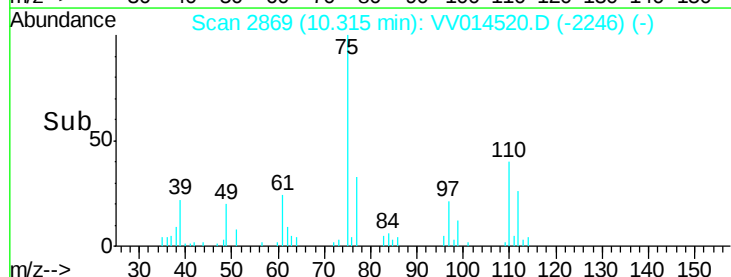
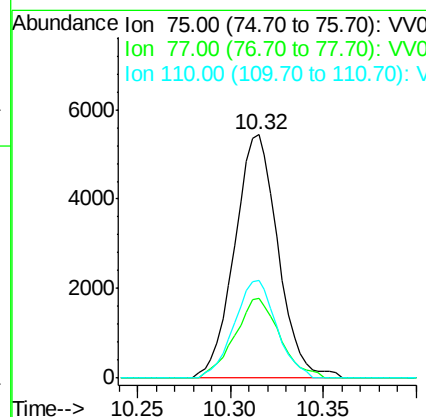
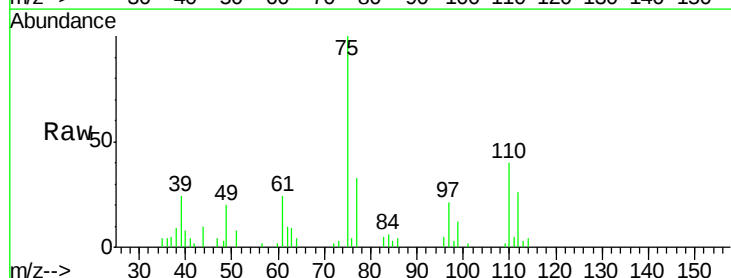
RT: 10.32 min Scan# 2869

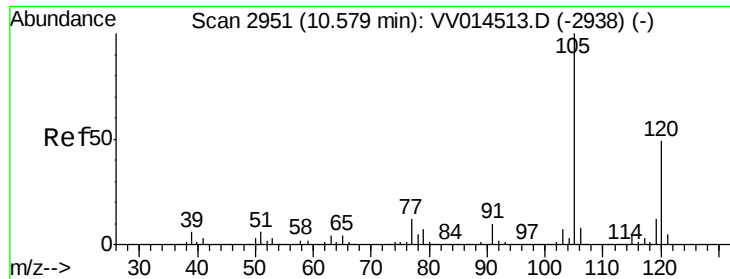
Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Tgt Ion:	75	Resp:	8848
Ion Ratio	Lower	Upper	
75	100		
77	33.9	25.8	38.8
110	39.2	32.4	48.6





