

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021020\
 Data File : VV014547.D
 Acq On : 10 Feb 2020 13:22
 Operator : SY/MD
 Sample : MDL03
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 2/12/2020 3:06:17 PM

Quant Time: Feb 11 05:05:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 04:43:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	338334	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	315478	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	158176	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	70217	38.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.54%
7) Chloroethane-d5	1.59	69	53143	42.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.06%
11) 1,1-Dichloroethene-d2	2.13	63	90058	32.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.64%
21) 2-Butanone-d5	3.92	46	130920	92.44	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.44%
24) Chloroform-d	4.40	84	197620	47.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.52%
26) 1,2-Dichloroethane-d4	5.08	65	125191	49.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.10%
32) Benzene-d6	5.10	84	413004	47.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.56%
36) 1,2-Dichloropropane-d6	6.11	67	128574	48.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.00%
41) Toluene-d8	7.36	98	389549	48.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.86%
43) trans-1,3-Dichloropropene-	7.66	79	67670	47.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.22%
47) 2-Hexanone-d5	8.13	63	108699	95.38	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.38%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	170235	48.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.88%
66) 1,2-Dichlorobenzene-d4	11.67	152	153307	50.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.08%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	6888	2.541 ug/L	96
3) Chloromethane	1.26	50	6177	2.251 ug/L	92
5) Vinyl chloride	1.33	62	4424	2.105 ug/L #	58
6) Bromomethane	1.54	94	2028	2.098 ug/L	96
8) Chloroethane	1.60	64	2329	2.230 ug/L	86
9) Trichlorofluoromethane	1.77	101	7067	2.496 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4078	2.999 ug/L #	81
12) 1,1-Dichloroethene	2.14	96	3752	2.885 ug/L #	1
13) Acetone	2.19	43	7560	6.375 ug/L	99
14) Carbon disulfide	2.32	76	14059	2.227 ug/L	100
15) Methyl Acetate	2.46	43	5202	2.281 ug/L	93
16) Methylene chloride	2.54	84	7085	2.869 ug/L	91
17) trans-1,2-Dichloroethene	2.79	96	5244	2.289 ug/L	92
18) Methyl tert-butyl Ether	2.80	73	17908	2.468 ug/L #	92
19) 1,1-Dichloroethane	3.23	63	10337	2.523 ug/L	95
20) cis-1,2-Dichloroethene	3.96	96	6344	2.461 ug/L	99
22) 2-Butanone	4.02	43	6676m	3.807 ug/L	

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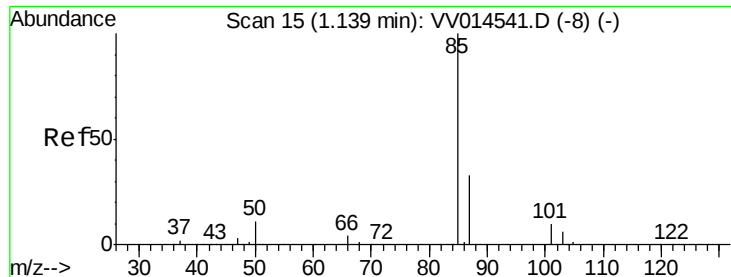
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	2843	2.329	ug/L	97
25) Chloroform	4.43	83	13781	3.308	ug/L	99
27) 1,2-Dichloroethane	5.18	62	7441	2.397	ug/L	95
29) Cyclohexane	4.72	56	8957	2.309	ug/L	95
30) 1,1,1-Trichloroethane	4.66	97	8665	2.407	ug/L	95
31) Carbon tetrachloride	4.87	117	7965	2.508	ug/L	100
33) Benzene	5.15	78	22511	2.427	ug/L	100
34) Trichloroethene	5.96	95	6044	2.458	ug/L	92
35) Methylcyclohexane	6.17	83	10309	2.566	ug/L	92
37) 1,2-Dichloropropane	6.22	63	5368	2.272	ug/L	100
38) Bromodichloromethane	6.56	83	7826	2.468	ug/L	95
39) cis-1,3-Dichloropropene	7.07	75	9878	2.507	ug/L	93
40) 4-Methyl-2-pentanone	7.27	43	12453	4.079	ug/L	95
42) Toluene	7.43	91	25291	2.543	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	8429	2.385	ug/L	96
45) 1,1,2-Trichloroethane	7.88	97	5542	2.445	ug/L	95
46) Tetrachloroethene	8.02	164	4650	2.479	ug/L	98
48) 2-Hexanone	8.18	43	10506	4.470	ug/L #	87
49) Dibromochloromethane	8.29	129	6354	2.483	ug/L	93
50) 1,2-Dibromoethane	8.40	107	6184	2.519	ug/L #	96
51) Chlorobenzene	8.92	112	16592	2.554	ug/L	97
52) Ethylbenzene	9.05	91	26741	2.398	ug/L	98
53) m,p-Xylene	9.18	106	10350	2.409	ug/L	97
54) o-Xylene	9.59	106	9682	2.355	ug/L	98
55) Styrene	9.60	104	16267	2.315	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.28	83	10062	2.833	ug/L #	91
59) Bromoform	9.77	173	4024	2.281	ug/L #	94
60) Isopropylbenzene	9.97	105	26091	2.439	ug/L	98
61) 1,2,3-Trichloropropane	10.31	75	6761	2.414	ug/L	90
62) 1,3,5-Trimethylbenzene	10.58	105	20970	2.290	ug/L	96
63) 1,2,4-Trimethylbenzene	10.95	105	20461	2.266	ug/L	98
64) 1,3-Dichlorobenzene	11.22	146	12420	2.462	ug/L	97
65) 1,4-Dichlorobenzene	11.32	146	13608	2.620	ug/L	98
67) 1,2-Dichlorobenzene	11.68	146	12674	2.591	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.48	75	1913	2.439	ug/L	94
69) 1,3,5-Trichlorobenzene	12.69	180	8201	2.307	ug/L	92
70) 1,2,4-trichlorobenzene	13.31	180	7478	2.291	ug/L	98
71) Naphthalene	13.55	128	22236	2.074	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	7246	2.285	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.541 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 85 Resp: 6888

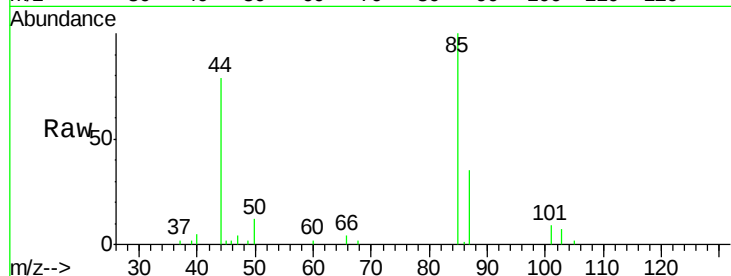
Ion Ratio Lower Upper

85 100

87 34.5 25.7 38.5

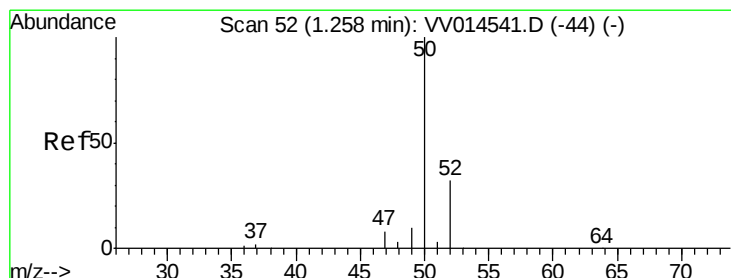
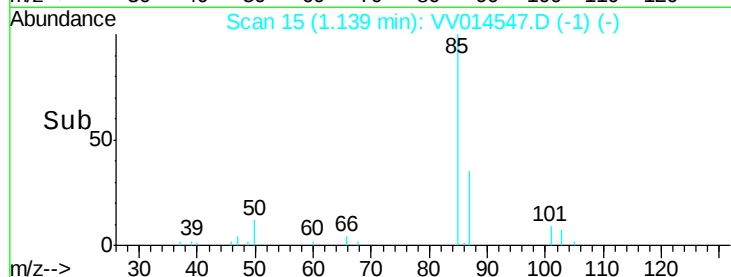
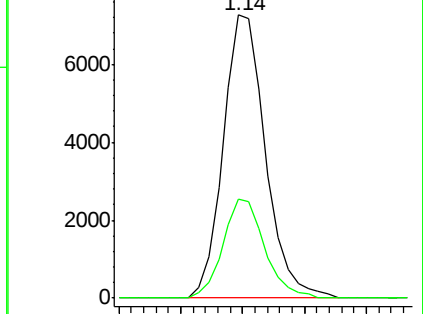
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Abundance Ion 85.00 (84.70 to 85.70): VV014547.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014547.D (-8) (-)



#3

Chloromethane

Concen: 2.251 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014547.D

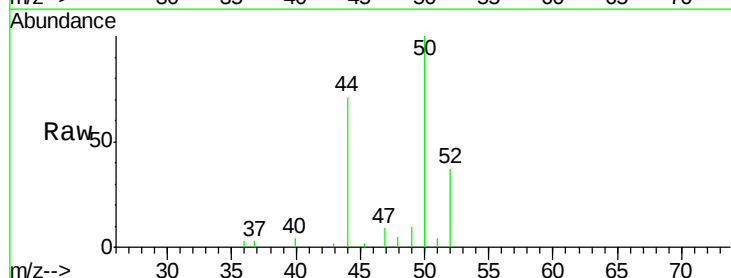
Acq: 10 Feb 2020 13:22

Tgt Ion: 50 Resp: 6177

Ion Ratio Lower Upper

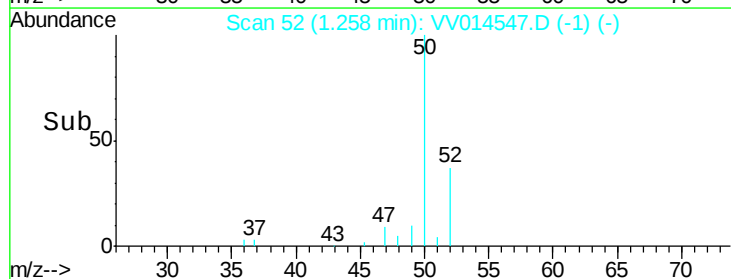
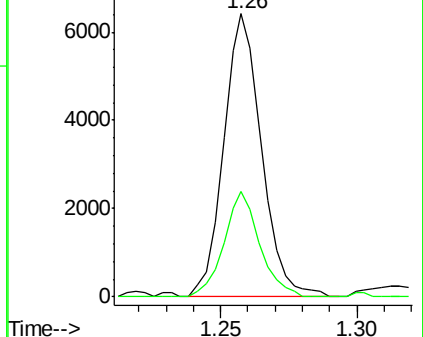
50 100

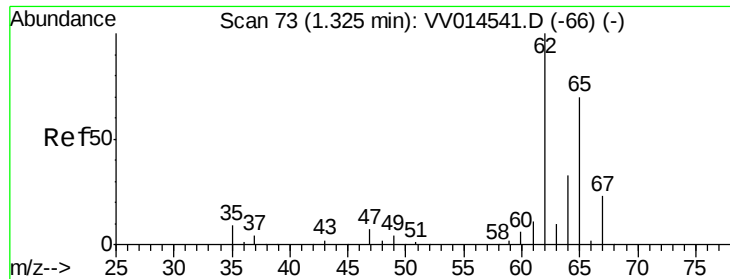
52 37.3 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV014547.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV014547.D (-44) (-)





#5

Vinyl chloride

Concen: 2.105 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 62 Resp: 4424

Ion Ratio Lower Upper

62 100

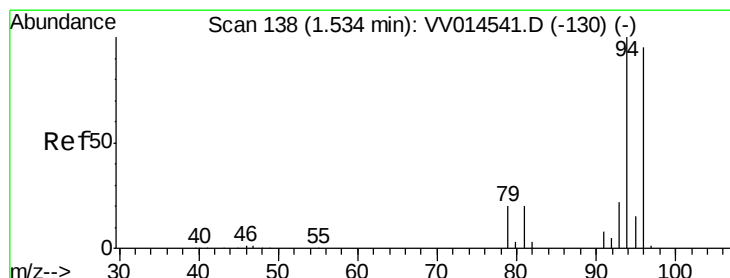
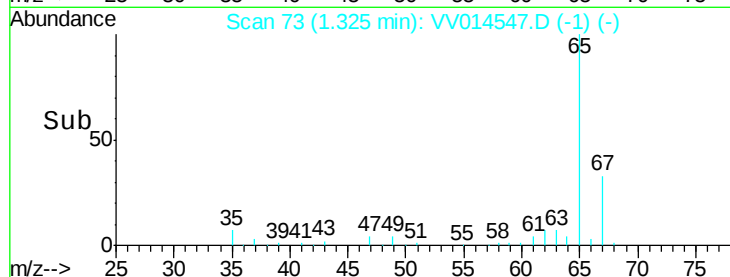
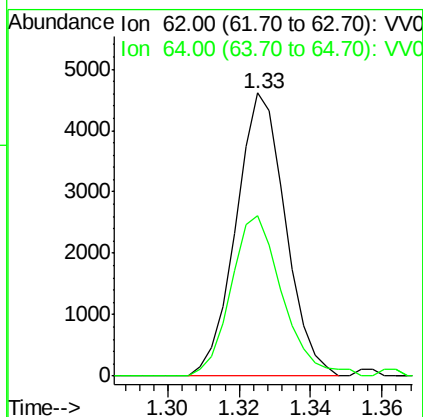
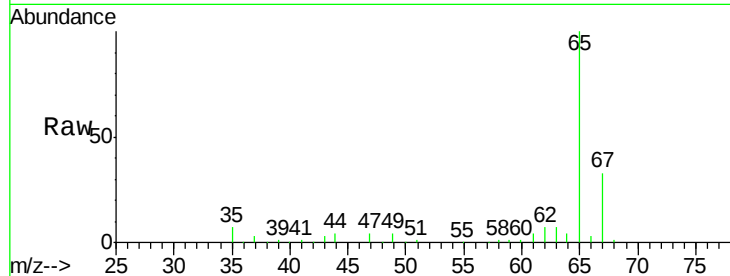
64 56.5 23.1 42.9#

Manual Integrations

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#6

Bromomethane

Concen: 2.098 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014547.D

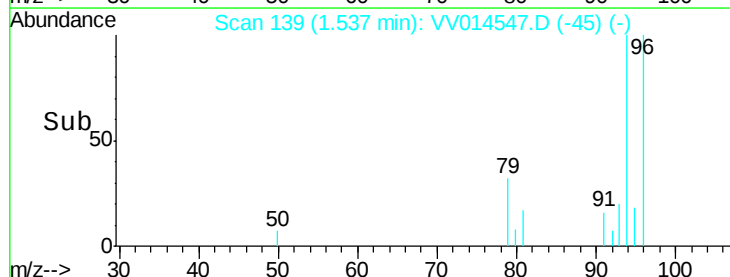
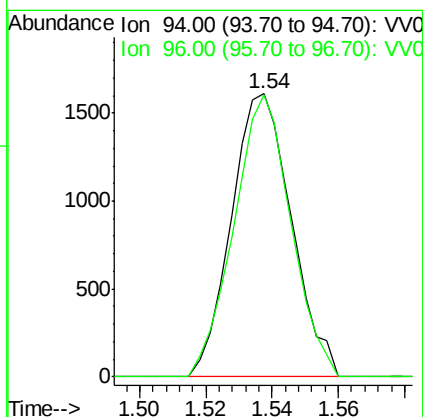
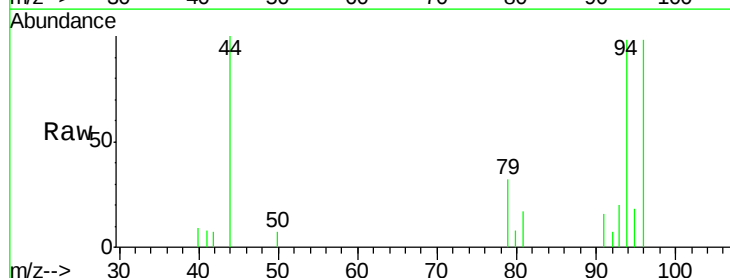
Acq: 10 Feb 2020 13:22

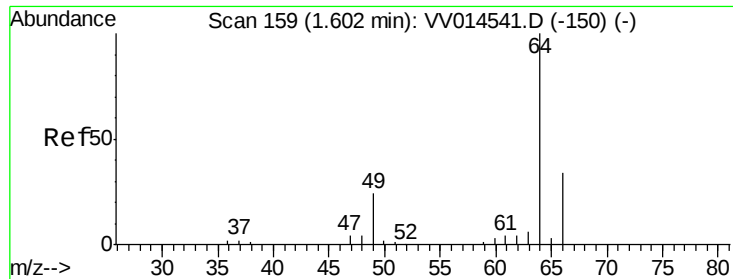
Tgt Ion: 94 Resp: 2028

Ion Ratio Lower Upper

94 100

96 99.8 67.3 124.9





#8

Chloroethane

Concen: 2.230 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 64 Resp: 2329

Ion Ratio Lower Upper

64 100

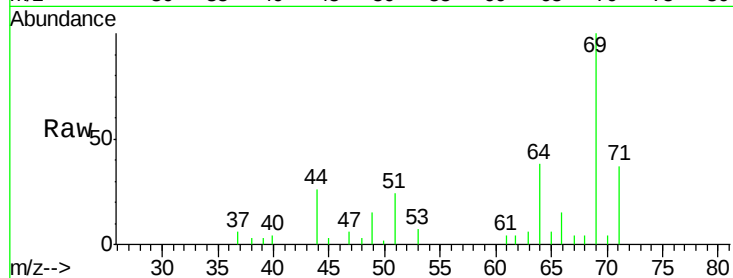
66 40.0 22.4 41.6

Manual Integrations

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Abundance Ion 64.00 (63.70 to 64.70): VV014547.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014547.D (-150) (-)

1.60

1500

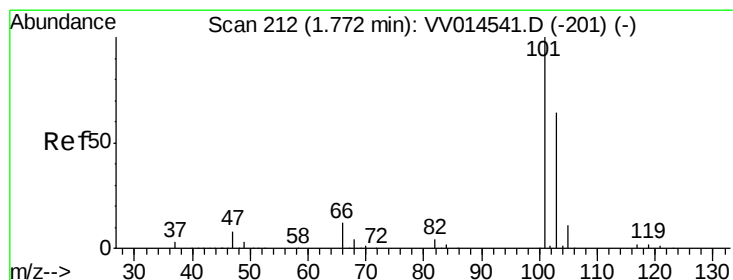
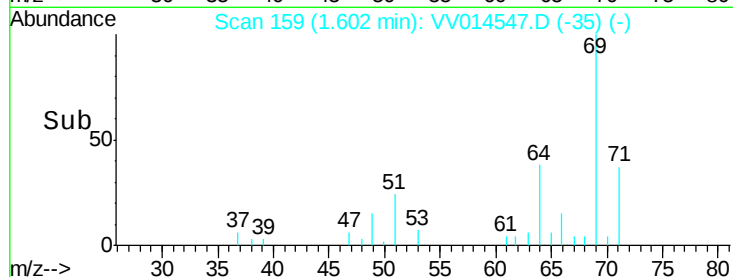
1000

