

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033489.D
 Acq On : 28 Mar 2019 4:54
 Operator : SY/AP
 Sample : K1991-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:32:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	749259	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1910926	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1913837	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1475027	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	33561	0.307	ppbv 100
3) Chlorodifluoromethane	2.99	51	93815	1.088	ppbv # 67
4) Chloromethane	3.17	50	12384	0.271	ppbv 98
9) Propene	3.04	41	41839	1.155	ppbv # 68
10) Heptane	8.24	43	592209	6.116	ppbv 99
11) Trichlorofluoromethane	4.00	101	55124	0.409	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.54	101	6648	0.073	ppbv 90
13) Ethanol	3.64	45	155097	16.545	ppbv 67
15) Acetone	3.89	43	2176575	24.160	ppbv 98
16) 1,3-Butadiene	3.34	39	42503	1.189	ppbv # 11
17) tert-Butyl alcohol	4.36	59	45802	2.765	ppbv # 73
19) Isopropyl Alcohol	4.02	45	85918	1.508	ppbv # 95
20) Methylene Chloride	4.40	84	71763	1.877	ppbv 95
21) Allyl Chloride	4.36	41	4426	0.078	ppbv # 18
23) Vinyl Acetate	5.13	43	72667	0.567	ppbv # 1
25) Ethyl Acetate	5.77	43	437607	2.618	ppbv # 84
26) Hexane	5.78	57	517366	6.961	ppbv # 46
27) Carbon Disulfide	4.62	76	27192	0.308	ppbv # 70
30) Cyclohexane	7.24	84	353727	6.016	ppbv 98
31) cis-1,2-Dichloroethene	5.75	61	11946	0.162	ppbv # 44
34) 2-Butanone	5.32	43	511714	4.457	ppbv 100
36) Benzene	6.99	78	26269	0.164	ppbv 95
37) 1,2-Dichloroethane	6.40	62	4981	0.046	ppbv # 89
38) Trichloroethene	7.96	130	22642	0.375	ppbv 95
39) 1,2-Dichloropropane	7.28	63	477917	7.609	ppbv # 24
40) 1,4-Dioxane	7.98	88	2103	0.094	ppbv # 1
41) Tetrahydrofuran	6.15	42	24667	0.391	ppbv # 89
42) Bromodichloromethane	7.91	83	13038	0.089	ppbv # 25
43) Methyl Methacrylate	8.22	69	2017	0.031	ppbv # 1
44) 2,2,4-Trimethylpentane	7.98	57	19790	0.071	ppbv # 43
50) 4-Methyl-2-Pentanone	8.87	43	13189	0.078	ppbv # 58
51) 2-Hexanone	10.24	43	88364	0.705	ppbv # 35
53) Toluene	9.94	91	1177012	6.317	ppbv 99
58) Ethyl Benzene	12.86	91	52589	0.206	ppbv 96
59) m/p-Xylene	13.15	91	21734	0.095	ppbv # 100
60) o-Xylene	13.84	91	52202	0.236	ppbv 99
61) Styrene	13.68	104	15994	0.106	ppbv # 51
73) 1,3,5-Trimethylbenzene	16.15	105	13997	0.059	ppbv 90
74) 1,2,4-Trimethylbenzene	16.92	105	35513	0.140	ppbv # 71
75) 1,3-Dichlorobenzene	17.31	146	70253	0.447	ppbv 97
76) 1,4-Dichlorobenzene	17.31	146	70253	0.458	ppbv 93

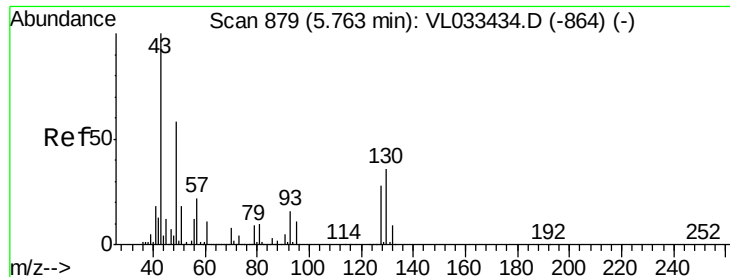
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033489.D
Acq On : 28 Mar 2019 4:54
Operator : SY/AP
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Instrument :
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Quant Time: Mar 28 07:32:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Naphthalene,2-methyl-	25.11	142	3623	0.050	ppbv	# 75

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

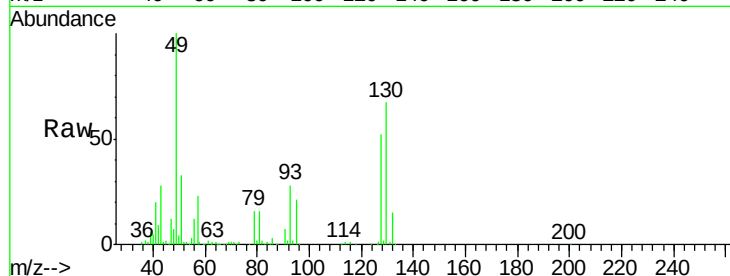
Tot Ion: 49 Resp: 749259

Ion Ratio Lower Upper

49 100

128 49.8 24.0 72.0

130 64.2 31.2 93.6



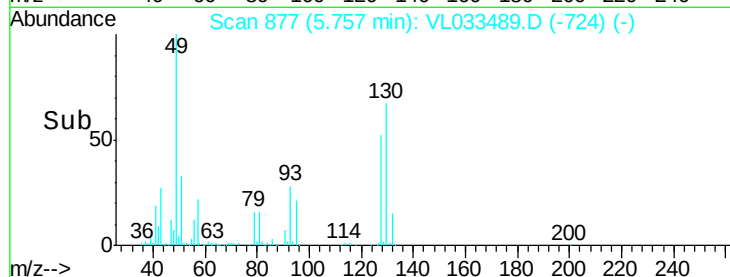
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

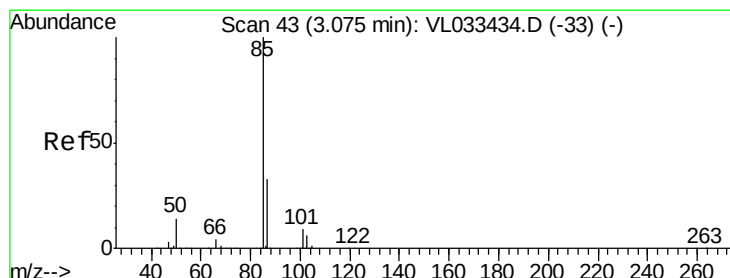
Ion 130.00 (129.70 to 130.70): VL0

5.76

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.307 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033489.D

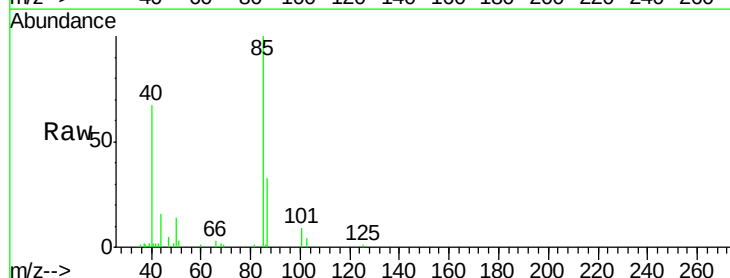
Acq: 28 Mar 2019 4:54

Tgt Ion: 85 Resp: 33561

Ion Ratio Lower Upper

85 100

87 33.2 26.7 40.1

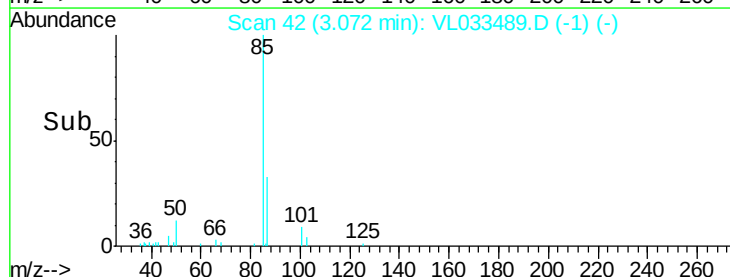


Abundance Ion 85.00 (84.70 to 85.70): VL0

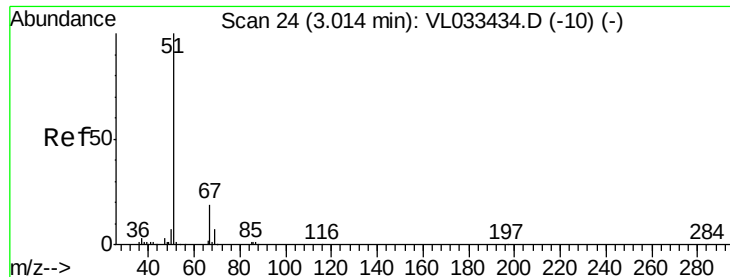
Ion 87.00 (86.70 to 87.70): VL0

3.07

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 1.088 ppbv

RT: 2.99 min Scan# 15

Delta R.T. -0.03 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

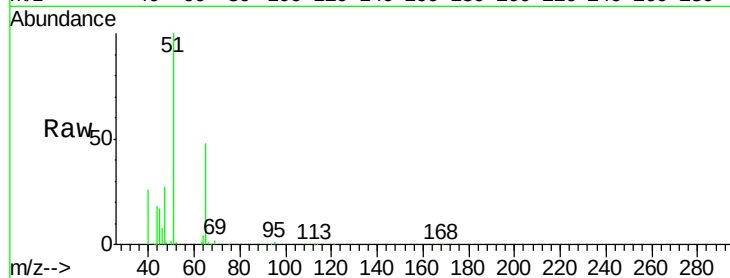
ClientSampleId :

Tot Ion: 51 Resp: 93815

Ion Ratio Lower Upper

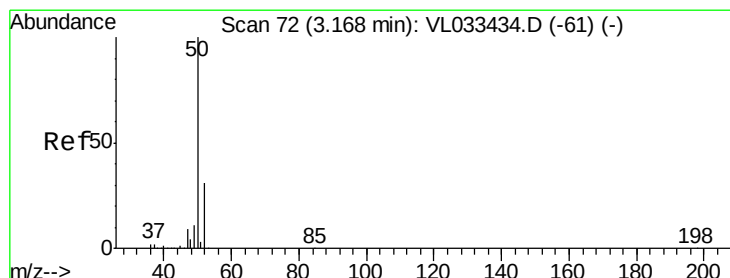
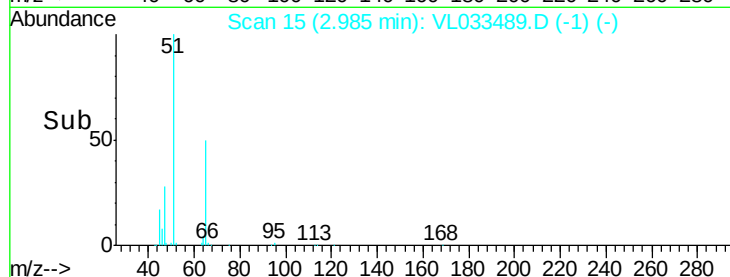
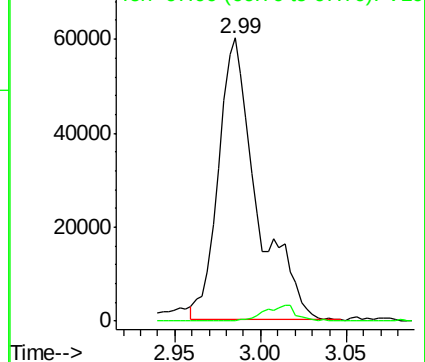
51 100

67 4.7 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.271 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033489.D

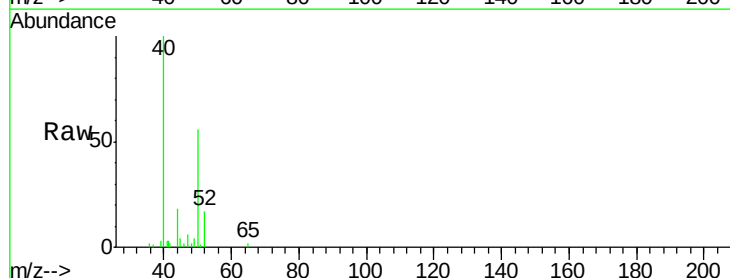
Acq: 28 Mar 2019 4:54

Tgt Ion: 50 Resp: 12384

Ion Ratio Lower Upper

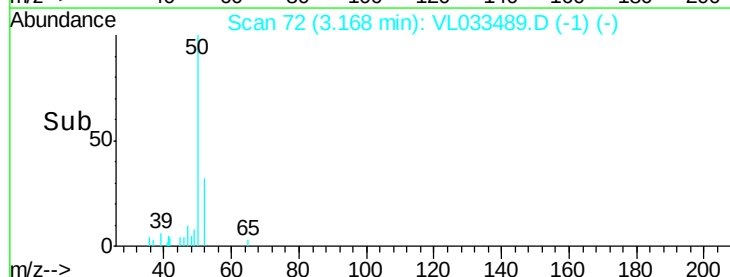
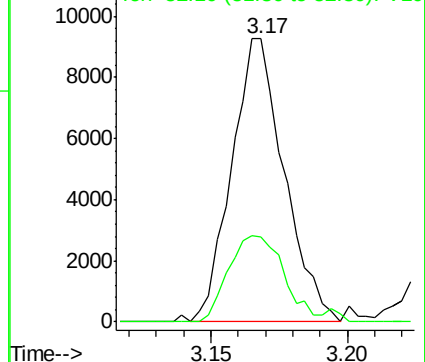
50 100

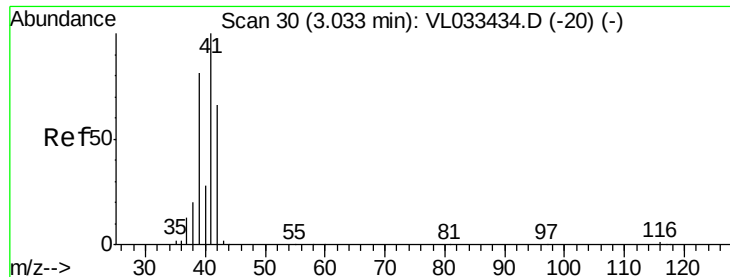
52 30.1 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.155 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

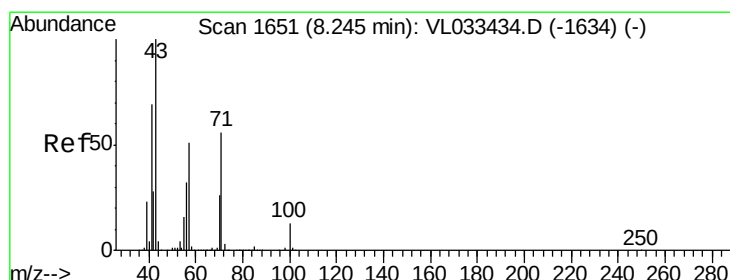
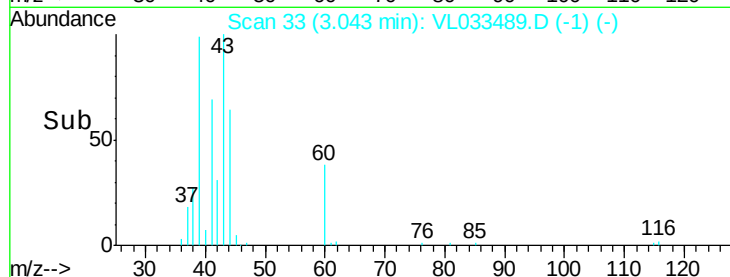
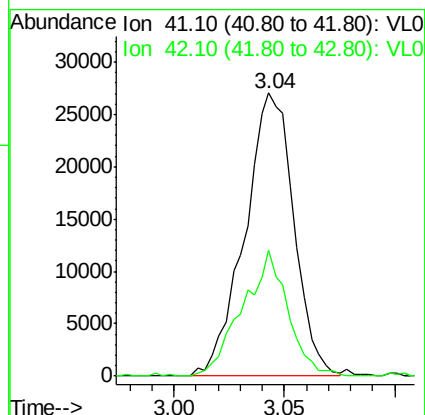
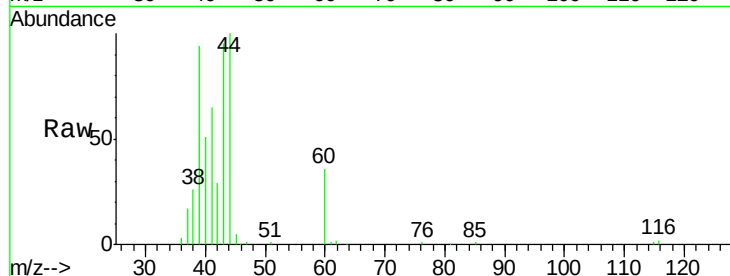
ClientSampleId :

