

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV020620\
 Data File : VV014519.D
 Acq On : 06 Feb 2020 15:12
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 2/7/2020 1:23:49 PM

Quant Time: Feb 07 01:51:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 07 01:37:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	423842	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	387378	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	194098	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	105651	45.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.94%
7) Chloroethane-d5	1.58	69	73115	46.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.32%
11) 1,1-Dichloroethene-d2	2.13	63	122806	35.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.36%
21) 2-Butanone-d5	3.92	46	154689	87.19	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.19%
24) Chloroform-d	4.39	84	236064	45.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.14%
26) 1,2-Dichloroethane-d4	5.07	65	148119	46.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.66%
32) Benzene-d6	5.09	84	511351	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.34%
36) 1,2-Dichloropropane-d6	6.11	67	156937	47.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.42%
41) Toluene-d8	7.35	98	468450	47.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.86%
43) trans-1,3-Dichloropropene-	7.66	79	79567	45.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.22%
47) 2-Hexanone-d5	8.13	63	120240	85.93	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.93%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	194772	45.60	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.20%
66) 1,2-Dichlorobenzene-d4	11.67	152	176472	47.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.82%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	8537	2.514	ug/L	98
3) Chloromethane	1.26	50	9049	2.632	ug/L	98
5) Vinyl chloride	1.33	62	6737	2.559	ug/L #	69
6) Bromomethane	1.53	94	2963	2.447	ug/L	95
8) Chloroethane	1.60	64	3332	2.547	ug/L	93
9) Trichlorofluoromethane	1.77	101	8907	2.511	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	5611	3.294	ug/L #	81
12) 1,1-Dichloroethene	2.14	96	4663	2.862	ug/L #	1
13) Acetone	2.18	43	10051	6.766	ug/L	97
14) Carbon disulfide	2.32	76	21470	2.714	ug/L	98
15) Methyl Acetate	2.46	43	6940	2.430	ug/L	99
16) Methylene chloride	2.54	84	9118	2.947	ug/L	97
17) trans-1,2-Dichloroethene	2.79	96	7635	2.660	ug/L	91
18) Methyl tert-butyl Ether	2.80	73	22444	2.469	ug/L	98
19) 1,1-Dichloroethane	3.23	63	12976	2.528	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	8182	2.533	ug/L	95
22) 2-Butanone	4.02	43	10166m	4.627	ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV020620\
 Data File : VV014519.D
 Acq On : 06 Feb 2020 15:12
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

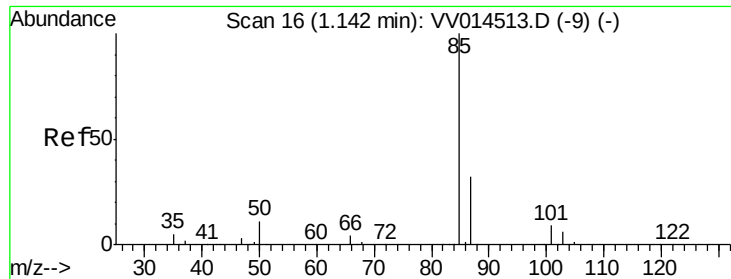
Manual Integrations
 APPROVED

MMDadoda
 2/7/2020 1:23:49 PM

Quant Time: Feb 07 01:51:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 07 01:37:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	3932	2.571	ug/L	86
25) Chloroform	4.42	83	17454	3.345	ug/L	93
27) 1,2-Dichloroethane	5.18	62	9831	2.528	ug/L	100
29) Cyclohexane	4.72	56	12342	2.591	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	11504	2.602	ug/L #	86
31) Carbon tetrachloride	4.87	117	9538	2.445	ug/L	99
33) Benzene	5.14	78	29201	2.564	ug/L	100
34) Trichloroethene	5.96	95	7806	2.586	ug/L	97
35) Methylcyclohexane	6.18	83	13497	2.736	ug/L	99
37) 1,2-Dichloropropane	6.22	63	7058	2.433	ug/L #	89
38) Bromodichloromethane	6.55	83	9260	2.379	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	11882	2.455	ug/L	94
40) 4-Methyl-2-pentanone	7.27	43	16811	4.485	ug/L	98
42) Toluene	7.43	91	31249	2.559	ug/L	95
44) trans-1,3-Dichloropropene	7.69	75	11184	2.578	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	6766	2.431	ug/L	96
46) Tetrachloroethene	8.01	164	5787	2.513	ug/L	96
48) 2-Hexanone	8.18	43	12754	4.420	ug/L	97
49) Dibromochloromethane	8.28	129	7558	2.405	ug/L	95
50) 1,2-Dibromoethane	8.39	107	7268	2.411	ug/L	98
51) Chlorobenzene	8.92	112	19918	2.497	ug/L	95
52) Ethylbenzene	9.05	91	34422	2.514	ug/L	97
53) m,p-Xylene	9.18	106	12758	2.419	ug/L	94
54) o-Xylene	9.58	106	12365	2.449	ug/L	91
55) Styrene	9.60	104	20915	2.424	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.28	83	11673	2.676	ug/L #	92
59) Bromoform	9.77	173	4641	2.144	ug/L #	92
60) Isopropylbenzene	9.97	105	33298	2.537	ug/L	97
61) 1,2,3-Trichloropropane	10.31	75	8685	2.527	ug/L	97
62) 1,3,5-Trimethylbenzene	10.58	105	27898	2.483	ug/L	99
63) 1,2,4-Trimethylbenzene	10.95	105	26607	2.402	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	15785	2.550	ug/L	98
65) 1,4-Dichlorobenzene	11.31	146	17332	2.719	ug/L	96
67) 1,2-Dichlorobenzene	11.68	146	16155	2.691	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.48	75	2056	2.136	ug/L	93
69) 1,3,5-Trichlorobenzene	12.69	180	11031	2.529	ug/L	97
70) 1,2,4-trichlorobenzene	13.31	180	9569	2.389	ug/L	97
71) Naphthalene	13.55	128	31605	2.403	ug/L	97
72) 1,2,3-Trichlorobenzene	13.79	180	9030	2.321	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 2.514 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 8537

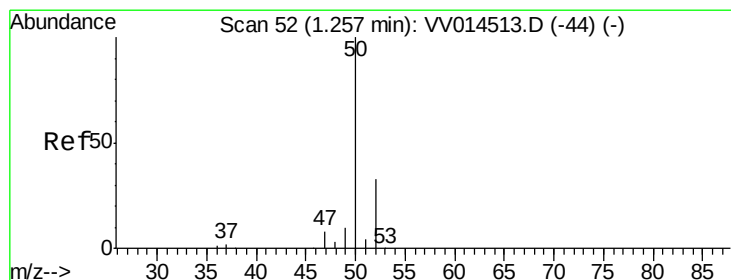
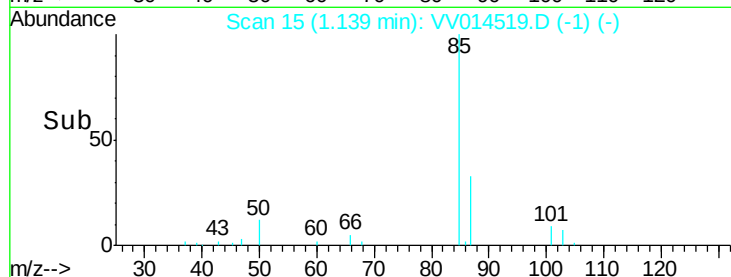
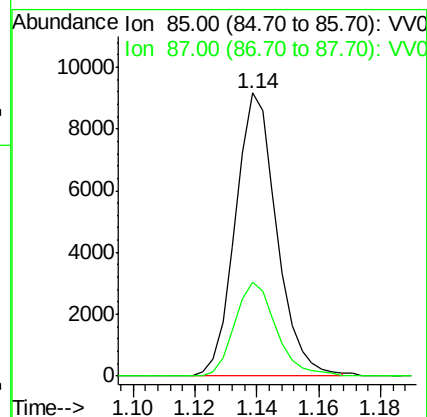
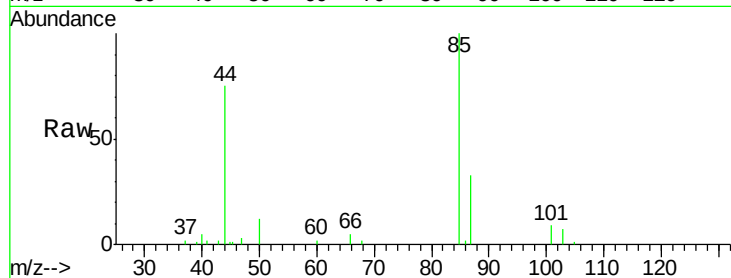
Ion Ratio Lower Upper

85 100

87 33.1 25.7 38.5

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:49 PM



#3

Chloromethane

Concen: 2.632 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014519.D

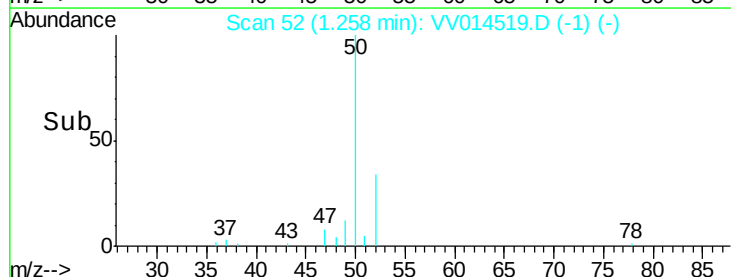
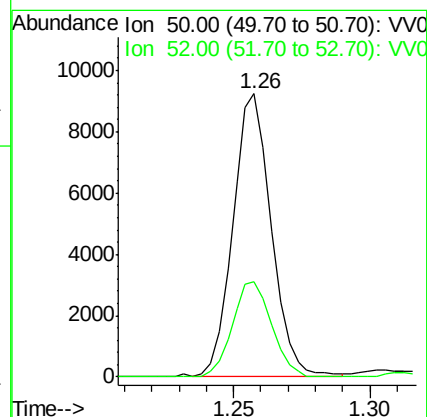
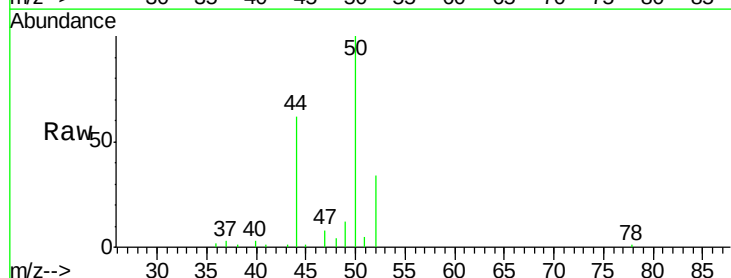
Acq: 06 Feb 2020 15:12

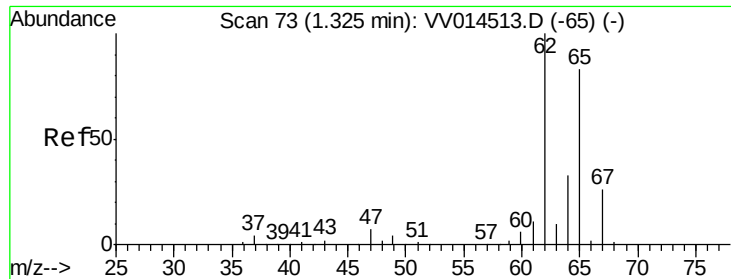
Tgt Ion: 50 Resp: 9049

Ion Ratio Lower Upper

50 100

52 33.8 22.9 42.5





#5

Vinyl chloride

Concen: 2.559 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 62 Resp: 6737

Ion Ratio Lower Upper

62 100

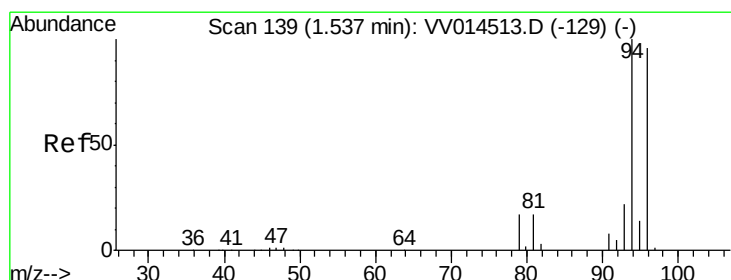
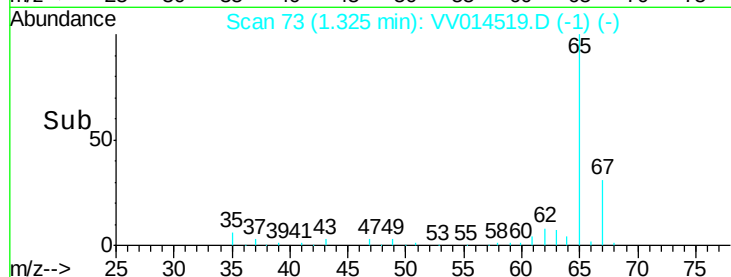
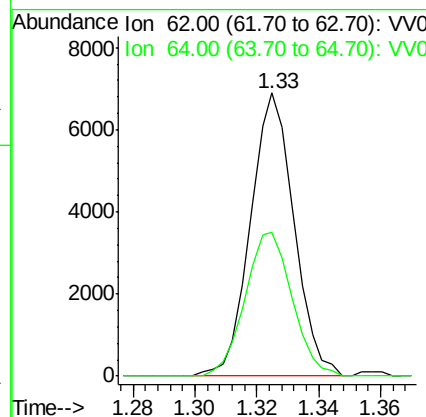
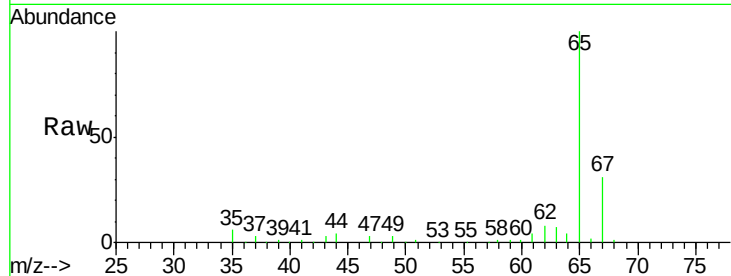
64 50.8 23.1 42.9#

Manual Integrations

APPROVED

MMDadoda

2/7/2020 1:23:49 PM



#6

Bromomethane

Concen: 2.447 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV014519.D

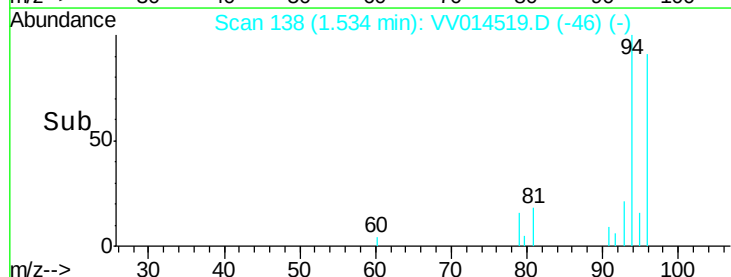
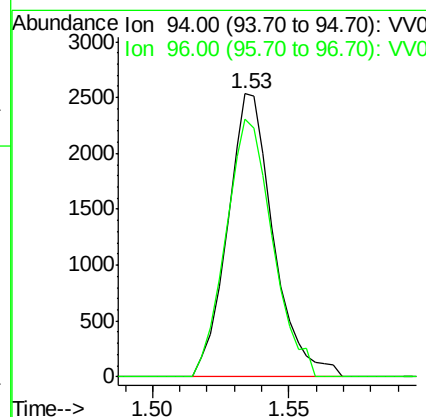
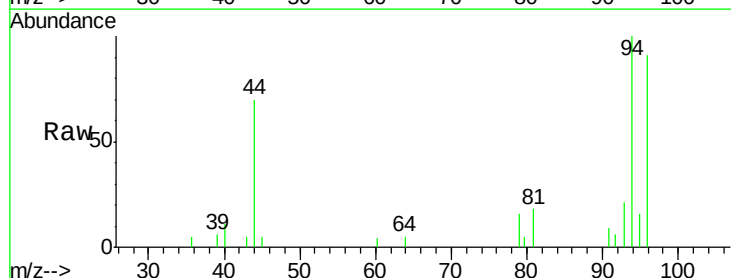
Acq: 06 Feb 2020 15:12

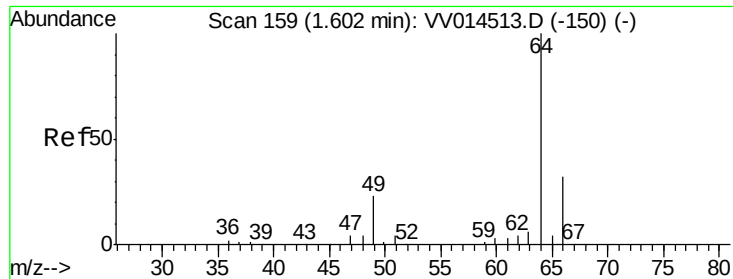
Tgt Ion: 94 Resp: 2963

Ion Ratio Lower Upper

94 100

96 90.9 67.3 124.9





#8

Chloroethane

Concen: 2.547 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 64 Resp: 3332

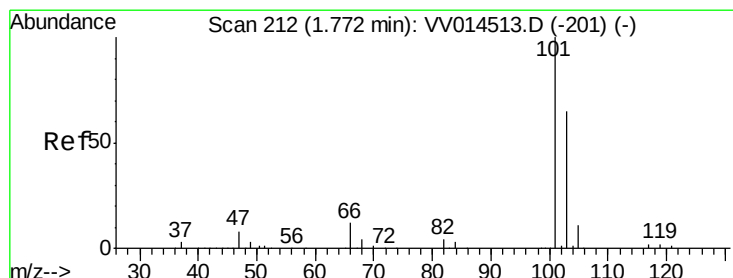
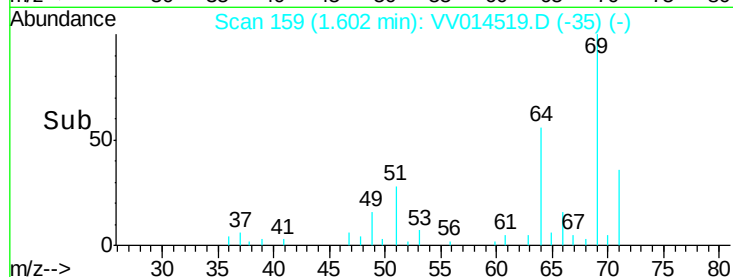
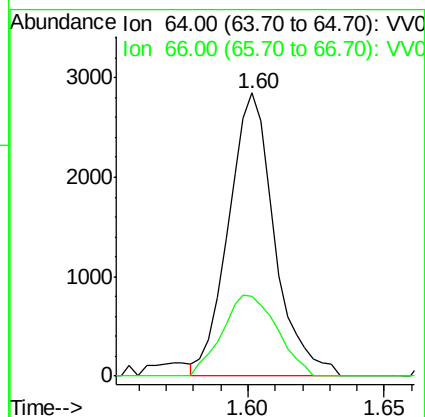
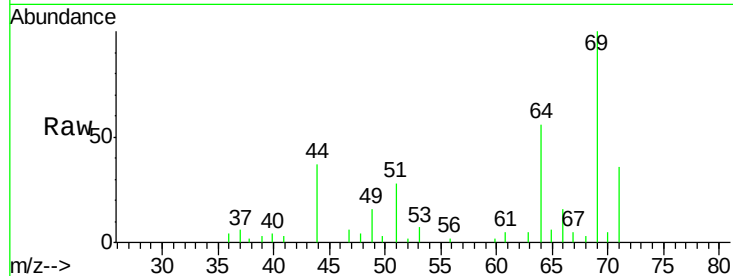
Ion Ratio Lower Upper

