

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035545.D
 Acq On : 4 Sep 2020 00:30
 Operator : SY/AP
 Sample : L3898-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6DL

Quant Time: Sep 04 06:49:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1062814	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4536919	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4532078	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.46	95	3291020	10.23	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%	

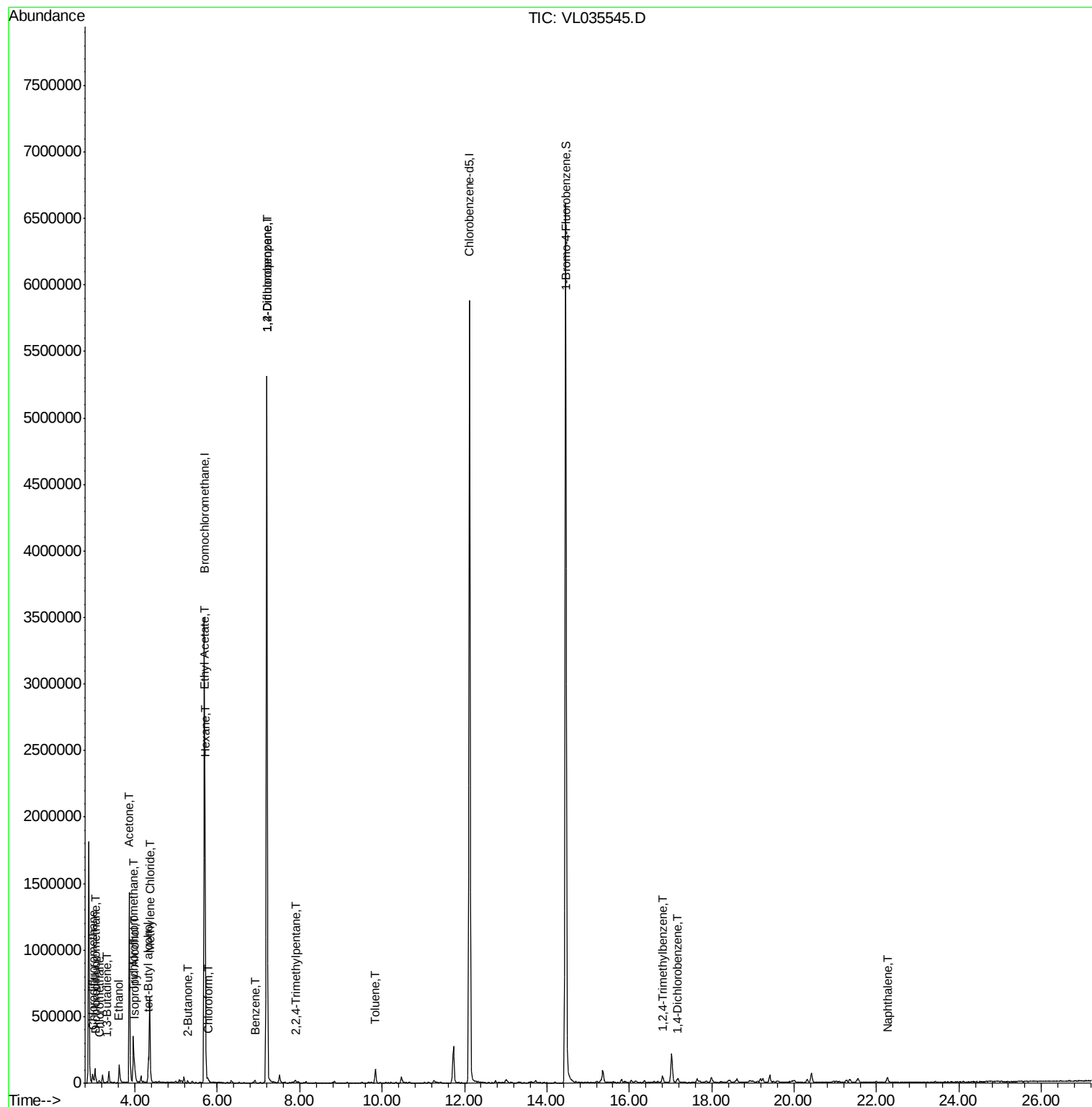
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	16624	0.090	ppbv	90
3) Chlorodifluoromethane	2.97	51	54073	0.460	ppbv #	70
4) Chloromethane	3.15	50	3535	0.056	ppbv #	83
11) Trichlorofluoromethane	3.97	101	225573	0.840	ppbv	98
13) Ethanol	3.62	45	140791	12.531	ppbv	99
15) Acetone	3.86	43	1319618	11.258	ppbv	100
16) 1,3-Butadiene	3.32	39	1465	0.034	ppbv #	56
17) tert-Butyl alcohol	4.33	59	40008	0.280	ppbv #	89
19) Isopropyl Alcohol	3.99	45	131864	1.886	ppbv #	93
20) Methylene Chloride	4.36	84	281404	3.223	ppbv	96
25) Ethyl Acetate	5.71	43	71586	0.346	ppbv #	77
26) Hexane	5.71	57	117106	0.998	ppbv #	51
29) Chloroform	5.77	83	15587	0.065	ppbv	97
34) 2-Butanone	5.28	43	16657	0.124	ppbv	97
36) Benzene	6.92	78	14127	0.048	ppbv #	87
39) 1,2-Dichloropropane	7.20	63	829772	8.364	ppbv #	32
44) 2,2,4-Trimethylpentane	7.90	57	11844	0.031	ppbv #	49
53) Toluene	9.84	91	90208	0.244	ppbv	96
74) 1,2,4-Trimethylbenzene	16.81	105	38571	0.076	ppbv #	68
76) 1,4-Dichlorobenzene	17.19	146	15320	0.041	ppbv	94
79) Naphthalene	22.27	128	58809	0.104	ppbv #	92

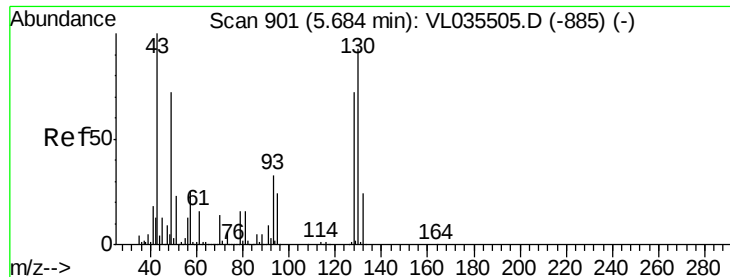
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

Instrument :

MSVOA_L

ClientSampleID :

IA-6DL

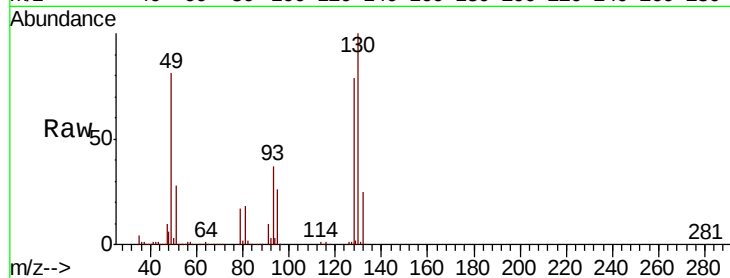
Tot Ion: 49 Resp: 1062814

Ion Ratio Lower Upper

49 100

128 96.6 50.0 150.1

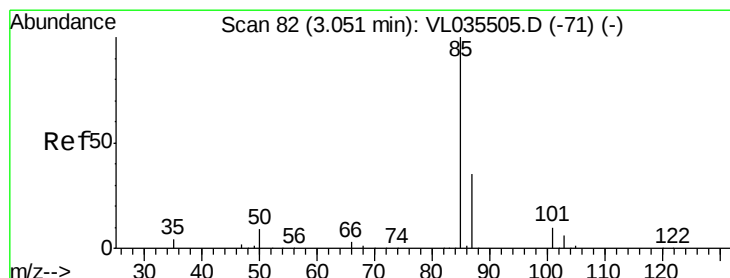
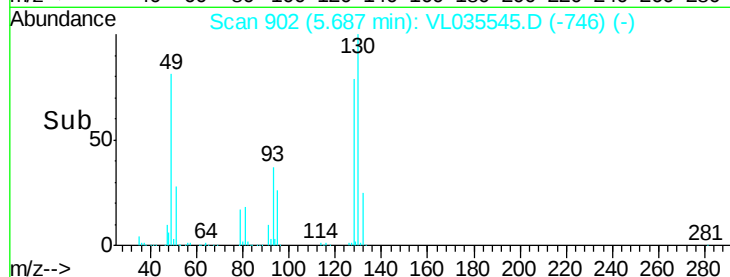
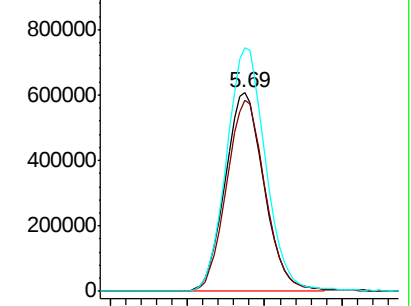
130 124.1 64.4 193.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.090 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL035545.D