500

0

1.56 1.58 1.60 1.62 1.64

Time-->



#9

Trichlorofluoromethane

Concen: 2.496 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014547.D

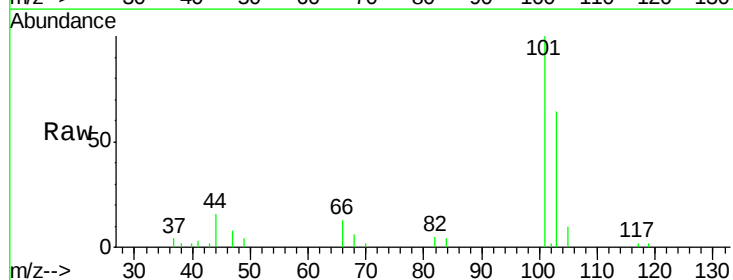
Acq: 10 Feb 2020 13:22

Tgt Ion: 101 Resp: 7067

Ion Ratio Lower Upper

101 100

103 65.0 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV014547.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014547.D (-201) (-)

1.77

6000

5000

4000

3000

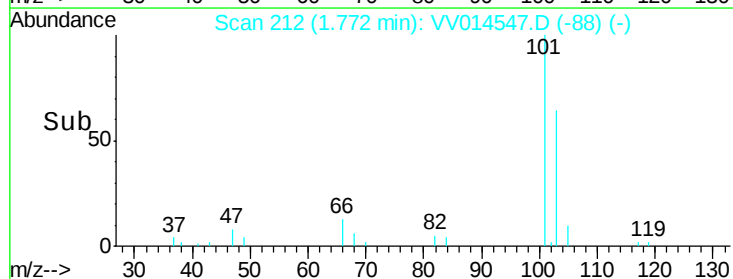
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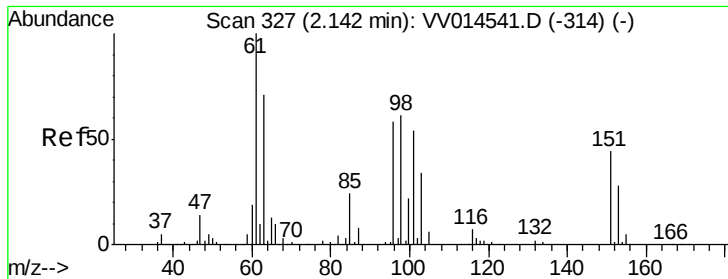
1000

0

1.75 1.80

Time-->





#10

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

Concen: 2.999 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

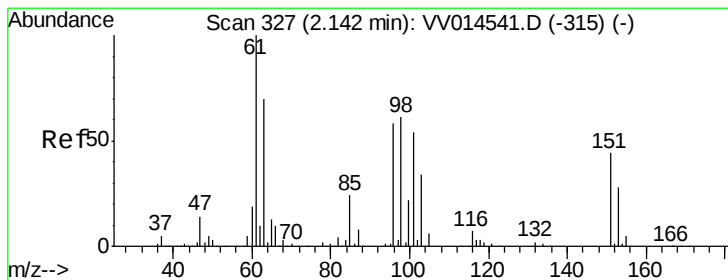
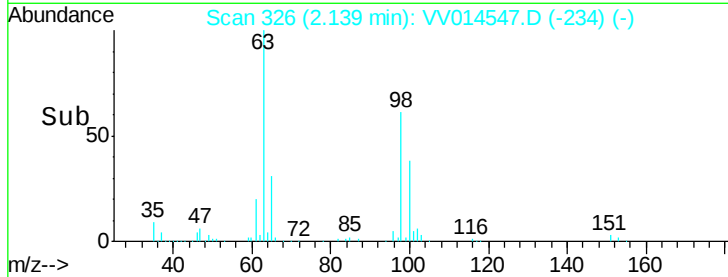
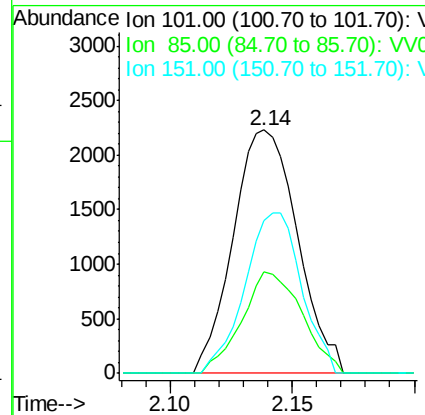
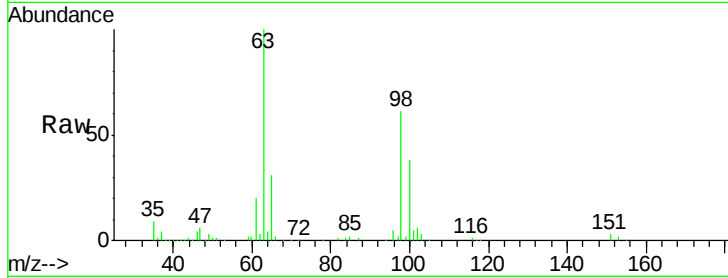
ClientSampleId :

MDL03

Tot Ion:	101	Resp:	4078
Ion Ratio	Lower	Upper	
101	100		
85	38.9	35.0	52.6
151	58.1	64.4	96.6#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.885 ug/L

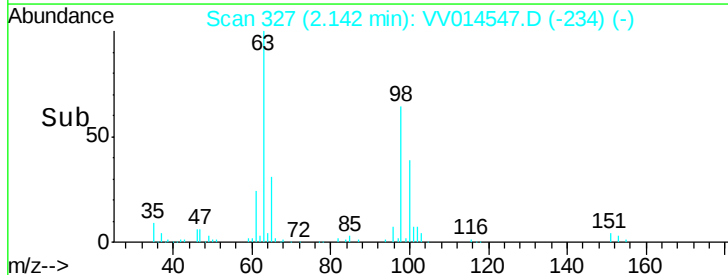
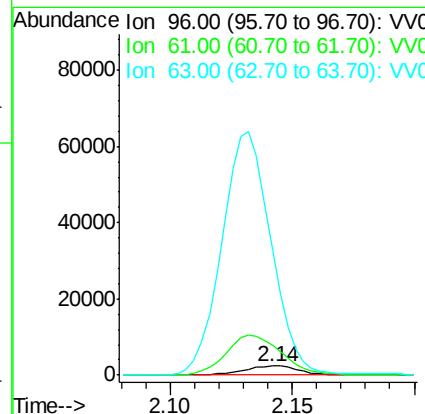
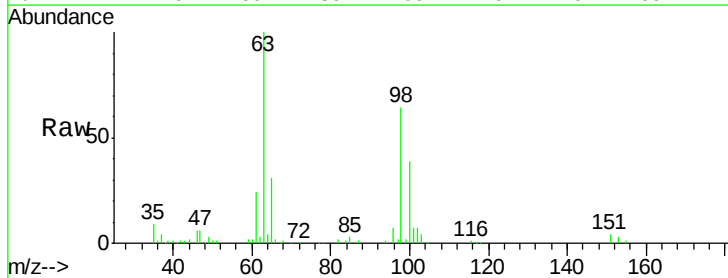
RT: 2.14 min Scan# 327

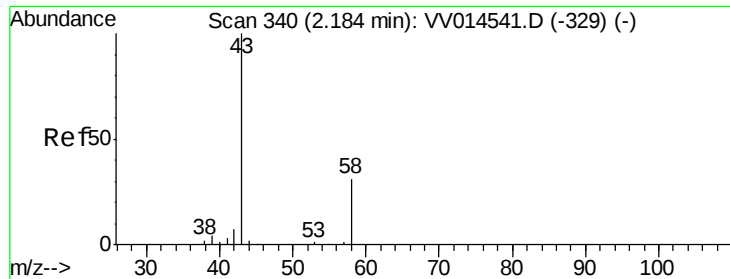
Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion:	96	Resp:	3752
Ion Ratio	Lower	Upper	
96	100		
61	336.6	125.0	232.2#
63	1388.4	101.6	188.6#





#13

Acetone

Concen: 6.375 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 7560

Ion Ratio Lower Upper

43 100

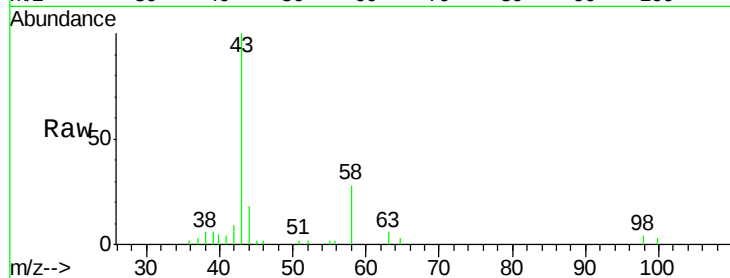
58 31.7 0.0 61.8

Manual Integrations

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2/12/2020 3:06:17 PM



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

6000

5000

4000

3000

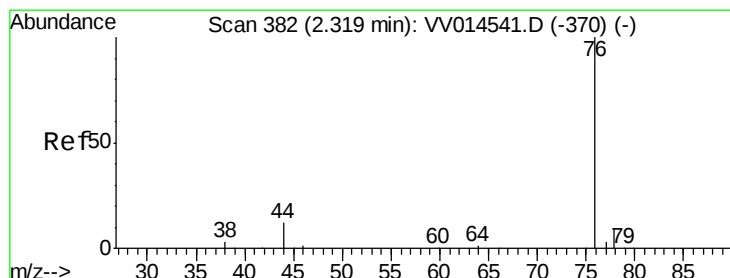
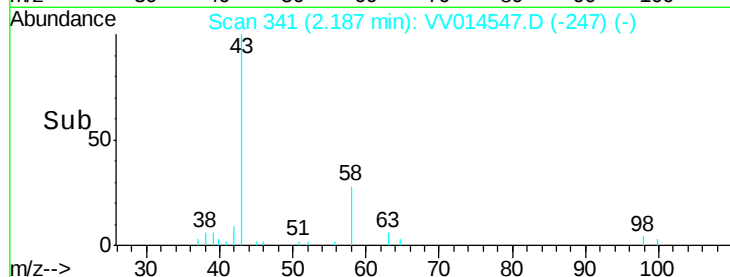
2000

1000

0

Time-->

2.15 2.20



#14

Carbon disulfide

Concen: 2.227 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014547.D

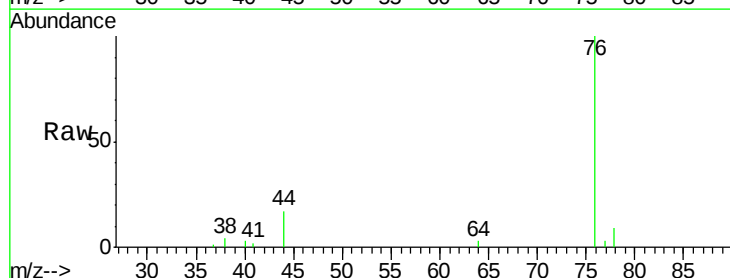
Acq: 10 Feb 2020 13:22

Tgt Ion: 76 Resp: 14059

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

10000

8000

6000

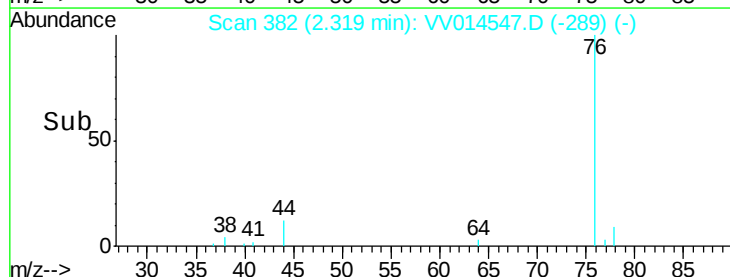
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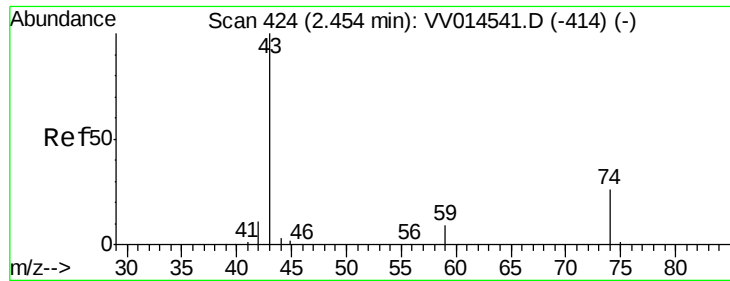
2000

0

Time-->

2.30 2.35





#15

Methvl Acetate

Concen: 2.281 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 5202

Ion Ratio Lower Upper

43 100

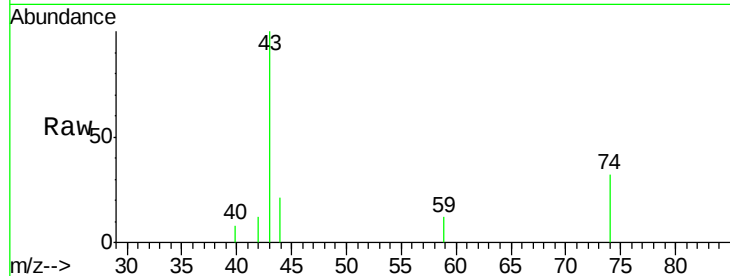
74 27.9 19.4 29.0

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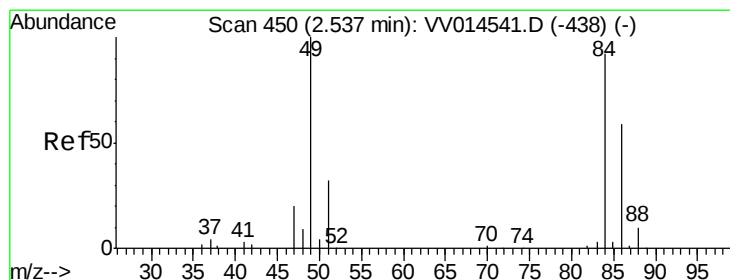
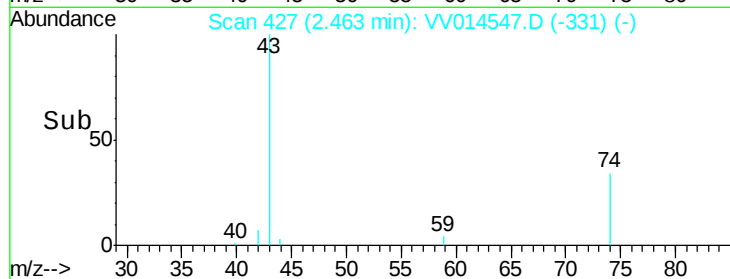
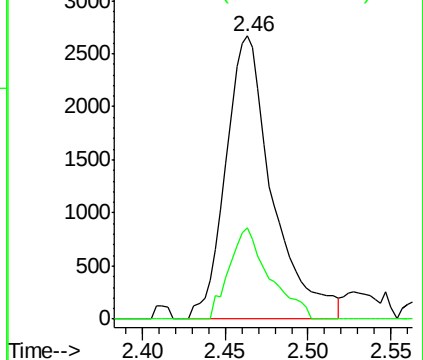
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 2.869 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

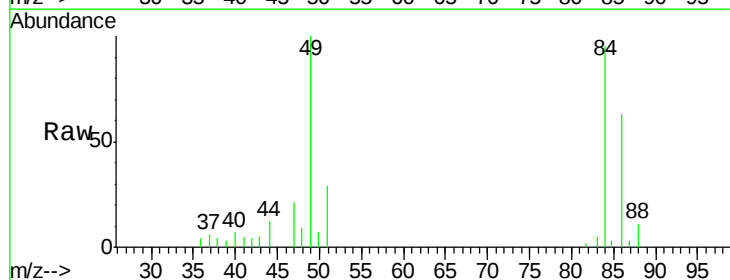
Tgt Ion: 84 Resp: 7085

Ion Ratio Lower Upper

84 100

86 66.1 44.6 82.8

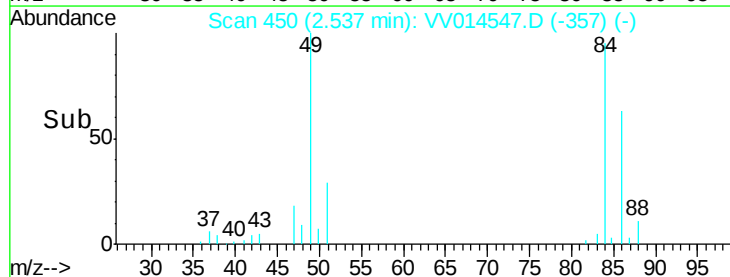
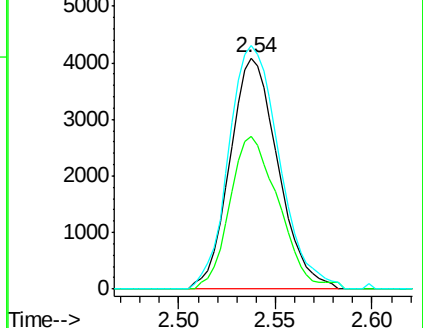
49 105.4 83.2 154.4

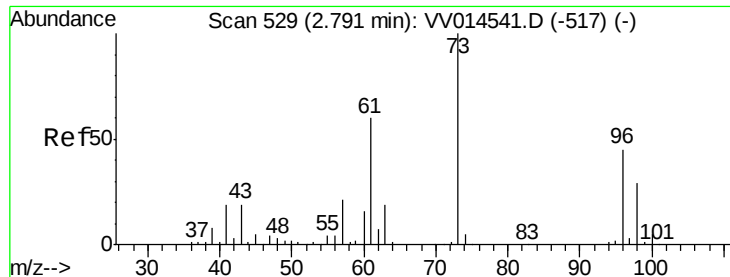


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





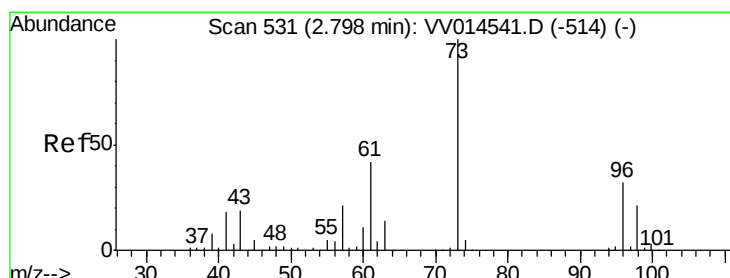
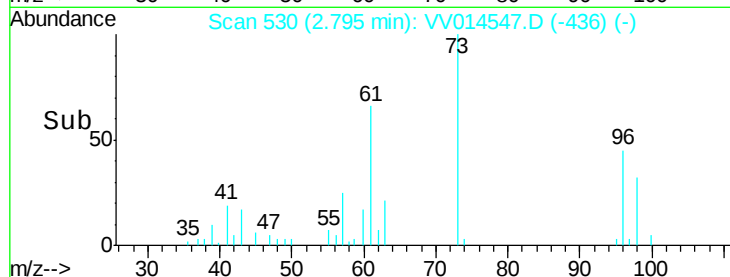
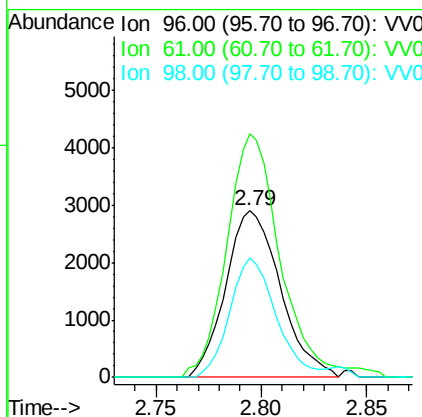
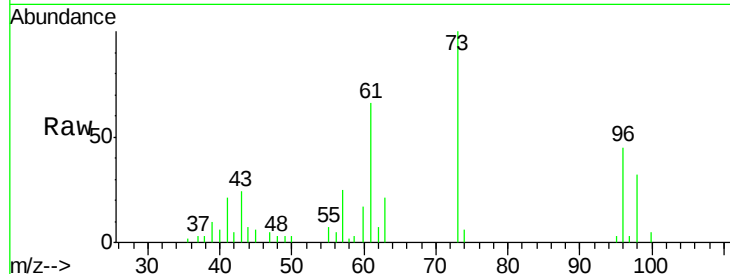
#17
trans-1,2-Dichloroethene
Concen: 2.289 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.0	95.8	178.0
98	71.9	45.1	83.7

