

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

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 11 04:45:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 04:43:03 2020
 Response via : Initial Calibration

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

System Monitoring Compounds

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

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	6888	2.541 ug/L	96
3) Chloromethane	1.26	50	6177	2.251 ug/L	92
5) Vinyl chloride	1.33	62	4424	2.105 ug/L #	58
6) Bromomethane	1.54	94	2028	2.098 ug/L	96
8) Chloroethane	1.60	64	2329	2.230 ug/L	86
9) Trichlorofluoromethane	1.77	101	7067	2.496 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4078	2.999 ug/L #	81
12) 1,1-Dichloroethene	2.14	96	3752	2.885 ug/L #	1
13) Acetone	2.19	43	7560	6.375 ug/L	99
14) Carbon disulfide	2.32	76	14059	2.227 ug/L	100
15) Methyl Acetate	2.46	43	5202	2.281 ug/L	93
16) Methylene chloride	2.54	84	7085	2.869 ug/L	91
17) trans-1,2-Dichloroethene	2.79	96	5244	2.289 ug/L	92
18) Methyl tert-butyl Ether	2.80	73	17908	2.468 ug/L #	92
19) 1,1-Dichloroethane	3.23	63	10337	2.523 ug/L	95
20) cis-1,2-Dichloroethene	3.96	96	6344	2.461 ug/L	99
23) Bromochloromethane	4.30	128	2843	2.329 ug/L	97

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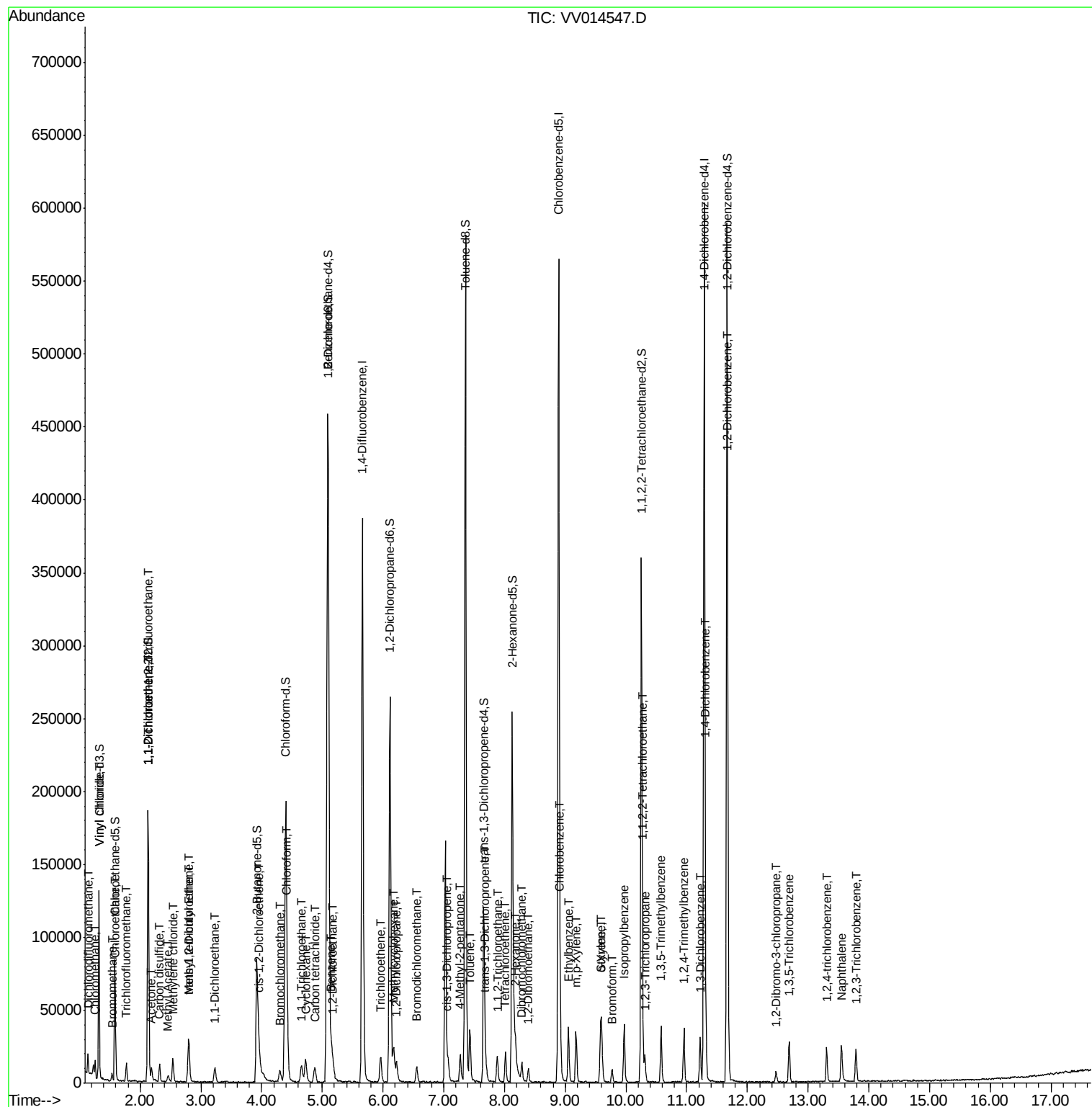
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.43	83	13781	3.308	ug/L	99
27) 1,2-Dichloroethane	5.18	62	7441	2.397	ug/L	95
29) Cyclohexane	4.72	56	8957	2.309	ug/L	95
30) 1,1,1-Trichloroethane	4.66	97	8665	2.407	ug/L	95
31) Carbon tetrachloride	4.87	117	7965	2.508	ug/L	100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

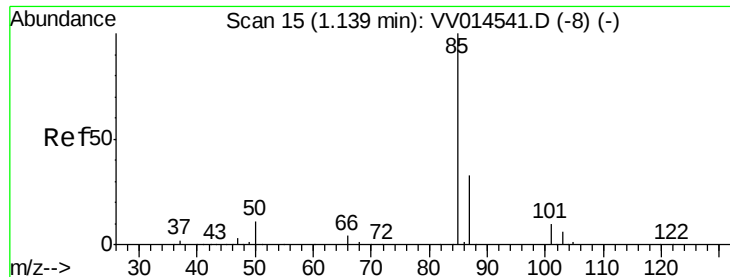
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.541 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

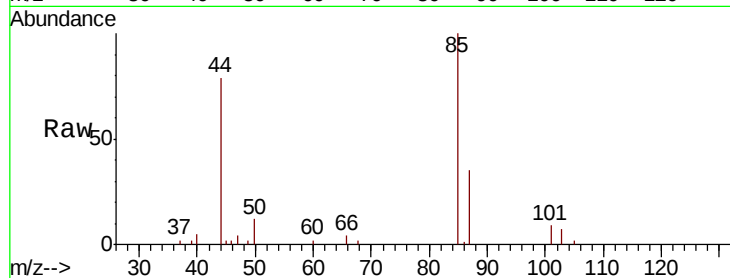
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 6888

Ion Ratio Lower Upper

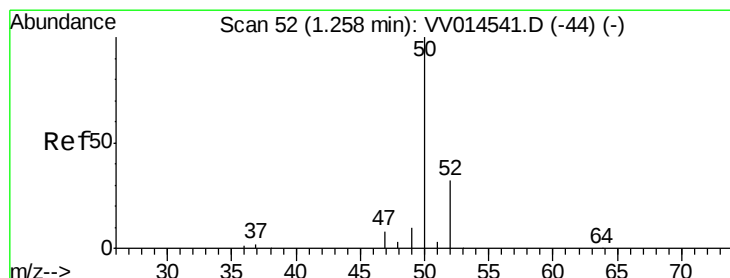
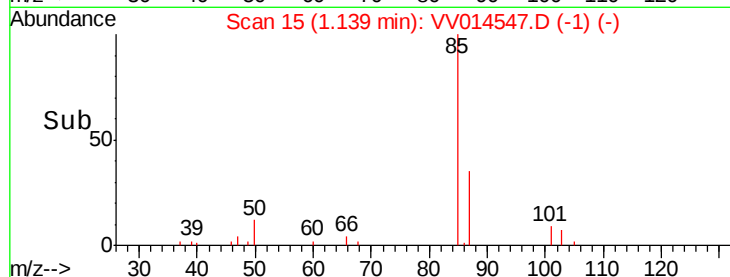
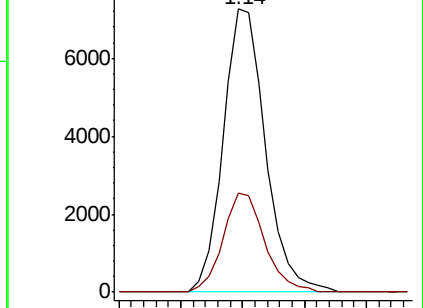
85 100

87 34.5 25.7 38.5



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

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



#3

Chloromethane

Concen: 2.251 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014547.D

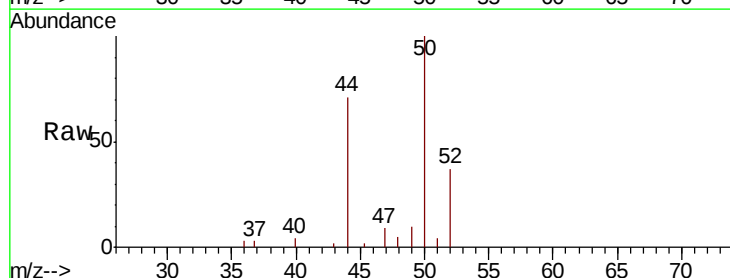
Acq: 10 Feb 2020 13:22

Tgt Ion: 50 Resp: 6177

Ion Ratio Lower Upper

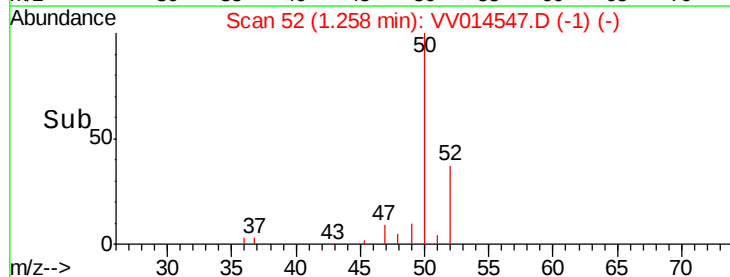
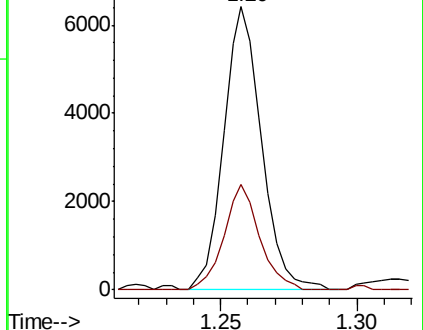
50 100

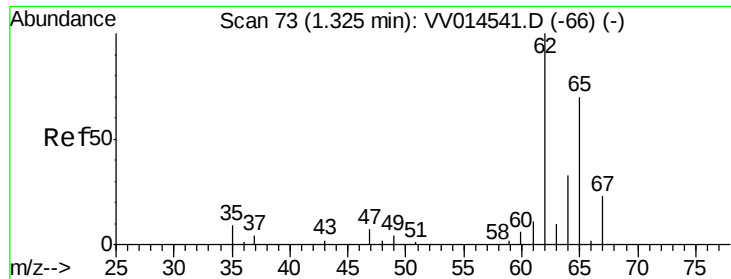
52 37.3 22.9 42.5



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

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





#5

Vinyl chloride

Concen: 2.105 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

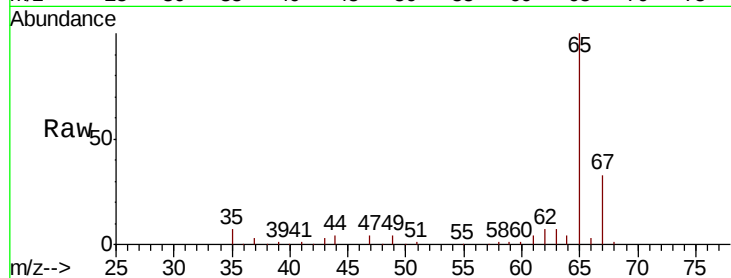
ClientSampled :

Tot Ion: 62 Resp: 4424

Ion Ratio Lower Upper

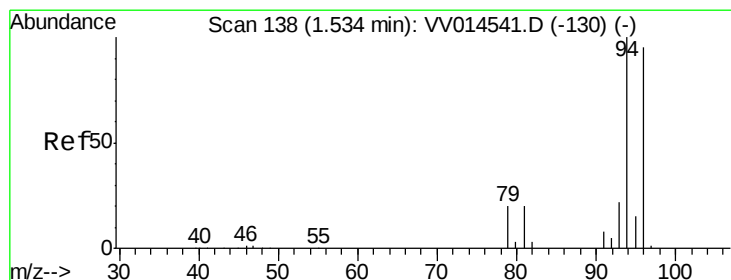
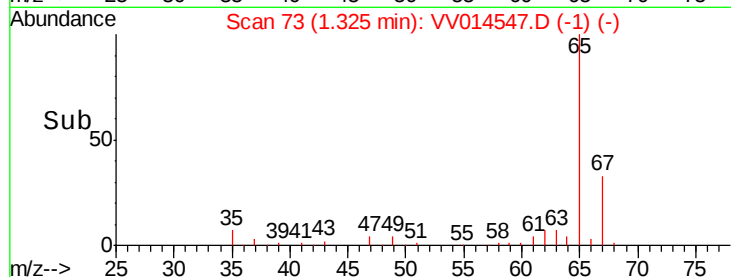
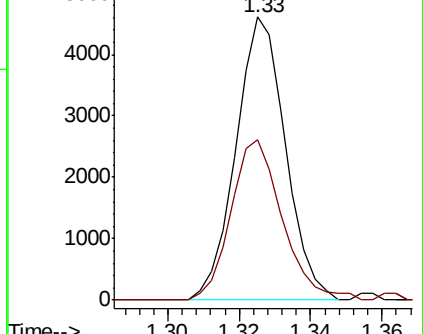
62 100

64 56.5 23.1 42.9#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.098 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014547.D

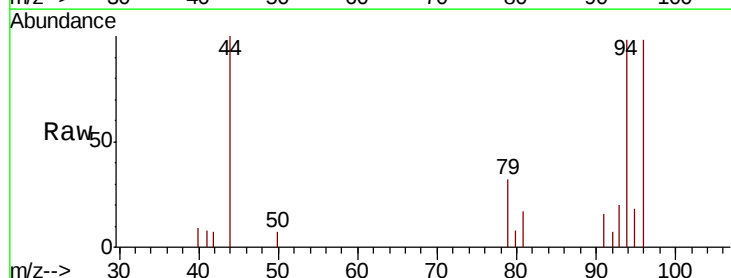
Acq: 10 Feb 2020 13:22

Tgt Ion: 94 Resp: 2028

Ion Ratio Lower Upper

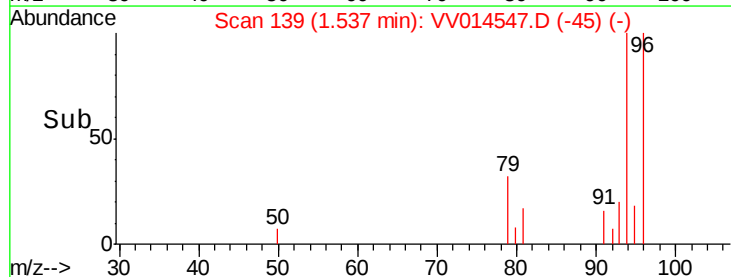
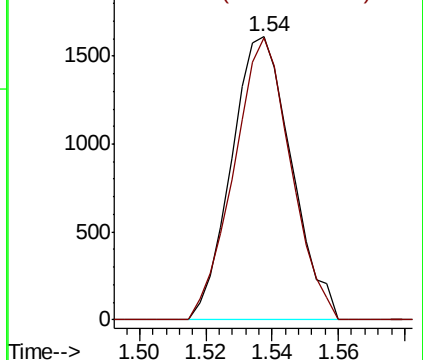
94 100

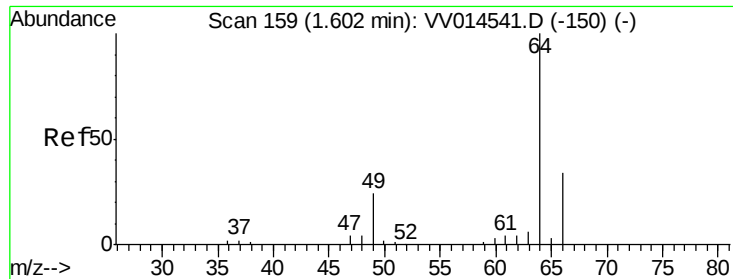
96 99.8 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.230 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

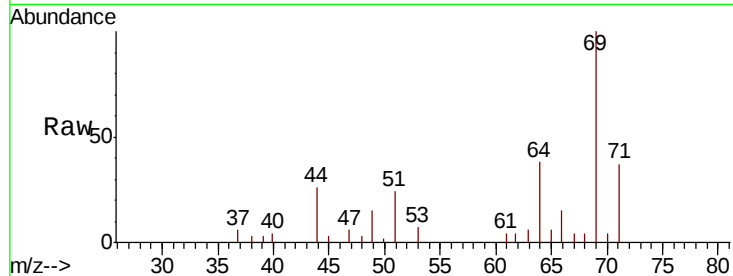
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 2329

Ion Ratio Lower Upper

64 100

66 40.0 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VV014541.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014541.D (-150) (-)

1.60

1500

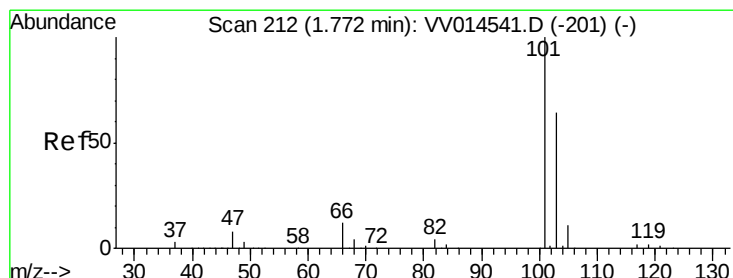
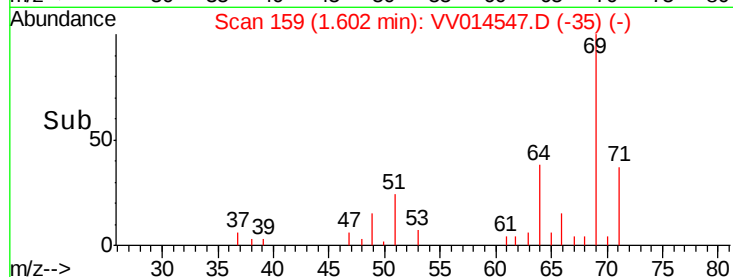
1000

