

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV020820\
 Data File : VV014536.D
 Acq On : 07 Feb 2020 14:08
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 2/10/2020 11:56:35 AM

Quant Time: Feb 08 00:48:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Sat Feb 08 00:03:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	348945	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	326915	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	164217	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	80719	42.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.32%
7) Chloroethane-d5	1.59	69	57509	44.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.20%
11) 1,1-Dichloroethene-d2	2.13	63	100326	34.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.82%
21) 2-Butanone-d5	3.92	46	146000	99.95	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.95%
24) Chloroform-d	4.40	84	203920	47.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.58%
26) 1,2-Dichloroethane-d4	5.08	65	132504	50.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.68%
32) Benzene-d6	5.10	84	439952	48.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.11	67	136862	49.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.62%
41) Toluene-d8	7.36	98	414129	49.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.36%
43) trans-1,3-Dichloropropene-	7.66	79	70591	47.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.86%
47) 2-Hexanone-d5	8.13	63	119771	101.42	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.42%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	179757	49.87	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.74%
66) 1,2-Dichlorobenzene-d4	11.67	152	158585	50.35	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	6959	2.490 ug/L	97
3) Chloromethane	1.26	50	7076	2.500 ug/L	90
5) Vinyl chloride	1.33	62	5207	2.402 ug/L #	67
6) Bromomethane	1.54	94	2216	2.223 ug/L	87
8) Chloroethane	1.60	64	2444	2.269 ug/L	97
9) Trichlorofluoromethane	1.77	101	8028	2.749 ug/L	91
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4256	3.035 ug/L	86
12) 1,1-Dichloroethene	2.15	96	3794	2.829 ug/L #	1
13) Acetone	2.18	43	6206	5.074 ug/L	97
14) Carbon disulfide	2.32	76	15886	2.440 ug/L	98
15) Methyl Acetate	2.46	43	5586	2.375 ug/L	97
16) Methylene chloride	2.54	84	7052	2.769 ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	6222	2.633 ug/L	97
18) Methyl tert-butyl Ether	2.80	73	18259	2.440 ug/L	97
19) 1,1-Dichloroethane	3.23	63	10691	2.530 ug/L	97
20) cis-1,2-Dichloroethene	3.97	96	7005	2.634 ug/L	85
22) 2-Butanone	4.03	43	8006m	4.426 ug/L	

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Manual Integrations
 APPROVED

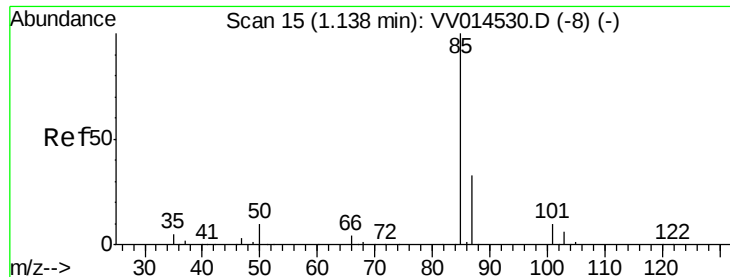
MMDadoda
 2/10/2020 11:56:35 AM

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 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	3279	2.604	ug/L	87
25) Chloroform	4.42	83	17198	4.003	ug/L	99
27) 1,2-Dichloroethane	5.18	62	8345	2.607	ug/L #	93
29) Cyclohexane	4.72	56	9719	2.418	ug/L	95
30) 1,1,1-Trichloroethane	4.66	97	9566	2.564	ug/L	99
31) Carbon tetrachloride	4.88	117	8254	2.508	ug/L	94
33) Benzene	5.15	78	23967	2.494	ug/L	100
34) Trichloroethene	5.96	95	6166	2.420	ug/L	94
35) Methylcyclohexane	6.18	83	9663	2.321	ug/L	95
37) 1,2-Dichloropropane	6.22	63	6859	2.802	ug/L #	92
38) Bromodichloromethane	6.55	83	8421	2.563	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	9737	2.384	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	13933	4.404	ug/L	98
42) Toluene	7.43	91	27210	2.641	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	9223	2.519	ug/L	93
45) 1,1,2-Trichloroethane	7.88	97	5545	2.361	ug/L	96
46) Tetrachloroethene	8.02	164	4990	2.568	ug/L	96
48) 2-Hexanone	8.18	43	13654	5.606	ug/L #	92
49) Dibromochloromethane	8.29	129	6343	2.392	ug/L	92
50) 1,2-Dibromoethane	8.39	107	6509	2.559	ug/L	99
51) Chlorobenzene	8.92	112	17123	2.544	ug/L	99
52) Ethylbenzene	9.05	91	28722	2.485	ug/L	99
53) m,p-Xylene	9.18	106	11246	2.526	ug/L	88
54) o-Xylene	9.58	106	10826	2.541	ug/L	93
55) Styrene	9.60	104	17866	2.454	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.28	83	10014	2.720	ug/L #	96
59) Bromoform	9.77	173	4195	2.290	ug/L #	96
60) Isopropylbenzene	9.97	105	27485	2.475	ug/L	99
61) 1,2,3-Trichloropropane	10.31	75	7598	2.613	ug/L	98
62) 1,3,5-Trimethylbenzene	10.58	105	22020	2.316	ug/L	94
63) 1,2,4-Trimethylbenzene	10.96	105	22189	2.367	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	13828	2.640	ug/L	94
65) 1,4-Dichlorobenzene	11.31	146	14292	2.650	ug/L	96
67) 1,2-Dichlorobenzene	11.68	146	13714	2.700	ug/L	91
68) 1,2-Dibromo-3-chloropropan	12.47	75	2178	2.674	ug/L	97
69) 1,3,5-Trichlorobenzene	12.69	180	8861	2.401	ug/L	96
70) 1,2,4-trichlorobenzene	13.31	180	8319	2.455	ug/L	97
71) Naphthalene	13.55	128	27067	2.432	ug/L	98
72) 1,2,3-Trichlorobenzene	13.79	180	8115	2.465	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.490 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 6959

Ion Ratio Lower Upper

85 100

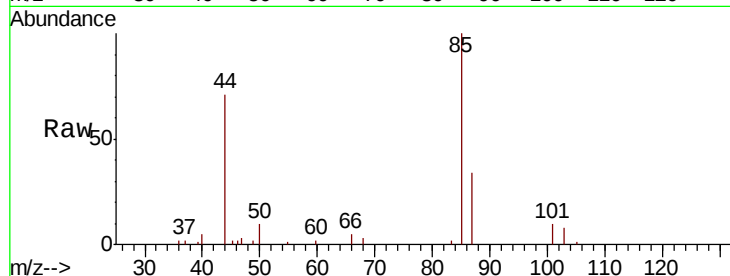
87 34.0 25.7 38.5

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Abundance Ion 85.00 (84.70 to 85.70): VV014536.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014536.D (-8) (-)

1.14

8000

6000

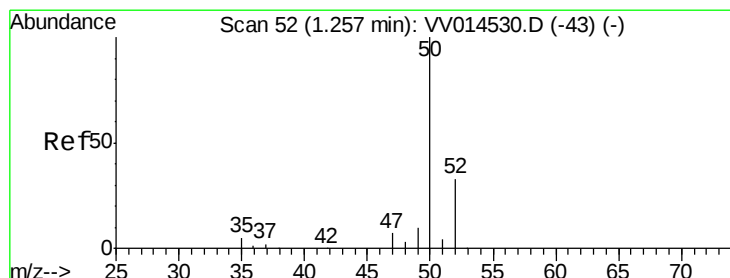
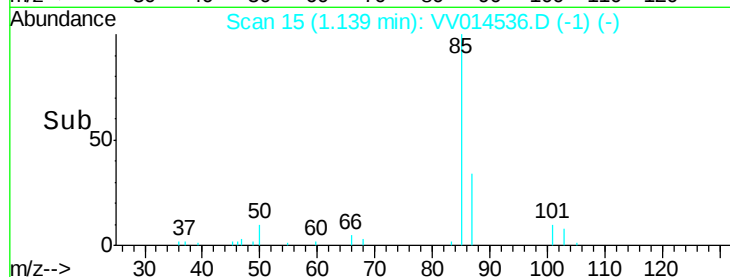
4000

2000

0

Time-->

1.10 1.12 1.14 1.16 1.18



#3

Chloromethane

Concen: 2.500 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014536.D

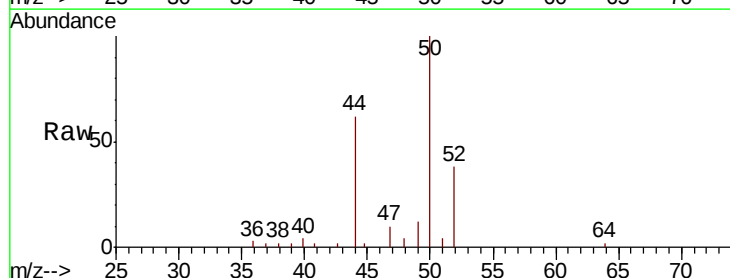
Acq: 07 Feb 2020 14:08

Tgt Ion: 50 Resp: 7076

Ion Ratio Lower Upper

50 100

52 38.1 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV014536.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV014536.D (-43) (-)

1.26

8000

6000

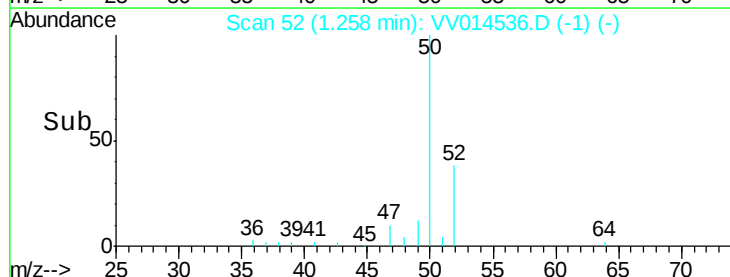
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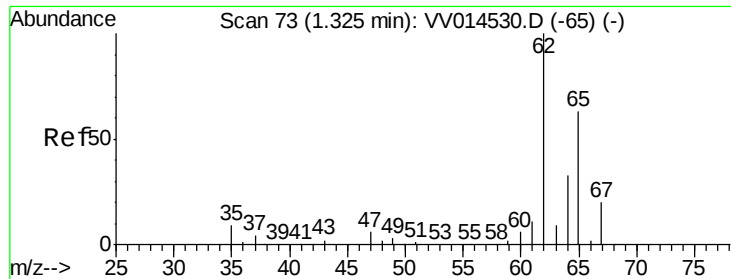
2000

0

Time-->

1.22 1.24 1.26 1.28 1.30





#5

Vinyl chloride

Concen: 2.402 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 62 Resp: 5207

Ion Ratio Lower Upper

62 100

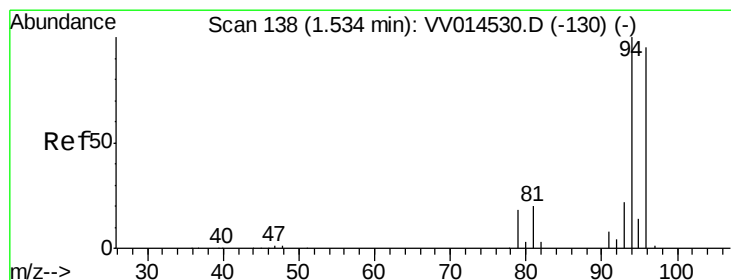
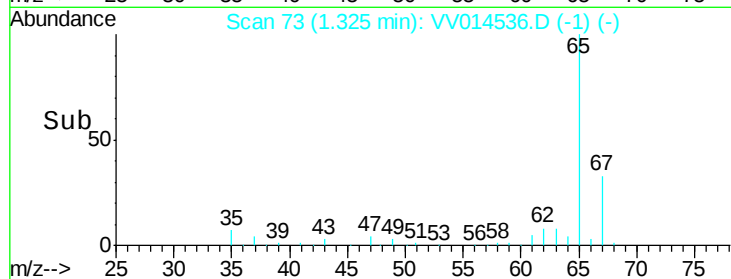
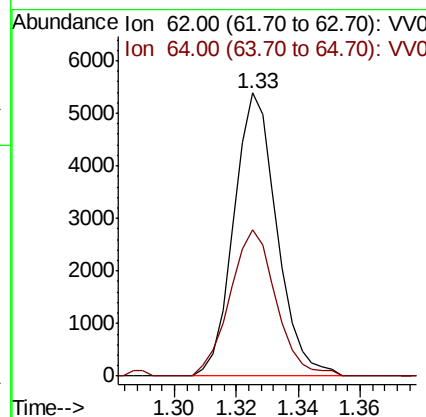
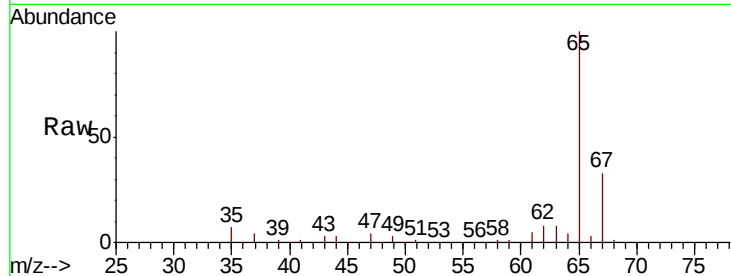
64 51.6 23.1 42.9#

Manual Integrations

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#6

Bromomethane

Concen: 2.223 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014536.D

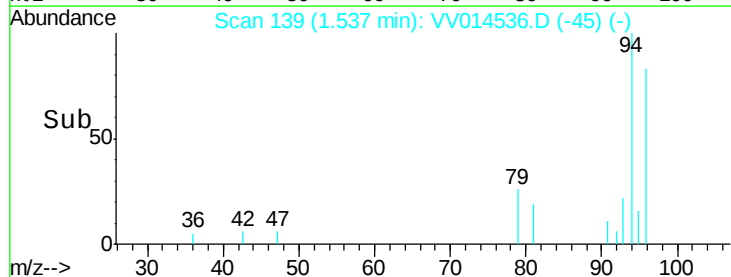
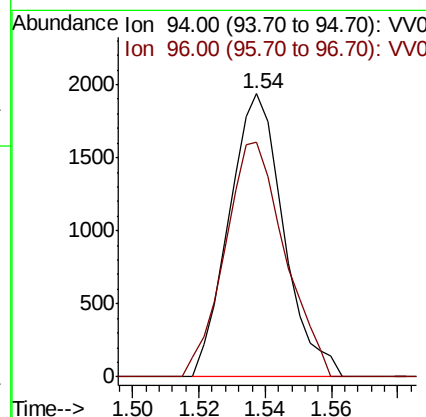
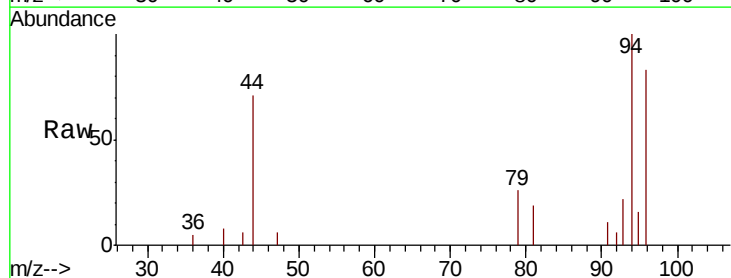
Acq: 07 Feb 2020 14:08

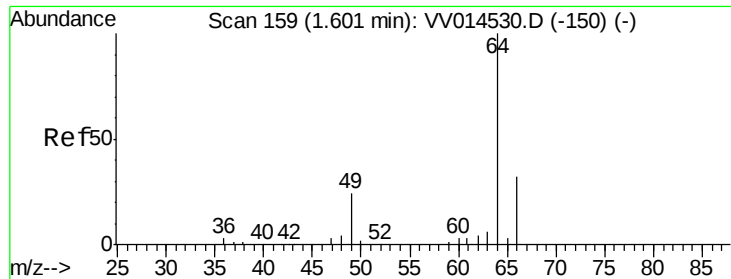
Tgt Ion: 94 Resp: 2216

Ion Ratio Lower Upper

94 100

96 83.1 67.3 124.9





#8

Chloroethane

Concen: 2.269 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 64 Resp: 2444

Ion Ratio Lower Upper

64 100

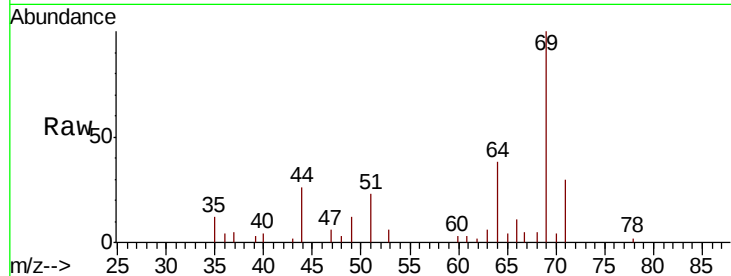
66 30.2 22.4 41.6

Manual Integrations

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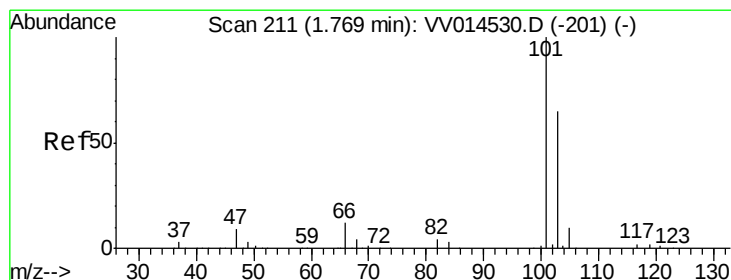
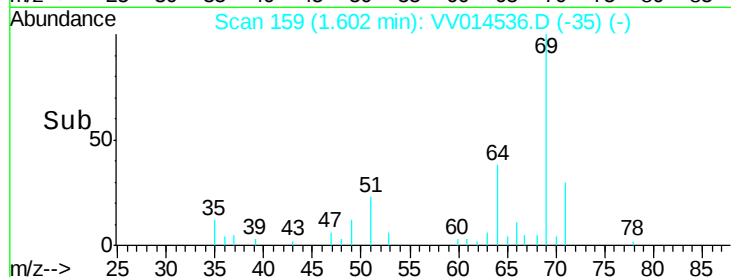
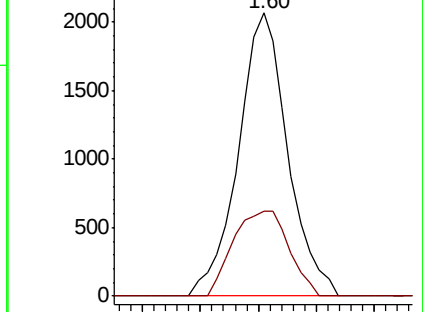
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2/10/2020 11:56:35 AM



Abundance Ion 64.00 (63.70 to 64.70): VV014530.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014530.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 2.749 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014536.D