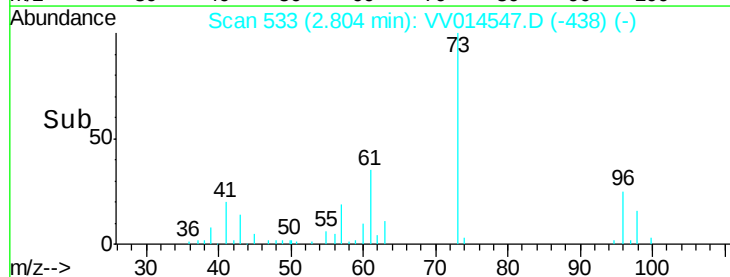
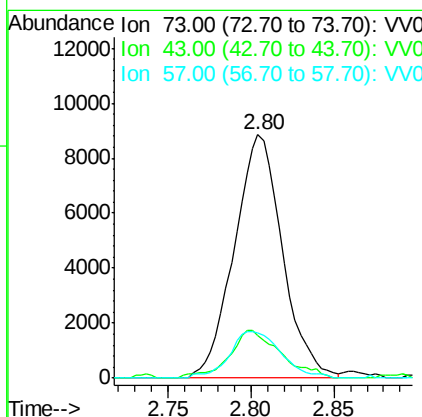
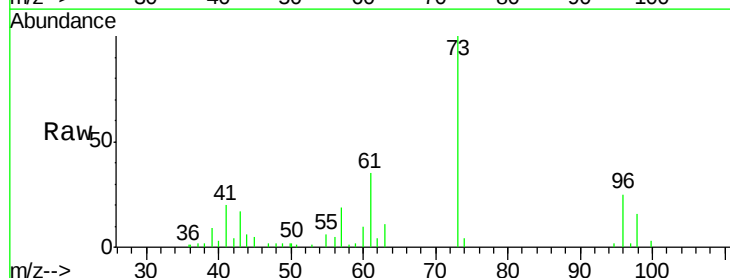
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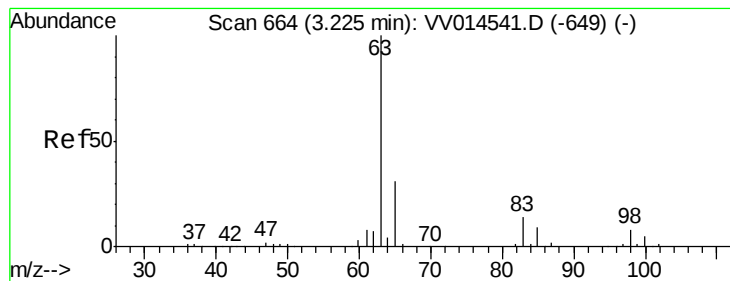
MMDadoda
2/12/2020 3:06:17 PM



#18
Methyl tert-butyl Ether
Concen: 2.468 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion	Ratio	Lower	Upper
73	100		
43	20.8	14.9	22.3
57	16.8	17.5	26.3#





#19

1,1-Dichloroethane

Concen: 2.523 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

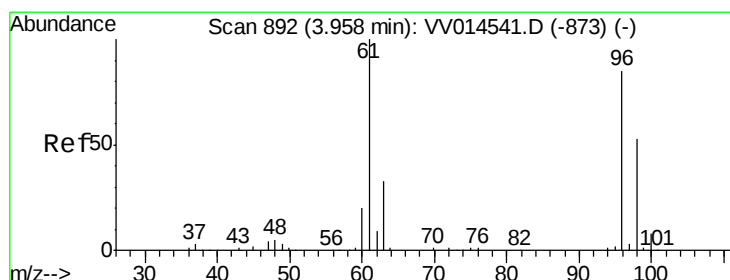
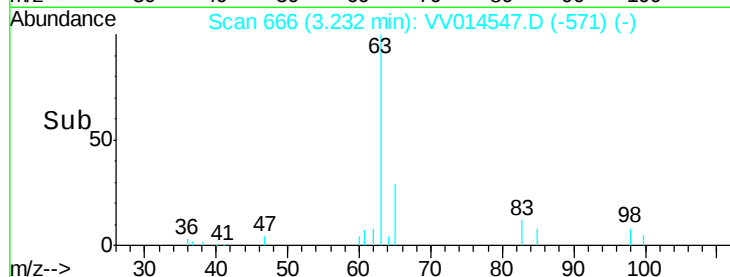
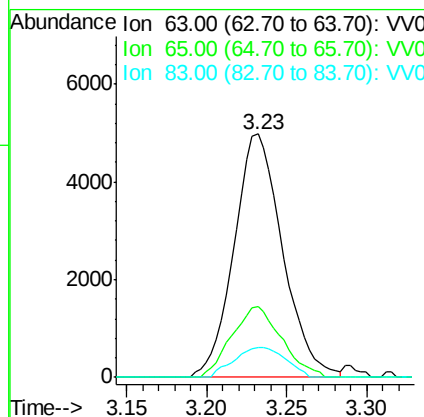
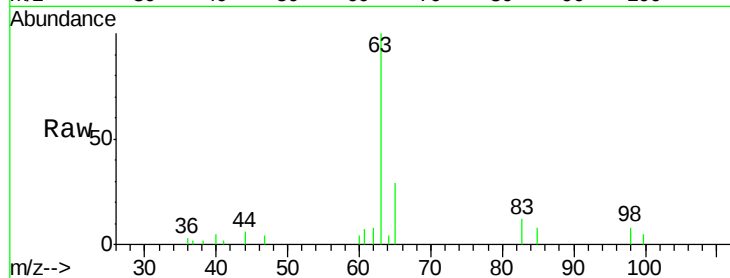
ClientSampleId :

MDL03

Tot Ion:	63	Resp:	10337
Ion	Ratio	Lower	Upper
63	100		
65	29.3	22.5	41.7
83	12.2	9.7	18.1

Manual Integrations
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2/12/2020 3:06:17 PM



#20

cis-1,2-Dichloroethene

Concen: 2.461 ug/L

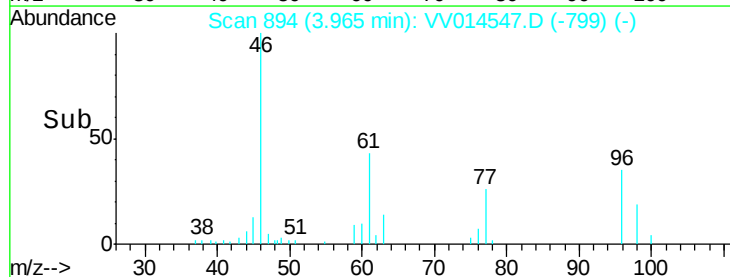
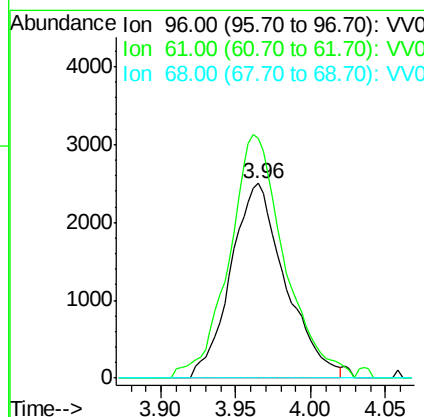
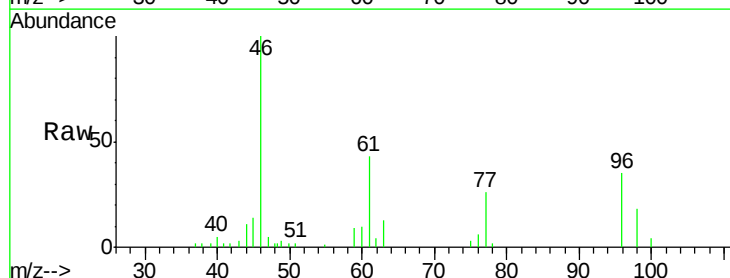
RT: 3.96 min Scan# 894

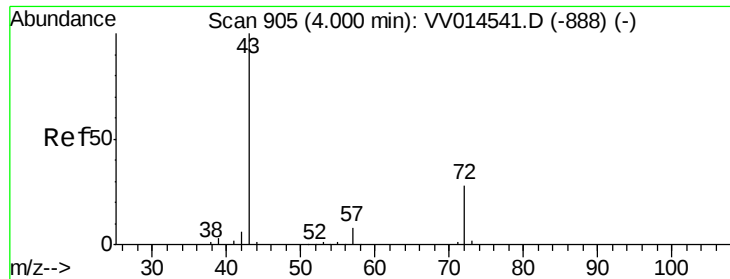
Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion:	96	Resp:	6344
Ion	Ratio	Lower	Upper
96	100		
61	123.3	85.2	158.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.807 ug/L m

RT: 4.02 min Scan# 912

Delta R.T. 0.02 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 43 Resp: 6676

Ion Ratio Lower Upper

43 100

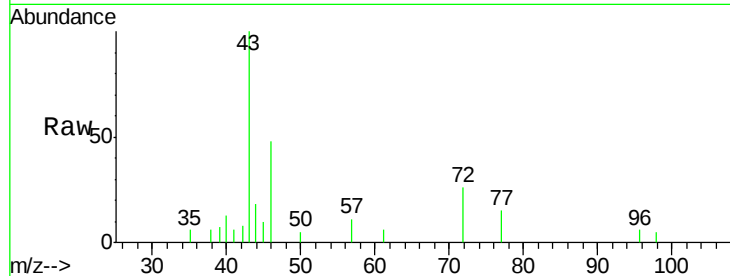
72 0.6 12.7 38.1#

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VV014541.D (-888) (-)

Ion 72.00 (71.70 to 72.70): VV014541.D (-888) (-)

4.02

2500

2000

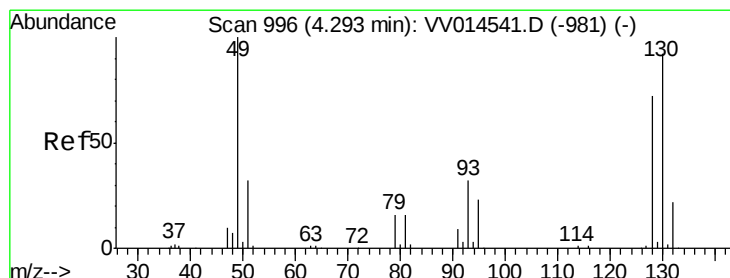
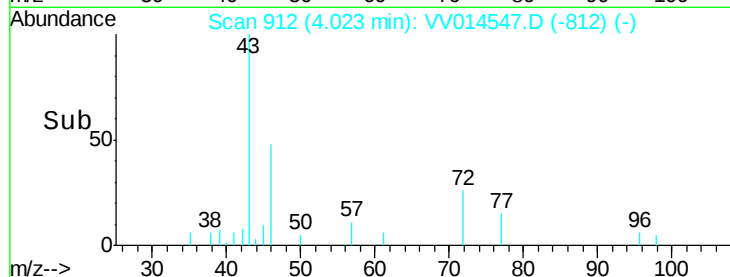
1500

1000

500

0

Time-->



#23

Bromochloromethane

Concen: 2.329 ug/L

RT: 4.30 min Scan# 999

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion: 128 Resp: 2843

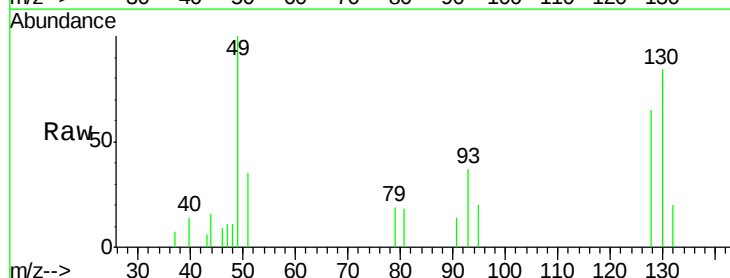
Ion Ratio Lower Upper

128 100

49 152.9 110.1 204.5

130 127.9 88.5 164.4

51 54.2 39.4 59.0



Abundance Ion 128.00 (127.70 to 128.70): VV014541.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VV014541.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VV014541.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VV014541.D (-981) (-)

20000

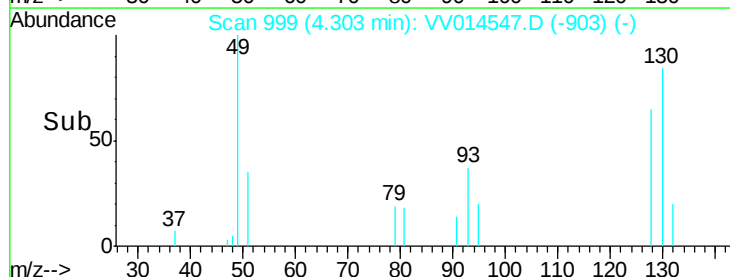
15000

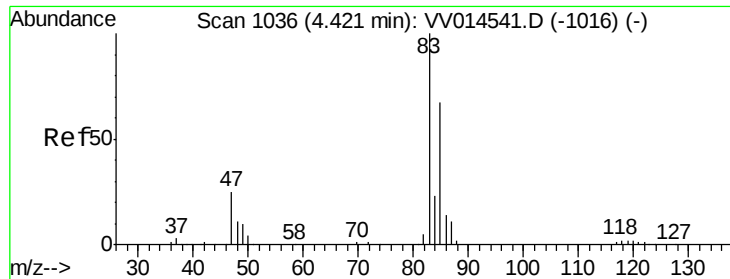
10000

5000

0

Time-->





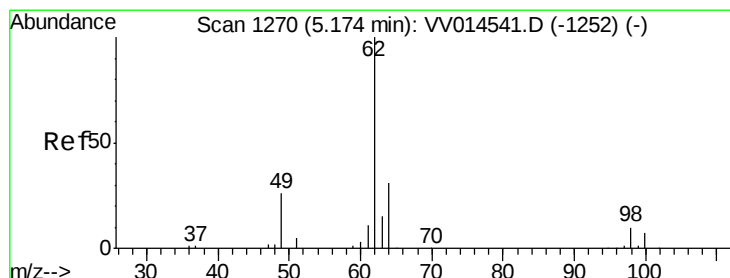
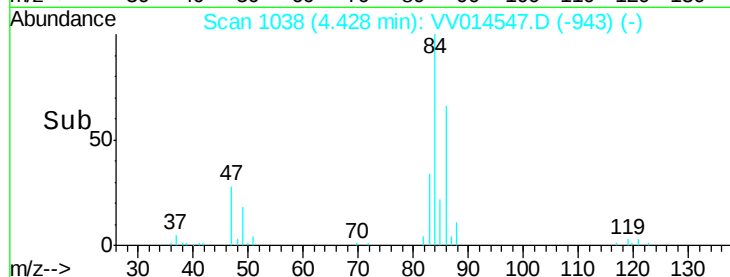
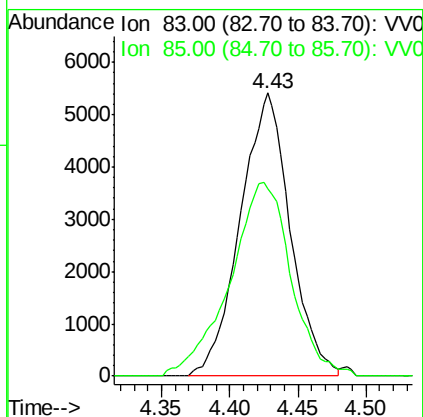
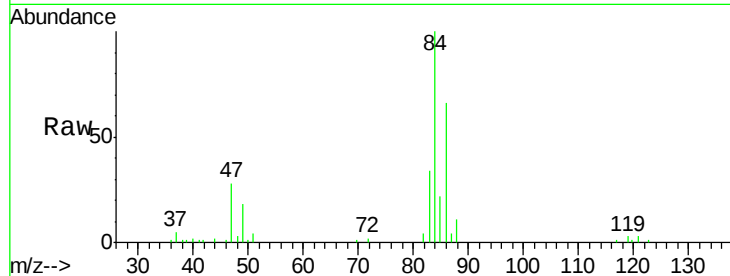
#25
Chloroform
Concen: 3.308 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion: 83 Resp: 13781
Ion Ratio Lower Upper
83 100
85 66.3 45.8 85.0

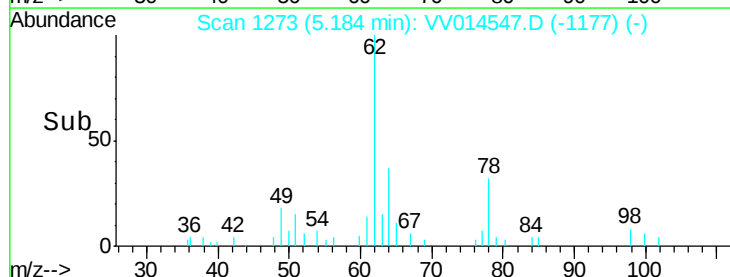
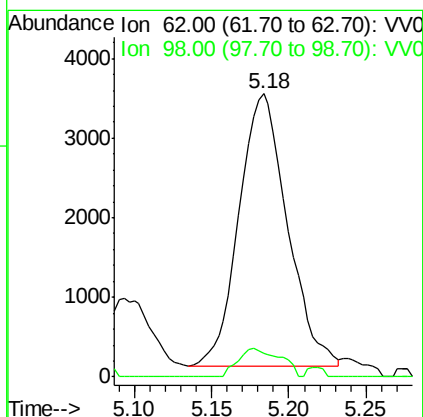
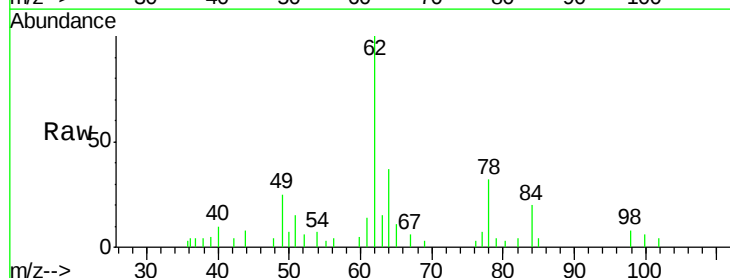
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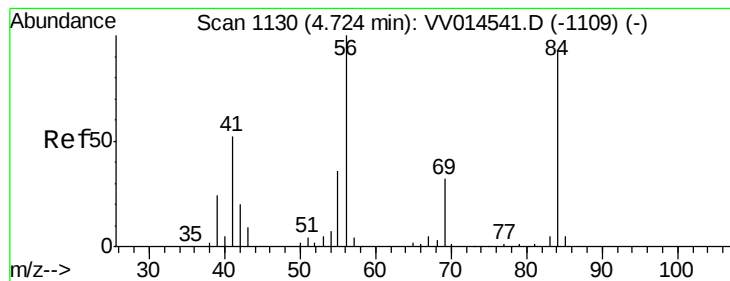
MMDadoda
2/12/2020 3:06:17 PM



#27
1,2-Dichloroethane
Concen: 2.397 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion: 62 Resp: 7441
Ion Ratio Lower Upper
62 100
98 8.4 8.2 12.4