500

0

1.56 1.58 1.60 1.62 1.64

Time-->



#9

Trichlorofluoromethane

Concen: 2.496 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014547.D

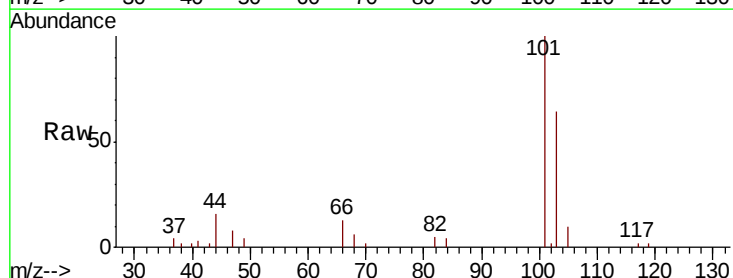
Acq: 10 Feb 2020 13:22

Tgt Ion: 101 Resp: 7067

Ion Ratio Lower Upper

101 100

103 65.0 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV014541.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014541.D (-201) (-)

1.77

6000

5000

4000

3000

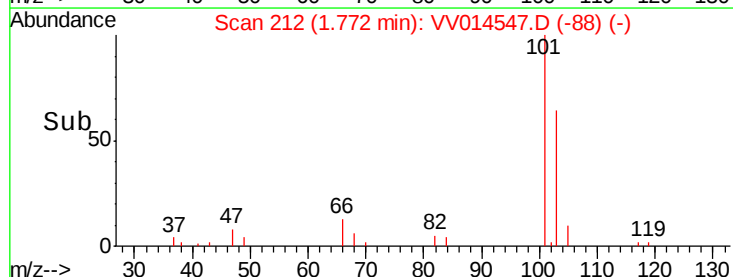
2000

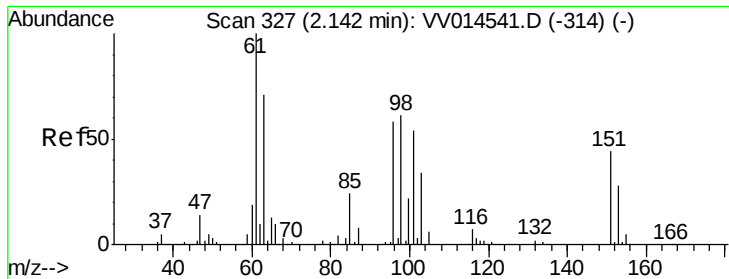
1000

0

1.75 1.80

Time-->





#10

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

Concen: 2.999 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

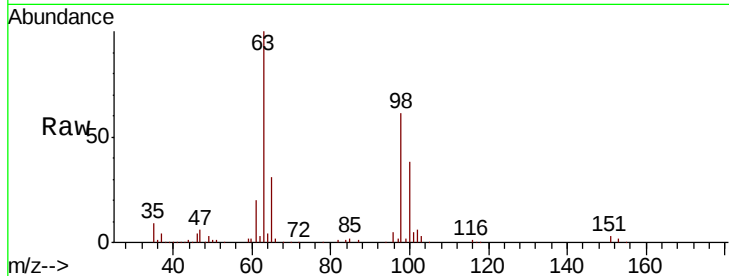
Tot Ion:101 Resp: 4078

Ion Ratio Lower Upper

101 100

85 38.9 35.0 52.6

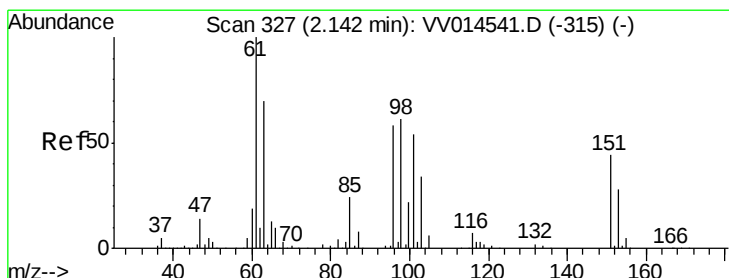
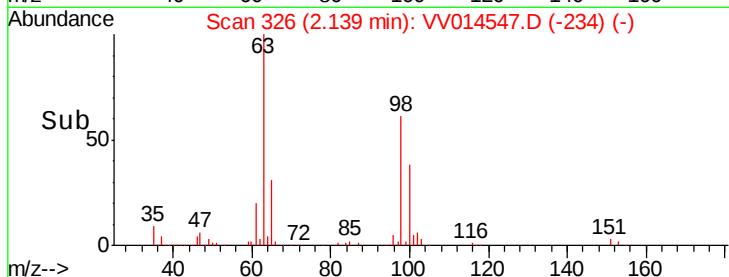
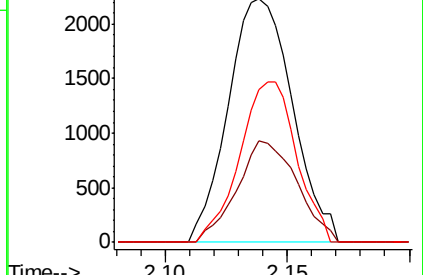
151 58.1 64.4 96.6#



Abundance Ion 101.00 (100.70 to 101.70): VV014541.D (-314) (-)

Ion 85.00 (84.70 to 85.70): VV014541.D (-314) (-)

Ion 151.00 (150.70 to 151.70): VV014541.D (-314) (-)



#12

1,1-Dichloroethene

Concen: 2.885 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

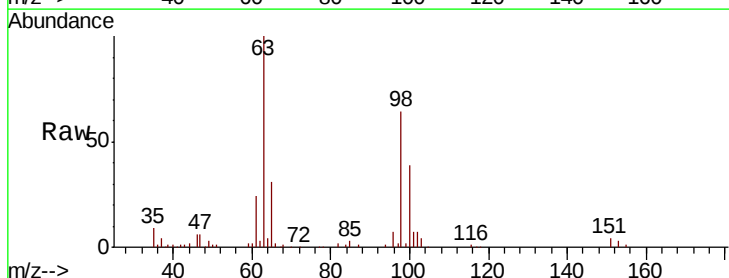
Tgt Ion: 96 Resp: 3752

Ion Ratio Lower Upper

96 100

61 336.6 125.0 232.2#

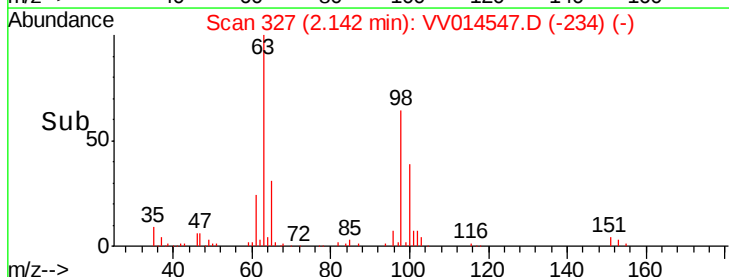
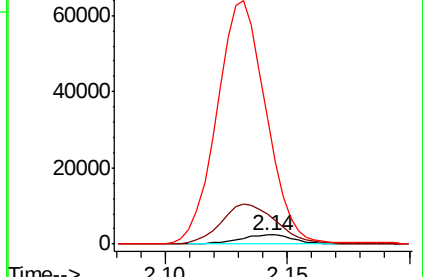
63 1388.4 101.6 188.6#

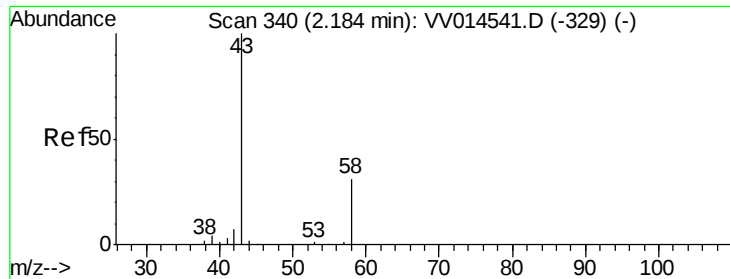


Abundance Ion 96.00 (95.70 to 96.70): VV014547.D (-234) (-)

Ion 61.00 (60.70 to 61.70): VV014547.D (-234) (-)

Ion 63.00 (62.70 to 63.70): VV014547.D (-234) (-)





#13

Acetone

Concen: 6.375 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

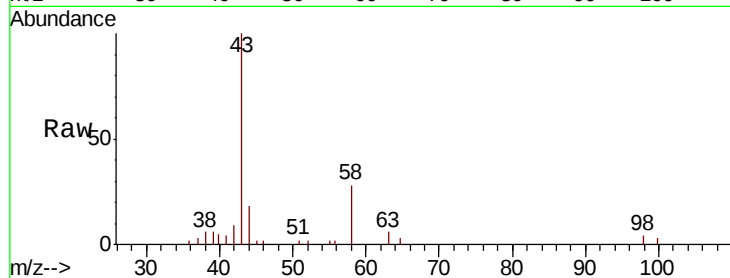
ClientSampleId :

Tot Ion: 43 Resp: 7560

Ion Ratio Lower Upper

43 100

58 31.7 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VV014541.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV014541.D (-329) (-)

2.19

6000

5000

4000

3000

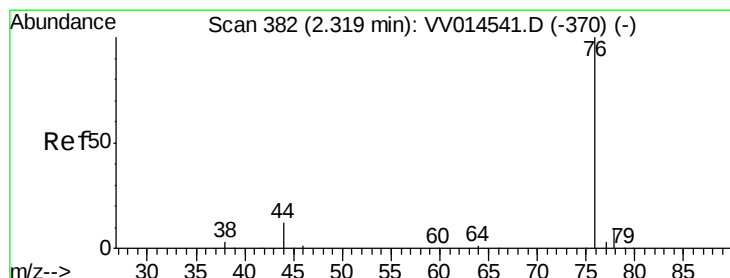
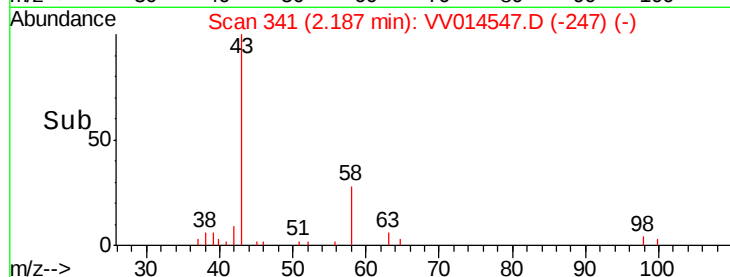
2000

1000

0

Time-->

2.15 2.20



#14

Carbon disulfide

Concen: 2.227 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014547.D

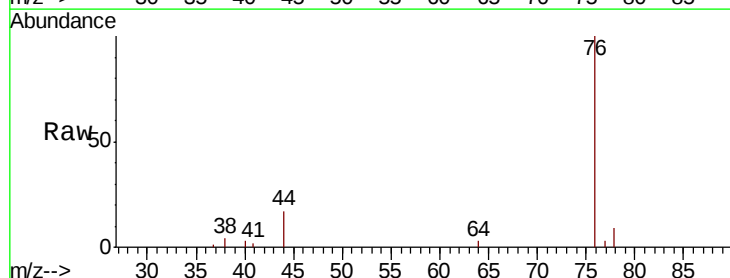
Acq: 10 Feb 2020 13:22

Tgt Ion: 76 Resp: 14059

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV014541.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV014541.D (-370) (-)

2.32

10000

8000

6000

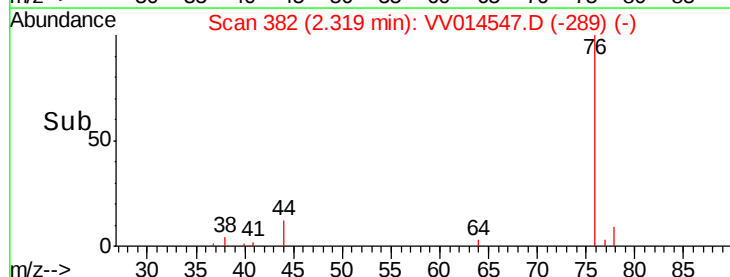
4000

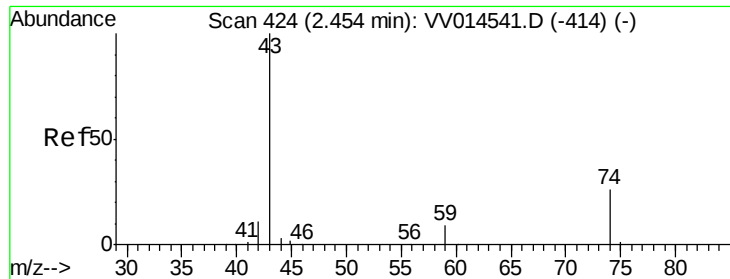
2000

0

Time-->

2.30 2.35

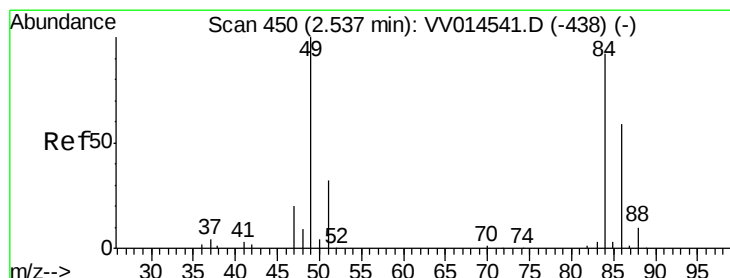
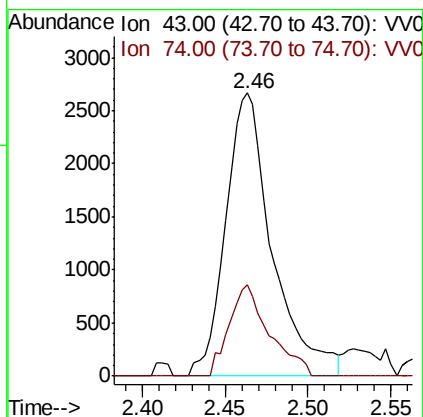
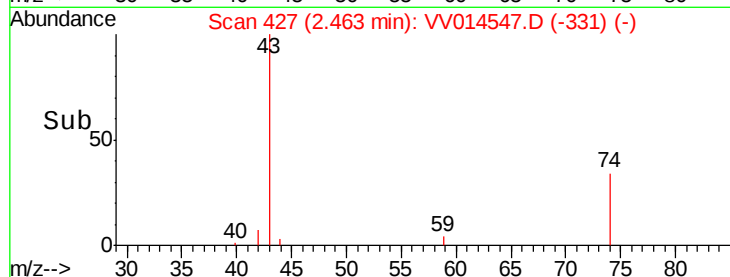
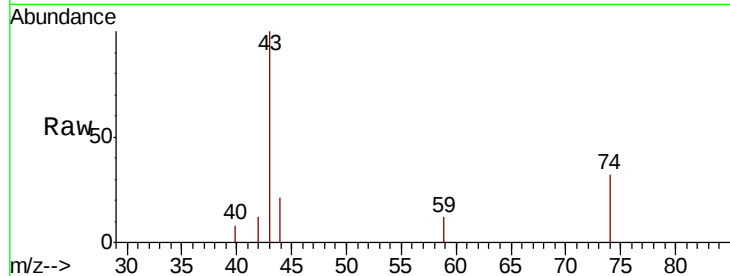




#15
Methvl Acetate
Concen: 2.281 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

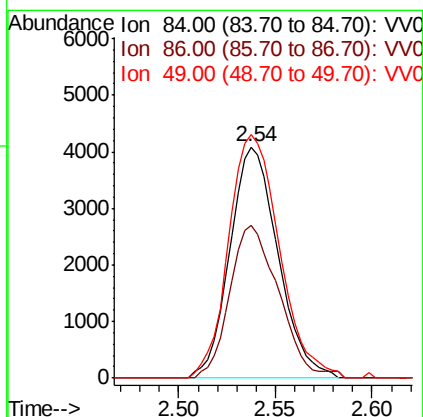
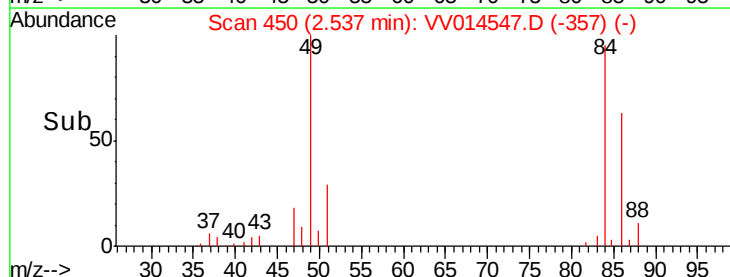
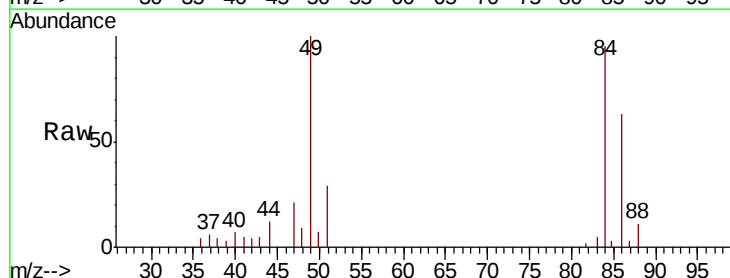
Instrument :
MSVOA_V
ClientSampleId :

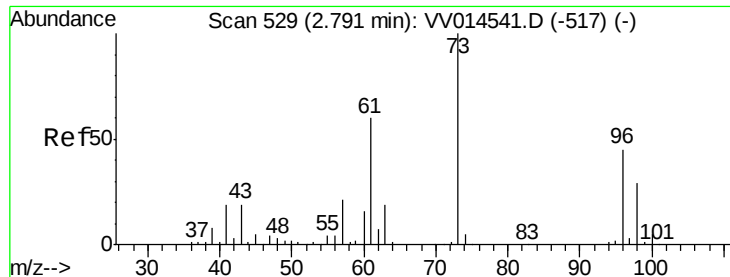
Tot Ion: 43 Resp: 5202
Ion Ratio Lower Upper
43 100
74 27.9 19.4 29.0



#16
Methylene chloride
Concen: 2.869 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion: 84 Resp: 7085
Ion Ratio Lower Upper
84 100
86 66.1 44.6 82.8
49 105.4 83.2 154.4





#17

trans-1,2-Dichloroethene

Concen: 2.289 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampled :

