

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035631.D
 Acq On : 16 Sep 2020 16:26
 Operator : SY/AP
 Sample : L4026-01DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TRC-IA-01DL

Quant Time: Sep 17 07:07:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1249598	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4851696	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4788671	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3535129	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	20558	0.095	ppbv	88
3) Chlorodifluoromethane	2.98	51	37272	0.270	ppbv #	76
4) Chloromethane	3.13	50	10522	0.142	ppbv	96
9) Propene	3.01	41	7156	0.134	ppbv	85
11) Trichlorofluoromethane	3.94	101	16602	0.053	ppbv	89
13) Ethanol	3.60	45	3957978	299.614	ppbv	99
15) Acetone	3.84	43	313709	2.276	ppbv	97
17) tert-Butyl alcohol	4.31	59	12121	0.072	ppbv #	78
19) Isopropyl Alcohol	3.98	45	198285	2.412	ppbv #	92
20) Methylene Chloride	4.34	84	683603	6.660	ppbv	97
21) Allyl Chloride	4.33	41	13247	0.205	ppbv #	19
23) Vinyl Acetate	5.06	43	14380	0.081	ppbv #	86
25) Ethyl Acetate	5.68	43	114588	0.471	ppbv #	73
26) Hexane	5.68	57	204565	1.483	ppbv #	48
34) 2-Butanone	5.24	43	17380	0.121	ppbv	100
39) 1,2-Dichloropropane	7.17	63	938599	8.847	ppbv #	33
41) Tetrahydrofuran	5.68	42	64289	0.842	ppbv #	36
53) Toluene	9.81	91	24847	0.063	ppbv	94

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL035631.D

Acq: 16 Sep 2020 16:26

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-01DL

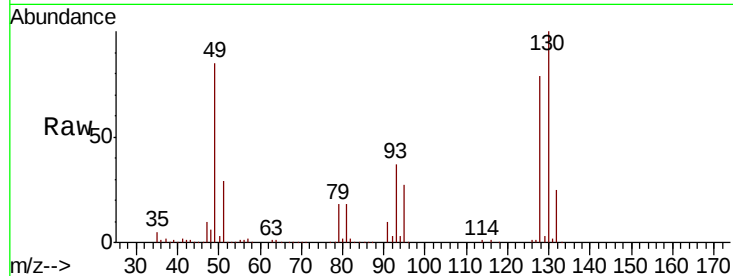
Tot Ion: 49 Resp: 1249598

Ion Ratio Lower Upper

49 100

128 89.9 50.0 150.1

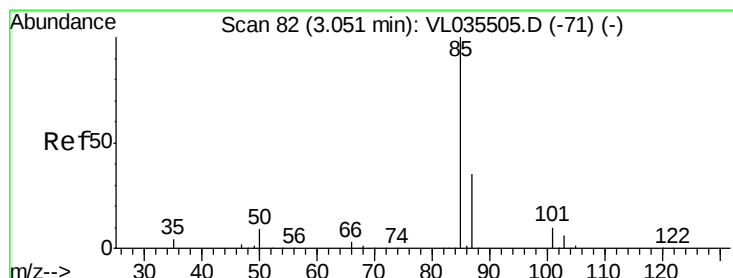
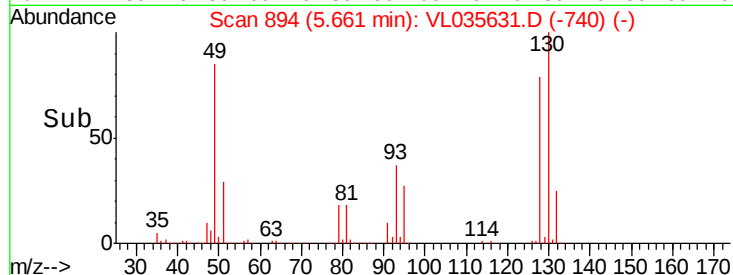
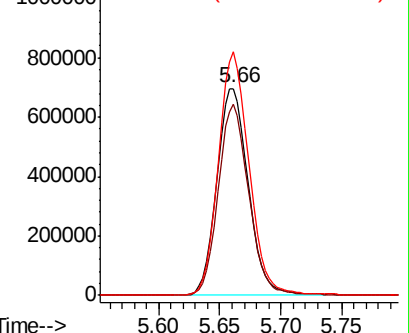
130 115.2 64.4 193.2



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: 0.095 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL035631.D

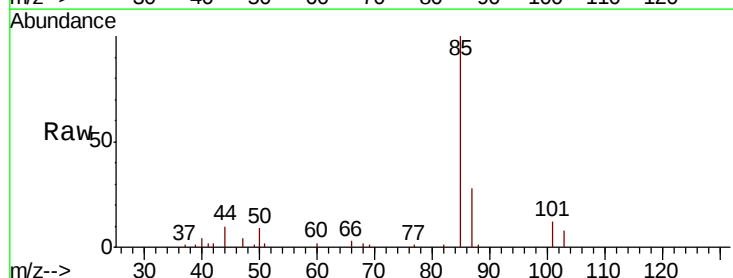
Acq: 16 Sep 2020 16:26

Tgt Ion: 85 Resp: 20558

Ion Ratio Lower Upper

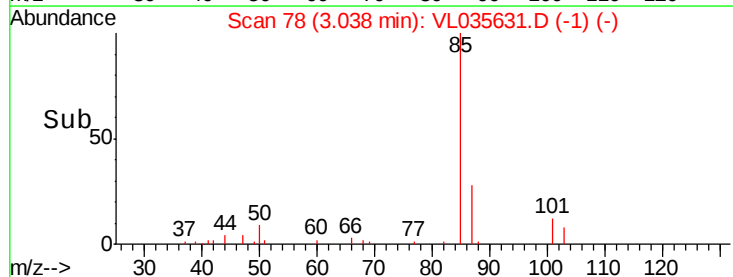
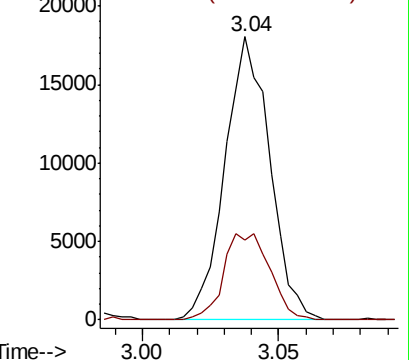
85 100

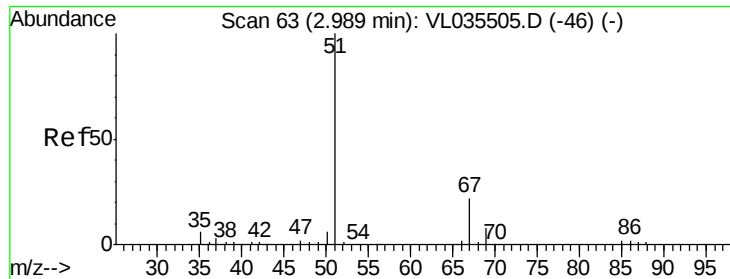
87 28.2 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.270 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL035631.D

Acq: 16 Sep 2020 16:26

Instrument :

MSVOA_L

ClientSampleId :