#29

Cyclohexane

Concen: 2.309 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

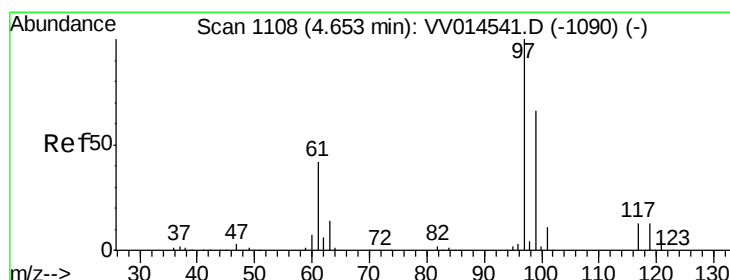
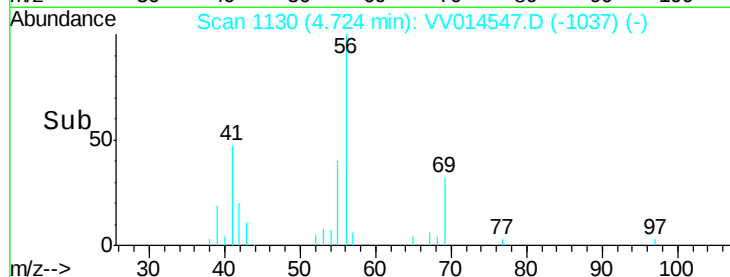
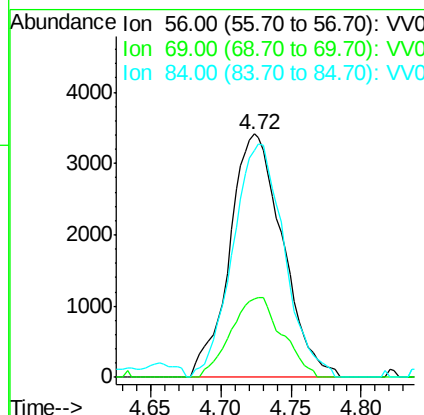
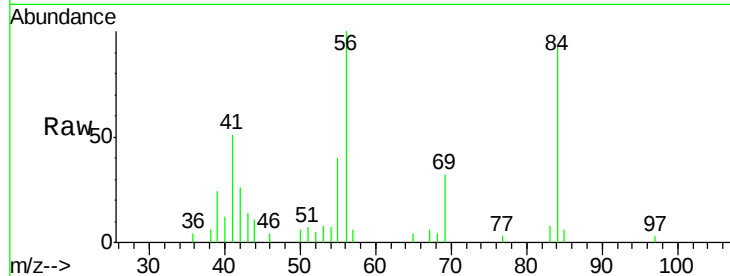
ClientSampleId :

MDL03

Tot Ion:	56	Resp:	8957
Ion	Ratio	Lower	Upper
56	100		
69	31.6	25.2	37.8
84	93.3	69.8	104.8

Manual Integrations
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#30

1,1,1-Trichloroethane

Concen: 2.407 ug/L

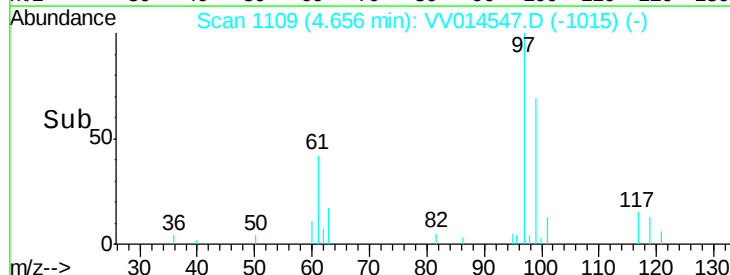
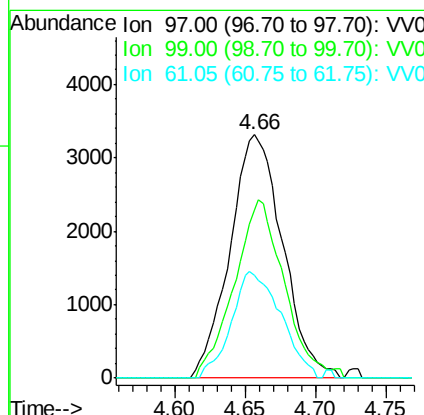
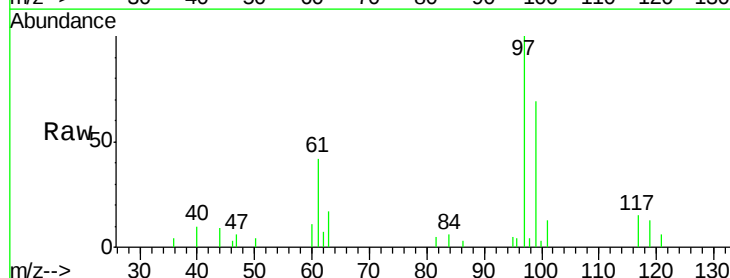
RT: 4.66 min Scan# 1109

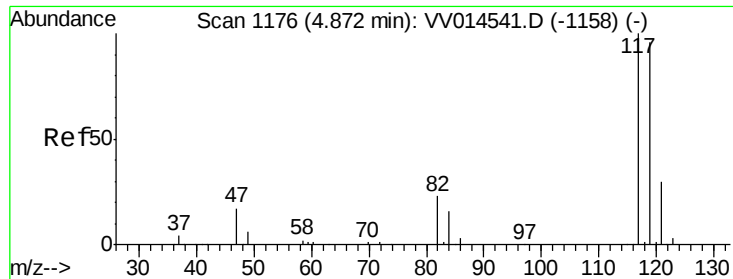
Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion:	97	Resp:	8665
Ion	Ratio	Lower	Upper
97	100		
99	68.9	50.6	76.0
61	41.0	33.0	49.4





#31

Carbon tetrachloride

Concen: 2.508 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion:117 Resp: 7965

Ion Ratio Lower Upper

117 100

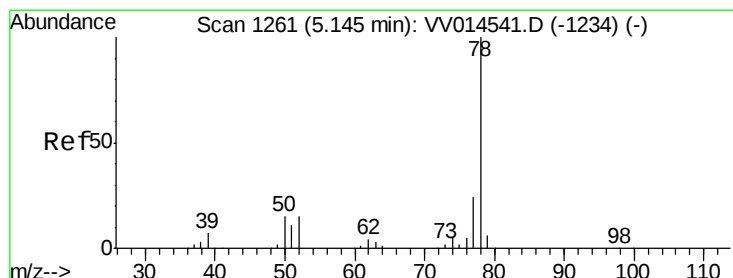
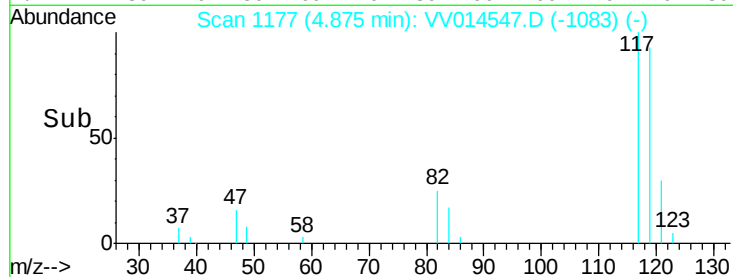
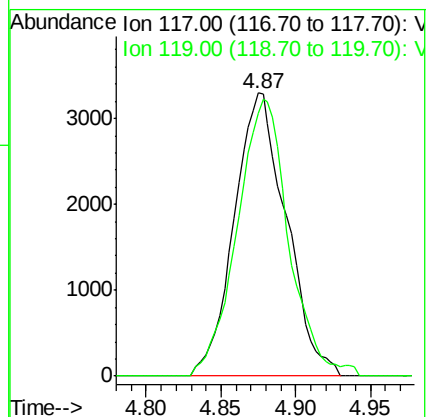
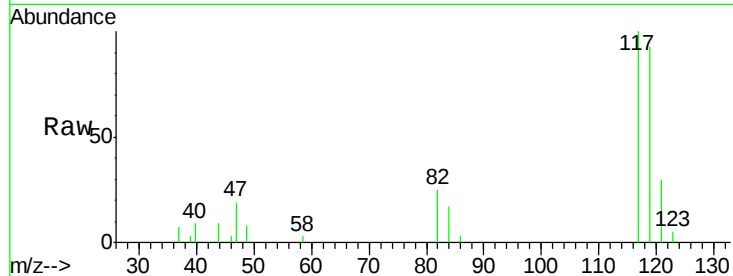
119 96.3 76.7 115.1

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#33

Benzene

Concen: 2.427 ug/L

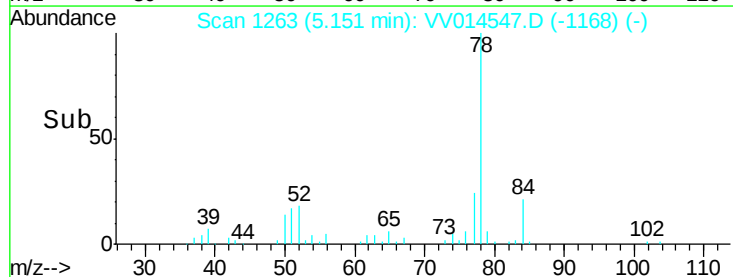
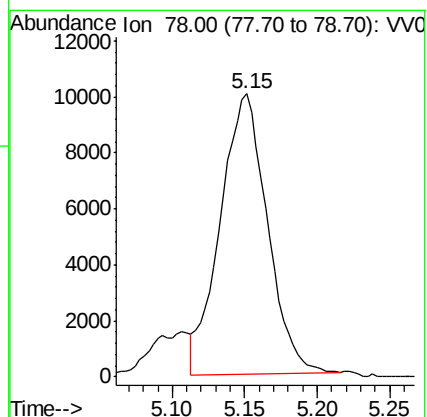
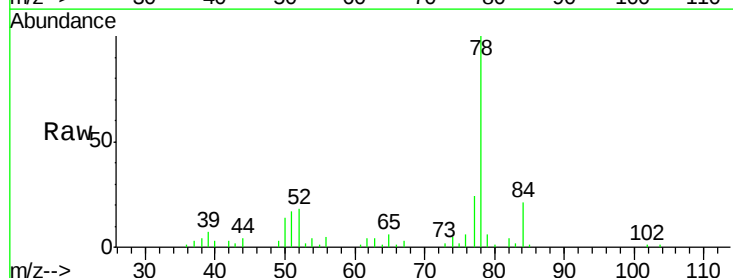
RT: 5.15 min Scan# 1263

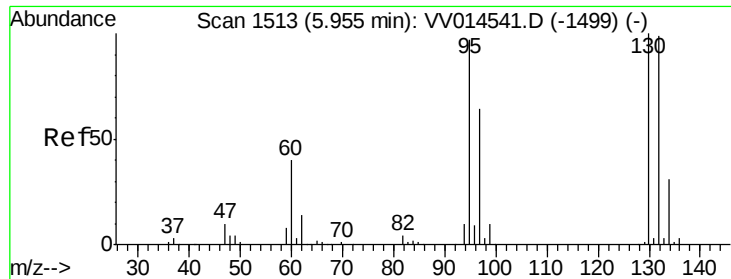
Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion: 78 Resp: 22511





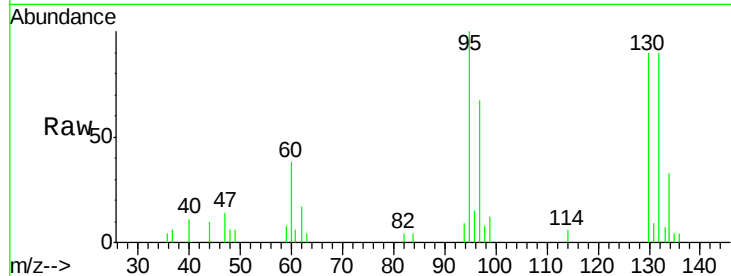
#34
 Trichloroethene
 Concen: 2.458 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.01 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

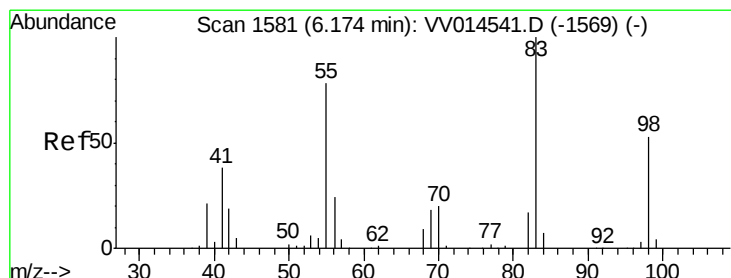
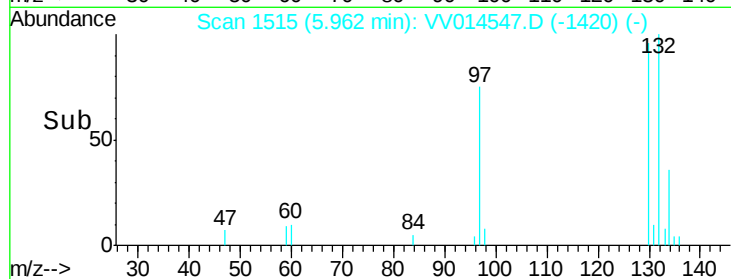
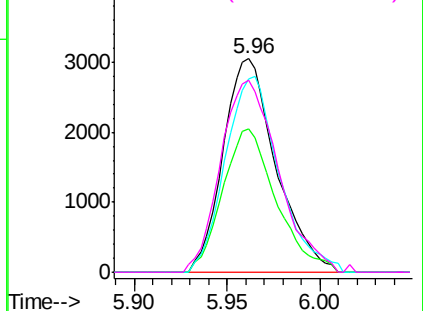
Tot Ion: 95 Resp: 6044
 Ion Ratio Lower Upper
 95 100
 97 67.4 45.1 83.7
 132 90.4 67.7 125.7
 130 89.7 70.5 130.9

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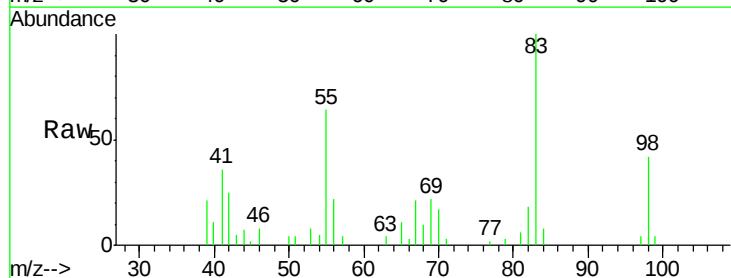


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

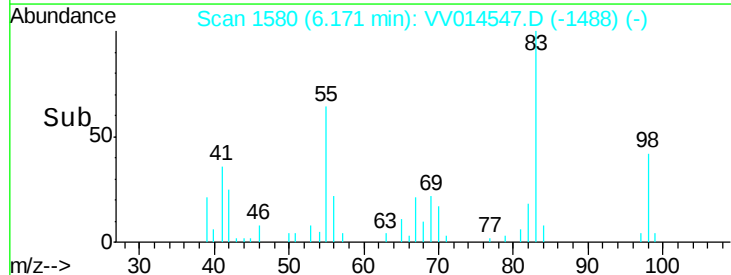
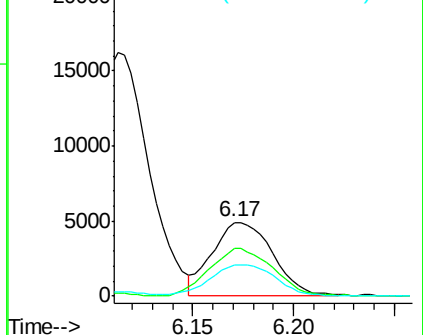


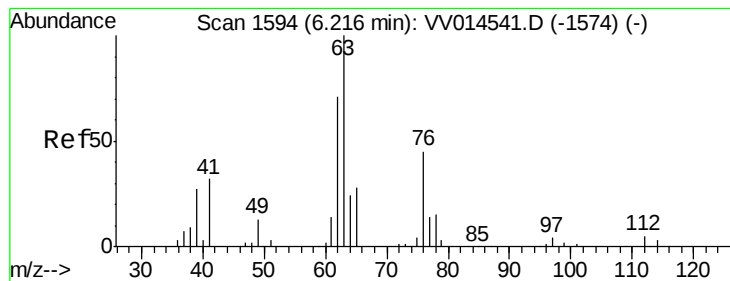
#35
 Methylcyclohexane
 Concen: 2.566 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Tgt Ion: 83 Resp: 10309
 Ion Ratio Lower Upper
 83 100
 55 67.2 60.7 91.1
 98 45.7 39.4 59.0



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 2.272 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 63 Resp: 5368

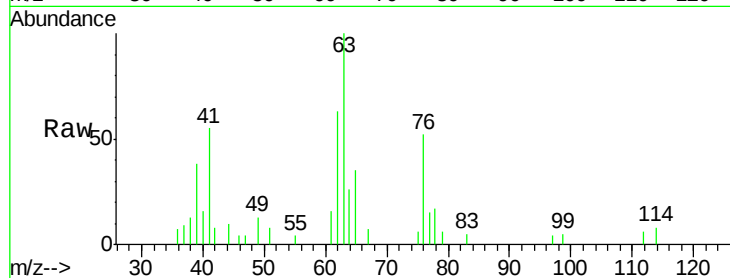
Ion Ratio Lower Upper

63 100

112 4.7 3.7 5.5

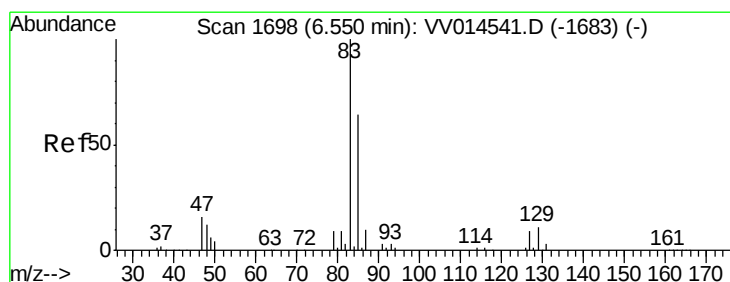
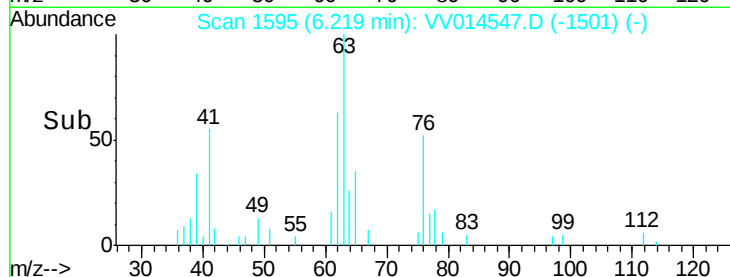
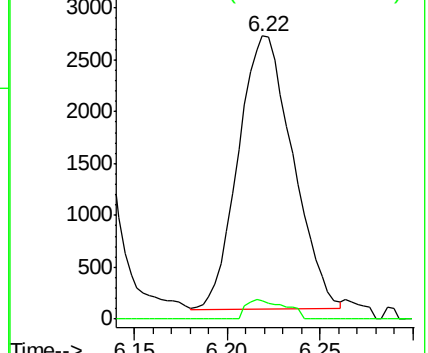
Manual Integrations
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MMDadoda
2/12/2020 3:06:17 PM



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 2.468 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