64 100

66 28.4 22.4 41.6

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:49 PM



#9

Trichlorofluoromethane

Concen: 2.511 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014519.D

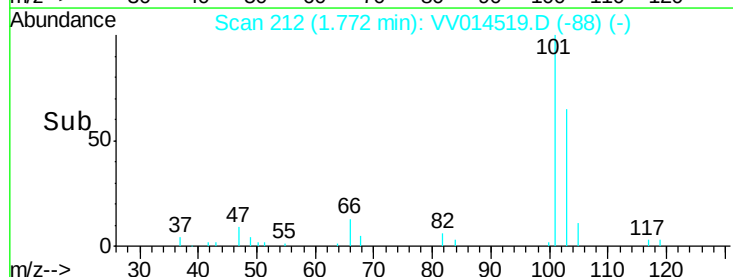
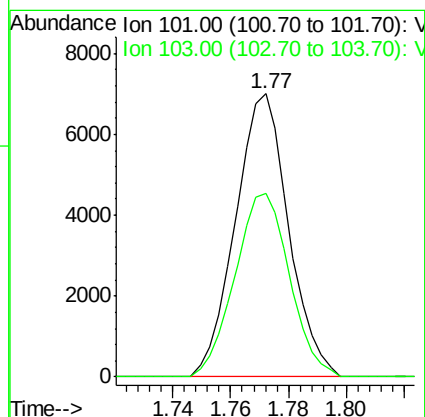
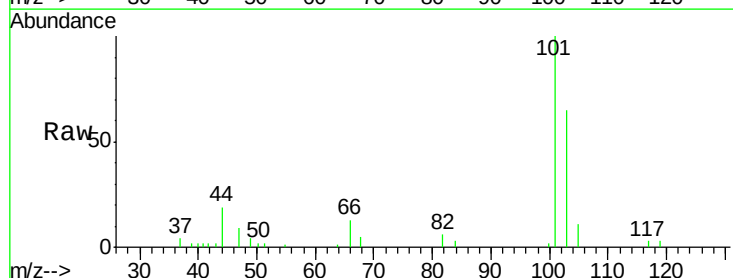
Acq: 06 Feb 2020 15:12

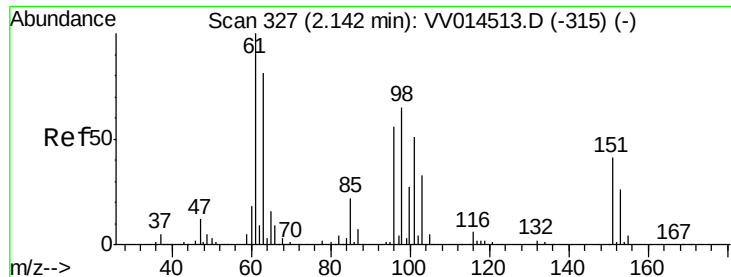
Tgt Ion: 101 Resp: 8907

Ion Ratio Lower Upper

101 100

103 66.6 51.8 77.8





#10

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

Concen: 3.294 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

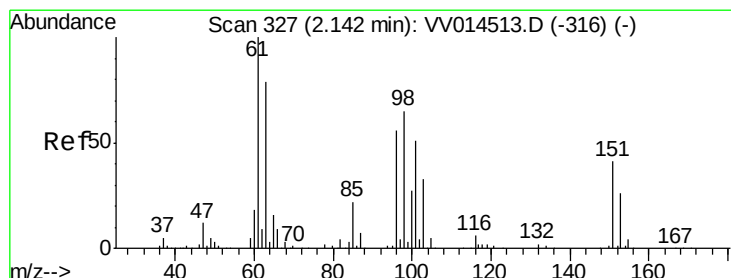
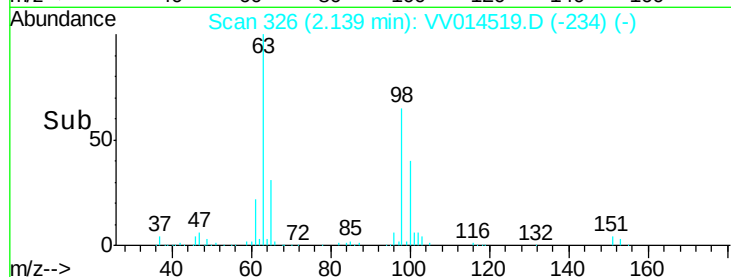
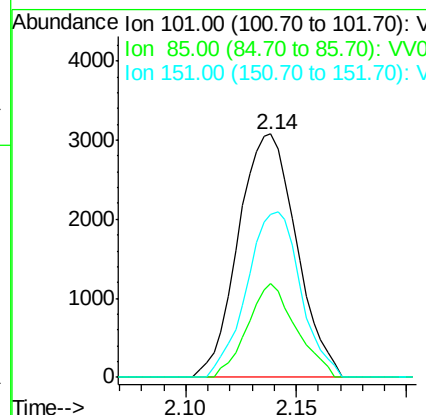
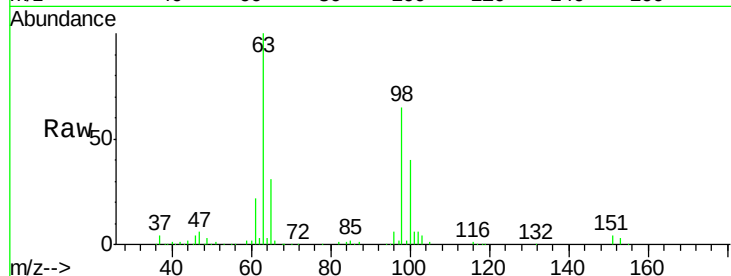
ClientSampled :

MDL01

Tot Ion:	101	Resp:	5611
Ion Ratio	Lower	Upper	
101	100		
85	32.2	35.0	52.6#
151	63.1	64.4	96.6#

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:49 PM



#12

1,1-Dichloroethene

Concen: 2.862 ug/L

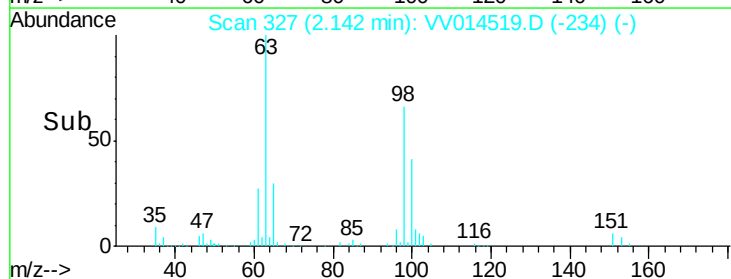
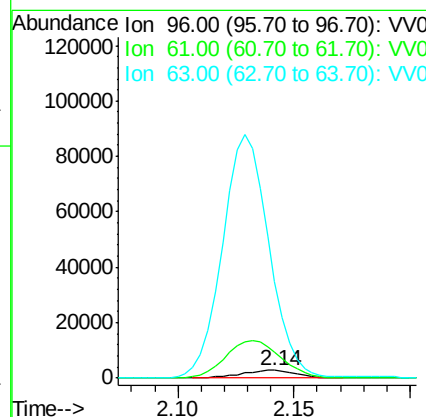
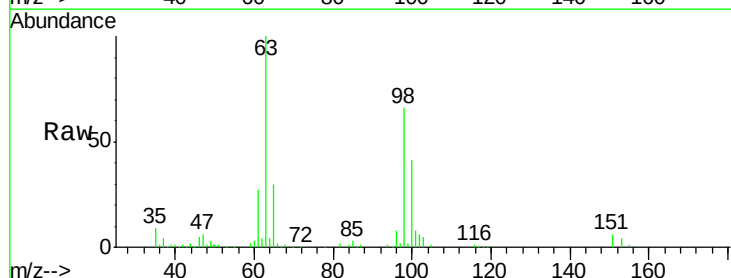
RT: 2.14 min Scan# 327

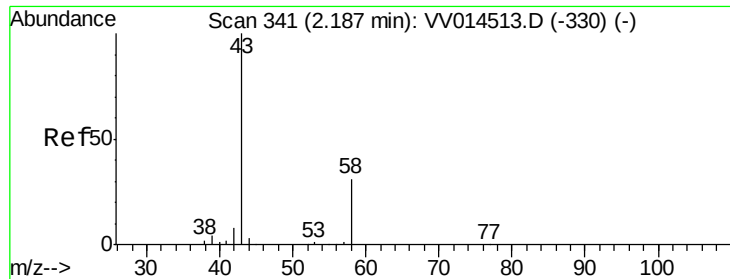
Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Tgt Ion:	96	Resp:	4663
Ion Ratio	Lower	Upper	
96	100		
61	319.0	125.0	232.2#
63	1197.5	101.6	188.6#





#13

Acetone

Concen: 6.766 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 10051

Ion Ratio Lower Upper

43 100

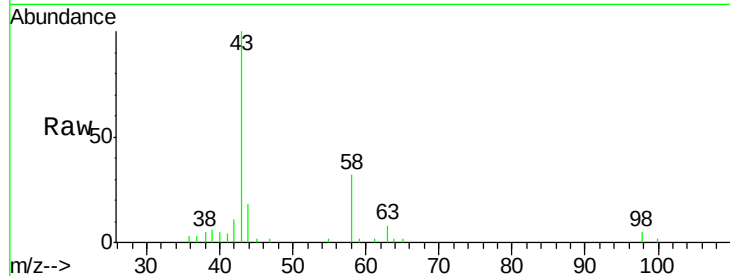
58 32.6 0.0 61.8

Manual Integrations

APPROVED

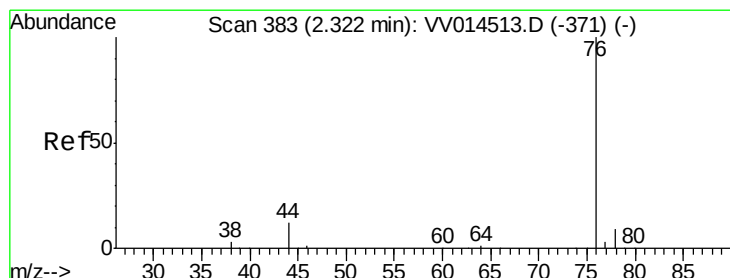
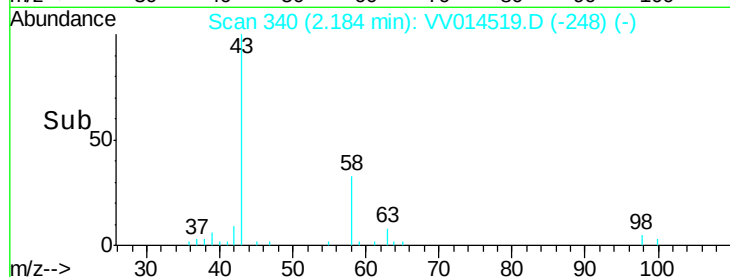
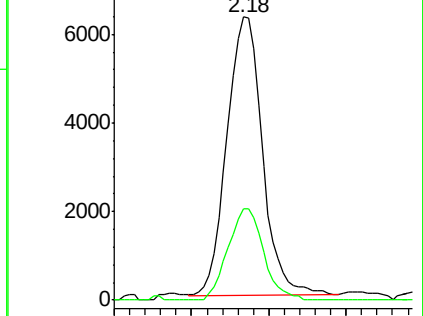
MMDadoda

2/7/2020 1:23:49 PM



Abundance Ion 43.00 (42.70 to 43.70): VV014519.D (-248) (-)

Ion 58.00 (57.70 to 58.70): VV014519.D (-248) (-)



#14

Carbon disulfide

Concen: 2.714 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV014519.D

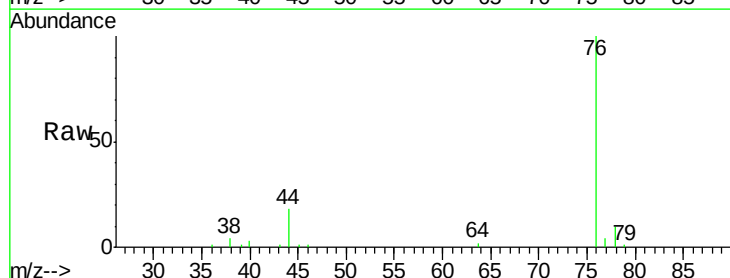
Acq: 06 Feb 2020 15:12

Tgt Ion: 76 Resp: 21470

Ion Ratio Lower Upper

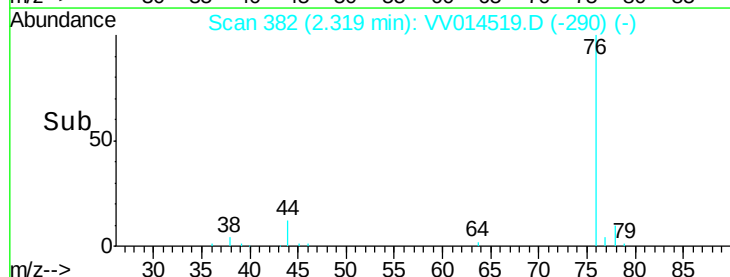
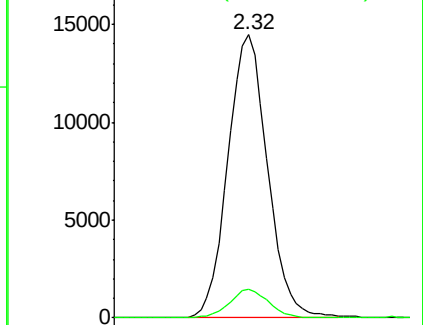
76 100

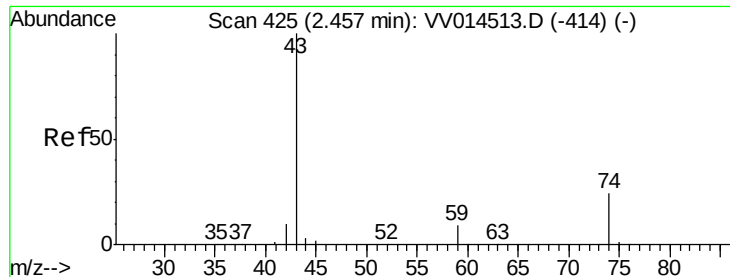
78 9.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV014519.D (-290) (-)

Ion 78.00 (77.70 to 78.70): VV014519.D (-290) (-)





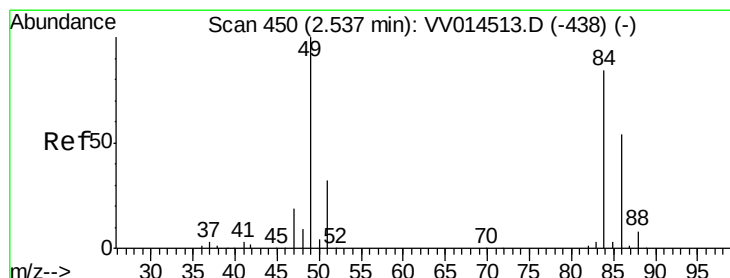
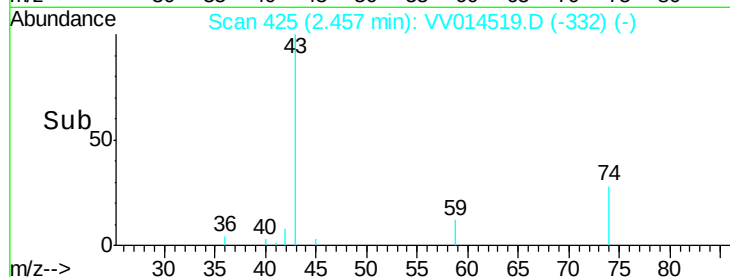
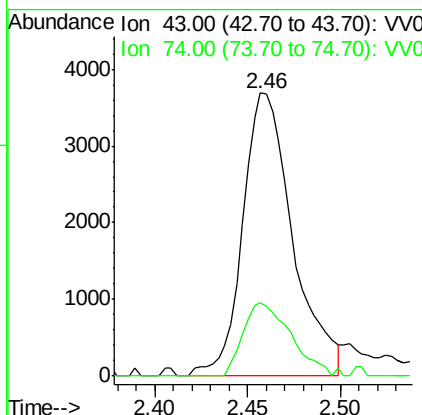
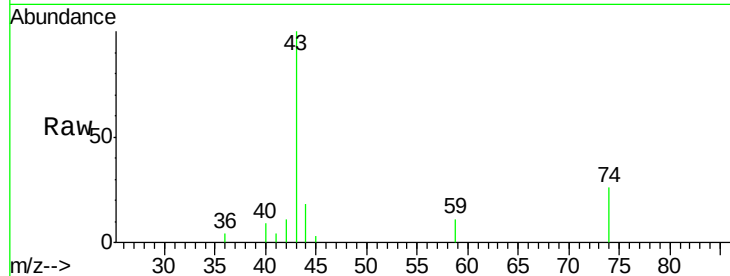
#15
Methvl Acetate
Concen: 2.430 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion: 43 Resp: 6940
Ion Ratio Lower Upper
43 100
74 24.5 19.4 29.0

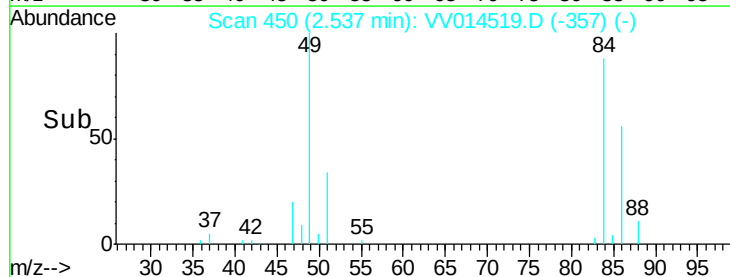
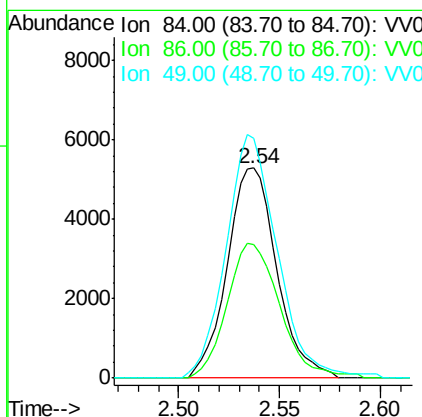
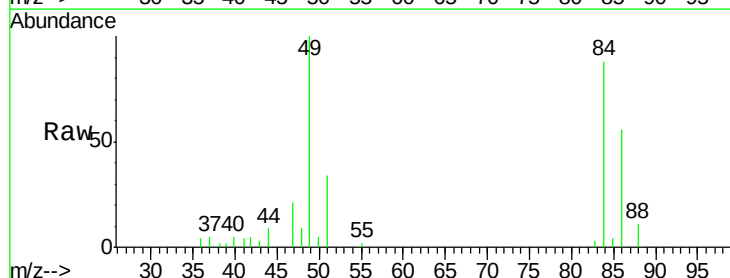
Manual Integrations
APPROVED

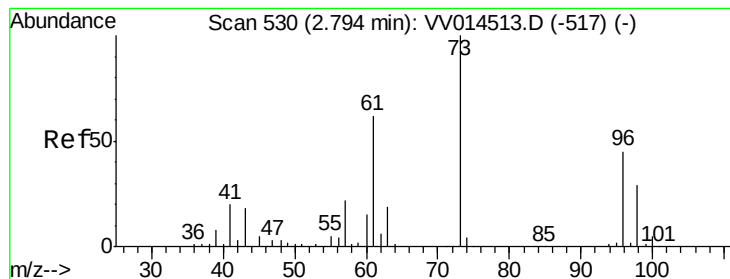
MMDadoda
2/7/2020 1:23:49 PM



#16
Methylene chloride
Concen: 2.947 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion: 84 Resp: 9118
Ion Ratio Lower Upper
84 100
86 63.4 44.6 82.8
49 114.0 83.2 154.4