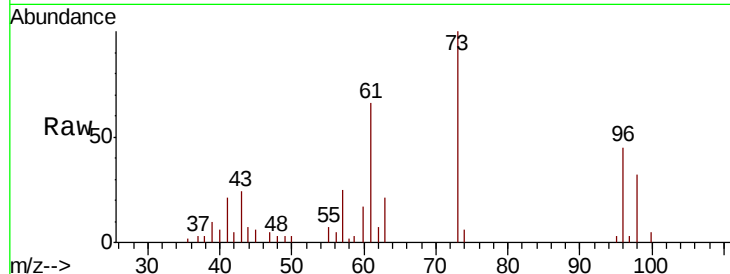
Tot Ion: 96 Resp: 5244

Ion Ratio Lower Upper

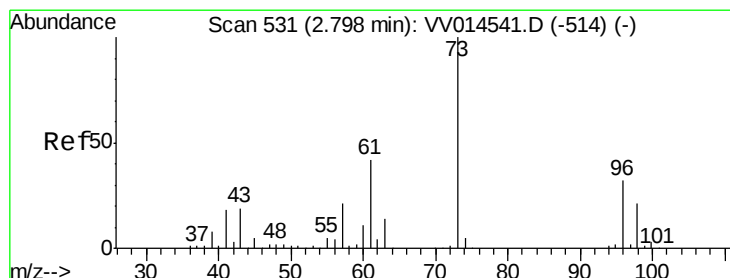
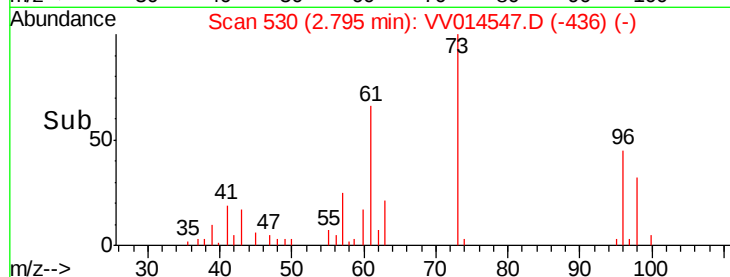
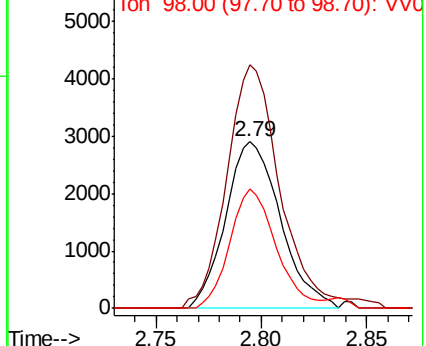
96 100

61 146.0 95.8 178.0

98 71.9 45.1 83.7



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 2.468 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

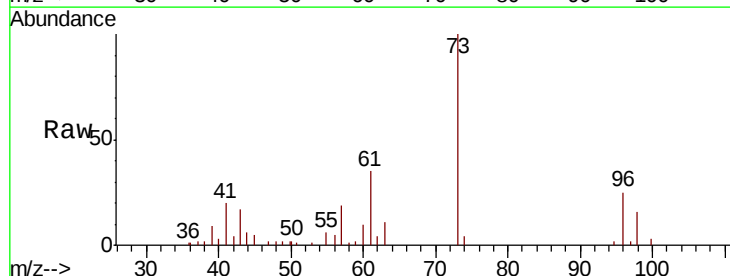
Tgt Ion: 73 Resp: 17908

Ion Ratio Lower Upper

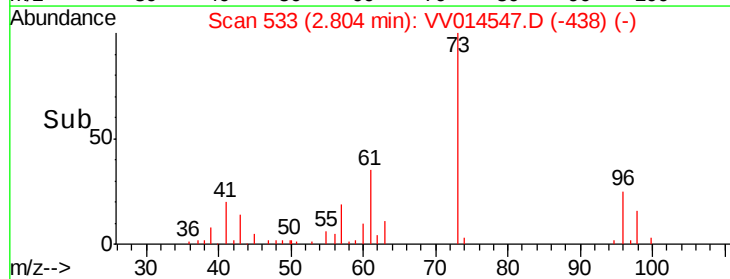
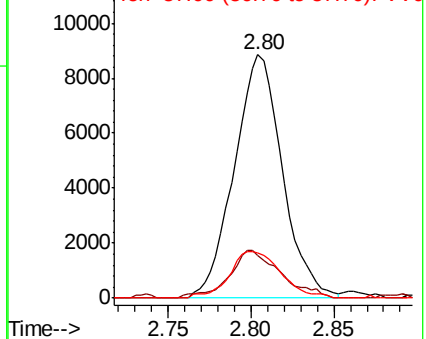
73 100

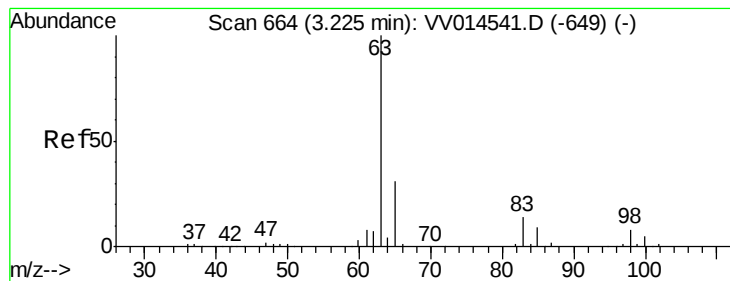
43 20.8 14.9 22.3

57 16.8 17.5 26.3#



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 2.523 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

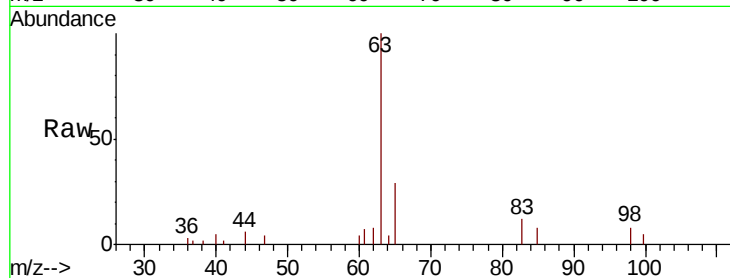
Tot Ion: 63 Resp: 10337

Ion Ratio Lower Upper

63 100

65 29.3 22.5 41.7

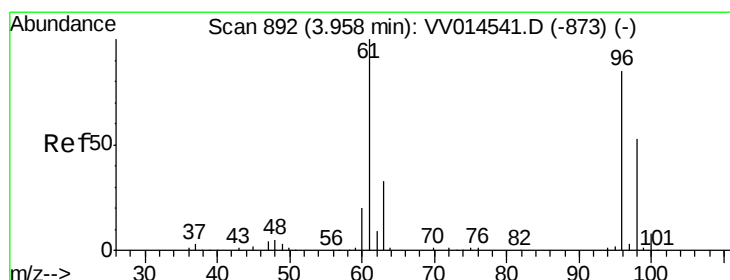
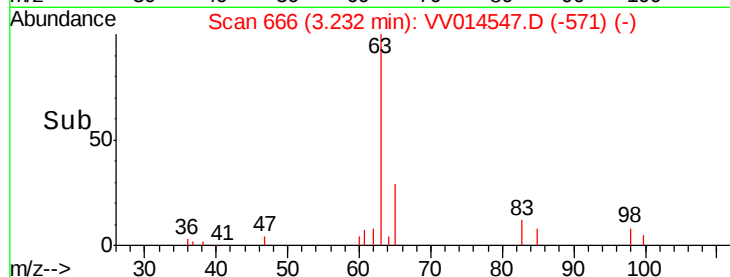
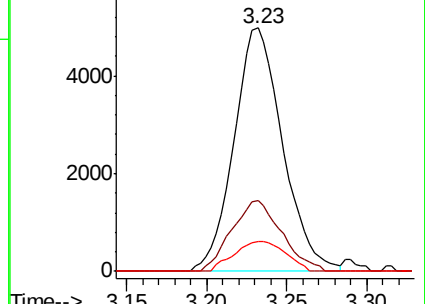
83 12.2 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 2.461 ug/L

RT: 3.96 min Scan# 894

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

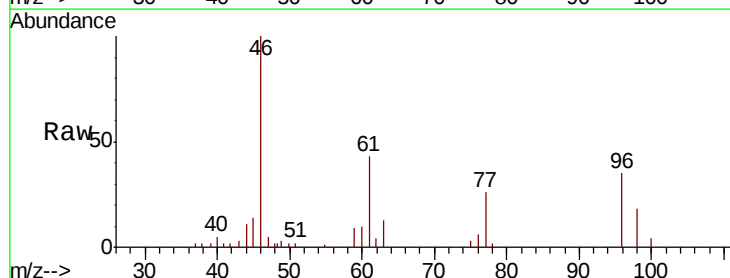
Tgt Ion: 96 Resp: 6344

Ion Ratio Lower Upper

96 100

61 123.3 85.2 158.2

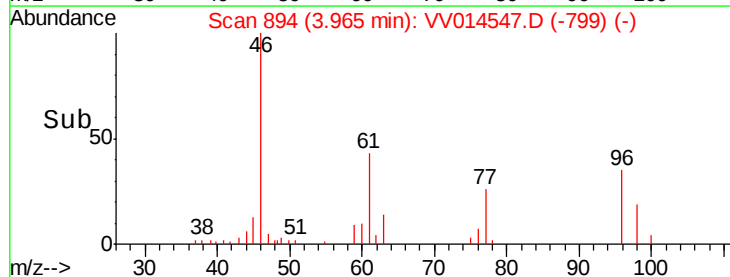
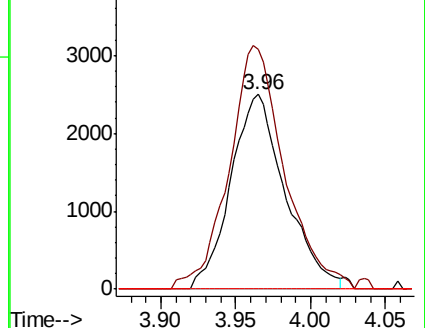
68 0.0 0.0 0.0

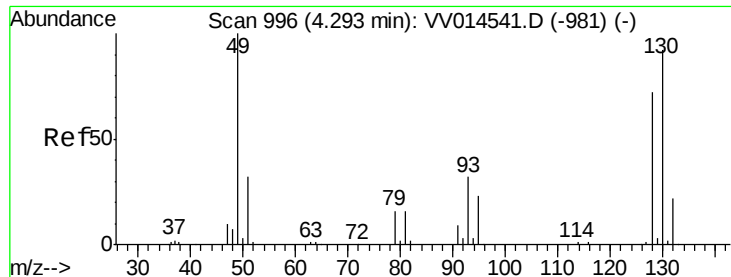


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0

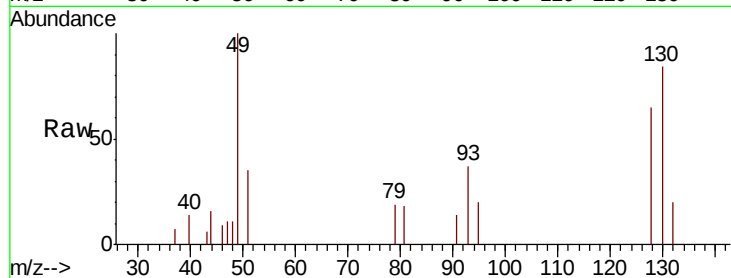




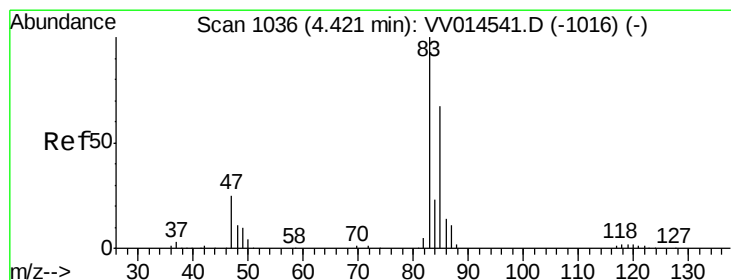
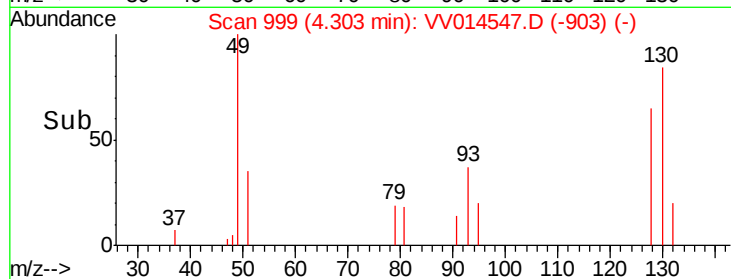
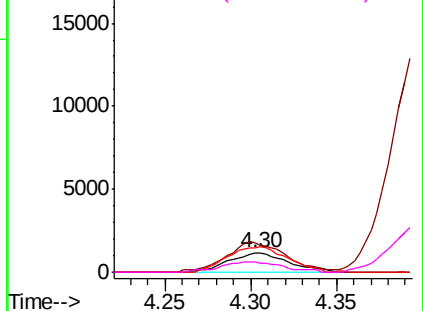
#23
 Bromochloromethane
 Concen: 2.329 ug/L
 RT: 4.30 min Scan# 999
 Delta R.T. 0.01 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	128	Resp:	2843
Ion	Ratio	Lower	Upper
128	100		
49	152.9	110.1	204.5
130	127.9	88.5	164.4
51	54.2	39.4	59.0

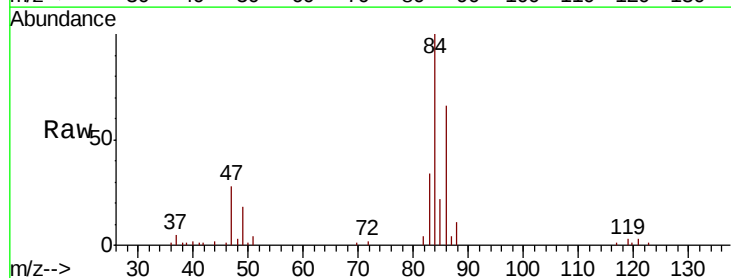


Abundance Ion 128.00 (127.70 to 128.70): VV014547.D (-903) (-)
 Ion 49.00 (48.70 to 49.70): VV014547.D (-903) (-)
 Ion 130.00 (129.70 to 130.70): VV014547.D (-903) (-)
 Ion 51.00 (50.70 to 51.70): VV014547.D (-903) (-)

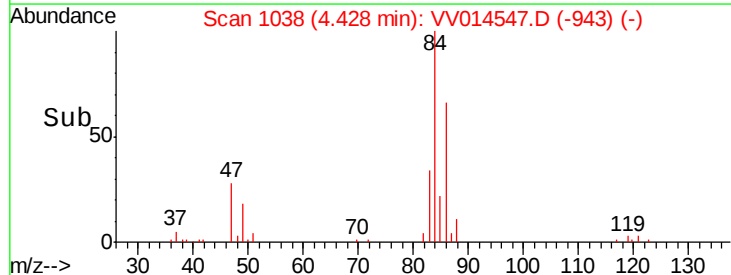
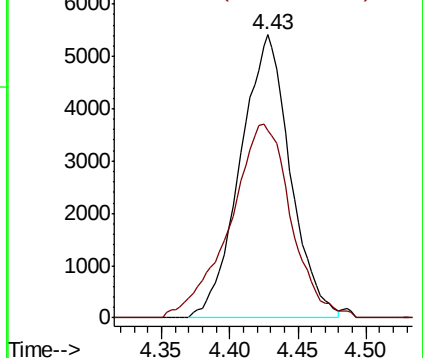


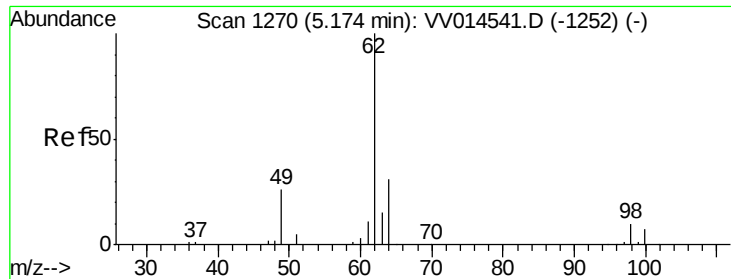
#25
 Chloroform
 Concen: 3.308 ug/L
 RT: 4.43 min Scan# 1038
 Delta R.T. 0.01 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

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



Abundance Ion 83.00 (82.70 to 83.70): VV014547.D (-943) (-)
 Ion 85.00 (84.70 to 85.70): VV014547.D (-943) (-)

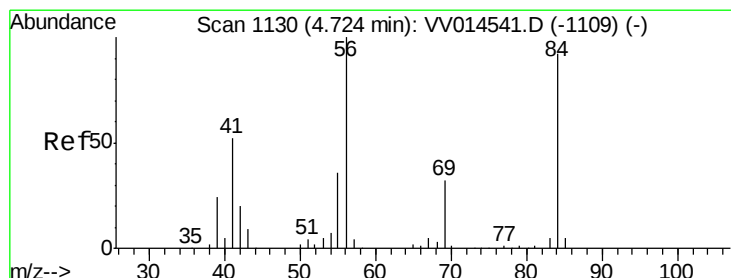
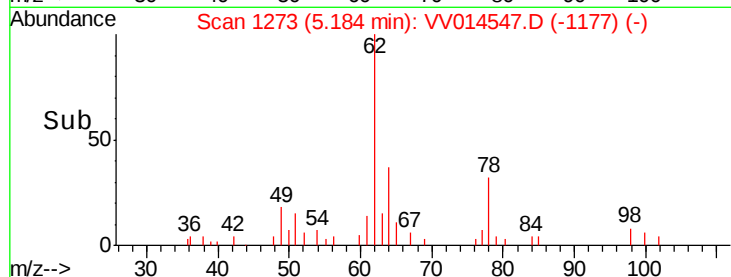
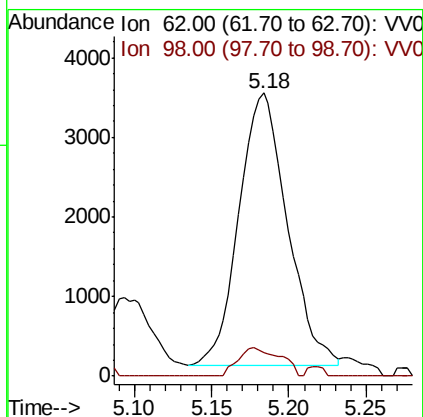
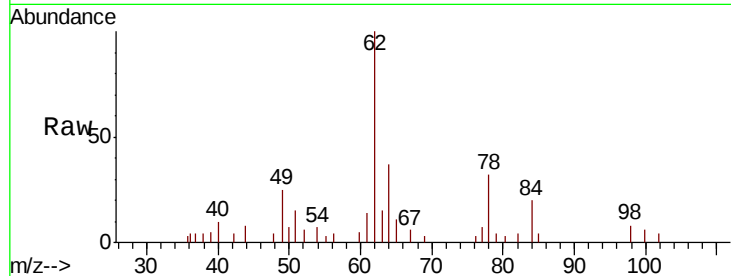




#27
 1,2-Dichloroethane
 Concen: 2.397 ug/L
 RT: 5.18 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