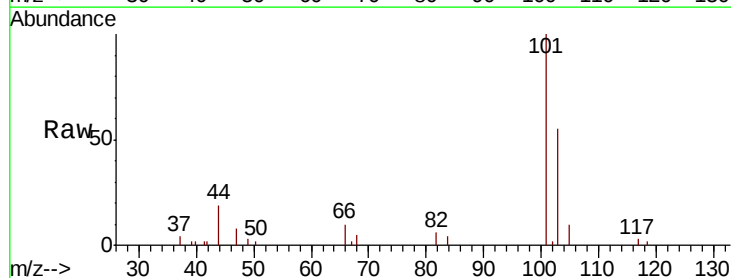
Acq: 07 Feb 2020 14:08

Tgt Ion: 101 Resp: 8028

Ion Ratio Lower Upper

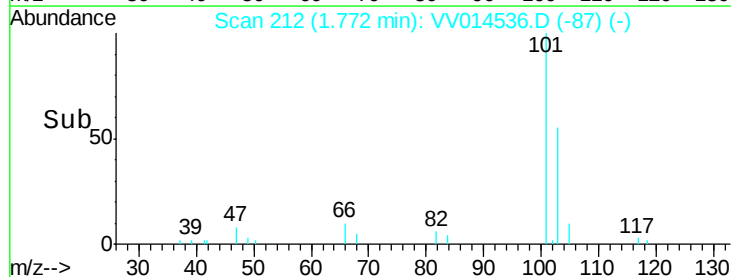
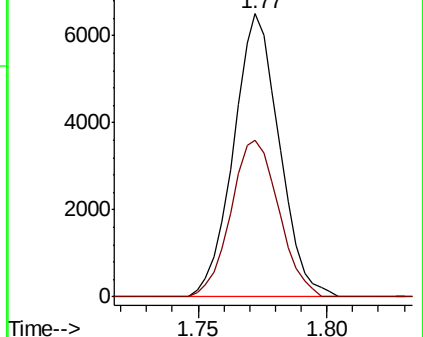
101 100

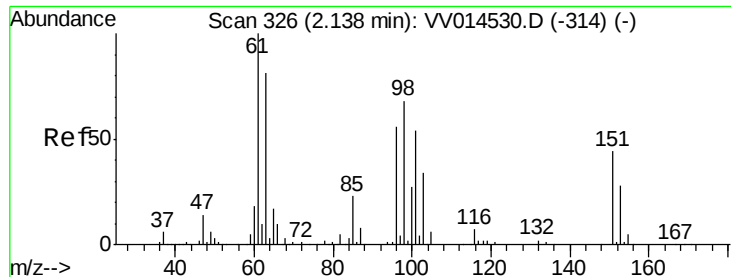
103 57.8 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV014530.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014530.D (-201) (-)





#10

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

Concen: 3.035 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

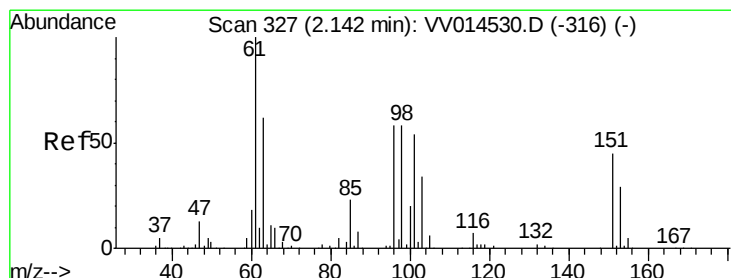
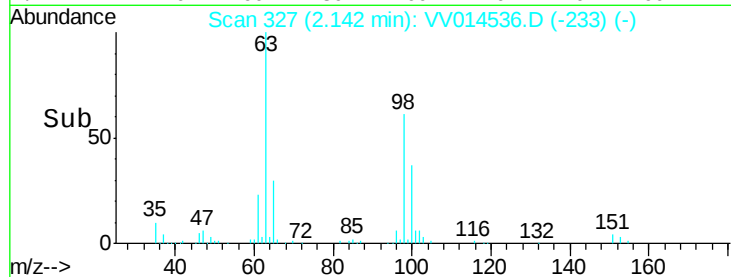
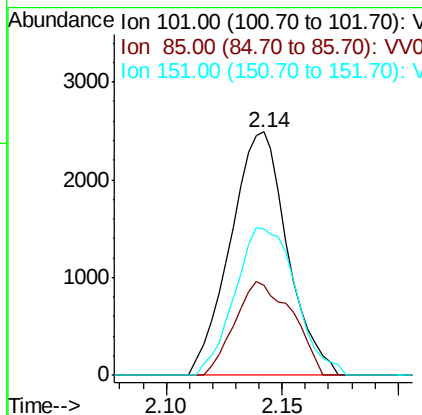
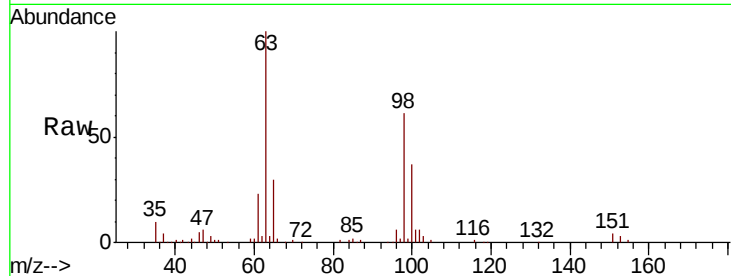
ClientSampled :

MDL04

Tot Ion:	101	Resp:	4256
Ion	Ratio	Lower	Upper
101	100		
85	38.9	35.0	52.6
151	64.7	64.4	96.6

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.829 ug/L

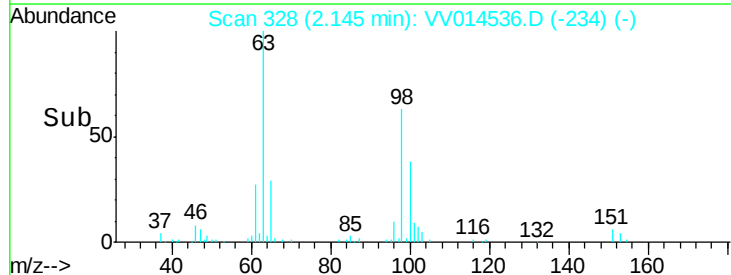
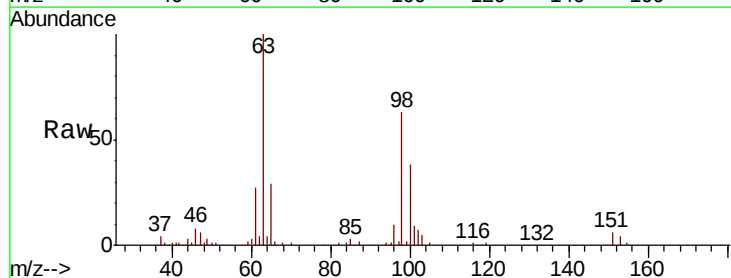
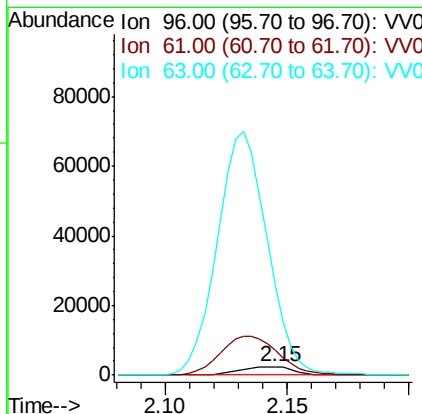
RT: 2.15 min Scan# 328

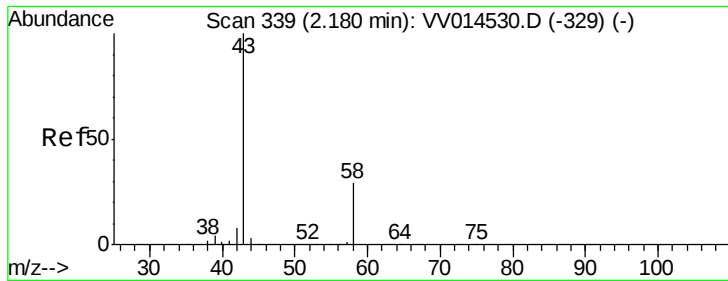
Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Tgt Ion:	96	Resp:	3794
Ion	Ratio	Lower	Upper
96	100		
61	281.7	125.0	232.2#
63	1029.3	101.6	188.6#





#13

Acetone

Concen: 5.074 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 6206

Ion Ratio Lower Upper

43 100

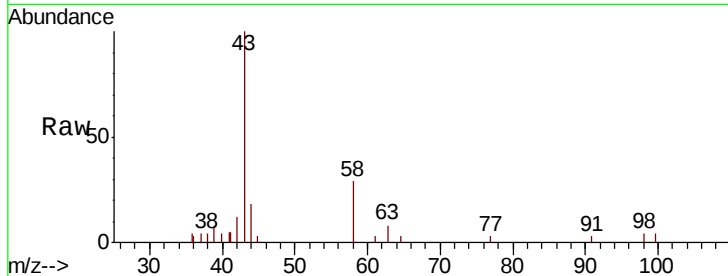
58 32.6 0.0 61.8

Manual Integrations

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2/10/2020 11:56:35 AM



Abundance Ion 43.00 (42.70 to 43.70): VV014536.D (-246) (-)

Ion 58.00 (57.70 to 58.70): VV014536.D (-246) (-)

2.18

4000

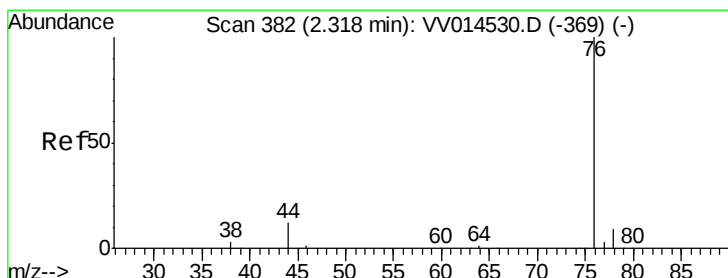
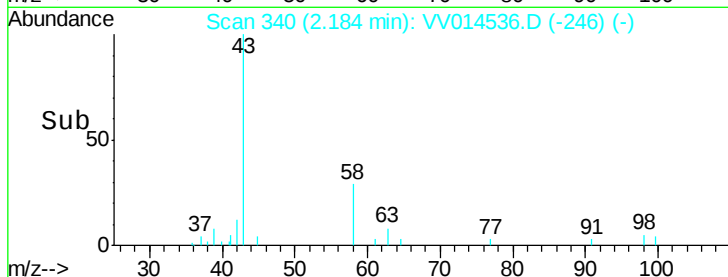
3000

2000

1000

0

Time-->



#14

Carbon disulfide

Concen: 2.440 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014536.D

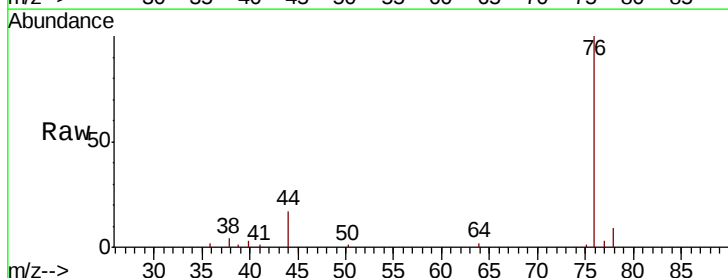
Acq: 07 Feb 2020 14:08

Tgt Ion: 76 Resp: 15886

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV014536.D (-289) (-)

Ion 78.00 (77.70 to 78.70): VV014536.D (-289) (-)

2.32

12000

10000

8000

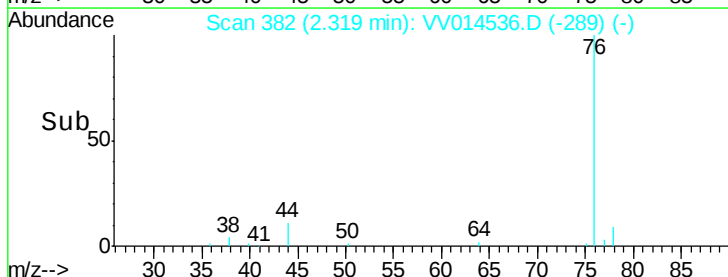
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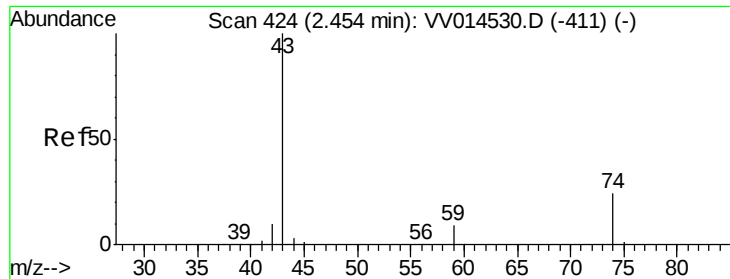
4000

2000

0

Time-->





#15

Methyl Acetate

Concen: 2.375 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.01 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 43 Resp: 5586

Ion Ratio Lower Upper

43 100

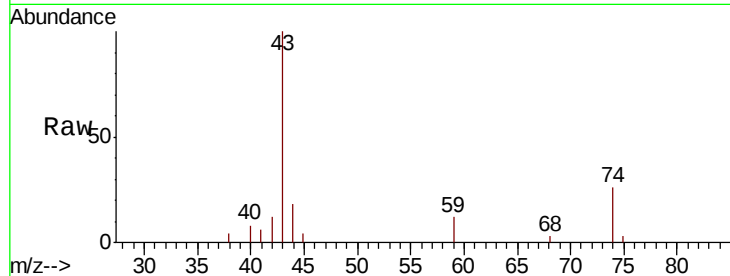
74 25.8 19.4 29.0

Manual Integrations

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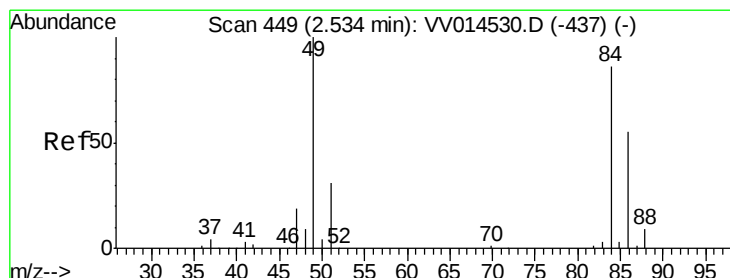
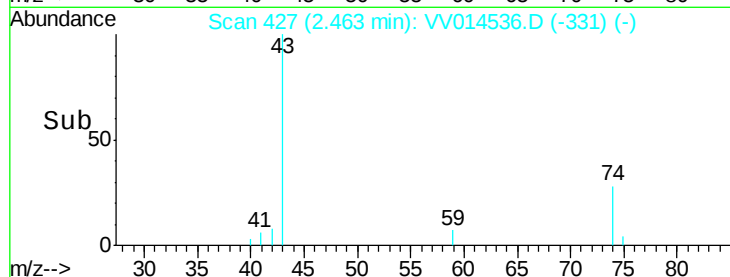
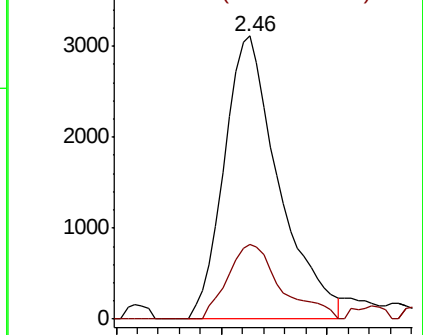
MMDadoda

2/10/2020 11:56:35 AM



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 2.769 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.01 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

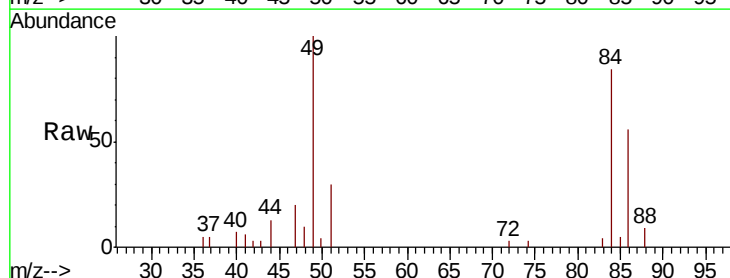
Tgt Ion: 84 Resp: 7052

Ion Ratio Lower Upper

84 100

86 66.6 44.6 82.8

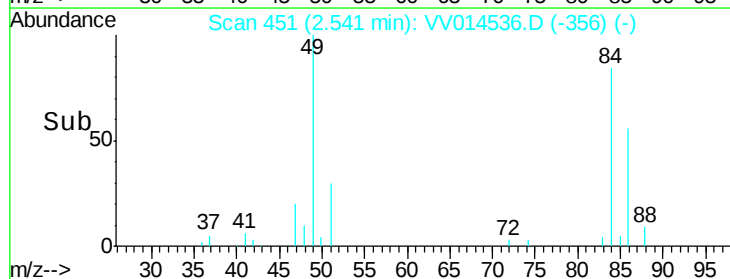
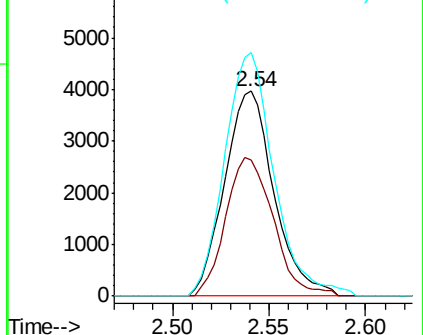
49 118.8 83.2 154.4

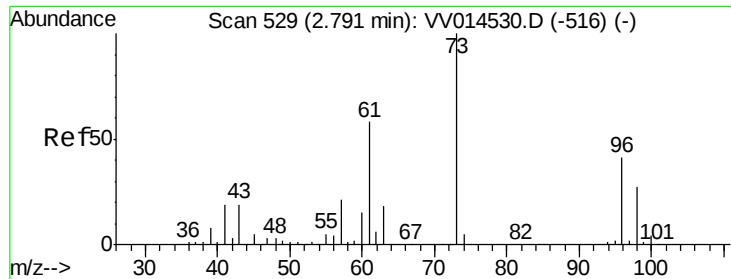


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 2.633 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

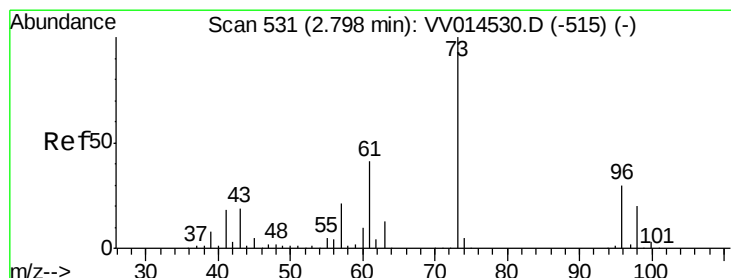
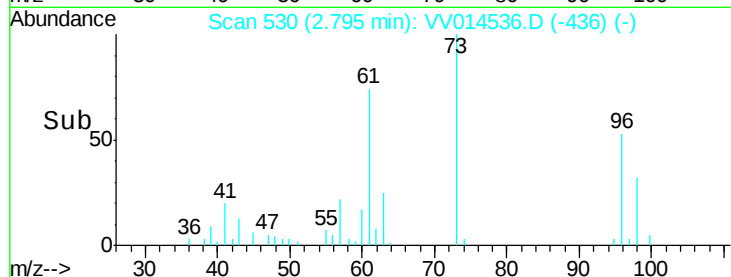
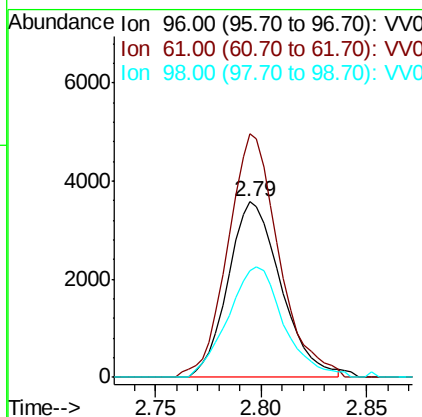
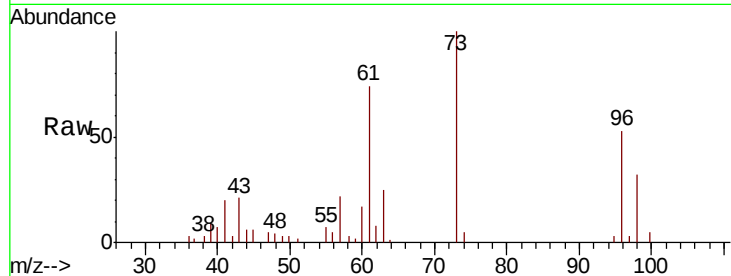
ClientSampled :