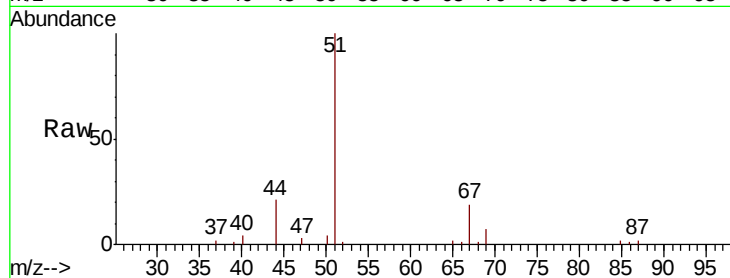
TRC-IA-01DL

Tot Ion: 51 Resp: 37272

Ion Ratio Lower Upper

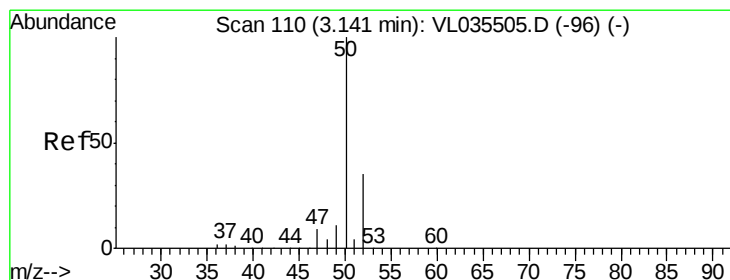
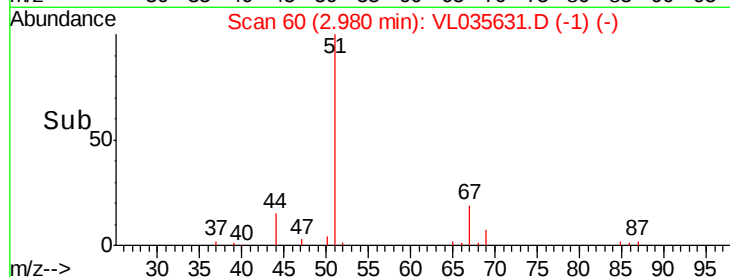
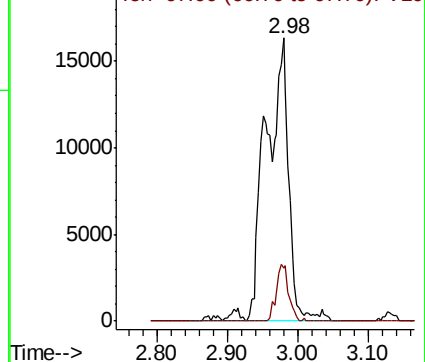
51 100

67 10.8 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.142 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL035631.D

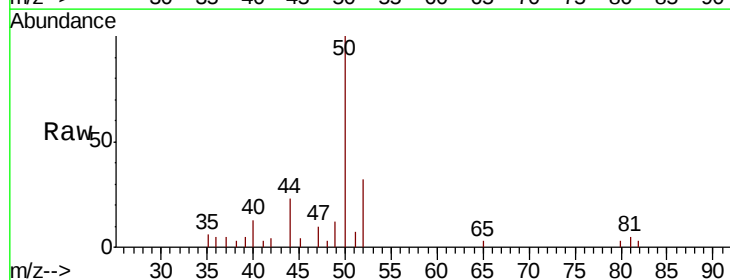
Acq: 16 Sep 2020 16:26

Tgt Ion: 50 Resp: 10522

Ion Ratio Lower Upper

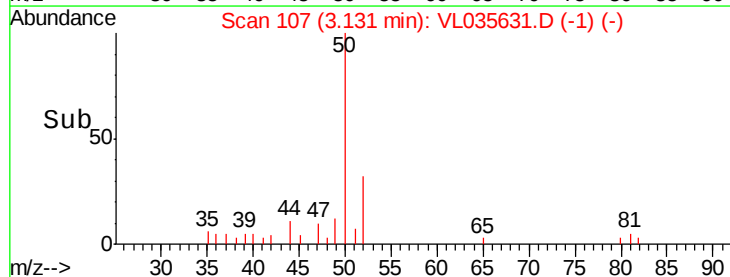
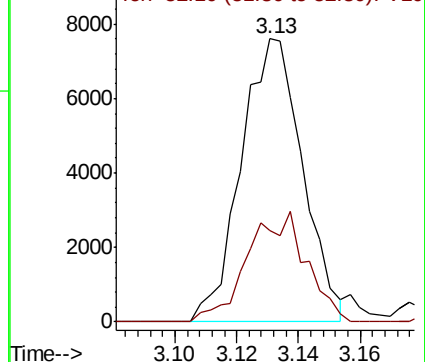
50 100

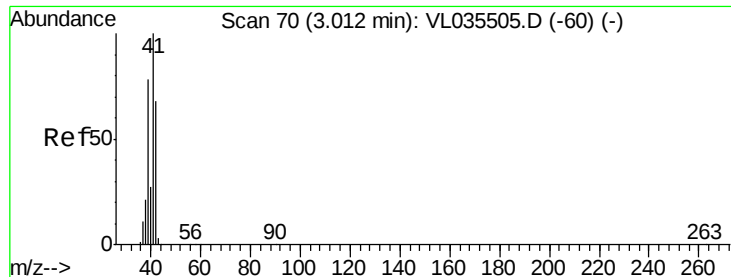
52 32.1 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.134 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL035631.D

Acq: 16 Sep 2020 16:26

Instrument :

MSVOA_L

ClientSampleId :

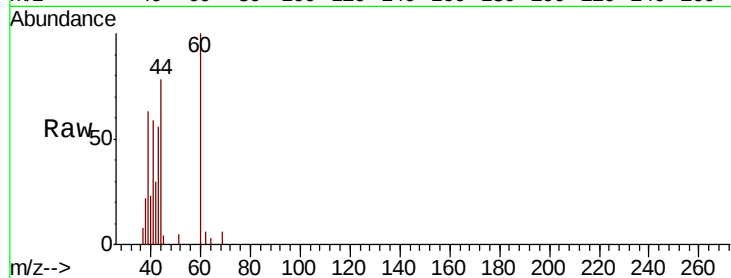
TRC-IA-01DL

Tot Ion: 41 Resp: 7156

Ion Ratio Lower Upper

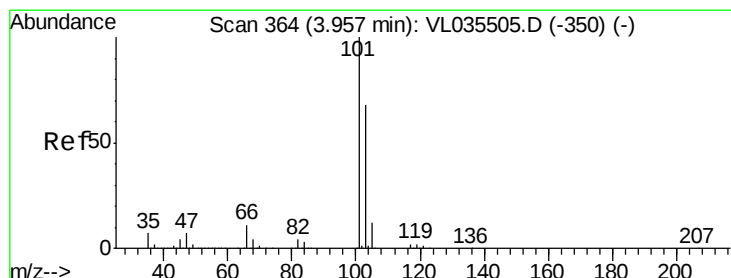
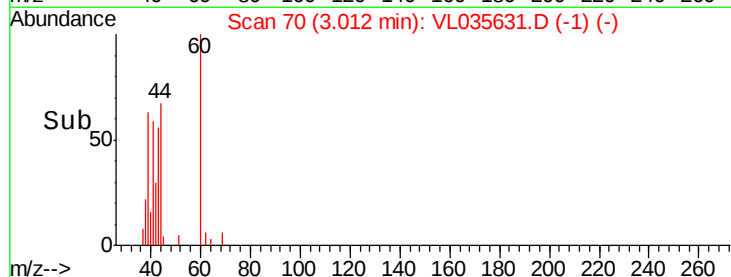
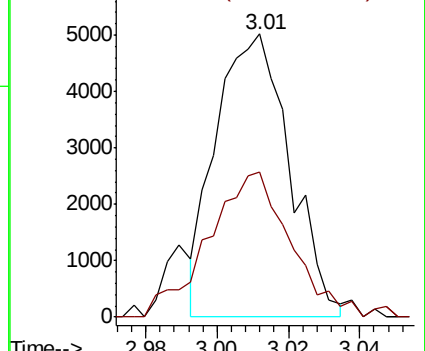
41 100

42 57.9 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.053 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL035631.D