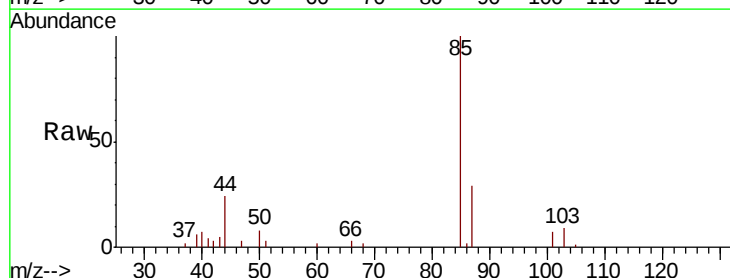
Acq: 4 Sep 2020 00:30

Tgt Ion: 85 Resp: 16624

Ion Ratio Lower Upper

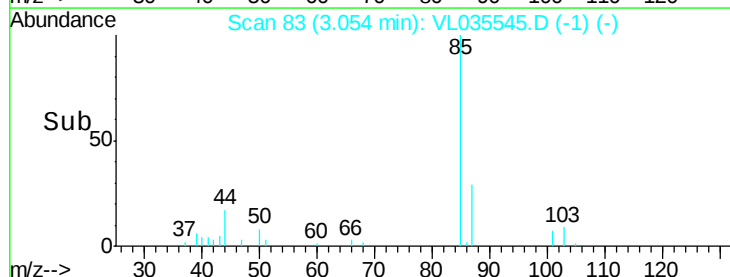
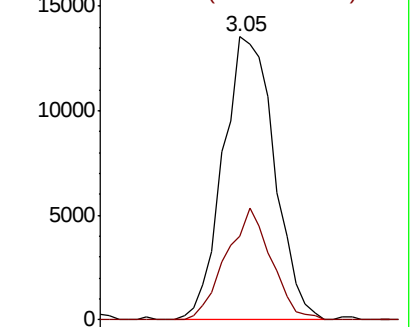
85 100

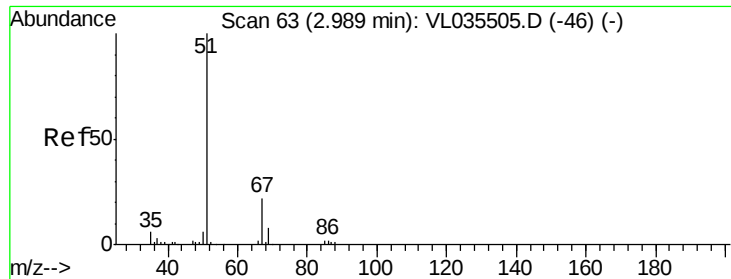
87 29.5 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.460 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

Instrument :

MSVOA_L

ClientSampleId :

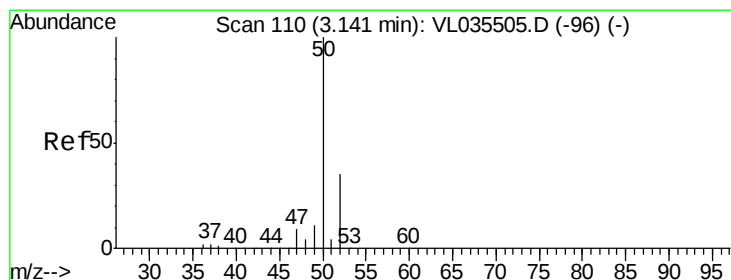
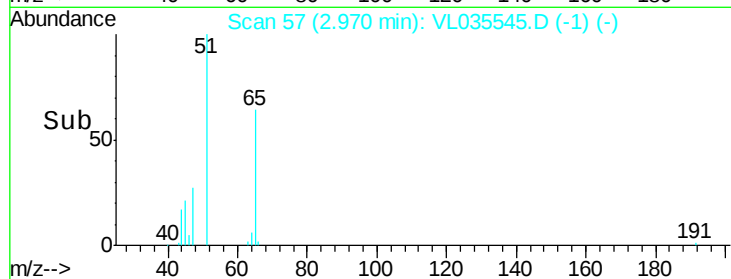
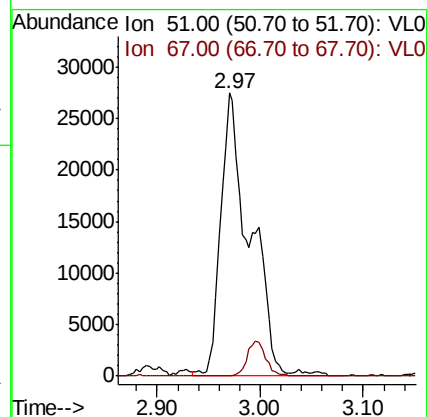
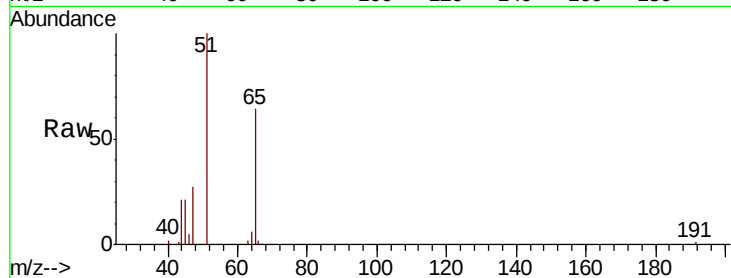
IA-6DL

Tot Ion: 51 Resp: 54073

Ion Ratio Lower Upper

51 100

67 8.0 17.8 26.8#



#4

Chloromethane

Concen: 0.056 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL035545.D

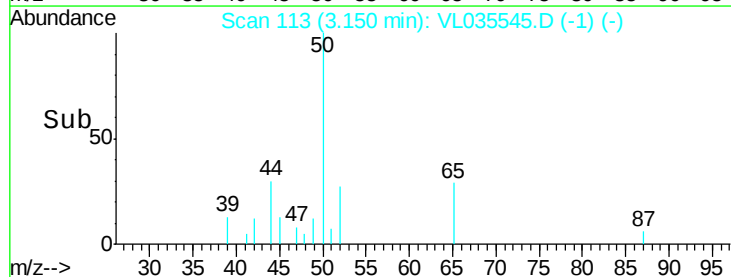
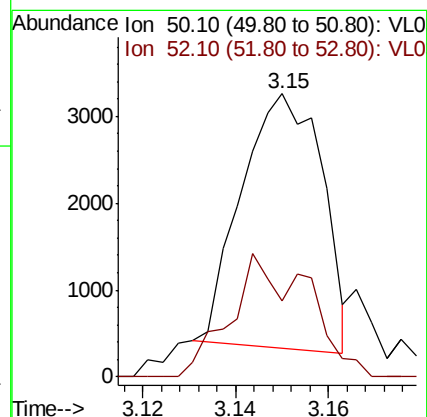
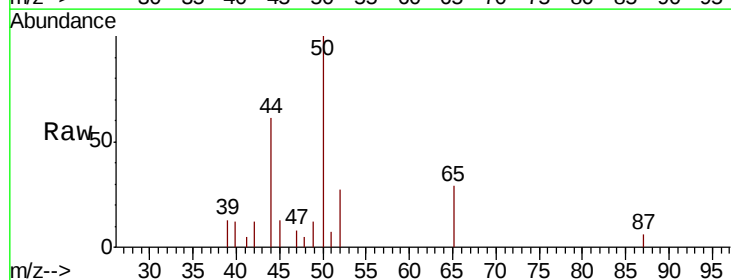
Acq: 4 Sep 2020 00:30

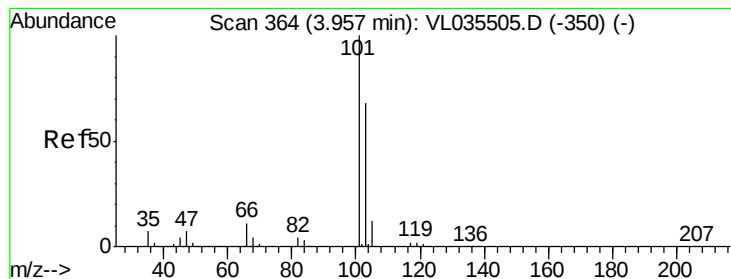
Tgt Ion: 50 Resp: 3535

Ion Ratio Lower Upper

50 100

52 24.9 27.7 41.5#





#11

Trichlorofluoromethane

Concen: 0.840 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

Instrument :

MSVOA_L

ClientSampleId :