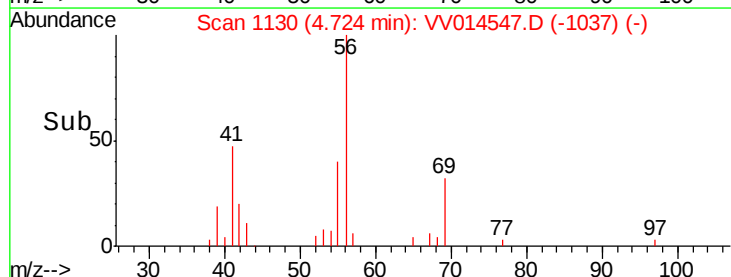
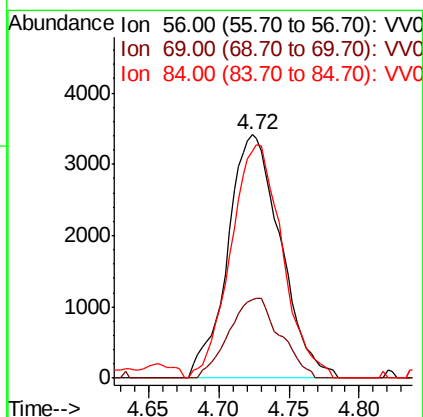
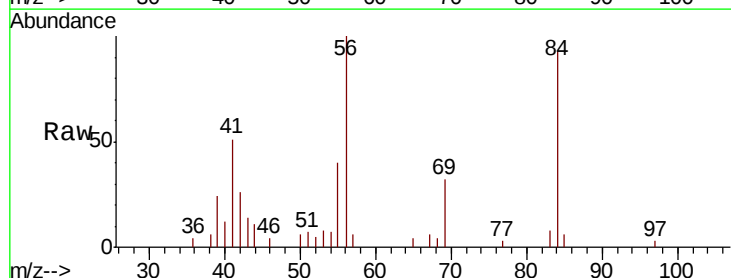
Instrument :
 MSVOA_V
 ClientSampleId :

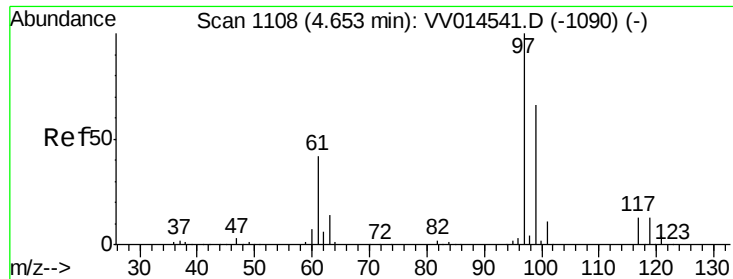
Tot Ion: 62 Resp: 7441
 Ion Ratio Lower Upper
 62 100
 98 8.4 8.2 12.4



#29
 Cyclohexane
 Concen: 2.309 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

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

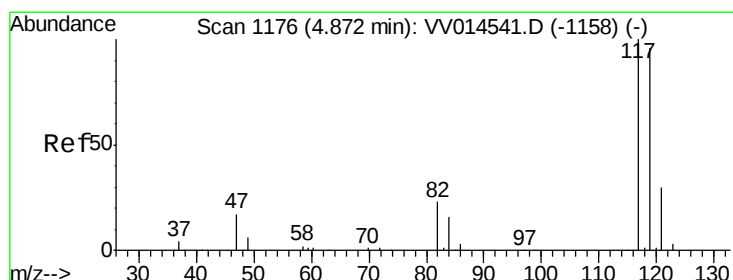
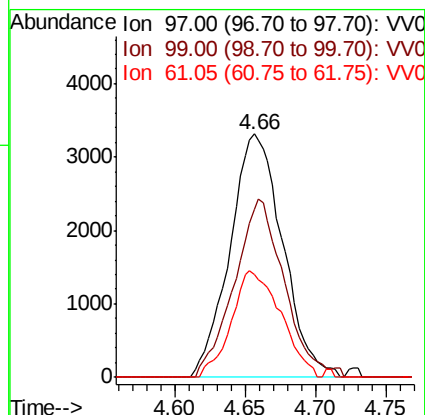
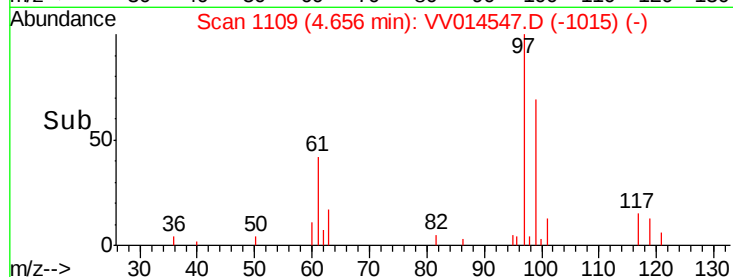
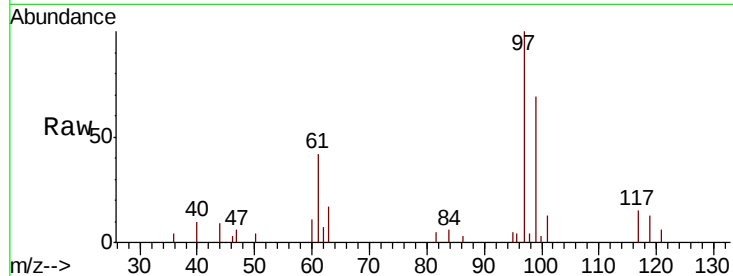




#30
 1,1,1-Trichloroethane
 Concen: 2.407 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

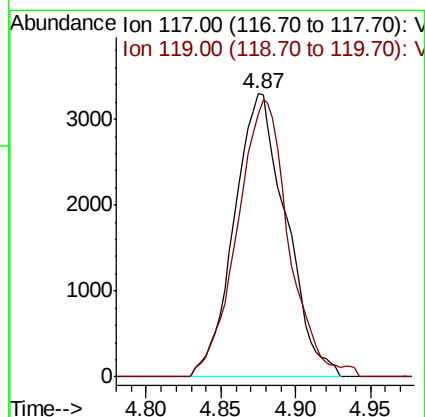
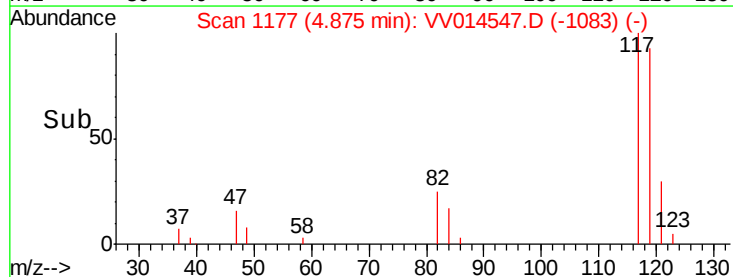
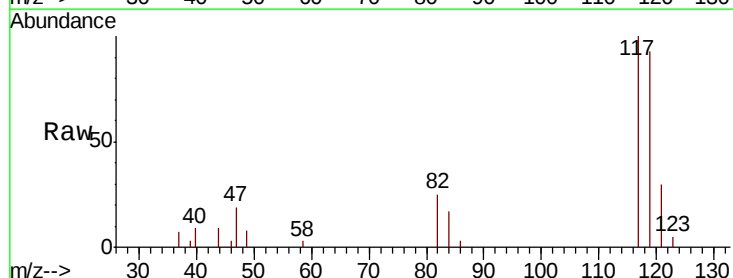
Instrument :
 MSVOA_V
 ClientSampleId :

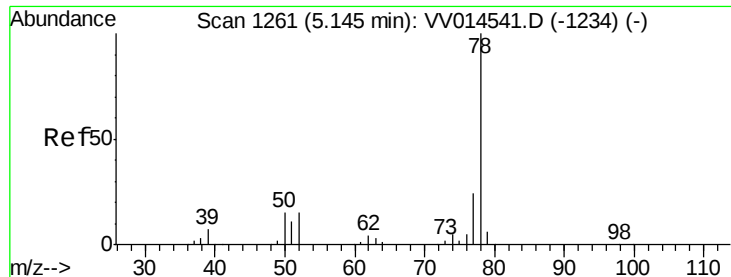
Tot Ion: 97 Resp: 8665
 Ion Ratio Lower Upper
 97 100
 99 68.9 50.6 76.0
 61 41.0 33.0 49.4



#31
 Carbon tetrachloride
 Concen: 2.508 ug/L
 RT: 4.87 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Tgt Ion: 117 Resp: 7965
 Ion Ratio Lower Upper
 117 100
 119 96.3 76.7 115.1

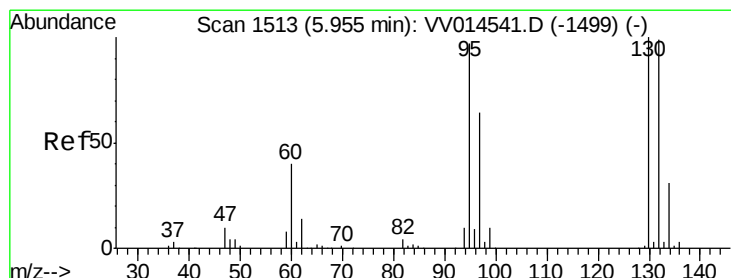
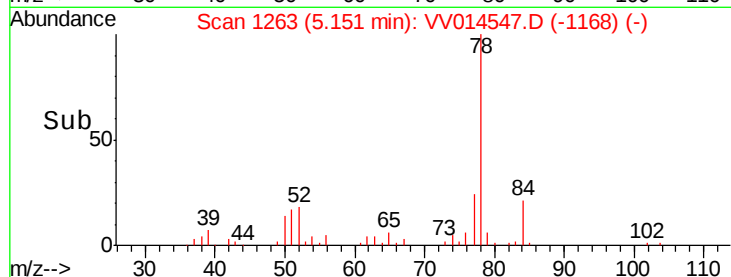
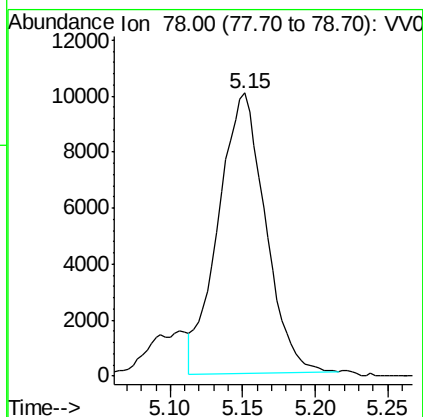
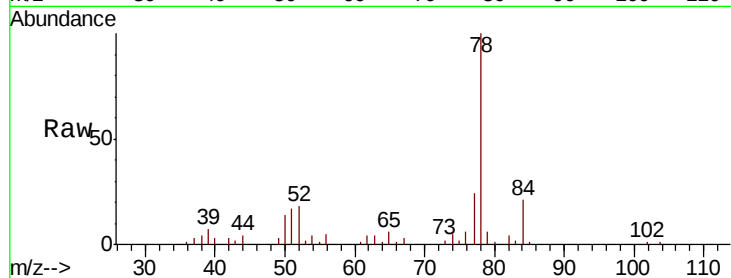




#33
Benzene
Concen: 2.427 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion: 78 Resp: 22511

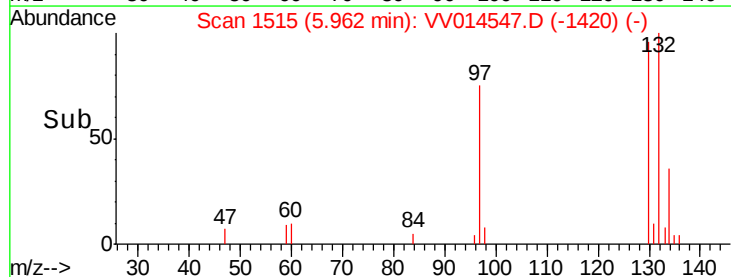
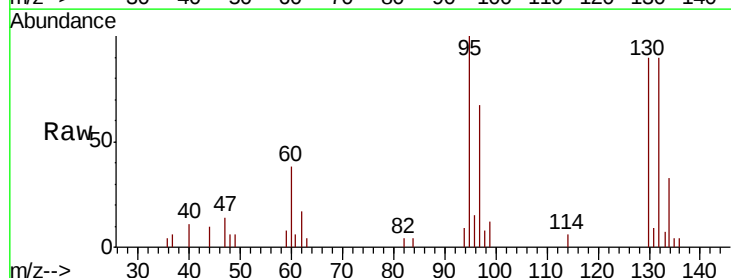
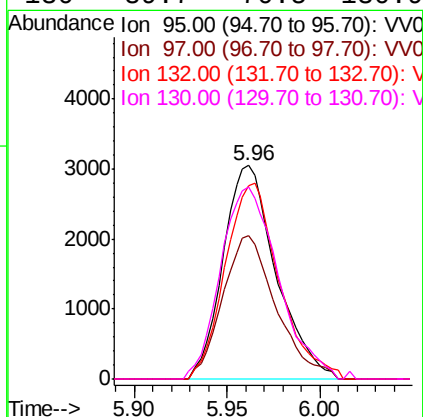
Instrument :
MSVOA_V
ClientSampled :

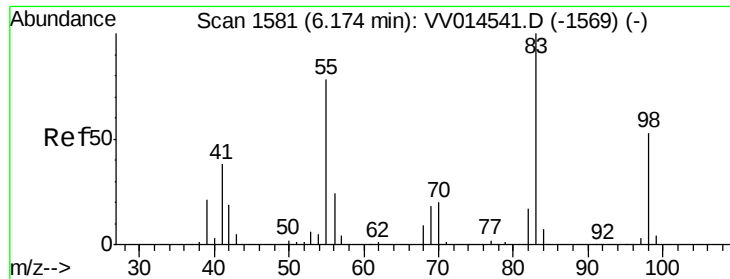


#34
Trichloroethene
Concen: 2.458 ug/L
RT: 5.96 min Scan# 1515
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion: 95 Resp: 6044

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

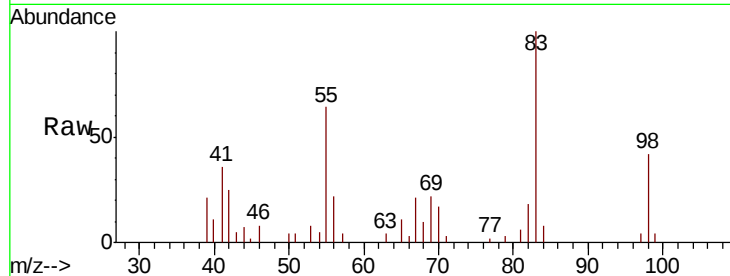




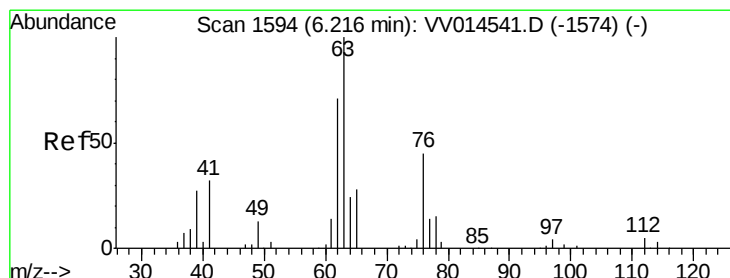
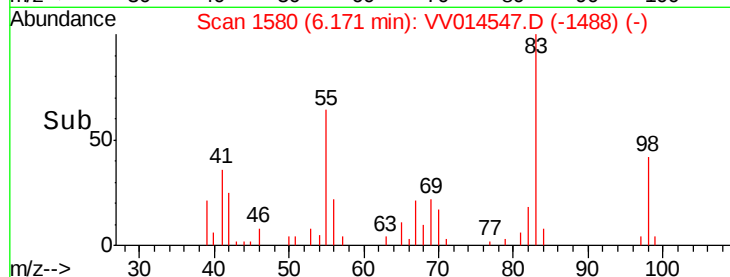
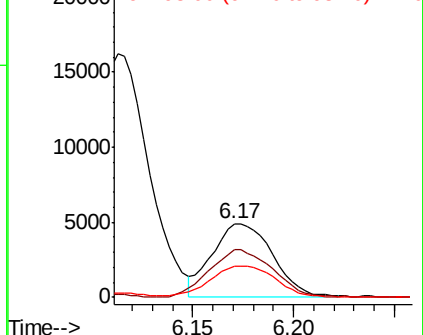
#35
Methvlcvclohexane
Concen: 2.566 ug/L
RT: 6.17 min Scan# 1580
Delta R.T. -0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampleId :

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

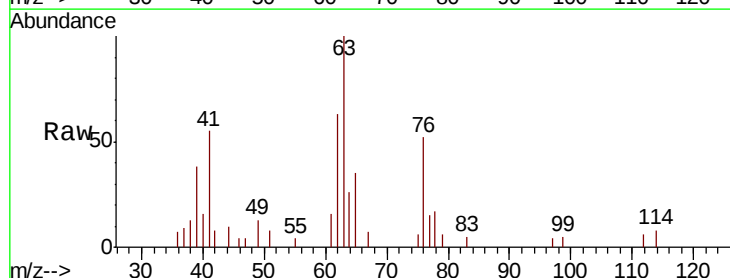


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

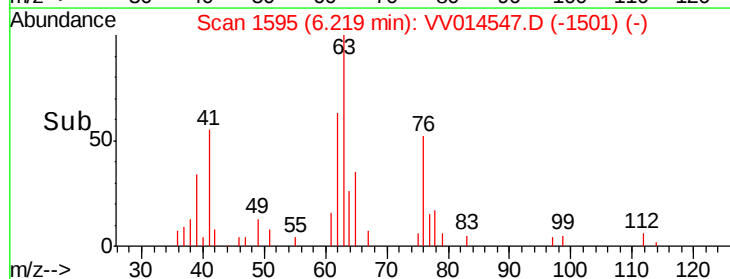
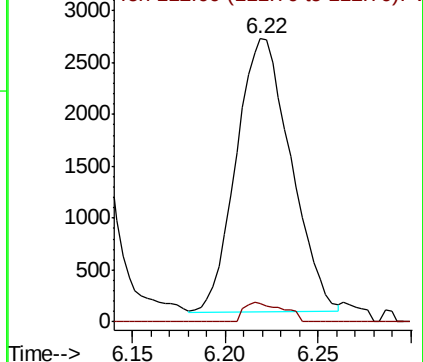


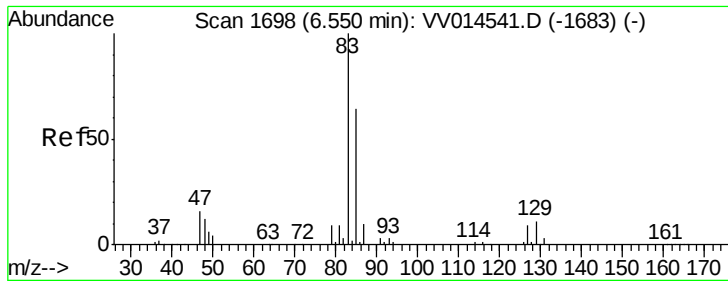
#37
1,2-Dichloropropane
Concen: 2.272 ug/L
RT: 6.22 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion: 63 Resp: 5368
Ion Ratio Lower Upper
63 100
112 4.7 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V