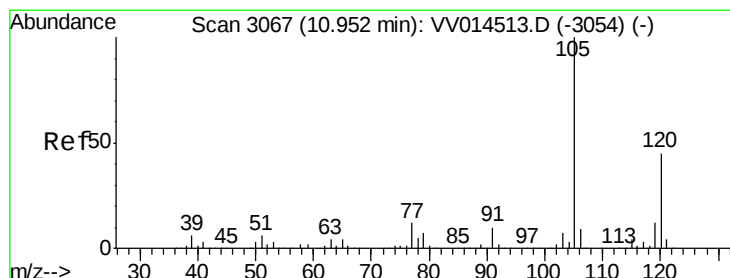
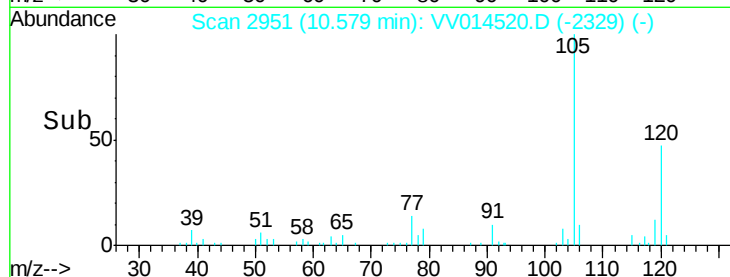
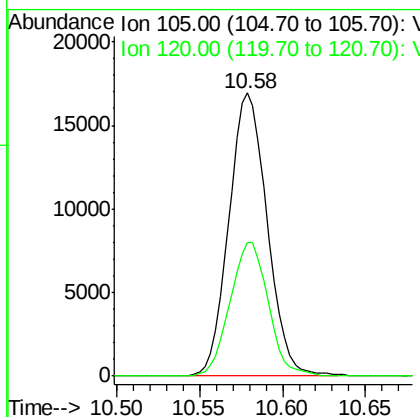
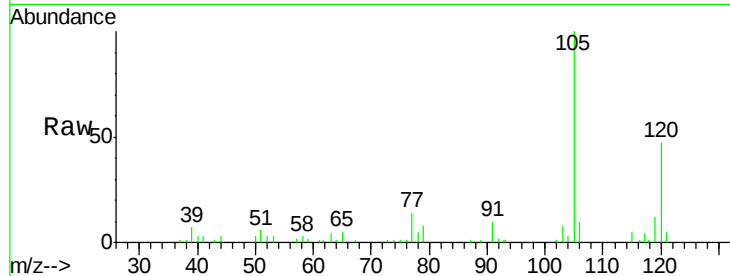
#62
 1,3,5-Trimethylbenzene
 Concen: 2.442 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

Tot Ion:105 Resp: 27278
 Ion Ratio Lower Upper
 105 100
 120 47.0 39.0 58.6

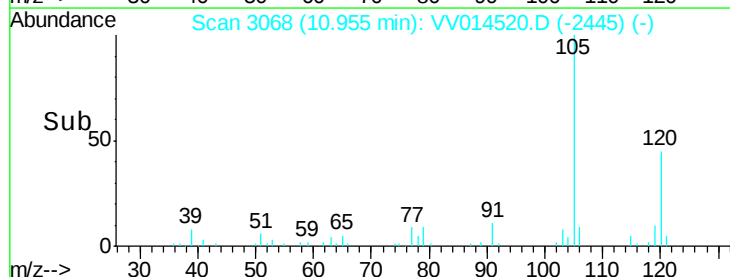
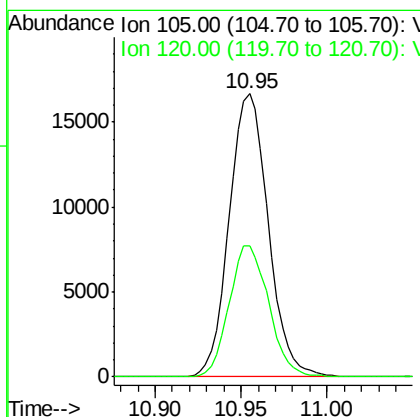
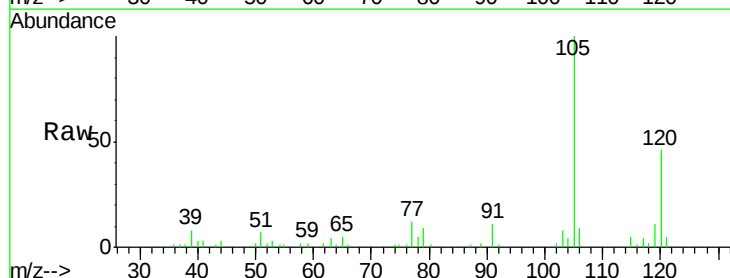
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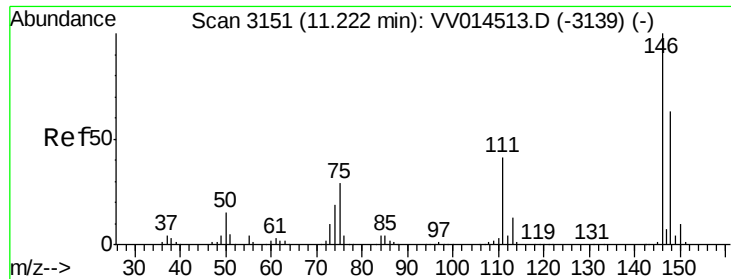
MMDadoda
 2/7/2020 1:23:54 PM