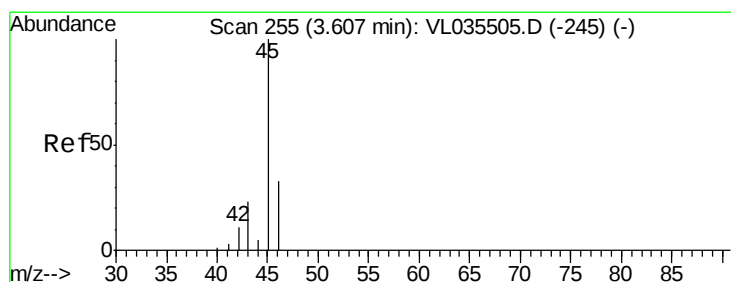
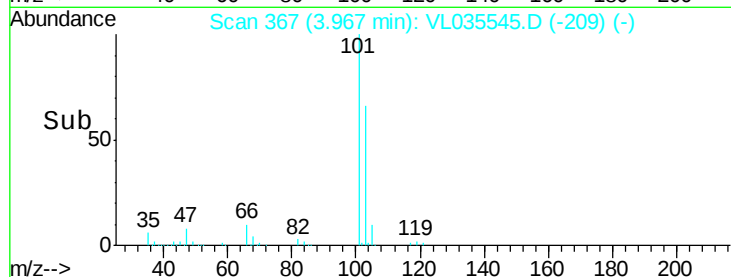
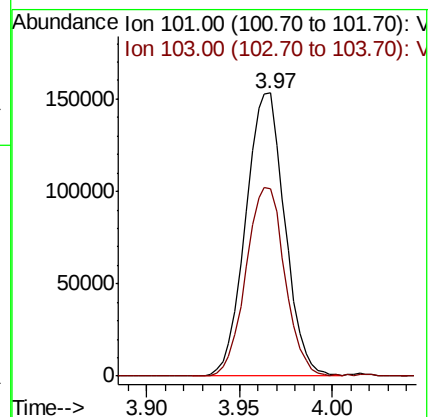
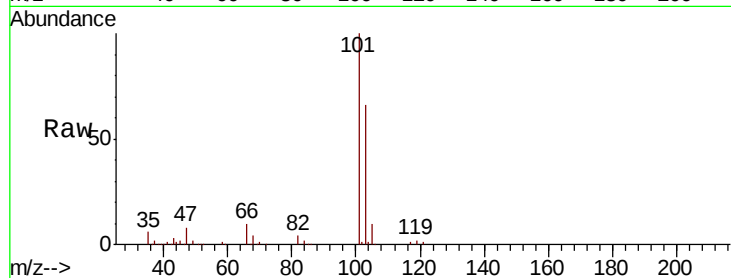
IA-6DL

Tot Ion:101 Resp: 225573

Ion Ratio Lower Upper

101 100

103 66.2 54.5 81.7



#13

Ethanol

Concen: 12.531 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL035545.D

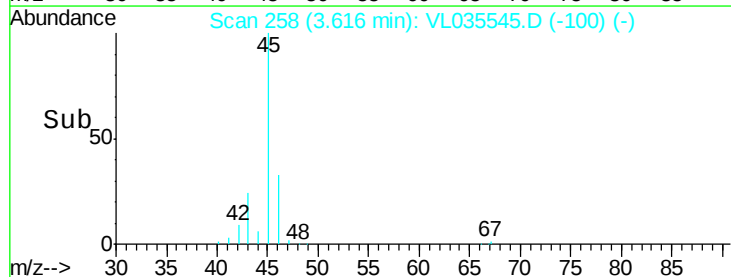
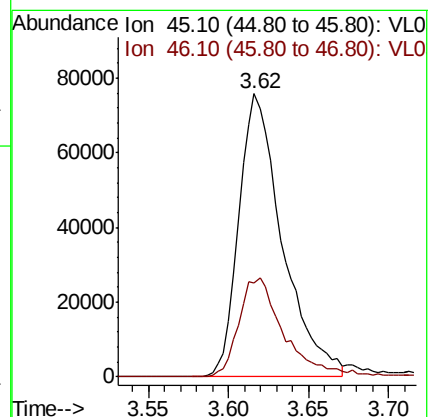
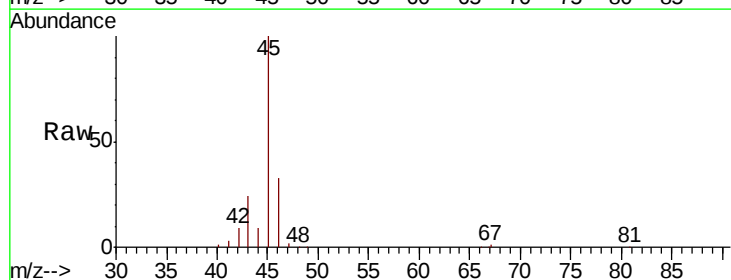
Acq: 4 Sep 2020 00:30

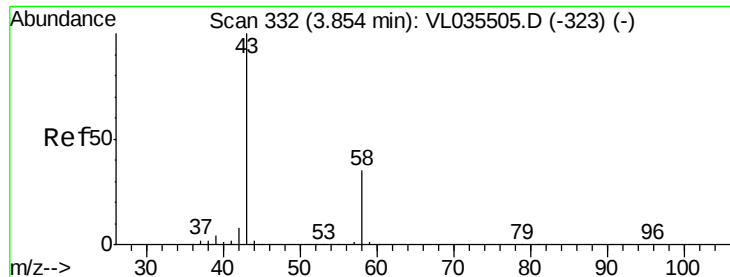
Tgt Ion: 45 Resp: 140791

Ion Ratio Lower Upper

45 100

46 37.0 15.2 60.6





#15

Acetone

Concen: 11.258 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

Instrument :

MSVOA_L

ClientSampleId :

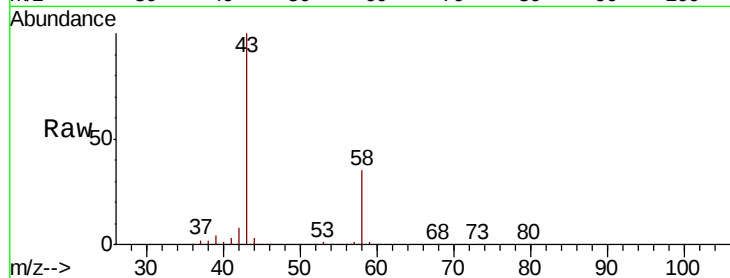
IA-6DL

Tot Ion: 43 Resp: 1319618

Ion Ratio Lower Upper

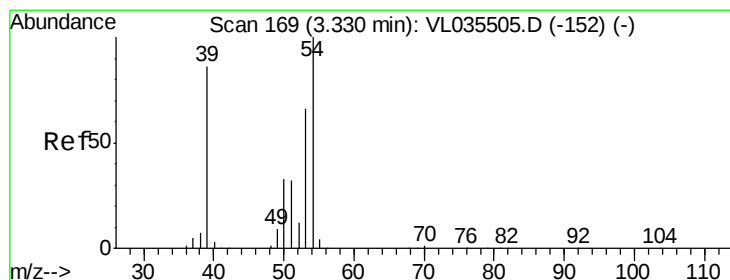
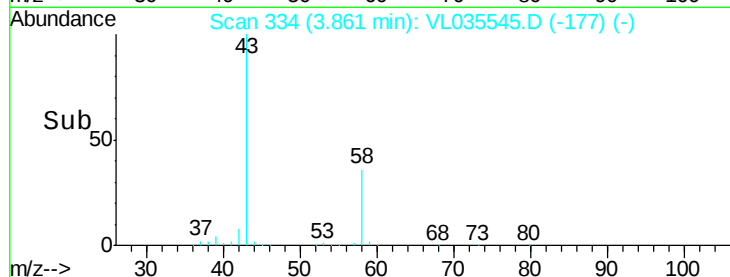
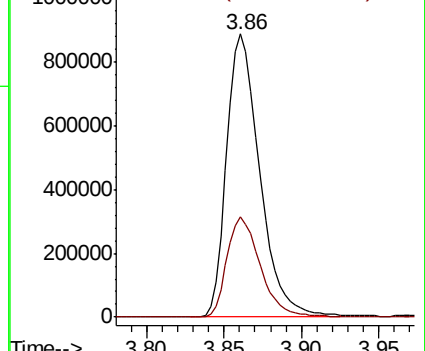
43 100

58 35.7 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.01 min

Lab File: VL035545.D

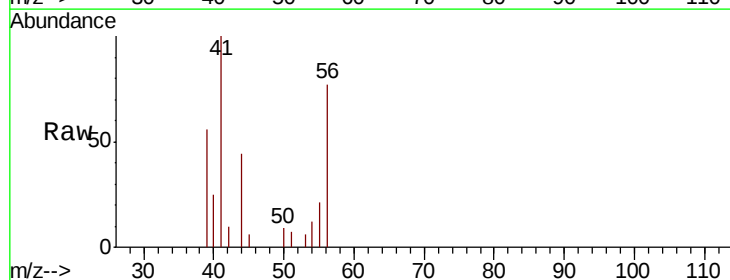
Acq: 4 Sep 2020 00:30

Tgt Ion: 39 Resp: 1465

Ion Ratio Lower Upper

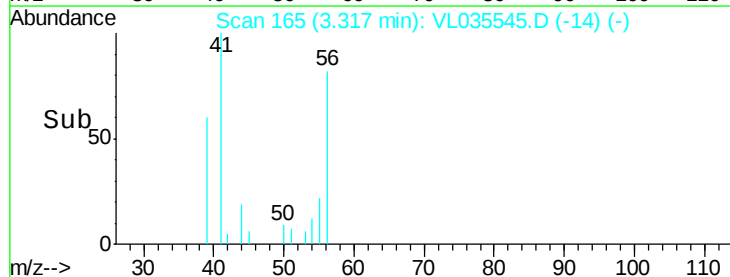
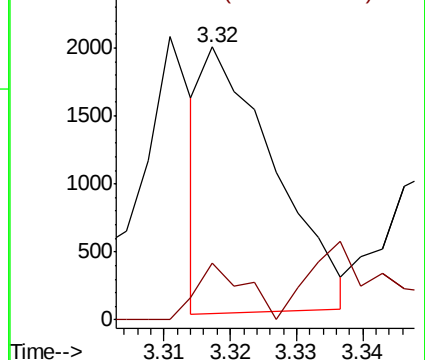
39 100