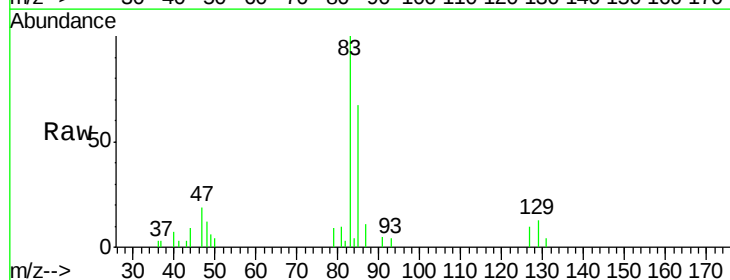
Tgt Ion: 83 Resp: 7826

Ion Ratio Lower Upper

83 100

85 67.4 44.4 82.4

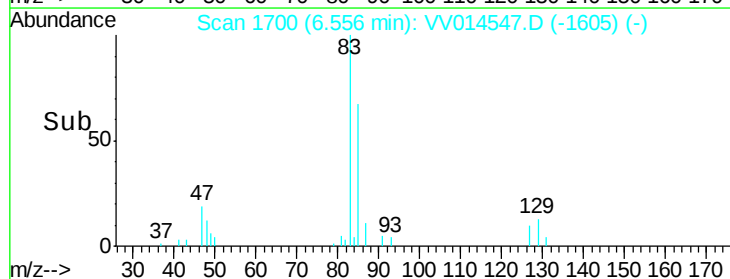
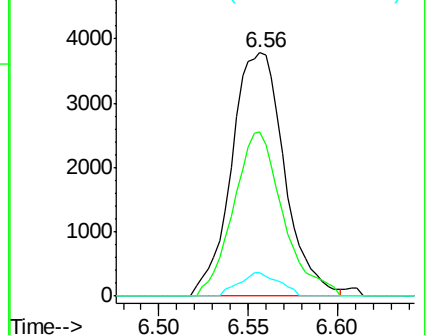
127 9.6 6.7 10.1

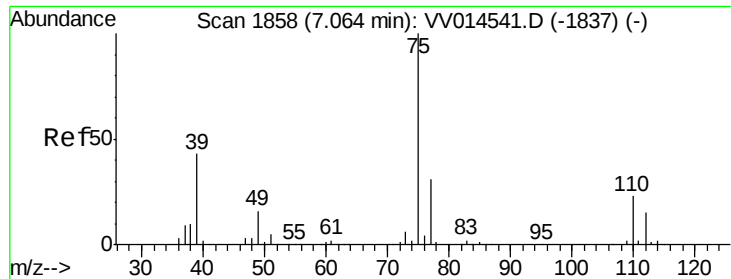


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 127.00 (126.70 to 127.70): V





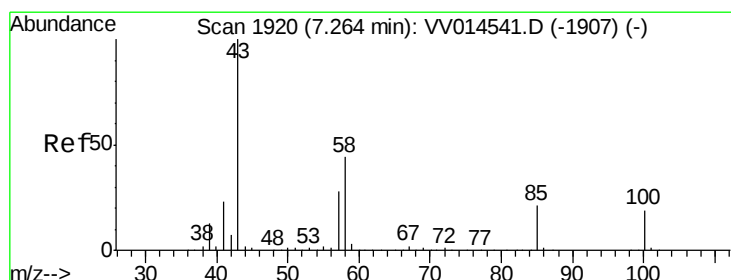
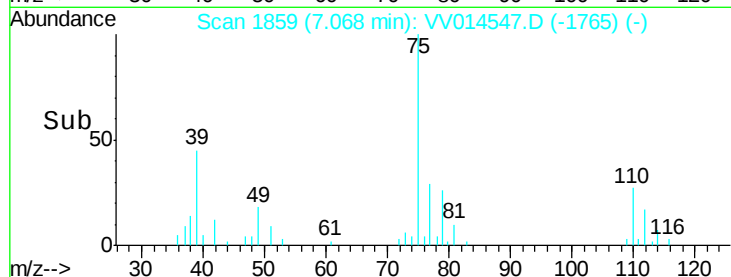
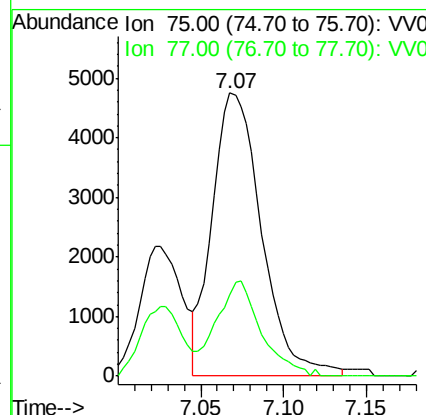
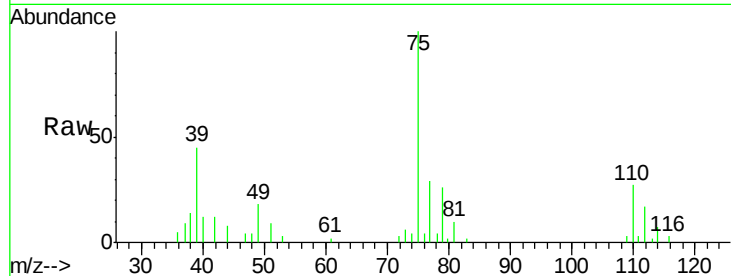
#39
 cis-1,3-Dichloropropene
 Concen: 2.507 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion: 75 Resp: 9878
 Ion Ratio Lower Upper
 75 100
 77 28.6 22.7 42.1

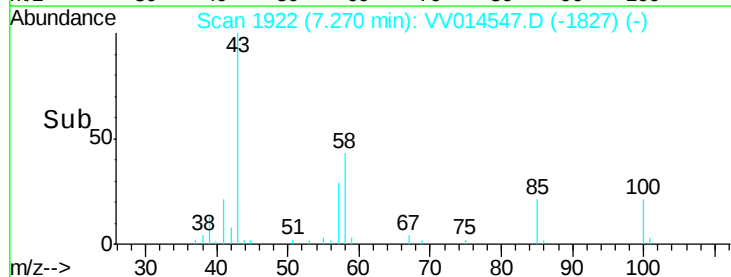
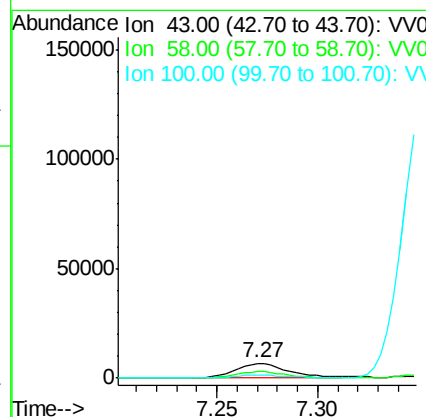
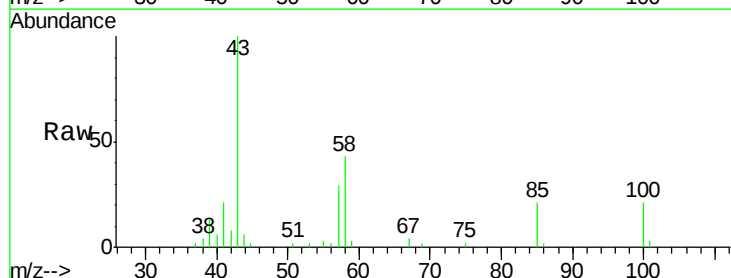
Manual Integrations
 APPROVED

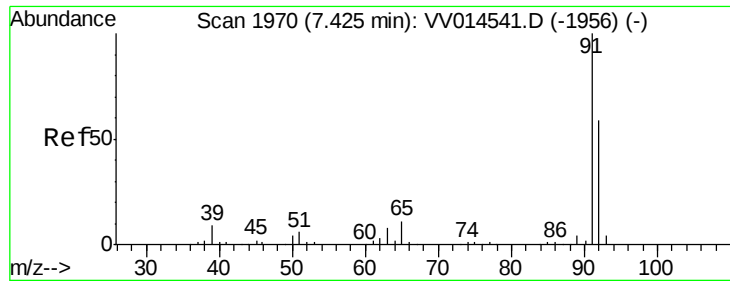
MMDadoda
 2/12/2020 3:06:17 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.079 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Tgt Ion: 43 Resp: 12453
 Ion Ratio Lower Upper
 43 100
 58 44.4 33.2 49.8
 100 20.5 13.9 20.9





#42

Toluene

Concen: 2.543 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 25291

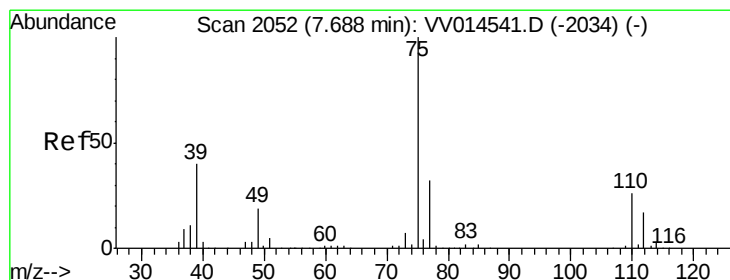
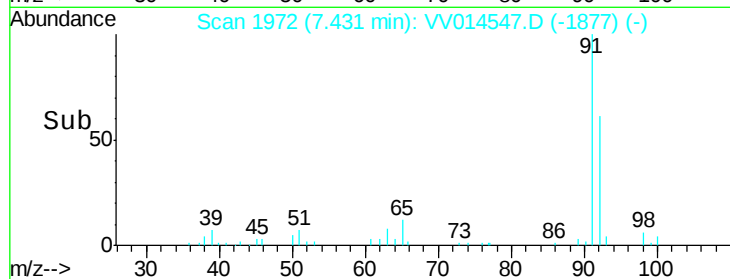
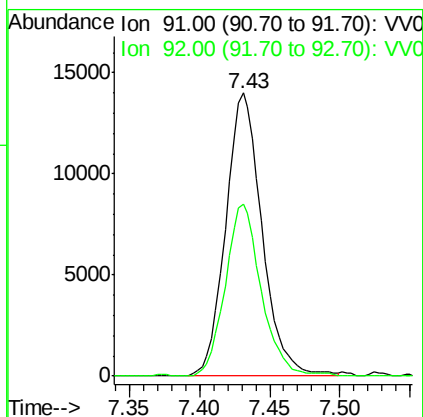
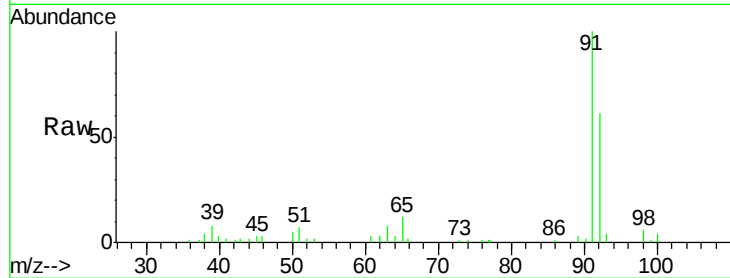
Ion Ratio Lower Upper

91 100

92 60.9 41.6 77.2

Manual Integrations
APPROVED

MMDadoda
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#44

trans-1,3-Dichloropropene

Concen: 2.385 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014547.D

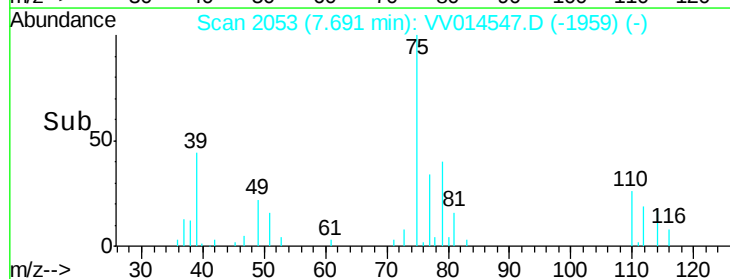
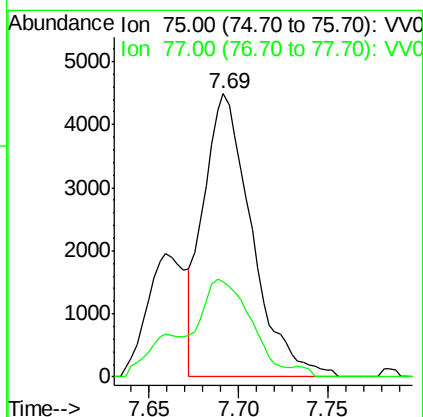
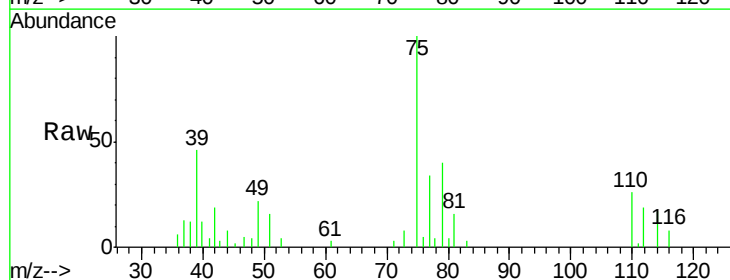
Acq: 10 Feb 2020 13:22

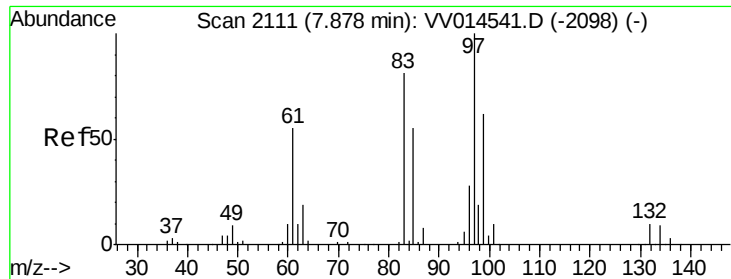
Tgt Ion: 75 Resp: 8429

Ion Ratio Lower Upper

75 100

77 33.7 22.2 41.2





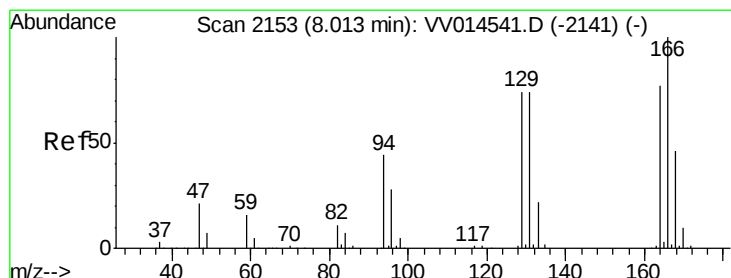
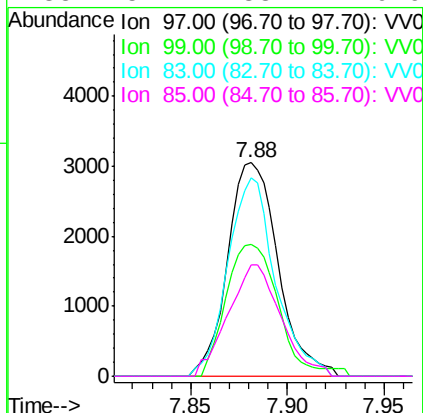
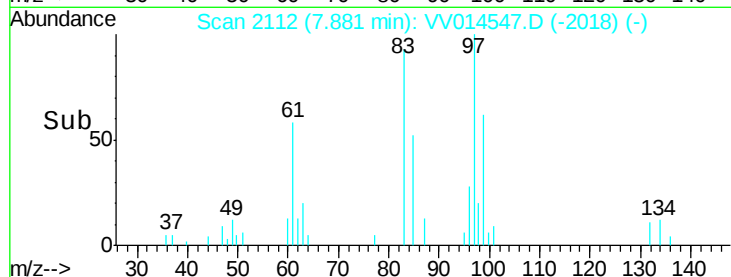
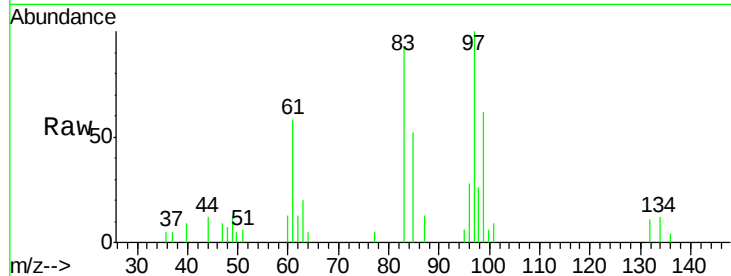
#45
1,1,2-Trichloroethane
Concen: 2.445 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion:	97	Resp:	5542
Ion	Ratio	Lower	Upper
97	100		
99	61.5	44.5	82.7
83	93.1	60.1	111.5
85	52.1	38.1	70.9

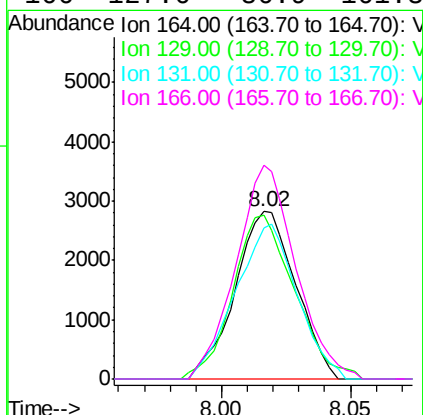
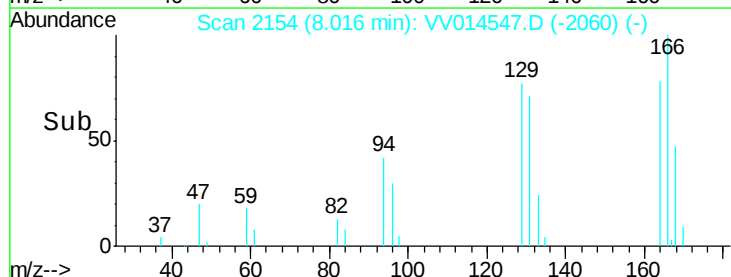
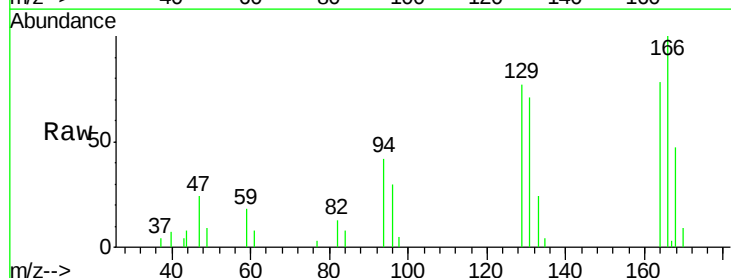
Manual Integrations
APPROVED

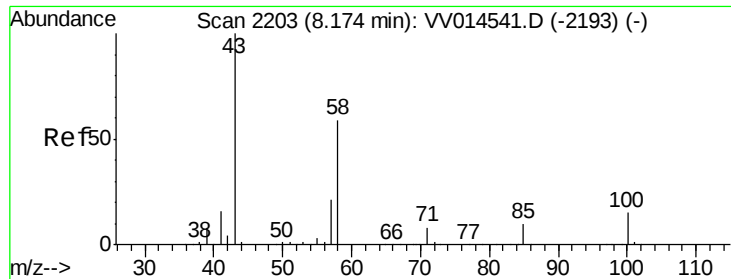
MMDadoda
2/12/2020 3:06:17 PM



#46
Tetrachloroethene
Concen: 2.479 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion:	164	Resp:	4650
Ion	Ratio	Lower	Upper
164	100		
129	97.9	68.0	126.4
131	90.3	63.4	117.8
166	127.6	86.9	161.3