#38

Bromodichloromethane

Concen: 2.468 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

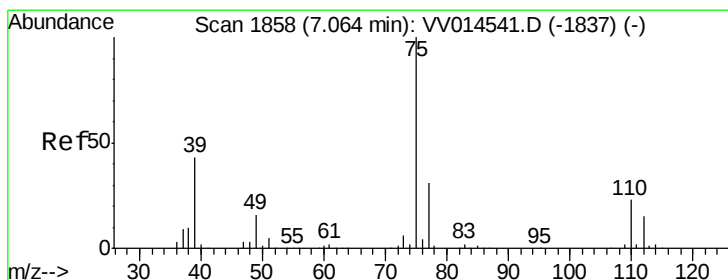
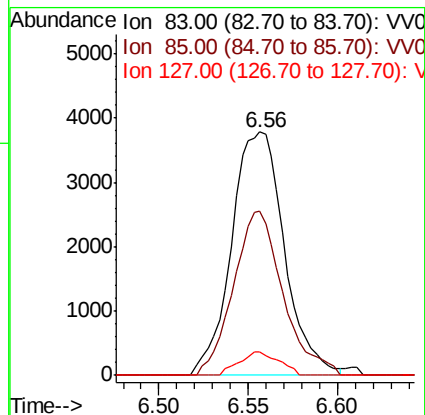
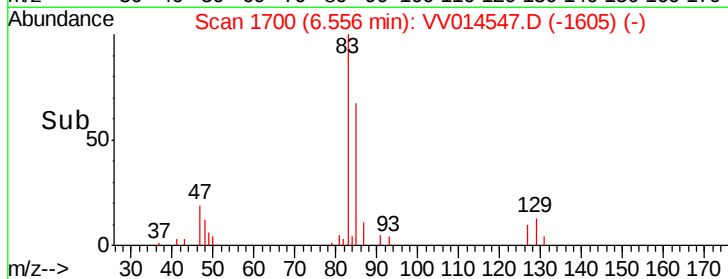
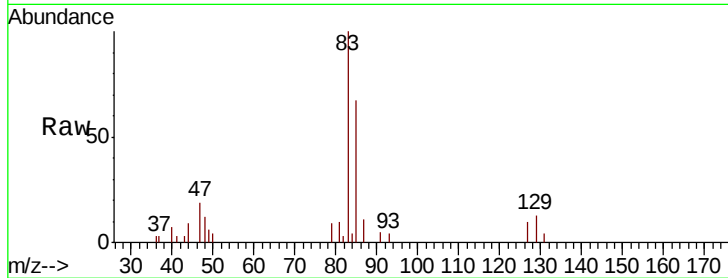
Tot Ion: 83 Resp: 7826

Ion Ratio Lower Upper

83 100

85 67.4 44.4 82.4

127 9.6 6.7 10.1



#39

cis-1,3-Dichloropropene

Concen: 2.507 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV014547.D

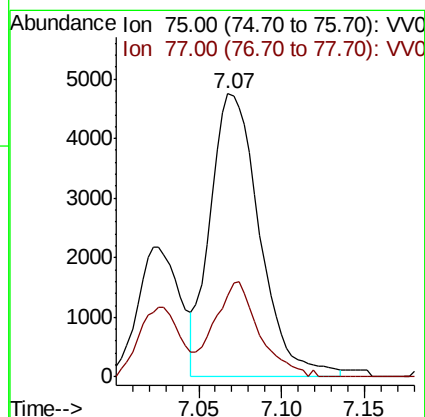
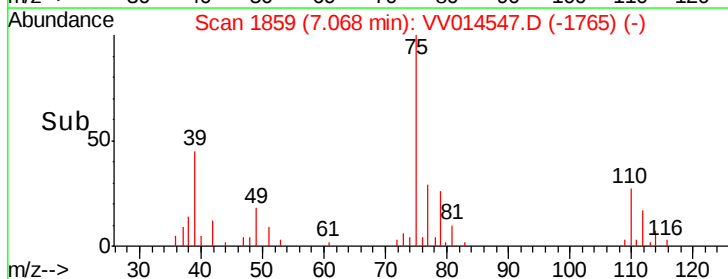
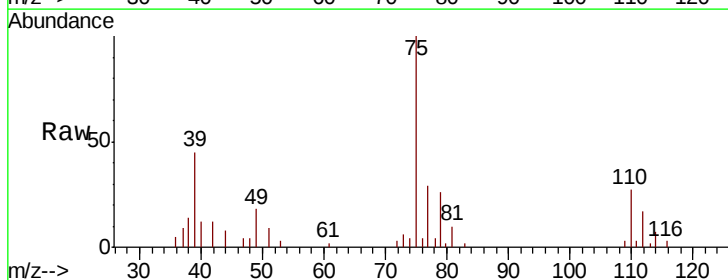
Acq: 10 Feb 2020 13:22

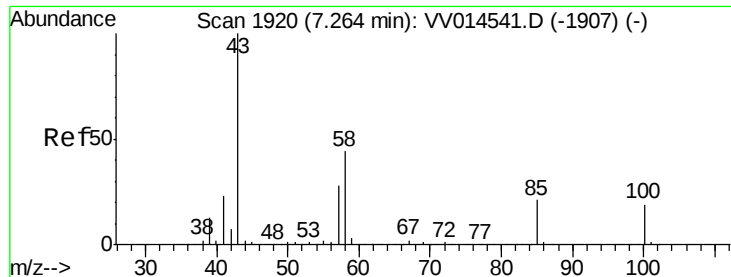
Tgt Ion: 75 Resp: 9878

Ion Ratio Lower Upper

75 100

77 28.6 22.7 42.1

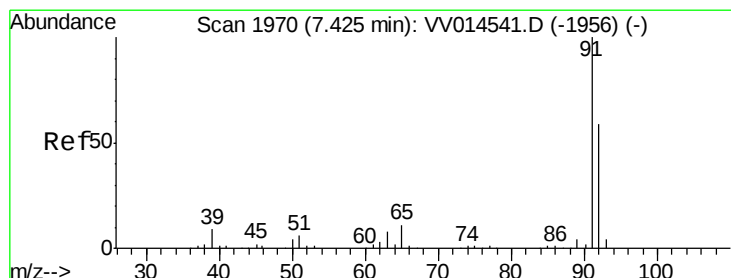
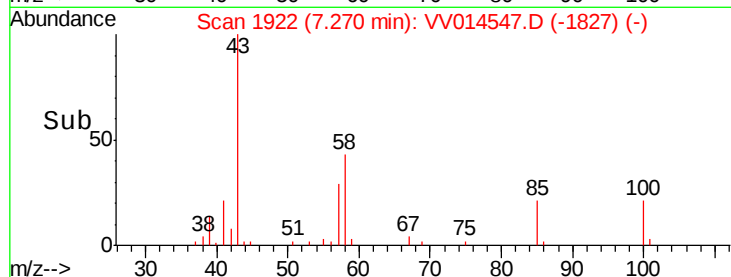
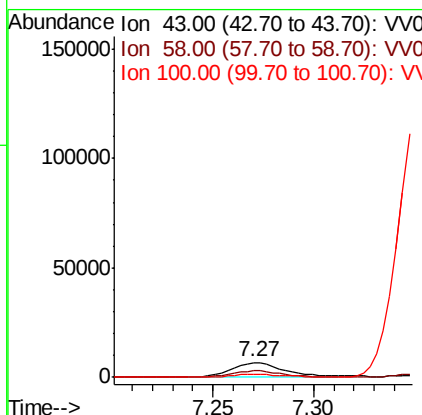
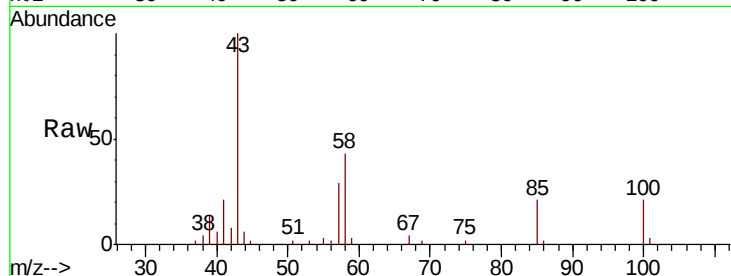




#40
4-Methyl-2-pentanone
Concen: 4.079 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

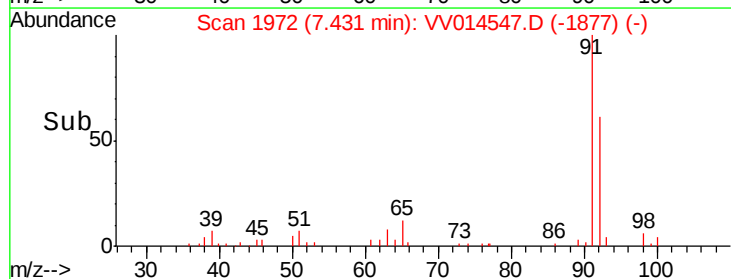
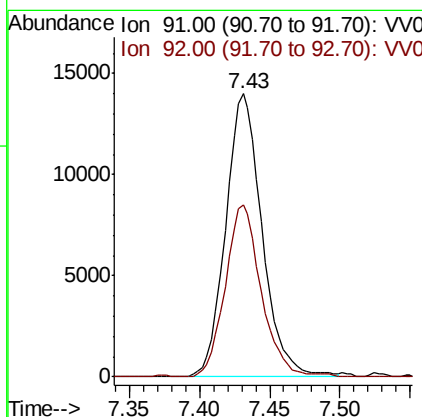
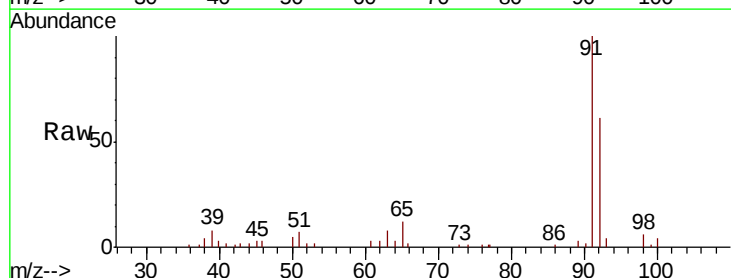
Instrument :
MSVOA_V
ClientSampled :

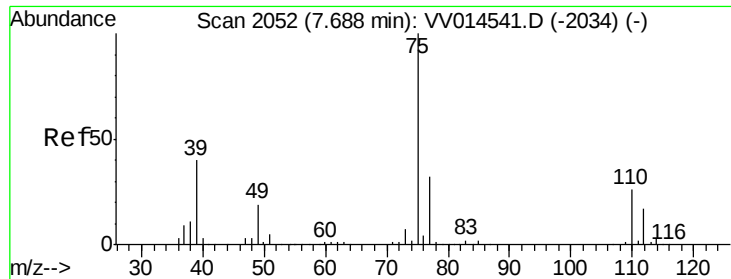
Tot Ion: 43 Resp: 12453
Ion Ratio Lower Upper
43 100
58 44.4 33.2 49.8
100 20.5 13.9 20.9



#42
Toluene
Concen: 2.543 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. 0.01 min
Lab File: VV014547.D
Acq: 10 Feb 2020 13:22

Tgt Ion: 91 Resp: 25291
Ion Ratio Lower Upper
91 100
92 60.9 41.6 77.2





#44

trans-1,3-Dichloropropene

Concen: 2.385 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

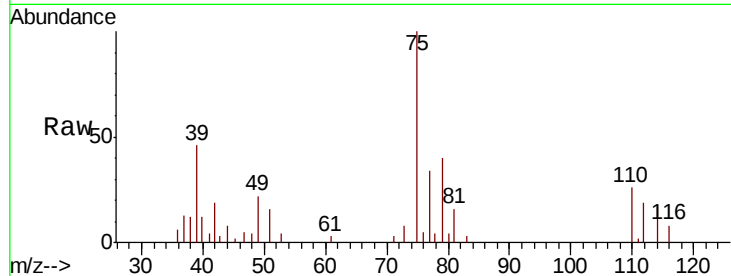
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 75 Resp: 8429

Ion Ratio Lower Upper

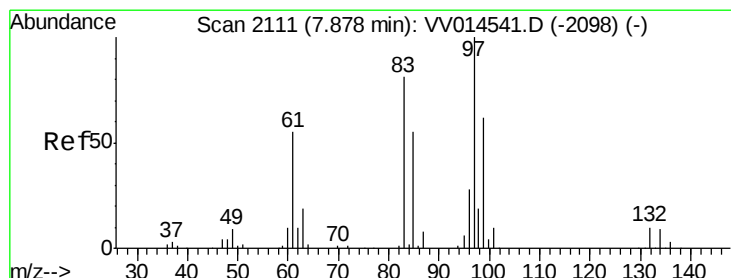
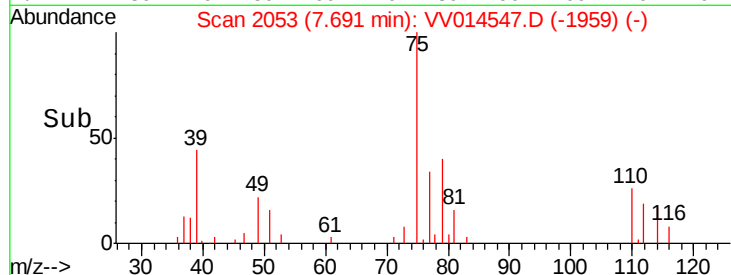
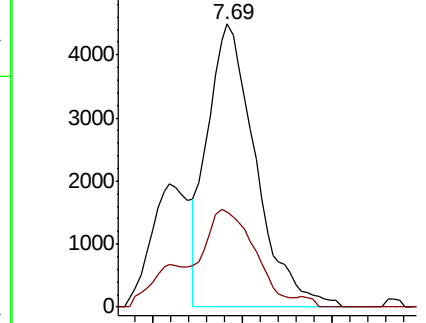
75 100

77 33.7 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV014541.D (-2034) (-)

Ion 77.00 (76.70 to 77.70): VV014541.D (-2034) (-)



#45

1,1,2-Trichloroethane

Concen: 2.445 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion: 97 Resp: 5542

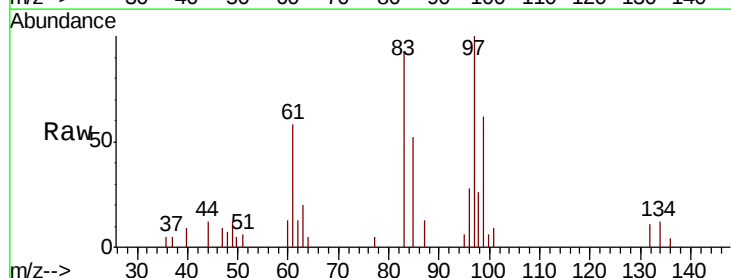
Ion Ratio Lower Upper

97 100

99 61.5 44.5 82.7

83 93.1 60.1 111.5

85 52.1 38.1 70.9

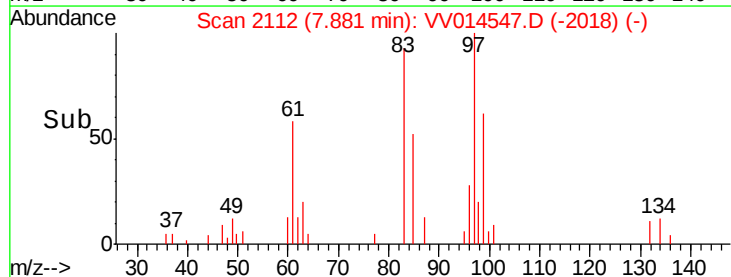
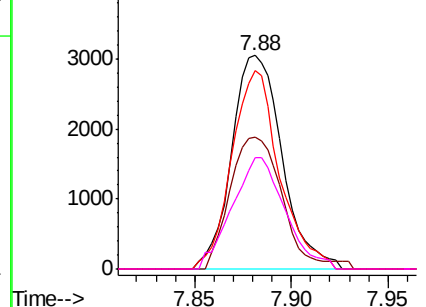


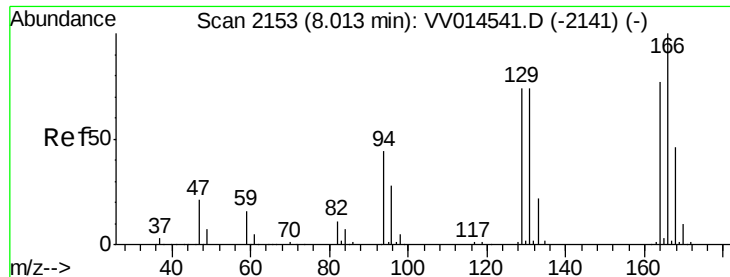
Abundance Ion 97.00 (96.70 to 97.70): VV014541.D (-2098) (-)

Ion 99.00 (98.70 to 99.70): VV014541.D (-2098) (-)

Ion 83.00 (82.70 to 83.70): VV014541.D (-2098) (-)

Ion 85.00 (84.70 to 85.70): VV014541.D (-2098) (-)





#46

Tetrachloroethene

Concen: 2.479 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:164 Resp: 4650

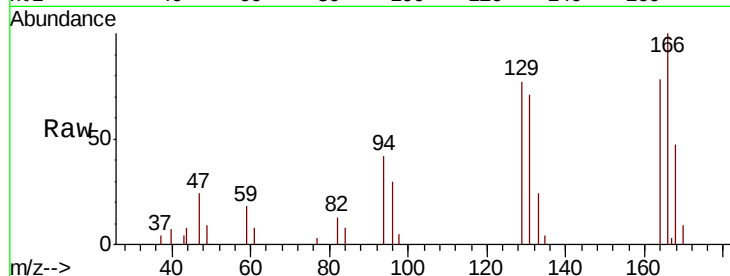
Ion Ratio Lower Upper

164 100

129 97.9 68.0 126.4

131 90.3 63.4 117.8

166 127.6 86.9 161.3



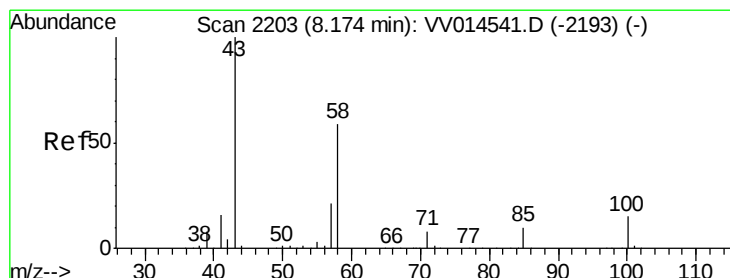
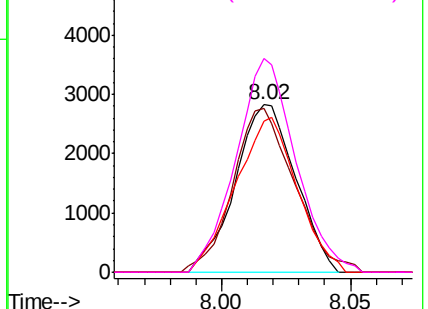
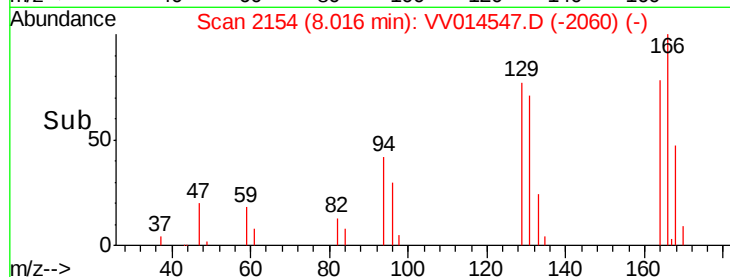
Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 4.470 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion: 43 Resp: 10506