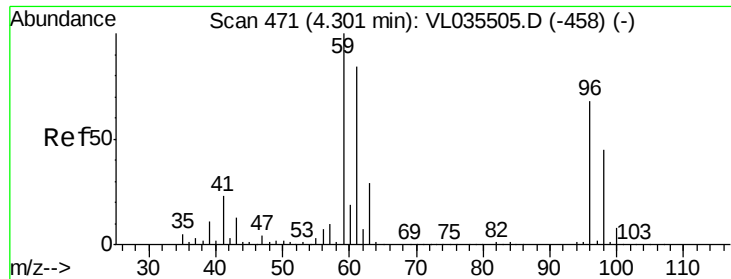
54 64.0 88.4 132.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.280 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.03 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

Instrument :

MSVOA_L

ClientSampleID :

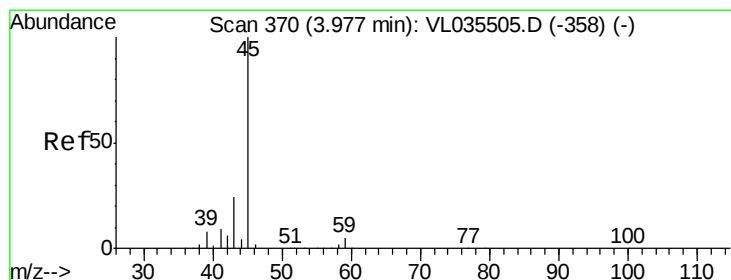
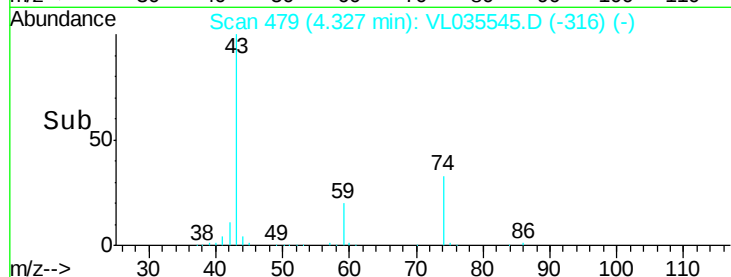
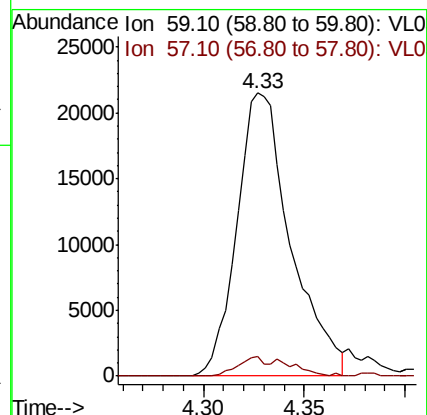
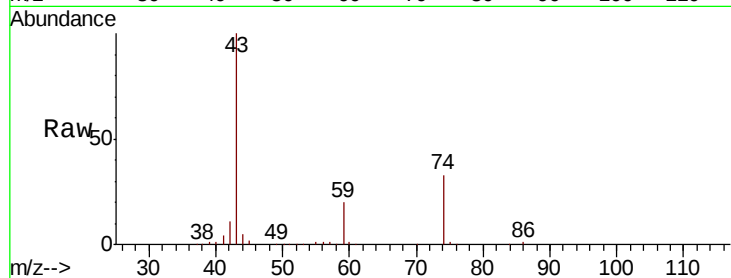
IA-6DL

Tot Ion: 59 Resp: 40008

Ion Ratio Lower Upper

59 100

57 6.4 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 1.886 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035545.D

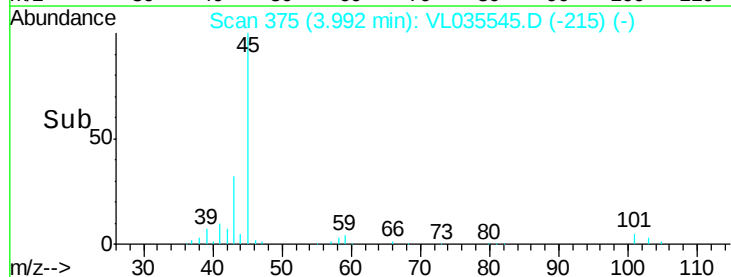
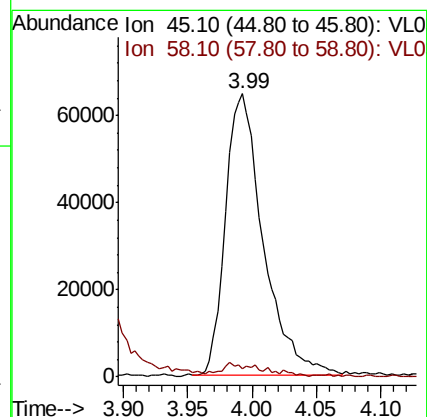
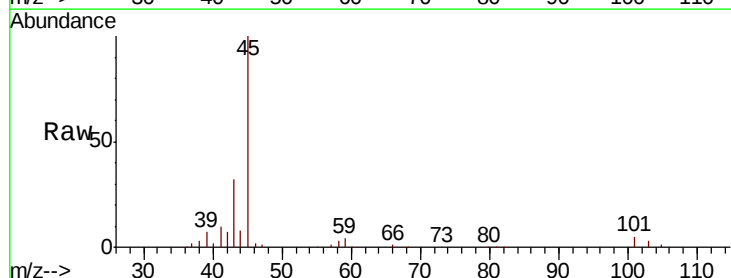
Acq: 4 Sep 2020 00:30

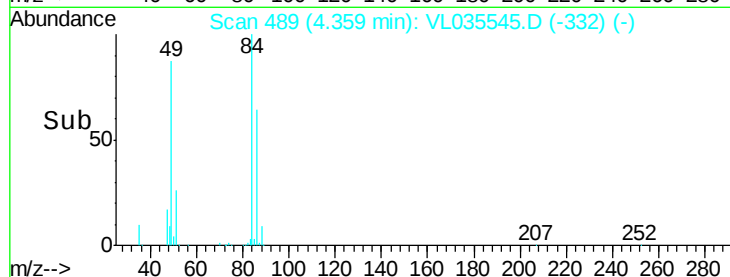
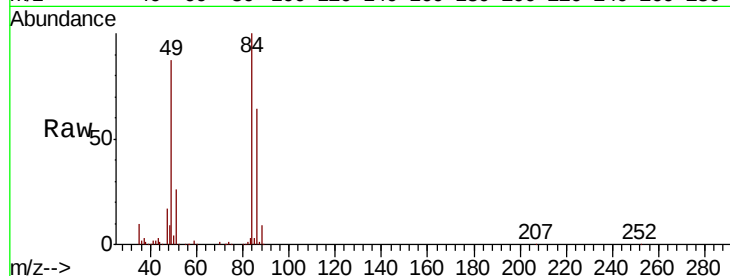
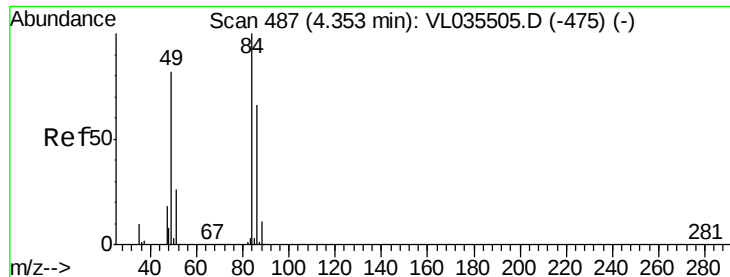
Tgt Ion: 45 Resp: 131864

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#

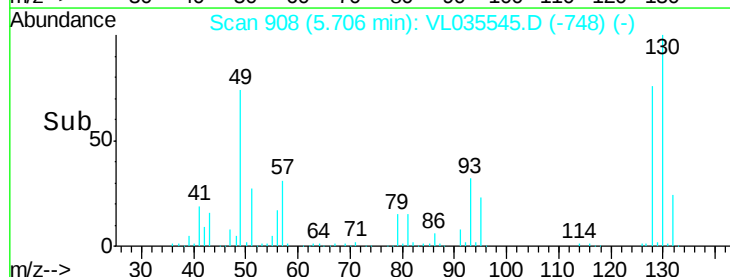
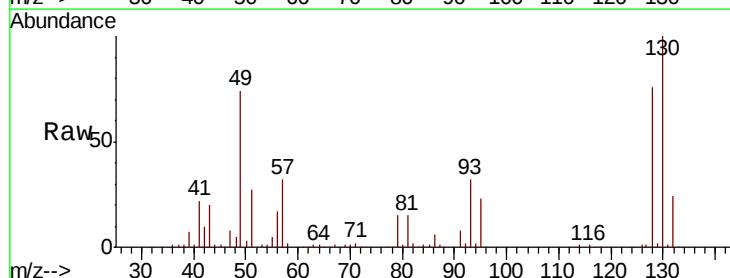
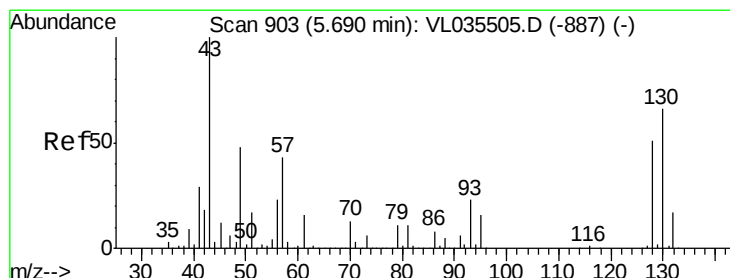
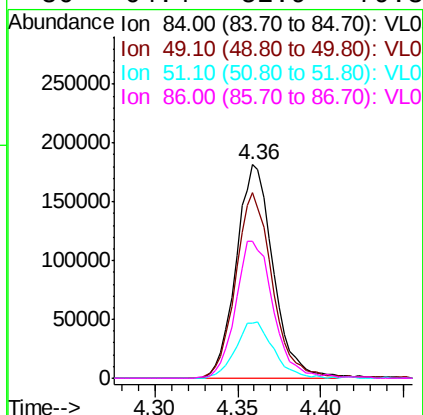