#63
 1,2,4-Trimethylbenzene
 Concen: 2.392 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion:105 Resp: 26340
 Ion Ratio Lower Upper
 105 100
 120 46.8 36.2 54.4





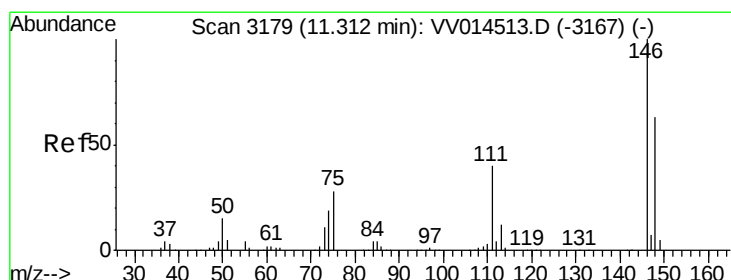
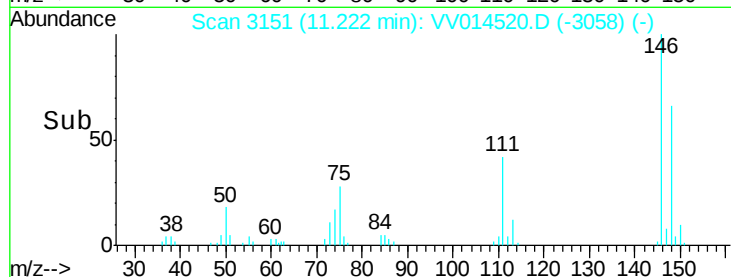
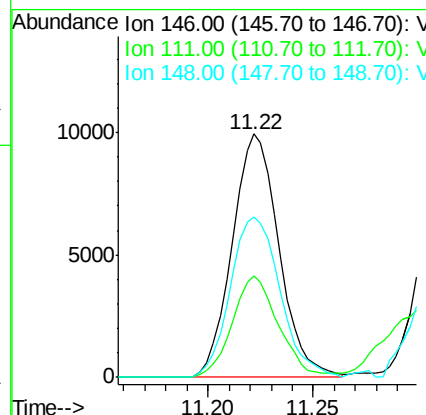
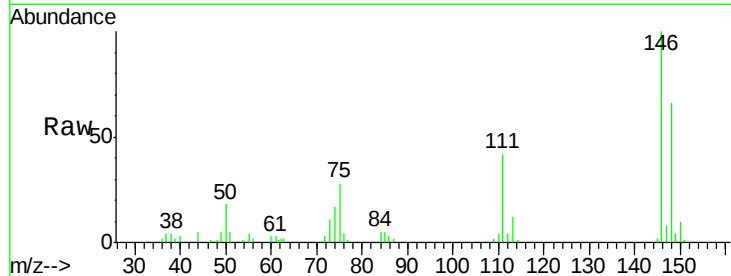
#64
 1,3-Dichlorobenzene
 Concen: 2.491 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	28.9	53.7
148	65.7	44.4	82.5