#17

trans-1,2-Dichloroethene

Concen: 2.660 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

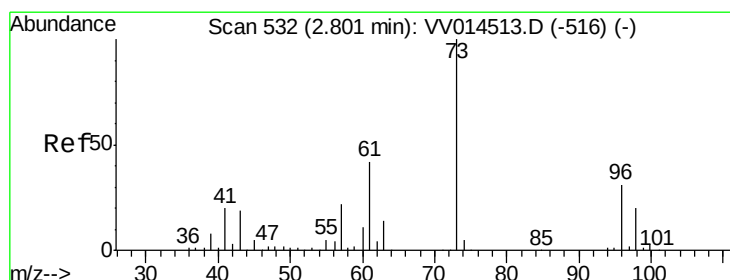
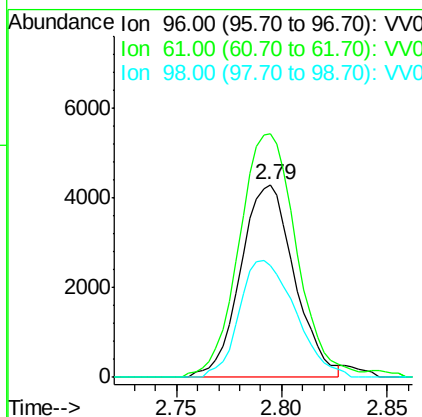
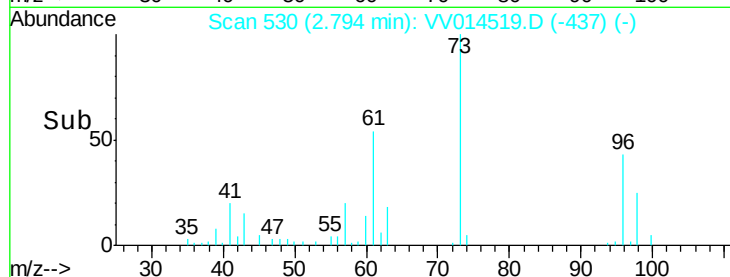
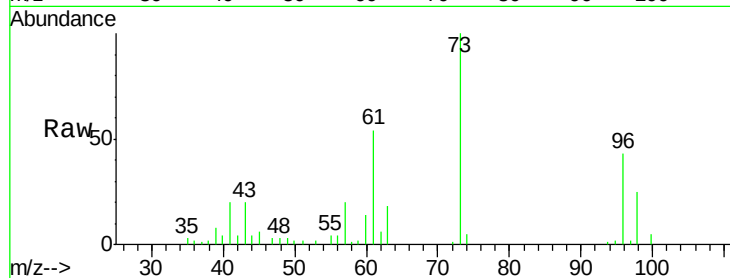
ClientSampleId :

MDL01

Tot Ion:	96	Resp:	7635
Ion	Ratio	Lower	Upper
96	100		
61	126.2	95.8	178.0
98	57.8	45.1	83.7

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:49 PM



#18

Methyl tert-butyl Ether

Concen: 2.469 ug/L

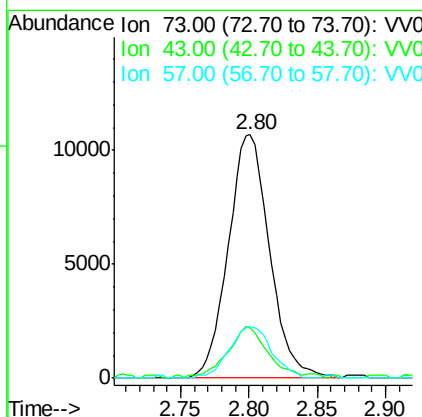
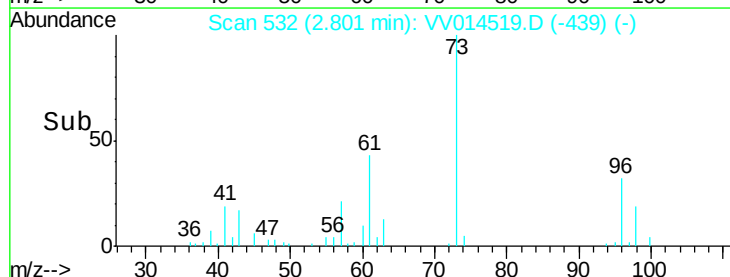
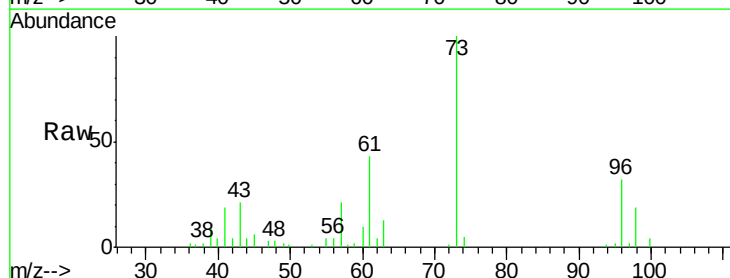
RT: 2.80 min Scan# 532

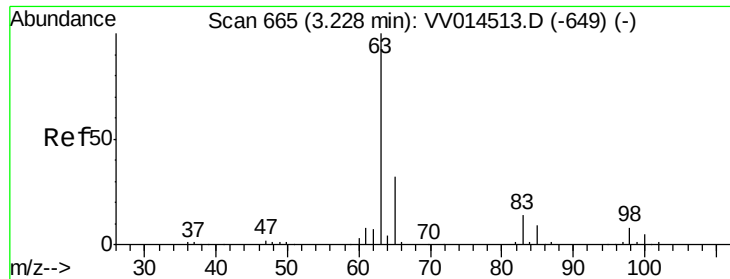
Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Tgt Ion:	73	Resp:	22444
Ion	Ratio	Lower	Upper
73	100		
43	20.5	14.9	22.3
57	21.7	17.5	26.3





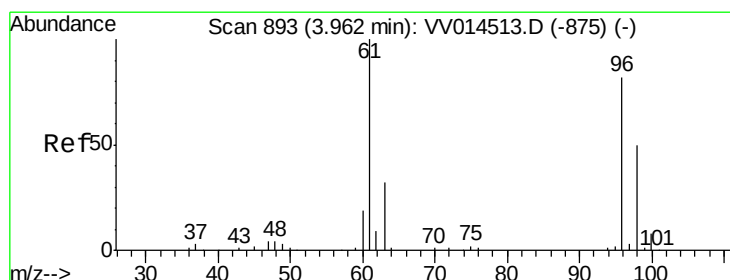
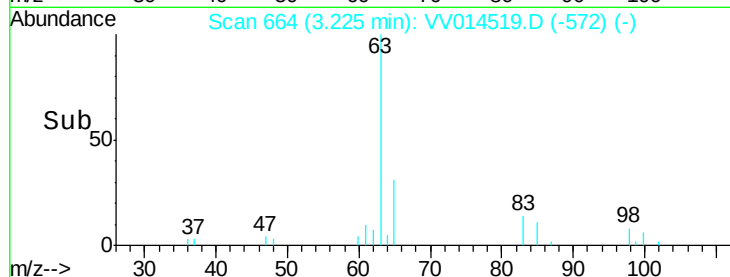
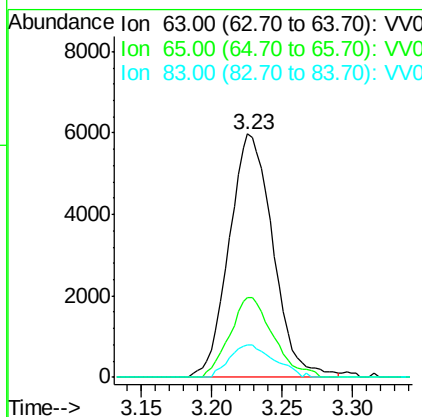
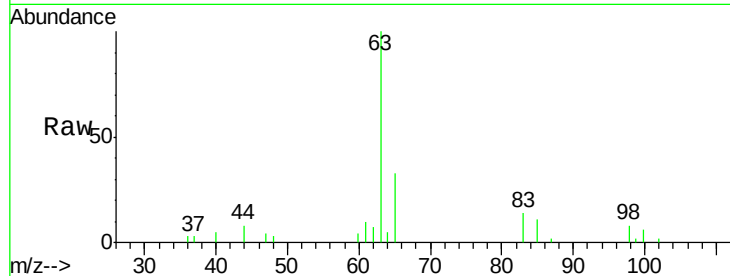
#19
 1,1-Dichloroethane
 Concen: 2.528 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion:	63	Resp:	12976
Ion	Ratio	Lower	Upper
63	100		
65	33.0	22.5	41.7
83	13.6	9.7	18.1

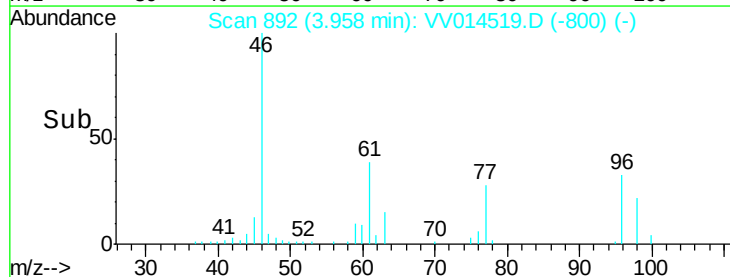
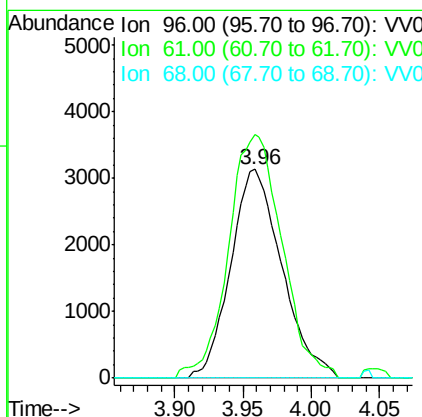
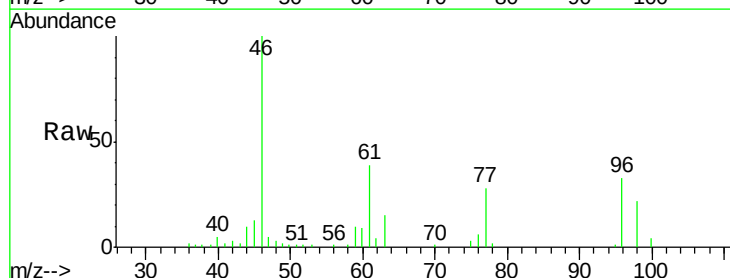
Manual Integrations
 APPROVED

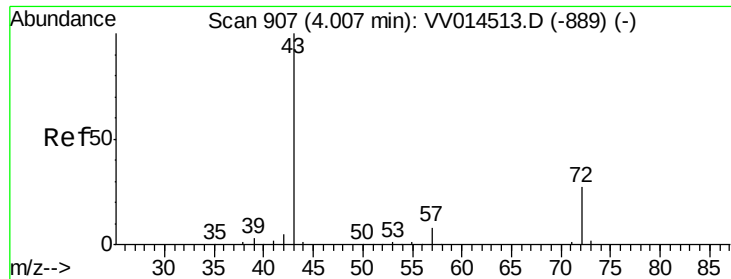
MMDadoda
 2/7/2020 1:23:49 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.533 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion:	96	Resp:	8182
Ion	Ratio	Lower	Upper
96	100		
61	116.6	85.2	158.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.627 ug/L m

RT: 4.02 min Scan# 912

Delta R.T. 0.02 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 43 Resp: 10166

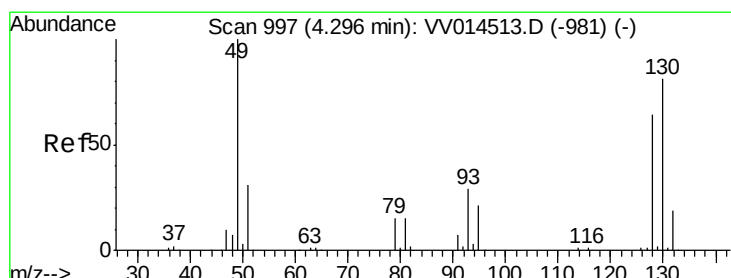
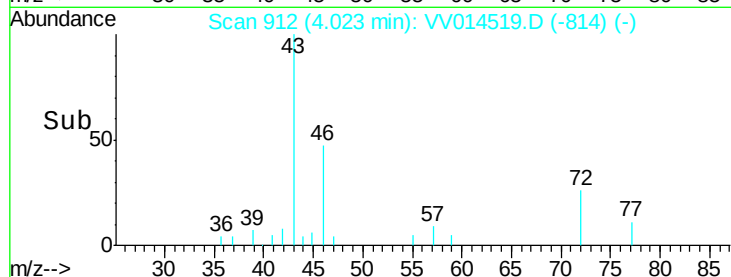
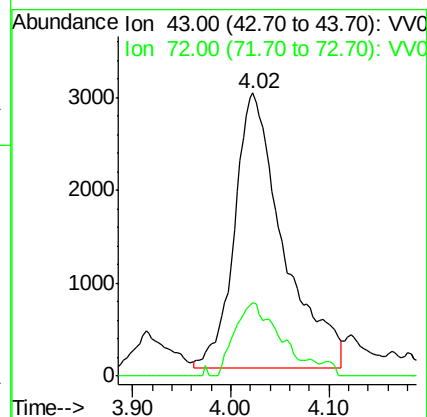
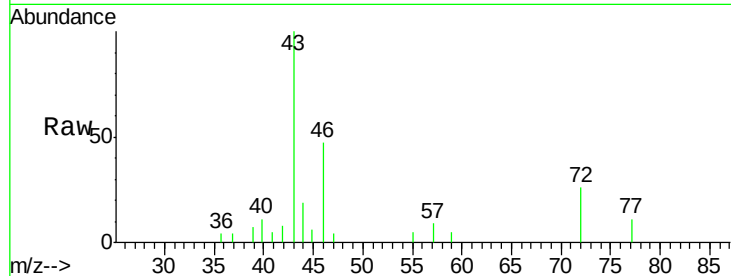
Ion Ratio Lower Upper

43 100

72 14.5 12.7 38.1

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:49 PM



#23

Bromochloromethane

Concen: 2.571 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Tgt Ion: 128 Resp: 3932

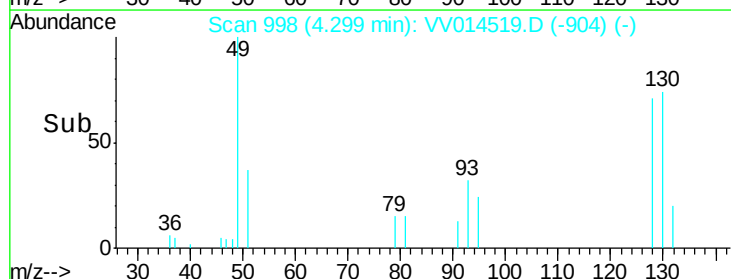
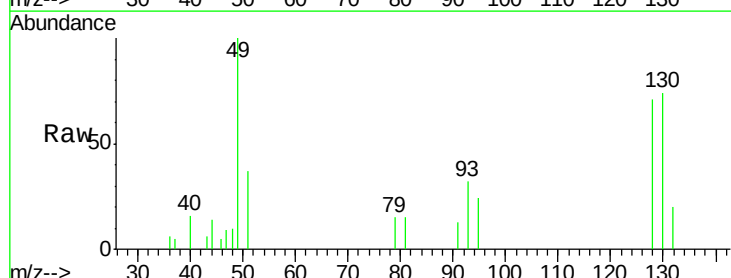
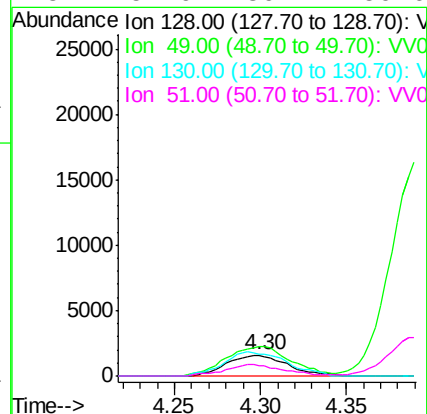
Ion Ratio Lower Upper

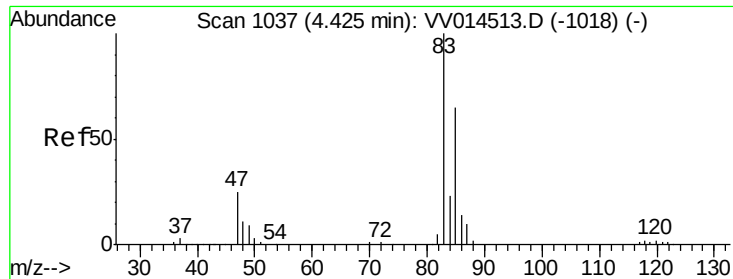
128 100

49 141.4 110.1 204.5

130 104.7 88.5 164.4

51 51.9 39.4 59.0





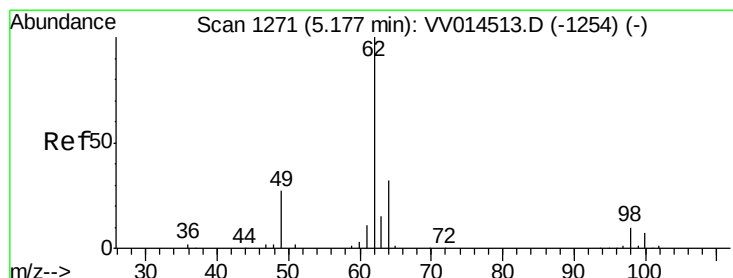
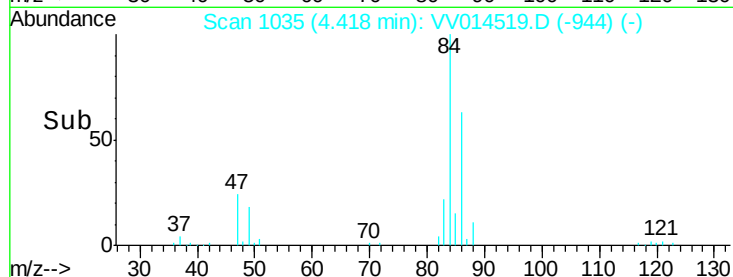
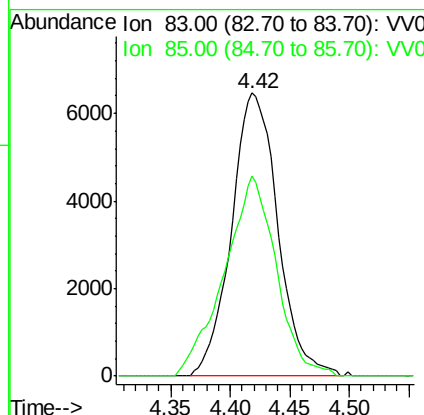
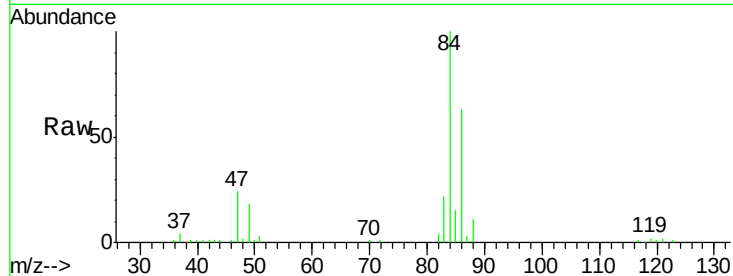
#25
Chloroform
Concen: 3.345 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.01 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	83	Resp	17454
Ion Ratio	100	Lower	Upper
85	70.6	45.8	85.0