#20
Methvlene Chloride
Concen: 3.223 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.01 min
Lab File: VL035545.D
Acq: 4 Sep 2020 00:30

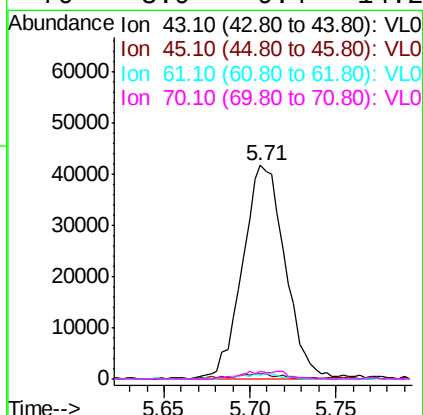
Instrument :
MSVOA_L
ClientSampled :
IA-6DL

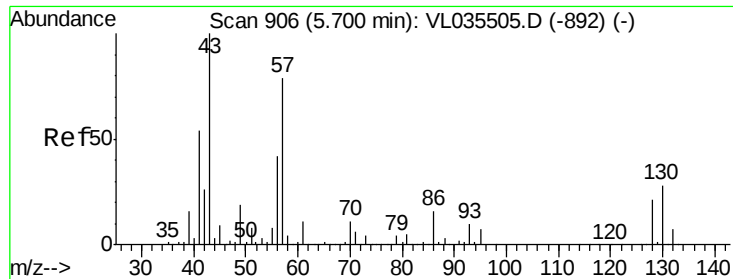
Tot Ion:	84	Resp:	281404
Ion	Ratio	Lower	Upper
84	100		
49	86.7	65.4	98.0
51	25.4	21.5	32.3
86	64.4	52.9	79.3



#25
Ethyl Acetate
Concen: 0.346 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.02 min
Lab File: VL035545.D
Acq: 4 Sep 2020 00:30

Tgt Ion:	43	Resp:	71586
Ion	Ratio	Lower	Upper
43	100		
45	3.0	8.4	12.6#
61	2.3	10.6	16.0#
70	3.9	9.4	14.2#

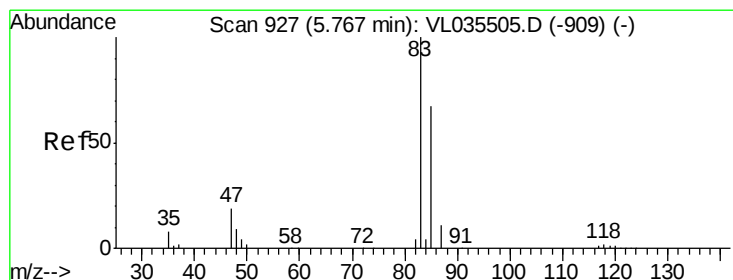
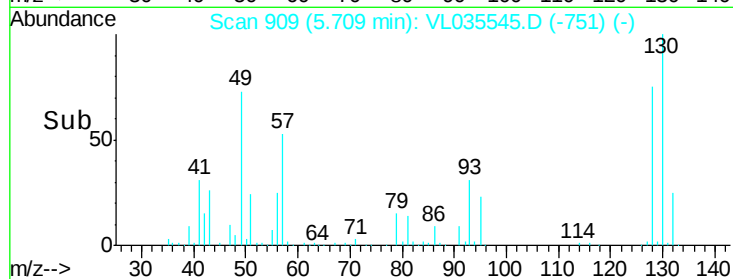
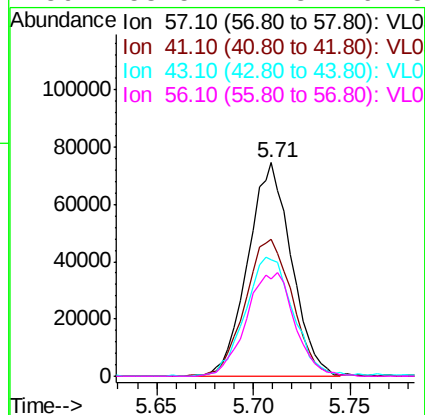
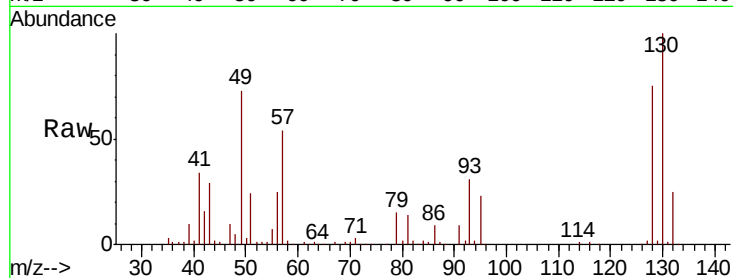




#26
Hexane
Concen: 0.998 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL035545.D
Acq: 4 Sep 2020 00:30

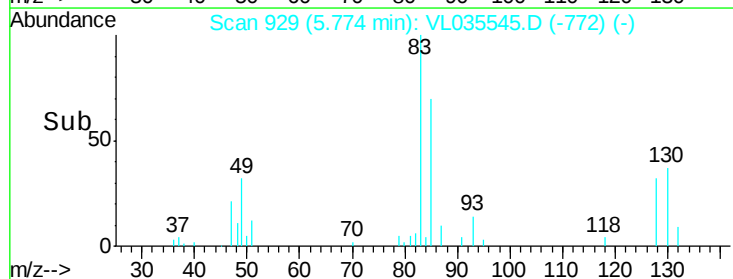
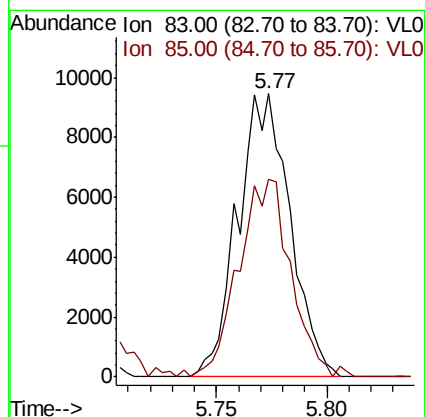
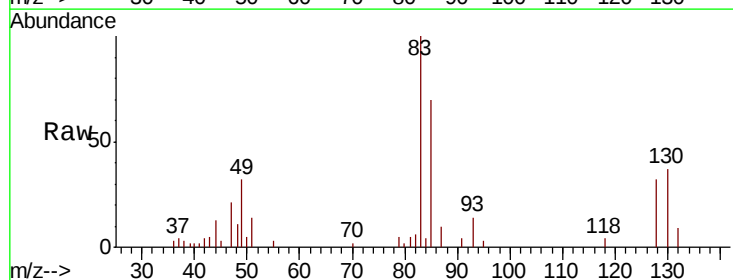
Instrument :
MSVOA_L
ClientSampleId :
IA-6DL

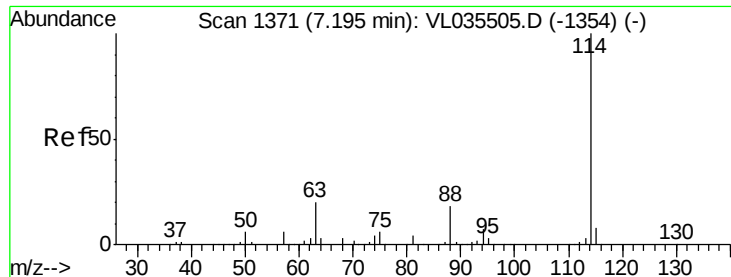
Tot Ion: 57 Resp: 117106
Ion Ratio Lower Upper
57 100
41 69.3 55.9 83.9
43 62.7 141.8 212.8#
56 53.5 41.8 62.8



#29
Chloroform
Concen: 0.065 ppbv
RT: 5.77 min Scan# 929
Delta R.T. 0.01 min
Lab File: VL035545.D
Acq: 4 Sep 2020 00:30