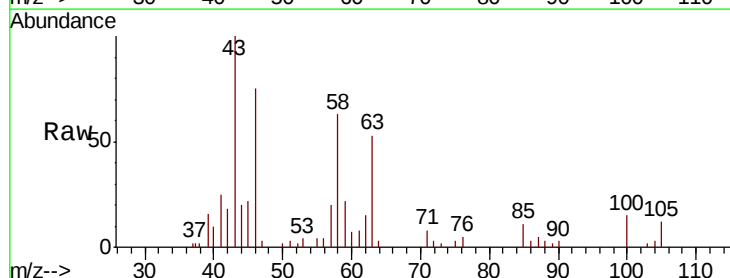
Ion Ratio Lower Upper

43 100

58 71.1 45.5 68.3#

57 18.6 15.8 23.6

100 14.9 10.8 16.2



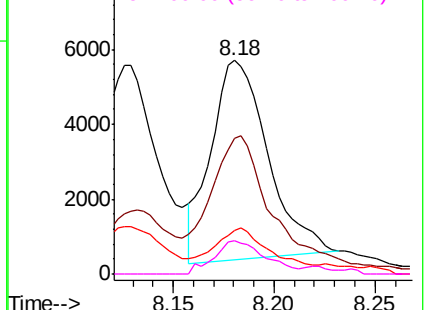
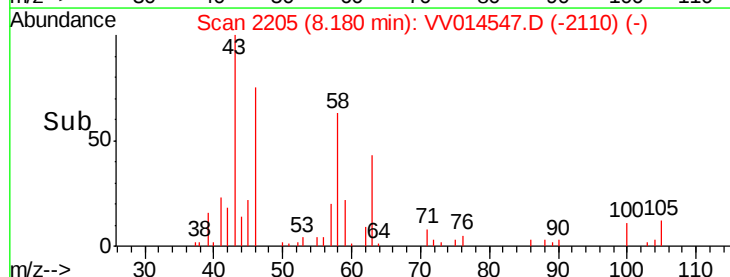
Abundance

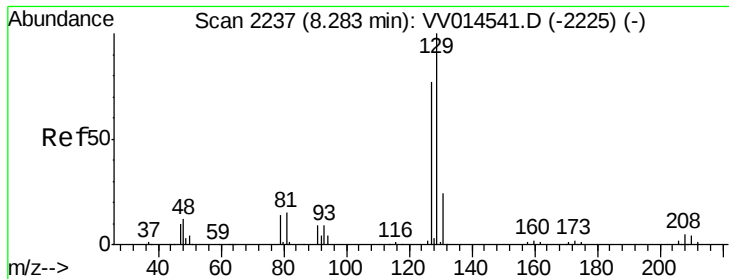
Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 2.483 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

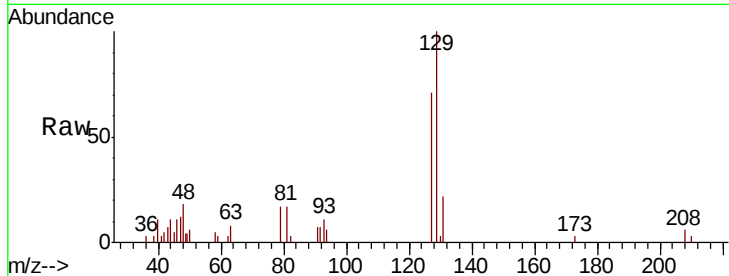
ClientSampled :

Tot Ion:129 Resp: 6354

Ion Ratio Lower Upper

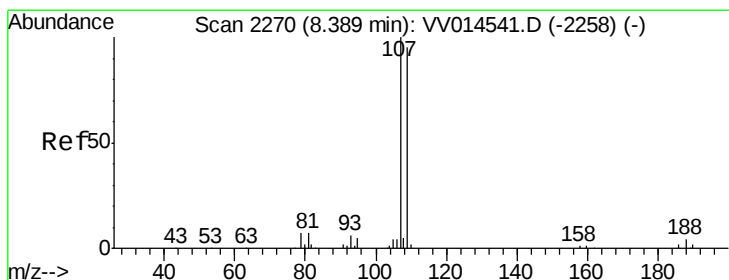
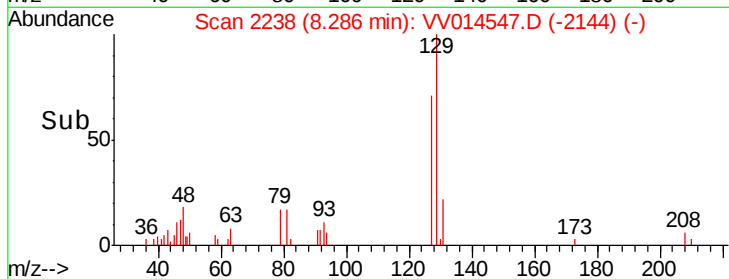
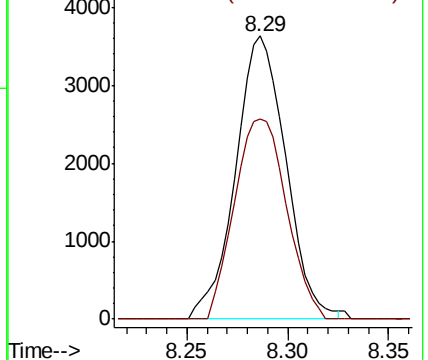
129 100

127 70.8 54.1 100.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 2.519 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

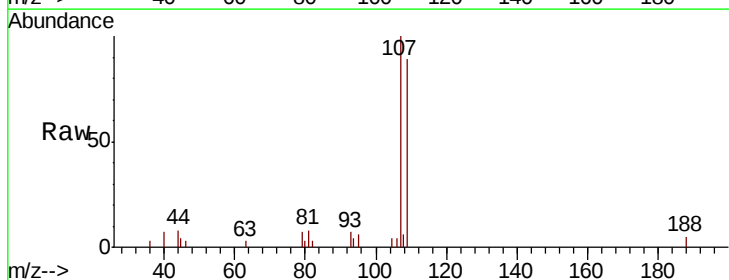
Tgt Ion:107 Resp: 6184

Ion Ratio Lower Upper

107 100

109 88.9 65.2 121.2

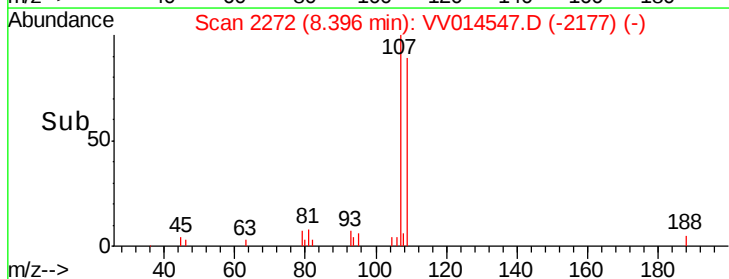
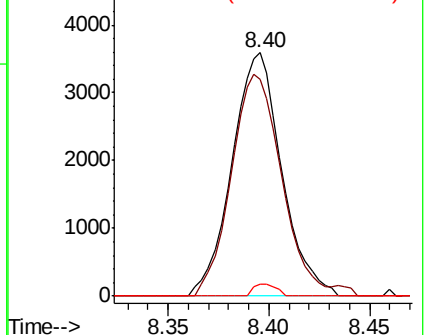
188 4.8 2.6 4.0#

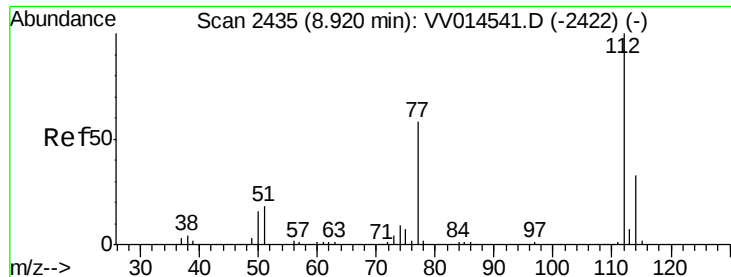


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 2.554 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :
MSVOA_V
ClientSampled :

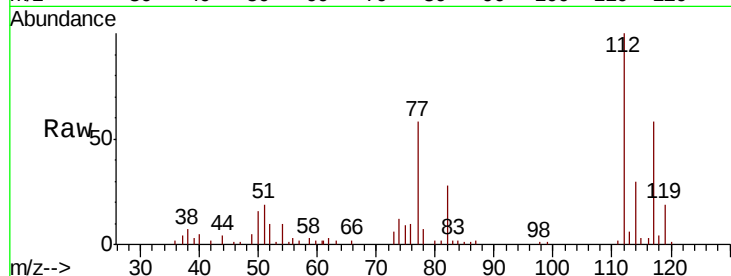
Tot Ion:112 Resp: 16592

Ion Ratio Lower Upper

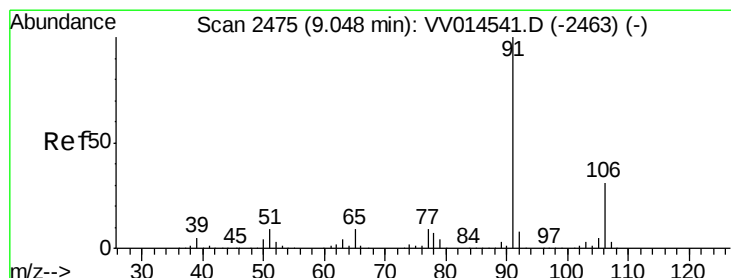
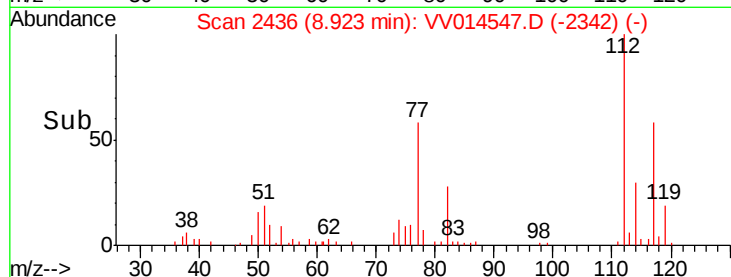
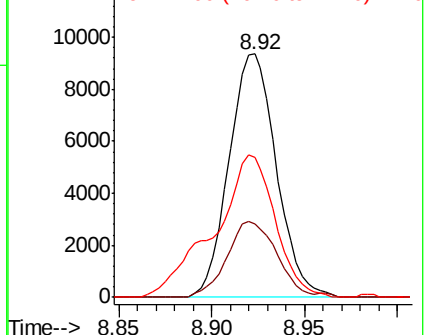
112 100

114 30.1 22.3 41.5

77 57.5 47.3 70.9



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 2.398 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.01 min

Lab File: VV014547.D

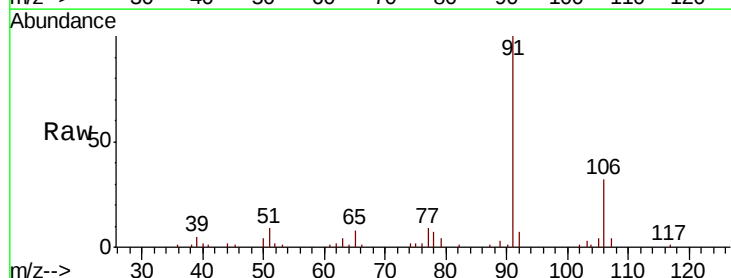
Acq: 10 Feb 2020 13:22

Tgt Ion: 91 Resp: 26741

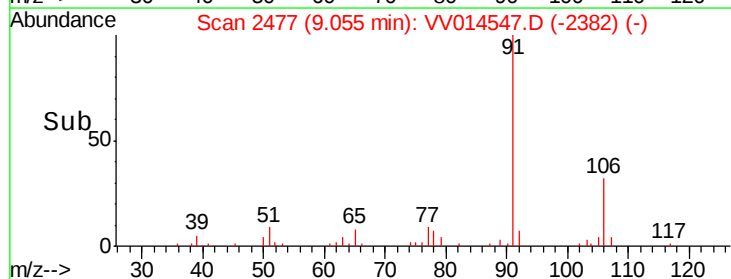
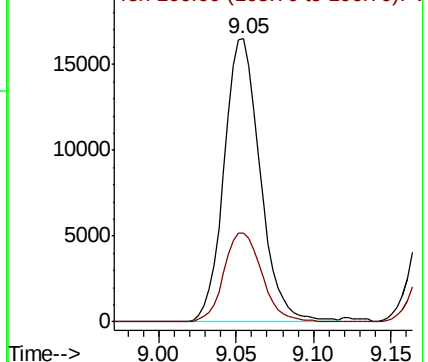
Ion Ratio Lower Upper

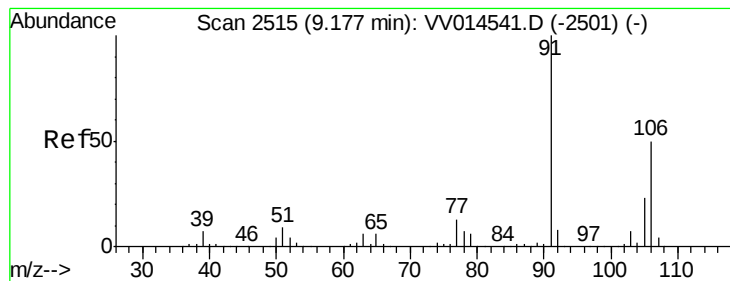
91 100

106 31.6 21.5 39.9



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





#53

m,p-Xylene

Concen: 2.409 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

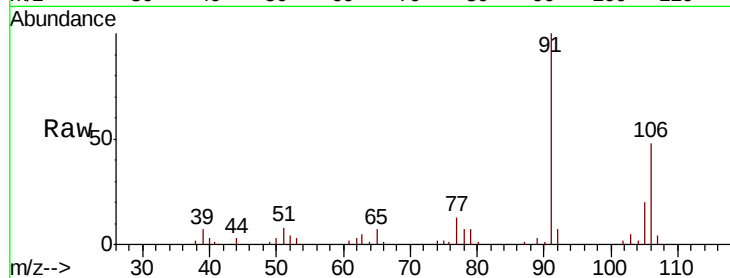
ClientSampleId :

Tot Ion:106 Resp: 10350

Ion Ratio Lower Upper

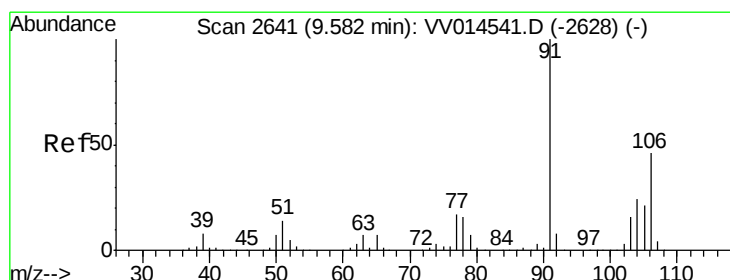
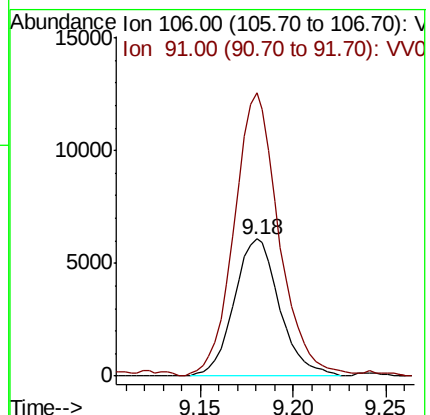
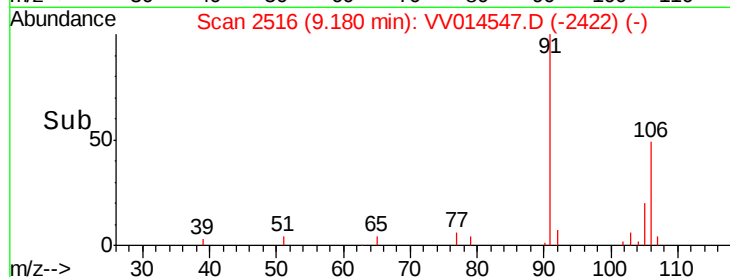
106 100

91 206.5 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-Xylene

Concen: 2.355 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV014547.D

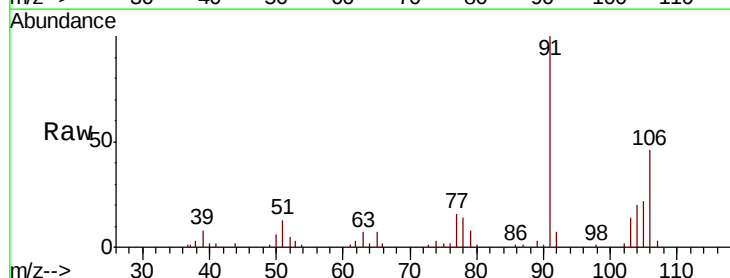
Acq: 10 Feb 2020 13:22

Tgt Ion:106 Resp: 9682

Ion Ratio Lower Upper

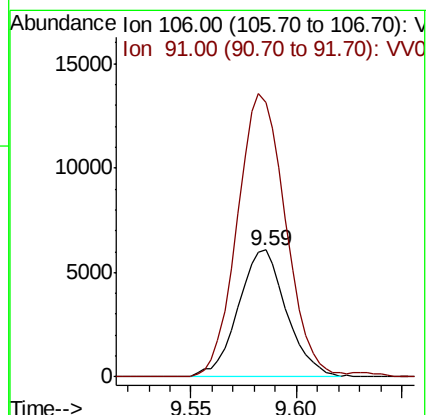
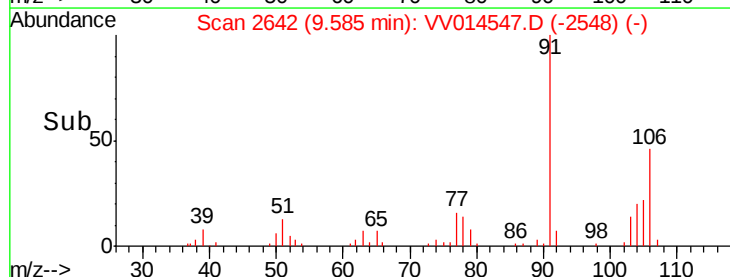
106 100

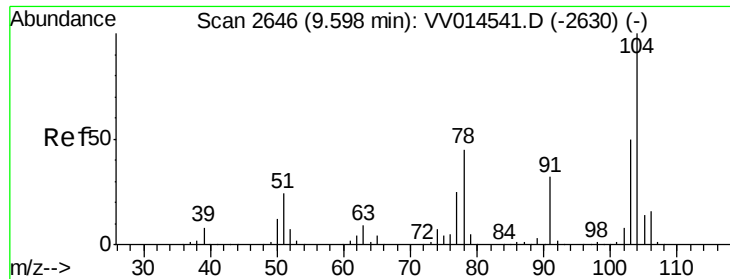
91 216.3 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 2.315 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

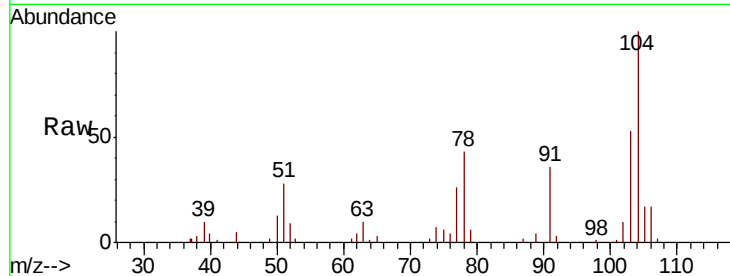
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:104 Resp: 16267