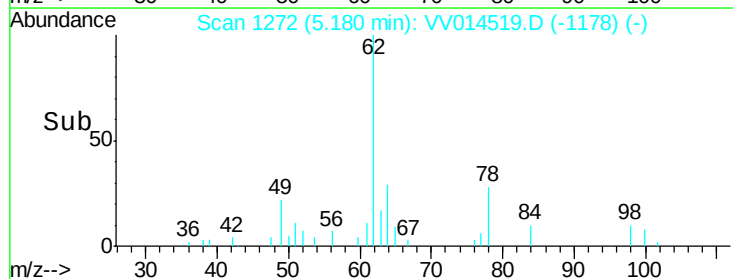
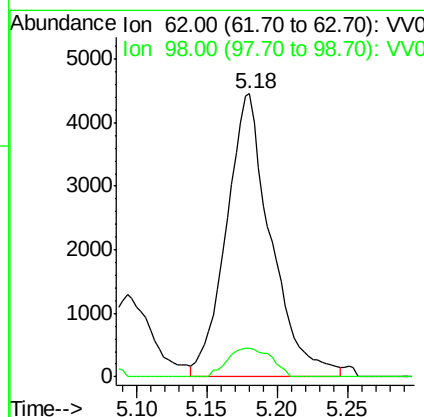
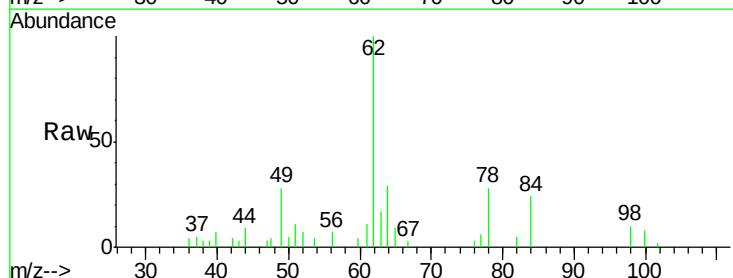
Manual Integrations
APPROVED

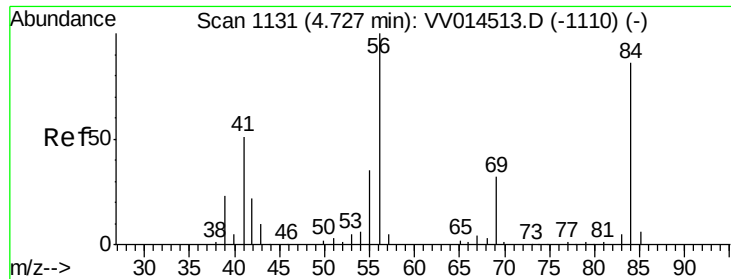
MMDadoda
2/7/2020 1:23:49 PM



#27
1,2-Dichloroethane
Concen: 2.528 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion	62	Resp	9831
Ion Ratio	100	Lower	Upper
98	10.3	8.2	12.4





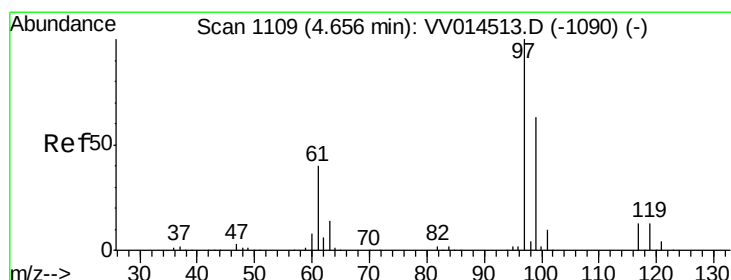
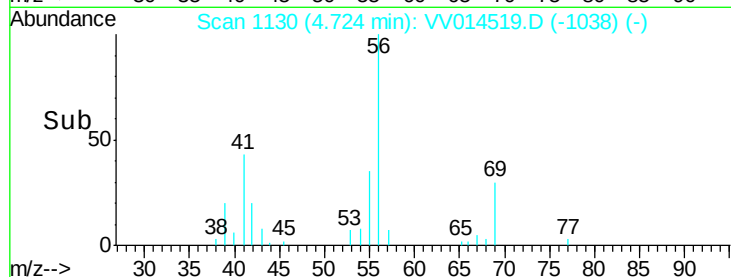
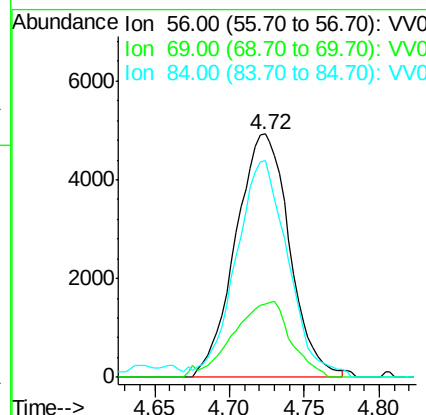
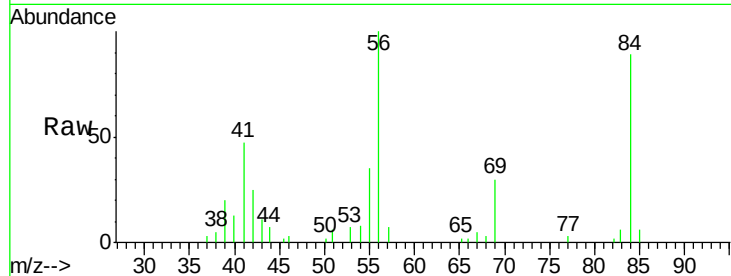
#29
Cyclohexane
Concen: 2.591 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.5	25.2	37.8
84	86.0	69.8	104.8

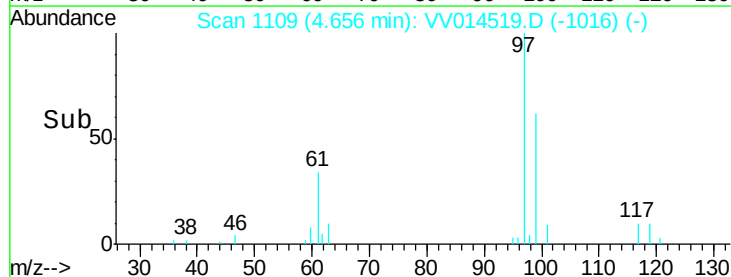
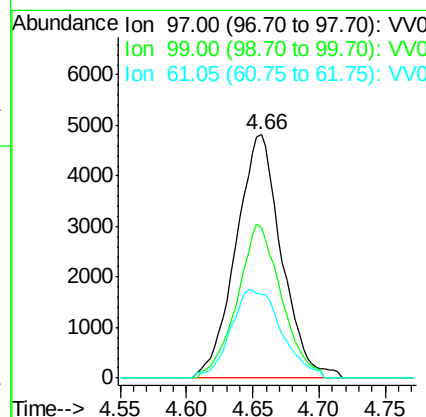
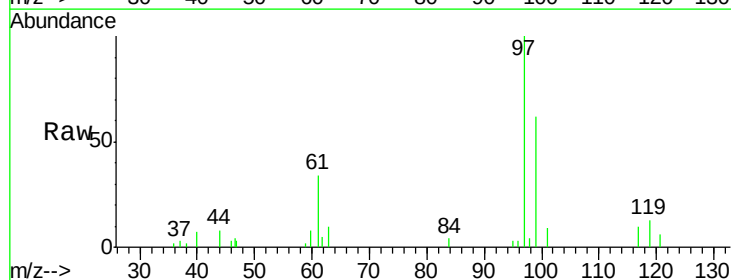
Manual Integrations
APPROVED

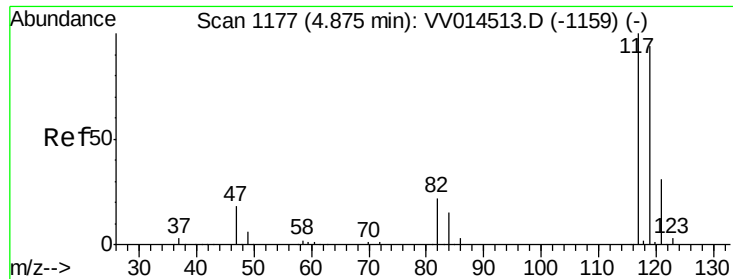
MMDadoda
2/7/2020 1:23:49 PM



#30
1,1,1-Trichloroethane
Concen: 2.602 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.1	50.6	76.0
61	21.7	33.0	49.4





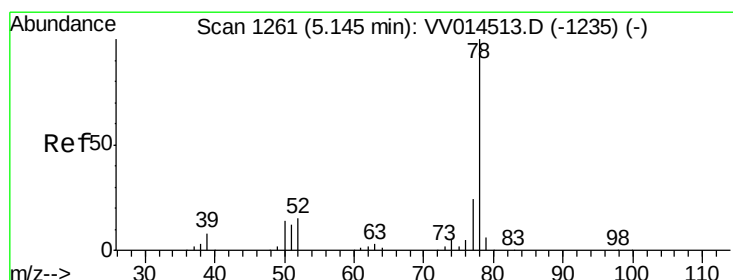
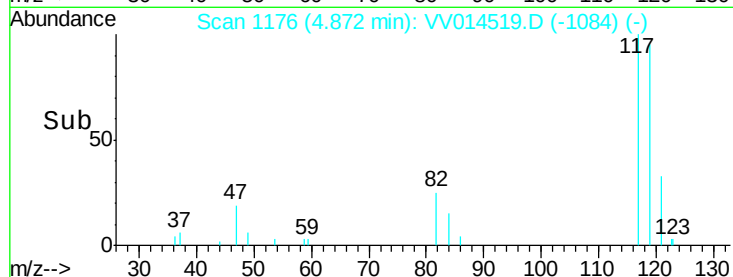
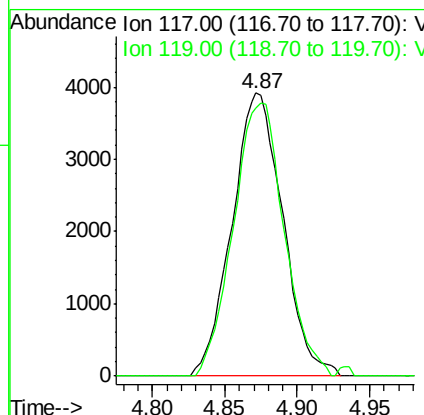
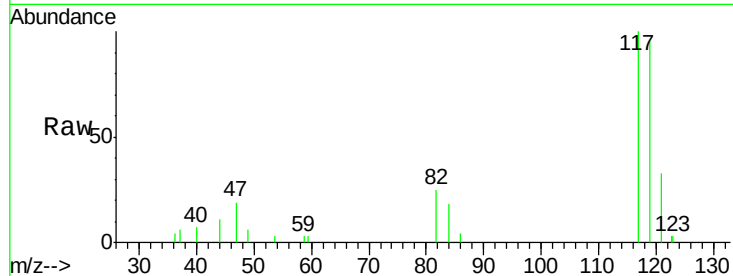
#31
Carbon tetrachloride
Concen: 2.445 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion:117 Resp: 9538
Ion Ratio Lower Upper
117 100
119 96.6 76.7 115.1

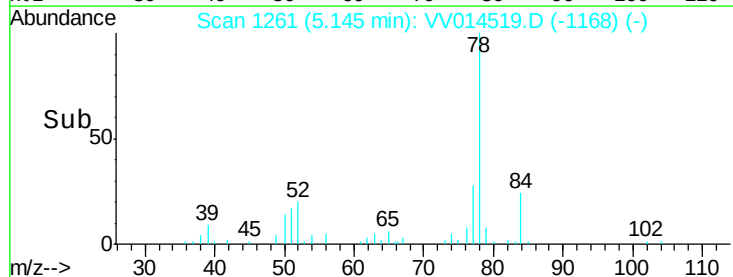
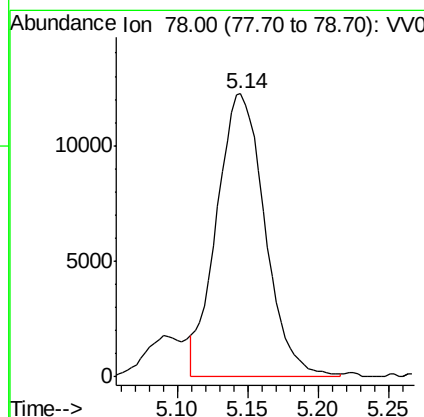
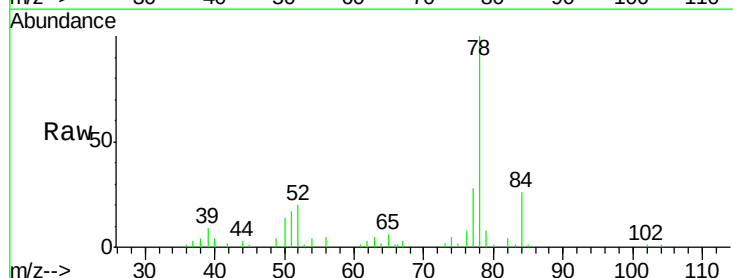
Manual Integrations
APPROVED

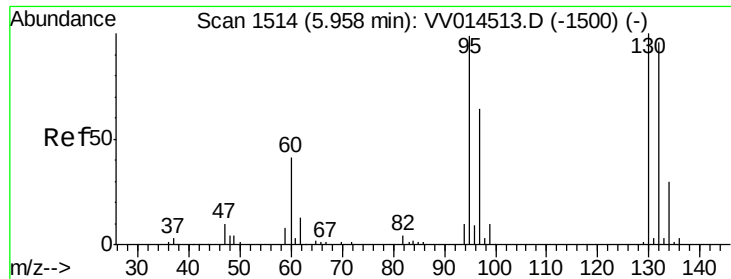
MMDadoda
2/7/2020 1:23:49 PM



#33
Benzene
Concen: 2.564 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion: 78 Resp: 29201





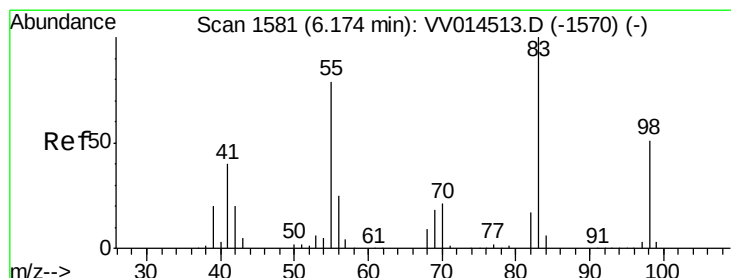
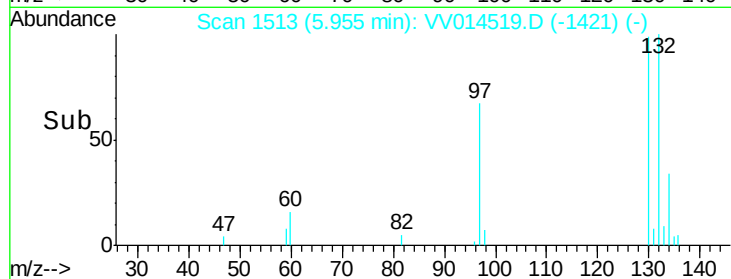
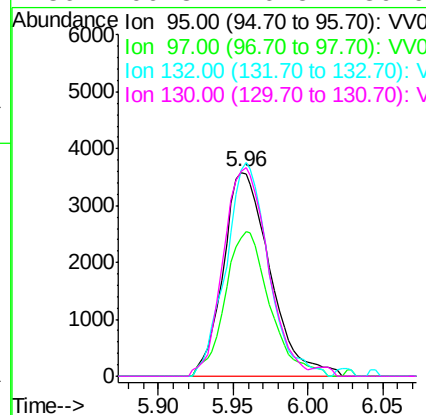
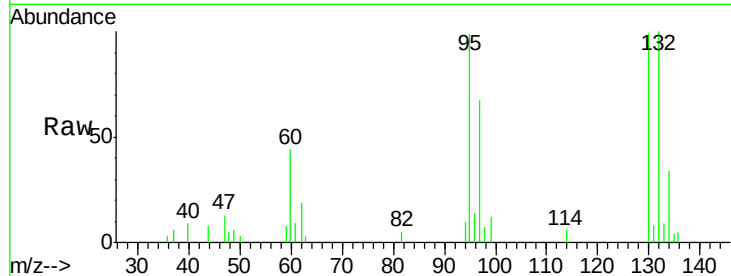
#34
 Trichloroethene
 Concen: 2.586 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
95	100		
97	67.8	45.1	83.7
132	101.3	67.7	125.7
130	100.8	70.5	130.9

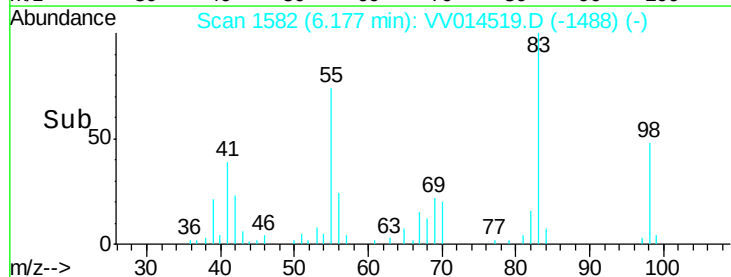
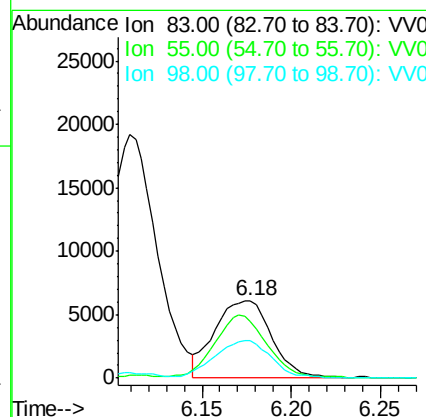
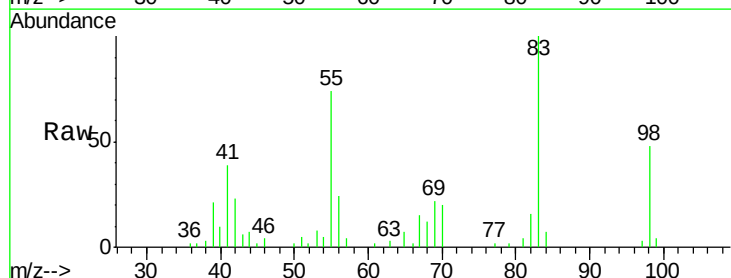
Manual Integrations
 APPROVED

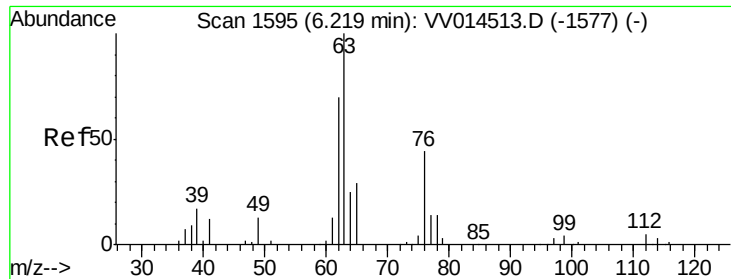
MMDadoda
 2/7/2020 1:23:49 PM



#35
 Methylcyclohexane
 Concen: 2.736 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.8	60.7	91.1
98	47.9	39.4	59.0