Tgt Ion: 83 Resp: 15587
Ion Ratio Lower Upper
83 100
85 69.9 53.9 80.9

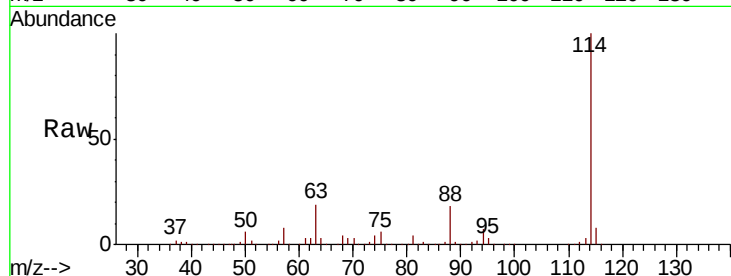




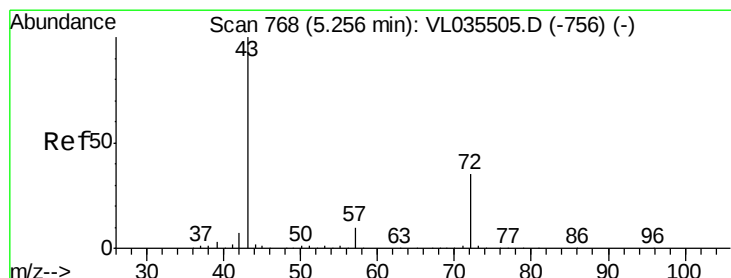
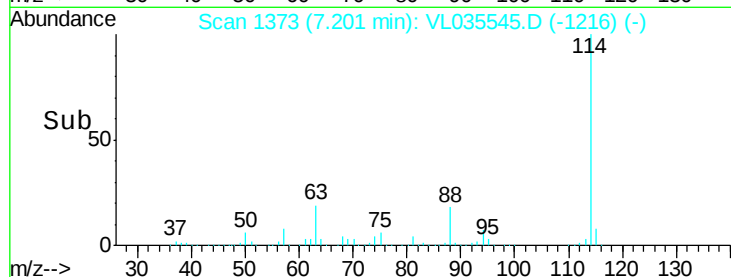
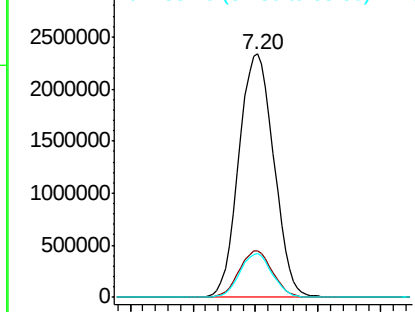
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.01 min
 Lab File: VL035545.D
 Acq: 4 Sep 2020 00:30

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6DL

Tot Ion:114 Resp: 4536919
 Ion Ratio Lower Upper
 114 100
 63 18.4 14.7 22.1
 88 16.8 13.4 20.2

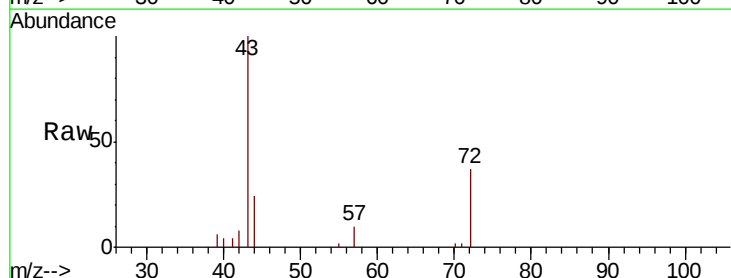


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

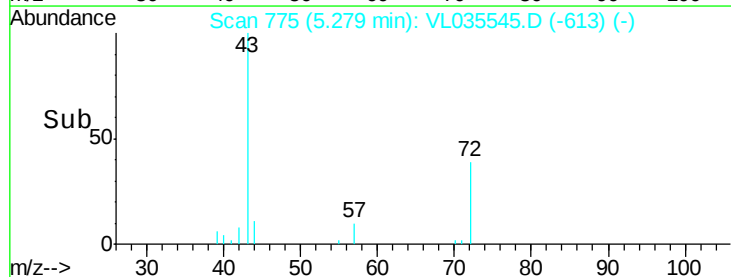
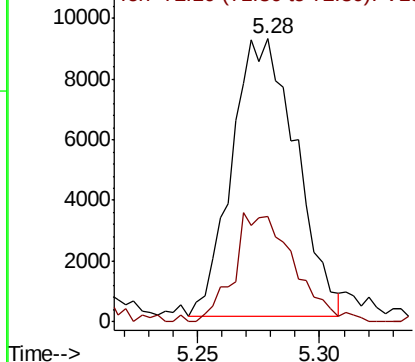


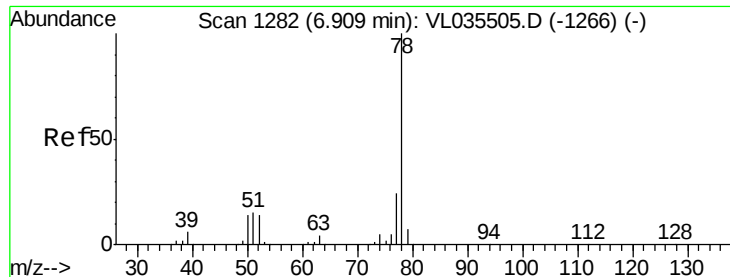
#34
 2-Butanone
 Concen: 0.124 ppbv
 RT: 5.28 min Scan# 775
 Delta R.T. 0.02 min
 Lab File: VL035545.D
 Acq: 4 Sep 2020 00:30

Tgt Ion: 43 Resp: 16657
 Ion Ratio Lower Upper
 43 100
 72 36.5 27.7 41.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.048 ppbv

RT: 6.92 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

Instrument :

MSVOA_L

ClientSampleId :

IA-6DL

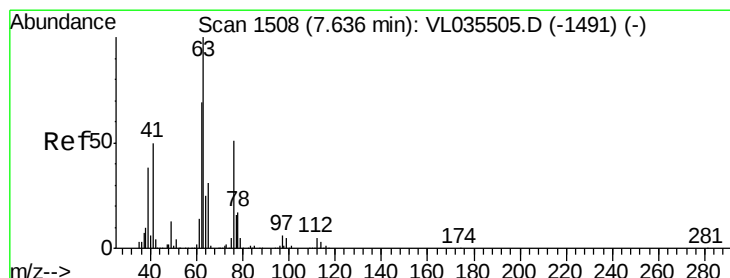
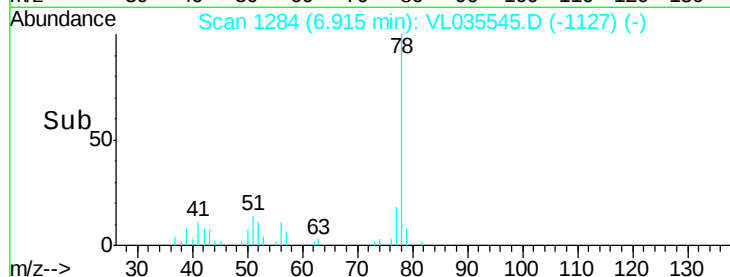
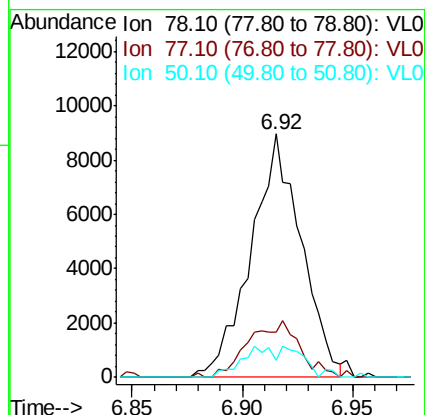
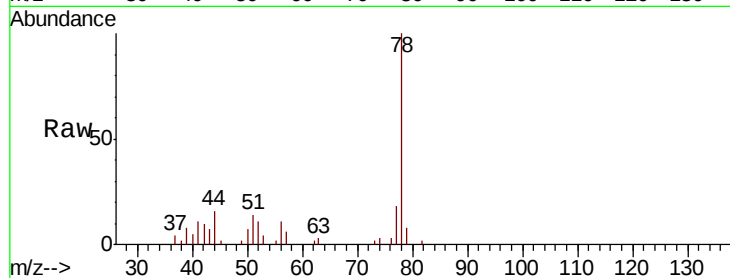
Tot Ion: 78 Resp: 14127

Ion Ratio Lower Upper

78 100

77 18.4 19.3 28.9#

50 6.9 11.0 16.6#



#39

1,2-Dichloropropane

Concen: 8.364 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. -0.43 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

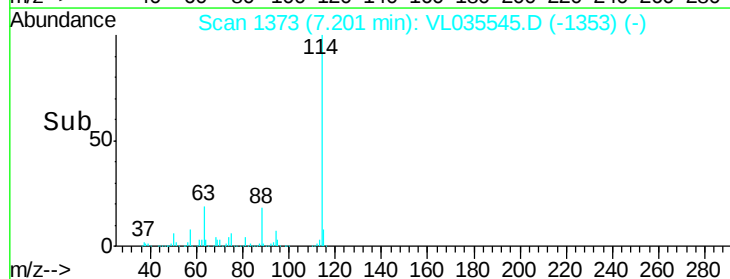
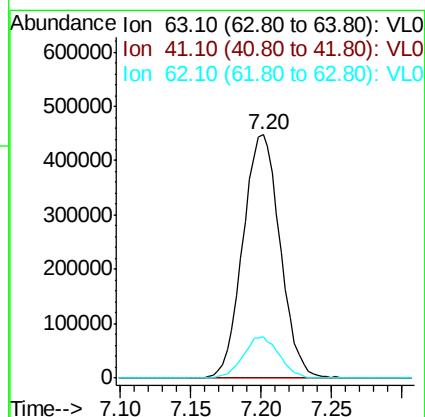
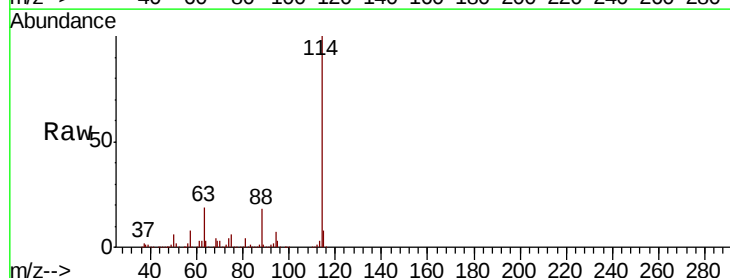
Tgt Ion: 63 Resp: 829772