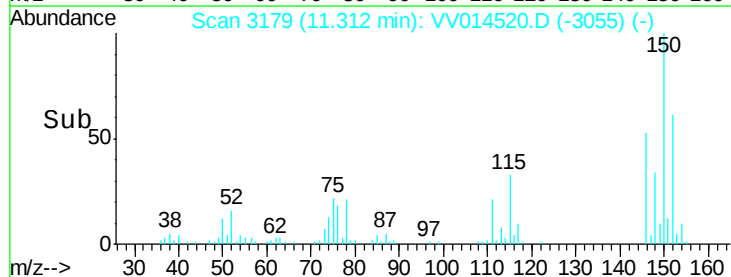
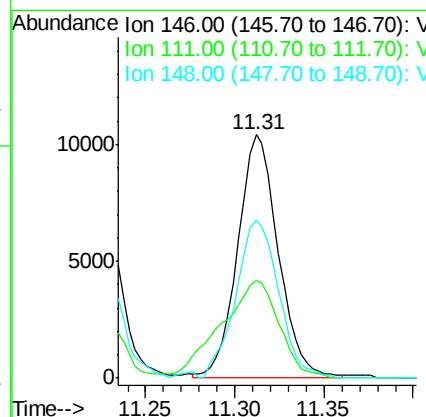
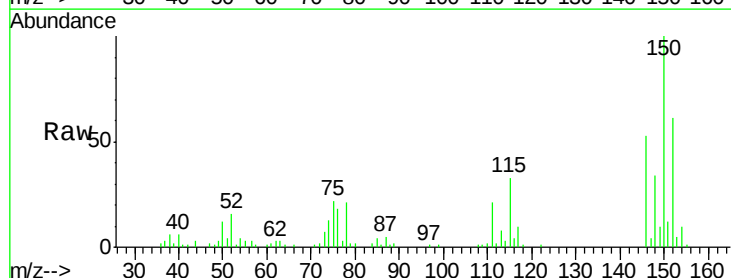
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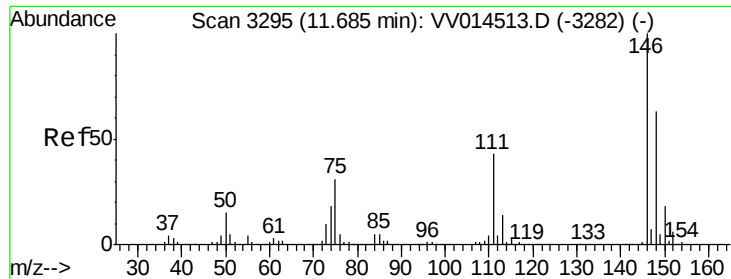
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 2/7/2020 1:23:54 PM



#65
 1,4-Dichlorobenzene
 Concen: 2.615 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	28.1	52.3
148	64.7	44.4	82.4





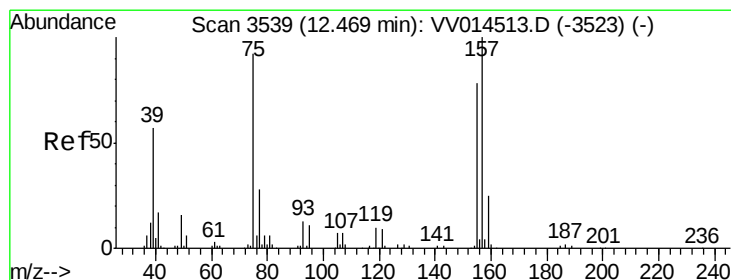
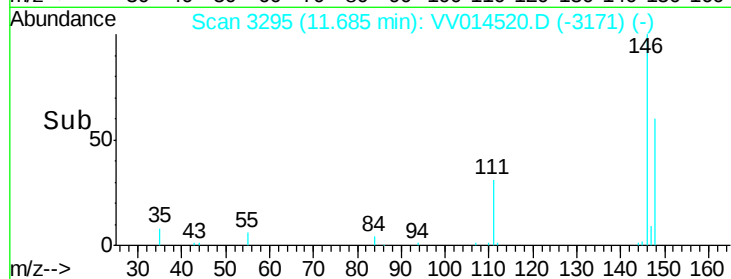
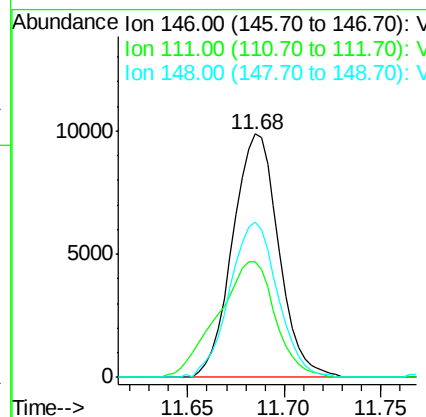
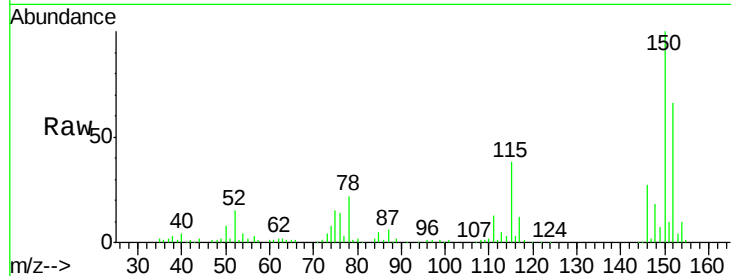
#67
 1,2-Dichlorobenzene
 Concen: 2.737 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	34.6	51.8
148	64.0	50.2	75.4