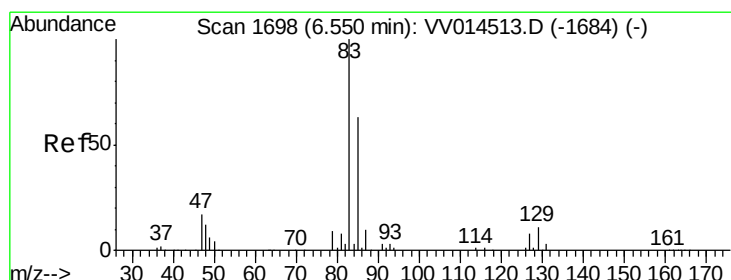
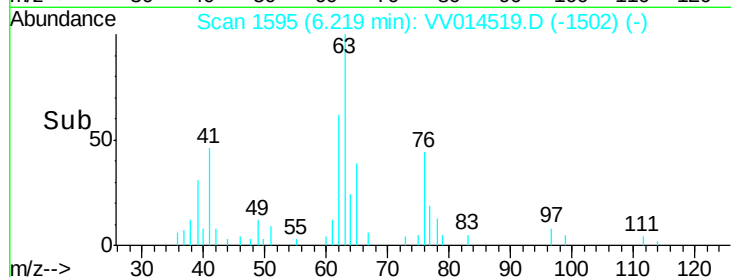
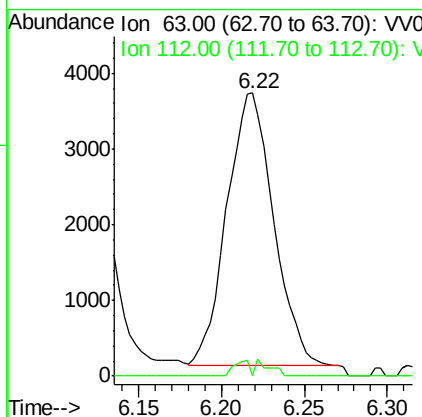
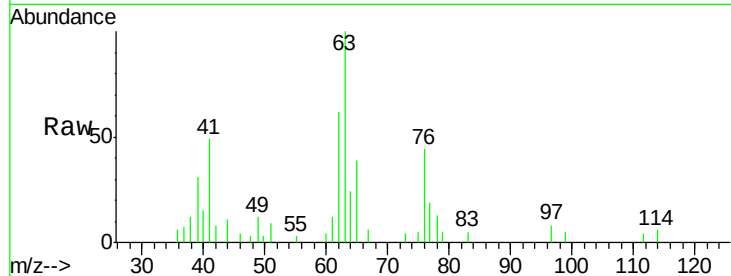
#37
 1,2-Dichloropropane
 Concen: 2.433 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion: 63 Resp: 7058
 Ion Ratio Lower Upper
 63 100
 112 0.9 3.7 5.5#

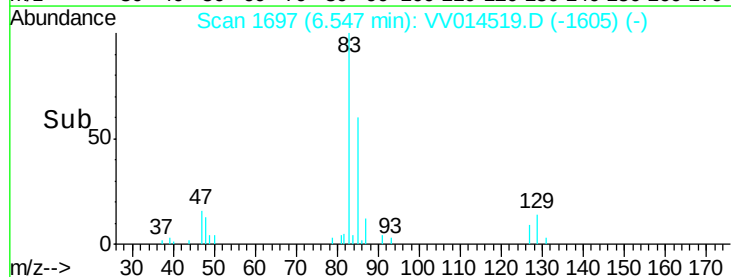
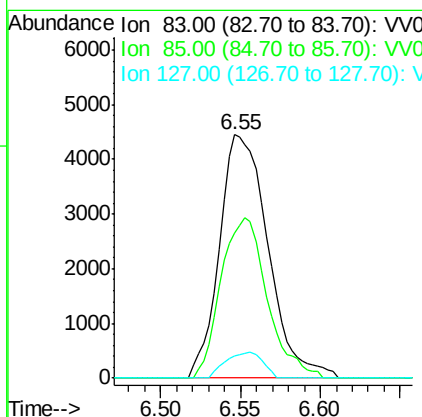
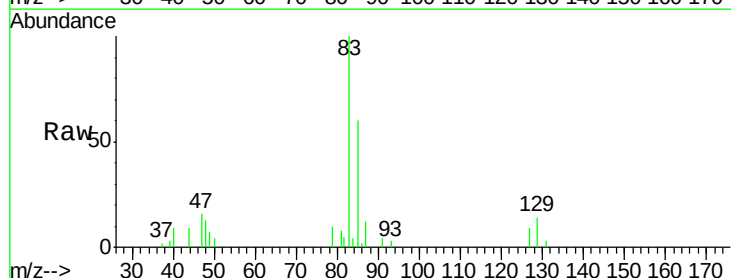
Manual Integrations
 APPROVED

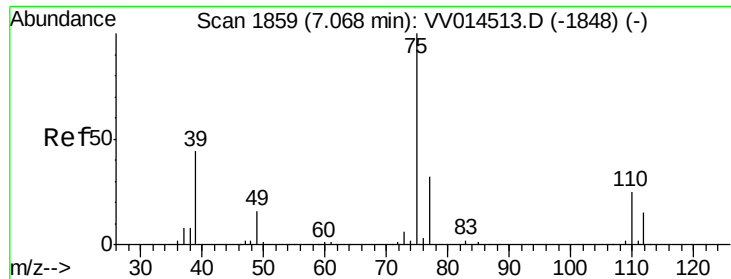
MMDadoda
 2/7/2020 1:23:49 PM



#38
 Bromodichloromethane
 Concen: 2.379 ug/L
 RT: 6.55 min Scan# 1697
 Delta R.T. -0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion: 83 Resp: 9260
 Ion Ratio Lower Upper
 83 100
 85 59.7 44.4 82.4
 127 8.9 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 2.455 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 75 Resp: 11882

Ion Ratio Lower Upper

75 100

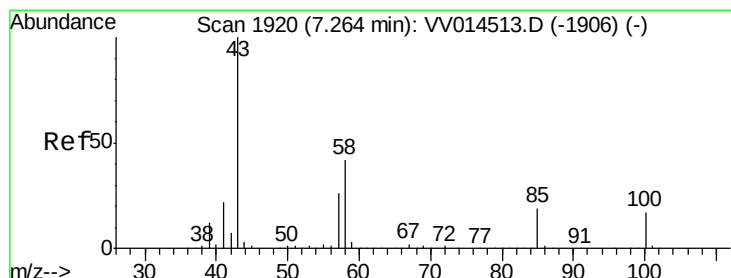
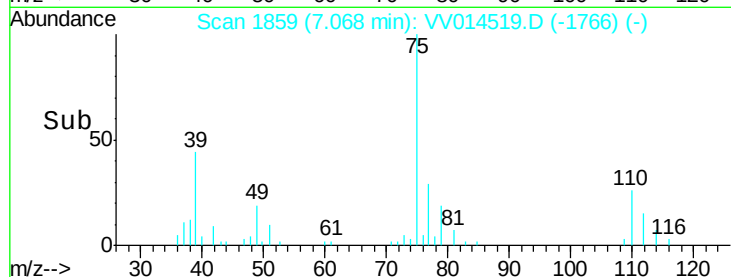
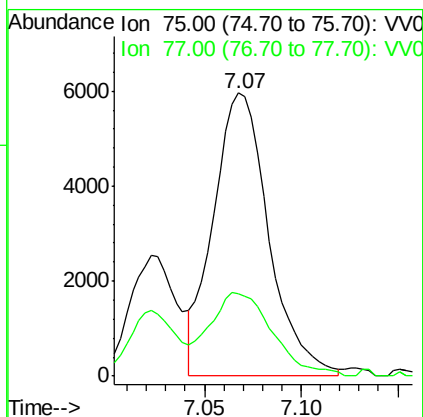
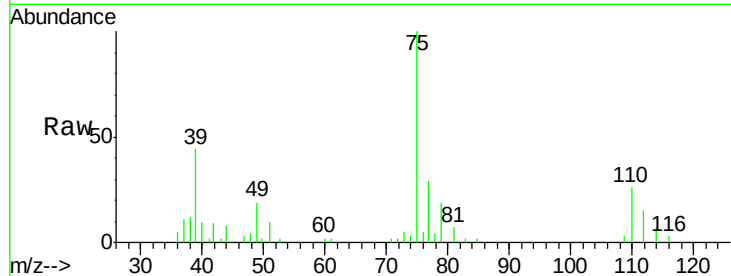
77 29.3 22.7 42.1

Manual Integrations

APPROVED

MMDadoda

2/7/2020 1:23:49 PM



#40

4-Methyl-2-pentanone

Concen: 4.485 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

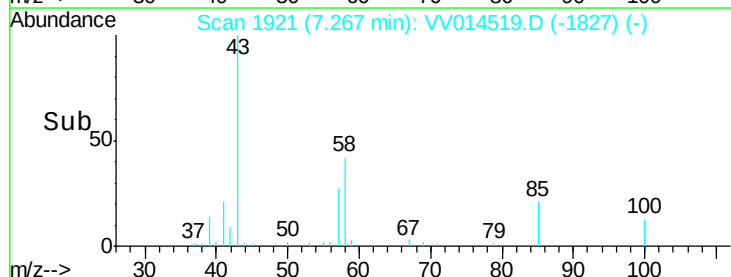
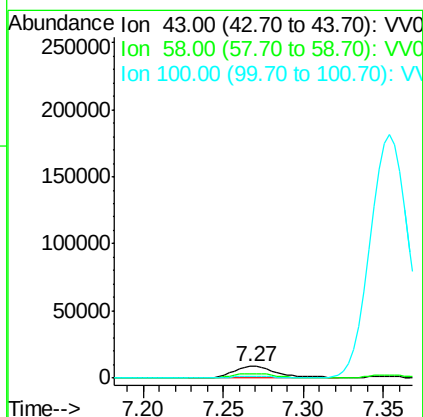
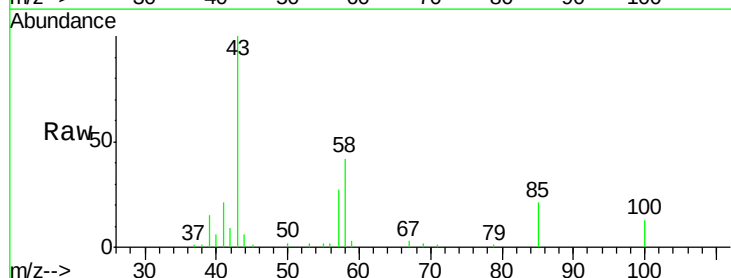
Tgt Ion: 43 Resp: 16811

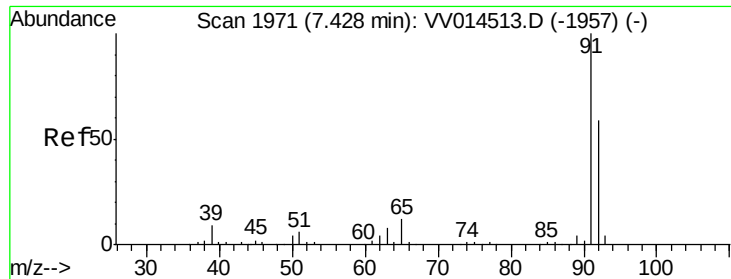
Ion Ratio Lower Upper

43 100

58 42.1 33.2 49.8

100 15.7 13.9 20.9





#42

Toluene

Concen: 2.559 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 31249

Ion Ratio Lower Upper

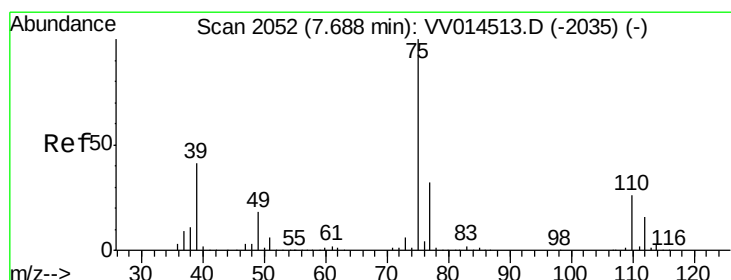
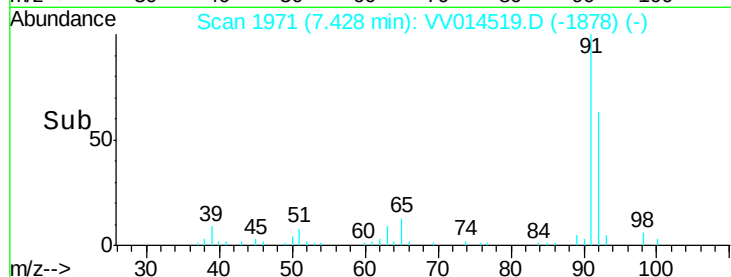
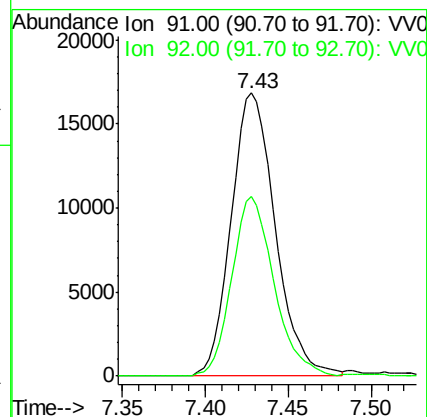
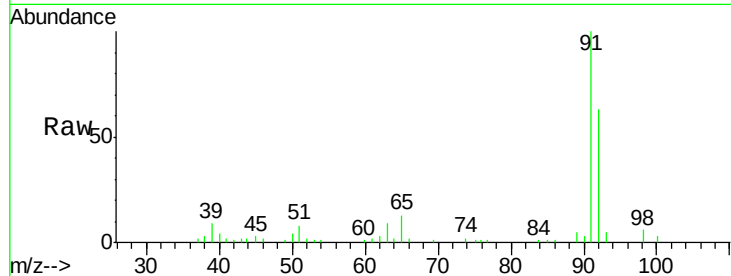
91 100

92 63.5 41.6 77.2

Manual Integrations
APPROVED

MMDadoda

2/7/2020 1:23:49 PM



#44

trans-1,3-Dichloropropene

Concen: 2.578 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014519.D

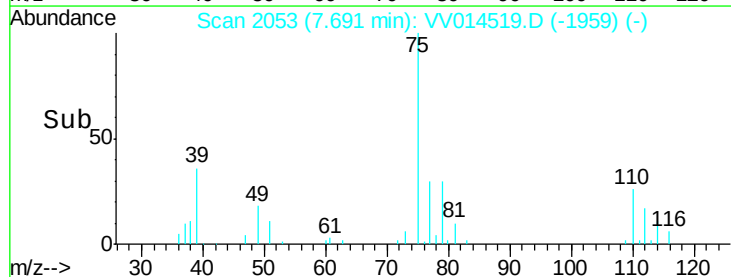
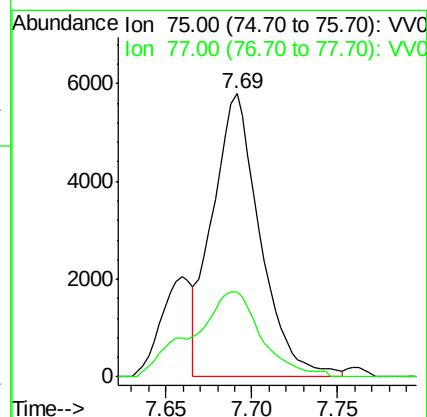
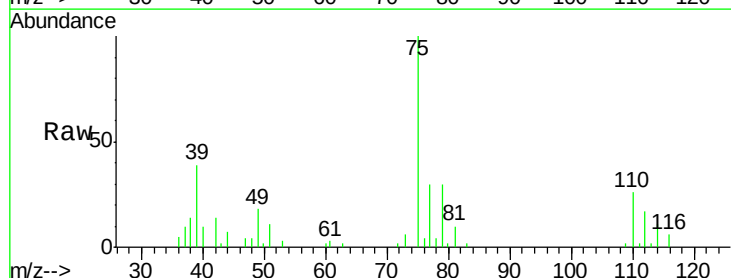
Acq: 06 Feb 2020 15:12

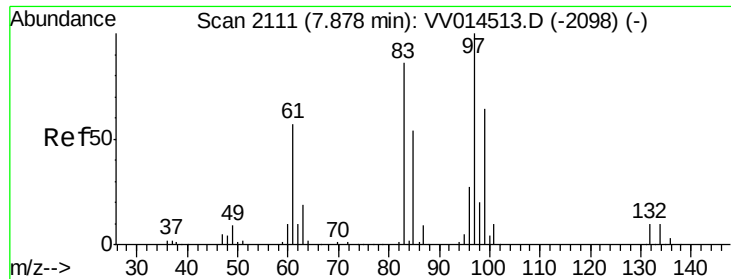
Tgt Ion: 75 Resp: 11184

Ion Ratio Lower Upper

75 100

77 29.9 22.2 41.2





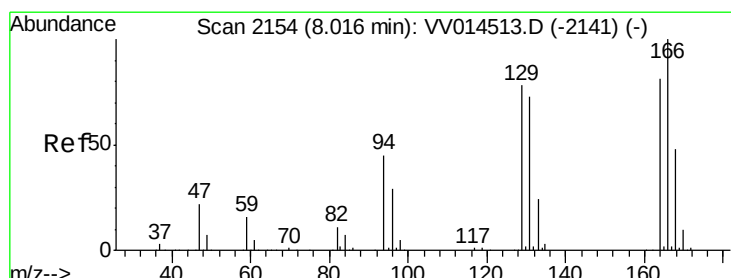
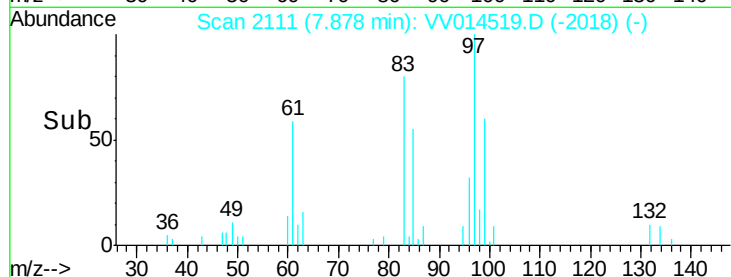
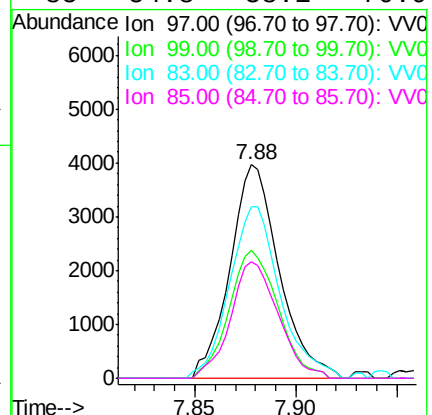
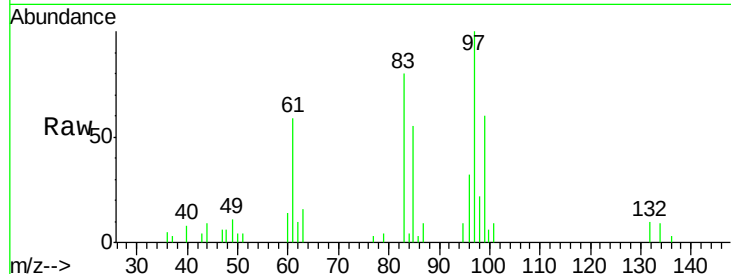
#45
1,1,2-Trichloroethane
Concen: 2.431 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	97	Resp:	6766
Ion	Ratio	Lower	Upper
97	100		
99	60.2	44.5	82.7
83	80.4	60.1	111.5
85	54.8	38.1	70.9

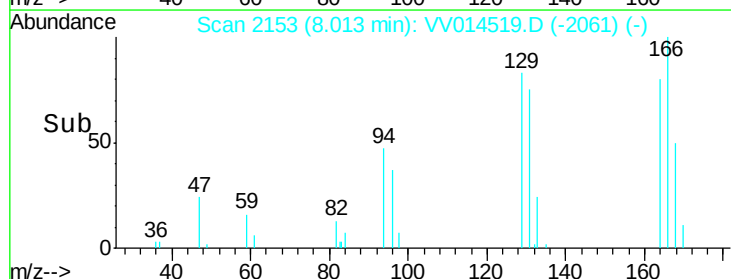
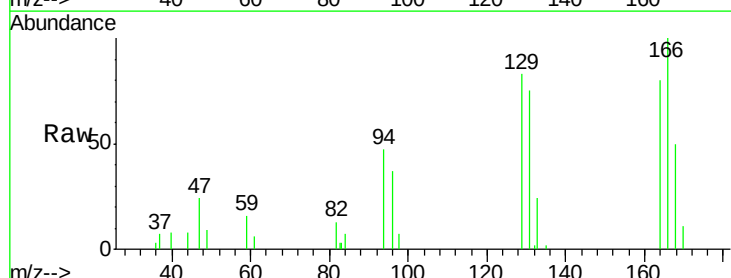
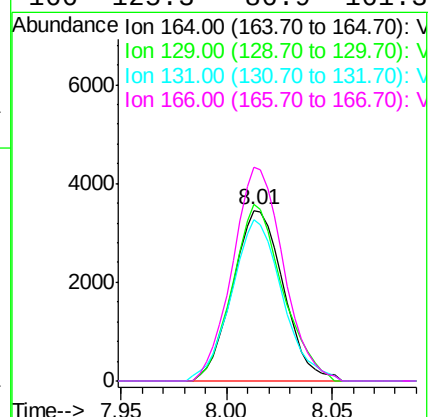
Manual Integrations
APPROVED