MDL04

Tot Ion:	96	Resp:	6222
Ion	Ratio	Lower	Upper
96	100		
61	138.9	95.8	178.0
98	61.0	45.1	83.7

Manual Integrations
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MMDadoda
2/10/2020 11:56:35 AM



#18

Methyl tert-butyl Ether

Concen: 2.440 ug/L

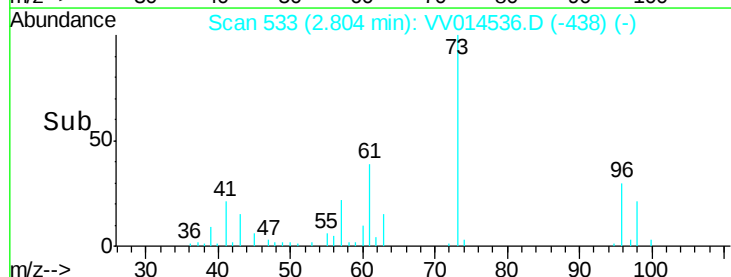
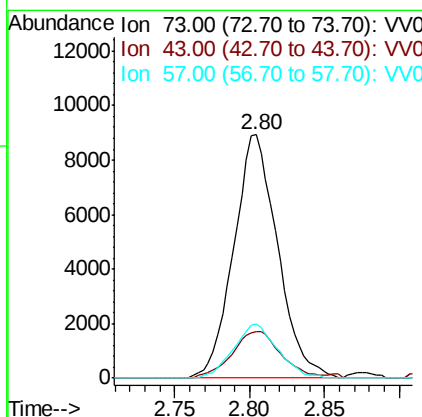
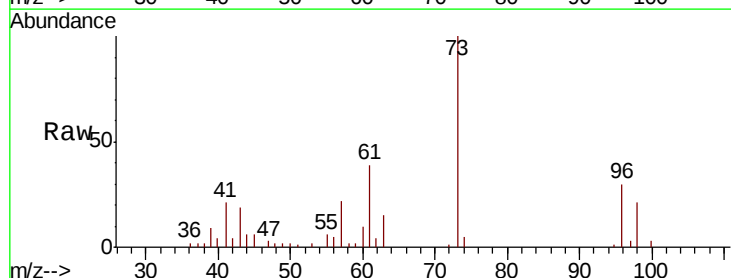
RT: 2.80 min Scan# 533

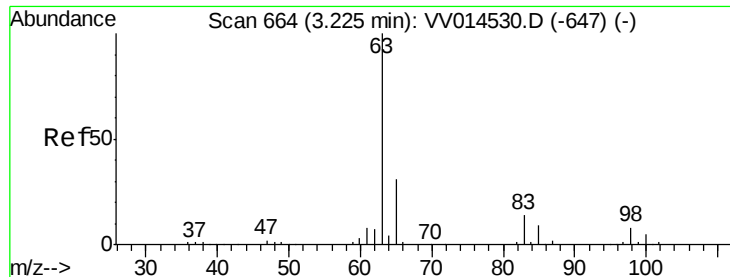
Delta R.T. 0.01 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Tgt Ion:	73	Resp:	18259
Ion	Ratio	Lower	Upper
73	100		
43	21.4	14.9	22.3
57	22.2	17.5	26.3





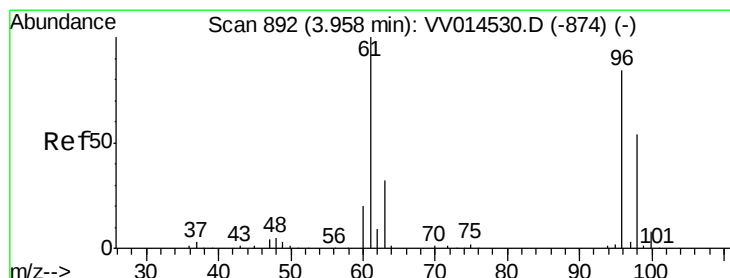
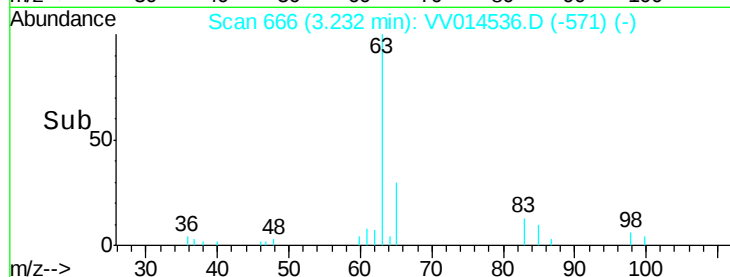
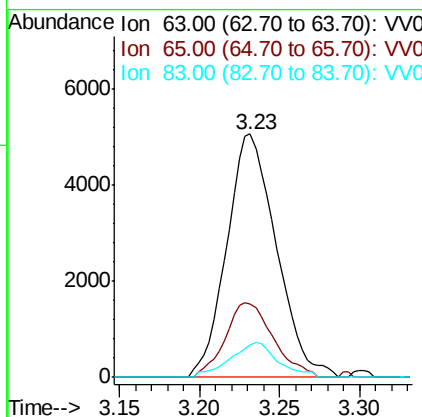
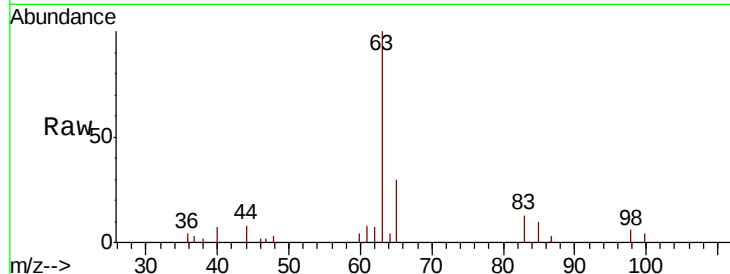
#19
 1,1-Dichloroethane
 Concen: 2.530 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.1	22.5	41.7
83	13.1	9.7	18.1

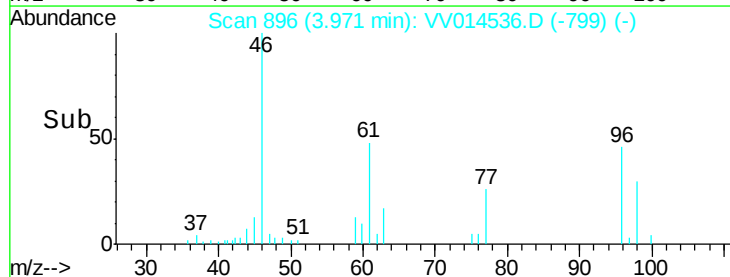
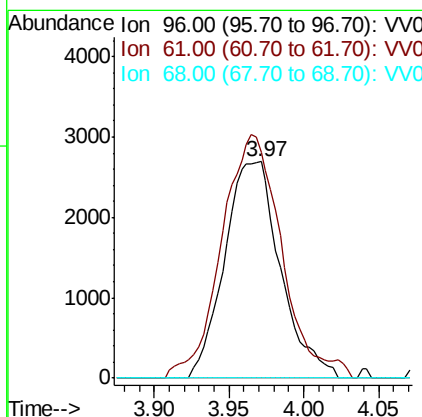
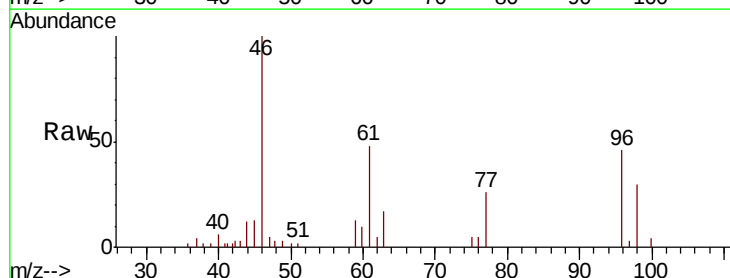
Manual Integrations
 APPROVED

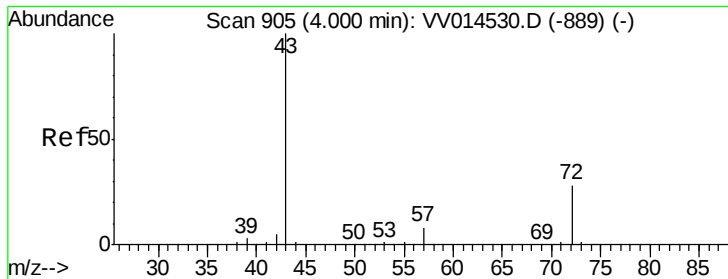
MMDadoda
 2/10/2020 11:56:35 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.634 ug/L
 RT: 3.97 min Scan# 896
 Delta R.T. 0.01 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	104.7	85.2	158.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.426 ug/L m

RT: 4.03 min Scan# 915

Delta R.T. 0.03 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 43 Resp: 8006

Ion Ratio Lower Upper

43 100

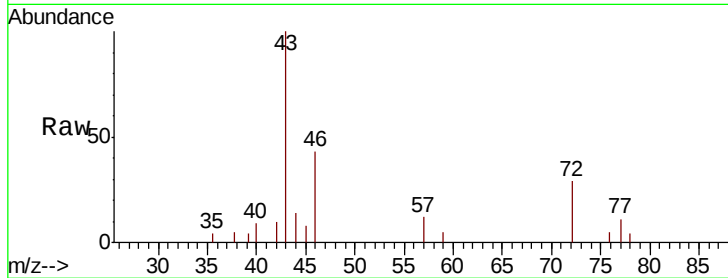
72 19.0 12.7 38.1

Manual Integrations

APPROVED

MMDadoda

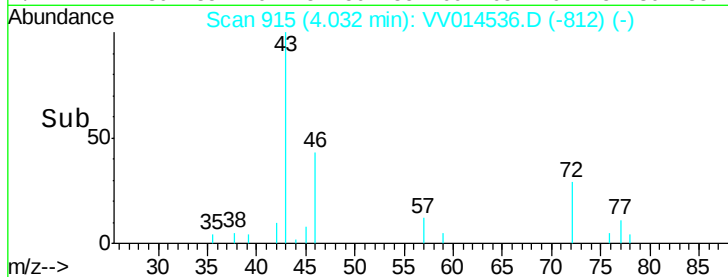
2/10/2020 11:56:35 AM



Abundance Ion 43.00 (42.70 to 43.70): VV014536.D (-912) (-)

Ion 72.00 (71.70 to 72.70): VV014536.D (-912) (-)

Time-->

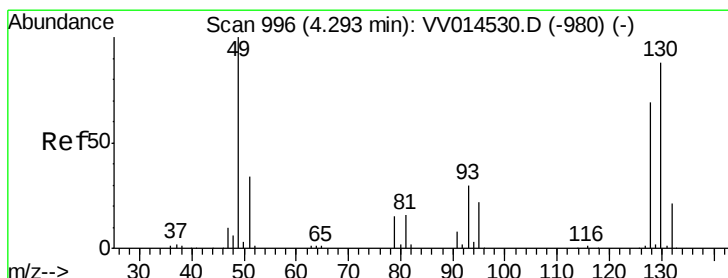


Abundance

Ion 43.00 (42.70 to 43.70): VV014536.D (-912) (-)

Ion 72.00 (71.70 to 72.70): VV014536.D (-912) (-)

Time-->



#23

Bromochloromethane

Concen: 2.604 ug/L

RT: 4.30 min Scan# 999

Delta R.T. 0.01 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Tgt Ion: 128 Resp: 3279

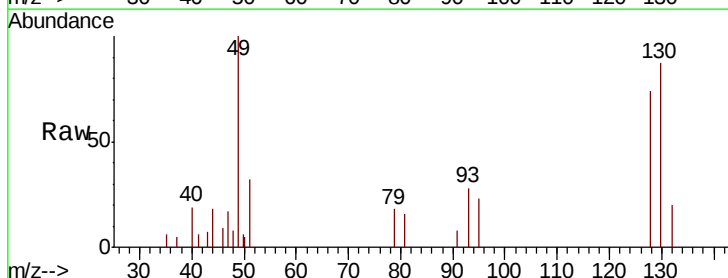
Ion Ratio Lower Upper

128 100

49 134.9 110.1 204.5

130 117.0 88.5 164.4

51 42.6 39.4 59.0



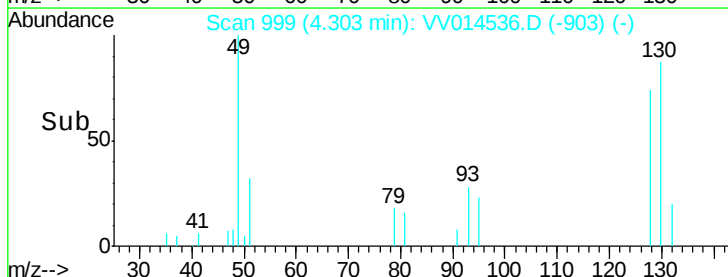
Abundance Ion 128.00 (127.70 to 128.70): VV014536.D (-903) (-)

Ion 49.00 (48.70 to 49.70): VV014536.D (-903) (-)

Ion 130.00 (129.70 to 130.70): VV014536.D (-903) (-)

Ion 51.00 (50.70 to 51.70): VV014536.D (-903) (-)

Time-->



Abundance

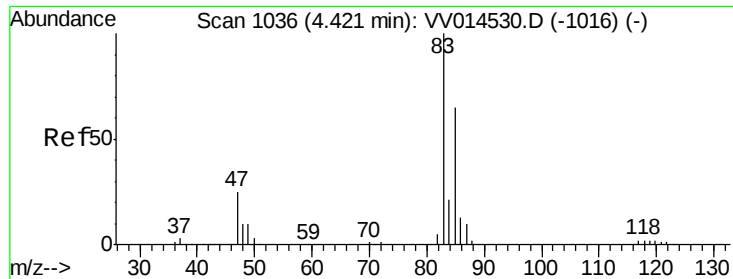
Ion 128.00 (127.70 to 128.70): VV014536.D (-903) (-)

Ion 49.00 (48.70 to 49.70): VV014536.D (-903) (-)

Ion 130.00 (129.70 to 130.70): VV014536.D (-903) (-)

Ion 51.00 (50.70 to 51.70): VV014536.D (-903) (-)

Time-->



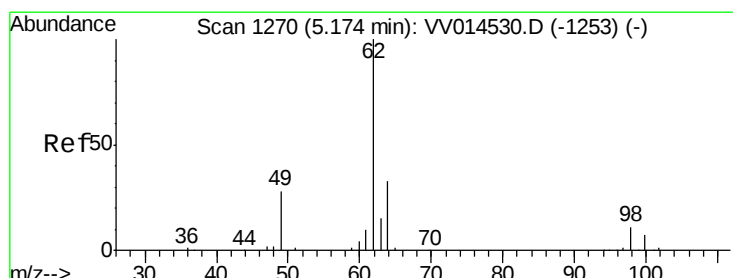
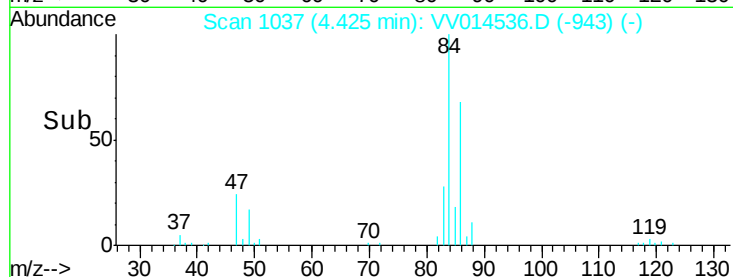
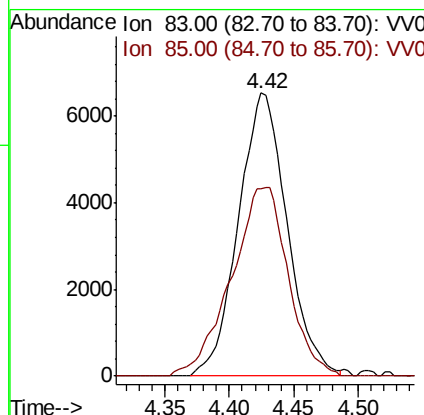
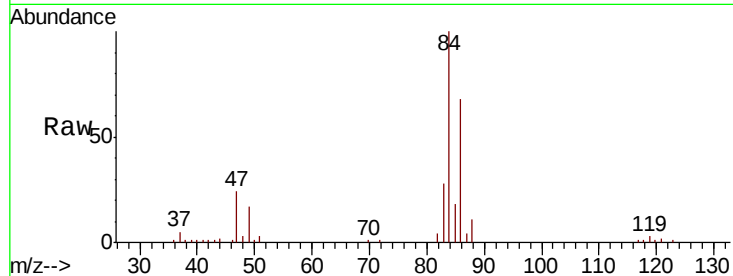
#25
Chloroform
Concen: 4.003 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	83	Resp	17198
Ion Ratio	100	Lower	Upper
85	66.2	45.8	85.0

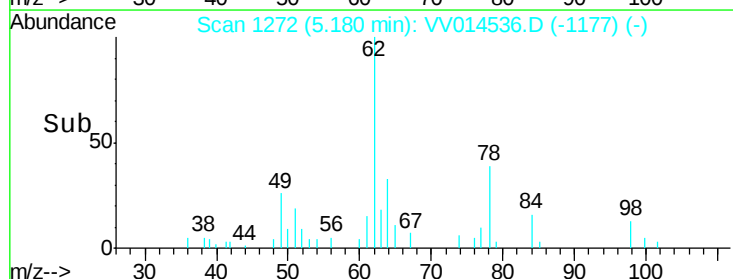
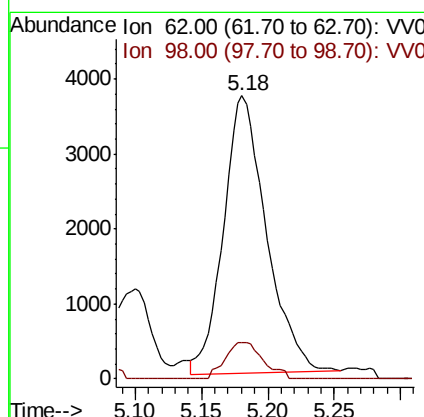
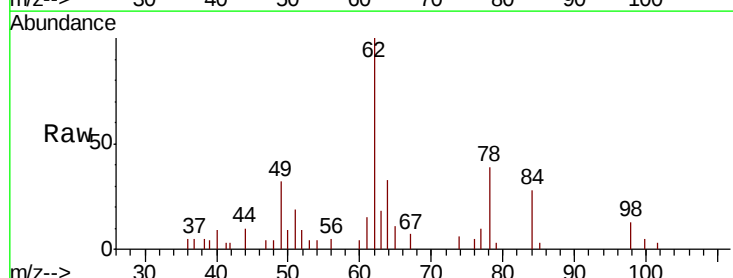
Manual Integrations
APPROVED