Tot Ion: 41 Resp: 41839

Ion Ratio Lower Upper

41 100

42 41.4 53.9 80.9#



#10

Heptane

Concen: 6.116 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.01 min

Lab File: VL033489.D

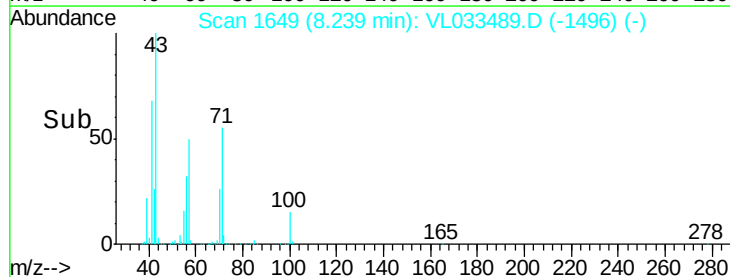
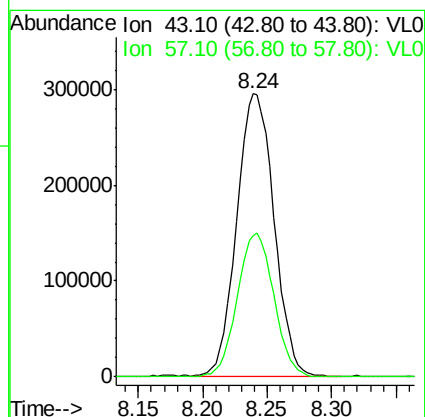
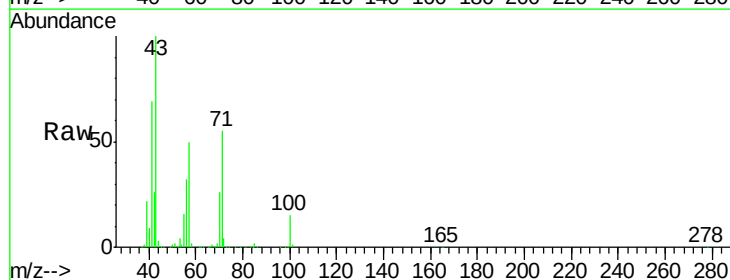
Acq: 28 Mar 2019 4:54

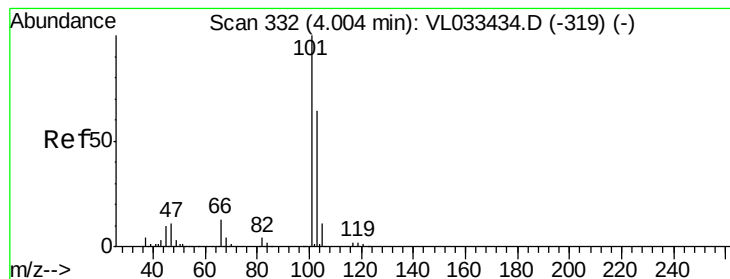
Tgt Ion: 43 Resp: 592209

Ion Ratio Lower Upper

43 100

57 50.0 40.6 60.8





#11

Trichlorofluoromethane

Concen: 0.409 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

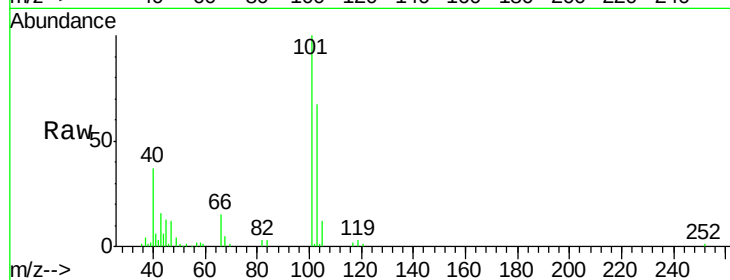
ClientSampleId :

Tot Ion:101 Resp: 55124

Ion Ratio Lower Upper

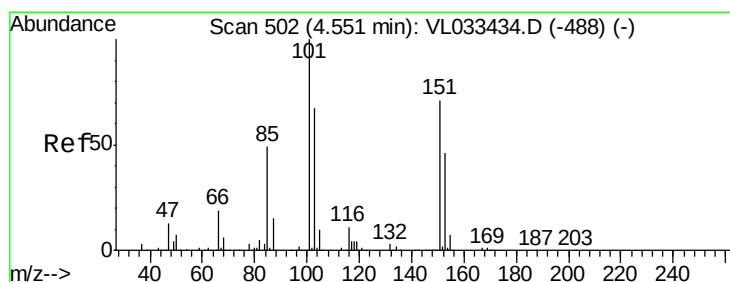
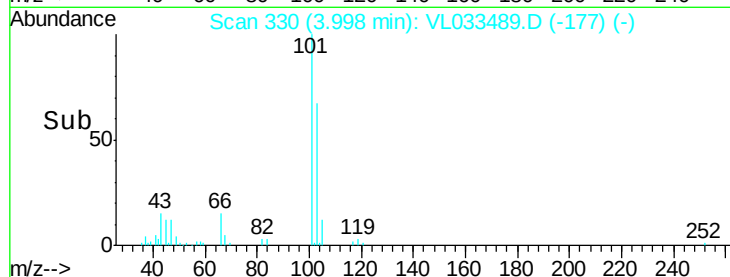
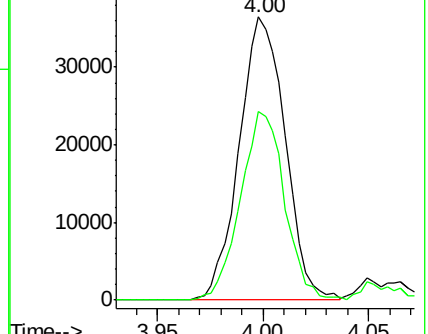
101 100

103 66.8 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.073 ppbv

RT: 4.54 min Scan# 500

Delta R.T. -0.01 min

Lab File: VL033489.D

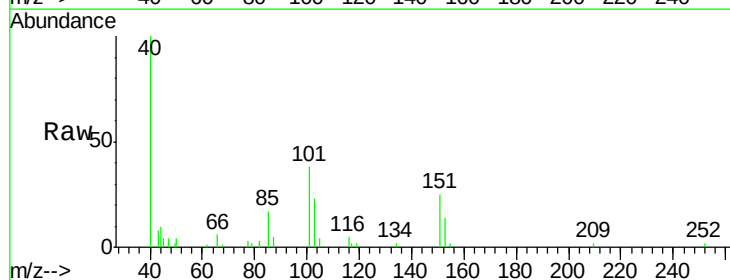
Acq: 28 Mar 2019 4:54

Tgt Ion:101 Resp: 6648

Ion Ratio Lower Upper

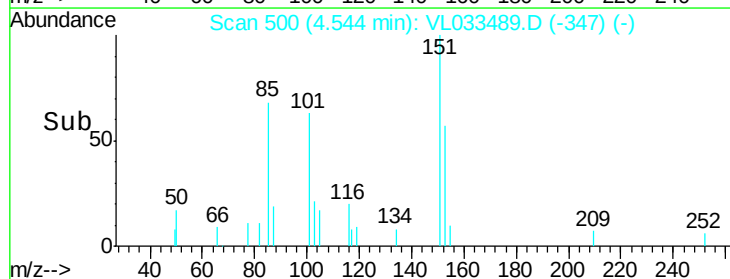
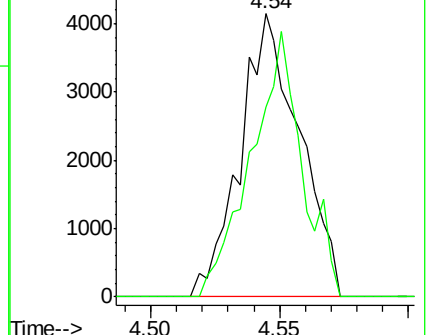
101 100

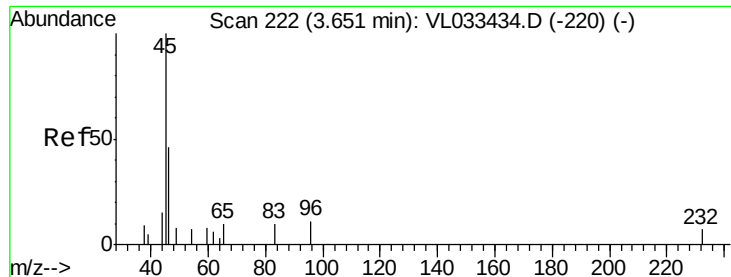
151 80.4 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 16.545 ppbv

RT: 3.64 min Scan# 219

Delta R.T. -0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

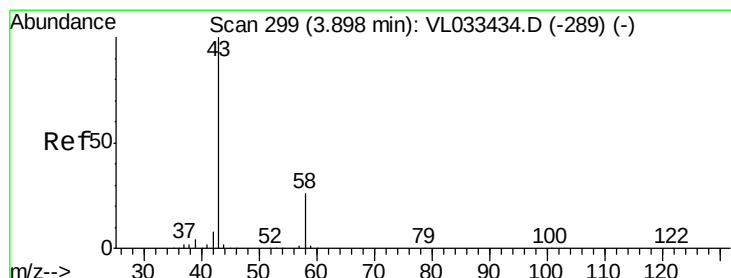
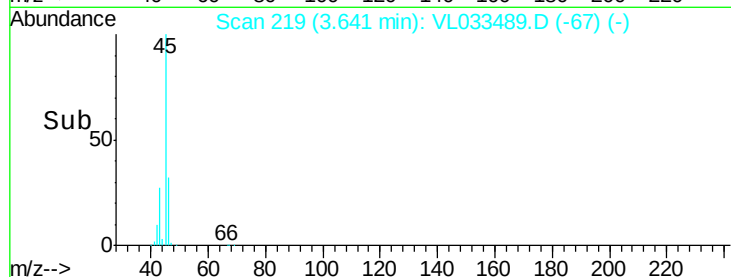
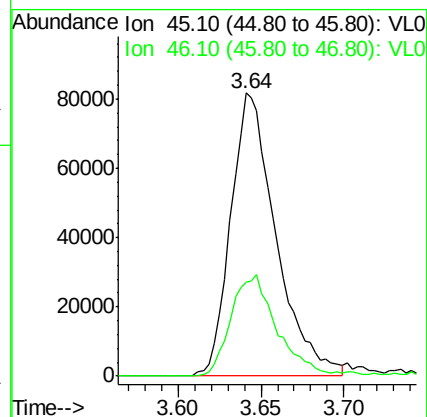
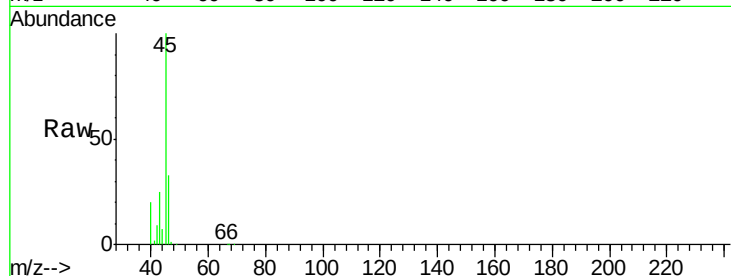
ClientSampleId :

Tot Ion: 45 Resp: 155097

Ion Ratio Lower Upper

45 100

46 37.7 25.4 101.8



#15

Acetone

Concen: 24.160 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.01 min

Lab File: VL033489.D

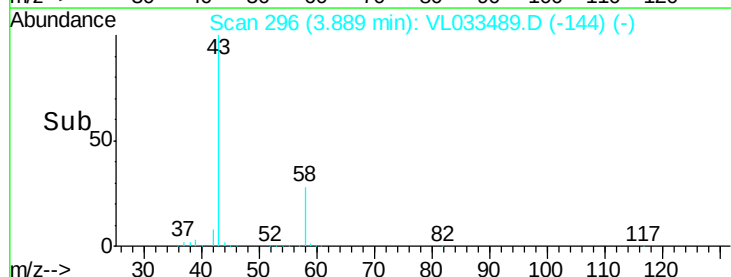
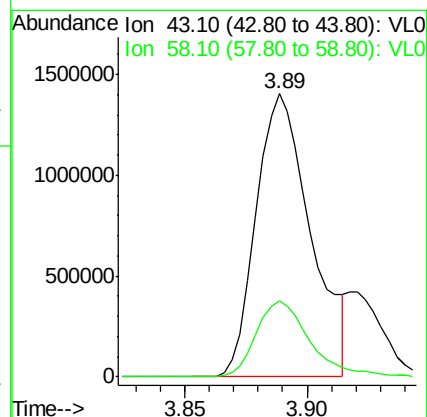
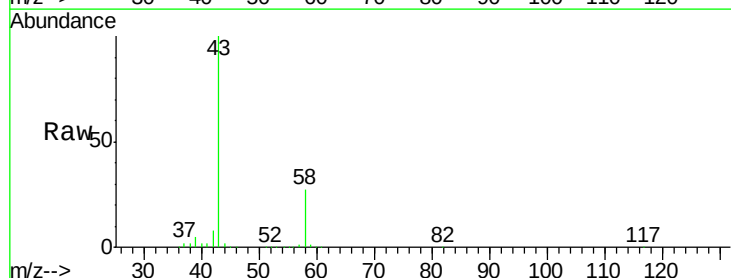
Acq: 28 Mar 2019 4:54

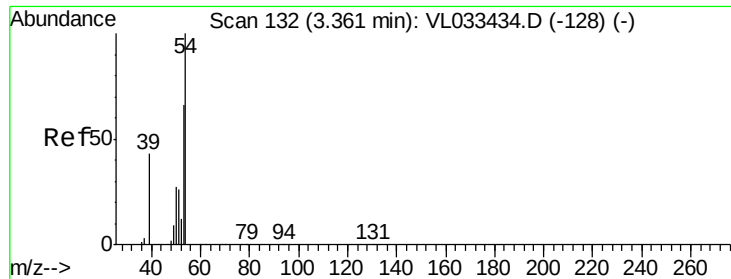
Tgt Ion: 43 Resp: 2176575

Ion Ratio Lower Upper

43 100

58 26.7 20.5 30.7

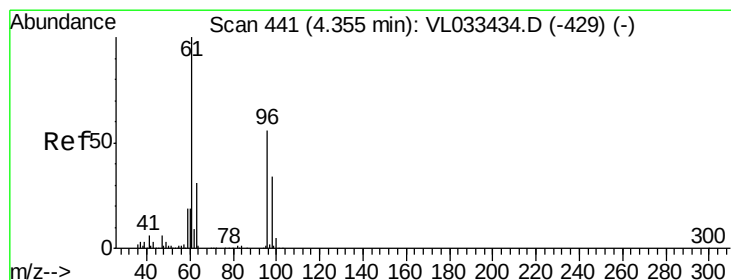
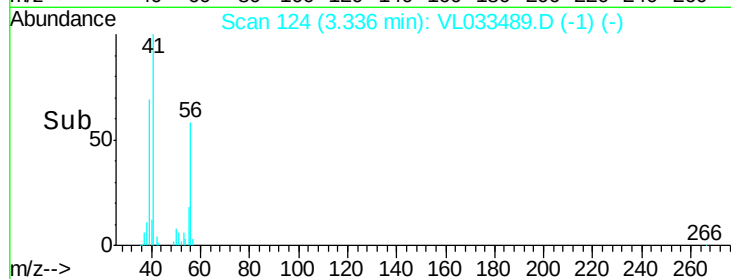
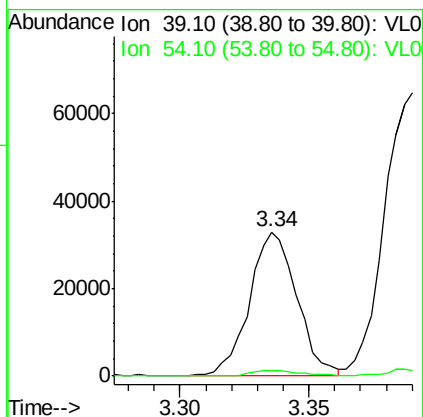
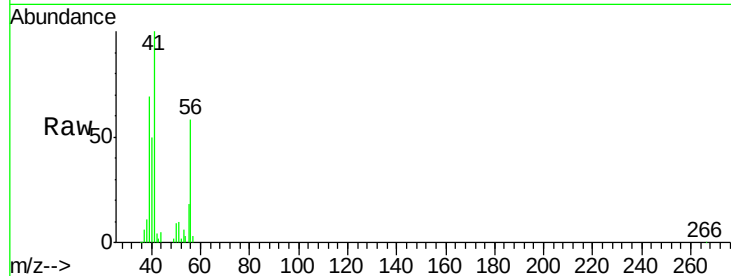