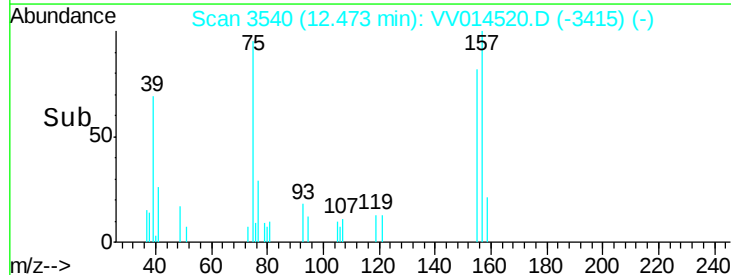
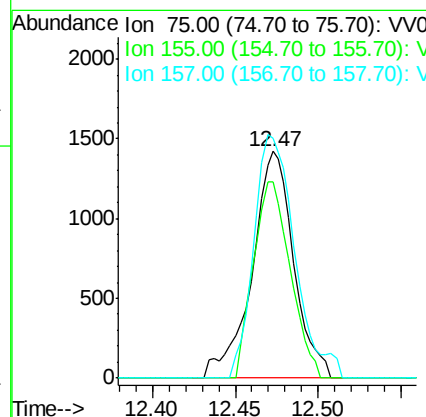
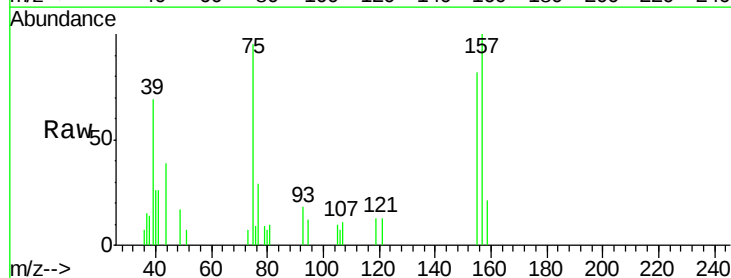
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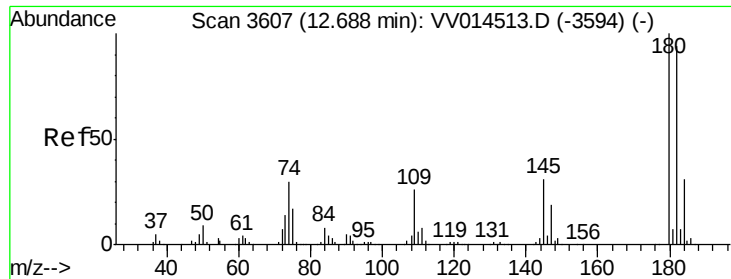
MMDadoda
 2/7/2020 1:23:54 PM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.589 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.8	68.3	102.5
157	105.7	87.1	130.7





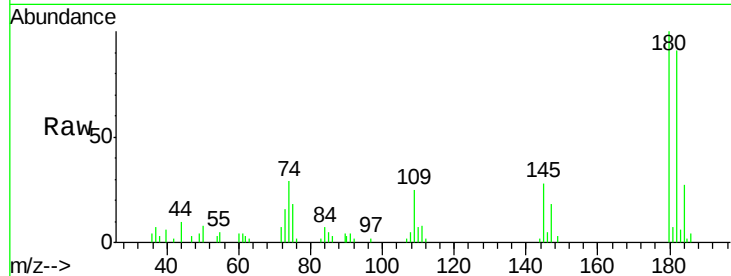
#69
 1,3,5-Trichlorobenzene
 Concen: 2.549 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