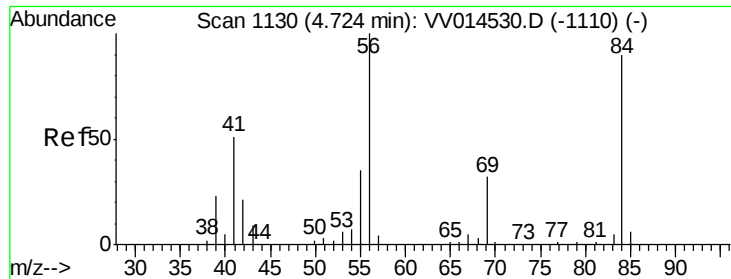
MMDadoda
2/10/2020 11:56:35 AM



#27
1,2-Dichloroethane
Concen: 2.607 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Tgt Ion	62	Resp	8345
Ion Ratio	100	Lower	Upper
98	12.9	8.2	12.4#





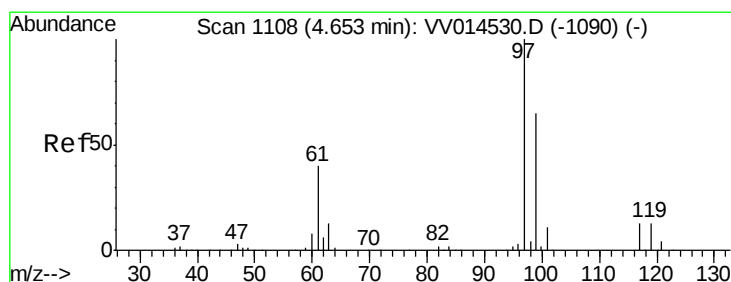
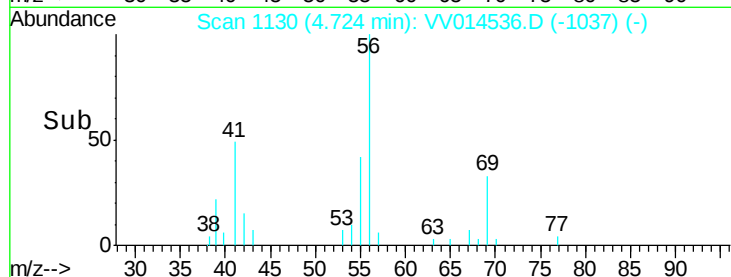
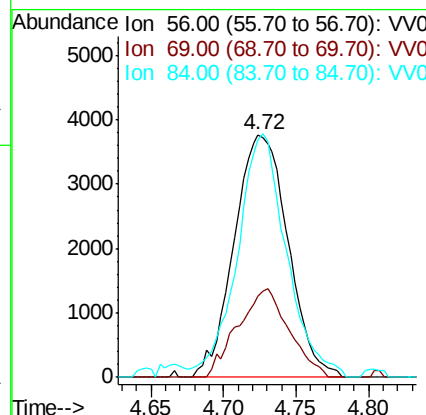
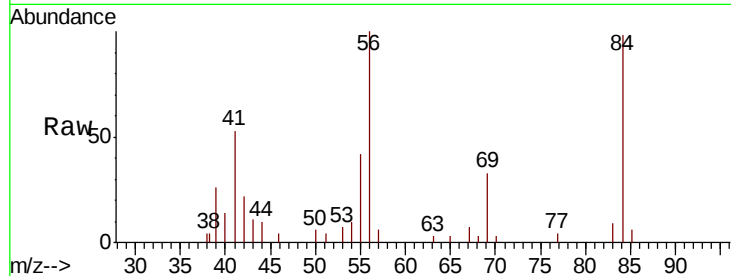
#29
Cyclohexane
Concen: 2.418 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.00 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.8	25.2	37.8
84	91.8	69.8	104.8

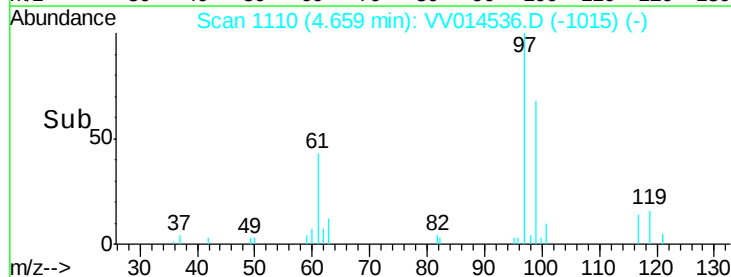
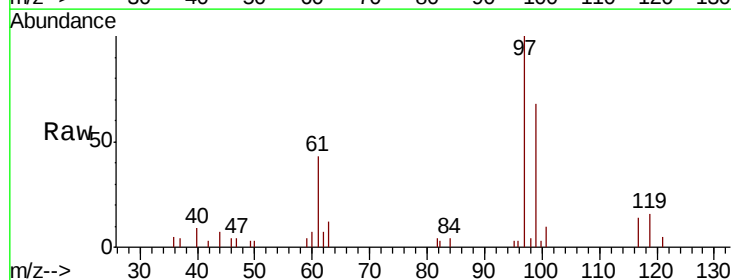
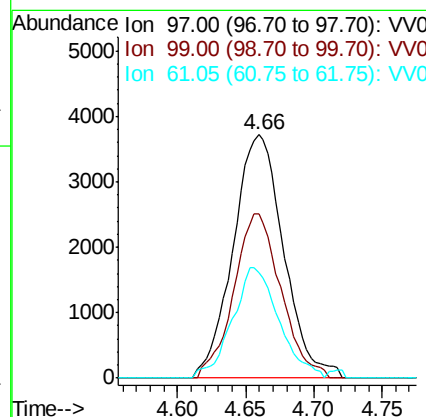
Manual Integrations
APPROVED

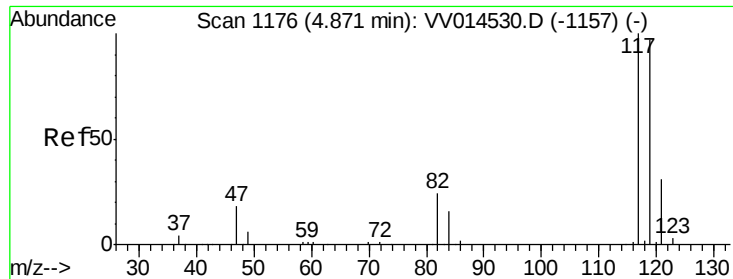
MMDadoda
2/10/2020 11:56:35 AM



#30
1,1,1-Trichloroethane
Concen: 2.564 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.01 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.9	50.6	76.0
61	41.8	33.0	49.4





#31

Carbon tetrachloride

Concen: 2.508 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion:117 Resp: 8254

Ion Ratio Lower Upper

117 100

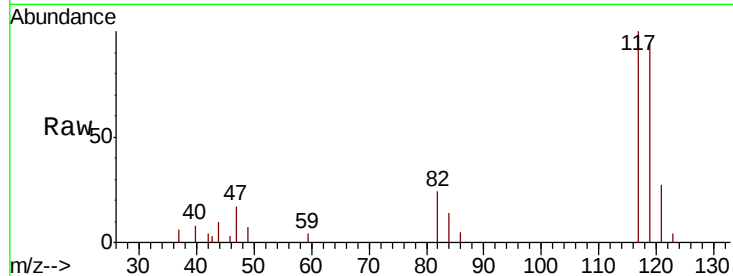
119 89.8 76.7 115.1

Manual Integrations

APPROVED

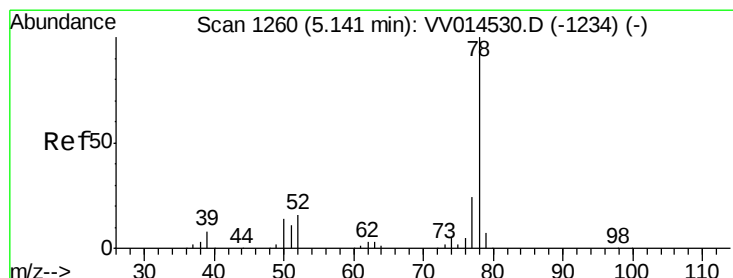
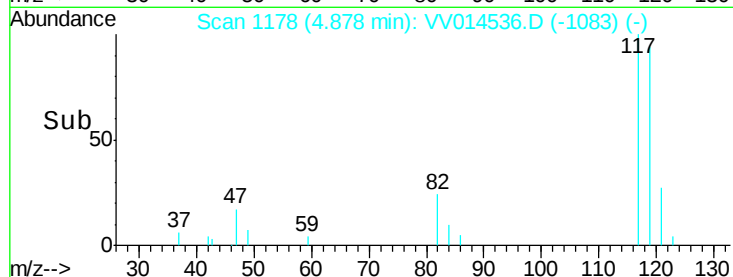
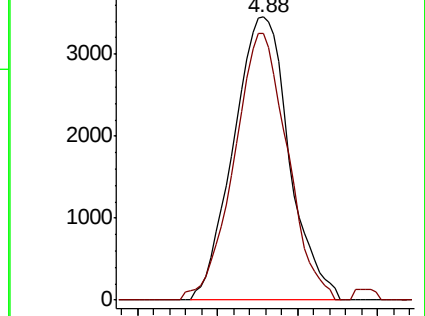
MMDadoda

2/10/2020 11:56:35 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.494 ug/L

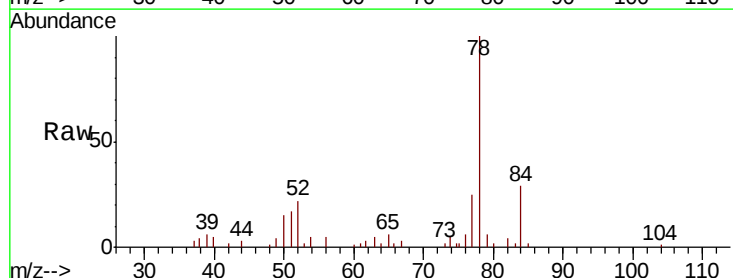
RT: 5.15 min Scan# 1262

Delta R.T. 0.01 min

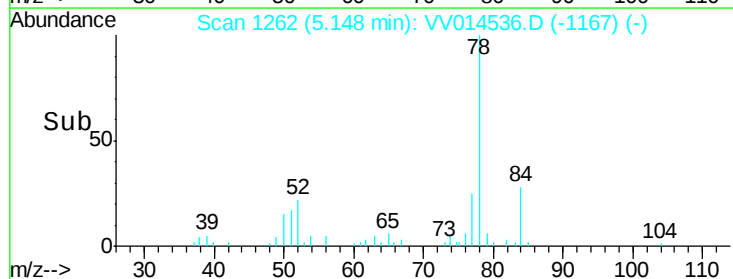
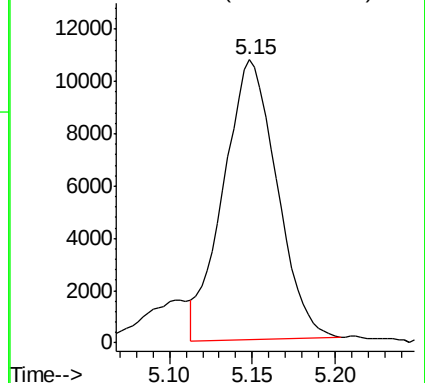
Lab File: VV014536.D

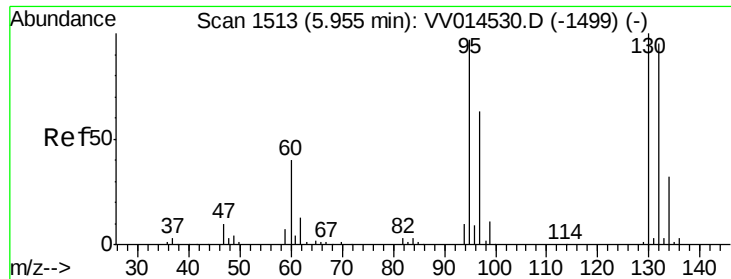
Acq: 07 Feb 2020 14:08

Tgt Ion: 78 Resp: 23967



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 2.420 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.01 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 95 Resp: 6166

Ion Ratio Lower Upper

95 100

97 69.9 45.1 83.7

132 105.3 67.7 125.7

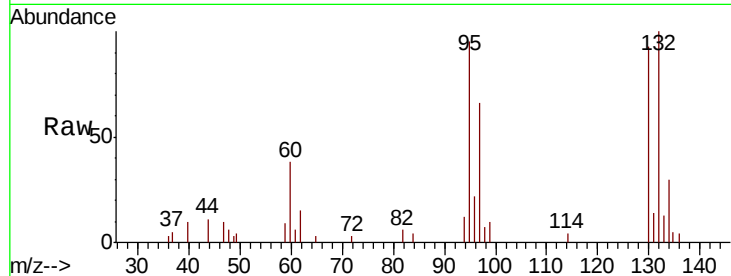
130 97.8 70.5 130.9

Manual Integrations

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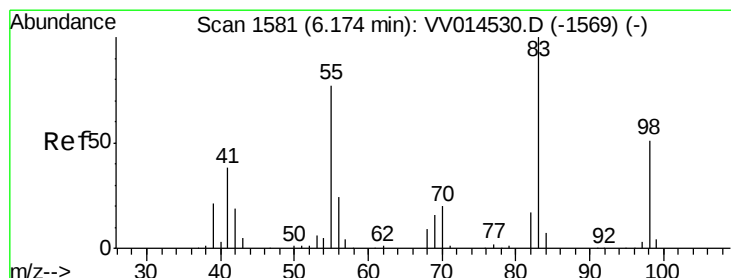
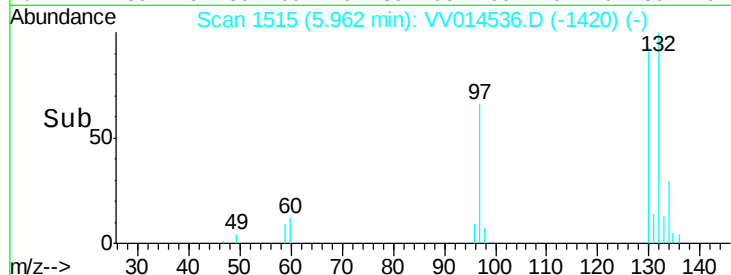
Abundance Ion 95.00 (94.70 to 95.70): VV014530.D (-1499) (-)

Ion 97.00 (96.70 to 97.70): VV014530.D (-1499) (-)

Ion 132.00 (131.70 to 132.70): VV014530.D (-1499) (-)

Ion 130.00 (129.70 to 130.70): VV014530.D (-1499) (-)

Time-->



#35

Methylcyclohexane

Concen: 2.321 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

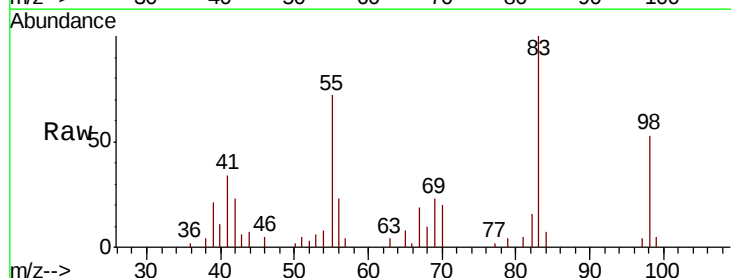
Tgt Ion: 83 Resp: 9663

Ion Ratio Lower Upper

83 100

55 81.2 60.7 91.1

98 51.3 39.4 59.0

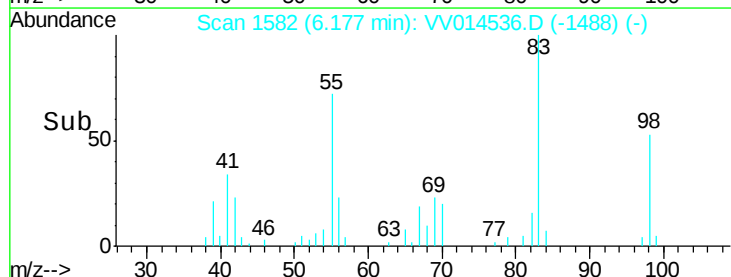


Abundance Ion 83.00 (82.70 to 83.70): VV014530.D (-1569) (-)

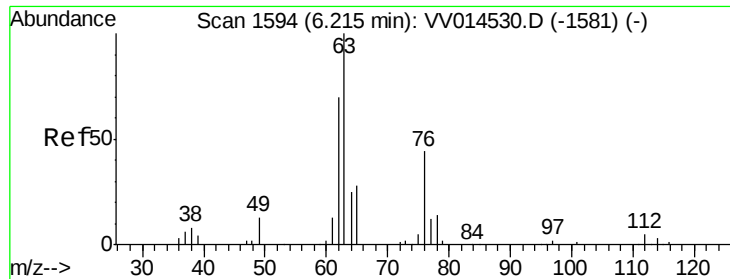
Ion 55.00 (54.70 to 55.70): VV014530.D (-1569) (-)

Ion 98.00 (97.70 to 98.70): VV014530.D (-1569) (-)

Time-->



Time-->



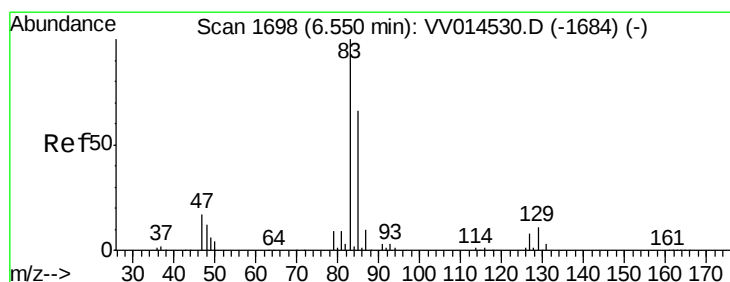
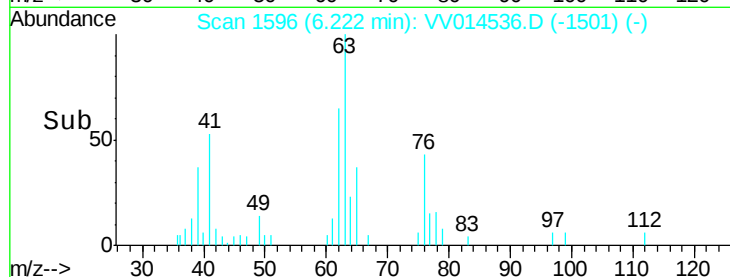
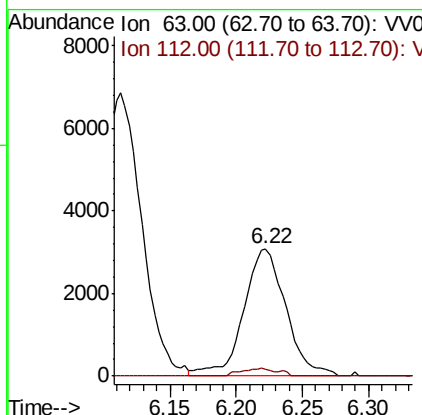
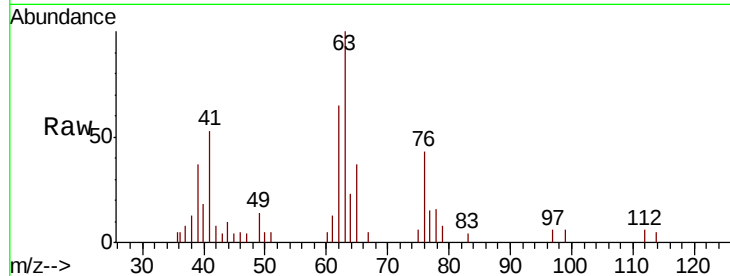
#37
 1,2-Dichloropropane
 Concen: 2.802 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.01 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion: 63 Resp: 6859
 Ion Ratio Lower Upper
 63 100
 112 2.1 3.7 5.5#