#16
 1,3-Butadiene
 Concen: 1.189 ppbv
 RT: 3.34 min Scan# 124
 Delta R.T. -0.03 min
 Lab File: VL033489.D
 Acq: 28 Mar 2019 4:54

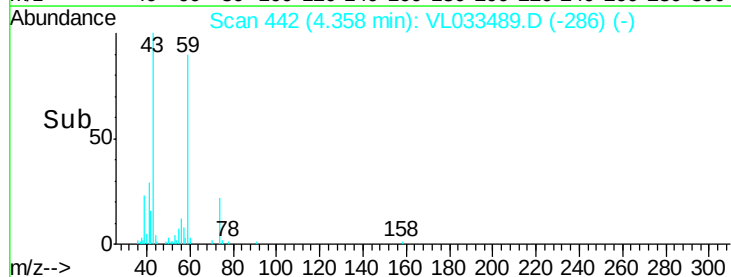
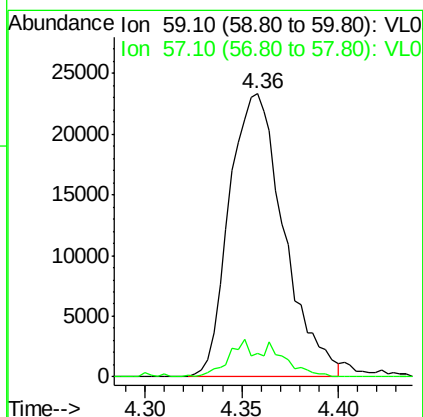
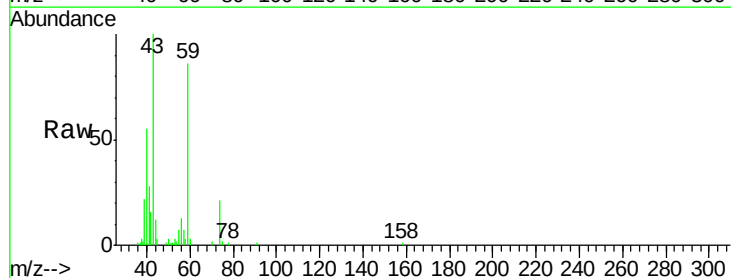
Instrument :
 MSVOA_L
 ClientSampleId :

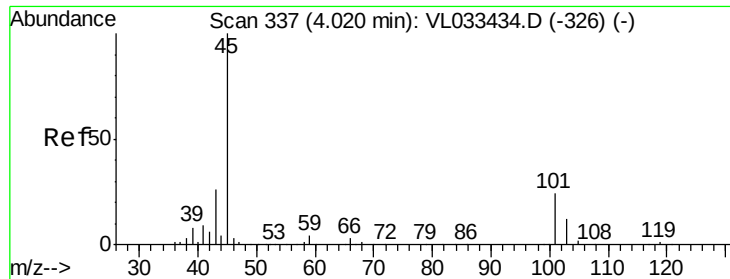
Tot Ion: 39 Resp: 42503
 Ion Ratio Lower Upper
 39 100
 54 4.5 69.4 104.2#



#17
 tert-Butyl alcohol
 Concen: 2.765 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VL033489.D
 Acq: 28 Mar 2019 4:54

Tgt Ion: 59 Resp: 45802
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 1.508 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

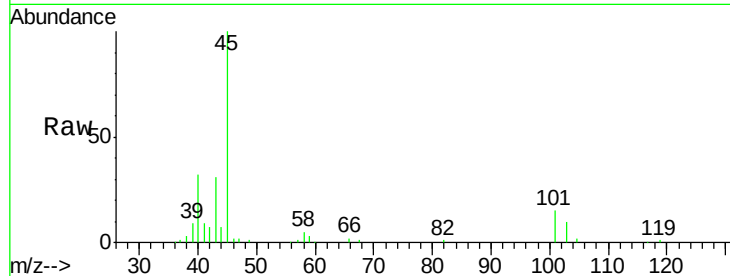
ClientSampled :

Tot Ion: 45 Resp: 85918

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



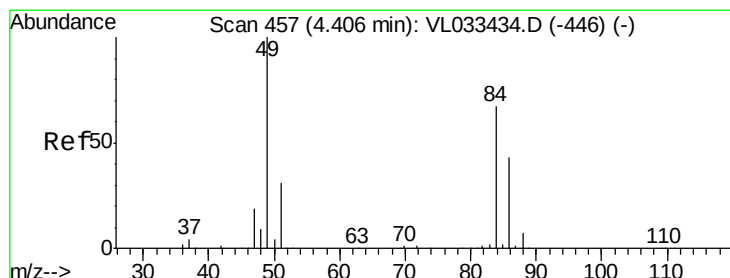
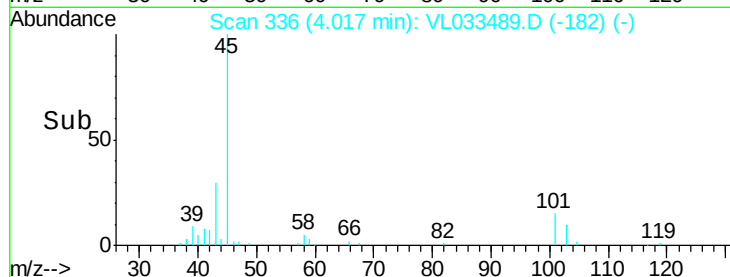
Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

4.05

Time-->



#20

Methylene Chloride

Concen: 1.877 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Tgt Ion: 84 Resp: 71763

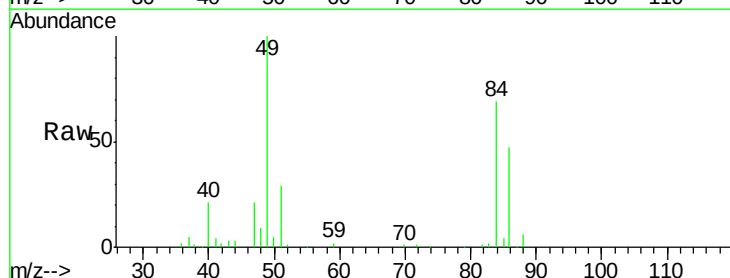
Ion Ratio Lower Upper

84 100

49 143.3 120.0 180.0

51 41.1 36.7 55.1

86 67.6 51.9 77.9



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

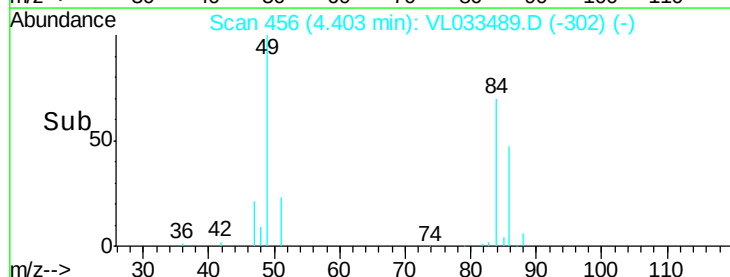
Ion 51.10 (50.80 to 51.80): VL0

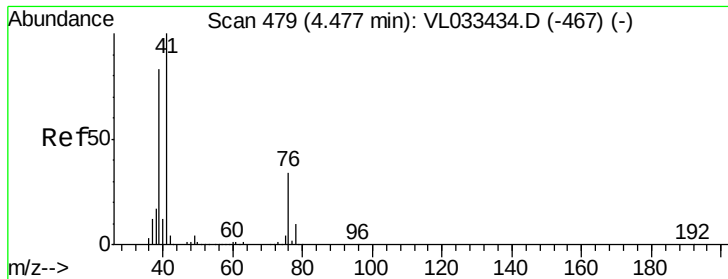
Ion 86.00 (85.70 to 86.70): VL0

4.40

4.45

Time-->





#21

Allvl Chloride

Concen: 0.078 ppbv

RT: 4.36 min Scan# 444

Delta R.T. -0.11 min

Lab File: VL033489.D

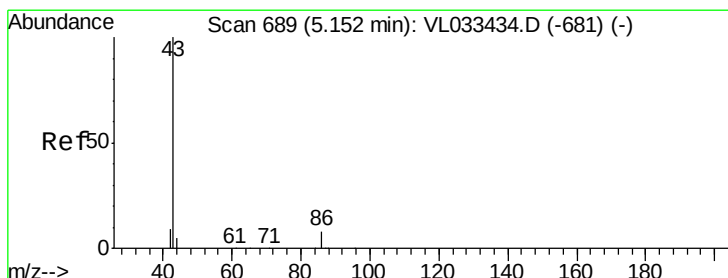
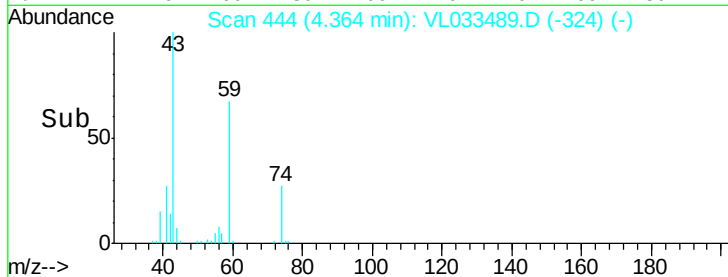
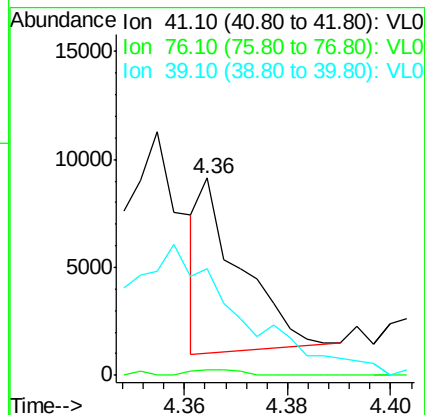
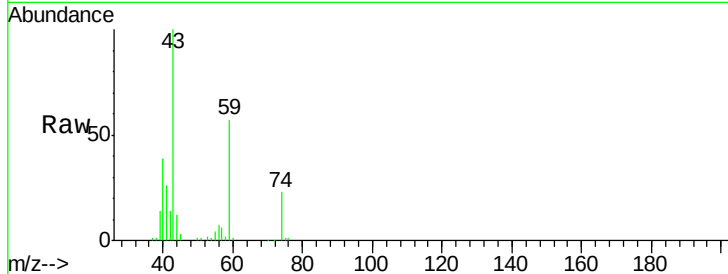
Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	41	Resp:	4426
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.4	38.2#
39	0.0	65.3	97.9#



#23

Vinyl Acetate

Concen: 0.567 ppbv

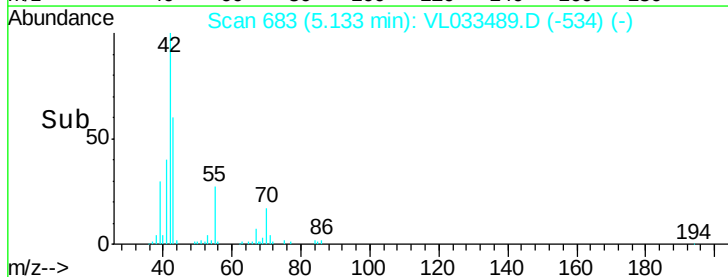
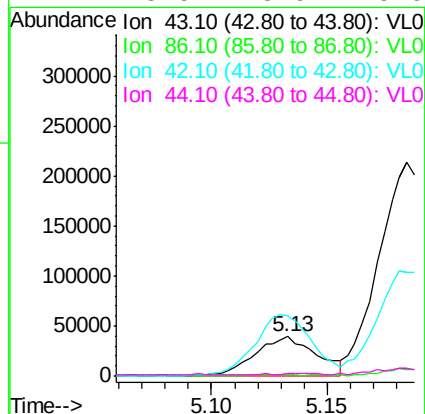
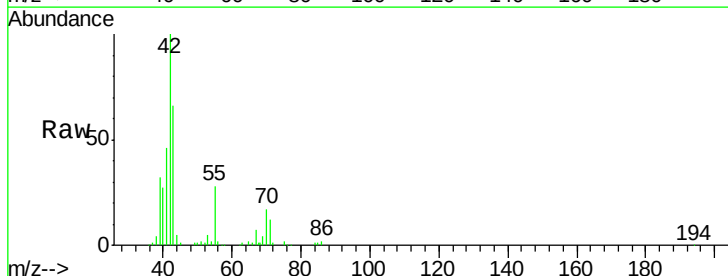
RT: 5.13 min Scan# 683

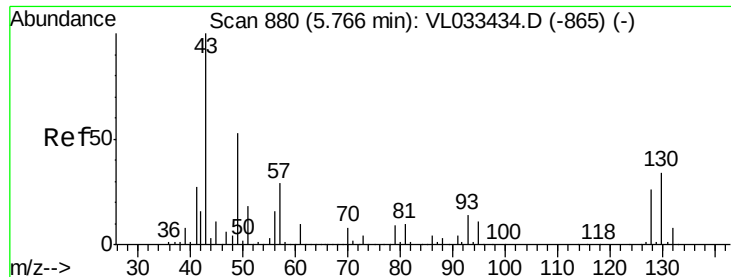
Delta R.T. -0.02 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Tgt Ion:	43	Resp:	72667
Ion	Ratio	Lower	Upper
43	100		
86	3.2	5.6	8.4#
42	149.0	8.0	12.0#
44	3.5	3.9	5.9#





#25

Ethyl Acetate

Concen: 2.618 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 437607

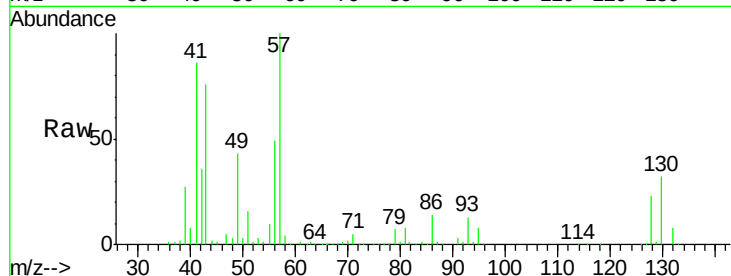
Ion Ratio Lower Upper

43 100

45 3.3 7.8 11.6#

61 2.8 7.3 10.9#

70 3.0 5.6 8.4#

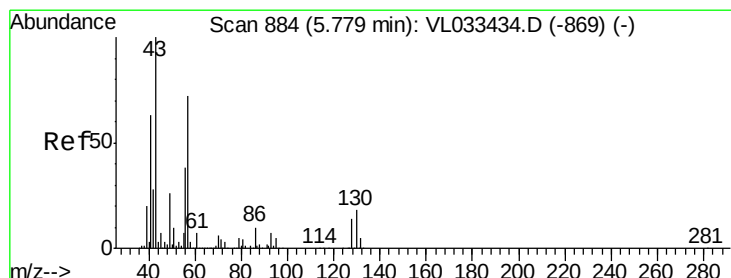
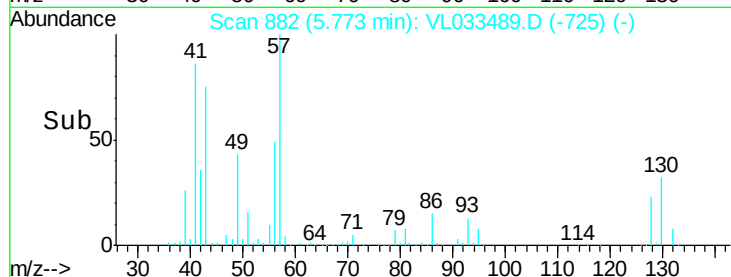
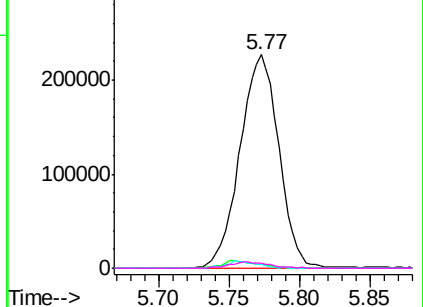