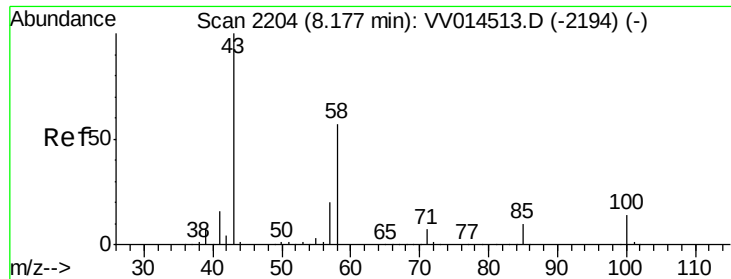
MMDadoda
2/7/2020 1:23:49 PM



#46
Tetrachloroethene
Concen: 2.513 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. -0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion	164	Resp:	5787
Ion	Ratio	Lower	Upper
164	100		
129	103.4	68.0	126.4
131	94.4	63.4	117.8
166	125.3	86.9	161.3





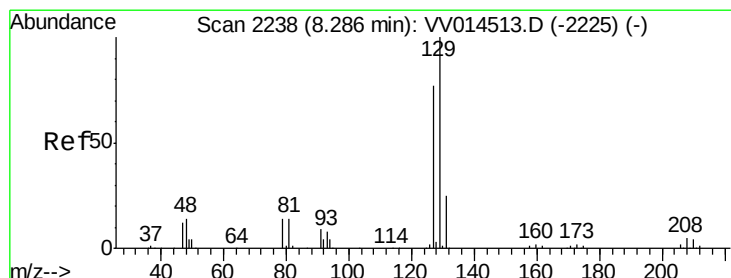
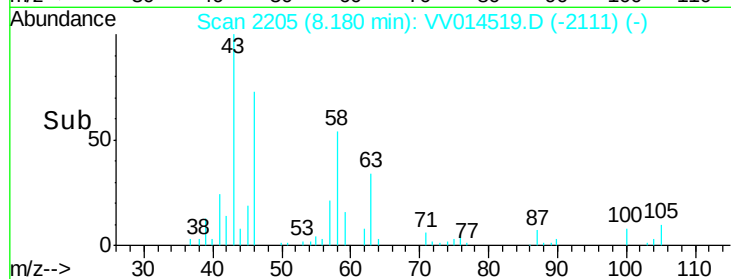
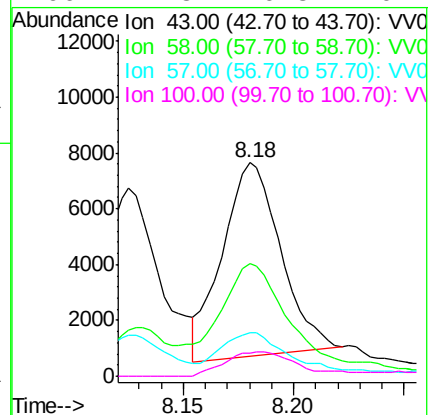
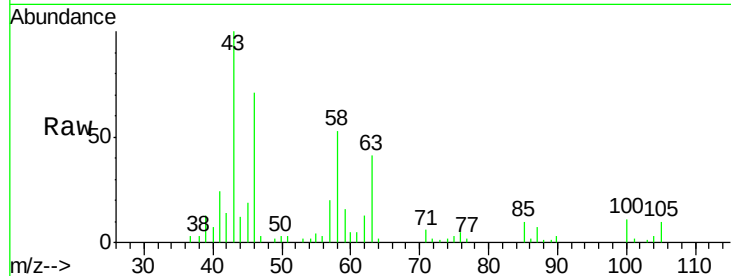
#48
2-Hexanone
Concen: 4.420 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	57.8	45.5	68.3	
57	16.3	15.8	23.6	
100	14.8	10.8	16.2	

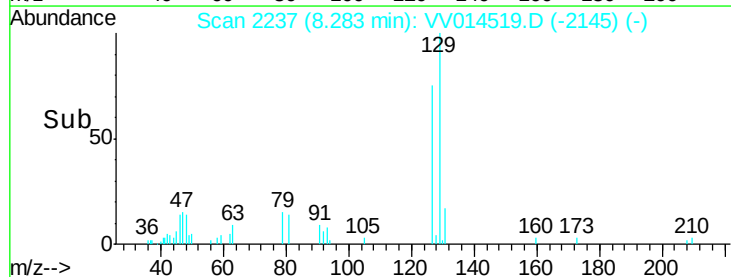
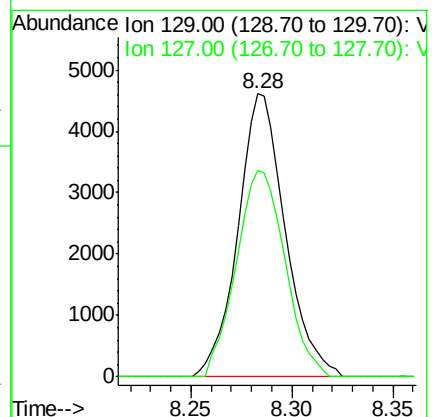
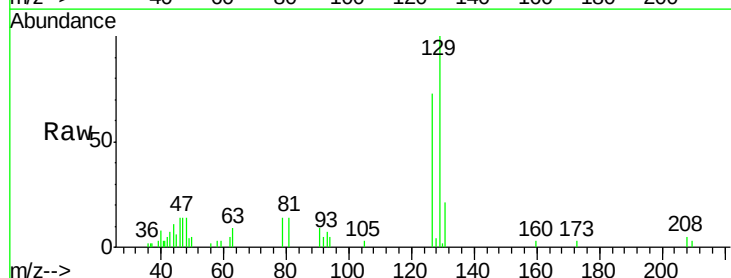
Manual Integrations
APPROVED

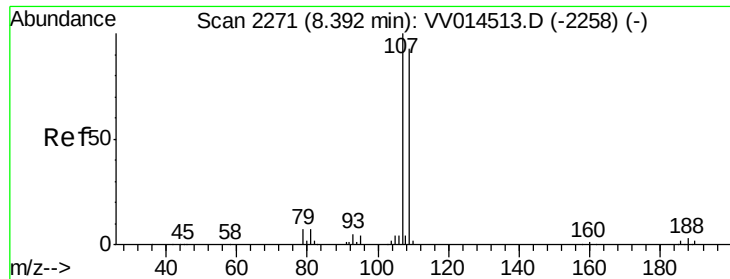
MMDadoda
2/7/2020 1:23:49 PM



#49
Dibromochloromethane
Concen: 2.405 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	73.2	54.1	100.5	





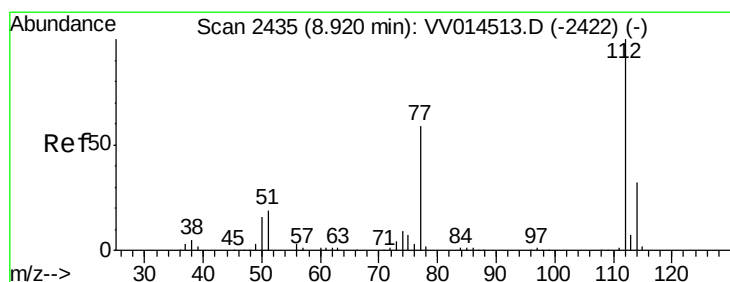
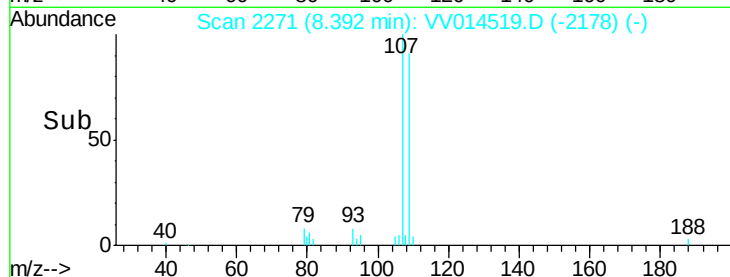
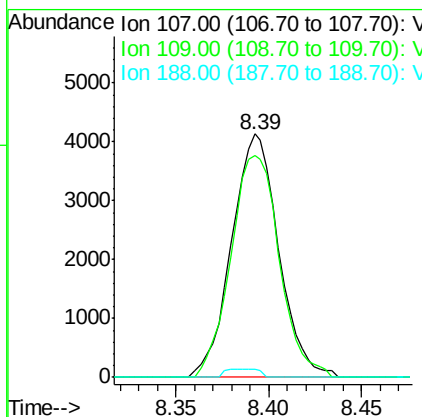
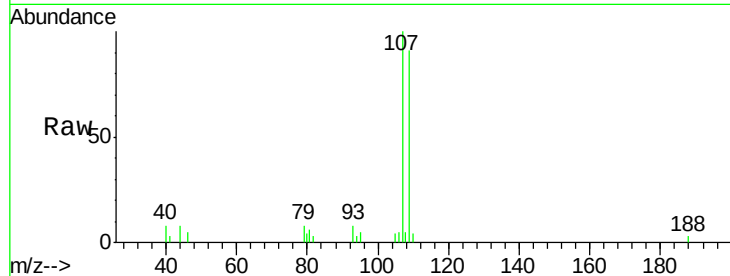
#50
1,2-Dibromoethane
Concen: 2.411 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.3	65.2	121.2
188	3.4	2.6	4.0

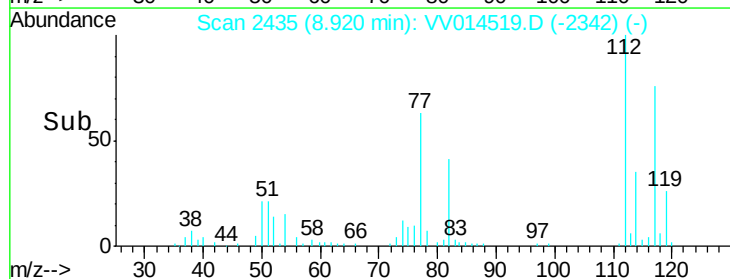
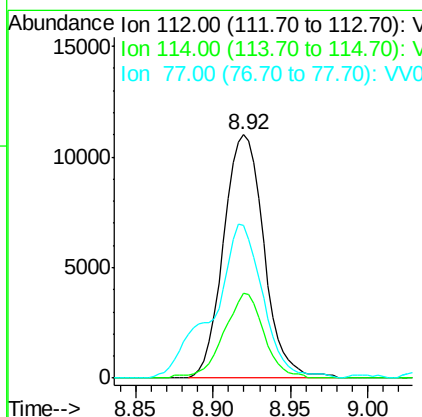
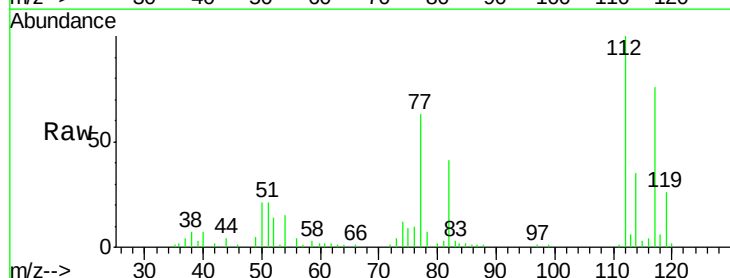
Manual Integrations
APPROVED

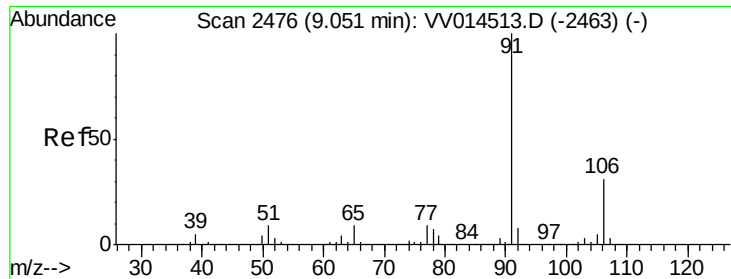
MMDadoda
2/7/2020 1:23:49 PM



#51
Chlorobenzene
Concen: 2.497 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.7	22.3	41.5
77	62.6	47.3	70.9





#52

Ethylbenzene

Concen: 2.514 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 34422

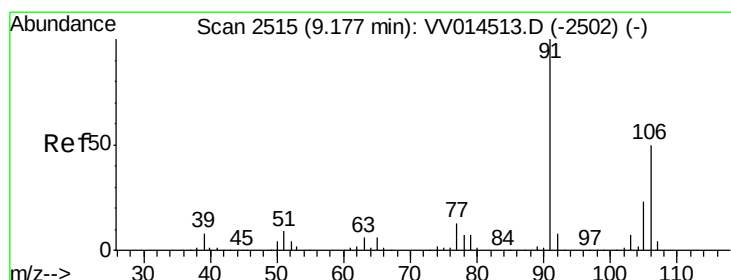
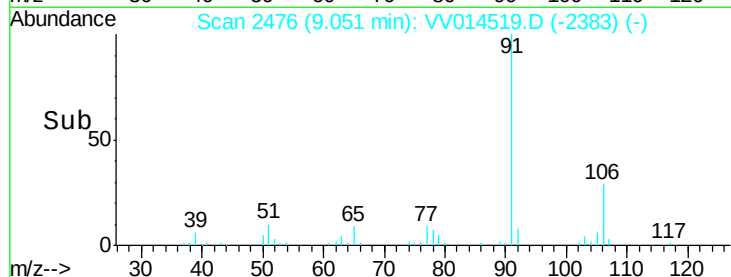
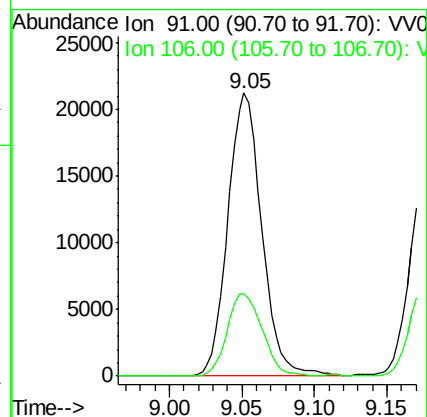
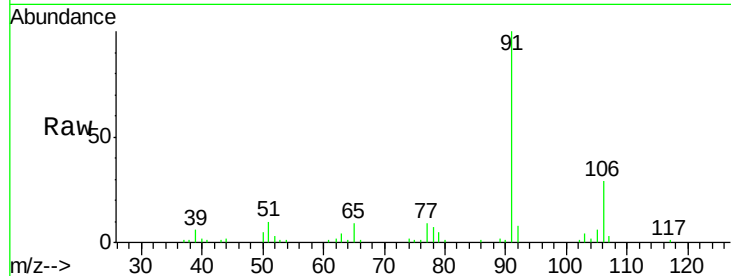
Ion Ratio Lower Upper

91 100

106 29.3 21.5 39.9

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:49 PM



#53

m,p-Xylene

Concen: 2.419 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014519.D

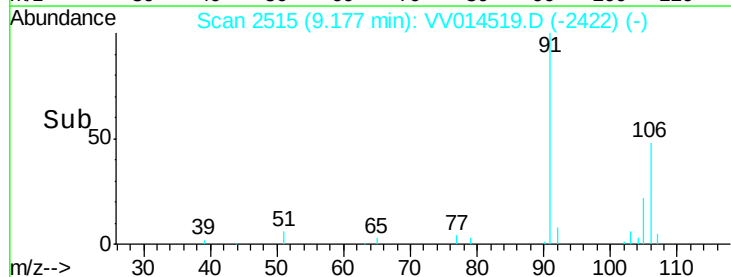
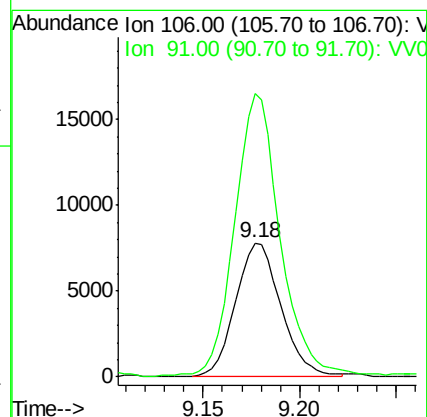
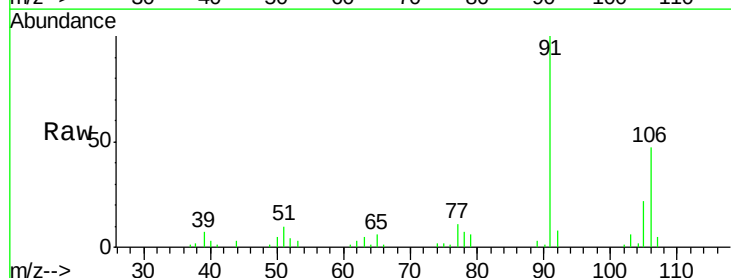
Acq: 06 Feb 2020 15:12

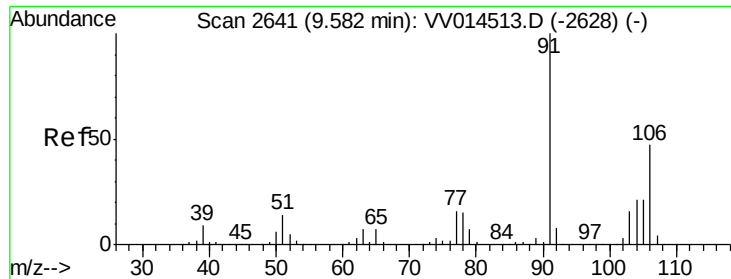
Tgt Ion: 106 Resp: 12758

Ion Ratio Lower Upper

106 100

91 211.0 141.4 262.6





#54

o-Xylene

Concen: 2.449 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion:106 Resp: 12365

Ion Ratio Lower Upper

106 100

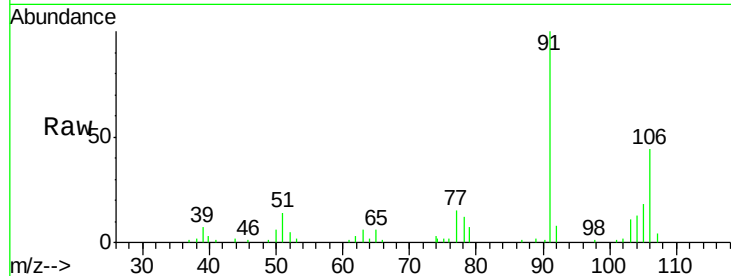
91 227.4 149.4 277.4

Manual Integrations

APPROVED

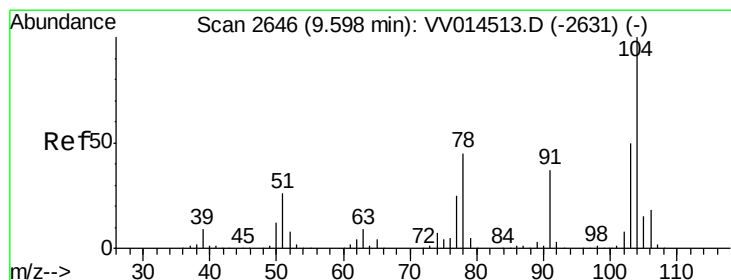
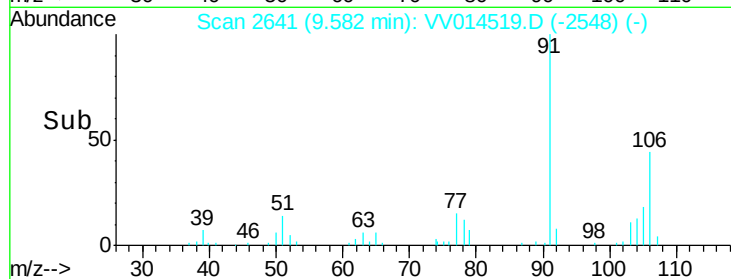
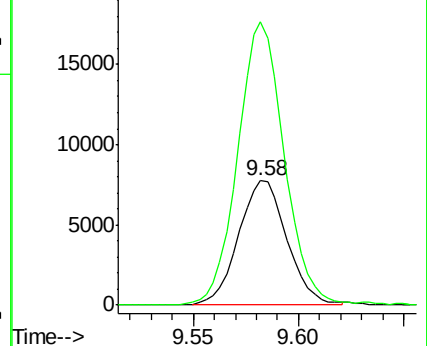
MMDadoda