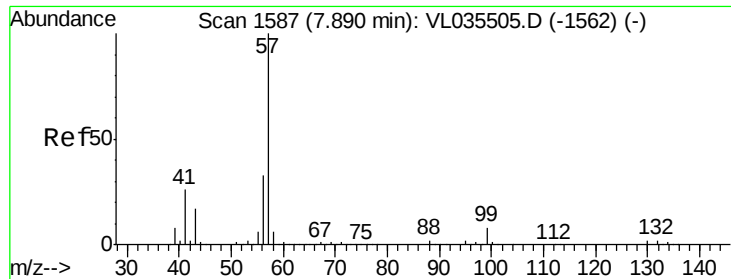
Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

62 16.8 55.4 83.0#

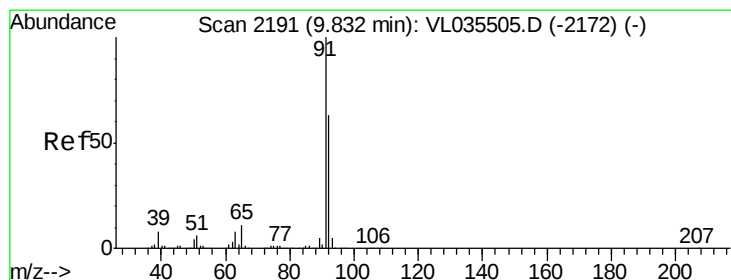
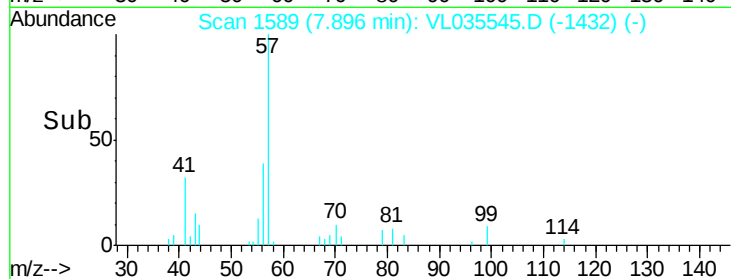
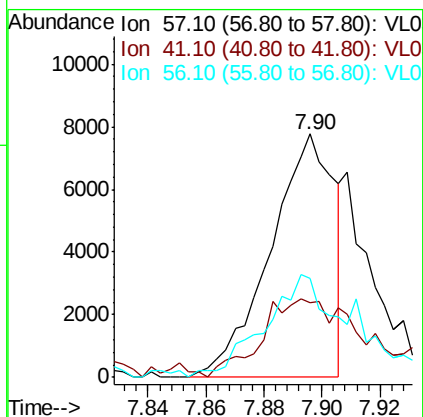
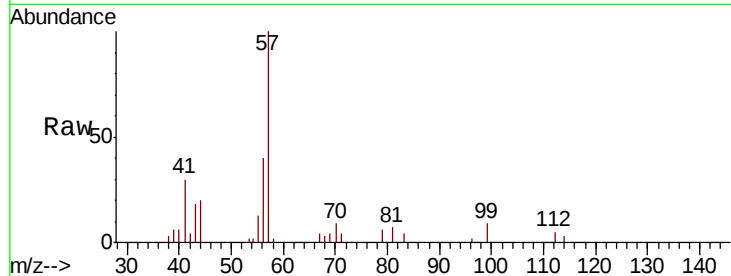




#44
 2,2,4-Trimethylpentane
 Concen: 0.031 ppbv
 RT: 7.90 min Scan# 1589
 Delta R.T. 0.01 min
 Lab File: VL035545.D
 Acq: 4 Sep 2020 00:30

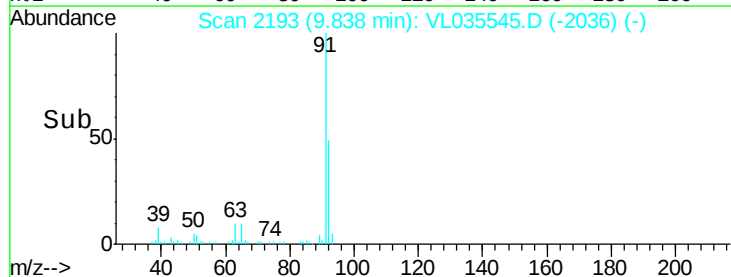
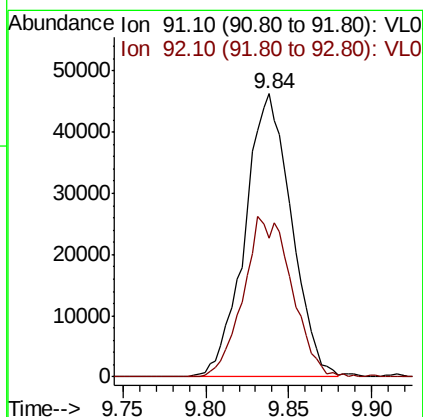
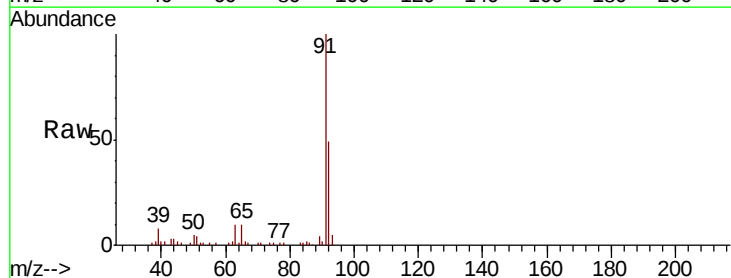
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6DL

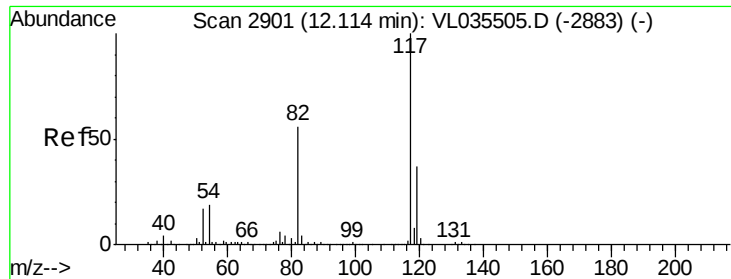
Tot Ion: 57 Resp: 11844
 Ion Ratio Lower Upper
 57 100
 41 49.7 20.5 30.7#
 56 61.8 25.3 37.9#



#53
 Toluene
 Concen: 0.244 ppbv
 RT: 9.84 min Scan# 2193
 Delta R.T. 0.01 min
 Lab File: VL035545.D
 Acq: 4 Sep 2020 00:30

Tgt Ion: 91 Resp: 90208
 Ion Ratio Lower Upper
 91 100
 92 58.8 49.8 74.8

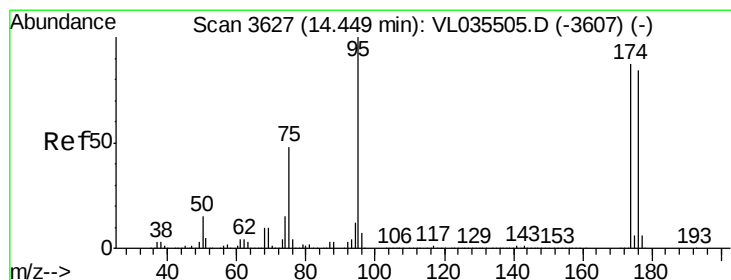
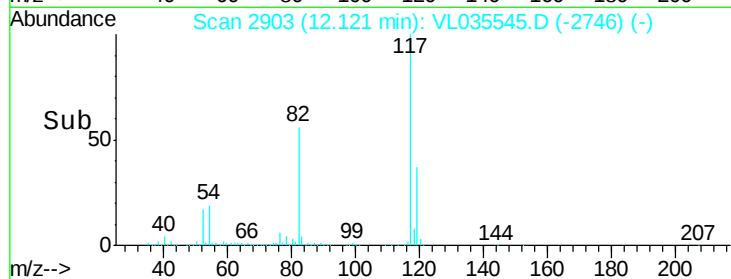
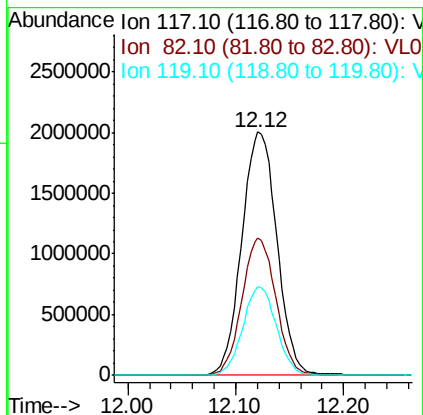
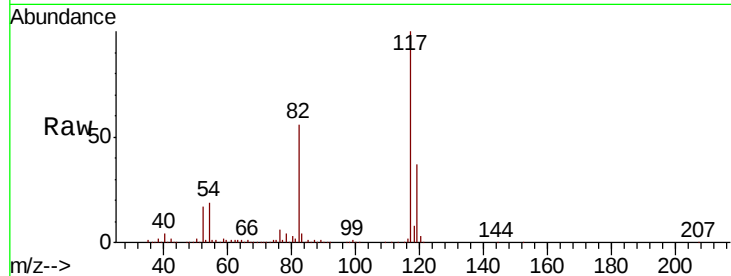