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 6.961 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Tgt Ion: 57 Resp: 517366

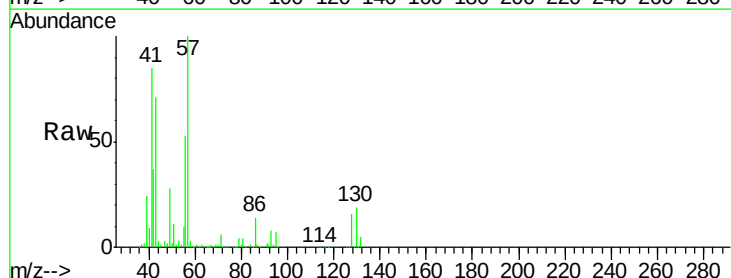
Ion Ratio Lower Upper

57 100

41 86.6 70.7 106.1

43 85.2 182.6 274.0#

56 52.4 42.0 63.0

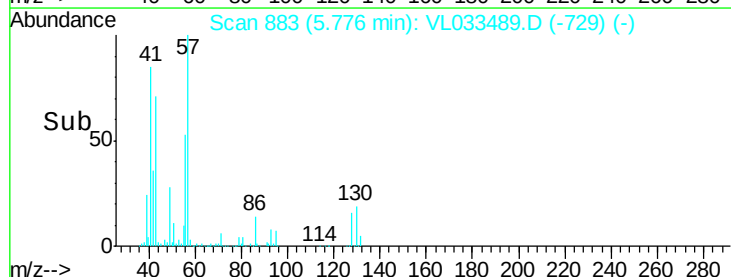
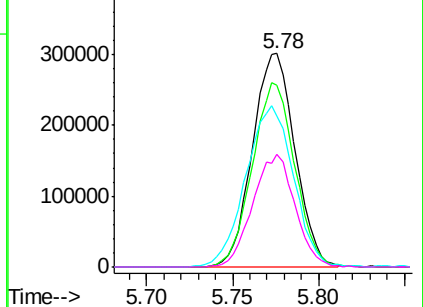


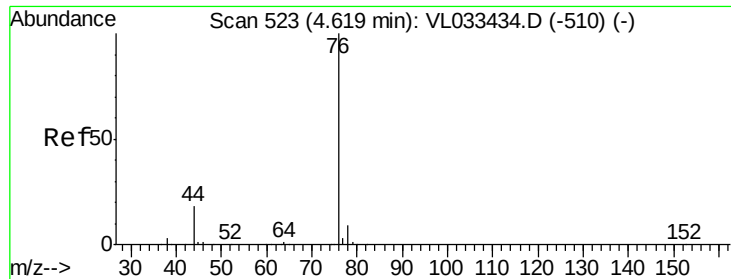
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.308 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

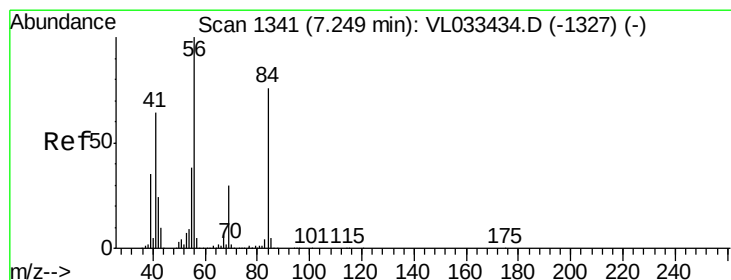
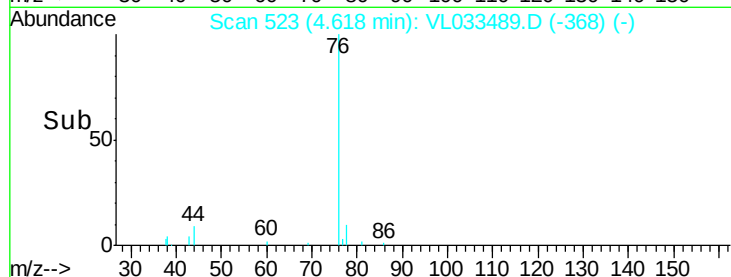
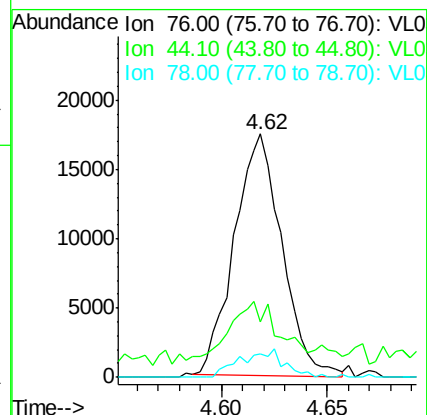
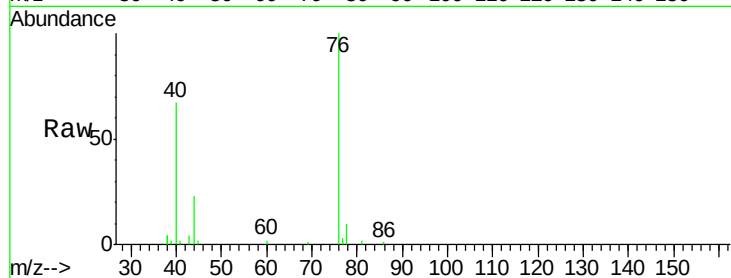
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 76 Resp: 27192

Ion	Ratio	Lower	Upper
76	100		
44	38.1	14.8	22.2#
78	10.8	7.6	11.4



#30

Cyclohexane

Concen: 6.016 ppbv

RT: 7.24 min Scan# 1339

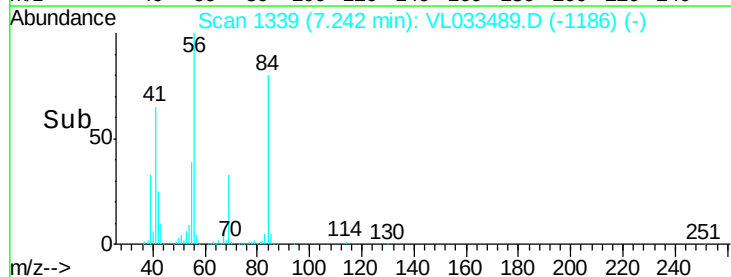
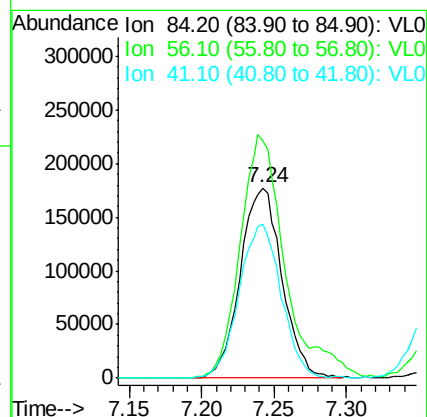
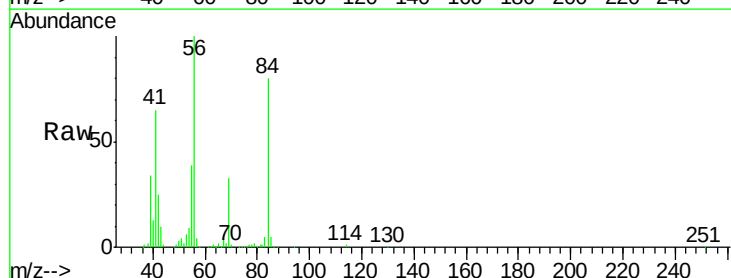
Delta R.T. -0.01 min

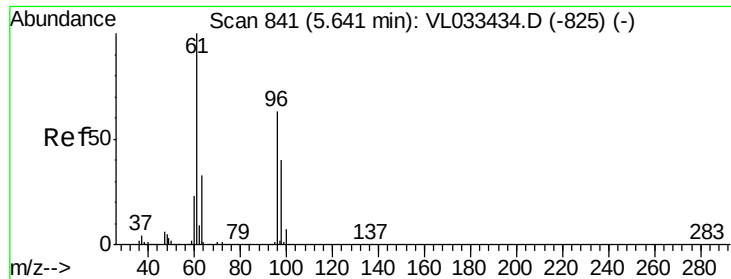
Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Tgt Ion: 84 Resp: 353727

Ion	Ratio	Lower	Upper
84	100		
56	138.9	109.7	164.5
41	81.8	68.2	102.2



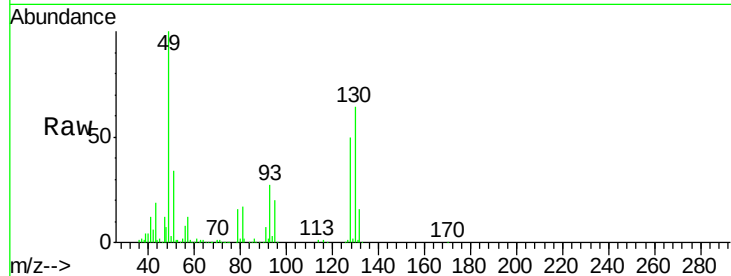


#31

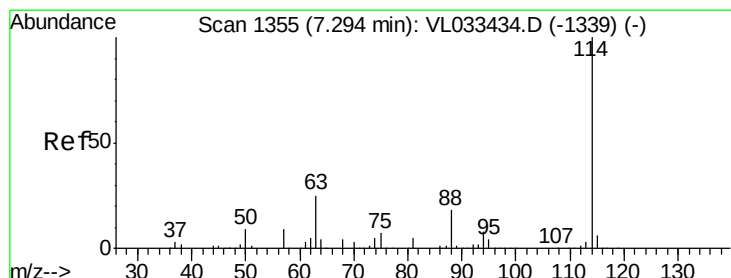
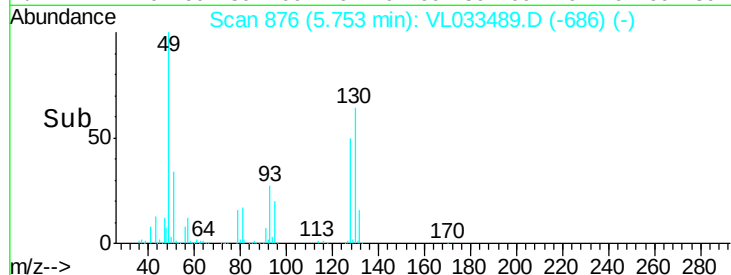
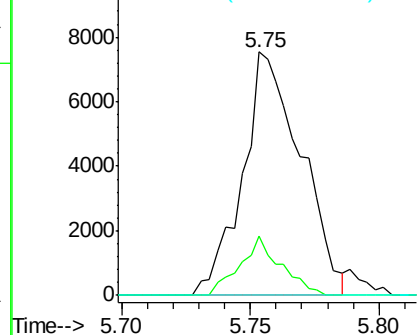
cis-1,2-Dichloroethene
Concen: 0.162 ppbv
RT: 5.75 min Scan# 876
Delta R.T. 0.11 min
Lab File: VL033489.D
Acq: 28 Mar 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 61 Resp: 11946
Ion Ratio Lower Upper
61 100
96 24.4 50.6 76.0#
98 0.0 32.2 48.2#



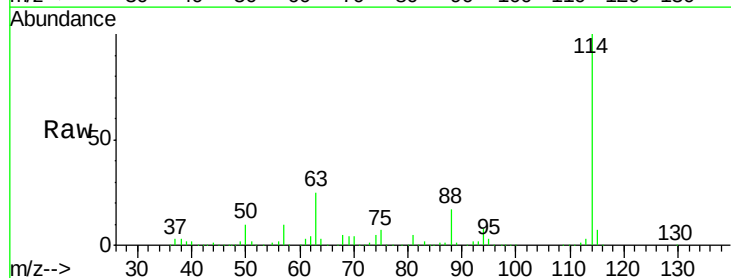
Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



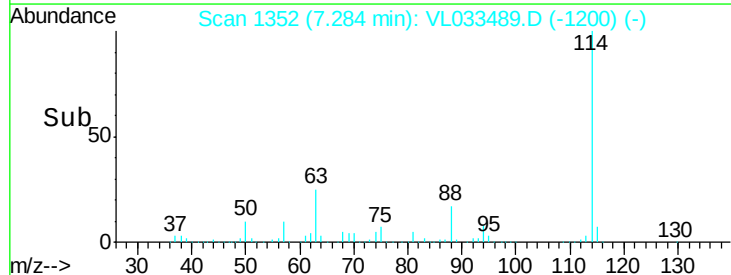
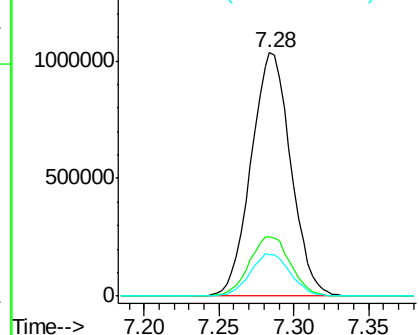
#33

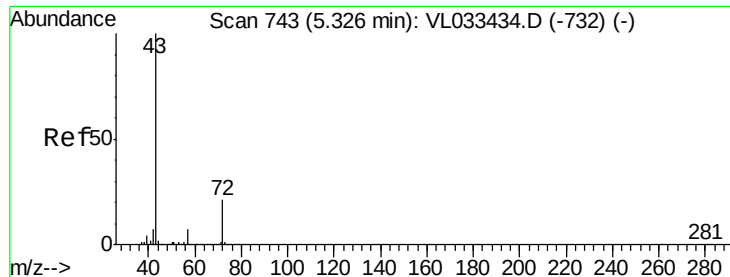
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033489.D
Acq: 28 Mar 2019 4:54

Tgt Ion: 114 Resp: 1910926
Ion Ratio Lower Upper
114 100
63 25.5 21.5 32.3
88 17.5 14.5 21.7