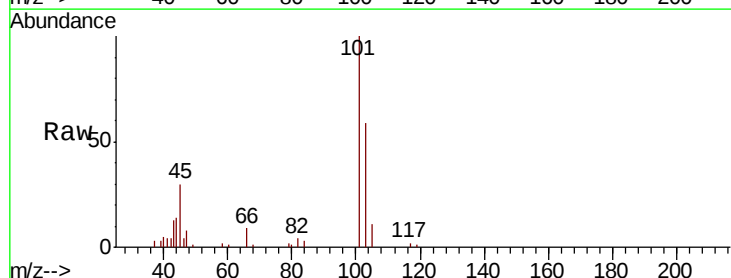
Acq: 16 Sep 2020 16:26

Tgt Ion: 101 Resp: 16602

Ion Ratio Lower Upper

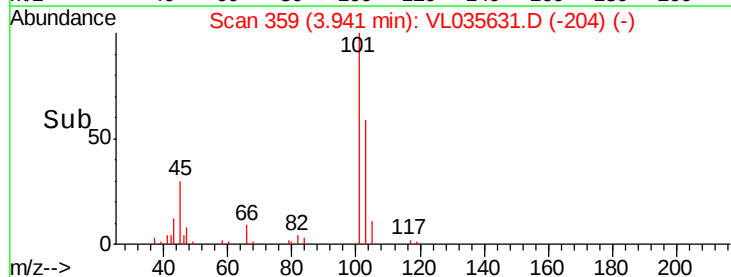
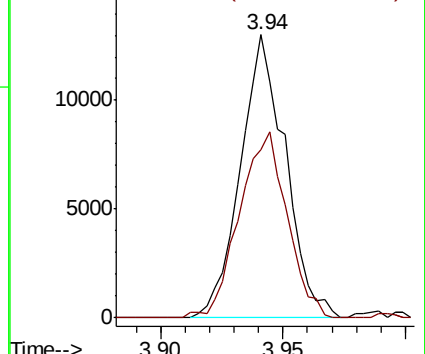
101 100

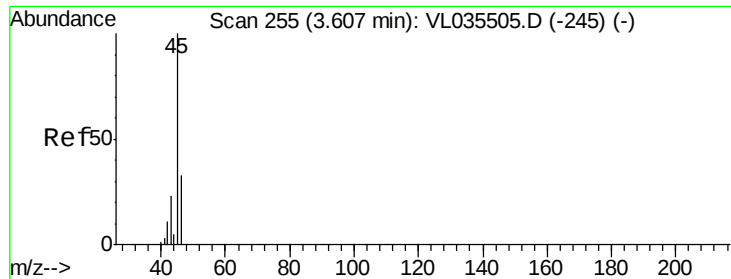
103 59.5 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

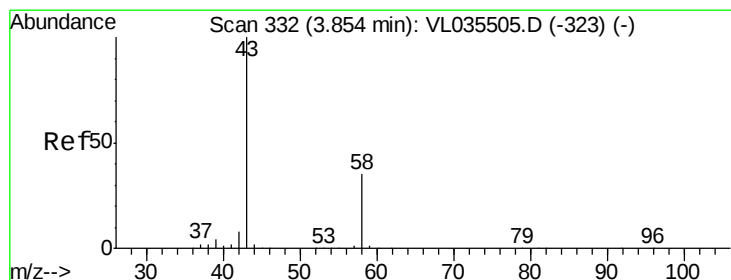
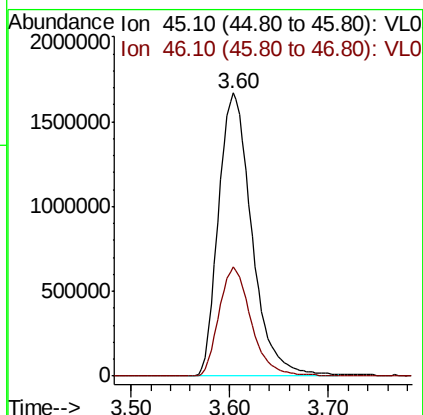
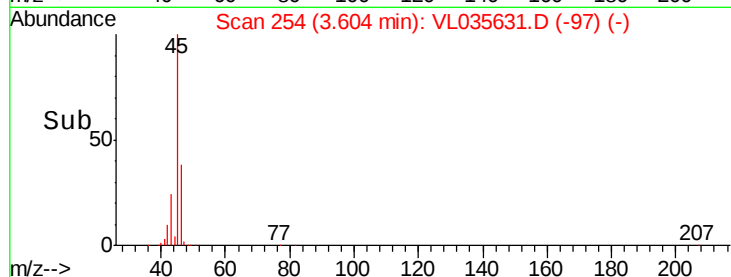
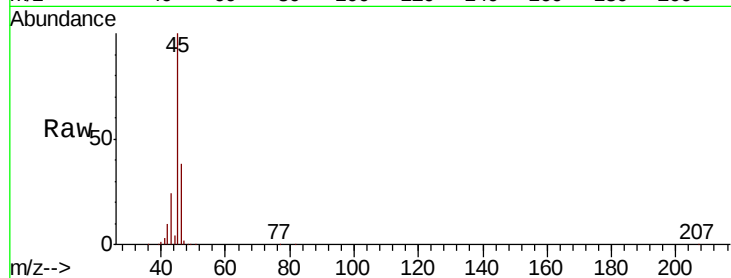




#13
Ethanol
Concen: 299.614 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.01 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

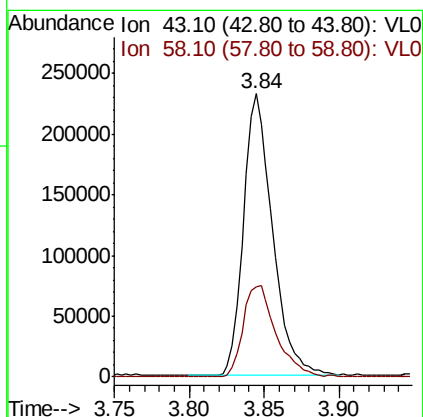
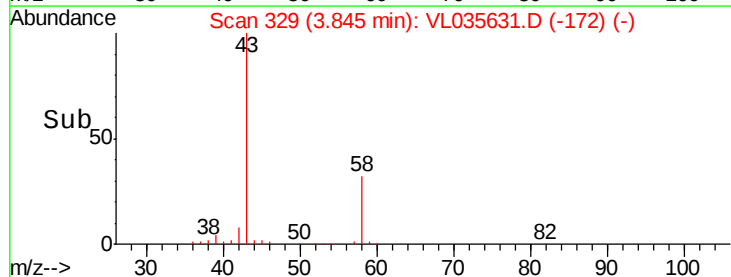
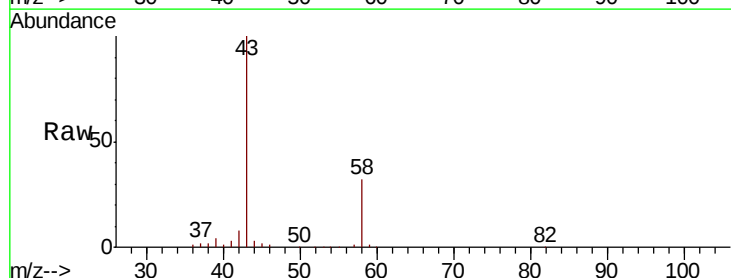
Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-01DL