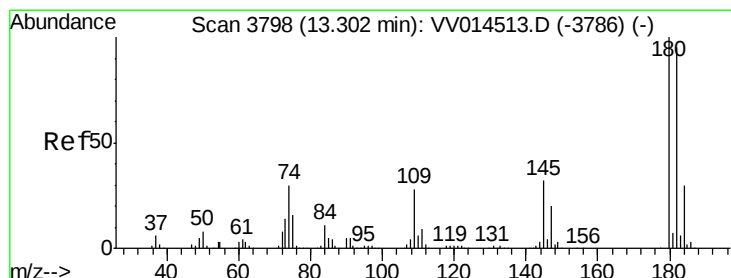
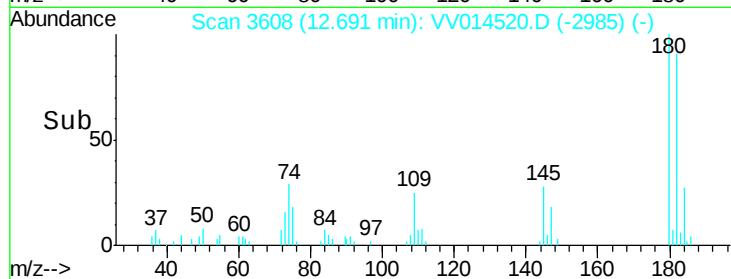
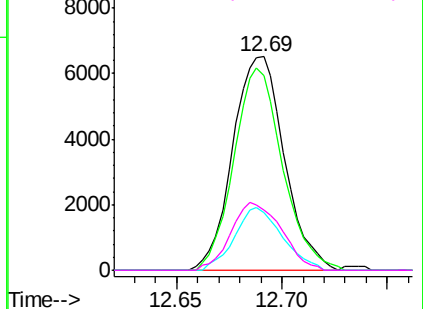
Tot Ion:	180	Resp:	11054
Ion	Ratio	Lower	Upper
180	100		
182	89.6	75.0	112.4
184	27.1	24.2	36.2
145	31.1	24.3	36.5

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 2/7/2020 1:23:54 PM

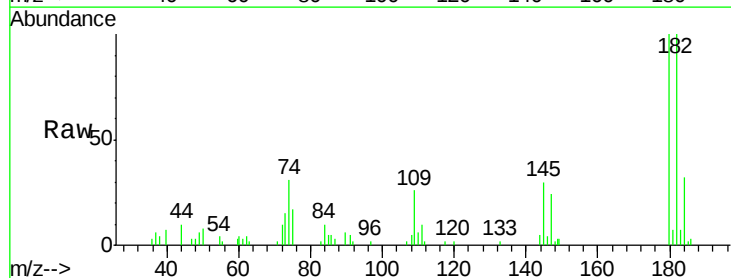


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

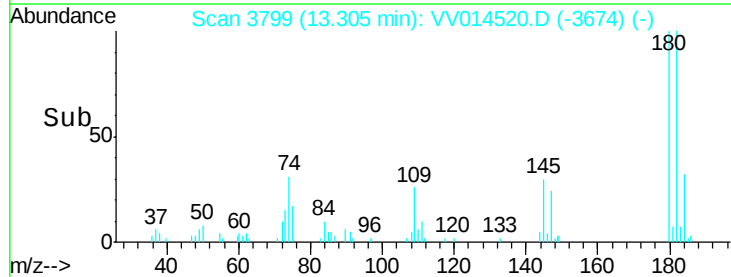
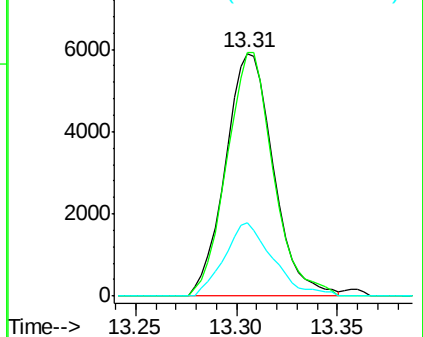