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

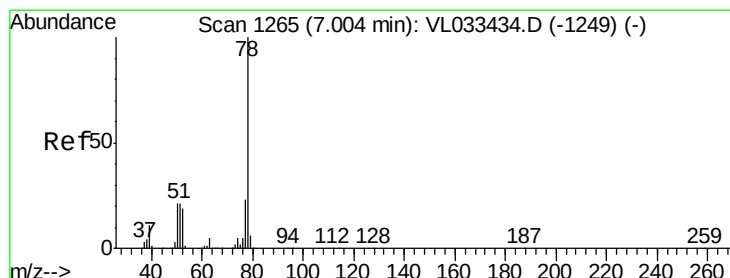
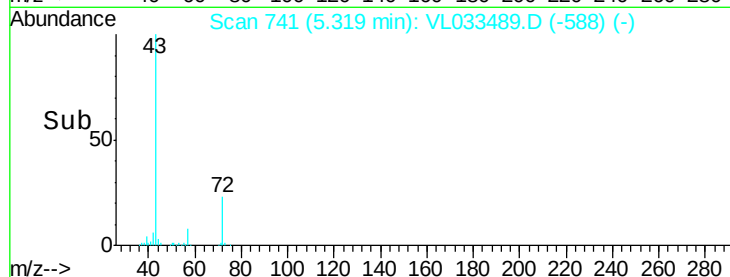
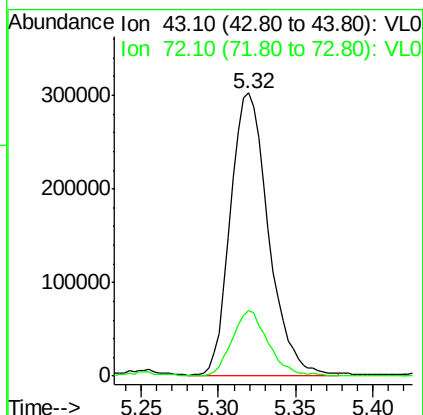
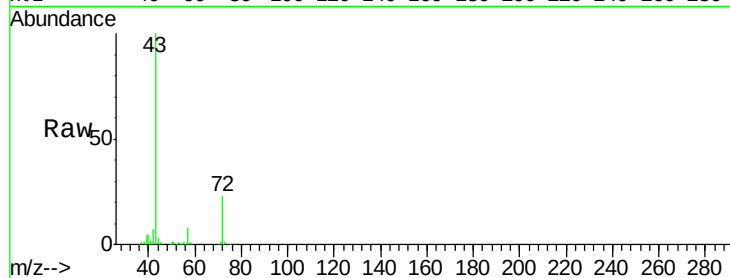




#34
2-Butanone
Concen: 4.457 ppbv
RT: 5.32 min Scan# 741
Delta R.T. -0.01 min
Lab File: VL033489.D
Acq: 28 Mar 2019 4:54

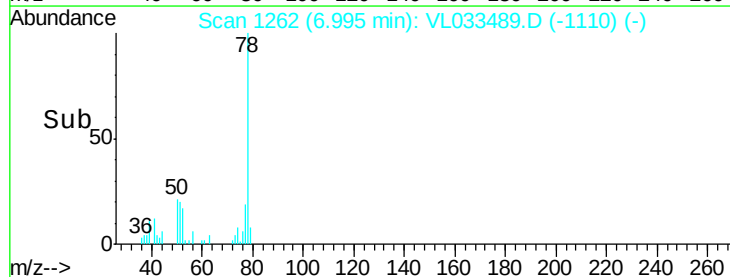
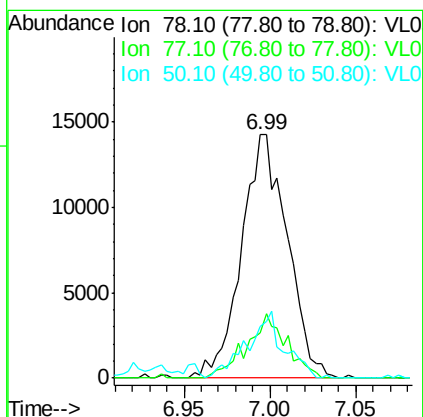
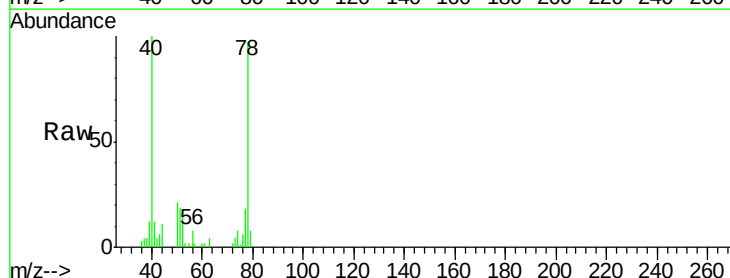
Instrument :
MSVOA_L
ClientSampleId :

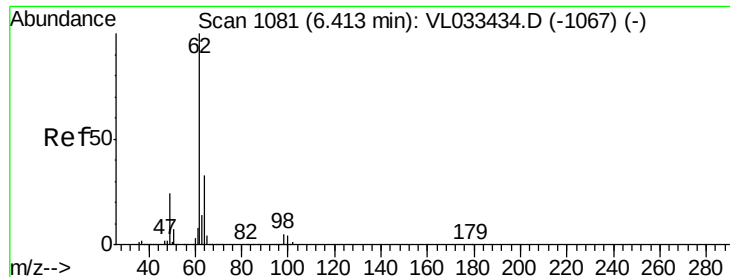
Tot Ion: 43 Resp: 511714
Ion Ratio Lower Upper
43 100
72 22.0 17.4 26.2



#36
Benzene
Concen: 0.164 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VL033489.D
Acq: 28 Mar 2019 4:54

Tgt Ion: 78 Resp: 26269
Ion Ratio Lower Upper
78 100
77 18.8 18.1 27.1
50 21.4 16.7 25.1

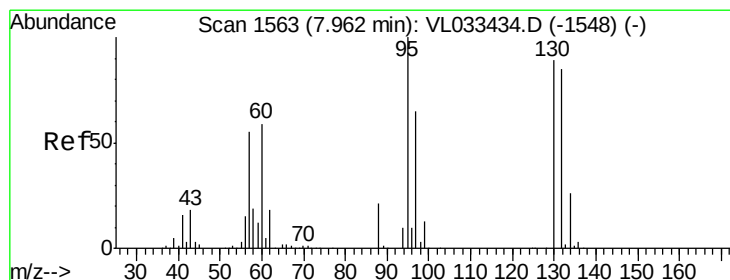
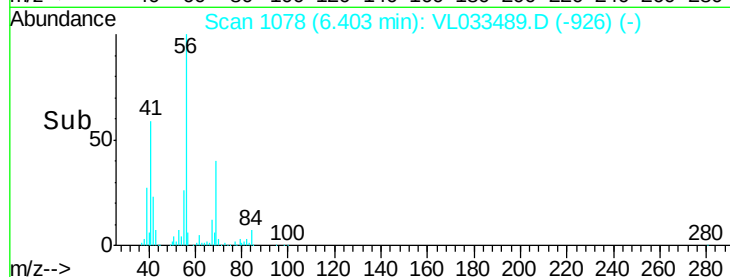
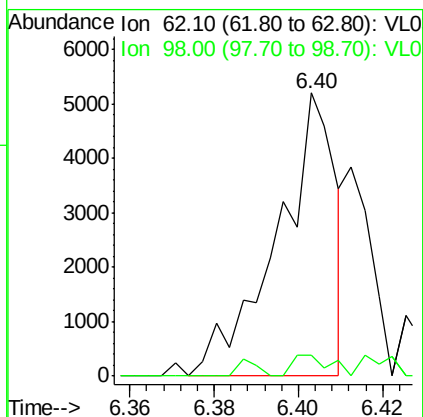
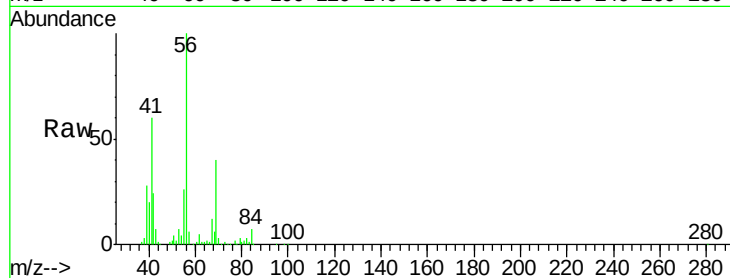




#37
 1,2-Dichloroethane
 Concen: 0.046 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.01 min
 Lab File: VL033489.D
 Acq: 28 Mar 2019 4:54

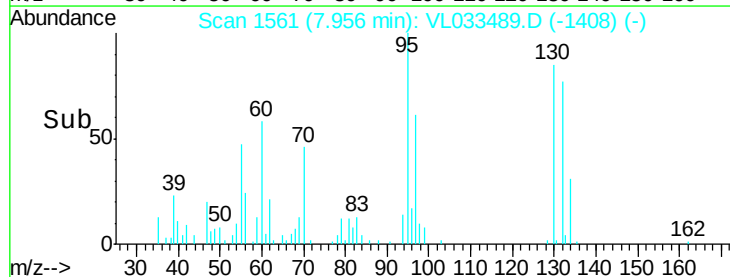
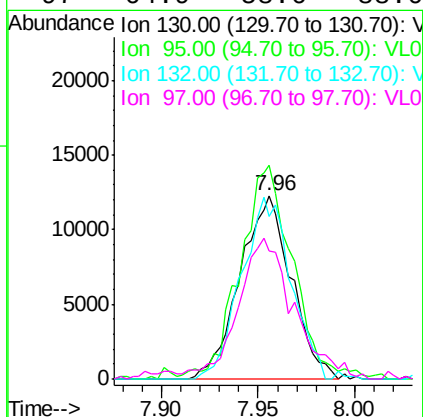
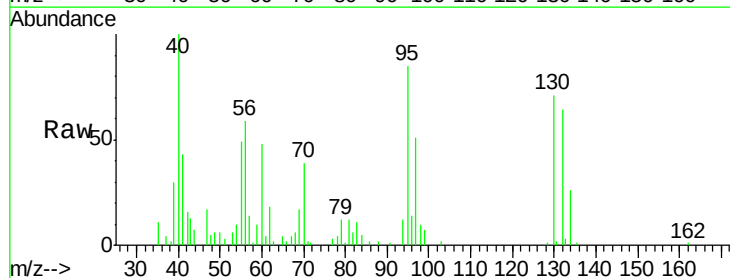
Instrument :
 MSVOA_L
 ClientSampleId :

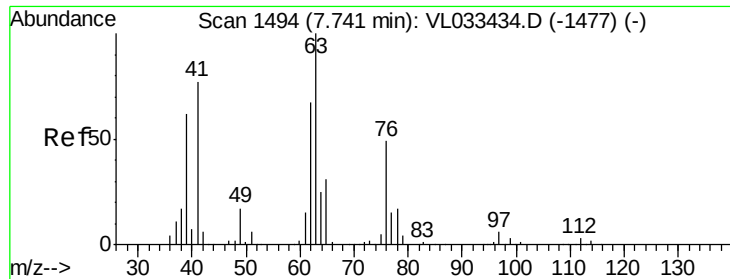
Tot Ion: 62 Resp: 4981
 Ion Ratio Lower Upper
 62 100
 98 1.9 4.4 6.6#



#38
 Trichloroethene
 Concen: 0.375 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033489.D
 Acq: 28 Mar 2019 4:54

Tgt Ion: 130 Resp: 22642
 Ion Ratio Lower Upper
 130 100
 95 112.5 89.8 134.8
 132 88.6 76.6 115.0
 97 64.9 58.6 88.0





#39

1,2-Dichloropropane

Concen: 7.609 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.46 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

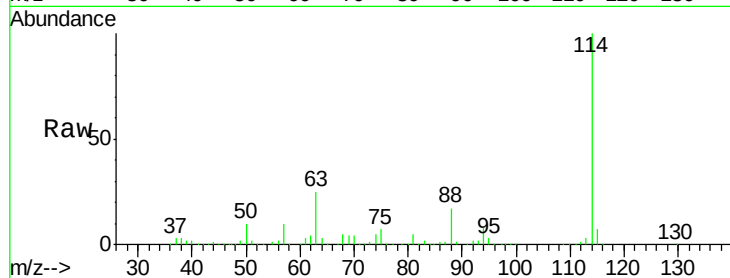
Tot Ion: 63 Resp: 477917

Ion Ratio Lower Upper

63 100

41 0.0 61.2 91.8#

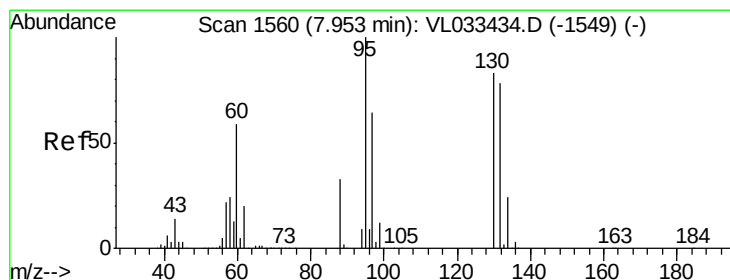
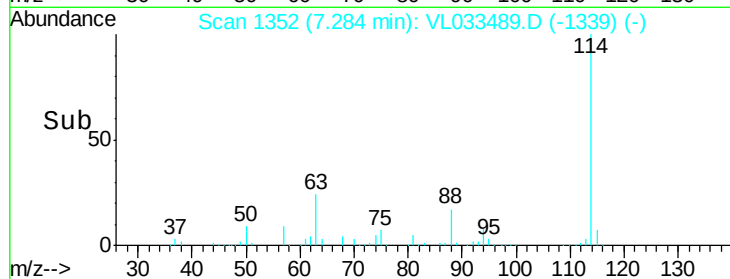
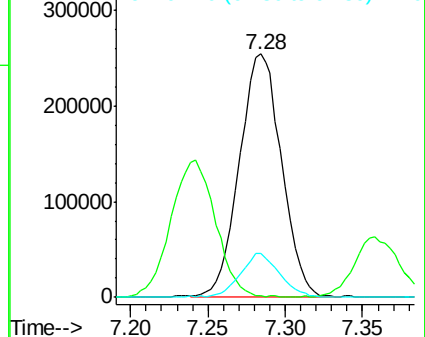
62 18.0 54.0 81.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.094 ppbv

RT: 7.98 min Scan# 1569

Delta R.T. 0.03 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Tgt Ion: 88 Resp: 2103

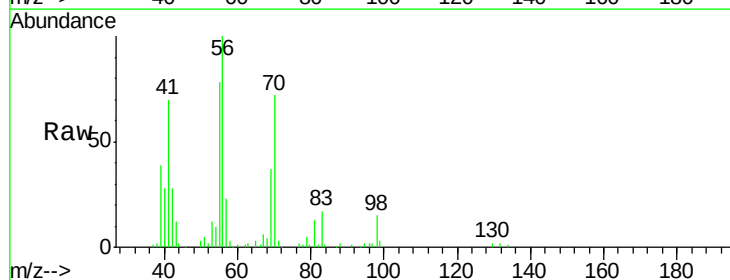
Ion Ratio Lower Upper

88 100

58 258.5 105.6 158.4#

43 0.0 216.7 325.1#

57 0.0 975.0 1462.4#

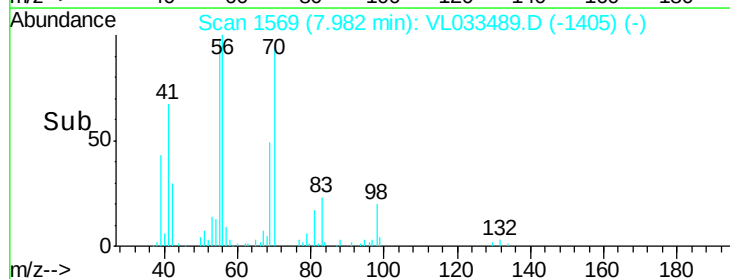
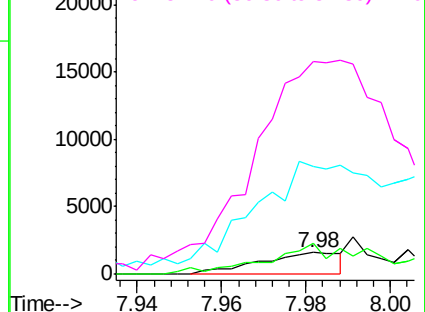


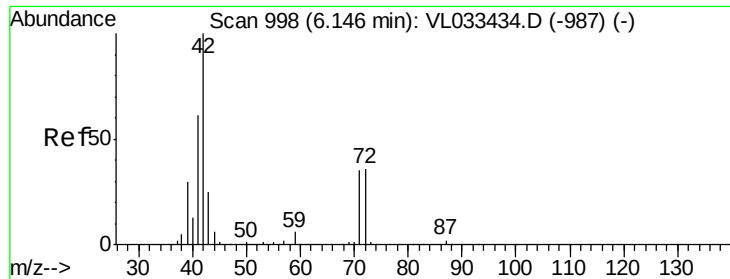
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.391 ppbv