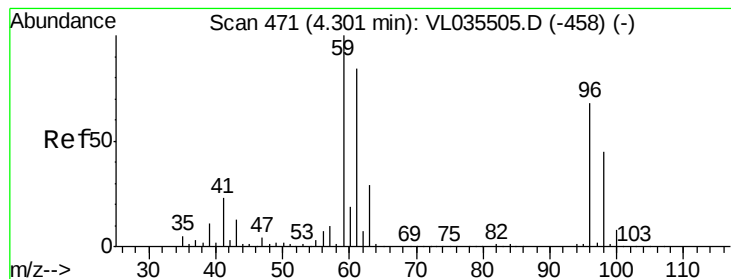
Tot Ion: 45 Resp: 3957978
Ion Ratio Lower Upper
45 100
46 37.5 15.2 60.6



#15
Acetone
Concen: 2.276 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

Tgt Ion: 43 Resp: 313709
Ion Ratio Lower Upper
43 100
58 37.0 28.4 42.6





#17

tert-Butyl alcohol

Concen: 0.072 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.03 min

Lab File: VL035631.D

Acq: 16 Sep 2020 16:26

Instrument :

MSVOA_L

ClientSampleID :

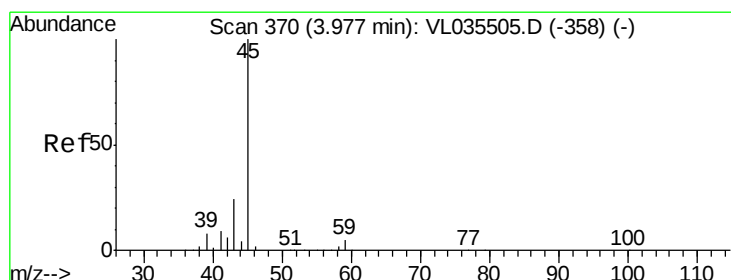
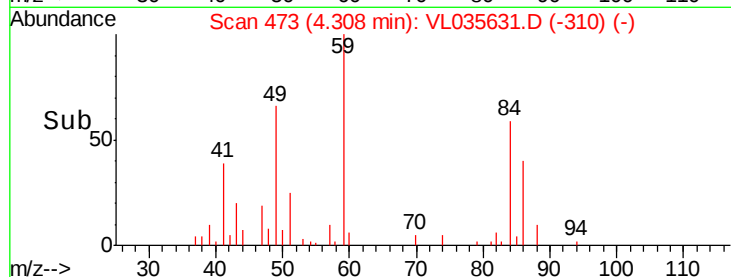
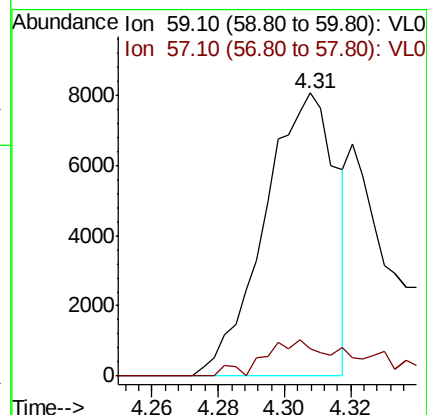
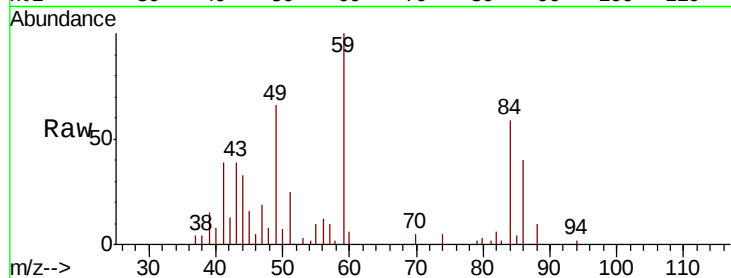
TRC-IA-01DL

Tot Ion: 59 Resp: 12121

Ion Ratio Lower Upper

59 100

57 18.7 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 2.412 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL035631.D

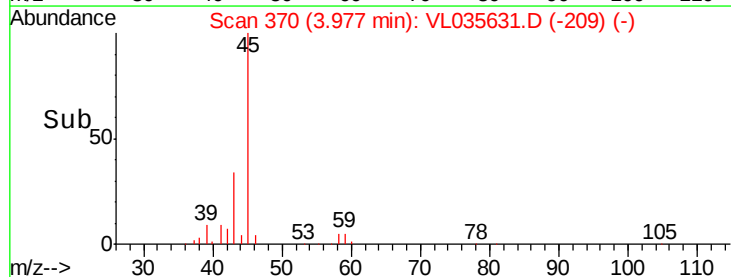
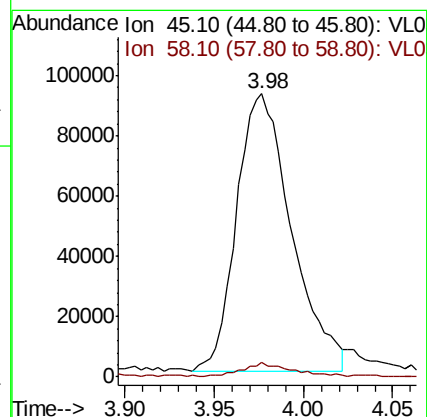
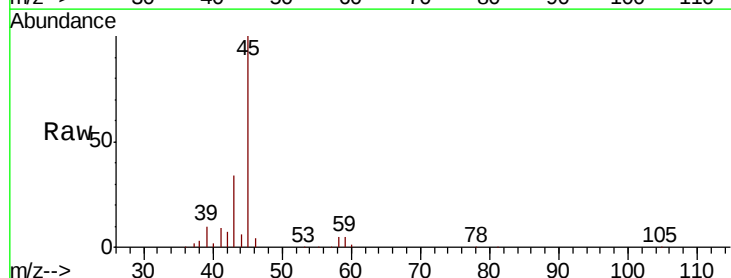
Acq: 16 Sep 2020 16:26