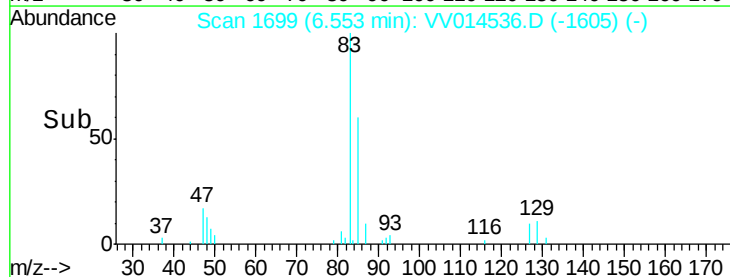
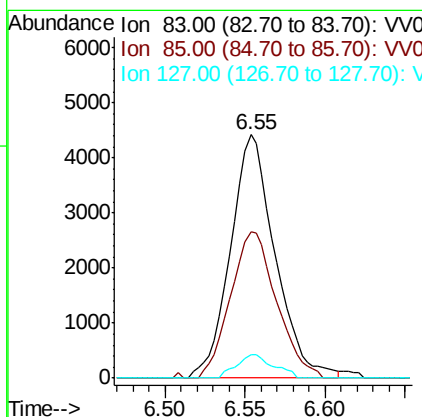
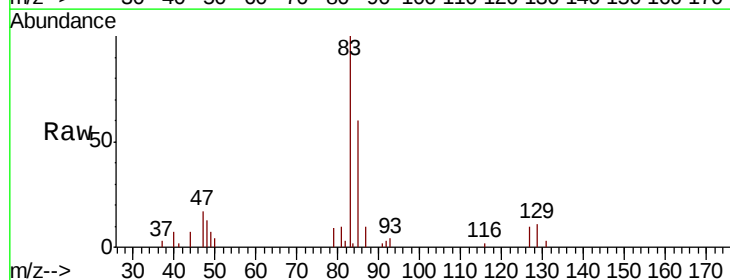
Manual Integrations
 APPROVED

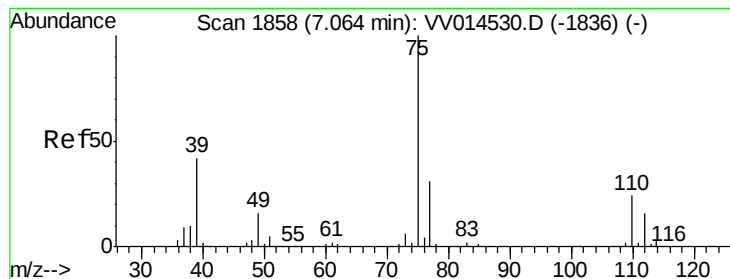
MMDadoda
 2/10/2020 11:56:35 AM



#38
 Bromodichloromethane
 Concen: 2.563 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Tgt Ion: 83 Resp: 8421
 Ion Ratio Lower Upper
 83 100
 85 60.1 44.4 82.4
 127 9.8 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 2.384 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.01 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 75 Resp: 9737

Ion Ratio Lower Upper

75 100

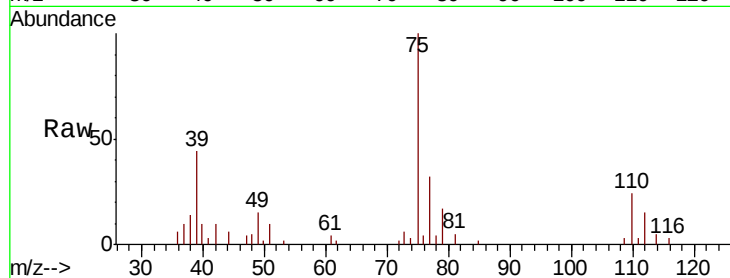
77 32.1 22.7 42.1

Manual Integrations

APPROVED

MMDadoda

2/10/2020 11:56:35 AM



Abundance Ion 75.00 (74.70 to 75.70): VV014530.D (-1836) (-)

Ion 77.00 (76.70 to 77.70): VV014530.D (-1836) (-)

6000

5000

4000

3000

2000

1000

0

7.05

7.10

7.15

7.20

7.25

7.30

7.35

7.40

7.45

7.50

7.55

7.60

7.65

7.70

7.75

7.80

7.85

7.90

7.95

8.00

8.05

8.10

8.15

8.20

8.25

8.30

8.35

8.40

8.45

8.50

8.55

8.60

8.65

8.70

8.75

8.80

8.85

8.90

8.95

9.00

9.05

9.10

9.15

9.20

9.25

9.30

9.35

9.40

9.45

9.50

9.55

9.60

9.65

9.70

9.75

9.80

9.85

9.90

9.95

10.00

10.05

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

12.30

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

12.80

12.85

12.90

12.95

13.00

13.05

13.10

13.15

13.20

13.25

13.30

13.35

13.40

13.45

13.50

13.55

13.60

13.65

13.70

13.75

13.80

13.85

13.90

13.95

14.00

14.05

14.10

14.15

14.20

14.25

14.30

14.35

14.40

14.45

14.50

14.55

14.60

14.65

14.70

14.75

14.80

14.85

14.90

14.95

15.00

15.05

15.10

15.15

15.20

15.25

15.30

15.35

15.40

15.45

15.50

15.55

15.60

15.65

15.70

15.75

15.80

15.85

15.90

15.95

16.00

16.05

16.10

16.15

16.20

16.25

16.30

16.35

16.40

16.45

16.50

16.55

16.60

16.65

16.70

16.75

16.80

16.85

16.90

16.95

17.00

17.05

17.10

17.15

17.20

17.25

17.30

17.35

17.40

17.45

17.50

17.55

17.60

17.65

17.70

17.75

17.80

17.85

17.90

17.95

18.00

18.05

18.10

18.15

18.20

18.25

18.30

18.35

18.40

18.45

18.50

18.55

18.60

18.65

18.70

18.75

18.80

18.85

18.90

18.95

19.00

19.05

19.10

19.15

19.20

19.25

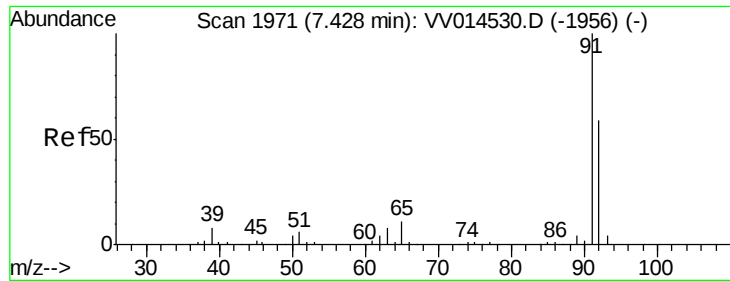
19.30

19.35

19.40

19.45

19.50



#42

Toluene

Concen: 2.641 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 27210

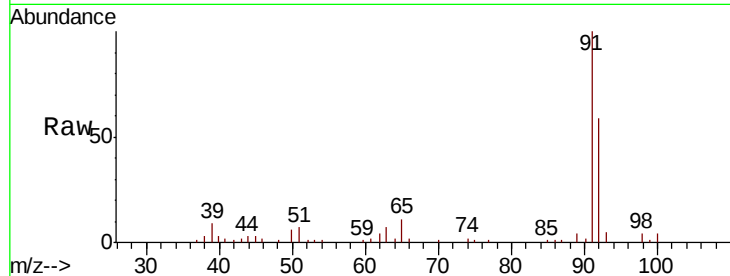
Ion Ratio Lower Upper

91 100

92 59.2 41.6 77.2

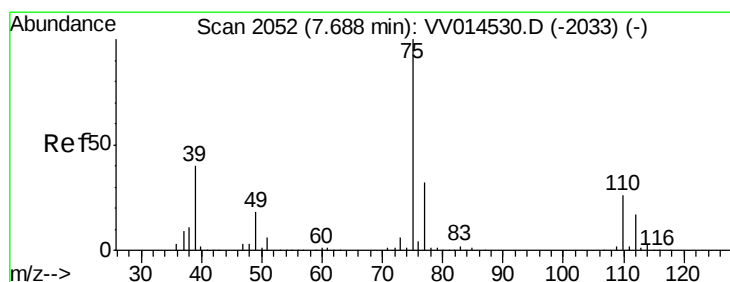
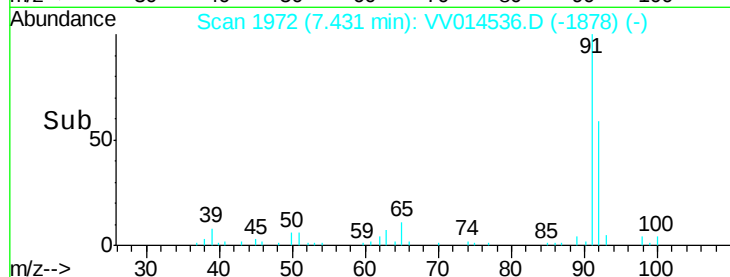
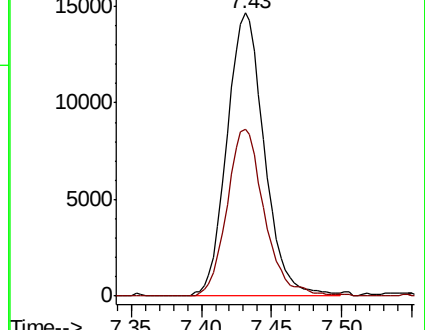
Manual Integrations
APPROVED

MMDadoda
2/10/2020 11:56:35 AM



Abundance Ion 91.00 (90.70 to 91.70): VV014530.D (-1956) (-)

Ion 92.00 (91.70 to 92.70): VV014530.D (-1956) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.519 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VV014536.D

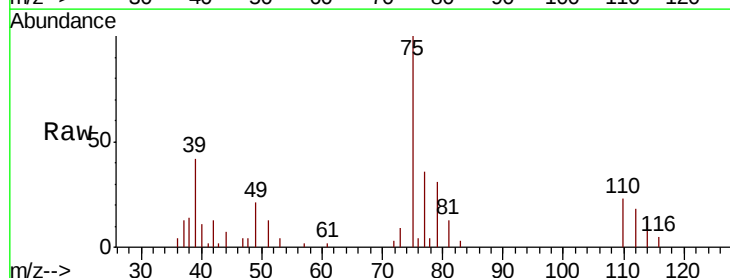
Acq: 07 Feb 2020 14:08

Tgt Ion: 75 Resp: 9223

Ion Ratio Lower Upper

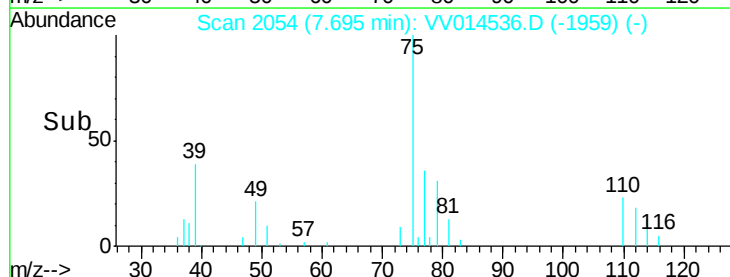
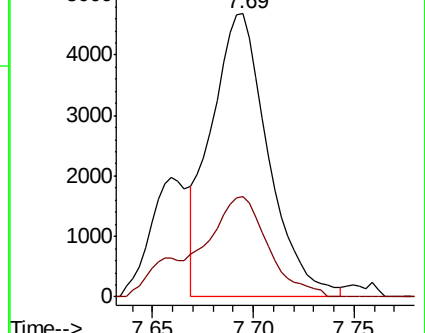
75 100

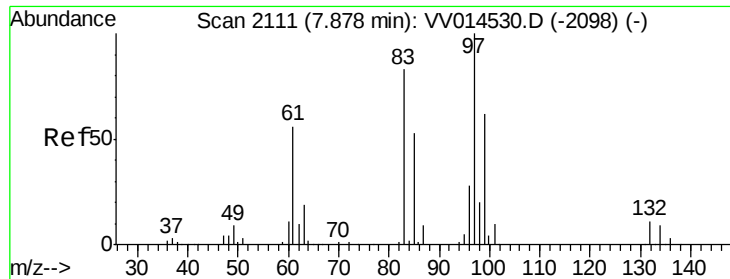
77 35.6 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV014530.D (-2033) (-)

Ion 77.00 (76.70 to 77.70): VV014530.D (-2033) (-)





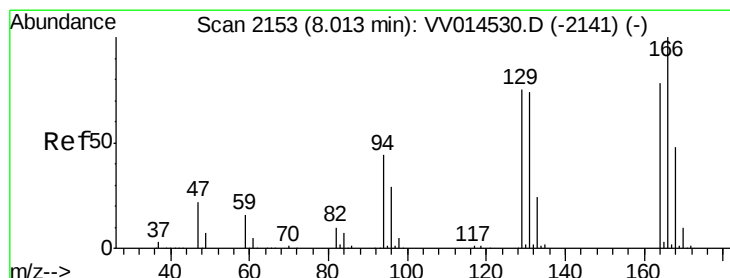
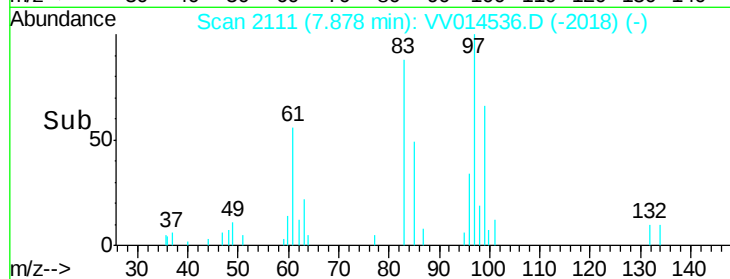
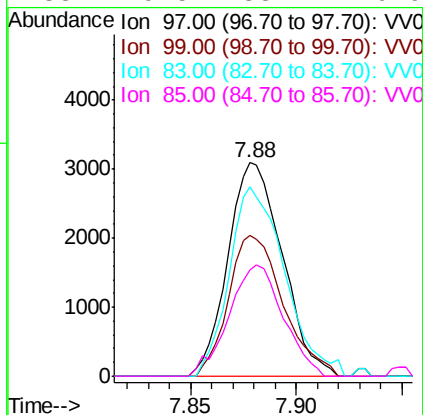
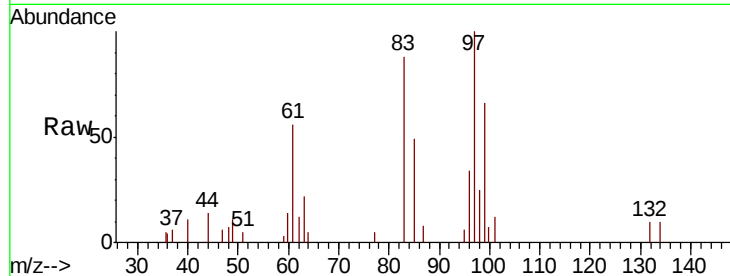
#45
 1,1,2-Trichloroethane
 Concen: 2.361 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion:	97	Resp:	5545
Ion	Ratio	Lower	Upper
97	100		
99	66.0	44.5	82.7
83	88.5	60.1	111.5
85	49.5	38.1	70.9

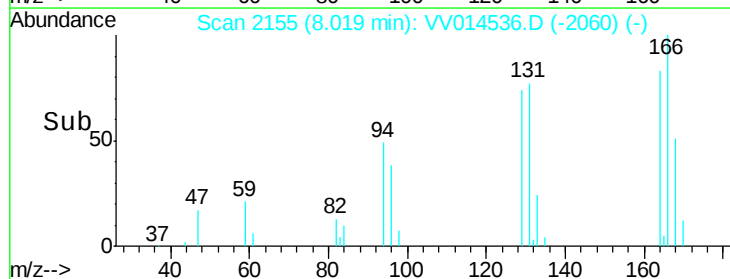
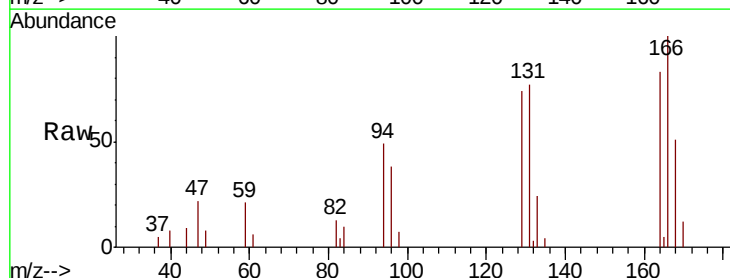
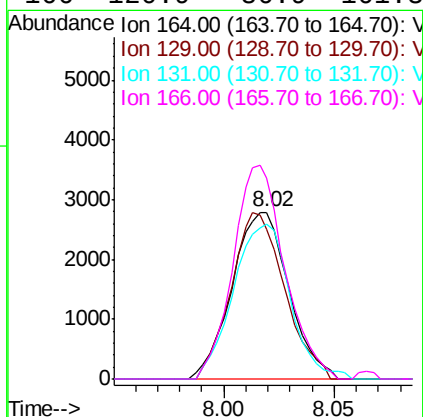
Manual Integrations
 APPROVED

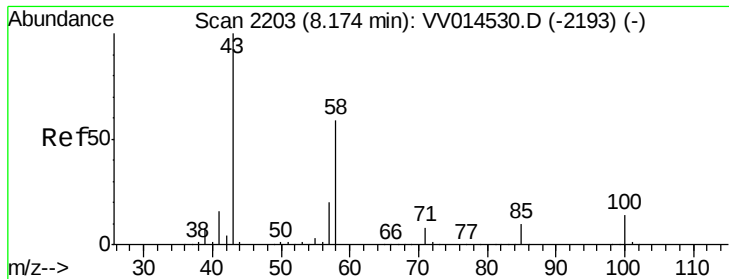
MMDadoda
 2/10/2020 11:56:35 AM



#46
 Tetrachloroethene
 Concen: 2.568 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.01 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Tgt Ion:	164	Resp:	4990
Ion	Ratio	Lower	Upper
164	100		
129	89.8	68.0	126.4
131	92.8	63.4	117.8
166	120.9	86.9	161.3