RT: 6.15 min Scan# 999

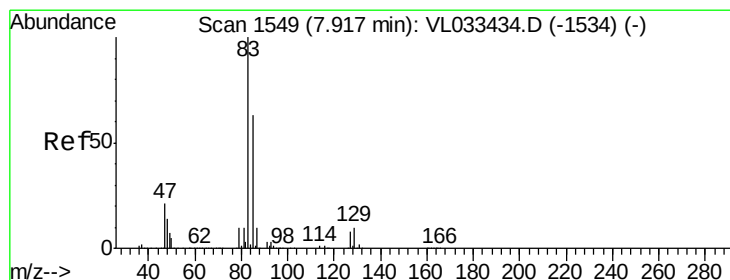
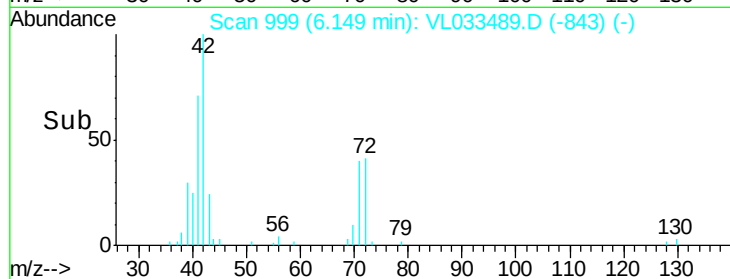
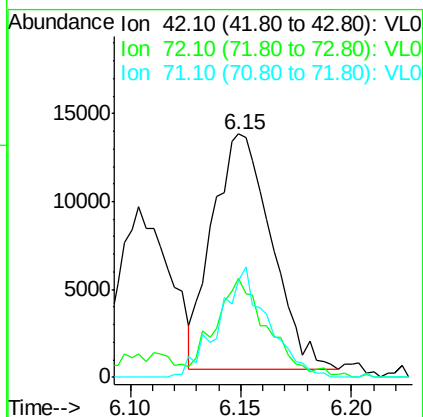
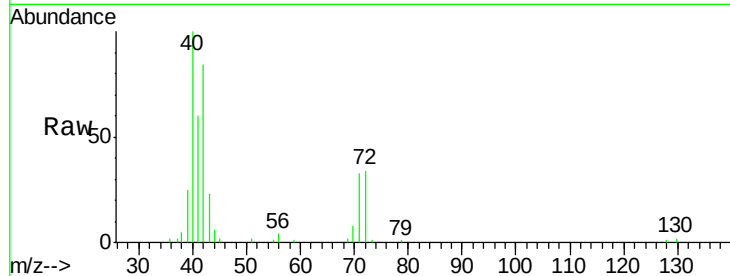
Delta R.T. 0.00 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	42	Resp:	24667
Ion	Ratio	Lower	Upper
42	100		
72	48.3	30.2	45.2#
71	39.0	29.4	44.2



#42

Bromodichloromethane

Concen: 0.089 ppbv

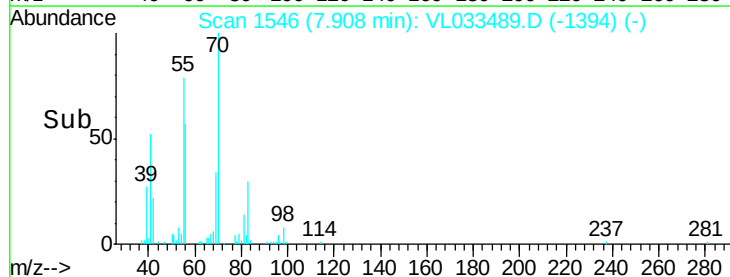
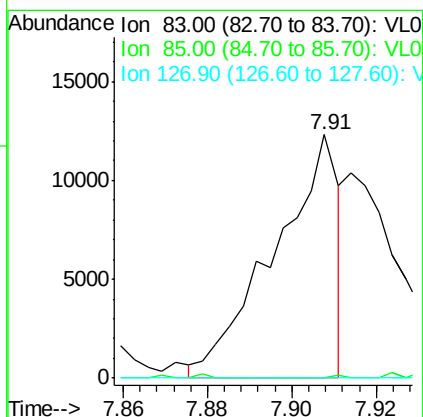
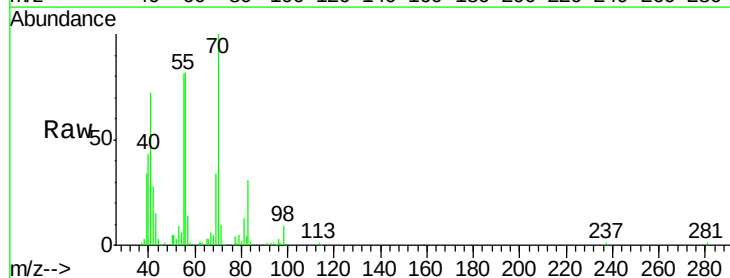
RT: 7.91 min Scan# 1546

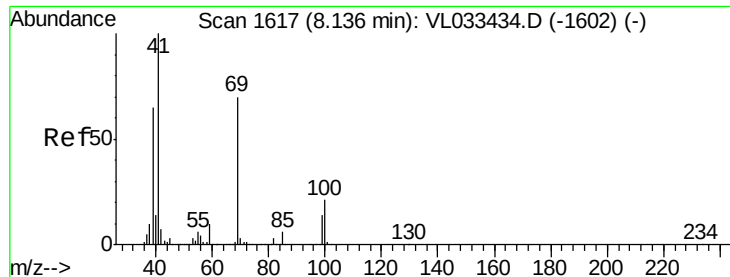
Delta R.T. -0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Tgt Ion:	83	Resp:	13038
Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.7	76.1#
127	0.0	6.6	9.8#

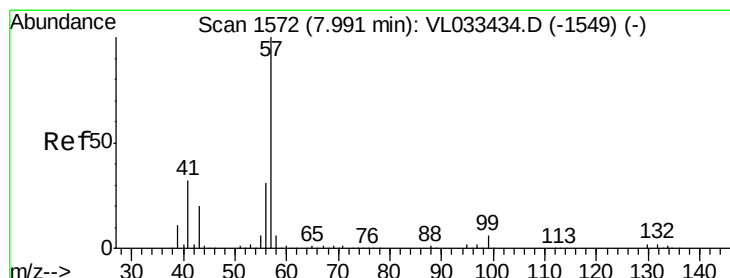
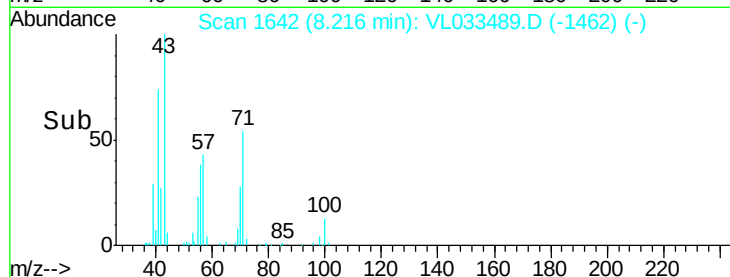
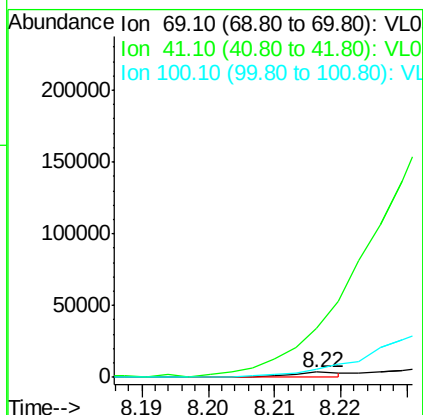
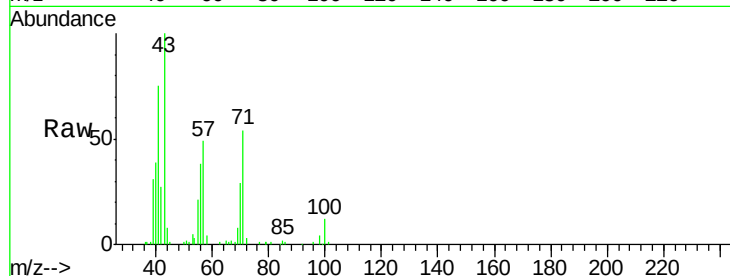




#43
Methyl Methacrylate
Concen: 0.031 ppbv
RT: 8.22 min Scan# 1642
Delta R.T. 0.08 min
Lab File: VL033489.D
Acq: 28 Mar 2019 4:54

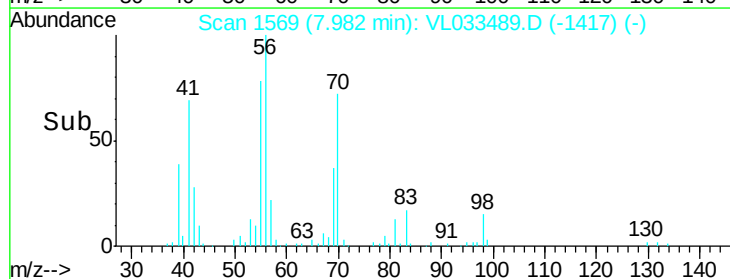
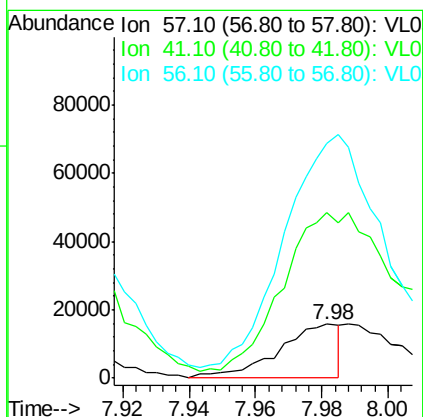
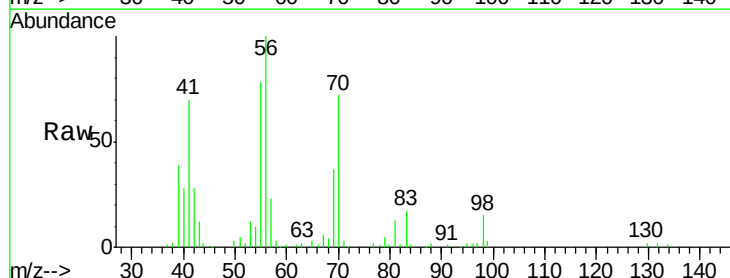
Instrument :
MSVOA_L
ClientSampled :

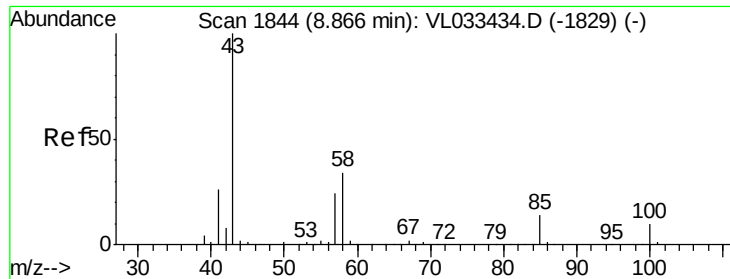
Tot Ion: 69 Resp: 2017
Ion Ratio Lower Upper
69 100
41 0.0 116.6 174.8#
100 0.0 24.4 36.6#



#44
2,2,4-Trimethylpentane
Concen: 0.071 ppbv
RT: 7.98 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL033489.D
Acq: 28 Mar 2019 4:54

Tgt Ion: 57 Resp: 19790
Ion Ratio Lower Upper
57 100
41 0.0 26.0 39.0#
56 0.0 24.6 37.0#





#50

4-Methyl-2-Pentanone

Concen: 0.078 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

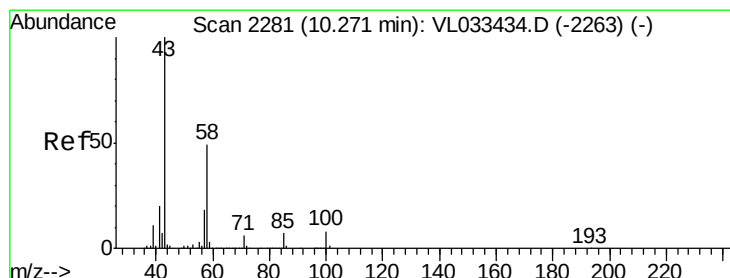
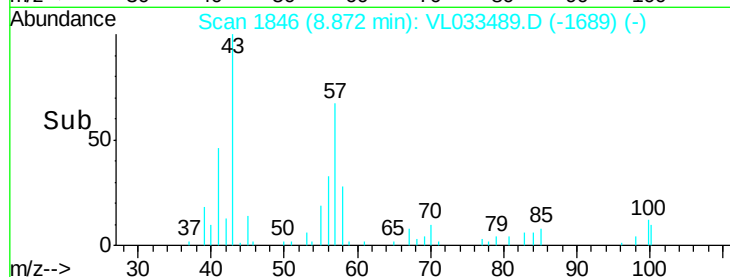
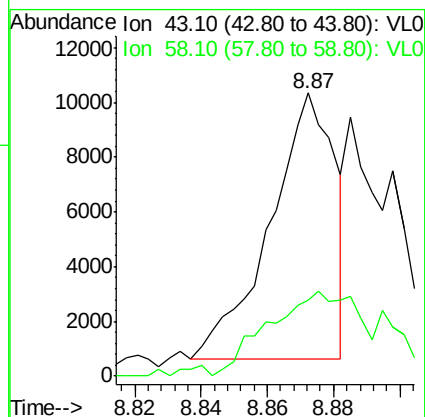
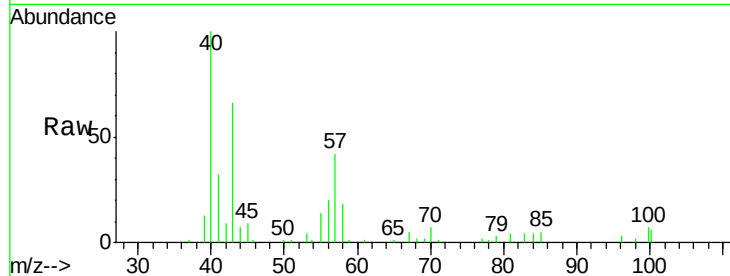
ClientSampleId :

Tot Ion: 43 Resp: 13189

Ion Ratio Lower Upper

43 100

58 59.1 28.0 42.0#



#51

2-Hexanone

Concen: 0.705 ppbv

RT: 10.24 min Scan# 2271

Delta R.T. -0.03 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

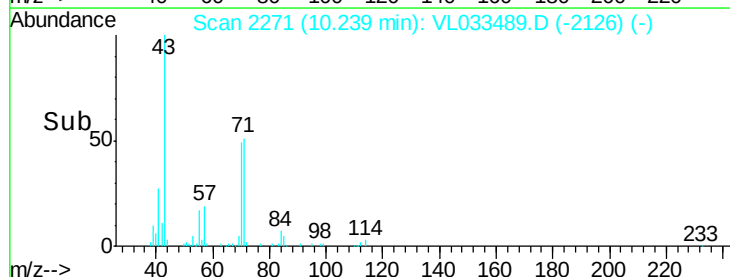
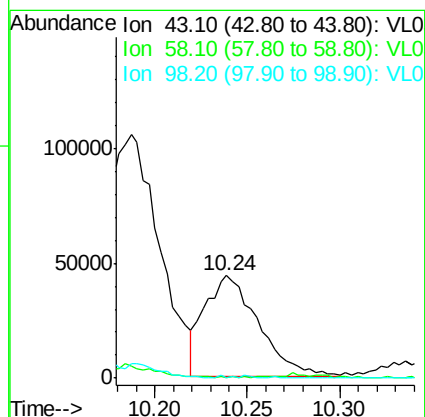
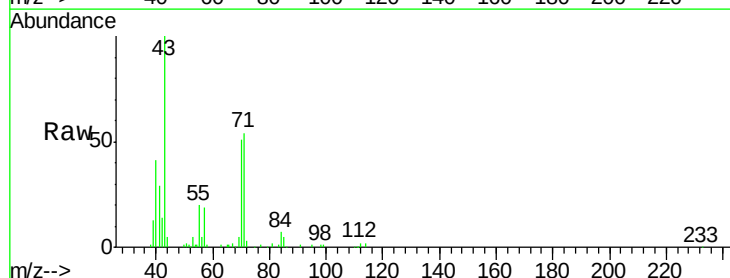
Tgt Ion: 43 Resp: 88364