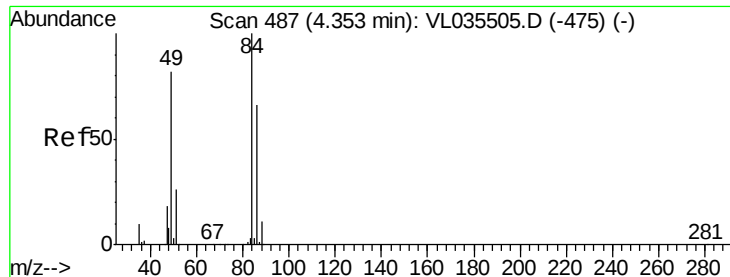
Tgt Ion: 45 Resp: 198285

Ion Ratio Lower Upper

45 100

58 5.3 2.0 3.0#

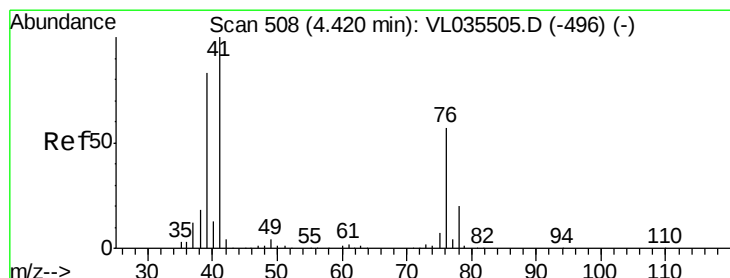
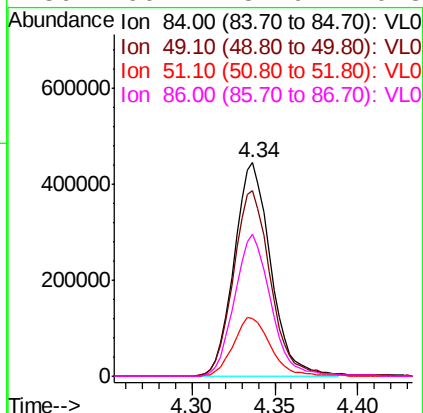
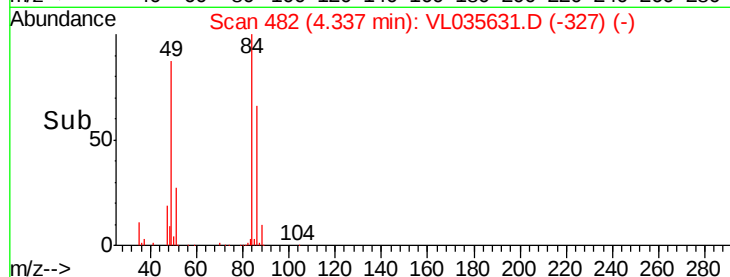
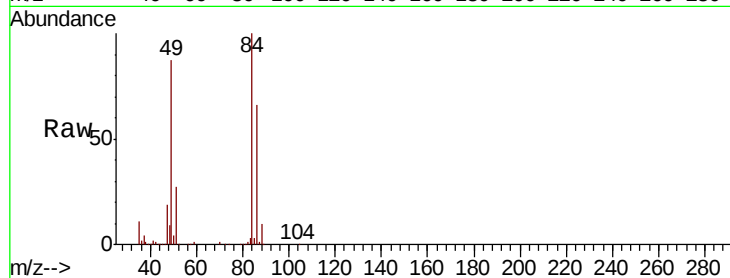




#20
Methylene Chloride
Concen: 6.660 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

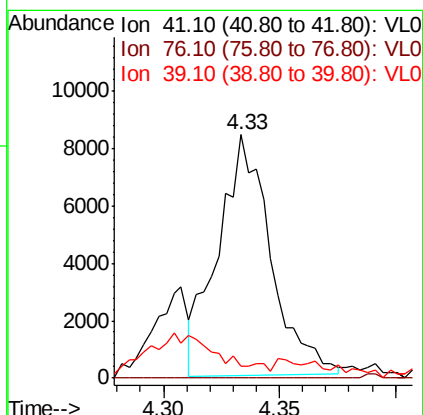
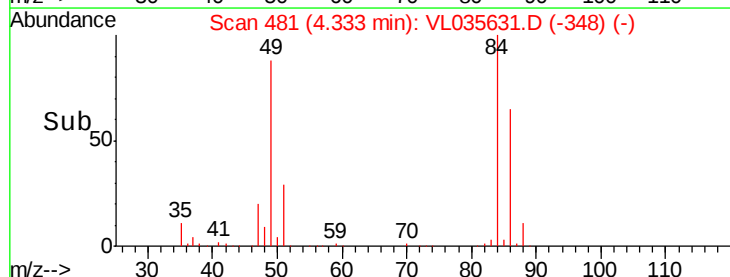
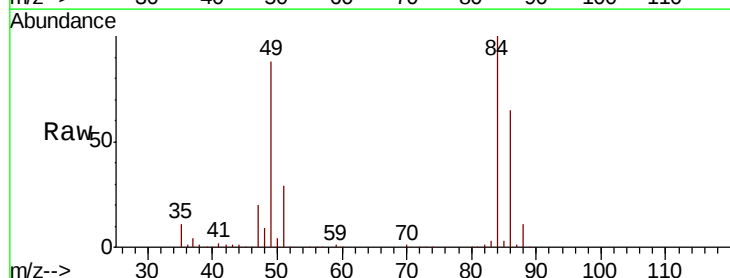
Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-01DL

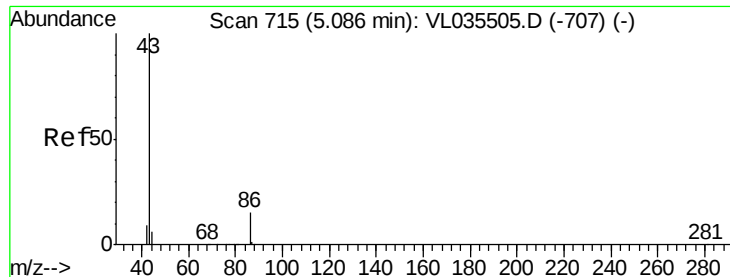
Tot Ion:	84	Resp:	683603
Ion	Ratio	Lower	Upper
84	100		
49	86.9	65.4	98.0
51	27.0	21.5	32.3
86	66.2	52.9	79.3



#21
Allyl Chloride
Concen: 0.205 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.07 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

Tgt Ion:	41	Resp:	13247
Ion	Ratio	Lower	Upper
41	100		
76	0.0	46.2	69.2#
39	8.5	67.8	101.6#





#23

Vinyl Acetate

Concen: 0.081 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.01 min

Lab File: VL035631.D

Acq: 16 Sep 2020 16:26

Instrument :

MSVOA_L

ClientSampleID :

TRC-IA-01DL

Tot Ion: 43 Resp: 14380

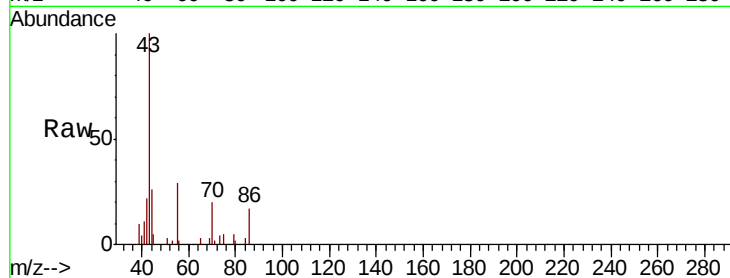
Ion Ratio Lower Upper

43 100

86 17.7 10.6 16.0#

42 19.2 7.5 11.3#

44 5.2 4.4 6.6

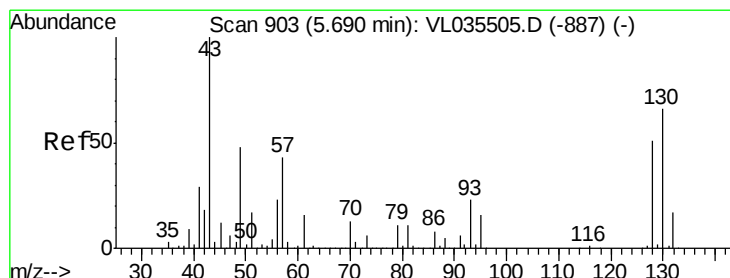
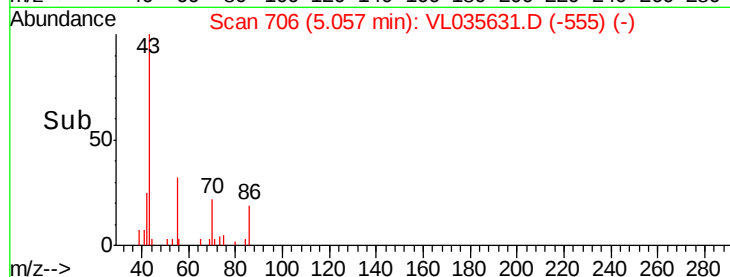
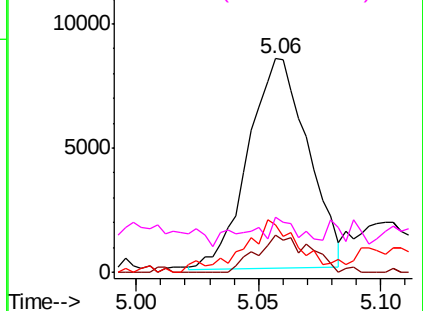


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.471 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL035631.D