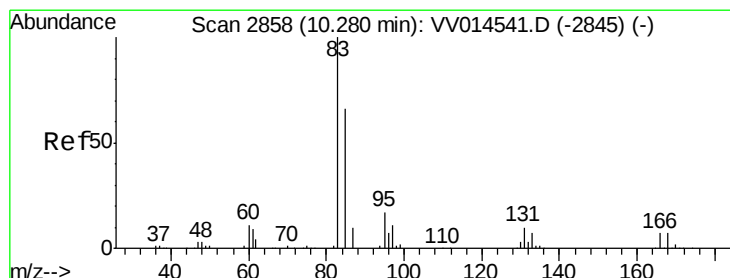
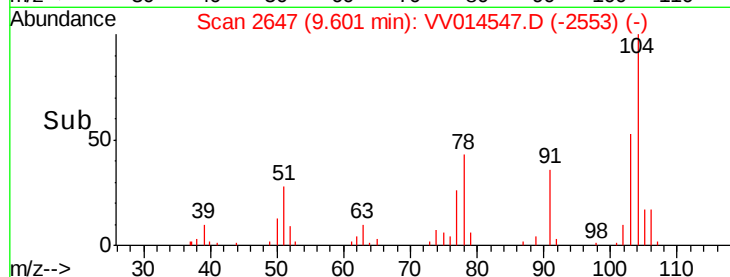
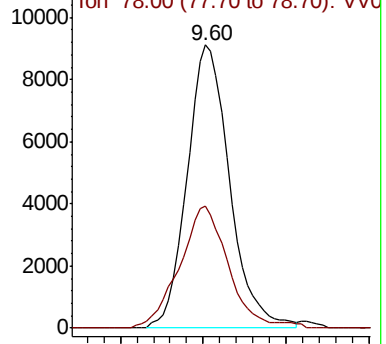
Ion Ratio Lower Upper

104 100

78 43.0 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): VV014541.D (-2630) (-)



#57

1,1,2,2-Tetrachloroethane

Concen: 2.833 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

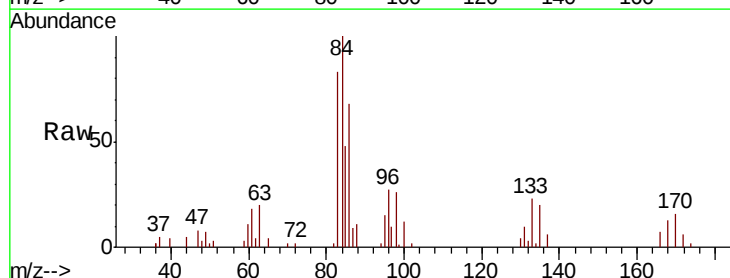
Tgt Ion: 83 Resp: 10062

Ion Ratio Lower Upper

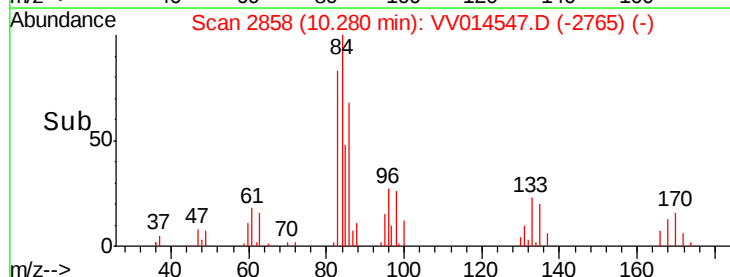
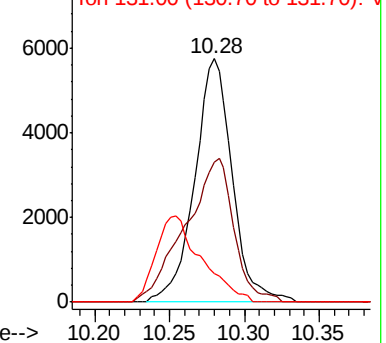
83 100

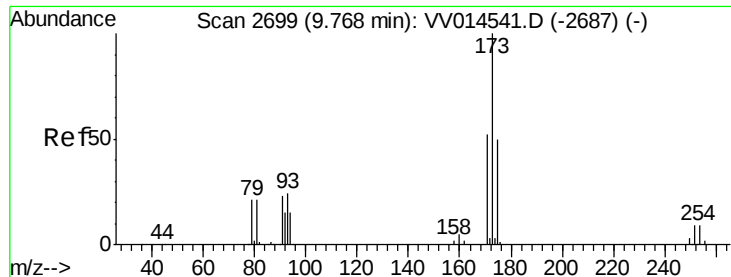
85 57.2 45.2 84.0

131 12.0 7.8 11.8#



Abundance Ion 83.00 (82.70 to 83.70): VV014541.D (-2845) (-)





#59

Bromoform

Concen: 2.281 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

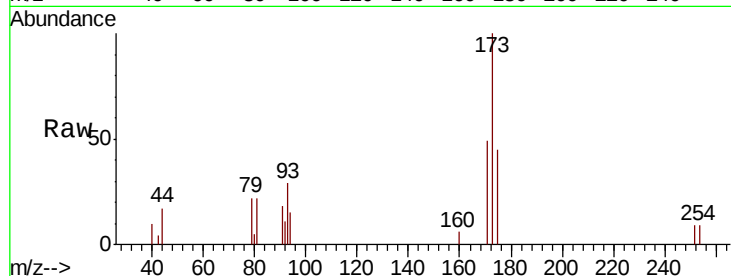
Tot Ion:173 Resp: 4024

Ion Ratio Lower Upper

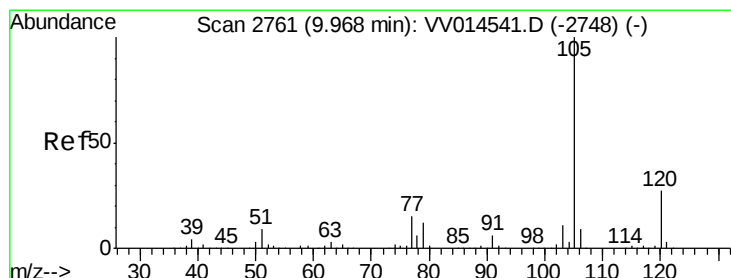
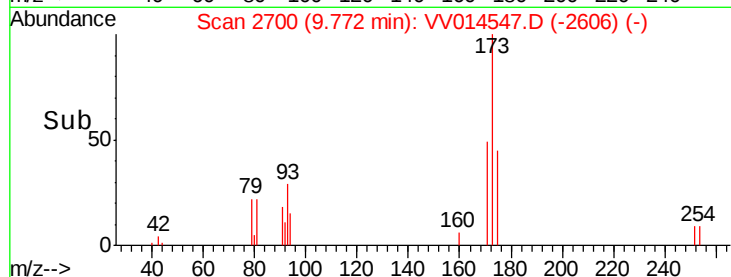
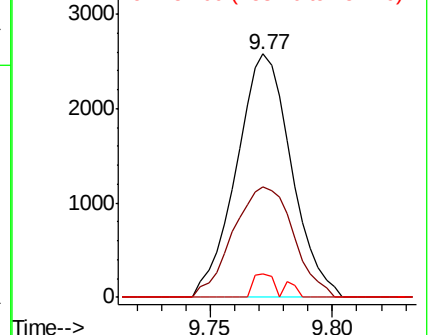
173 100

175 50.0 37.8 56.8

254 3.4 7.0 10.6#



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#60

Isopropylbenzene

Concen: 2.439 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

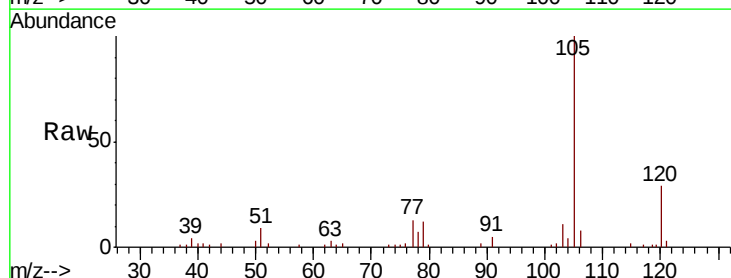
Tgt Ion:105 Resp: 26091

Ion Ratio Lower Upper

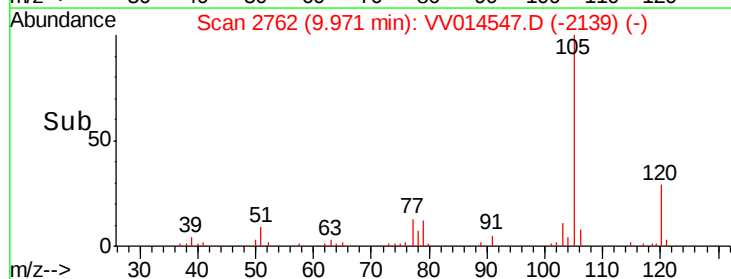
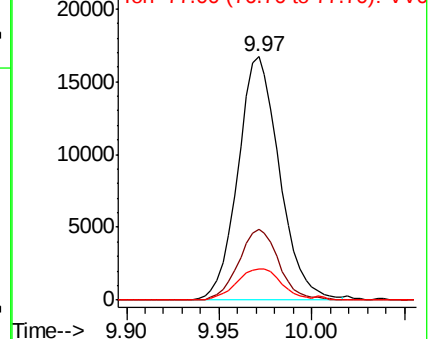
105 100

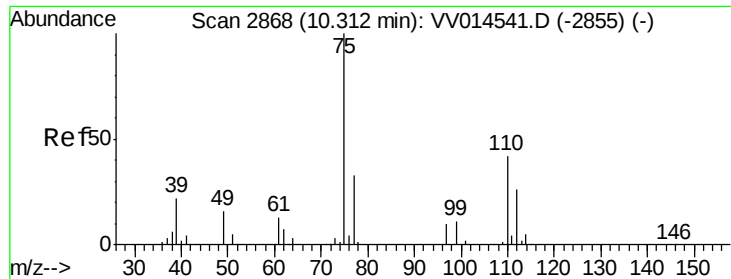
120 27.9 21.5 32.3

77 14.0 12.2 18.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): VV0





#61

1,2,3-Trichloropropane

Concen: 2.414 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampled :

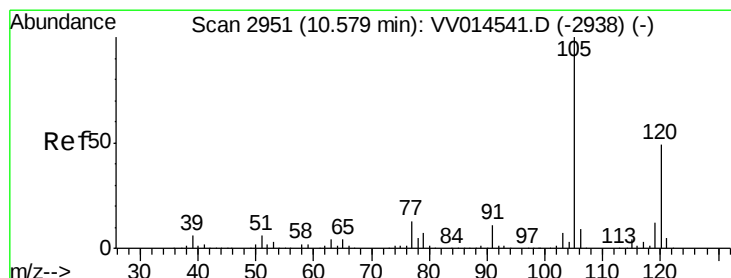
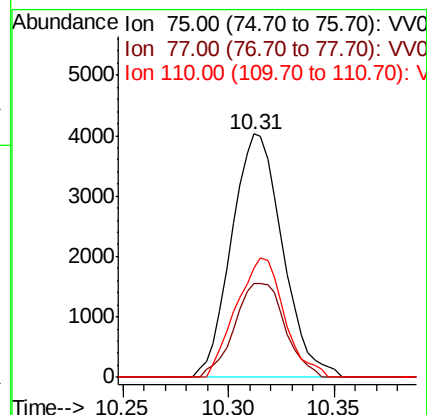
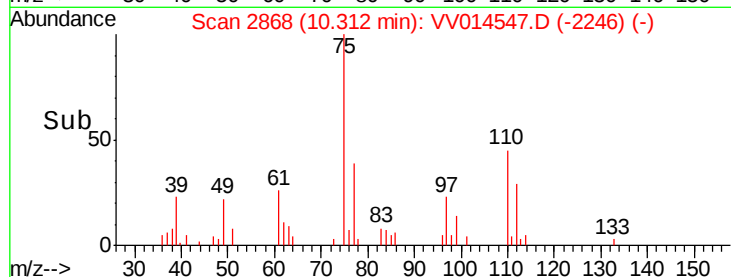
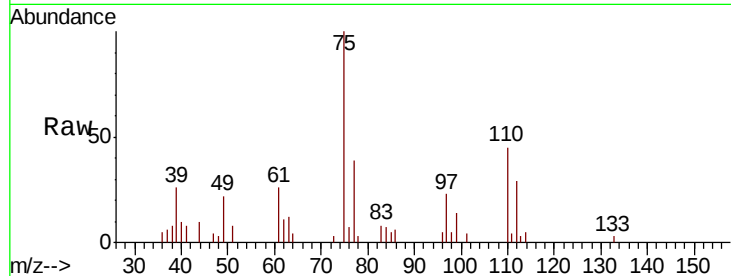
Tot Ion: 75 Resp: 6761

Ion Ratio Lower Upper

75 100

77 38.1 25.8 38.8

110 46.4 32.4 48.6



#62

1,3,5-Trimethylbenzene

Concen: 2.290 ug/L

RT: 10.58 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VV014547.D

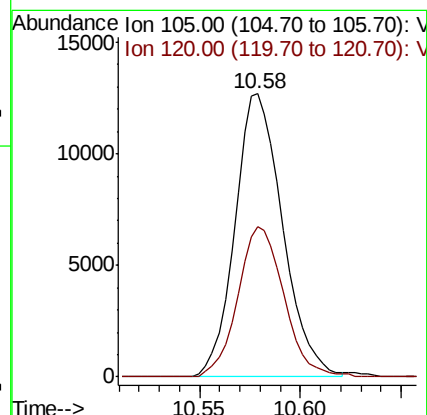
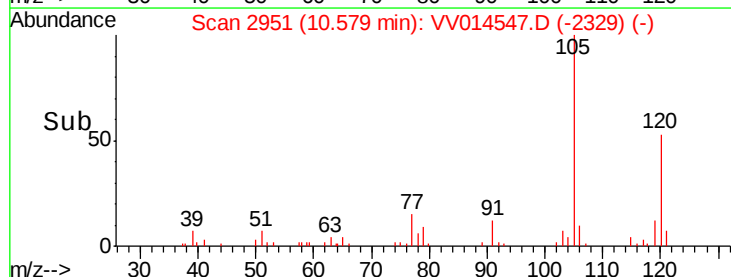
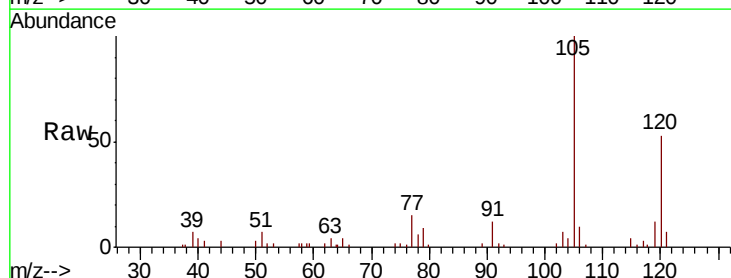
Acq: 10 Feb 2020 13:22

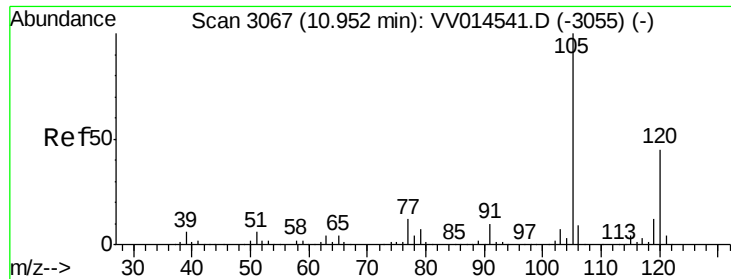
Tgt Ion: 105 Resp: 20970

Ion Ratio Lower Upper

105 100

120 51.3 39.0 58.6

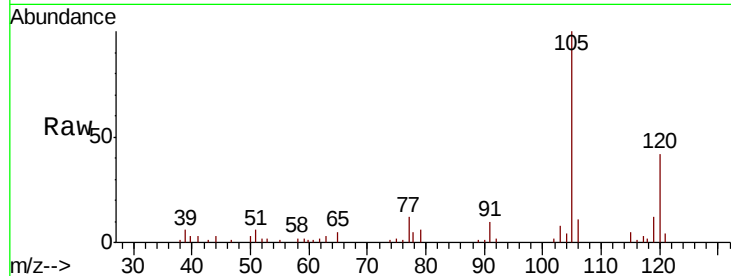




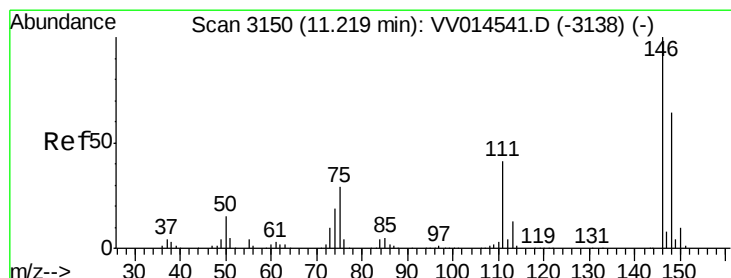
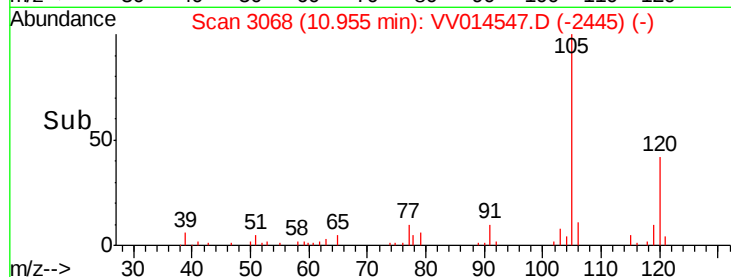
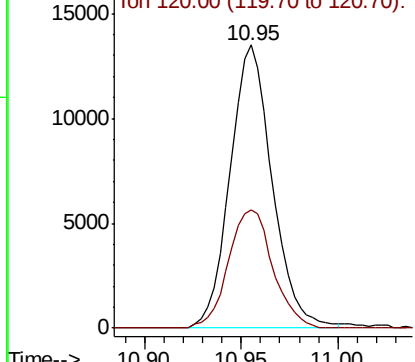
#63
 1,2,4-Trimethylbenzene
 Concen: 2.266 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

Instrument :
 MSVOA_V
 ClientSampled :