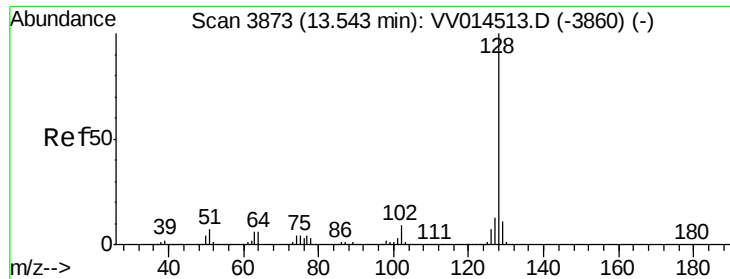
#70
 1,2,4-trichlorobenzene
 Concen: 2.469 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion:	180	Resp:	9829
Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.0	114.0
145	30.3	25.3	37.9



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





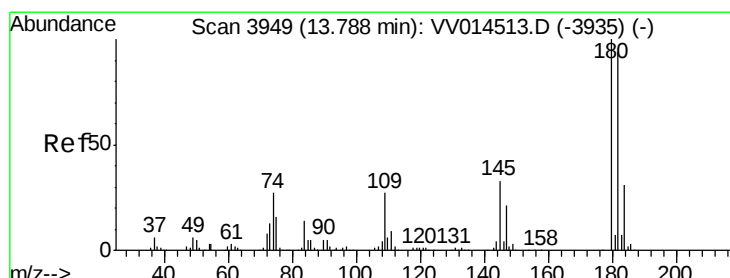
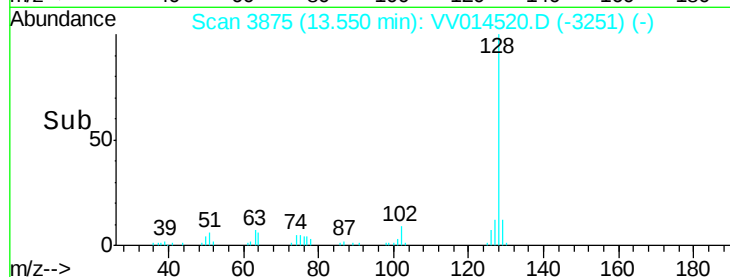
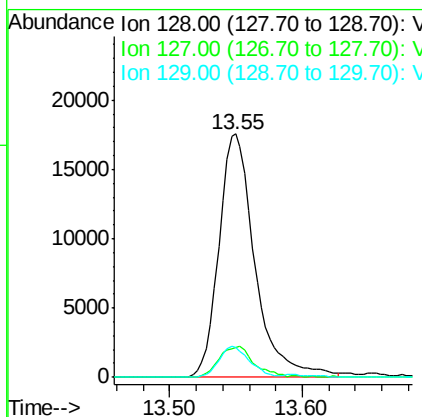
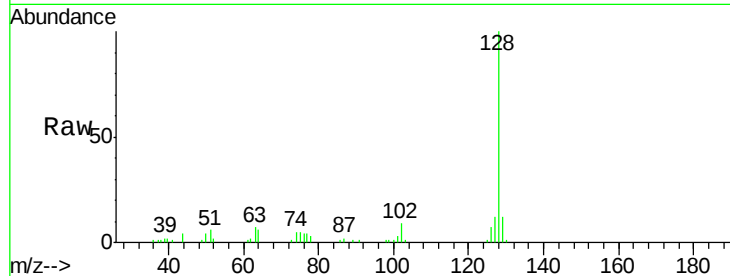
#71
Naphthalene
Concen: 2.537 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.01 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.3	15.5
129	11.0	8.7	13.1

Manual Integrations
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2/7/2020 1:23:54 PM



#72
1,2,3-Trichlorobenzene
Concen: 2.466 ug/L
RT: 13.79 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.2	75.2	112.8
145	37.6	27.1	40.7