Acq: 16 Sep 2020 16:26

Tgt Ion: 43 Resp: 114588

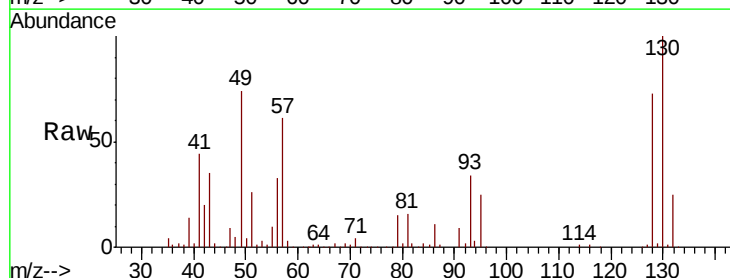
Ion Ratio Lower Upper

43 100

45 1.0 8.4 12.6#

61 0.8 10.6 16.0#

70 2.8 9.4 14.2#

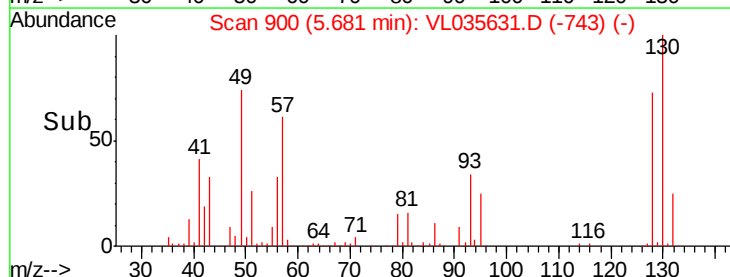
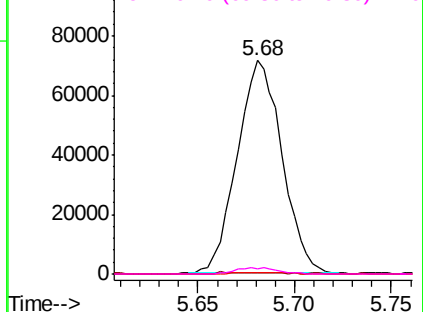


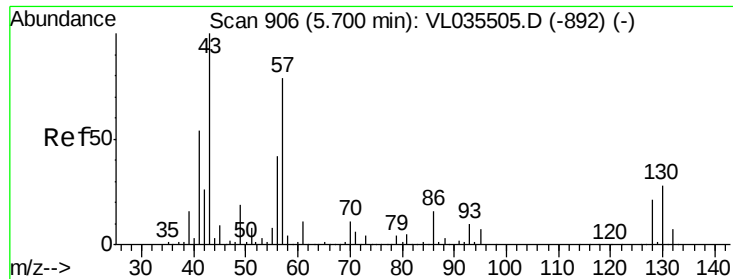
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

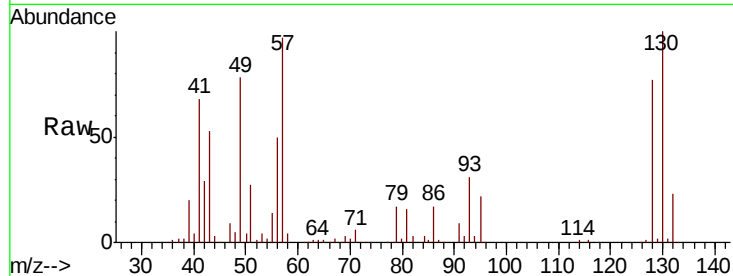




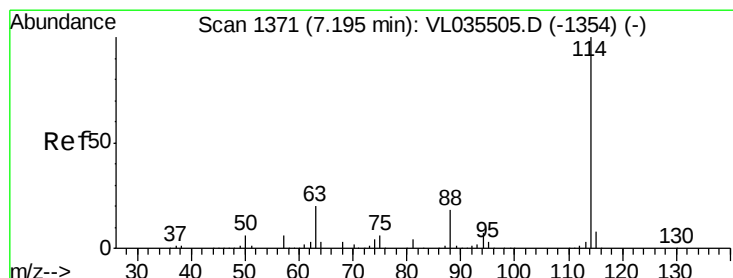
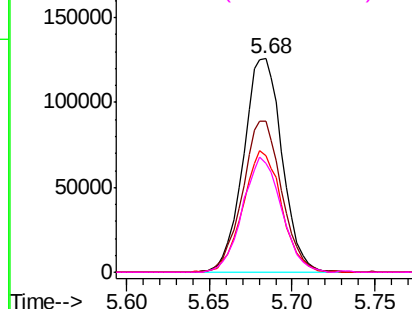
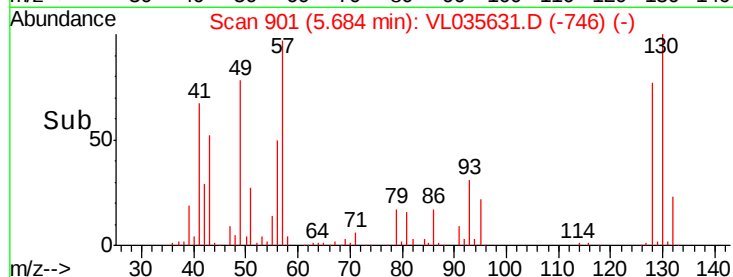
#26
Hexane
Concen: 1.483 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-01DL

Tot Ion: 57 Resp: 204565
Ion Ratio Lower Upper
57 100
41 71.8 55.9 83.9
43 57.0 141.8 212.8#
56 54.4 41.8 62.8

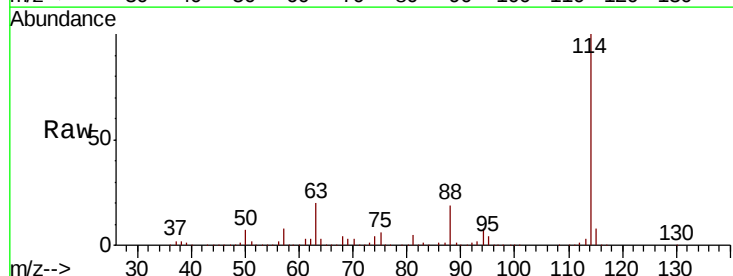


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

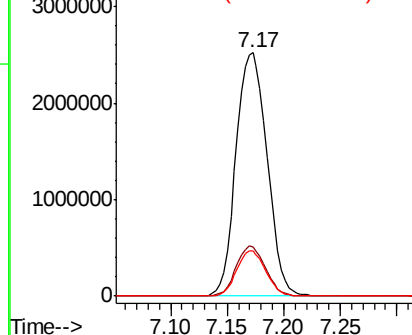
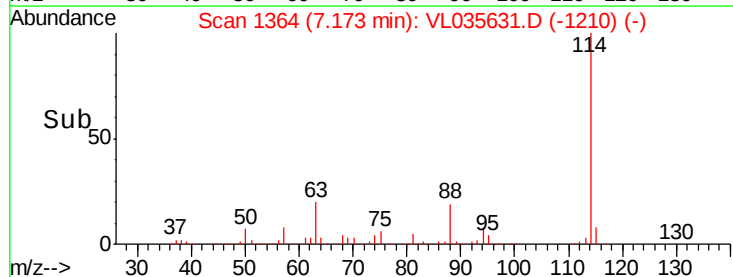


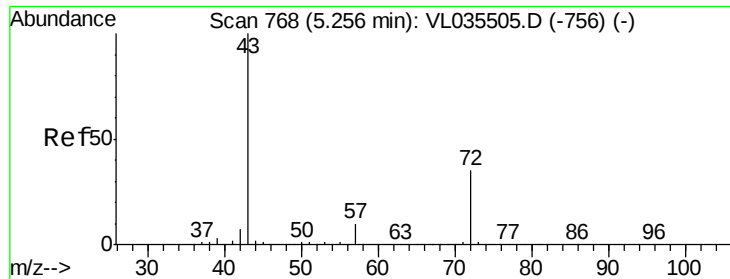
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