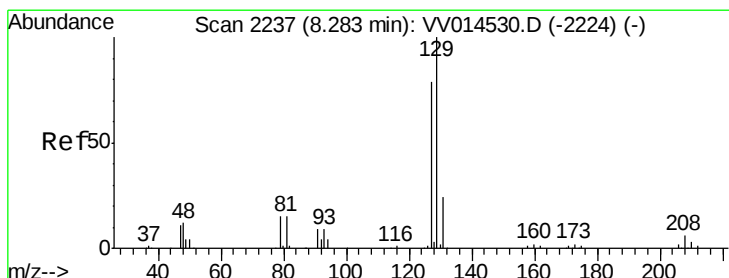
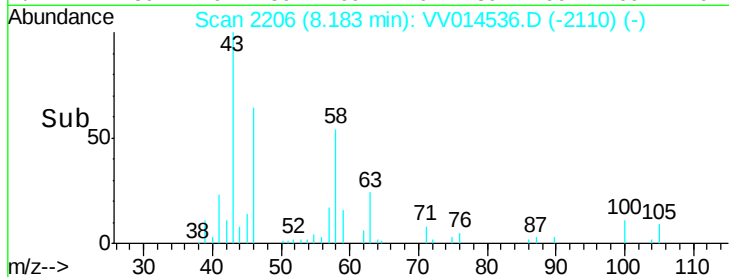
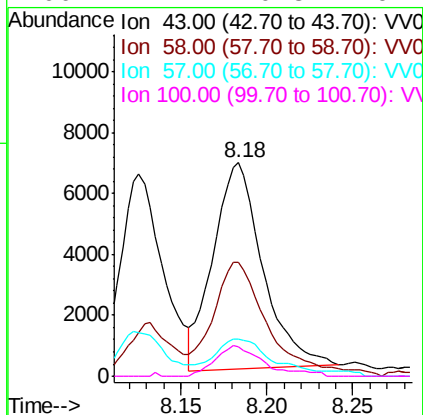
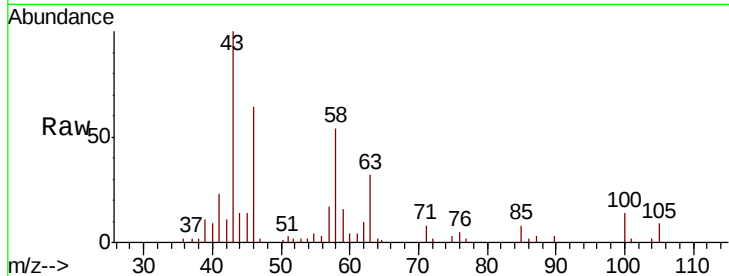
#48
2-Hexanone
Concen: 5.606 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.01 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	61.4	45.5	68.3	
57	10.9	15.8	23.6	
100	14.1	10.8	16.2	

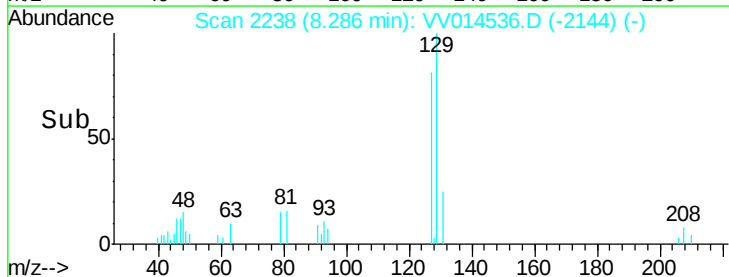
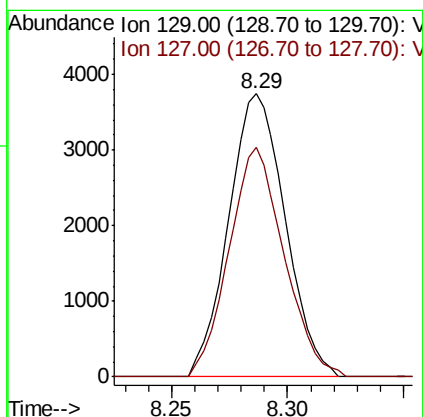
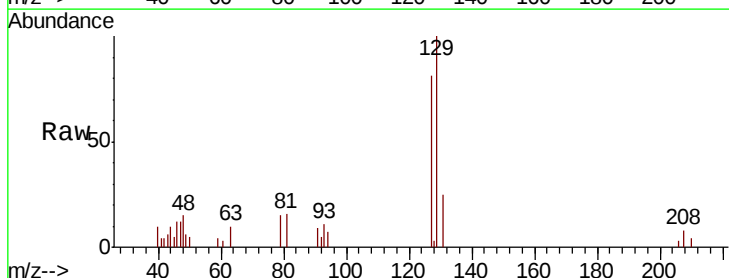
Manual Integrations
APPROVED

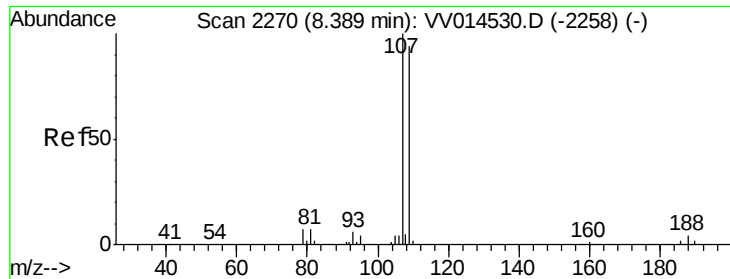
MMDadoda
2/10/2020 11:56:35 AM



#49
Dibromochloromethane
Concen: 2.392 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	83.9	54.1	100.5	





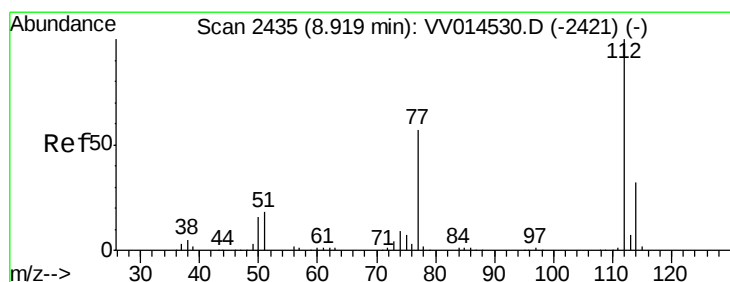
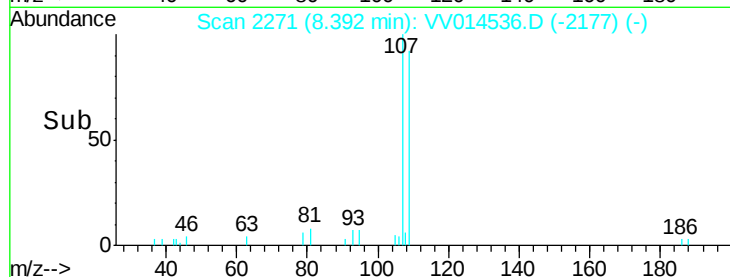
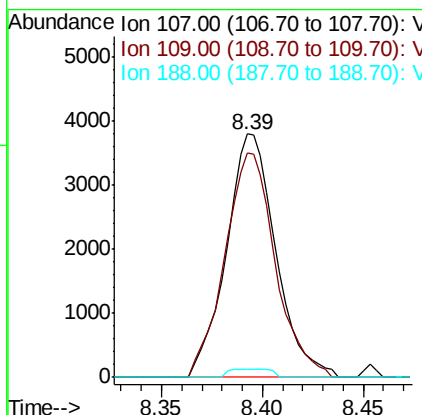
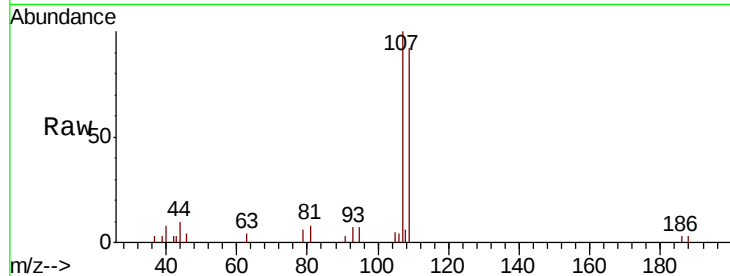
#50
1,2-Dibromoethane
Concen: 2.559 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ratio	Resp	Lower	Upper
107	100	6509		
109	92.4	65.2	121.2	
188	3.2	2.6	4.0	

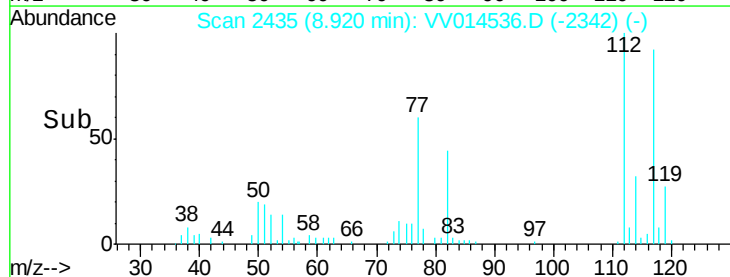
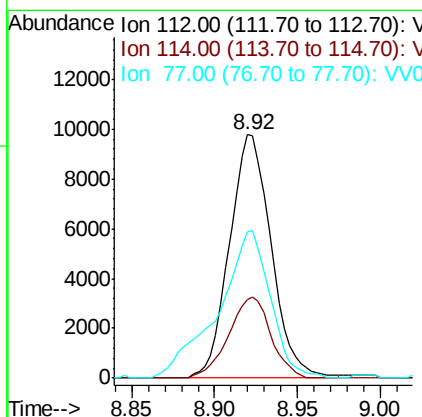
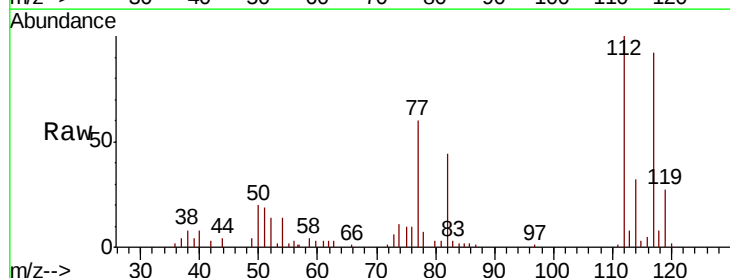
Manual Integrations
APPROVED

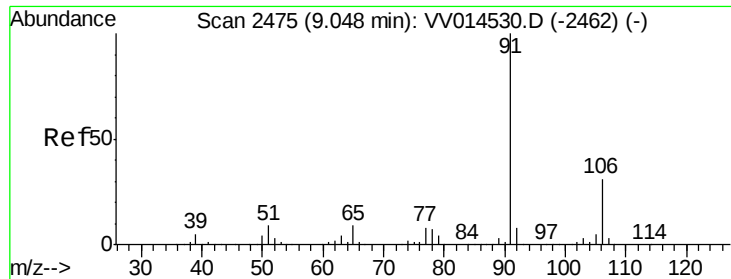
MMDadoda
2/10/2020 11:56:35 AM



#51
Chlorobenzene
Concen: 2.544 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	17123		
114	32.2	22.3	41.5	
77	60.2	47.3	70.9	





#52

Ethylbenzene

Concen: 2.485 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 91 Resp: 28722

Ion Ratio Lower Upper

91 100

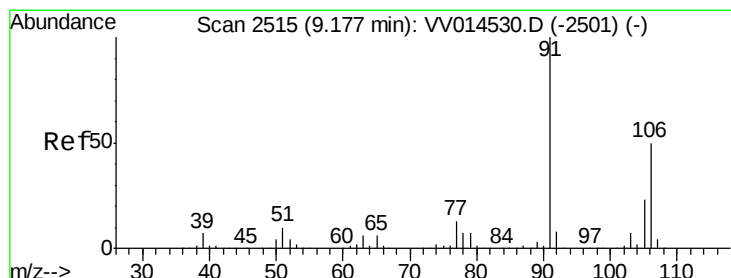
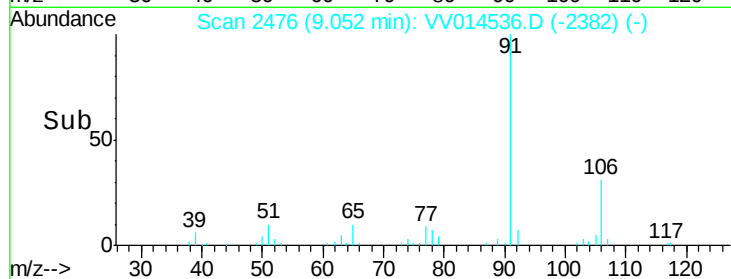
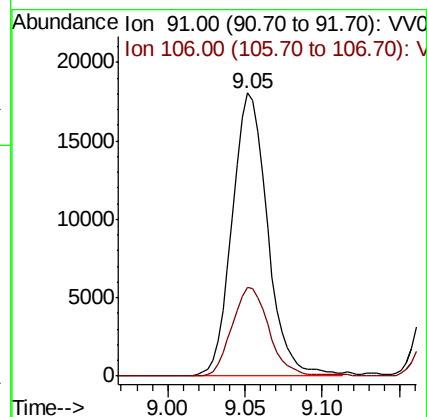
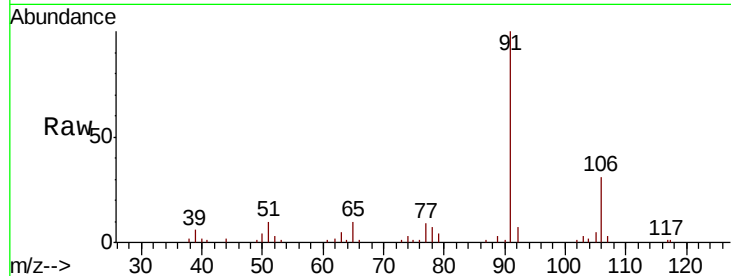
106 31.3 21.5 39.9

Manual Integrations

APPROVED

MMDadoda

2/10/2020 11:56:35 AM



#53

m,p-Xylene

Concen: 2.526 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014536.D

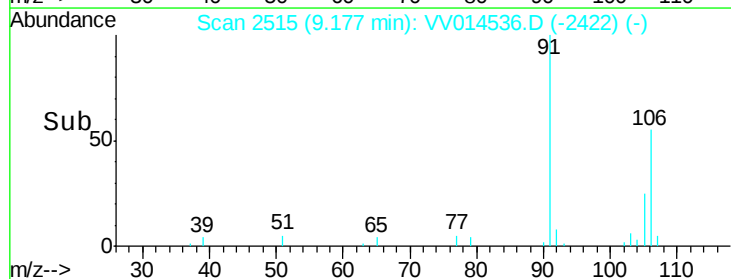
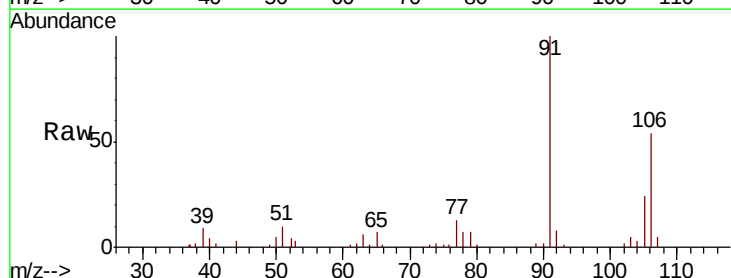
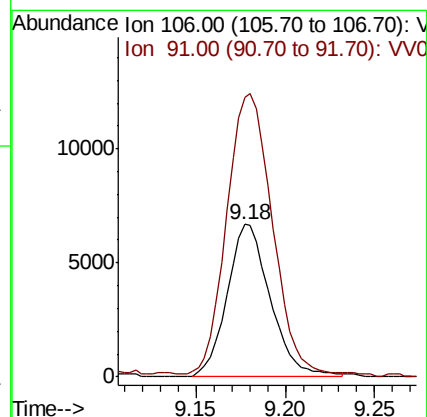
Acq: 07 Feb 2020 14:08

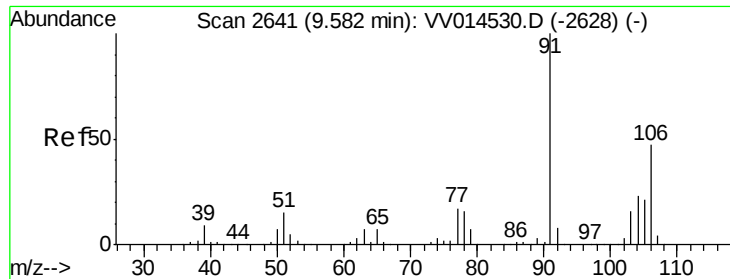
Tgt Ion: 106 Resp: 11246

Ion Ratio Lower Upper

106 100

91 183.7 141.4 262.6





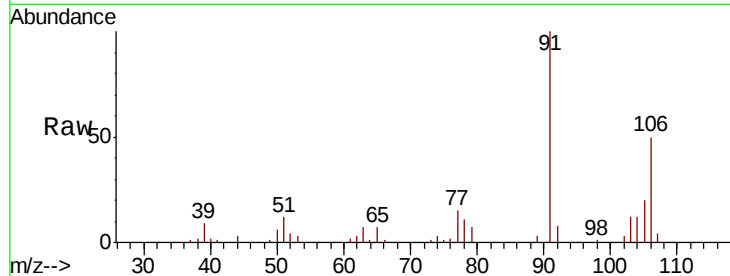
#54
o-Xylene
Concen: 2.541 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Instrument :
MSVOA_V
ClientSampled :
MDL04

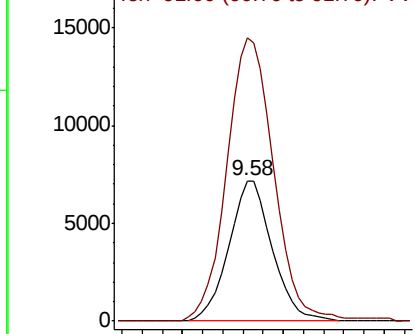
Tot Ion:106 Resp: 10826
Ion Ratio Lower Upper
106 100
91 201.7 149.4 277.4

Manual Integrations
APPROVED

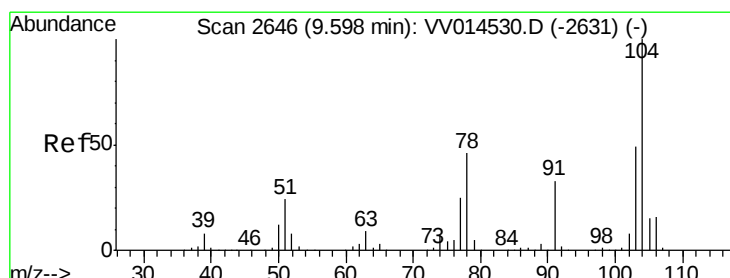
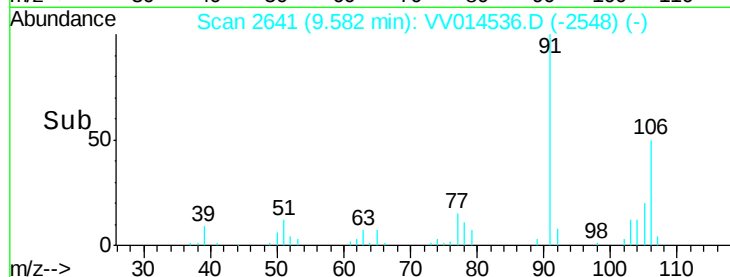
MMDadoda
2/10/2020 11:56:35 AM