#48

2-Hexanone

Concen: 4.470 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

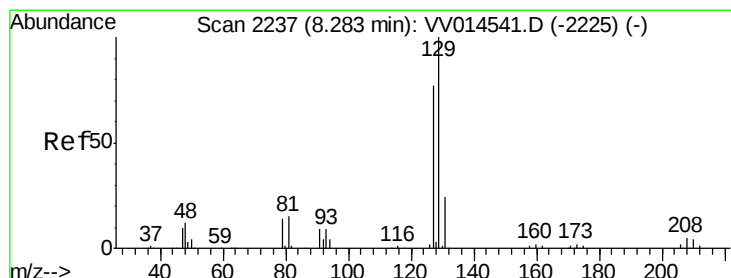
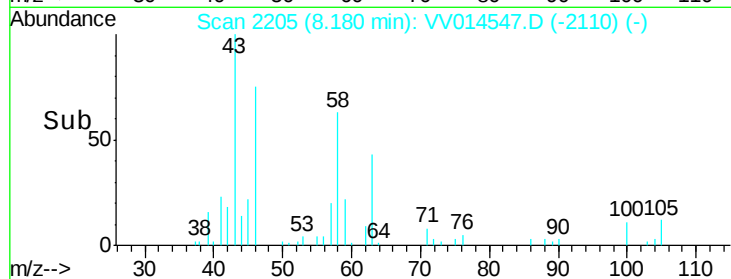
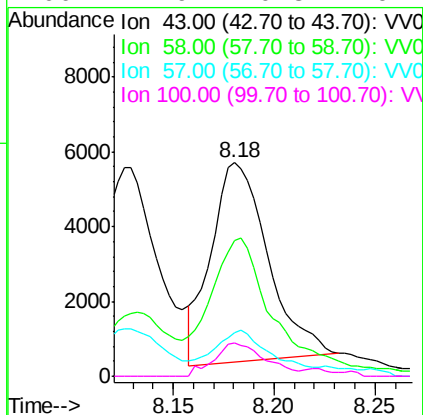
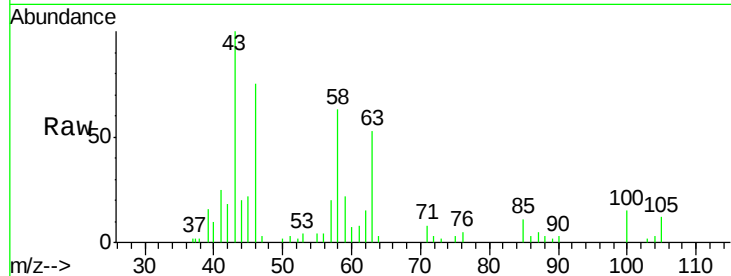
ClientSampleId :

MDL03

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	71.1	45.5	68.3#	
57	18.6	15.8	23.6	
100	14.9	10.8	16.2	

Manual Integrations
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#49

Dibromochloromethane

Concen: 2.483 ug/L

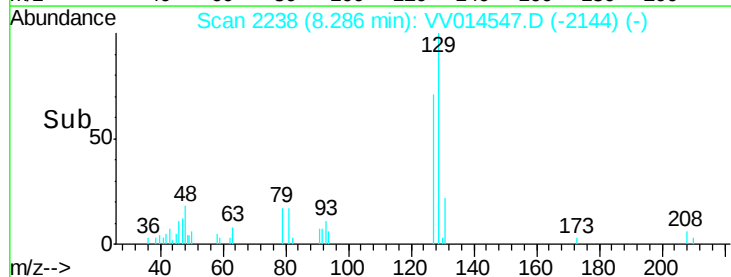
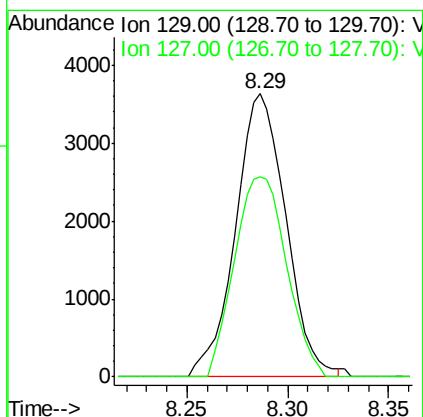
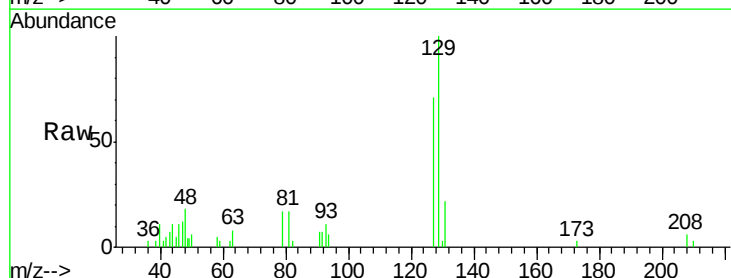
RT: 8.29 min Scan# 2238

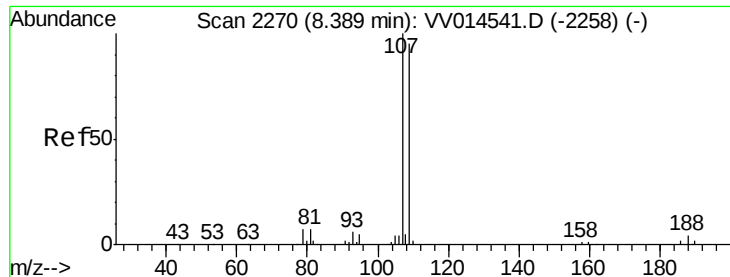
Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	70.8	54.1	100.5	





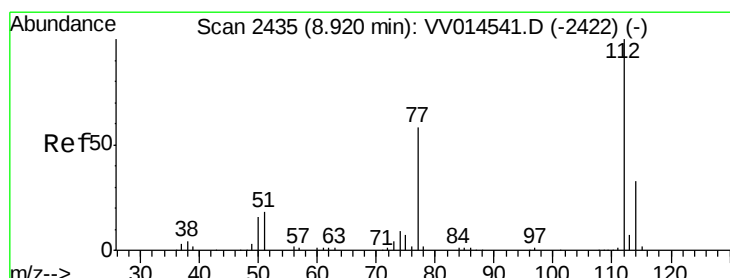
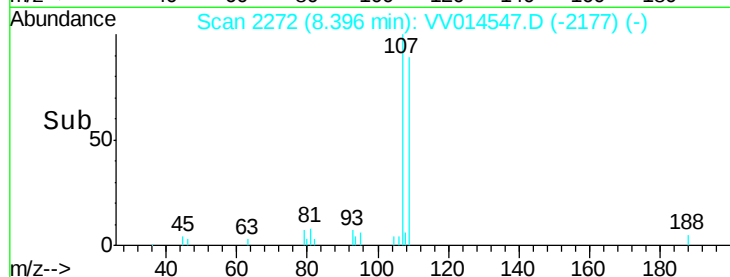
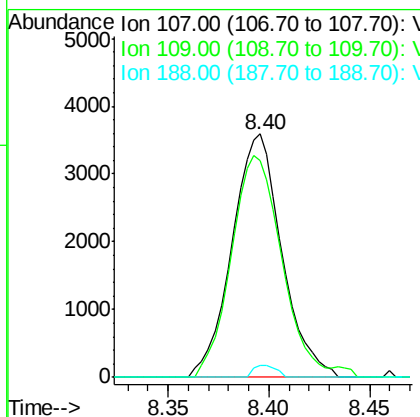
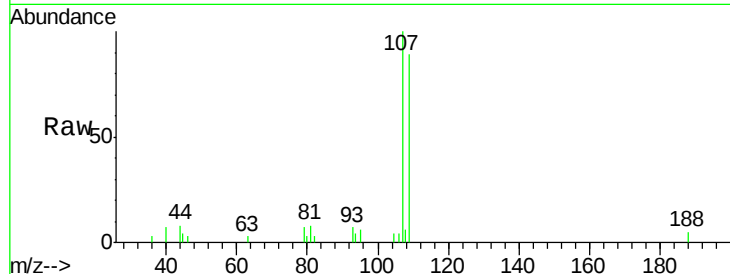
#50
1,2-Dibromoethane
Concen: 2.519 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	88.9	65.2	121.2
188	4.8	2.6	4.0#

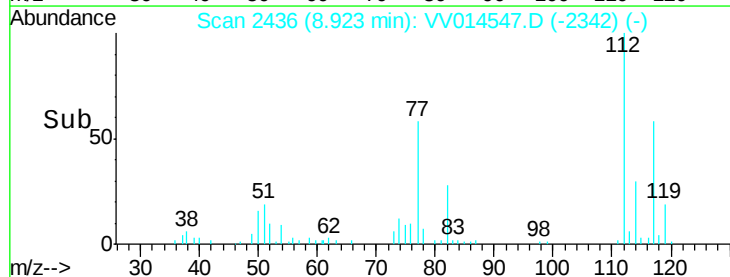
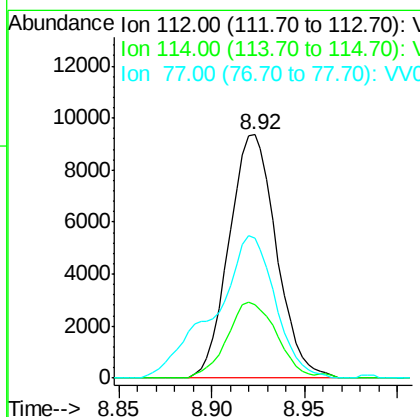
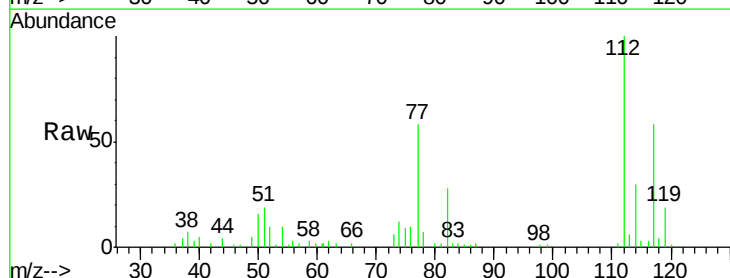
Manual Integrations
APPROVED

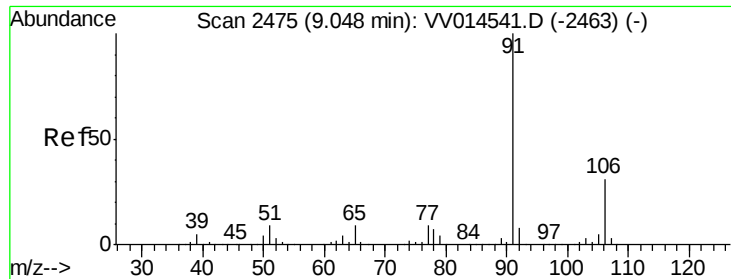
MMDadoda
2/12/2020 3:06:17 PM



#51
Chlorobenzene
Concen: 2.554 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.1	22.3	41.5
77	57.5	47.3	70.9





#52

Ethylbenzene

Concen: 2.398 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 26741

Ion Ratio Lower Upper

91 100

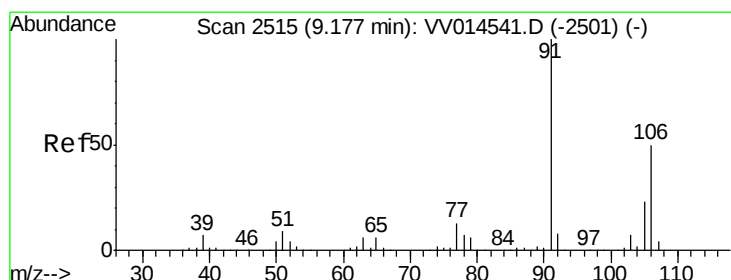
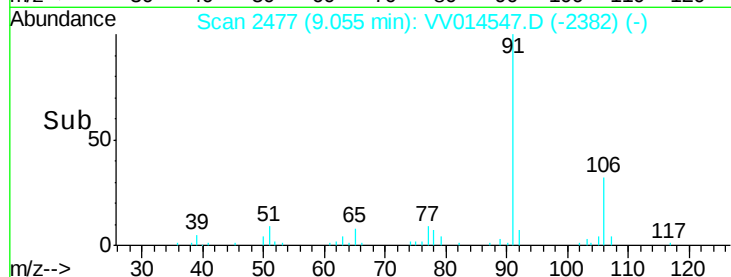
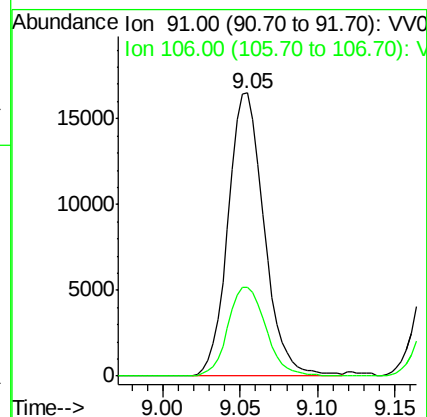
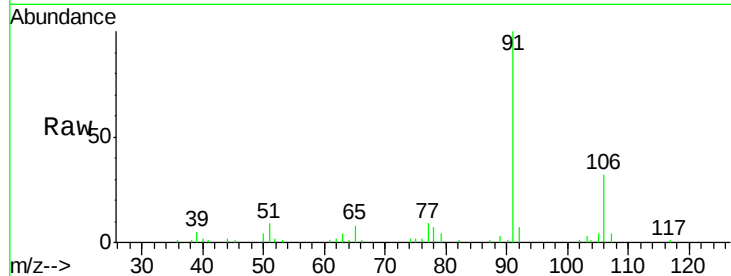
106 31.6 21.5 39.9

Manual Integrations

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#53

m,p-Xylene

Concen: 2.409 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV014547.D

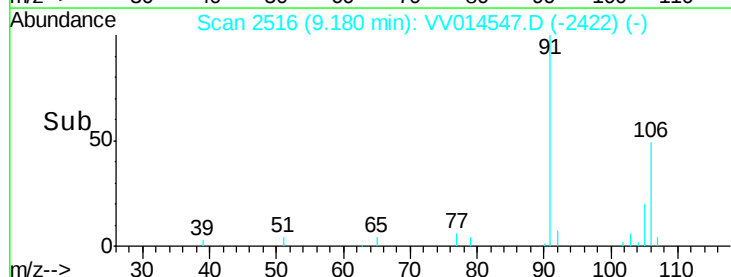
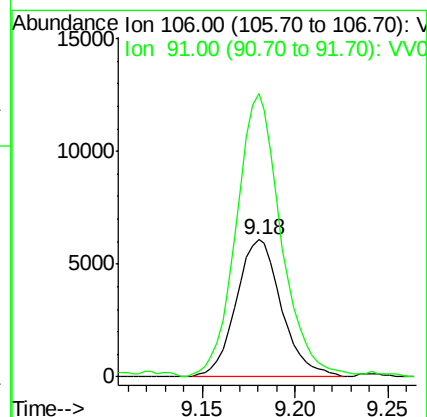
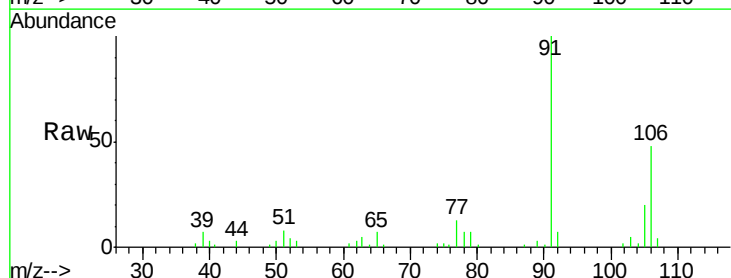
Acq: 10 Feb 2020 13:22

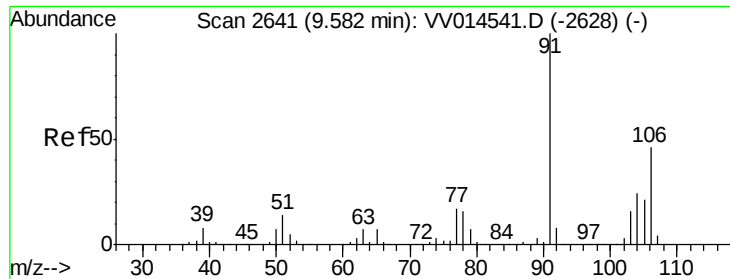
Tgt Ion: 106 Resp: 10350

Ion Ratio Lower Upper

106 100

91 206.5 141.4 262.6





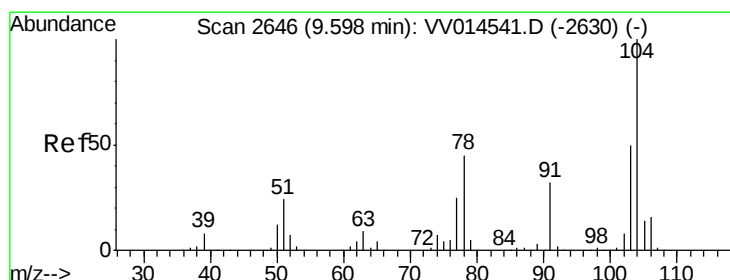
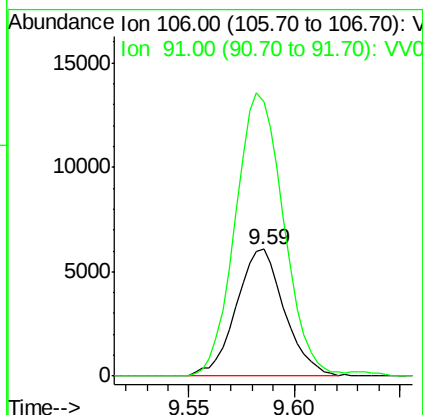
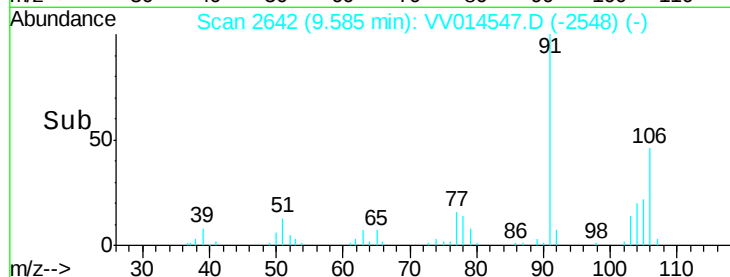
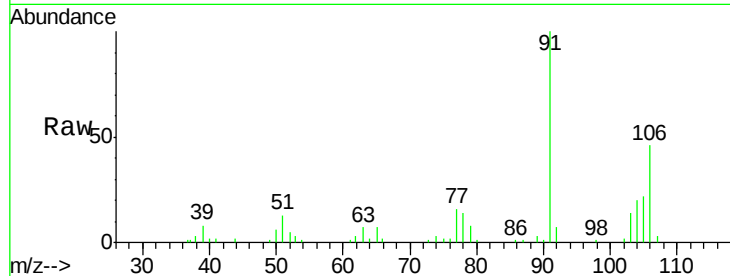
#54
o-Xylene
Concen: 2.355 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion:106 Resp: 9682
Ion Ratio Lower Upper
106 100
91 216.3 149.4 277.4