2/7/2020 1:23:49 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 2.424 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV014519.D

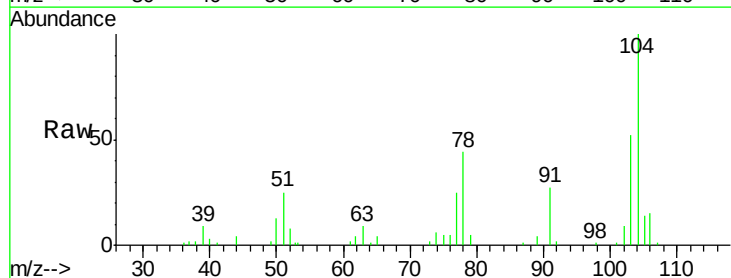
Acq: 06 Feb 2020 15:12

Tgt Ion:104 Resp: 20915

Ion Ratio Lower Upper

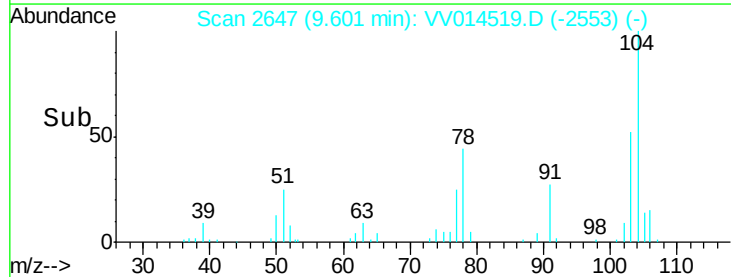
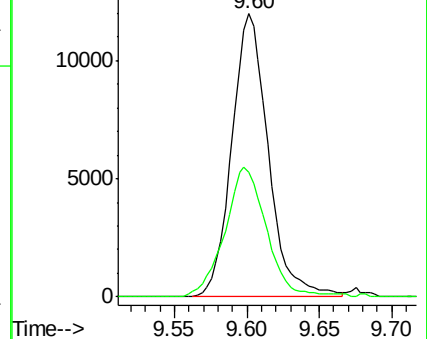
104 100

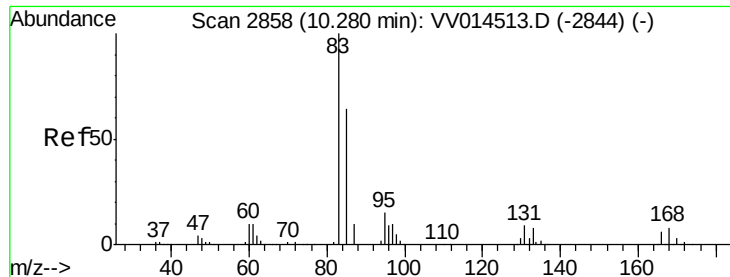
78 44.1 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.676 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

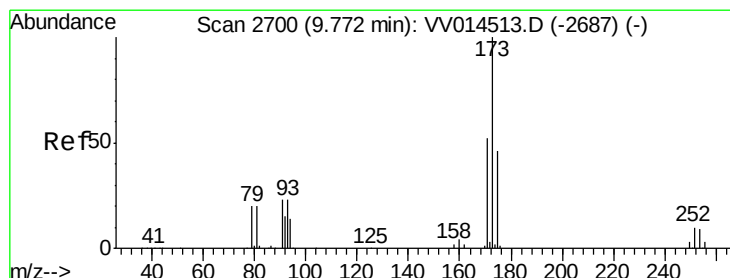
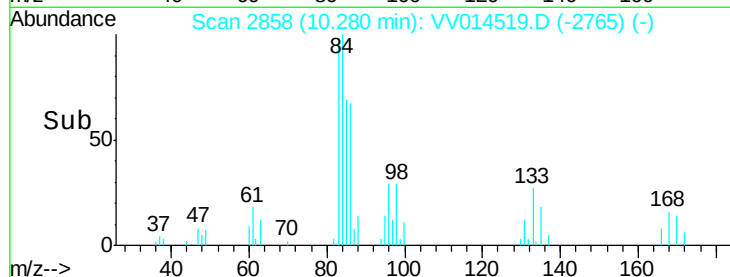
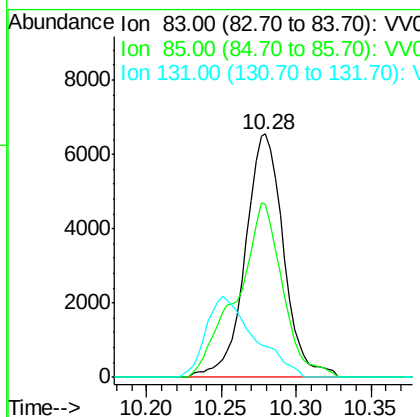
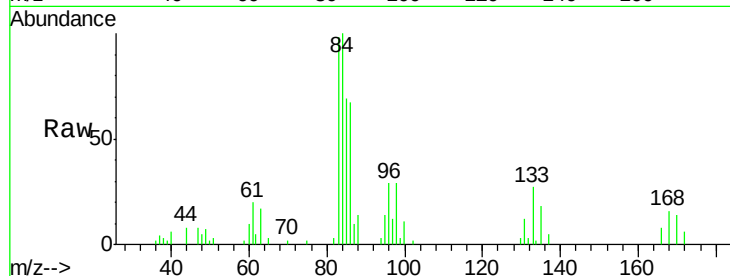
ClientSampleId :

MDL01

Tot Ion:	83	Resp:	11673
Ion	Ratio	Lower	Upper
83	100		
85	71.0	45.2	84.0
131	12.7	7.8	11.8#

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:49 PM



#59

Bromoform

Concen: 2.144 ug/L

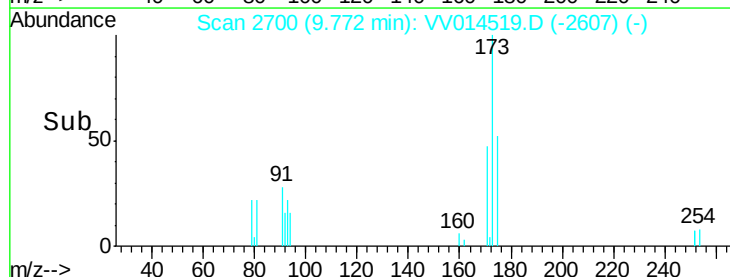
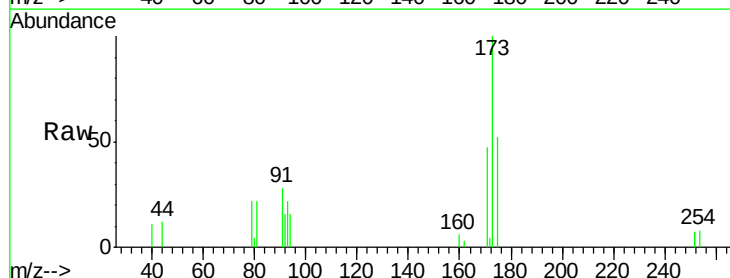
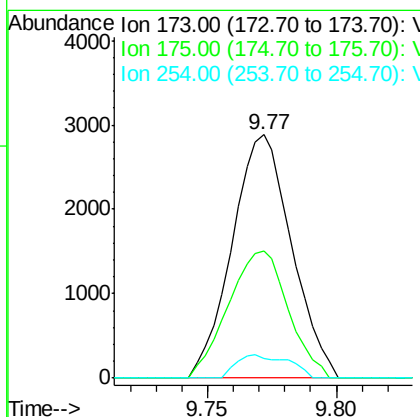
RT: 9.77 min Scan# 2700

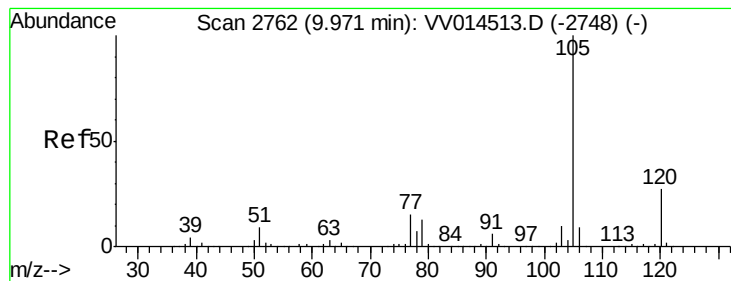
Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Tgt Ion:	173	Resp:	4641
Ion	Ratio	Lower	Upper
173	100		
175	52.4	37.8	56.8
254	5.5	7.0	10.6#





#60

Isopropylbenzene

Concen: 2.537 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

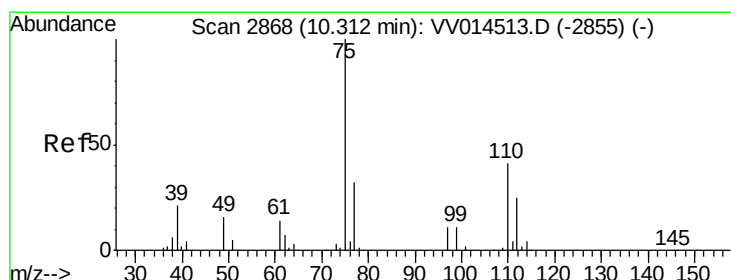
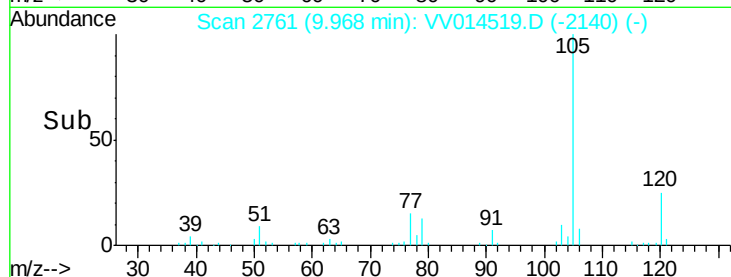
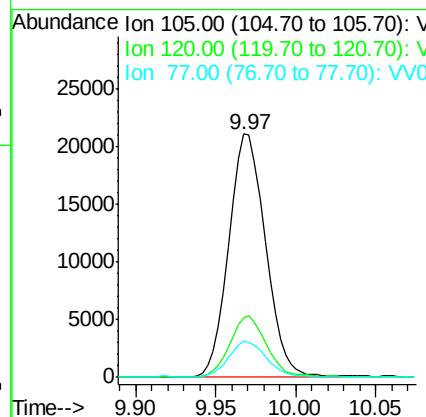
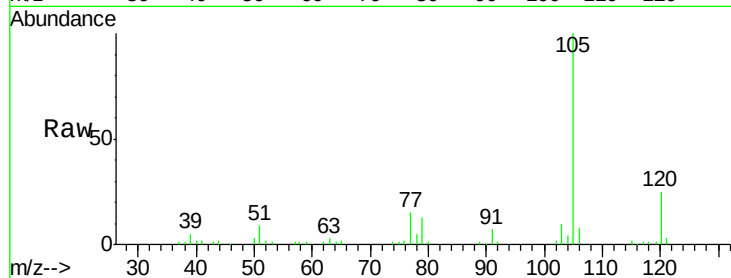
ClientSampled :

MDL01

Tot Ion:	105	Resp:	33298
Ion Ratio	Lower	Upper	
105	100		
120	25.0	21.5	32.3
77	15.0	12.2	18.4

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:49 PM



#61

1,2,3-Trichloropropane

Concen: 2.527 ug/L

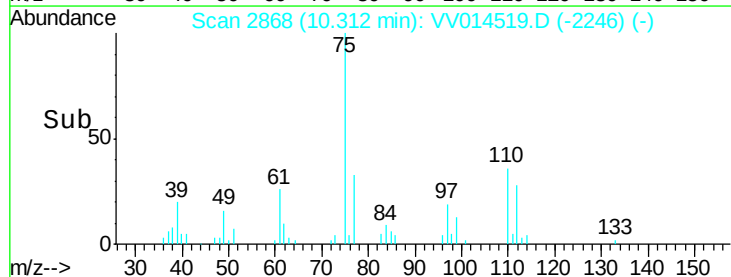
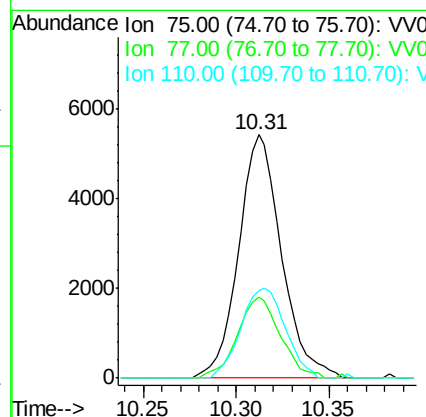
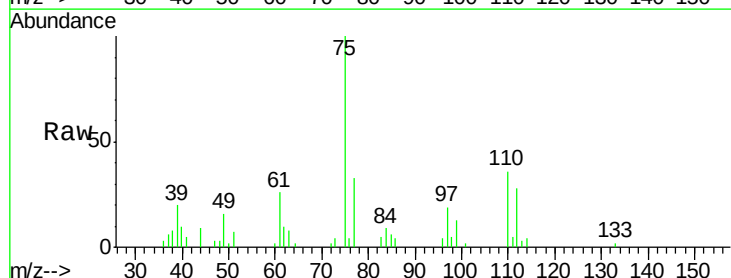
RT: 10.31 min Scan# 2868

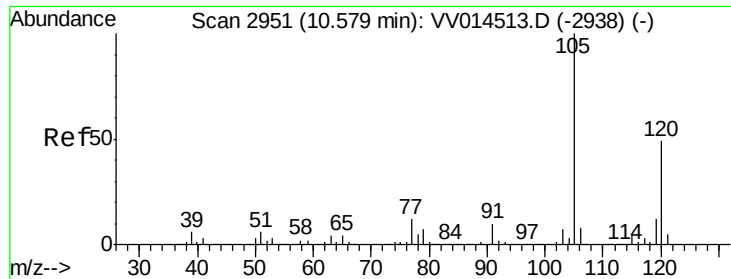
Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Tgt Ion:	75	Resp:	8685
Ion Ratio	Lower	Upper	
75	100		
77	33.1	25.8	38.8
110	38.3	32.4	48.6





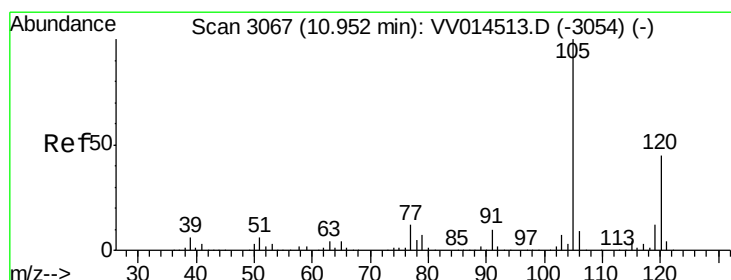
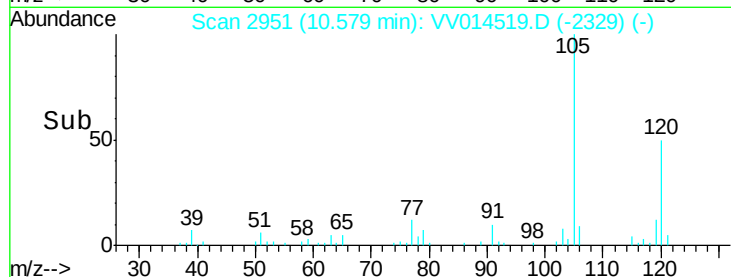
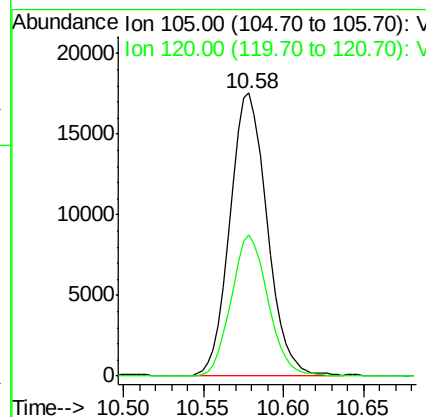
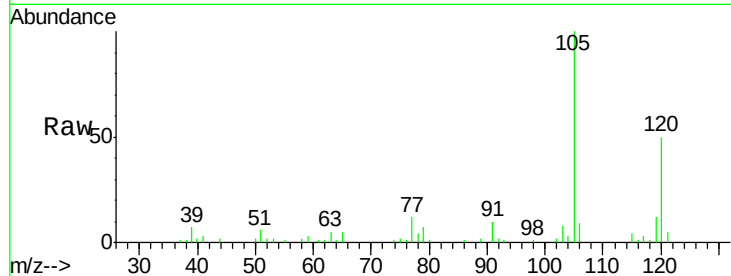
#62
 1,3,5-Trimethylbenzene
 Concen: 2.483 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion:105 Resp: 27898
 Ion Ratio Lower Upper
 105 100
 120 49.3 39.0 58.6

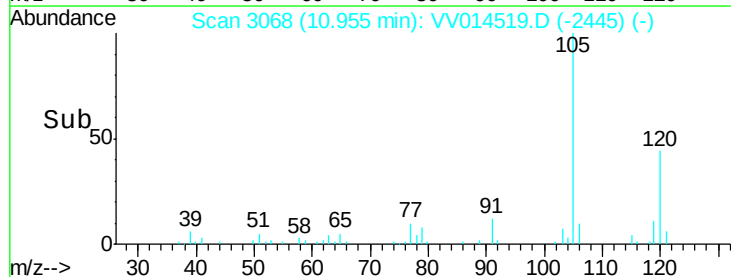
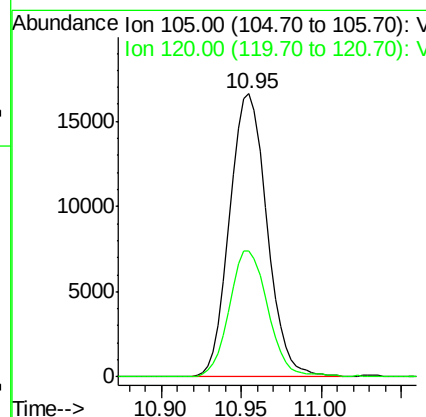
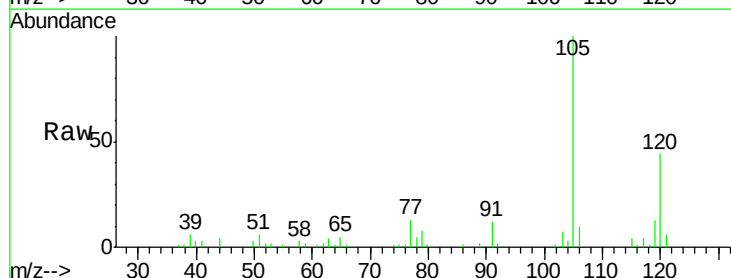
Manual Integrations
 APPROVED