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

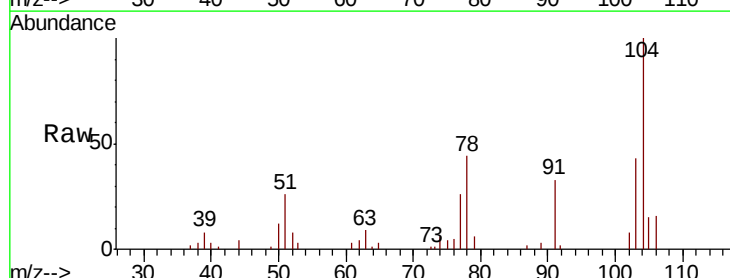


Time-->

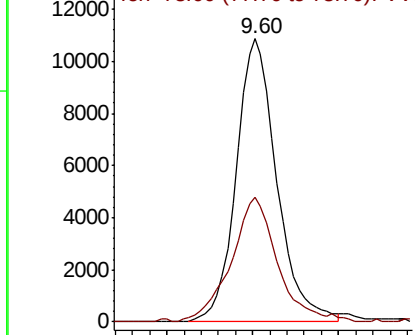


#55
Styrene
Concen: 2.454 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

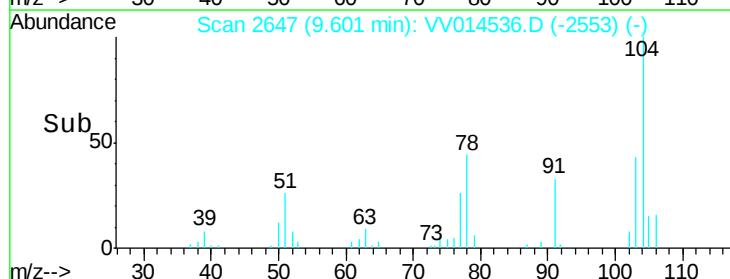
Tgt Ion:104 Resp: 17866
Ion Ratio Lower Upper
104 100
78 43.8 31.6 58.8

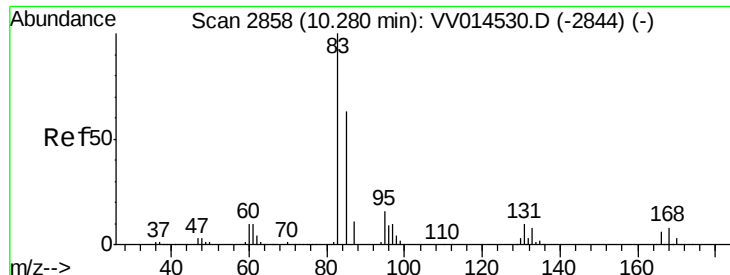


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0



Time-->





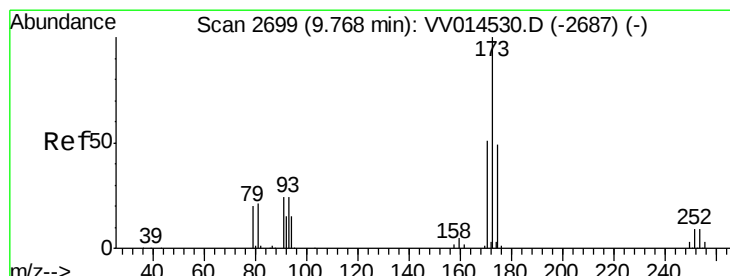
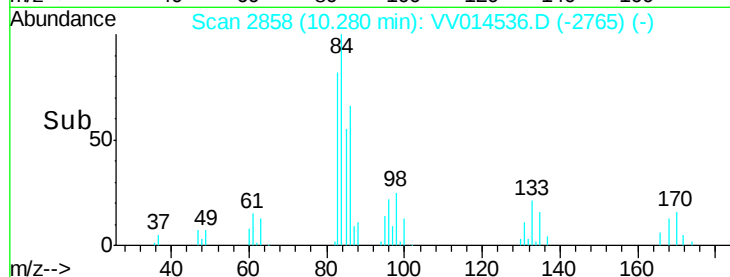
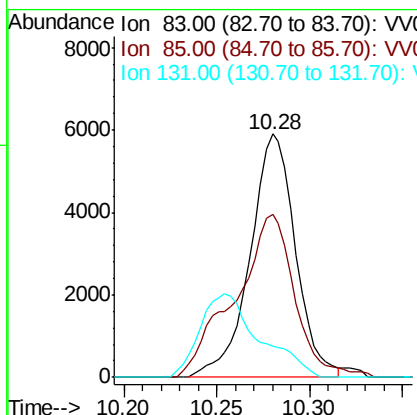
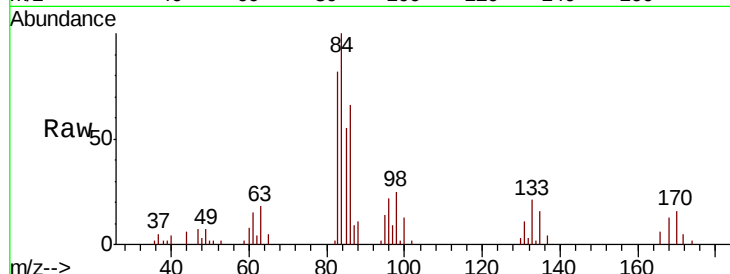
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.720 ug/L
 RT: 10.28 min Scan# 2858
 Delta R.T. 0.00 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
83	100		
85	66.8	45.2	84.0
131	12.9	7.8	11.8#

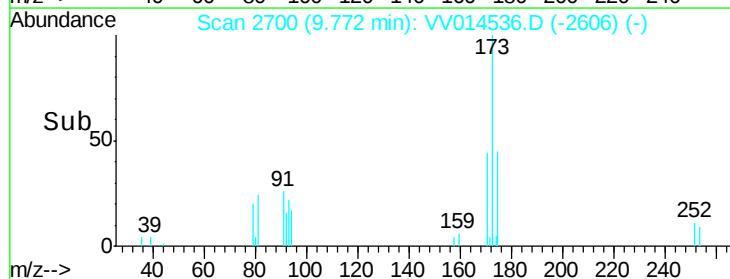
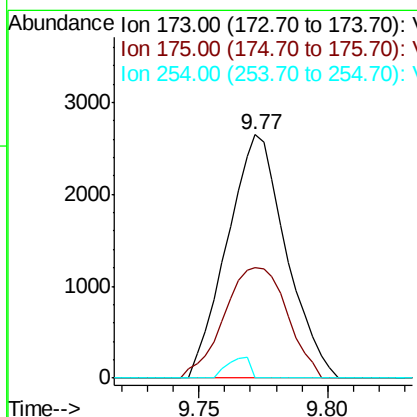
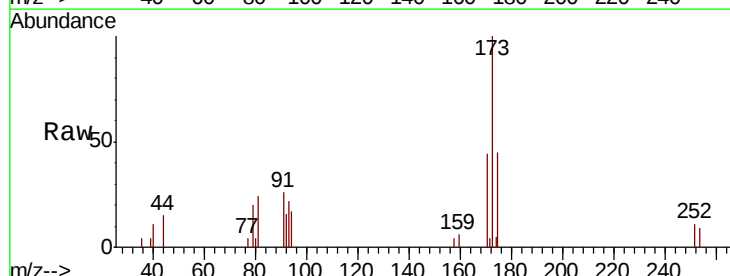
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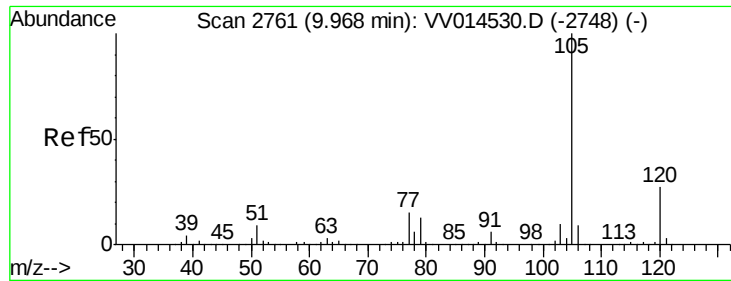
MMDadoda
 2/10/2020 11:56:35 AM



#59
 Bromoform
 Concen: 2.290 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.6	37.8	56.8
254	3.3	7.0	10.6#





#60

Isopropylbenzene

Concen: 2.475 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

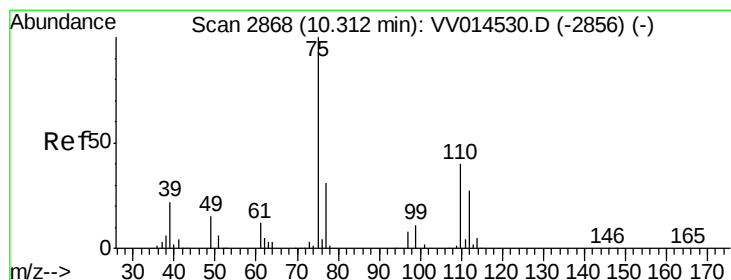
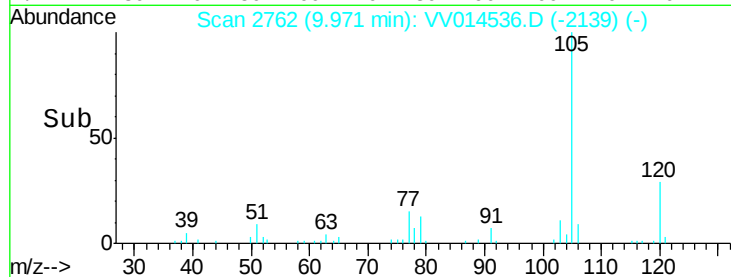
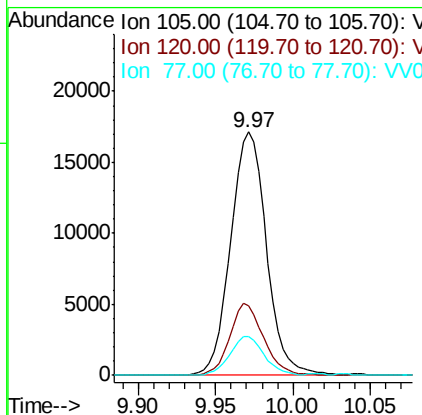
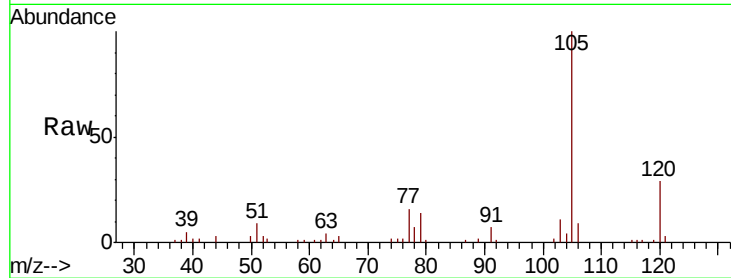
ClientSampled :

MDL04

Tot Ion:	105	Resp:	27485
Ion Ratio	Lower	Upper	
105	100		
120	27.8	21.5	32.3
77	15.4	12.2	18.4

Manual Integrations
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#61

1,2,3-Trichloropropane

Concen: 2.613 ug/L

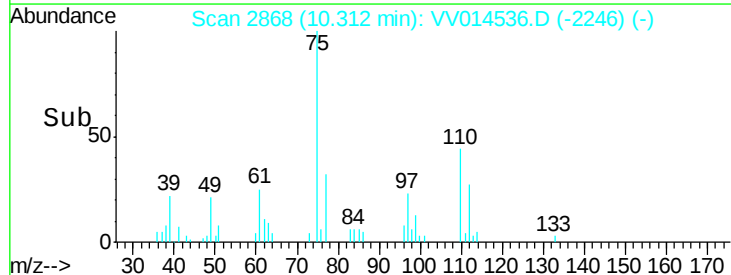
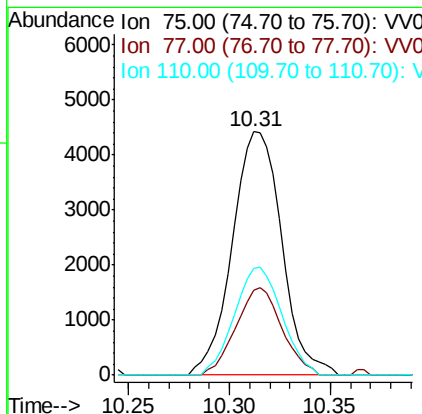
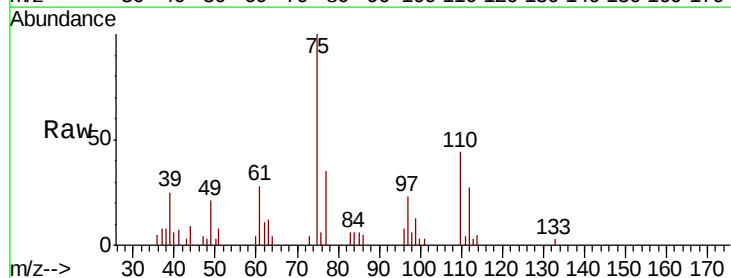
RT: 10.31 min Scan# 2868

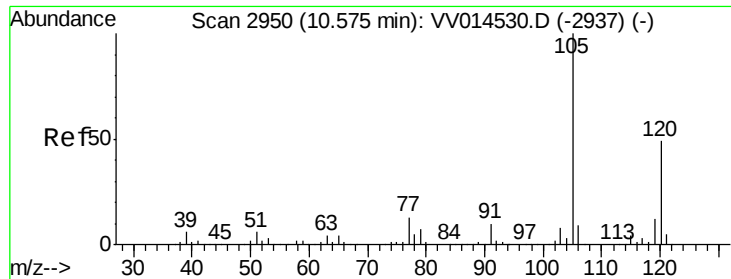
Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Tgt Ion:	75	Resp:	7598
Ion Ratio	Lower	Upper	
75	100		
77	33.2	25.8	38.8
110	42.4	32.4	48.6





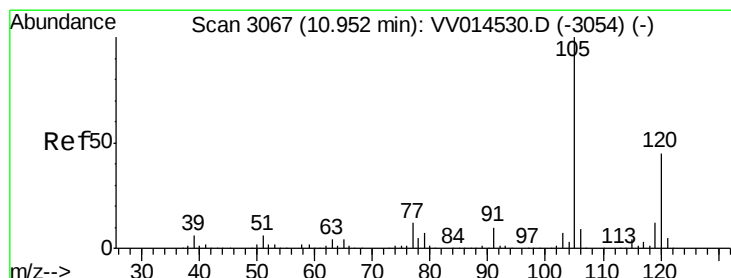
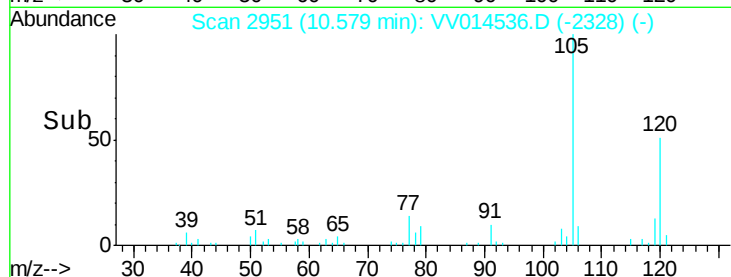
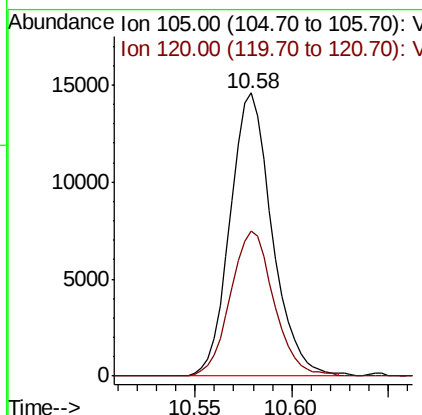
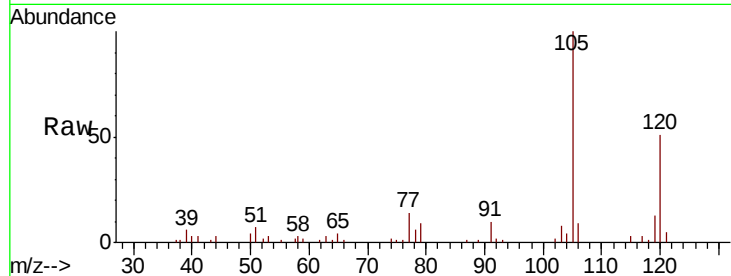
#62
 1,3,5-Trimethylbenzene
 Concen: 2.316 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion:105 Resp: 22020
 Ion Ratio Lower Upper
 105 100
 120 52.9 39.0 58.6

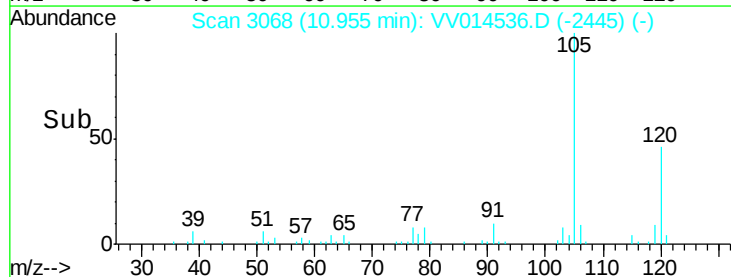
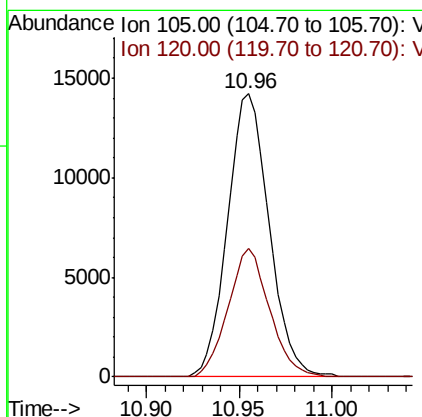
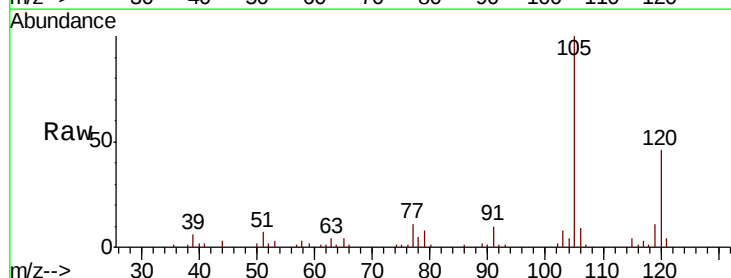
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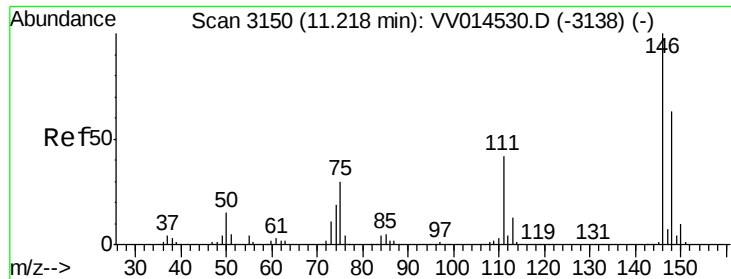
MMDadoda
 2/10/2020 11:56:35 AM



#63
 1,2,4-Trimethylbenzene
 Concen: 2.367 ug/L
 RT: 10.96 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Tgt Ion:105 Resp: 22189
 Ion Ratio Lower Upper
 105 100
 120 44.9 36.2 54.4





#64

1,3-Dichlorobenzene

Concen: 2.640 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion:146 Resp: 13828