Tgt Ion: 114 Resp: 4851696
Ion Ratio Lower Upper
114 100
63 19.4 14.7 22.1
88 17.5 13.4 20.2



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





#34

2-Butanone

Concen: 0.121 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.00 min

Lab File: VL035631.D

Acq: 16 Sep 2020 16:26

Instrument :

MSVOA_L

ClientSampleID :

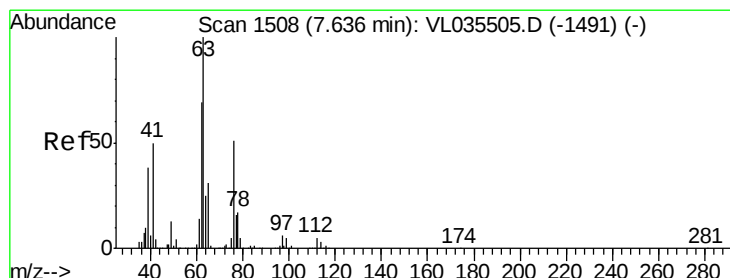
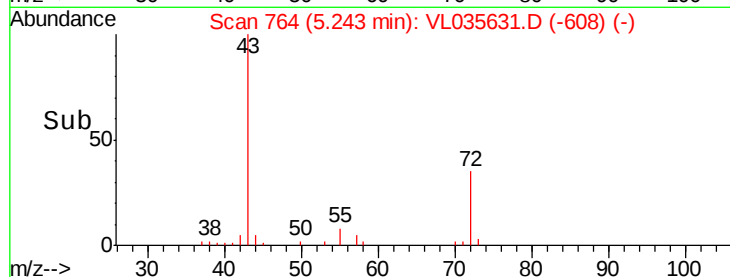
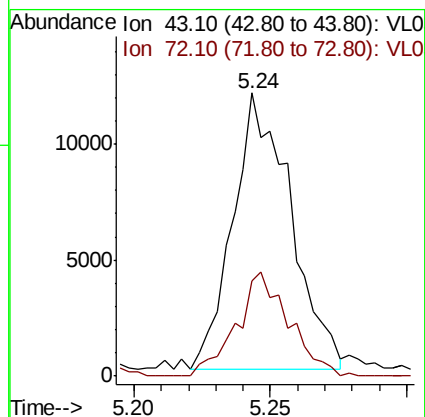
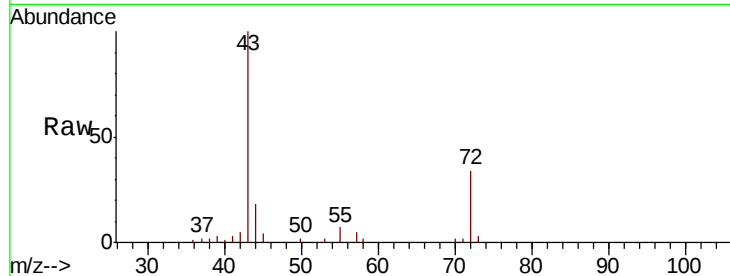
TRC-IA-01DL

Tot Ion: 43 Resp: 17380

Ion Ratio Lower Upper

43 100

72 34.5 27.7 41.5



#39

1,2-Dichloropropane

Concen: 8.847 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.44 min

Lab File: VL035631.D

Acq: 16 Sep 2020 16:26

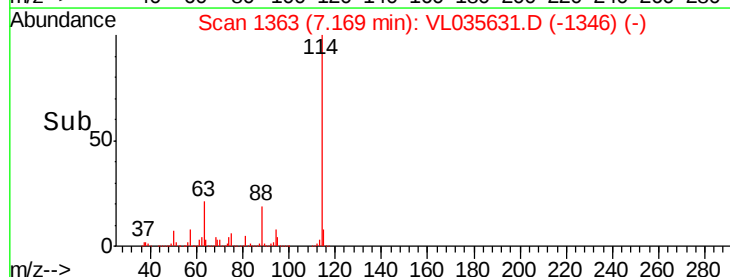
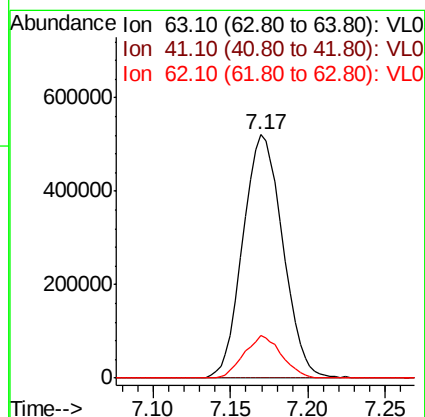
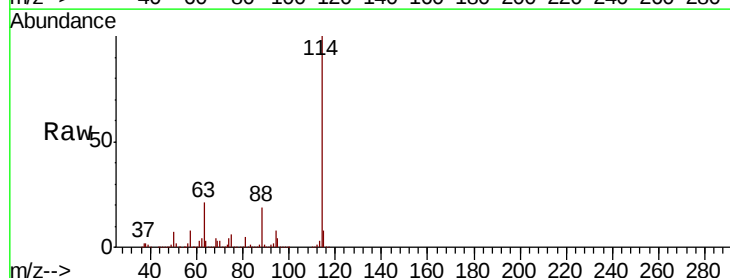
Tgt Ion: 63 Resp: 938599

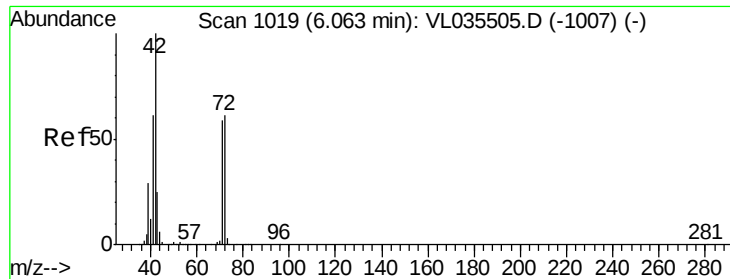
Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

62 17.4 55.4 83.0#

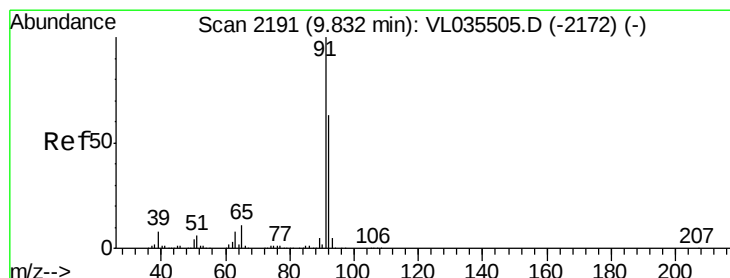
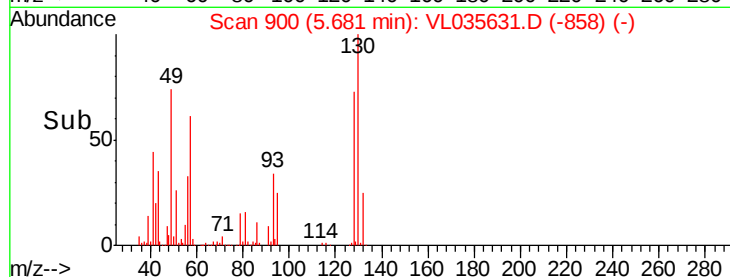
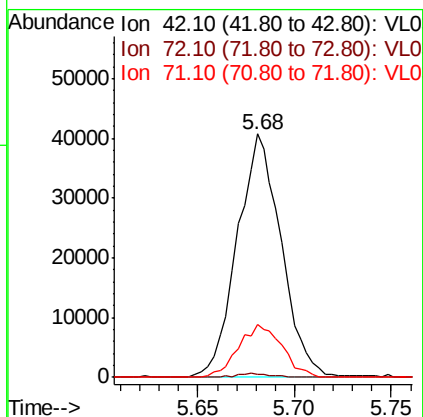
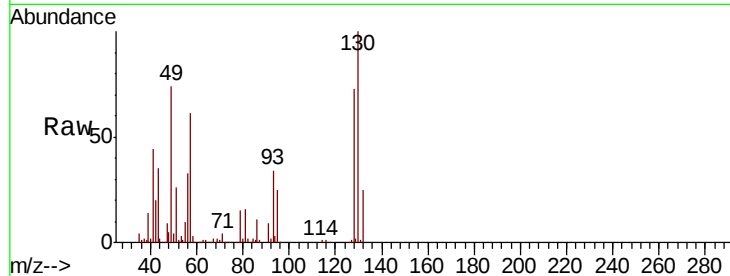