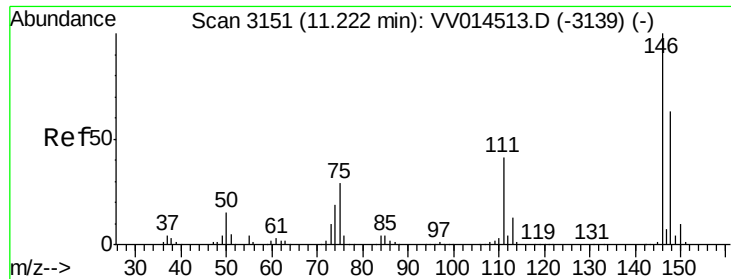
MMDadoda
 2/7/2020 1:23:49 PM



#63
 1,2,4-Trimethylbenzene
 Concen: 2.402 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion:105 Resp: 26607
 Ion Ratio Lower Upper
 105 100
 120 45.9 36.2 54.4





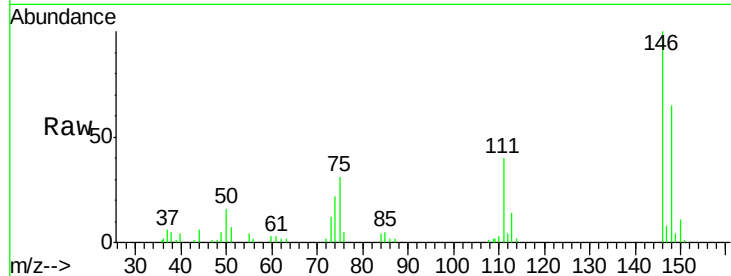
#64
 1,3-Dichlorobenzene
 Concen: 2.550 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

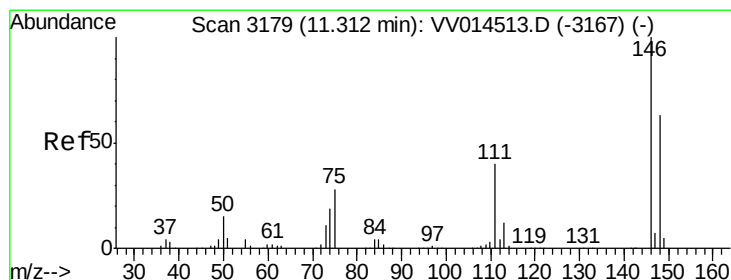
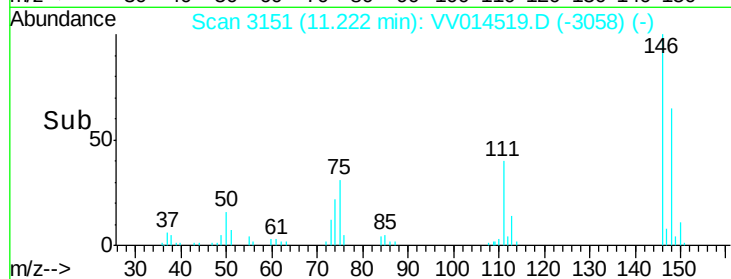
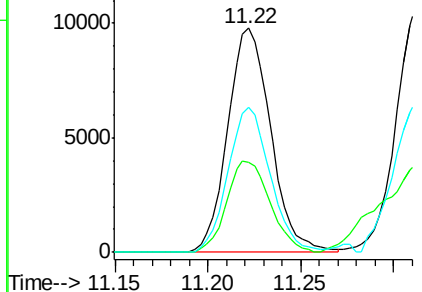
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	28.9	53.7
148	65.0	44.4	82.5

Manual Integrations
 APPROVED

MMDadoda
 2/7/2020 1:23:49 PM



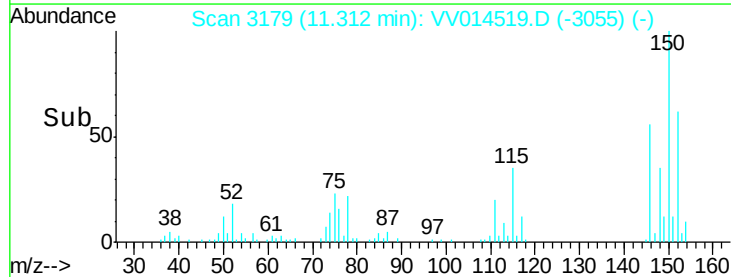
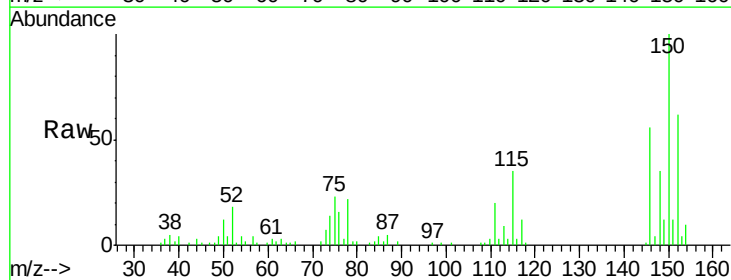
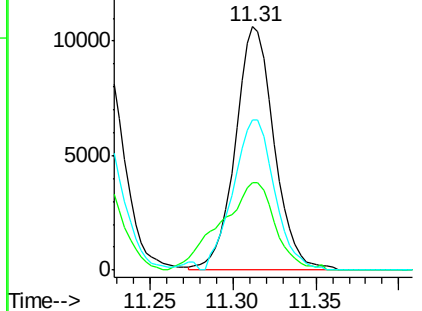
Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

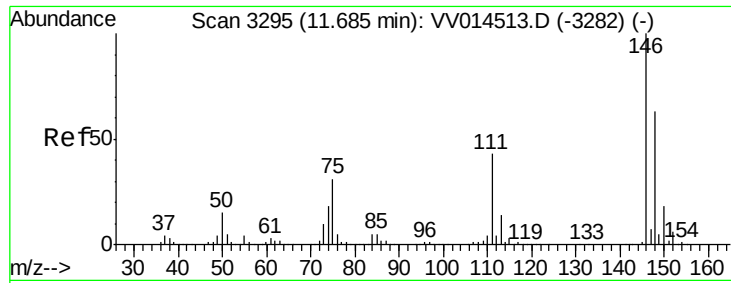


#65
 1,4-Dichlorobenzene
 Concen: 2.719 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	28.1	52.3
148	61.9	44.4	82.4

Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





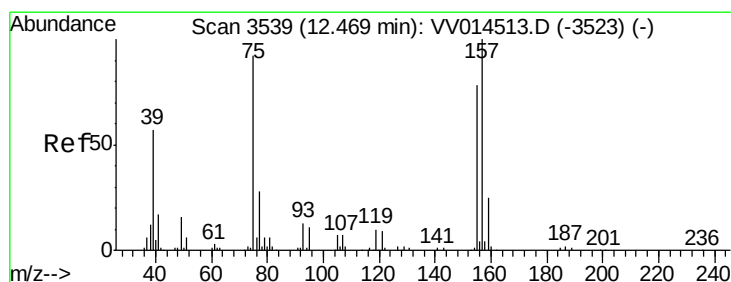
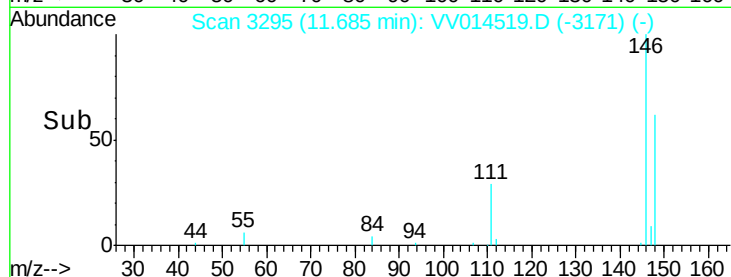
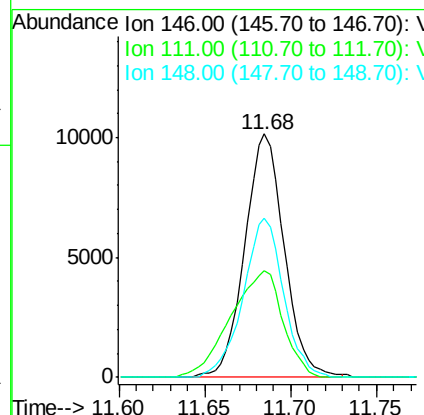
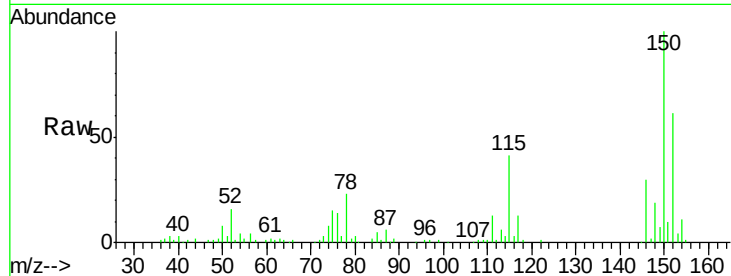
#67
 1,2-Dichlorobenzene
 Concen: 2.691 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	34.6	51.8
148	65.5	50.2	75.4

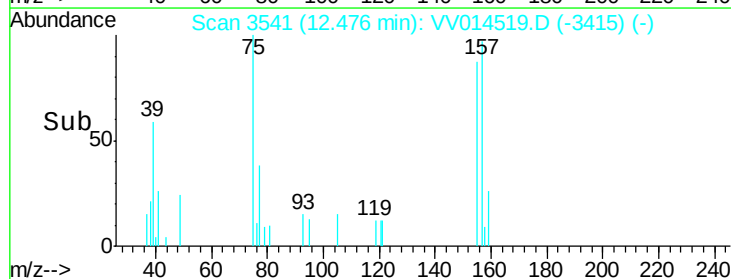
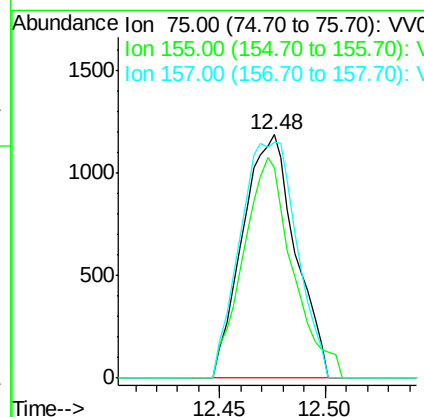
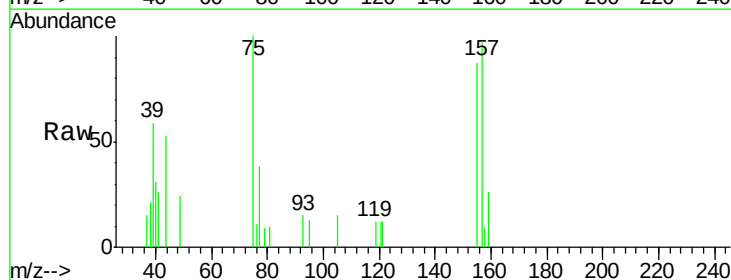
Manual Integrations
 APPROVED

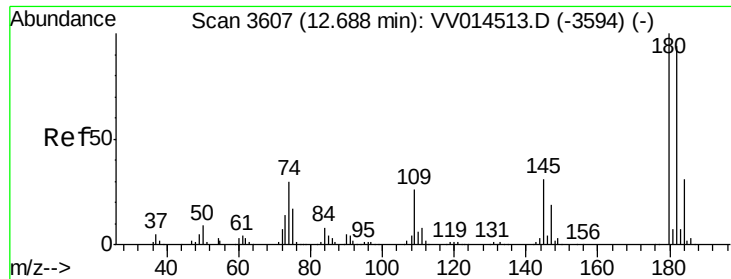
MMDadoda
 2/7/2020 1:23:49 PM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.136 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.01 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.6	68.3	102.5
157	97.0	87.1	130.7





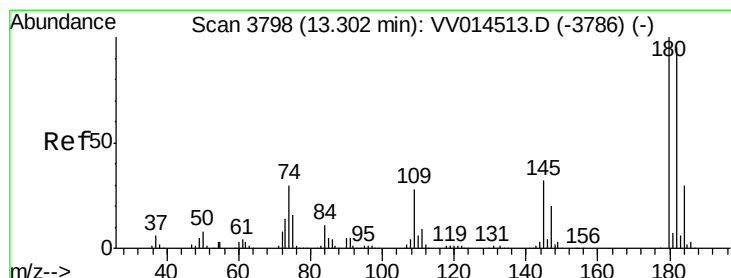
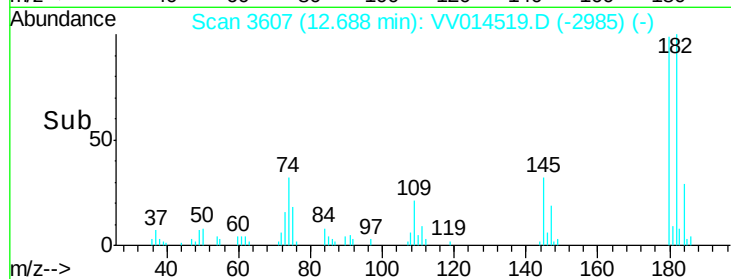
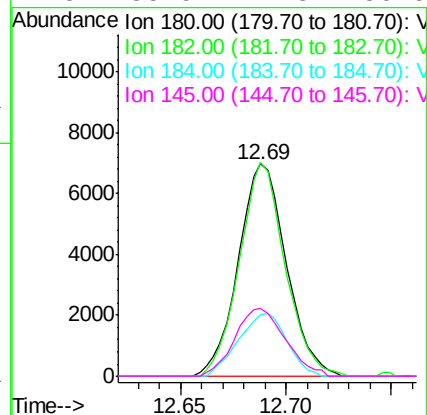
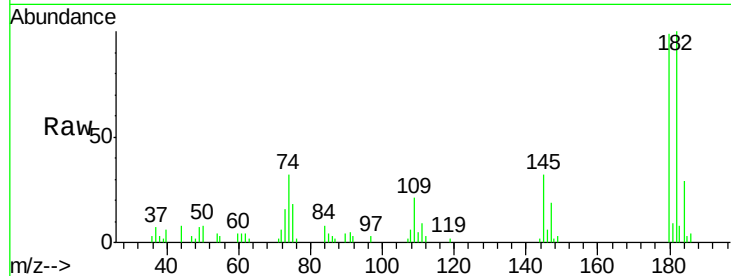
#69
 1,3,5-Trichlorobenzene
 Concen: 2.529 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.0	112.4
184	29.7	24.2	36.2
145	33.5	24.3	36.5

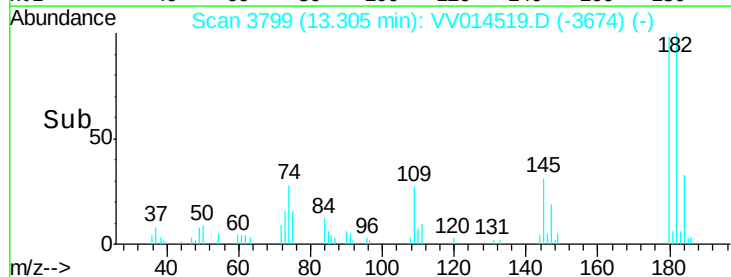
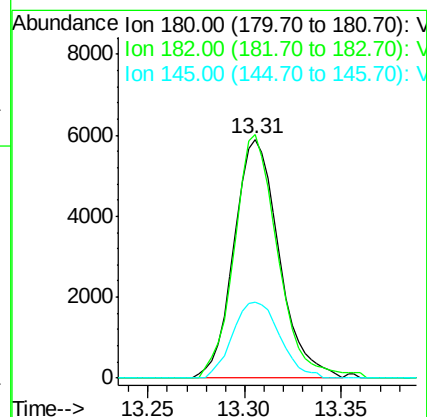
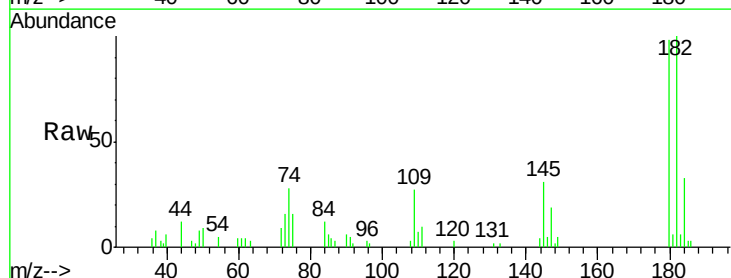
Manual Integrations
 APPROVED

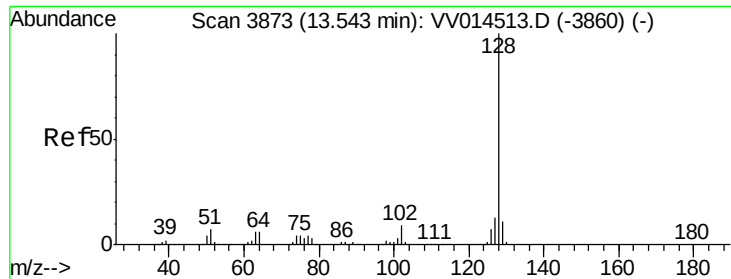
MMDadoda
 2/7/2020 1:23:49 PM



#70
 1,2,4-trichlorobenzene
 Concen: 2.389 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.8	76.0	114.0
145	33.3	25.3	37.9





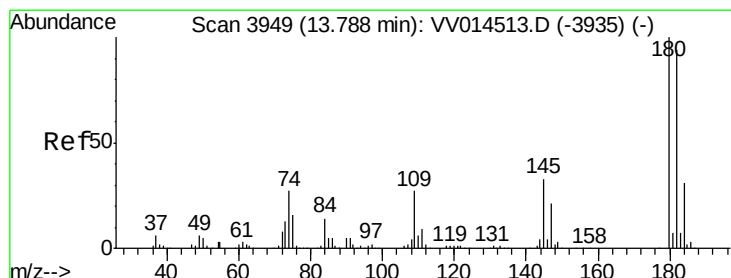
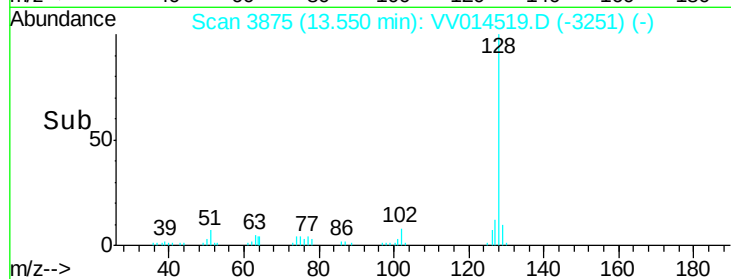
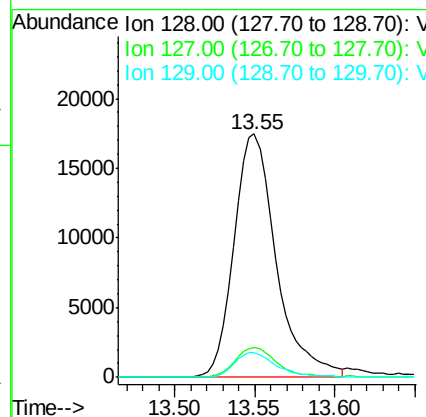
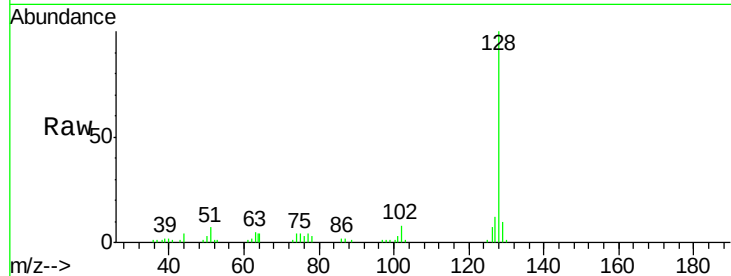
#71
Naphthalene
Concen: 2.403 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.01 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.4	10.3	15.5
129	9.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:23:49 PM



#72
1,2,3-Trichlorobenzene
Concen: 2.321 ug/L
RT: 13.79 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.3	75.2	112.8
145	34.0	27.1	40.7