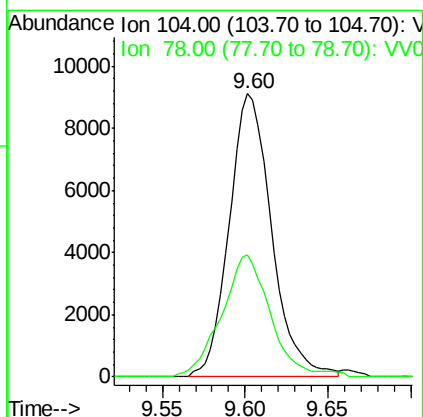
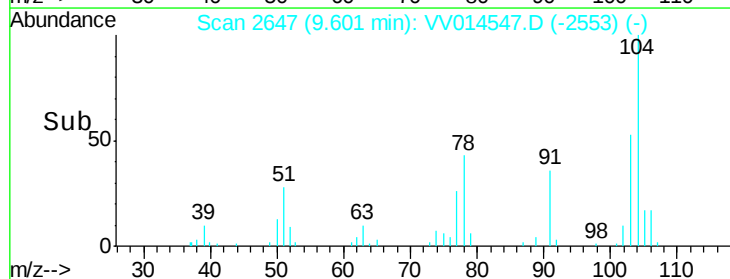
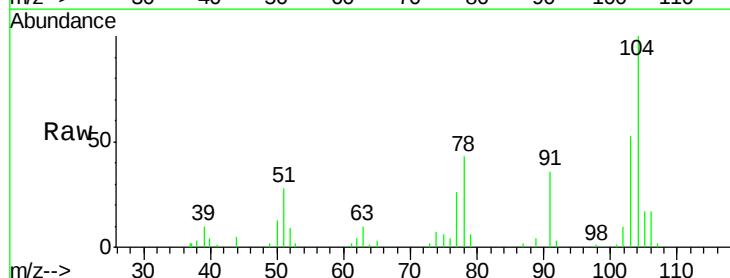
Manual Integrations
APPROVED

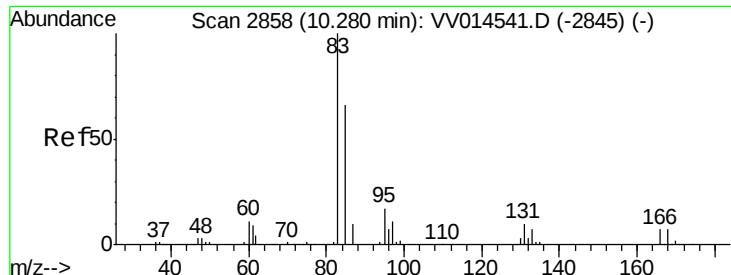
MMDadoda
2/12/2020 3:06:17 PM



#55
Styrene
Concen: 2.315 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion:104 Resp: 16267
Ion Ratio Lower Upper
104 100
78 43.0 31.6 58.8





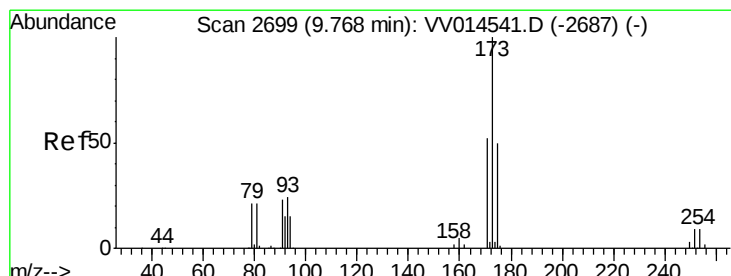
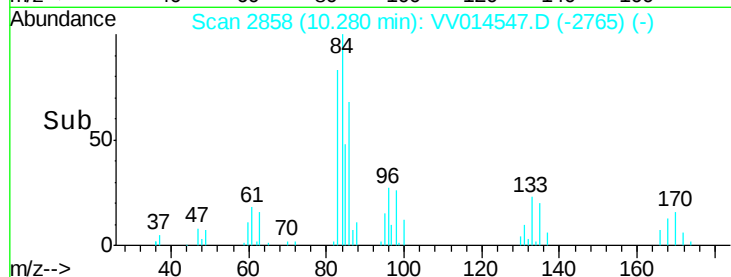
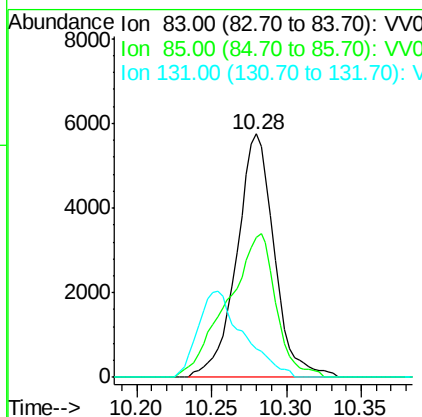
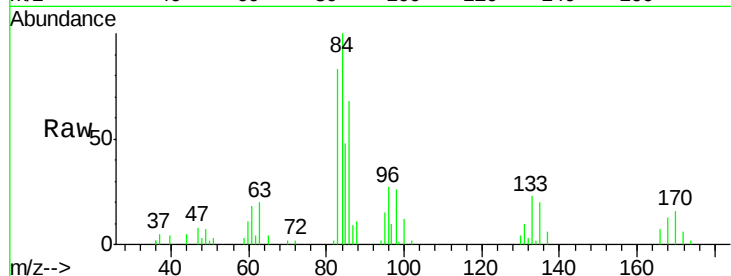
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.833 ug/L
 RT: 10.28 min Scan# 2858
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion	83	Resp	10062
Ion Ratio	100	Lower	Upper
83	100		
85	57.2	45.2	84.0
131	12.0	7.8	11.8#

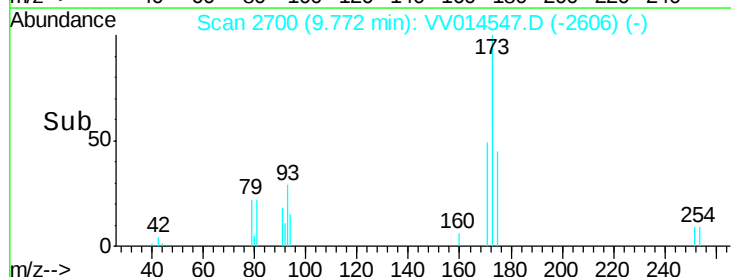
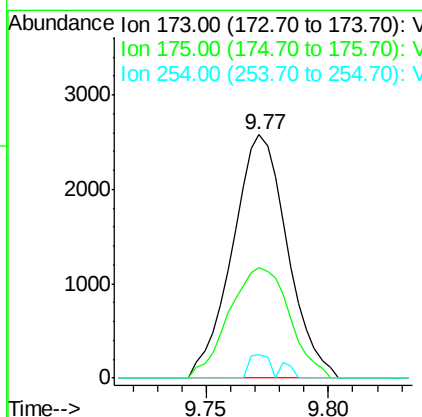
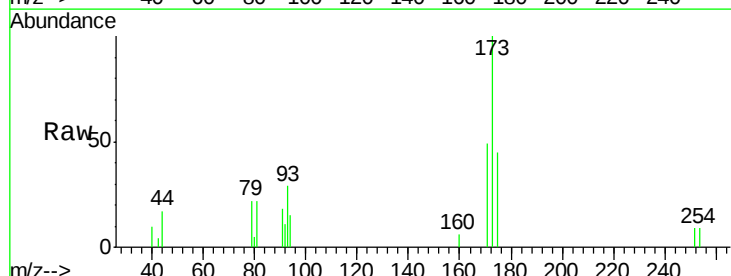
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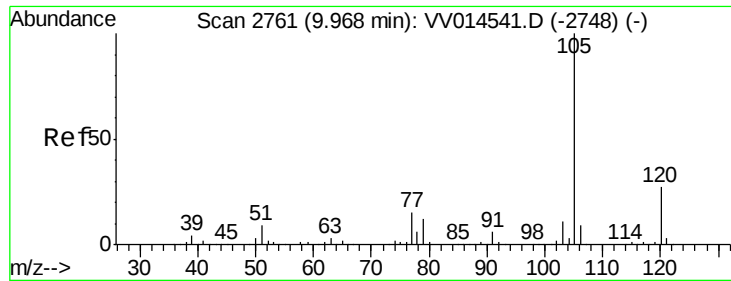
MMDadoda
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#59
 Bromoform
 Concen: 2.281 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Tgt Ion	173	Resp	4024
Ion Ratio	100	Lower	Upper
173	100		
175	50.0	37.8	56.8
254	3.4	7.0	10.6#





#60

Isopropylbenzene

Concen: 2.439 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

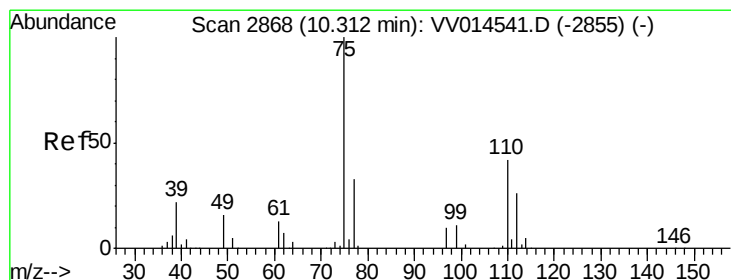
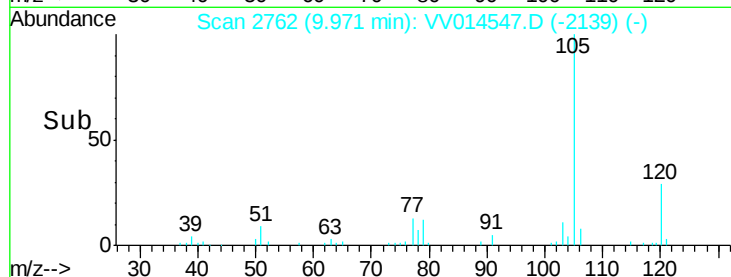
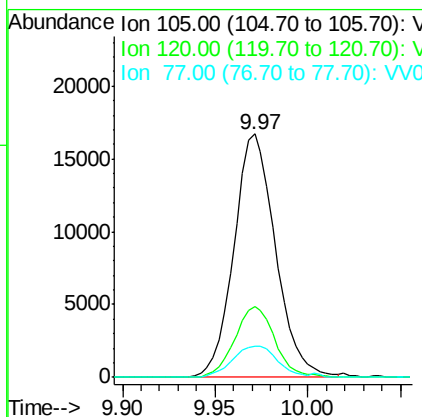
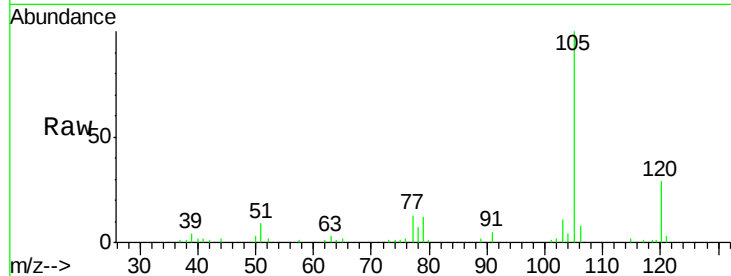
ClientSampled :

MDL03

Tot Ion:	105	Resp:	26091
Ion Ratio	Lower	Upper	
105	100		
120	27.9	21.5	32.3
77	14.0	12.2	18.4

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#61

1,2,3-Trichloropropane

Concen: 2.414 ug/L

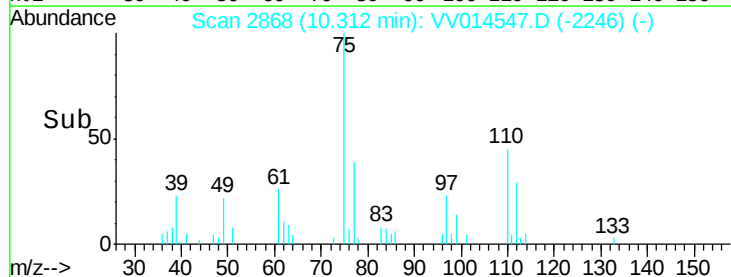
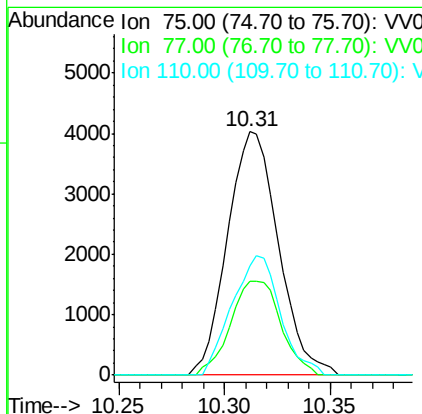
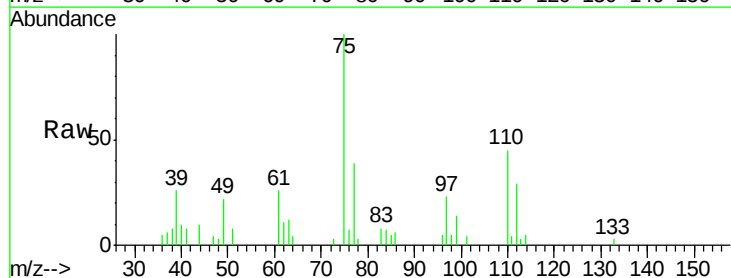
RT: 10.31 min Scan# 2868

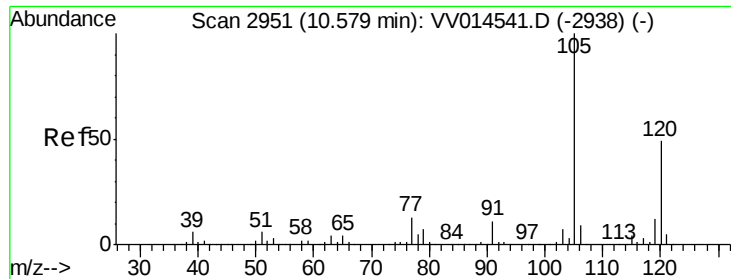
Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion:	75	Resp:	6761
Ion Ratio	Lower	Upper	
75	100		
77	38.1	25.8	38.8
110	46.4	32.4	48.6





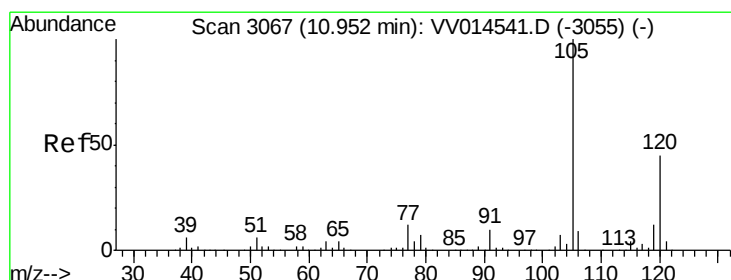
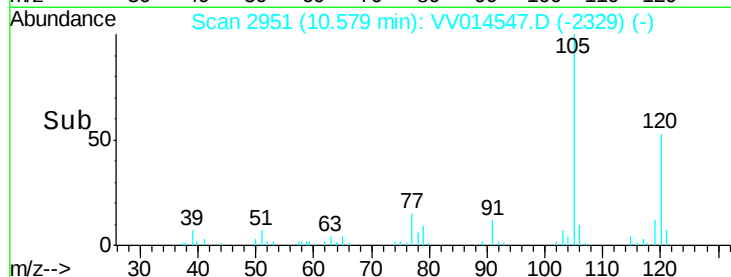
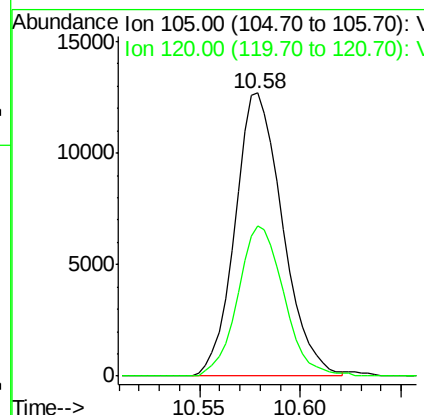
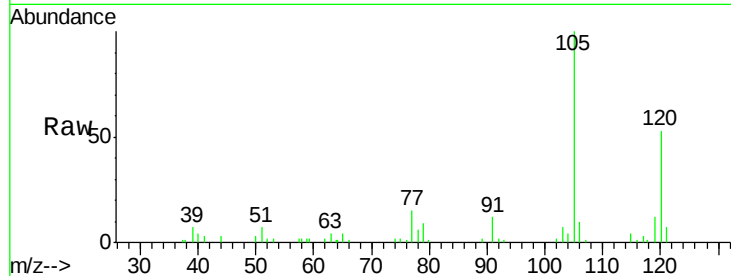
#62
 1,3,5-Trimethylbenzene
 Concen: 2.290 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion:105 Resp: 20970
 Ion Ratio Lower Upper
 105 100
 120 51.3 39.0 58.6

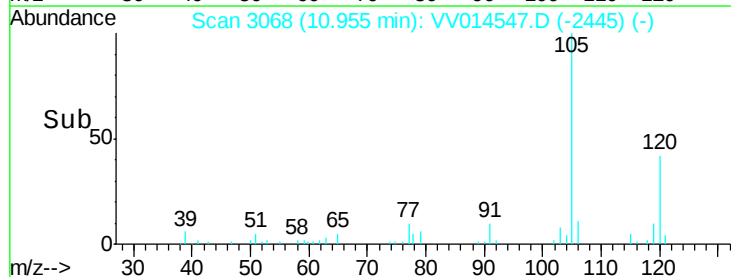
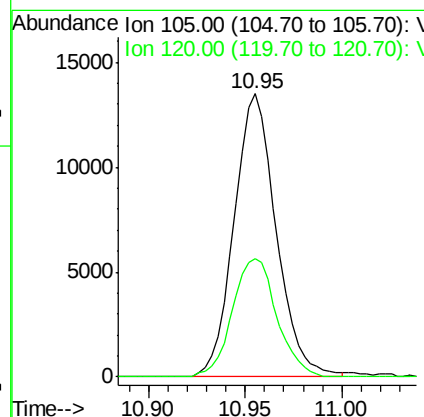
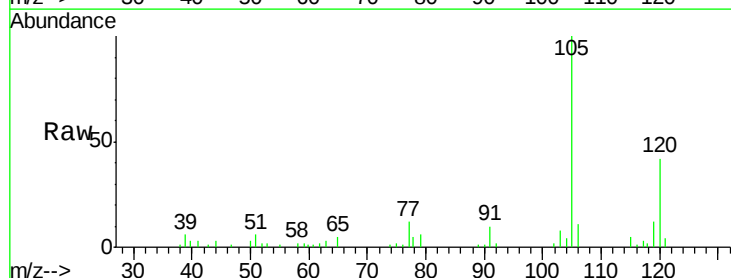
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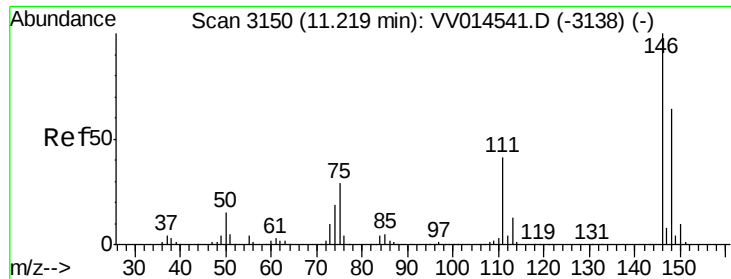
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.266 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Tgt Ion:105 Resp: 20461
 Ion Ratio Lower Upper
 105 100
 120 44.0 36.2 54.4