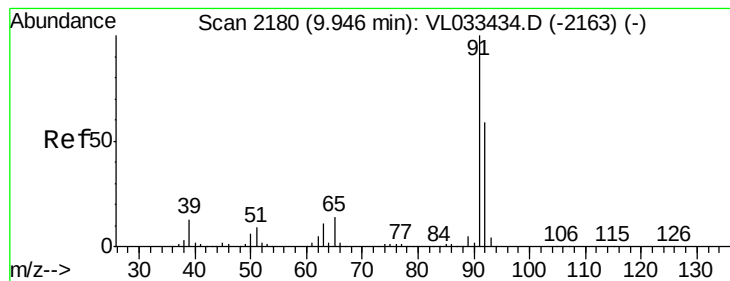
Ion Ratio Lower Upper

43 100

58 3.8 38.2 57.2#

98 1.3 0.2 0.2#





#53

Toluene

Concen: 6.317 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

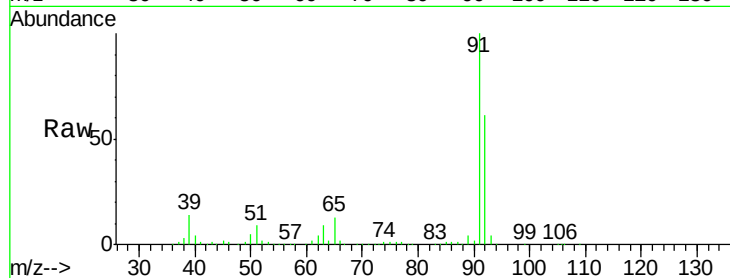
ClientSampleId :

Tot Ion: 91 Resp: 1177012

Ion Ratio Lower Upper

91 100

92 59.8 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.94

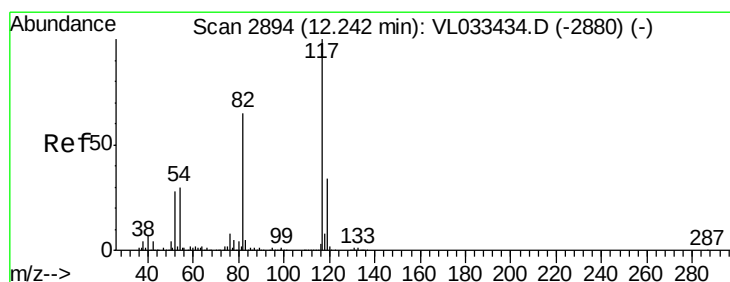
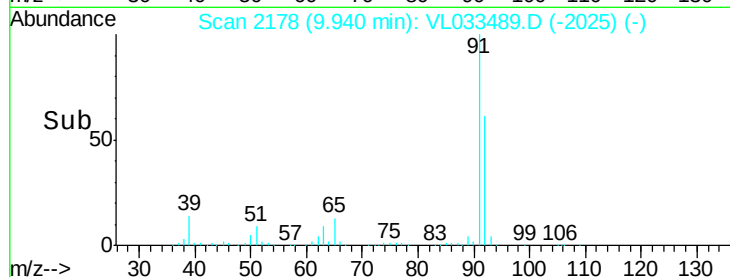
600000

400000

200000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

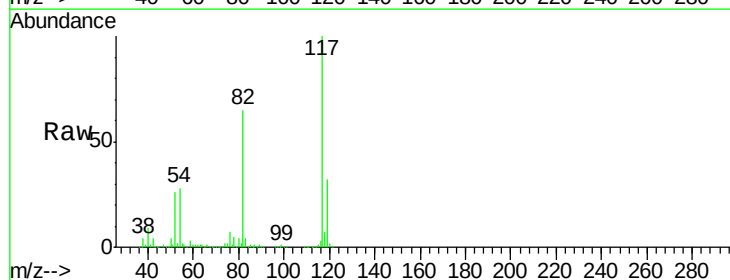
Tgt Ion: 117 Resp: 1913837

Ion Ratio Lower Upper

117 100

82 64.1 51.5 77.3

119 32.1 25.5 38.3



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

1200000

1000000

800000

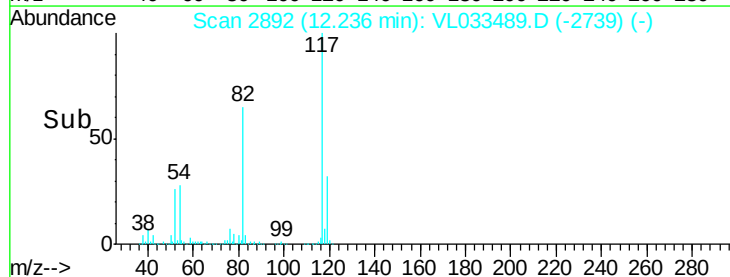
600000

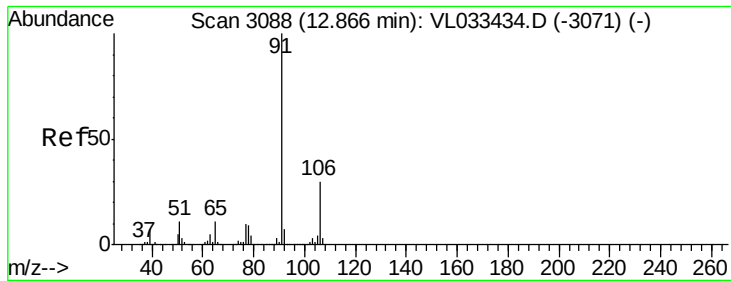
400000

200000

0

Time-->





#58

Ethyl Benzene

Concen: 0.206 ppbv

RT: 12.86 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

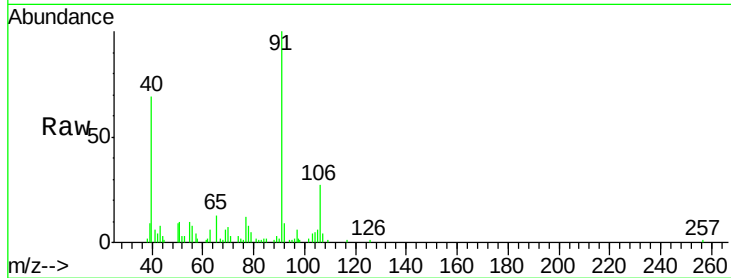
ClientSampled :

Tot Ion: 91 Resp: 52589

Ion Ratio Lower Upper

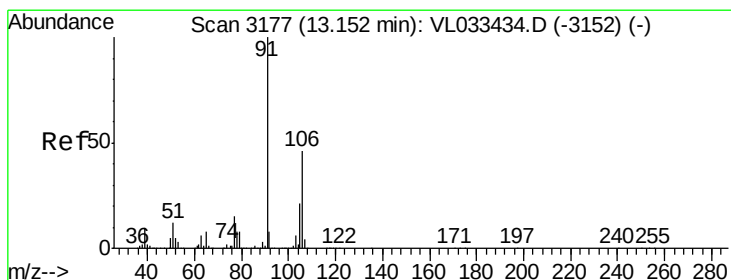
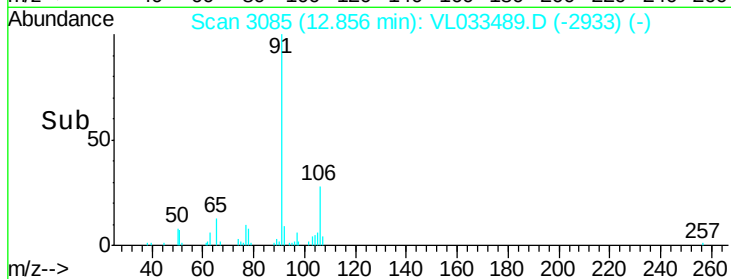
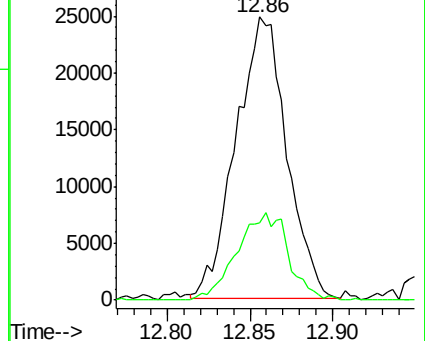
91 100

106 27.6 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.095 ppbv

RT: 13.15 min Scan# 3175

Delta R.T. -0.01 min

Lab File: VL033489.D

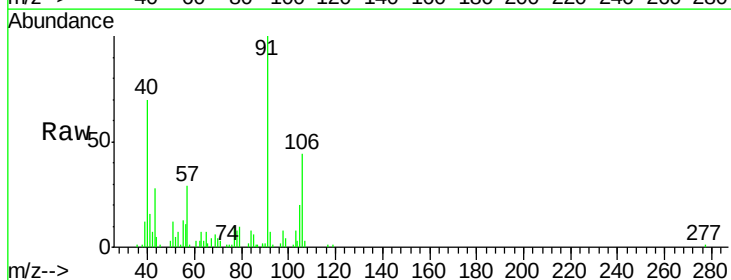
Acq: 28 Mar 2019 4:54

Tgt Ion: 91 Resp: 21734

Ion Ratio Lower Upper

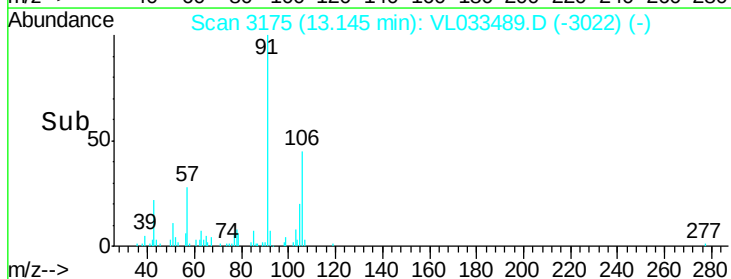
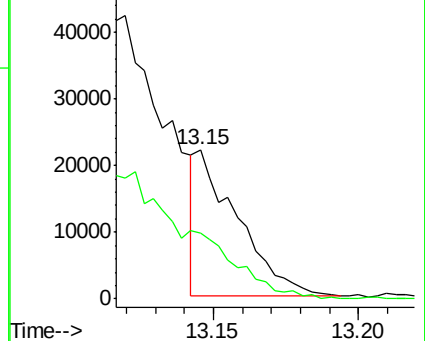
91 100

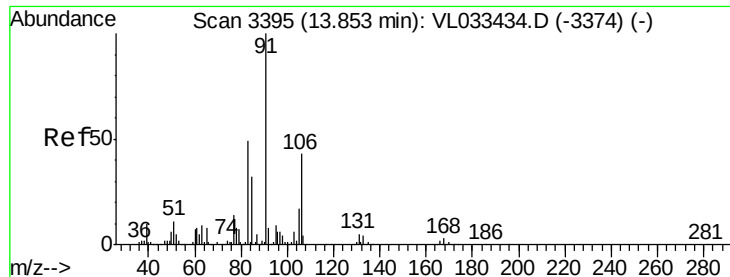
106 0.0 0.0 0.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

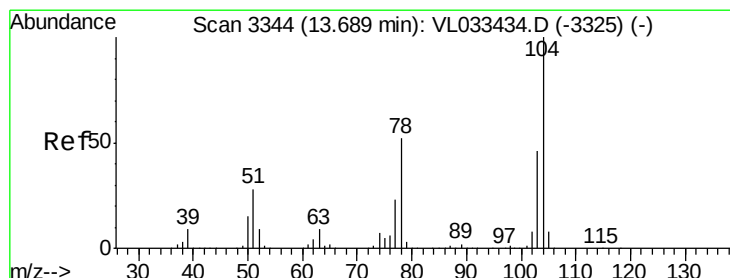
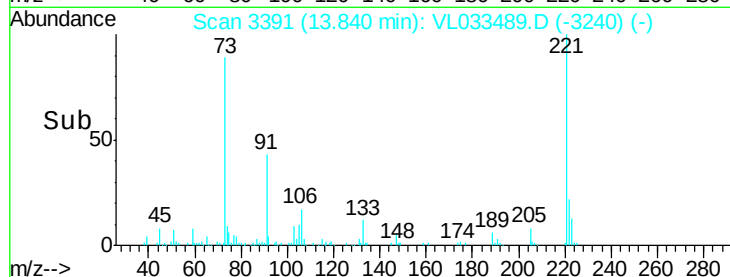
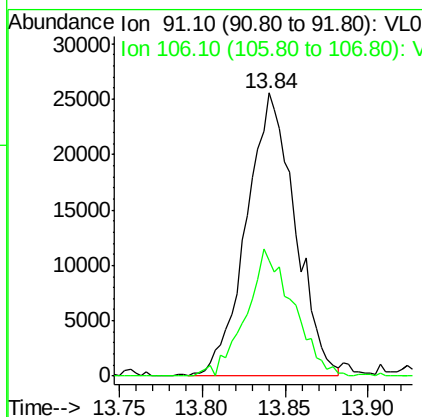
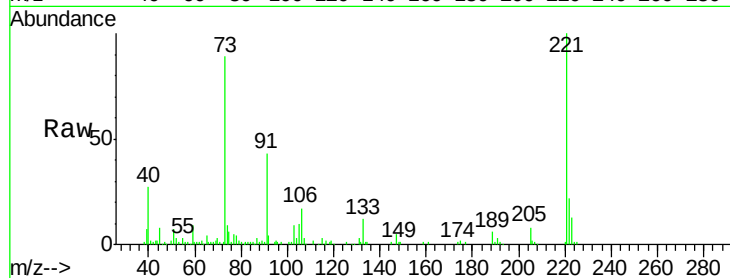




#60
o-Xylene
Concen: 0.236 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033489.D
Acq: 28 Mar 2019 4:54

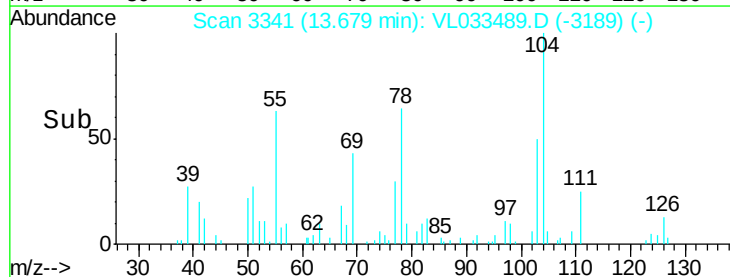
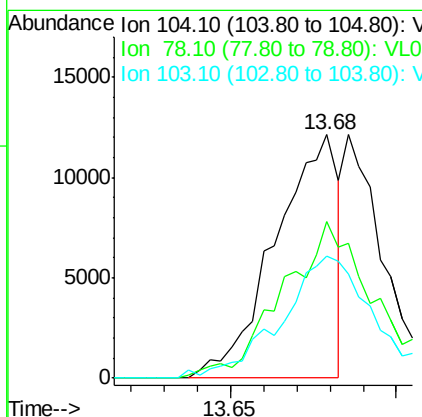
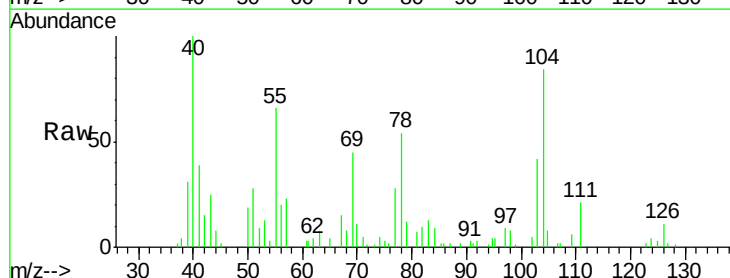
Instrument :
MSVOA_L
ClientSampled :