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL035545.D
Acq: 4 Sep 2020 00:30

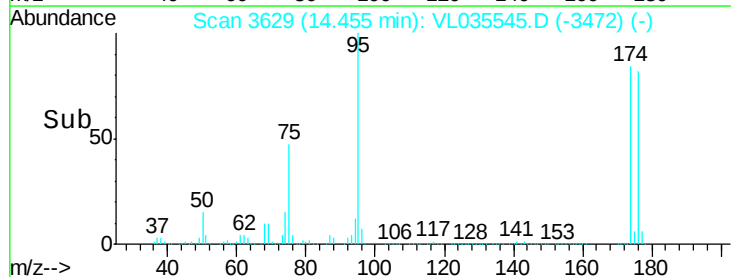
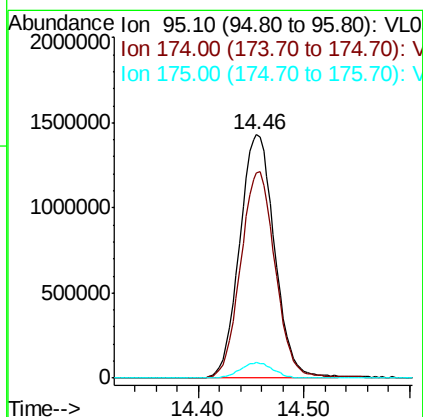
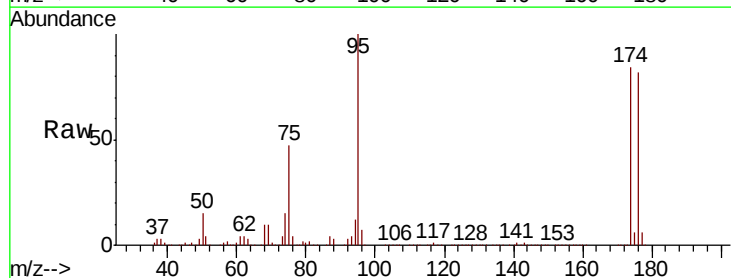
Instrument :
MSVOA_L
ClientSampleId :
IA-6DL

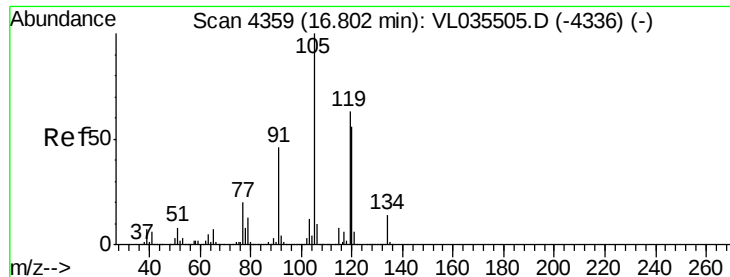
Tot Ion:117 Resp: 4532078
Ion Ratio Lower Upper
117 100
82 55.0 41.6 62.4
119 35.0 29.3 43.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.225 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. 0.01 min
Lab File: VL035545.D
Acq: 4 Sep 2020 00:30

Tgt Ion: 95 Resp: 3291020
Ion Ratio Lower Upper
95 100
174 84.9 69.6 104.4
175 6.2 5.1 7.7





#74

1,2,4-Trimethylbenzene

Concen: 0.076 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.00 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

Instrument :

MSVOA_L

ClientSampleId :

IA-6DL

Tot Ion:105 Resp: 38571

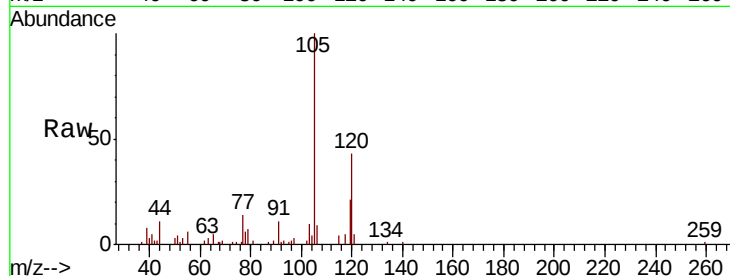
Ion Ratio Lower Upper

105 100

120 43.0 44.4 66.6#

91 9.7 37.1 55.7#

77 12.3 16.0 24.0#

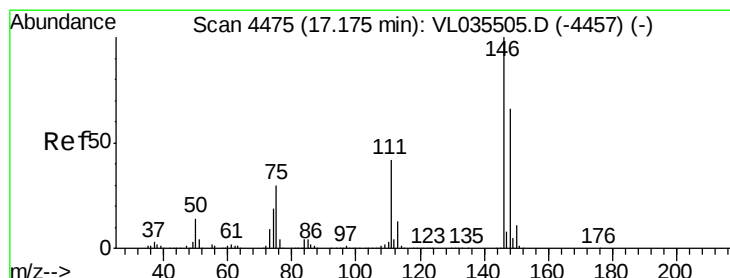
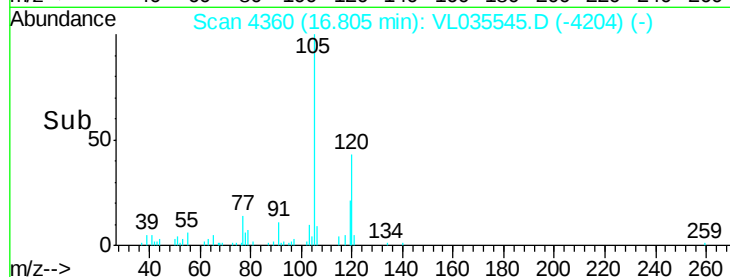
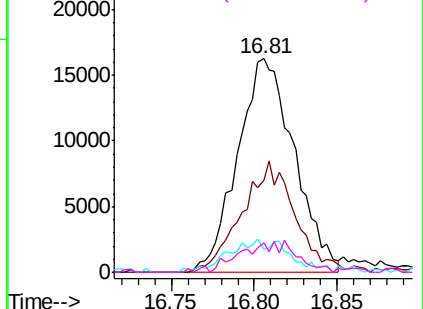


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#76

1,4-Dichlorobenzene

Concen: 0.041 ppbv

RT: 17.19 min Scan# 4479

Delta R.T. 0.01 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

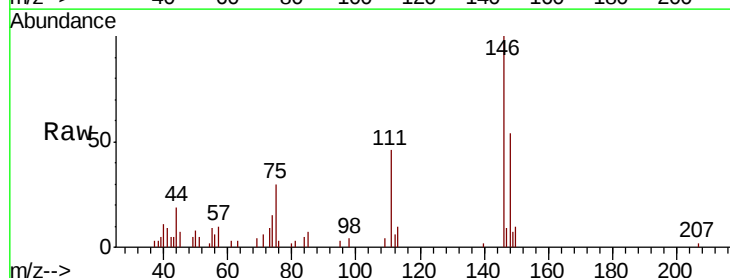
Tgt Ion:146 Resp: 15320

Ion Ratio Lower Upper

146 100

111 46.1 20.0 60.0

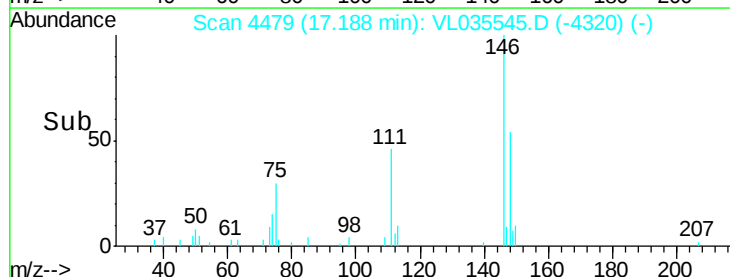
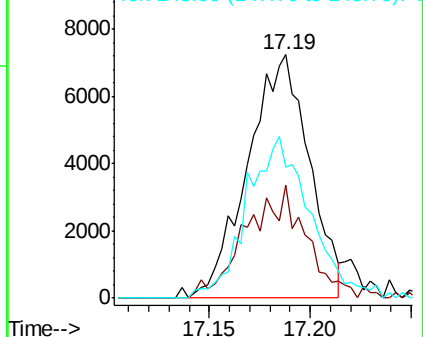
148 68.7 33.2 99.6

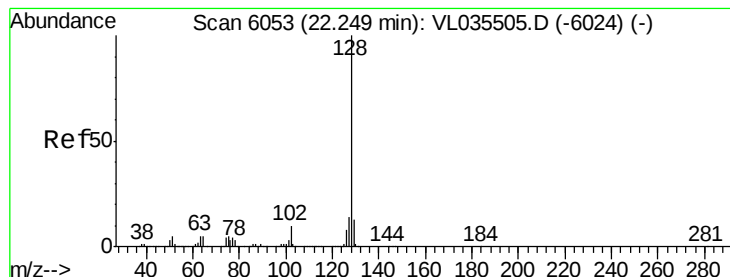


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 0.104 ppbv

RT: 22.27 min Scan# 6059

Delta R.T. 0.02 min

Lab File: VL035545.D

Acq: 4 Sep 2020 00:30

Instrument :

MSVOA_L

ClientSampleId :

IA-6DL

Tot Ion:128 Resp: 58809

Ion Ratio Lower Upper

128 100

127 12.3 11.4 17.2

129 8.4 10.5 15.7#