#64

1,3-Dichlorobenzene

Concen: 2.462 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

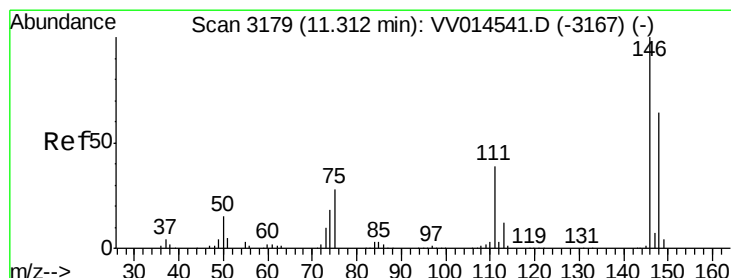
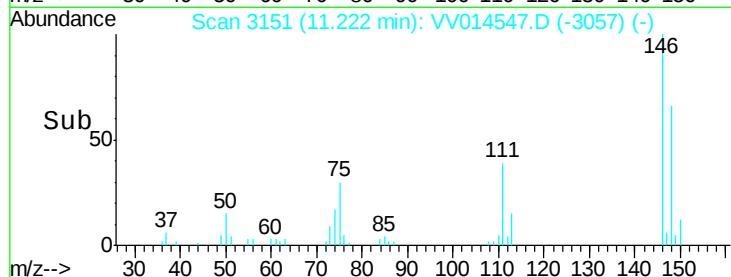
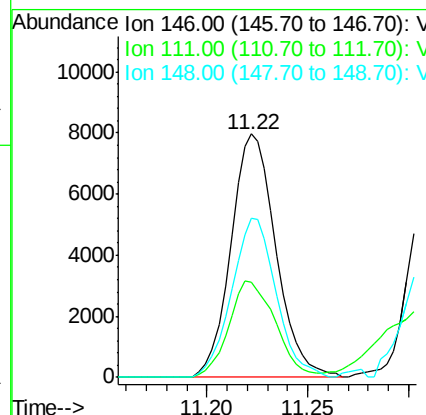
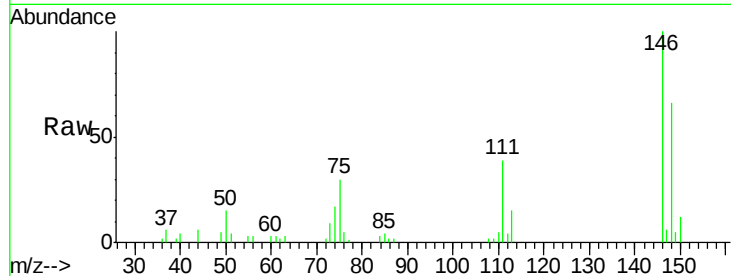
ClientSampled :

MDL03

Tot Ion:	146	Resp:	12420
Ion Ratio	Lower	Upper	
146	100		
111	39.0	28.9	53.7
148	65.5	44.4	82.5

Manual Integrations
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#65

1,4-Dichlorobenzene

Concen: 2.620 ug/L

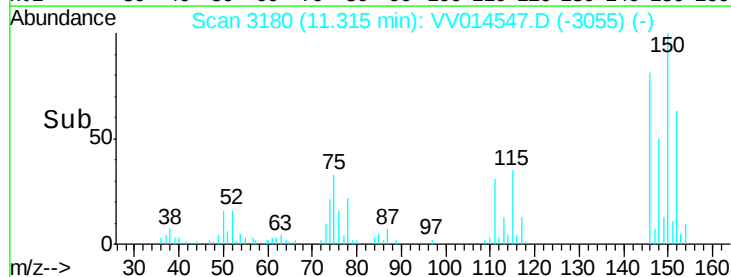
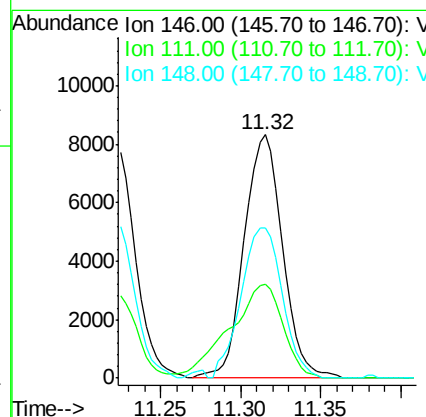
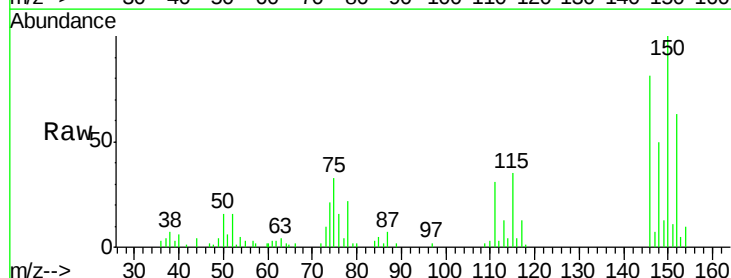
RT: 11.32 min Scan# 3180

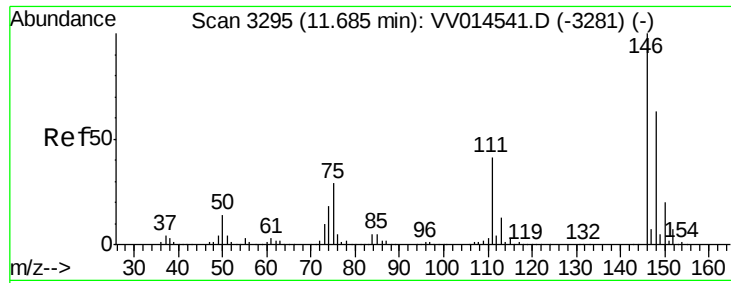
Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion:	146	Resp:	13608
Ion Ratio	Lower	Upper	
146	100		
111	38.6	28.1	52.3
148	61.8	44.4	82.4





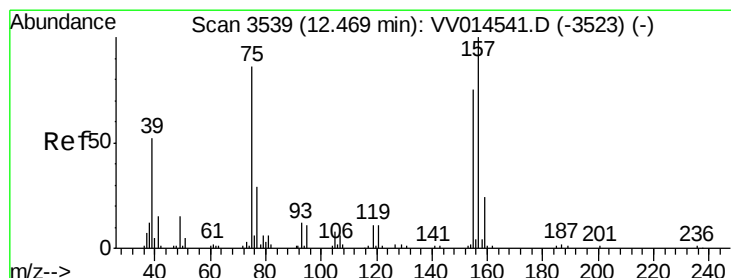
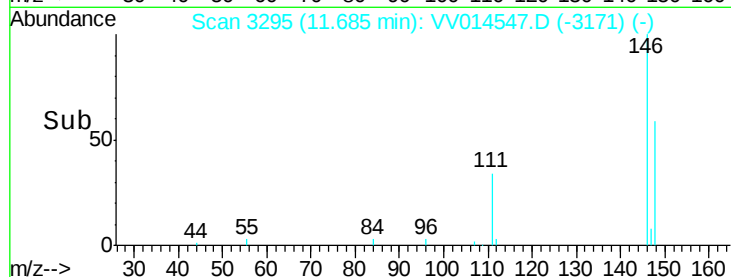
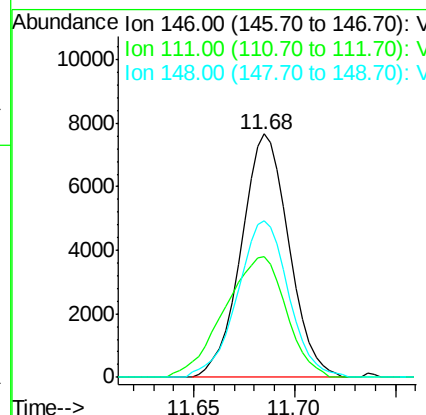
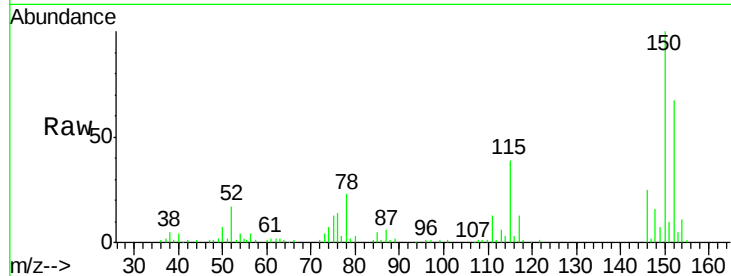
#67
 1,2-Dichlorobenzene
 Concen: 2.591 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	34.6	51.8
148	64.2	50.2	75.4

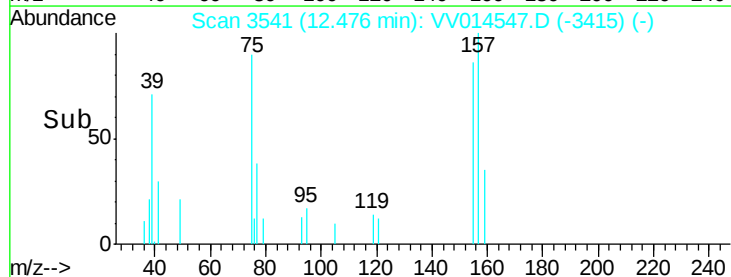
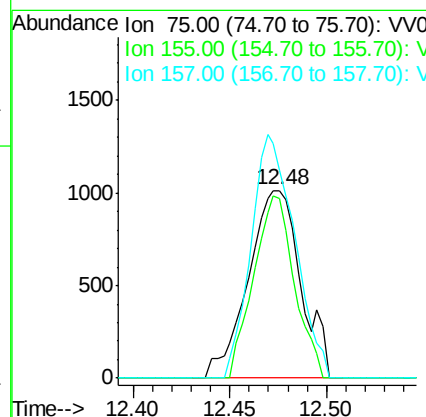
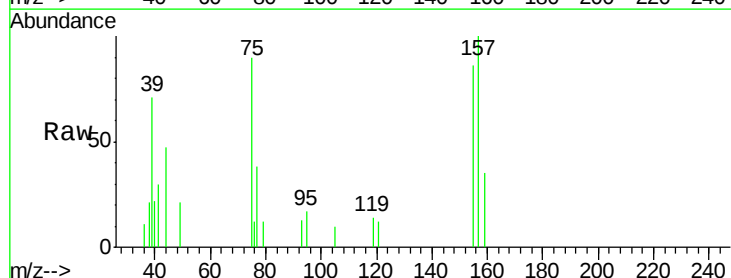
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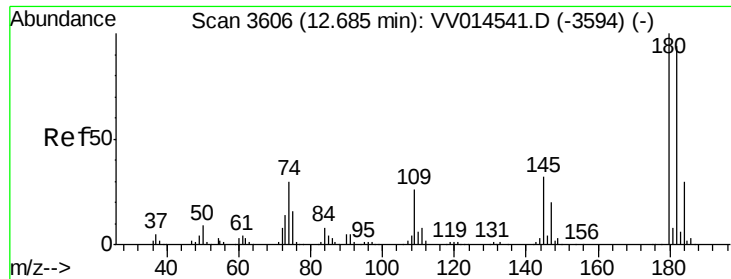
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.439 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.01 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.5	68.3	102.5
157	110.7	87.1	130.7





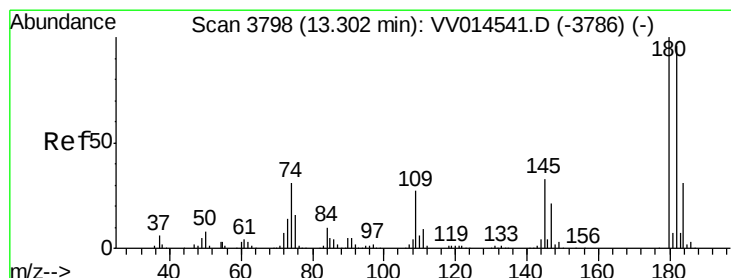
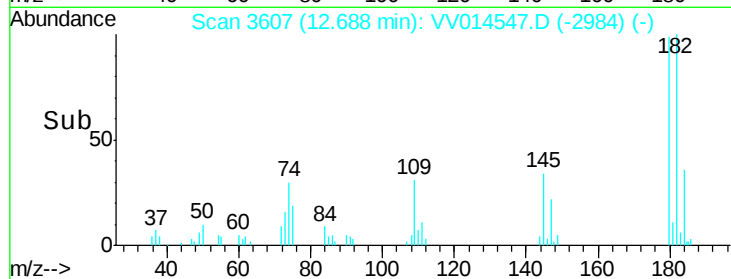
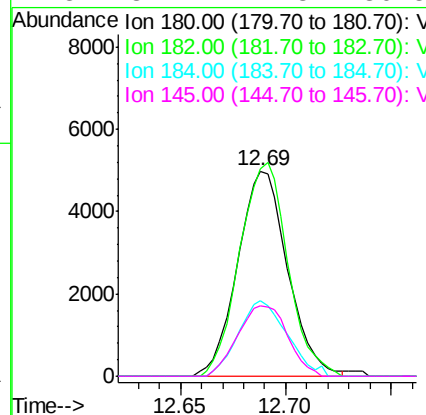
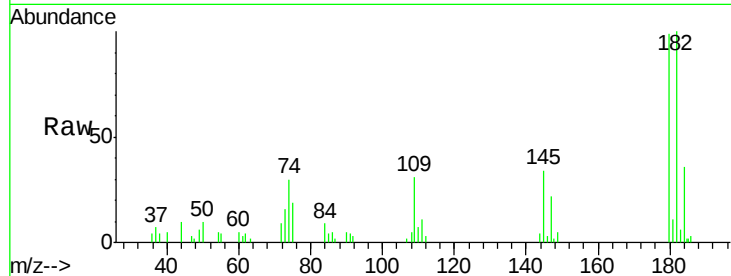
#69
 1,3,5-Trichlorobenzene
 Concen: 2.307 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion:	180	Resp:	8201
Ion	Ratio	Lower	Upper
180	100		
182	100.9	75.0	112.4
184	35.2	24.2	36.2
145	34.4	24.3	36.5

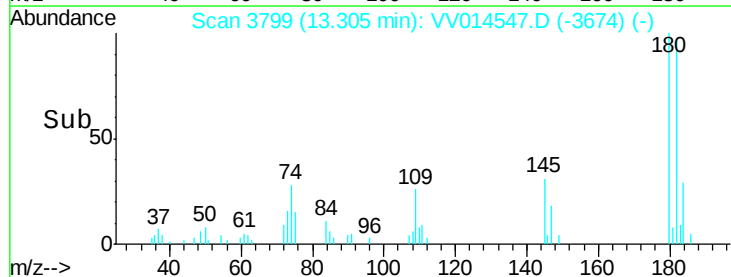
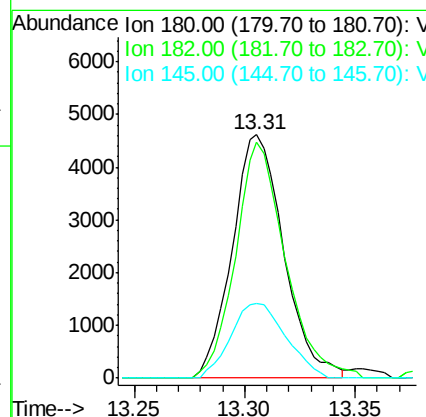
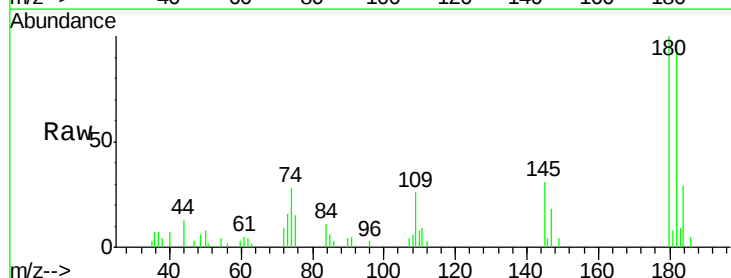
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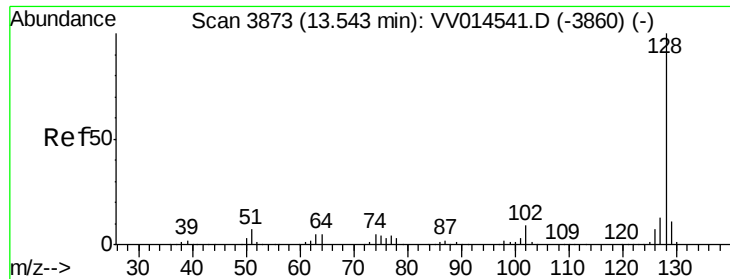
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#70
 1,2,4-trichlorobenzene
 Concen: 2.291 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Tgt Ion:	180	Resp:	7478
Ion	Ratio	Lower	Upper
180	100		
182	93.5	76.0	114.0
145	32.8	25.3	37.9





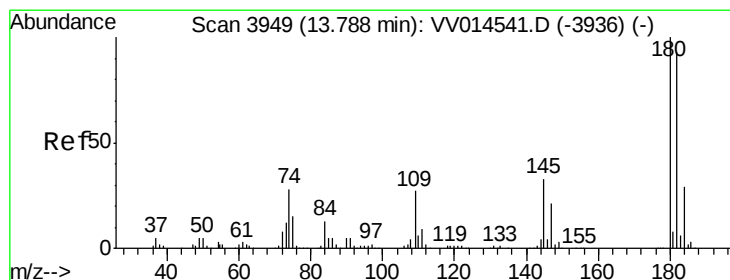
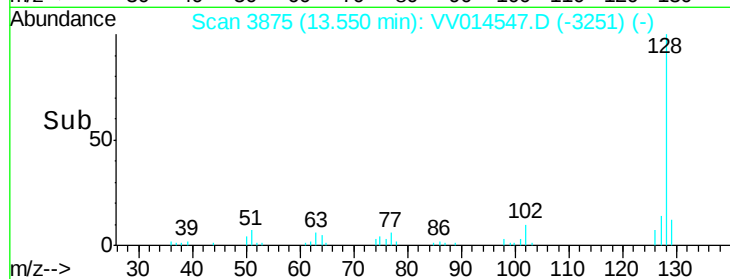
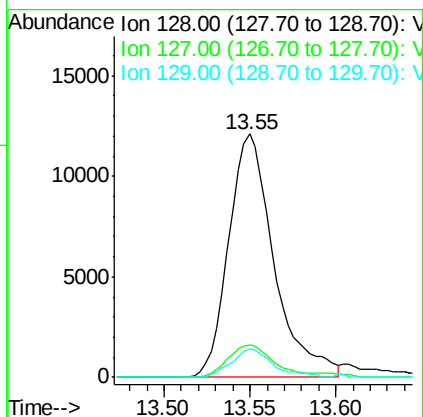
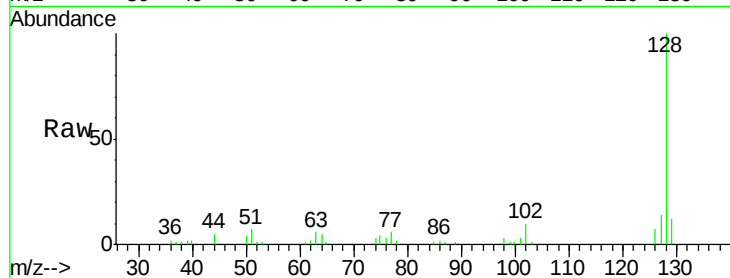
#71
Naphthalene
Concen: 2.074 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	10.7	8.7	13.1

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#72
1,2,3-Trichlorobenzene
Concen: 2.285 ug/L
RT: 13.79 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.7	75.2	112.8
145	31.8	27.1	40.7