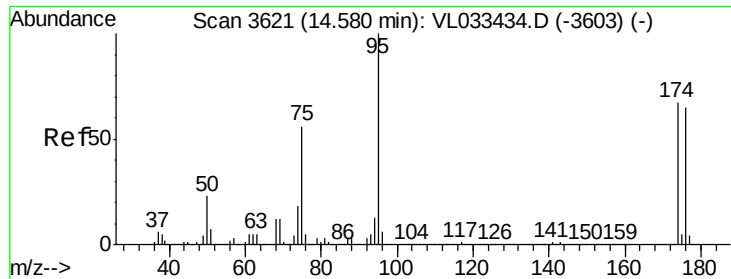
Tot Ion: 91 Resp: 52202
Ion Ratio Lower Upper
91 100
106 43.6 21.4 64.3



#61
Styrene
Concen: 0.106 ppbv
RT: 13.68 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL033489.D
Acq: 28 Mar 2019 4:54

Tgt Ion: 104 Resp: 15994
Ion Ratio Lower Upper
104 100
78 94.7 43.2 64.8#
103 74.5 37.8 56.8#

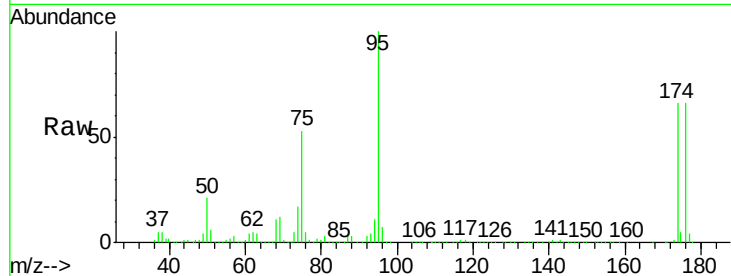




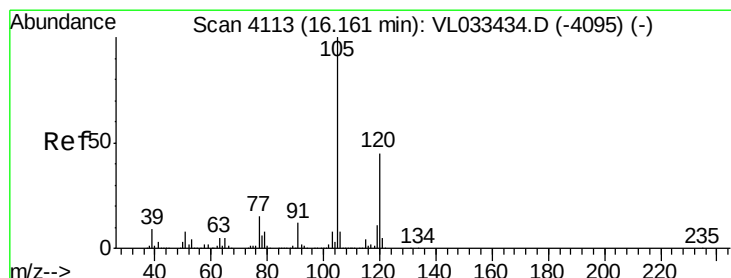
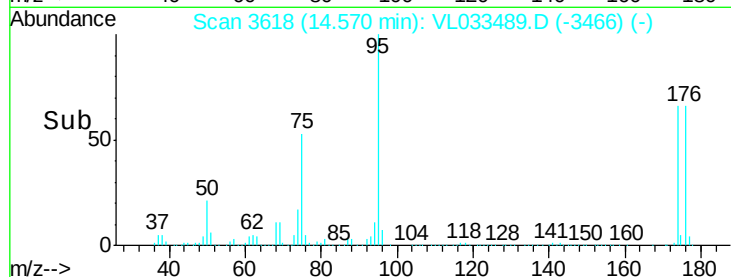
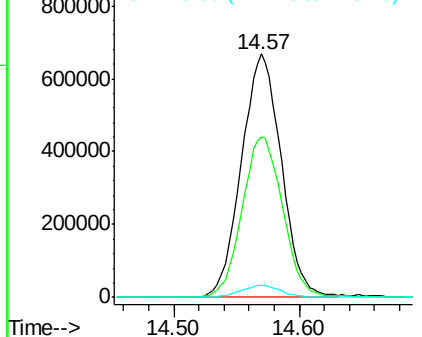
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.831 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033489.D
 Acq: 28 Mar 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 1475027
 Ion Ratio Lower Upper
 95 100
 174 67.6 52.9 79.3
 175 5.1 3.8 5.6

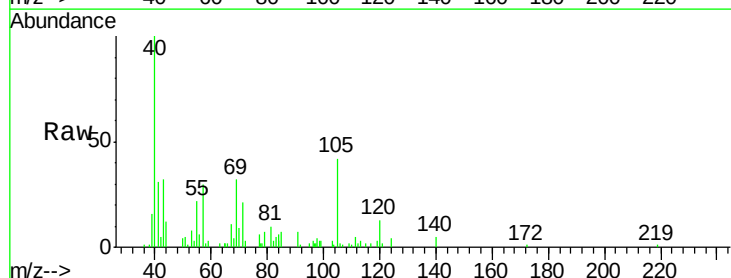


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

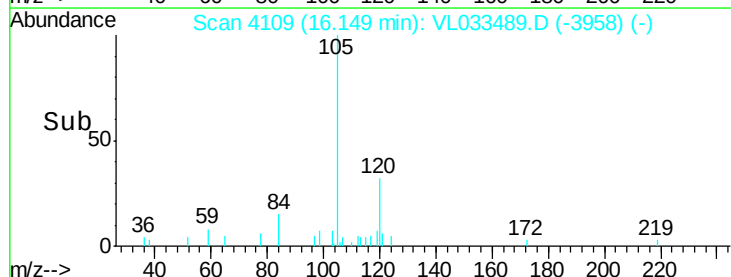
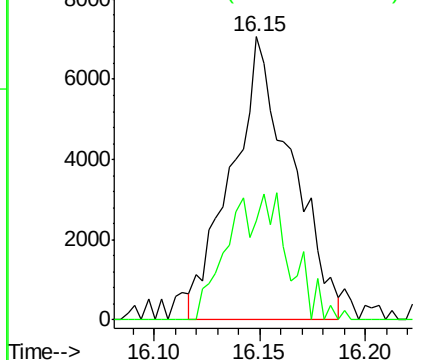


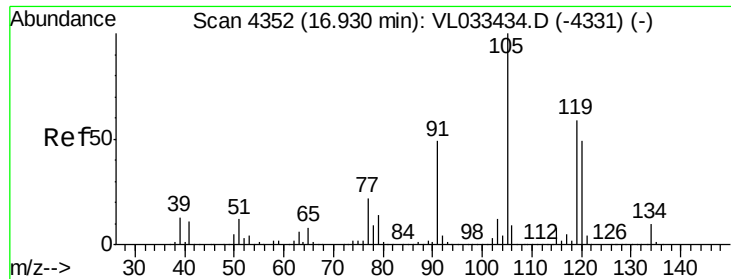
#73
 1,3,5-Trimethylbenzene
 Concen: 0.059 ppbv
 RT: 16.15 min Scan# 4109
 Delta R.T. -0.01 min
 Lab File: VL033489.D
 Acq: 28 Mar 2019 4:54

Tgt Ion: 105 Resp: 13997
 Ion Ratio Lower Upper
 105 100
 120 38.1 35.7 53.5



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.140 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. -0.01 min

Lab File: VL033489.D

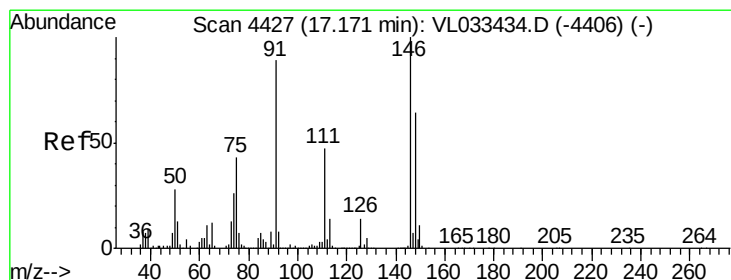
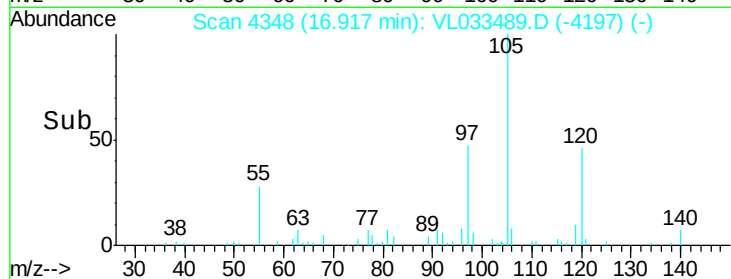
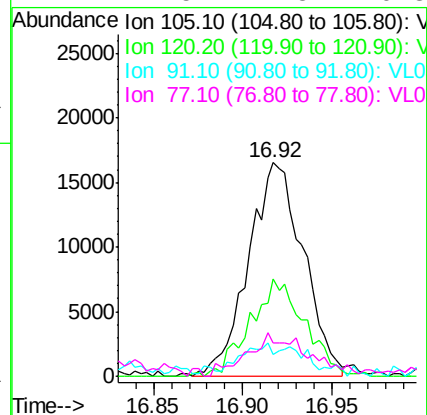
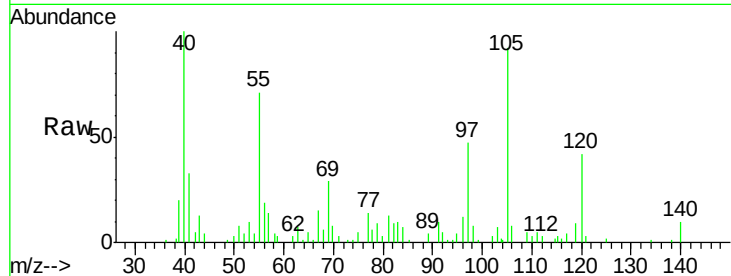
Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	35513
Ion	Ratio	Lower	Upper
105	100		
120	47.7	39.0	58.6
91	9.5	40.0	60.0#
77	12.5	17.5	26.3#



#75

1,3-Dichlorobenzene

Concen: 0.447 ppbv

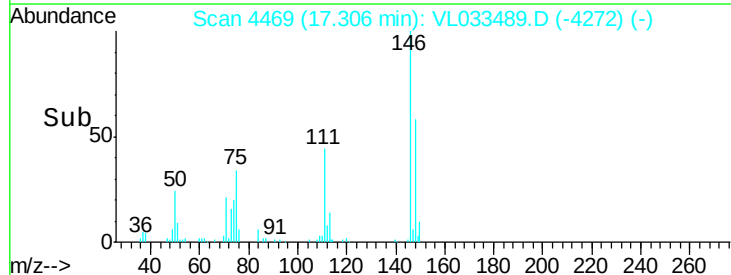
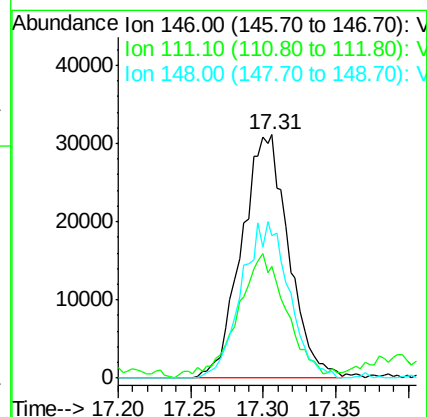
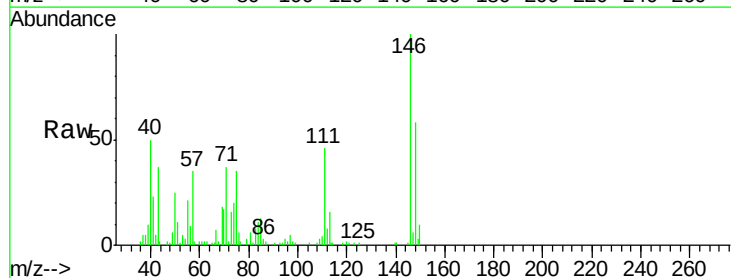
RT: 17.31 min Scan# 4469

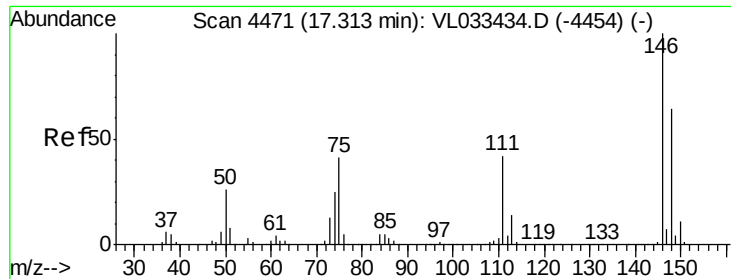
Delta R.T. 0.13 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Tgt Ion:	146	Resp:	70253
Ion	Ratio	Lower	Upper
146	100		
111	50.3	22.9	68.8
148	64.9	32.0	96.2





#76

1,4-Dichlorobenzene

Concen: 0.458 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. -0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

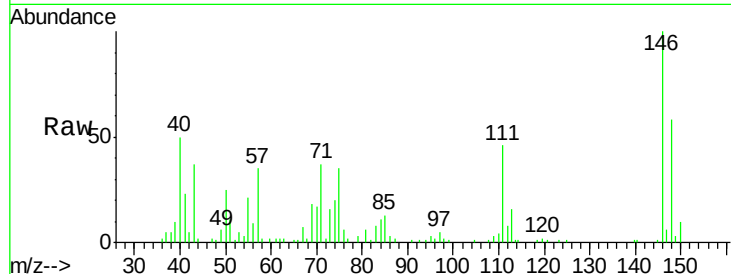
Tot Ion:146 Resp: 70253

Ion Ratio Lower Upper

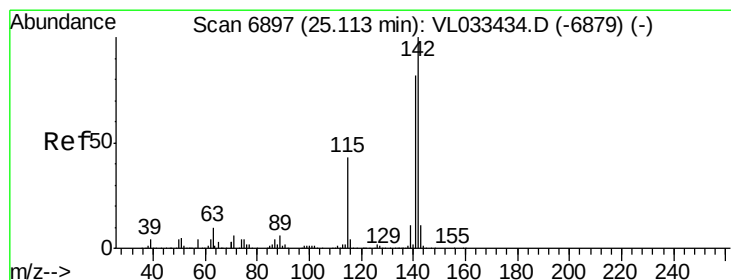
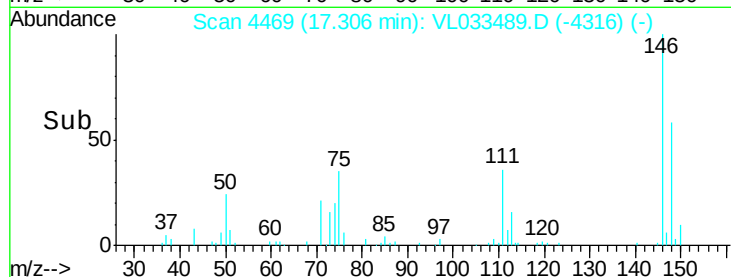
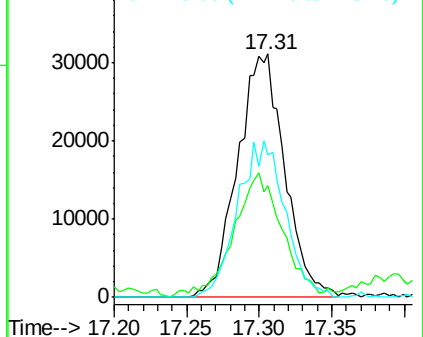
146 100

111 53.9 21.7 65.1

148 65.0 32.0 96.2



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



#80

Naphthalene, 2-methyl-

Concen: 0.050 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.01 min

Lab File: VL033489.D

Acq: 28 Mar 2019 4:54

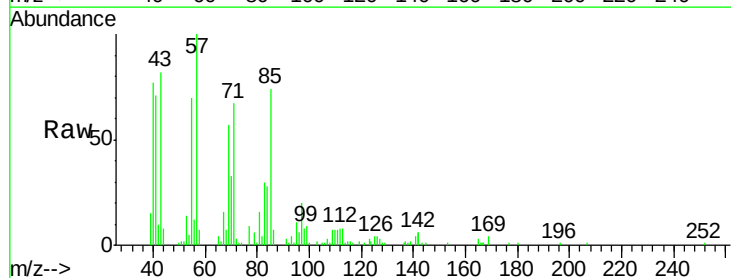
Tgt Ion:142 Resp: 3623

Ion Ratio Lower Upper

142 100

141 108.4 66.6 99.8#

115 55.1 34.4 51.6#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