Ion Ratio Lower Upper

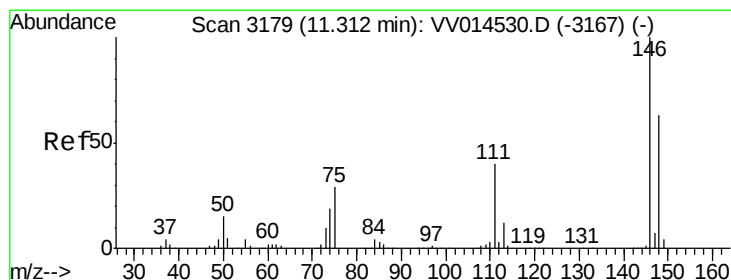
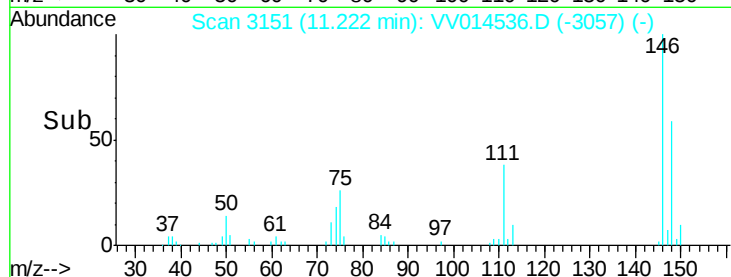
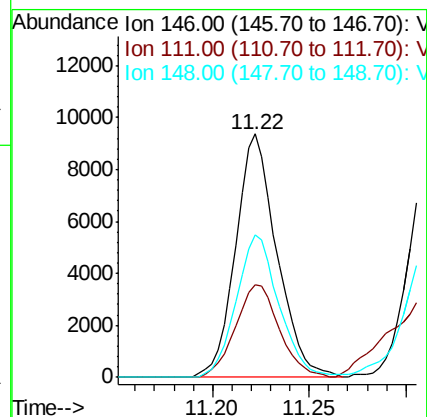
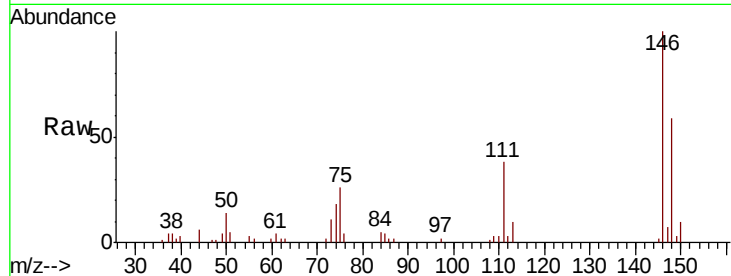
146 100

111 38.2 28.9 53.7

148 58.6 44.4 82.5

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#65

1,4-Dichlorobenzene

Concen: 2.650 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

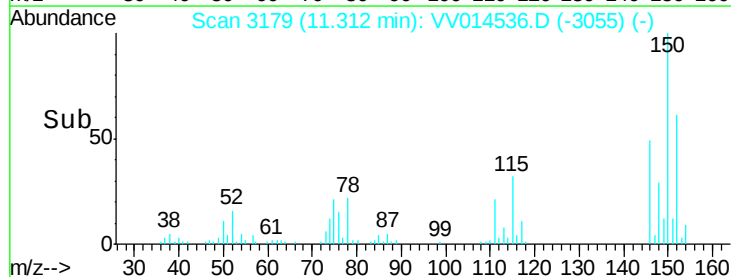
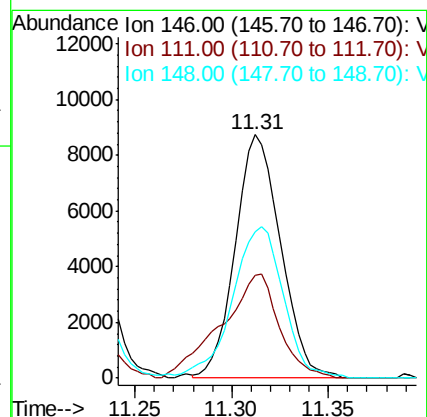
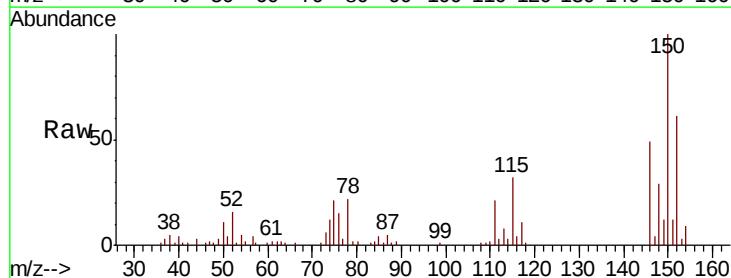
Tgt Ion:146 Resp: 14292

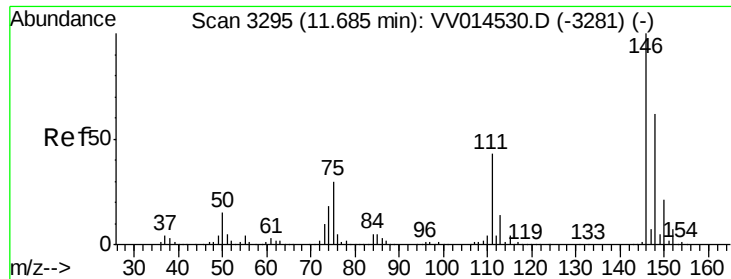
Ion Ratio Lower Upper

146 100

111 42.4 28.1 52.3

148 60.2 44.4 82.4





#67

1,2-Dichlorobenzene

Concen: 2.700 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Instrument :

MSVOA_V

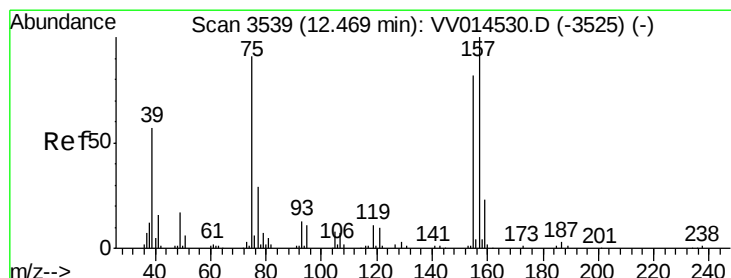
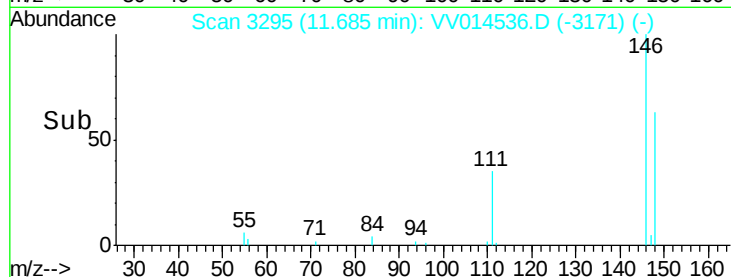
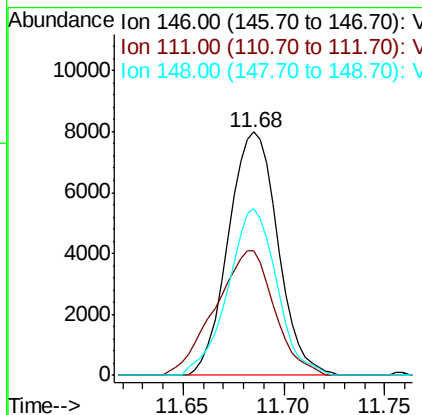
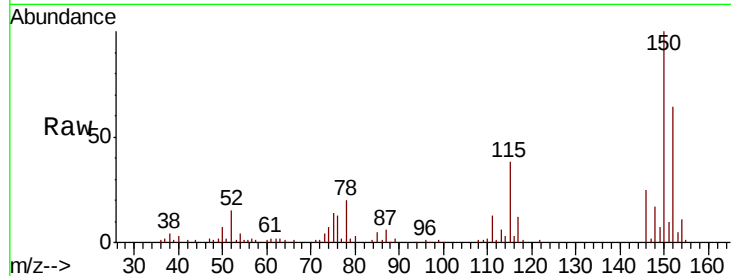
ClientSampled :

MDL04

Tot Ion:	146	Resp:	13714
Ion	Ratio	Lower	Upper
146	100		
111	51.1	34.6	51.8
148	68.4	50.2	75.4

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#68

1,2-Dibromo-3-chloropropane

Concen: 2.674 ug/L

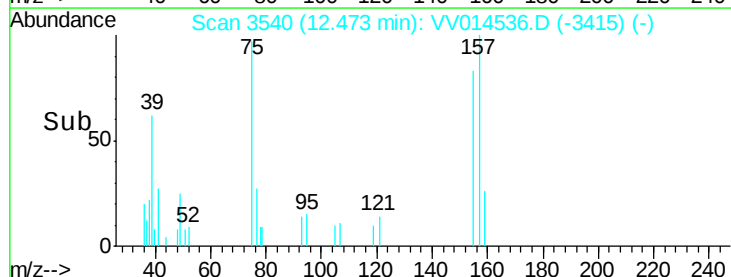
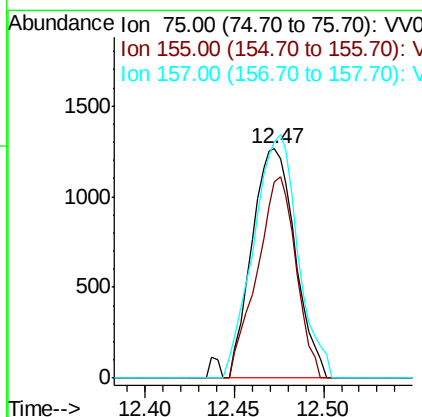
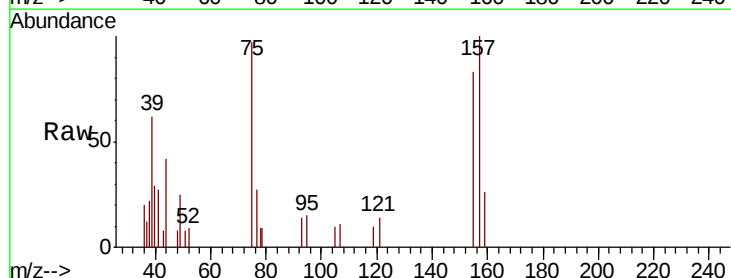
RT: 12.47 min Scan# 3540

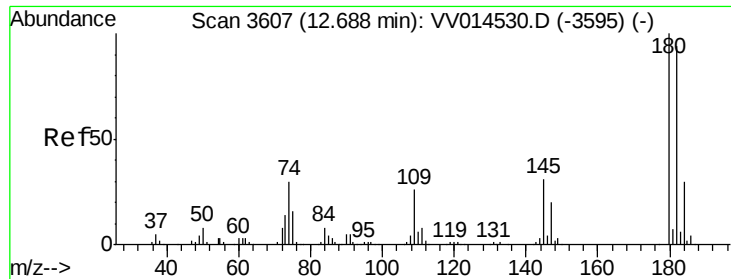
Delta R.T. 0.00 min

Lab File: VV014536.D

Acq: 07 Feb 2020 14:08

Tgt Ion:	75	Resp:	2178
Ion	Ratio	Lower	Upper
75	100		
155	85.6	68.3	102.5
157	102.7	87.1	130.7





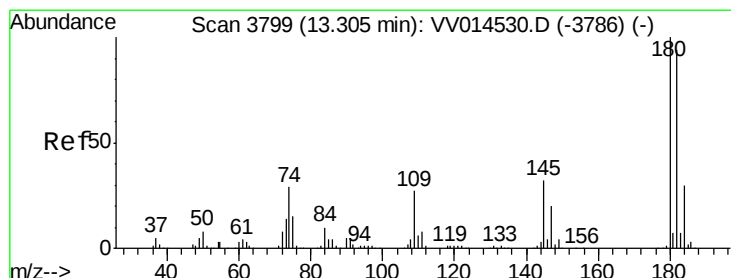
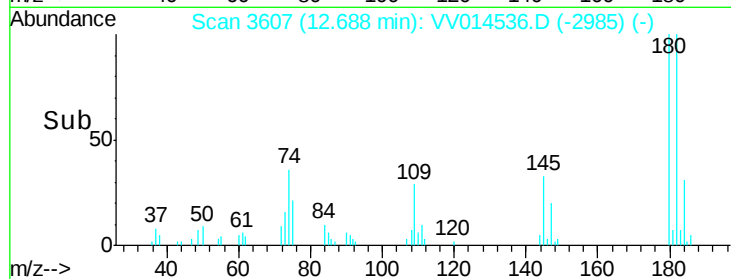
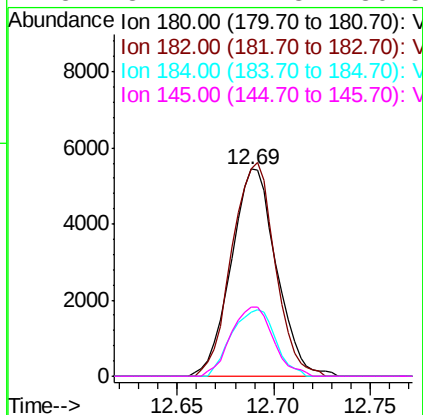
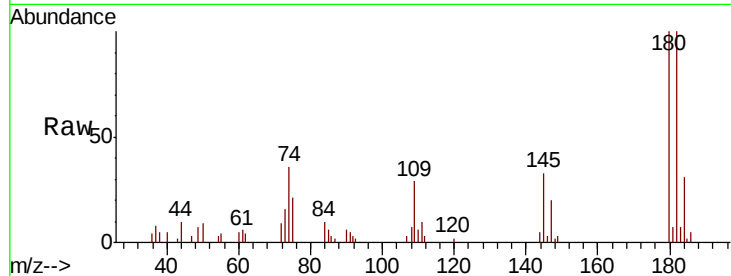
#69
 1,3,5-Trichlorobenzene
 Concen: 2.401 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.6	75.0	112.4
184	31.1	24.2	36.2
145	31.4	24.3	36.5

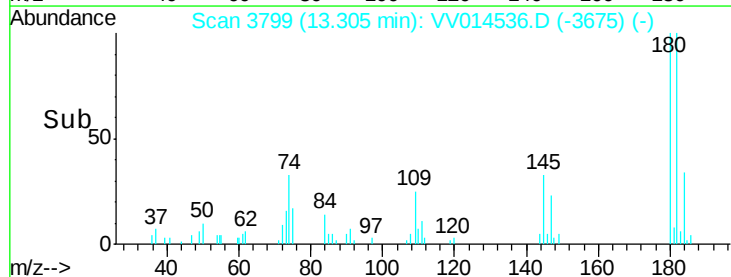
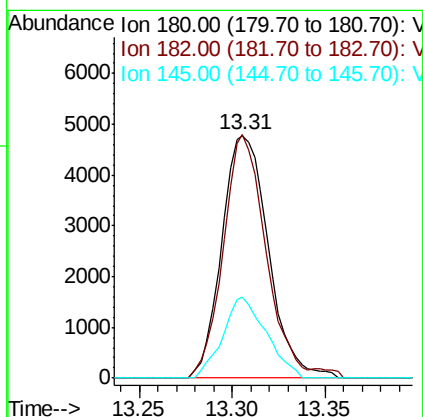
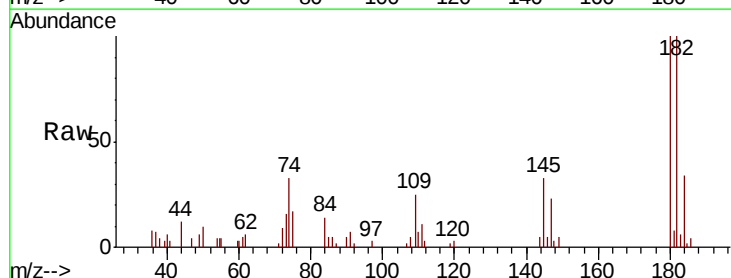
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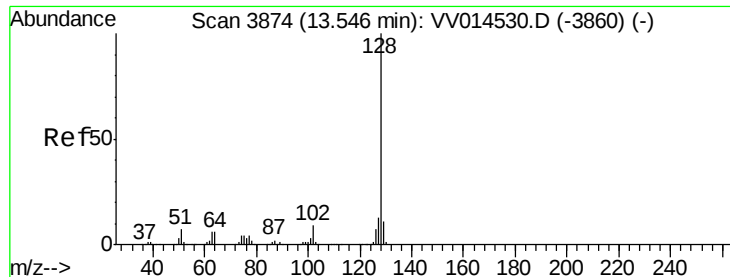
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#70
 1,2,4-trichlorobenzene
 Concen: 2.455 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014536.D
 Acq: 07 Feb 2020 14:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.3	76.0	114.0
145	31.0	25.3	37.9





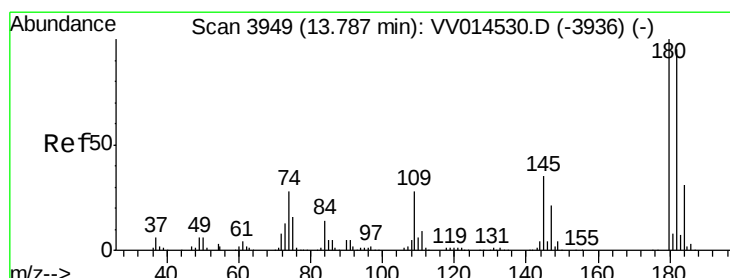
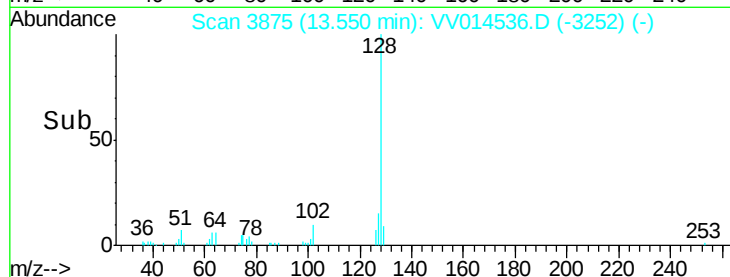
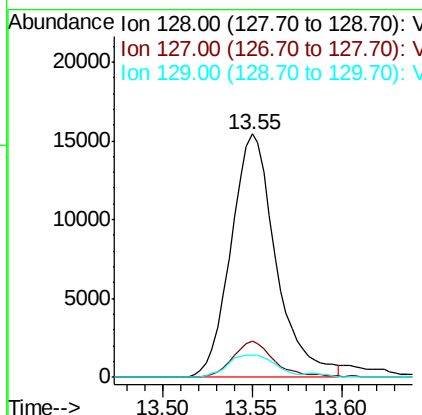
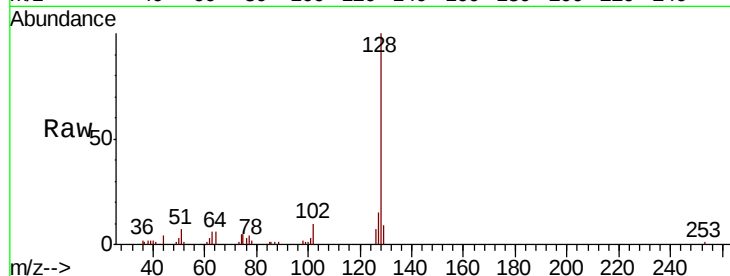
#71
Naphthalene
Concen: 2.432 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	9.6	8.7	13.1

Manual Integrations
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2/10/2020 11:56:35 AM



#72
1,2,3-Trichlorobenzene
Concen: 2.465 ug/L
RT: 13.79 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VV014536.D
Acq: 07 Feb 2020 14:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.2	112.8
145	31.1	27.1	40.7