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

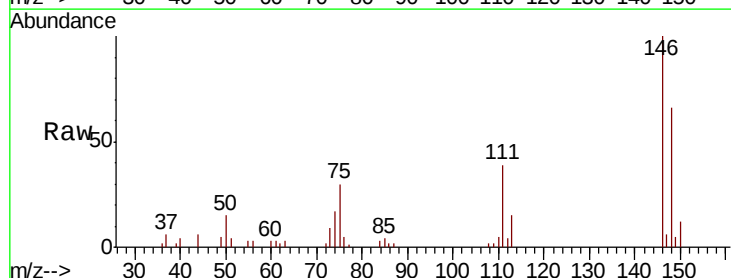


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

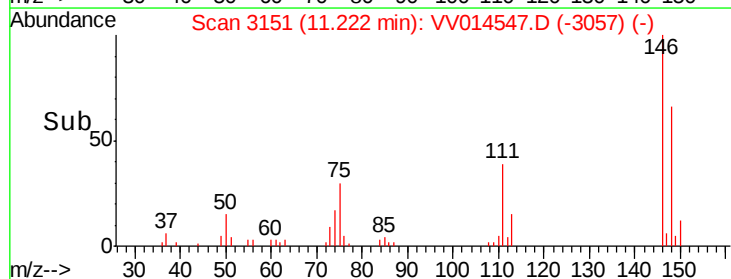
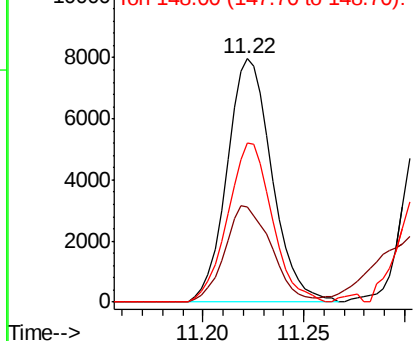


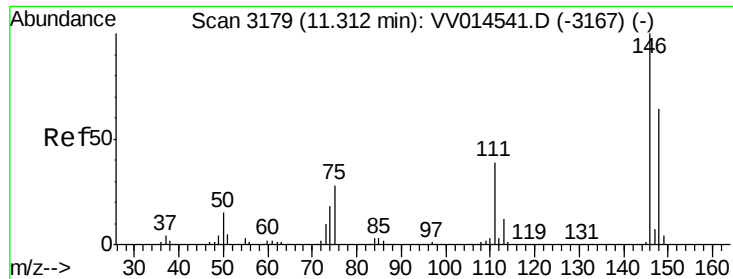
#64
 1,3-Dichlorobenzene
 Concen: 2.462 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

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



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

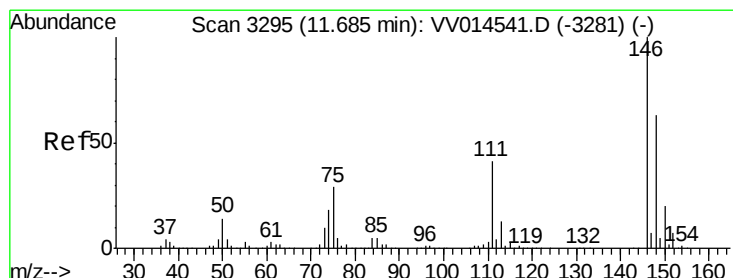
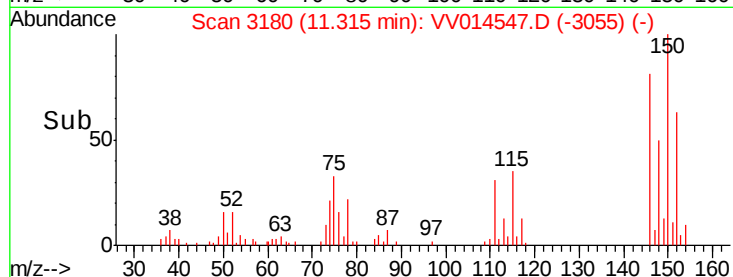
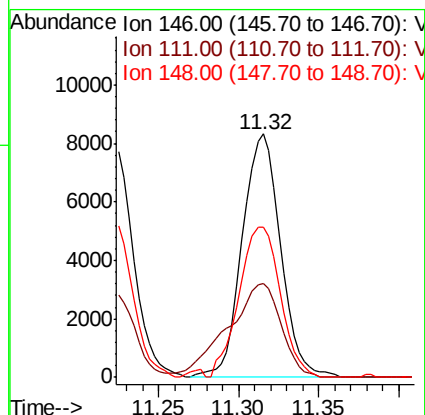
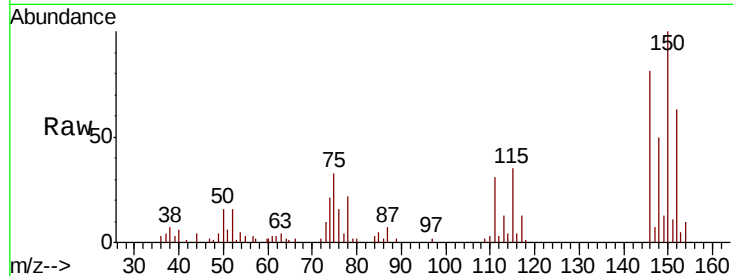




#65
 1,4-Dichlorobenzene
 Concen: 2.620 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV014547.D
 Acq: 10 Feb 2020 13:22

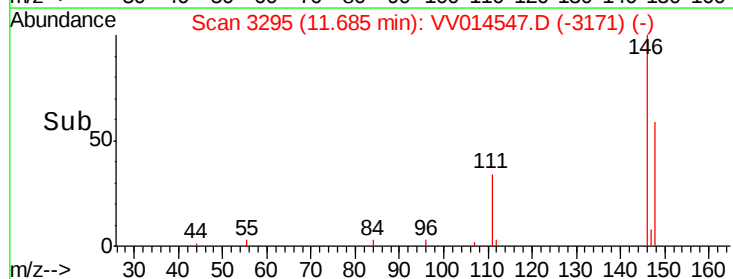
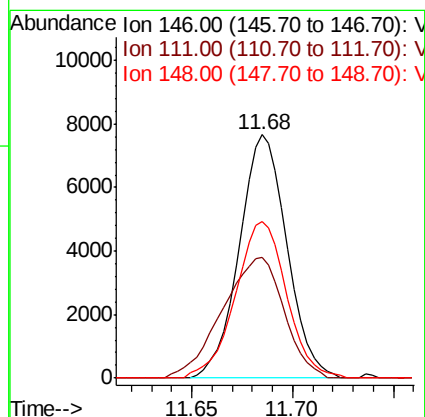
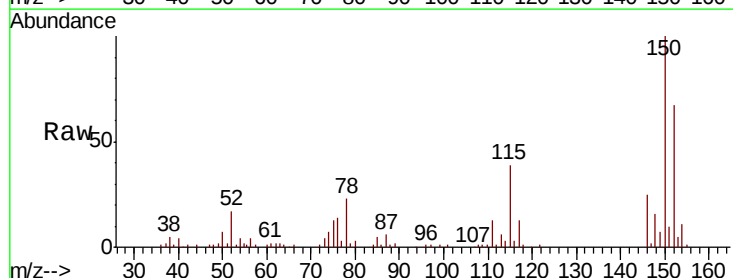
Instrument :
 MSVOA_V
 ClientSampled :

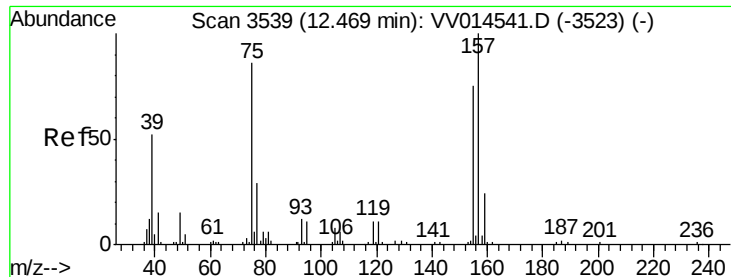
Tot Ion:146 Resp: 13608
 Ion Ratio Lower Upper
 146 100
 111 38.6 28.1 52.3
 148 61.8 44.4 82.4



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

Tgt Ion:146 Resp: 12674
 Ion Ratio Lower Upper
 146 100
 111 49.8 34.6 51.8
 148 64.2 50.2 75.4





#68

1,2-Dibromo-3-chloropropane

Concen: 2.439 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

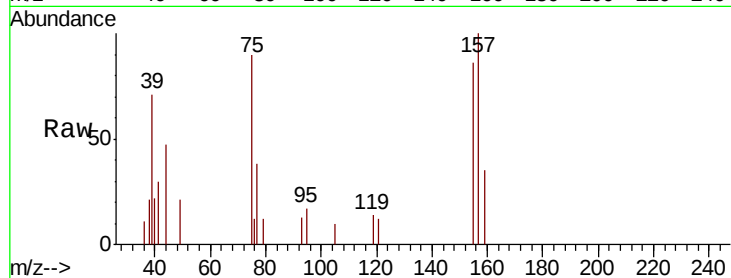
Tot Ion: 75 Resp: 1913

Ion Ratio Lower Upper

75 100

155 95.5 68.3 102.5

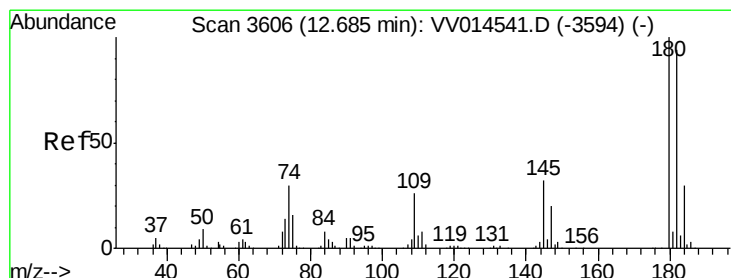
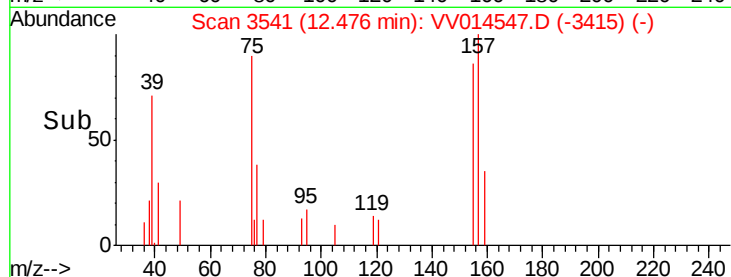
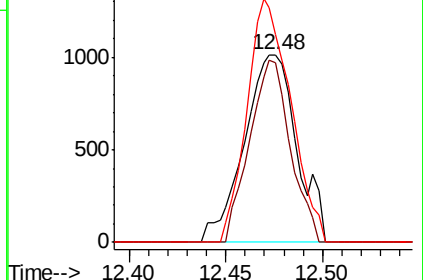
157 110.7 87.1 130.7



Abundance Ion 75.00 (74.70 to 75.70): VV014547.D (-3523) (-)

Ion 155.00 (154.70 to 155.70): VV014547.D (-3523) (-)

Ion 157.00 (156.70 to 157.70): VV014547.D (-3523) (-)



#69

1,3,5-Trichlorobenzene

Concen: 2.307 ug/L

RT: 12.69 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Tgt Ion: 180 Resp: 8201

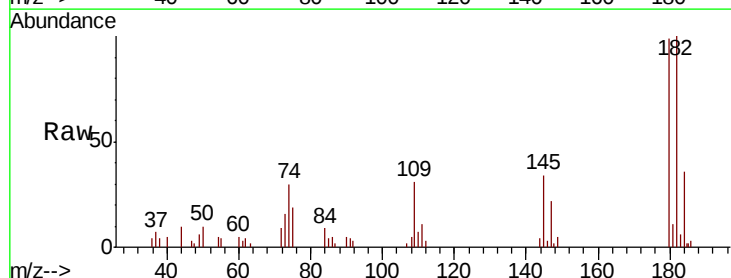
Ion Ratio Lower Upper

180 100

182 100.9 75.0 112.4

184 35.2 24.2 36.2

145 34.4 24.3 36.5

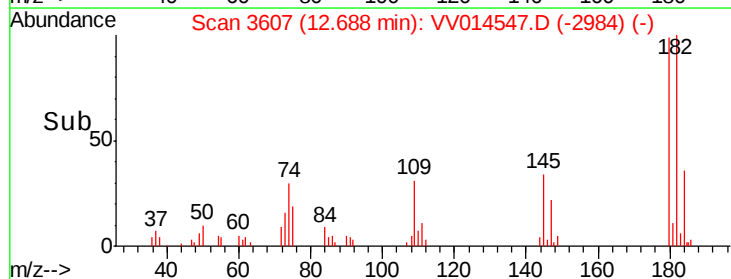
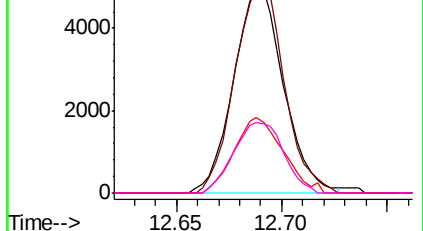


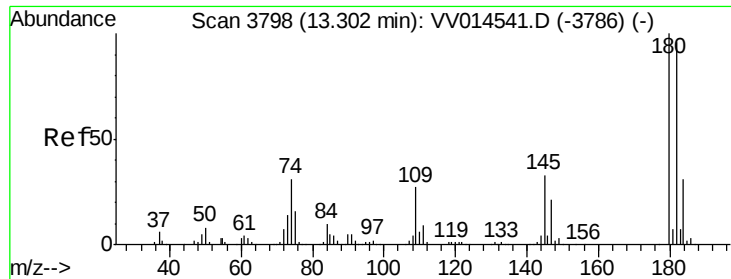
Abundance Ion 180.00 (179.70 to 180.70): VV014547.D (-3594) (-)

Ion 182.00 (181.70 to 182.70): VV014547.D (-3594) (-)

Ion 184.00 (183.70 to 184.70): VV014547.D (-3594) (-)

Ion 145.00 (144.70 to 145.70): VV014547.D (-3594) (-)





#70

1,2,4-trichlorobenzene

Concen: 2.291 ug/L

RT: 13.31 min Scan# 3799

Delta R.T. 0.00 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

Instrument :

MSVOA_V

ClientSampleId :

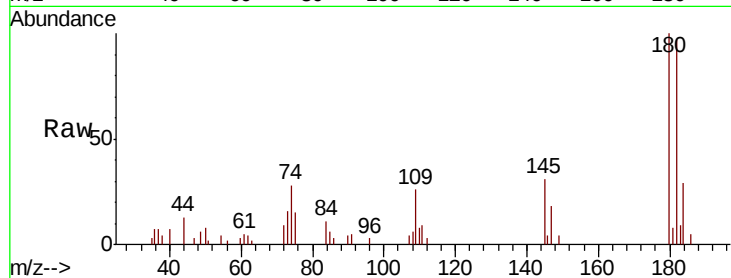
Tot Ion:180 Resp: 7478

Ion Ratio Lower Upper

180 100

182 93.5 76.0 114.0

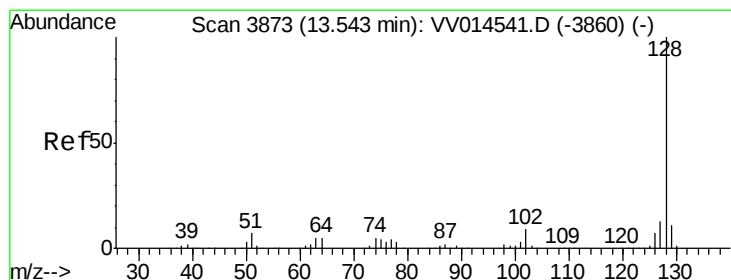
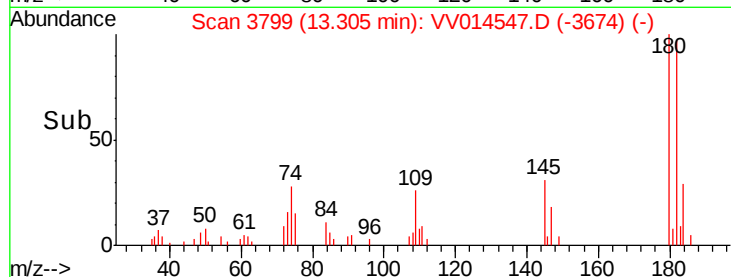
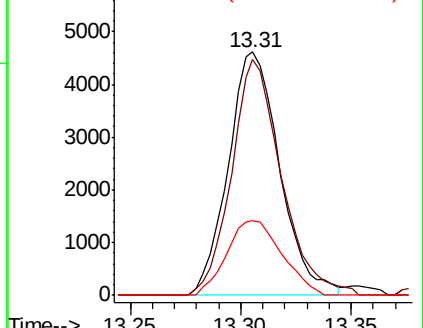
145 32.8 25.3 37.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#71

Naphthalene

Concen: 2.074 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.01 min

Lab File: VV014547.D

Acq: 10 Feb 2020 13:22

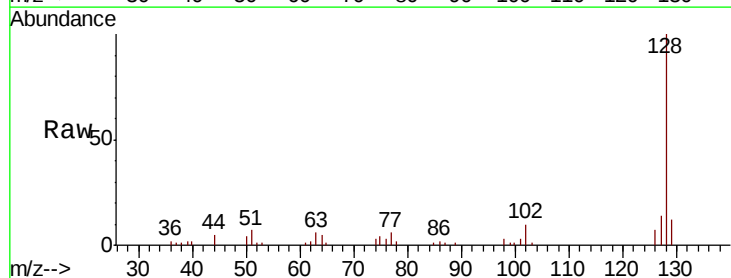
Tgt Ion:128 Resp: 22236

Ion Ratio Lower Upper

128 100

127 13.3 10.3 15.5

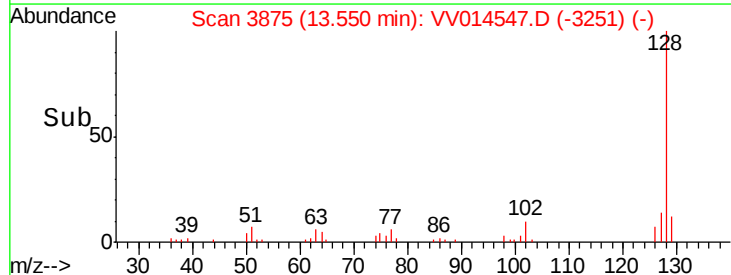
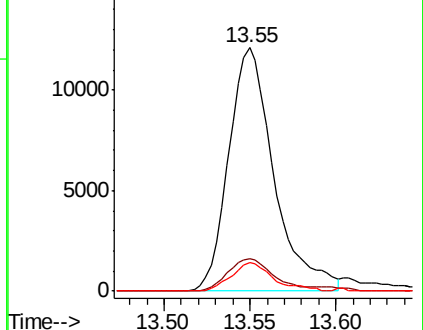
129 10.7 8.7 13.1

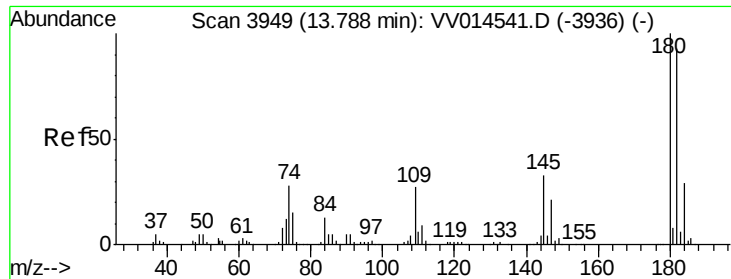


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





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

Instrument :
 MSVOA_V
 ClientSampleId :

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