#41
Tetrahydrofuran
Concen: 0.842 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.36 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

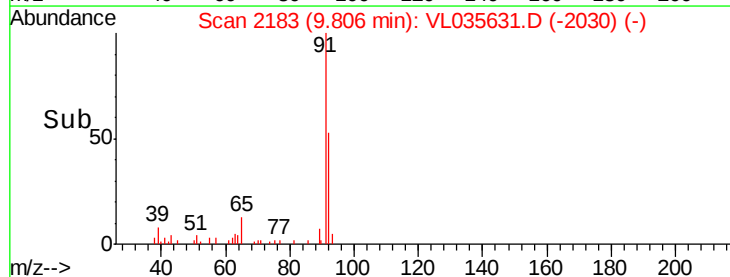
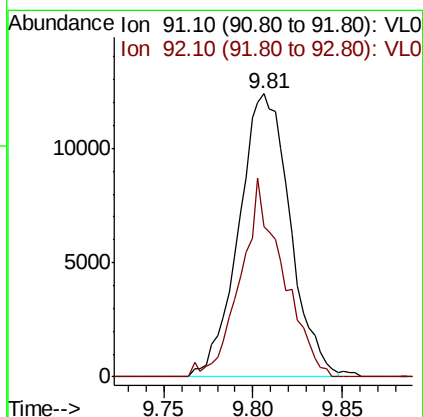
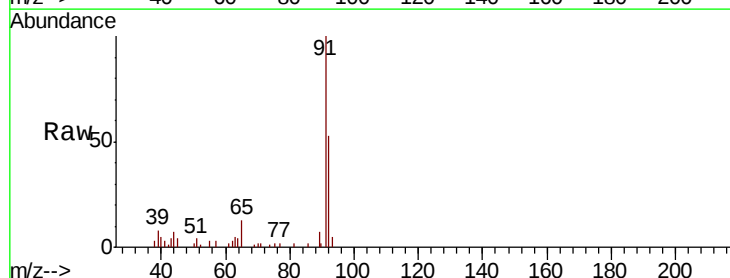
Instrument :
MSVOA_L
ClientSampleID :
TRC-IA-01DL

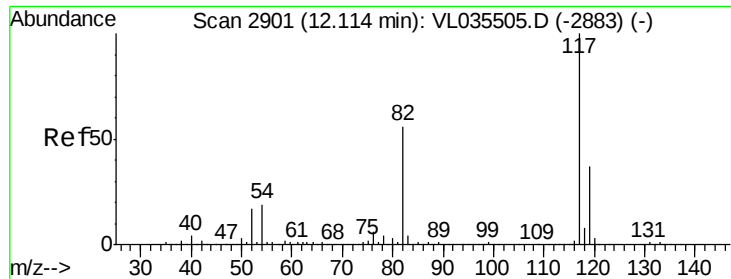
Tot Ion: 42 Resp: 64289
Ion Ratio Lower Upper
42 100
72 1.1 48.6 73.0#
71 21.4 46.1 69.1#



#53
Toluene
Concen: 0.063 ppbv
RT: 9.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

Tgt Ion: 91 Resp: 24847
Ion Ratio Lower Upper
91 100
92 57.9 49.8 74.8

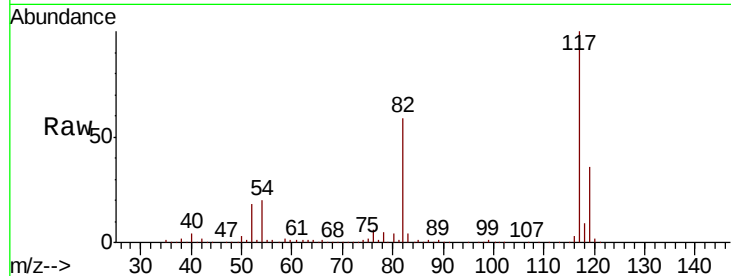




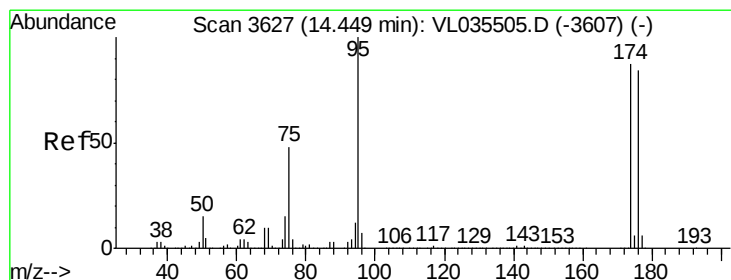
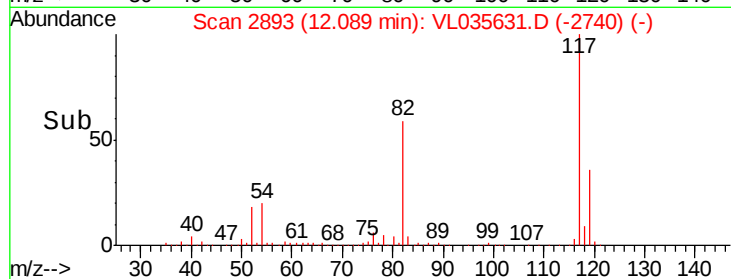
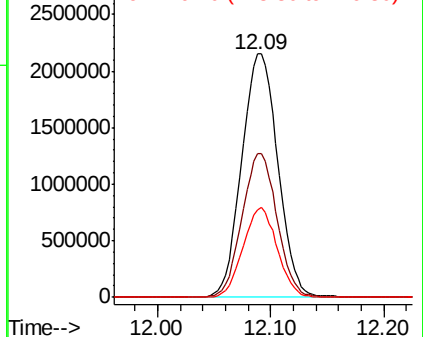
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-01DL

Tot Ion:117 Resp: 4788671
Ion Ratio Lower Upper
117 100
82 57.5 41.6 62.4
119 35.0 29.3 43.9

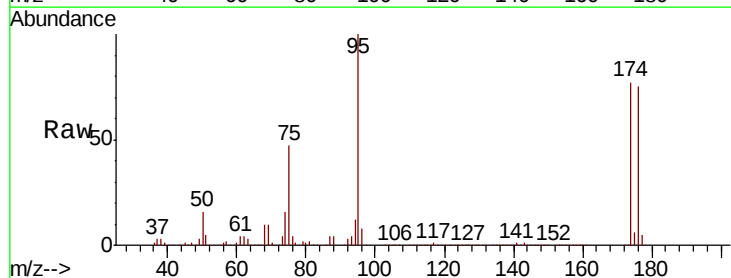


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.395 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL035631.D
Acq: 16 Sep 2020 16:26

Tgt Ion: 95 Resp: 3535129
Ion Ratio Lower Upper
95 100
174 79.4 69.6 104.4
175 5.8 5.1 7.7



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

