

Data File : VL033259.D

Acq On : 8 Mar 2019 14:41

Operator : SY/AP

Sample : VSTDIC0.5

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Quant Time: Mar 08 16:17:09 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030819AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 16:12:14 2019

QLast Update : Fri Mar 08 16:12:14 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	948418	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2160536	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2180802	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1899831	11.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.08	85	100138	0.747 ppbv	95
3) Chlorodifluoromethane	3.02	51	59606	0.549 ppbv	100
4) Chloromethane	3.18	50	29127	0.521 ppbv	92
5) Vinyl Chloride	3.29	62	29266	0.467 ppbv	97
6) Bromomethane	3.51	94	9402	0.262 ppbv	81
7) Chloroethane	3.61	64	10282	0.491 ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	78344	0.592 ppbv	98
9) Propene	3.04	41	25733	0.532 ppbv	99
10) Heptane	8.24	43	63831	0.485 ppbv	97
11) Trichlorofluoromethane	4.01	101	84162	0.535 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.55	101	30738	0.301 ppbv #	31
13) Ethanol	3.66	45	10401	0.719 ppbv	92
14) Bromoethene	3.79	108	21563	0.502 ppbv	98
15) Acetone	3.92	43	63587	0.521 ppbv	96
16) 1,3-Butadiene	3.36	39	24277	0.498 ppbv	94
17) tert-Butyl alcohol	4.35	59	1034	0.052 ppbv #	75
18) 1,1-Dichloroethene	4.35	96	13250	0.292 ppbv	99
19) Isopropyl Alcohol	4.04	45	27134	0.374 ppbv #	91
20) Methylene Chloride	4.41	84	27414	0.593 ppbv	95
21) Allyl Chloride	4.48	41	32985	0.484 ppbv	93
22) trans-1,2-Dichloroethene	4.96	96	13822	0.298 ppbv	85
23) Vinyl Acetate	5.16	43	80458	0.447 ppbv #	95
24) 1,1-Dichloroethane	5.09	63	65771	0.512 ppbv	98
25) Ethyl Acetate	5.78	43	112368	0.502 ppbv	99
26) Hexane	5.78	57	54789	0.524 ppbv	93
27) Carbon Disulfide	4.62	76	47133	0.467 ppbv #	87
28) Methyl tert-Butyl Ether	5.13	73	66141	0.458 ppbv	100
29) Chloroform	5.85	83	80901	0.497 ppbv	95
30) Cyclohexane	7.25	84	29580	0.378 ppbv #	85
31) cis-1,2-Dichloroethene	5.64	61	46409	0.459 ppbv #	84
32) 1,1,1-Trichloroethane	6.62	97	74893	0.475 ppbv	96
34) 2-Butanone	5.34	43	70234	0.469 ppbv	98
35) Carbon Tetrachloride	7.13	117	43239	0.265 ppbv	93
36) Benzene	7.00	78	96611	0.476 ppbv	97
37) 1,2-Dichloroethane	6.41	62	36181	0.287 ppbv #	83
38) Trichloroethene	7.95	130	19106	0.249 ppbv	94
39) 1,2-Dichloropropane	7.74	63	36347	0.459 ppbv	90
40) 1,4-Dioxane	7.99	88	5347	0.182 ppbv #	1
41) Tetrahydrofuran	6.17	42	19474	0.237 ppbv #	38
42) Bromodichloromethane	7.91	83	79995	0.448 ppbv	98
43) Methyl Methacrylate	8.14	69	34407	0.419 ppbv	97

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030819AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 16:12:14 2019

QLast Update : Fri Mar 08 16:12:14 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	166440	0.464	ppbv	98
45) t-1,3-Dichloropropene	9.41	75	37541	0.378	ppbv	91
46) cis-1,3-Dichloropropene	8.83	75	46342	0.391	ppbv #	91
47) 1,1,2-Trichloroethane	9.61	97	40226	0.472	ppbv	99
48) Dibromochloromethane	10.44	129	28055	0.203	ppbv #	1
49) Bromoform	13.20	173	59078	0.536	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	94170	0.425	ppbv	100
51) 2-Hexanone	10.30	43	65646	0.396	ppbv #	99
52) Tetrachloroethene	11.37	164	35265	0.467	ppbv	96
53) Toluene	9.95	91	98355	0.420	ppbv	98
54) 1,2-Dibromoethane	10.76	107	58284	0.450	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	20805	0.220	ppbv #	1
57) Chlorobenzene	12.30	112	52720	0.310	ppbv	93
58) Ethyl Benzene	12.86	91	137070	0.454	ppbv #	88
59) m/p-Xylene	13.14	91	59678	0.232	ppbv #	32
60) o-Xylene	13.84	91	77567	0.316	ppbv #	35
61) Styrene	13.68	104	94529	0.548	ppbv	96
62) Isopropylbenzene	14.82	105	105589	0.309	ppbv #	51
63) 1,1,2,2-Tetrachloroethane	13.83	83	113685	0.652	ppbv	99
64) n-propylbenzene	15.72	120	42770	0.505	ppbv	88
65) tert-Butylbenzene	16.90	119	153338	0.526	ppbv	96
66) Benzyl Chloride	17.15	91	36090	0.320	ppbv	97
67) sec-Butylbenzene	17.45	105	119844	0.288	ppbv #	64
69) p-Isopropyltoluene	17.81	119	164972	0.491	ppbv	97
70) n-Butylbenzene	18.71	91	186034	0.505	ppbv	97
71) 2-Chlorotoluene	15.61	91	132644	0.508	ppbv	100
72) 4-Ethyltoluene	16.00	105	134011	0.500	ppbv	97
73) 1,3,5-Trimethylbenzene	16.15	105	131317	0.511	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	140934	0.522	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	85583	0.541	ppbv	95
76) 1,4-Dichlorobenzene	17.30	146	71459	0.456	ppbv	89
77) 1,2-Dichlorobenzene	17.99	146	78976	0.515	ppbv	95
78) Hexachloro-1,3-Butadiene	23.54	225	64276	0.592	ppbv	99
79) Naphthalene	22.41	128	107080	0.324	ppbv	97
80) Naphthalene,2-methyl-	25.12	142	9454	0.096	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	59251	0.357	ppbv	84

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

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MSVOA_L
ClientSampleId :
VSTDICC0.5

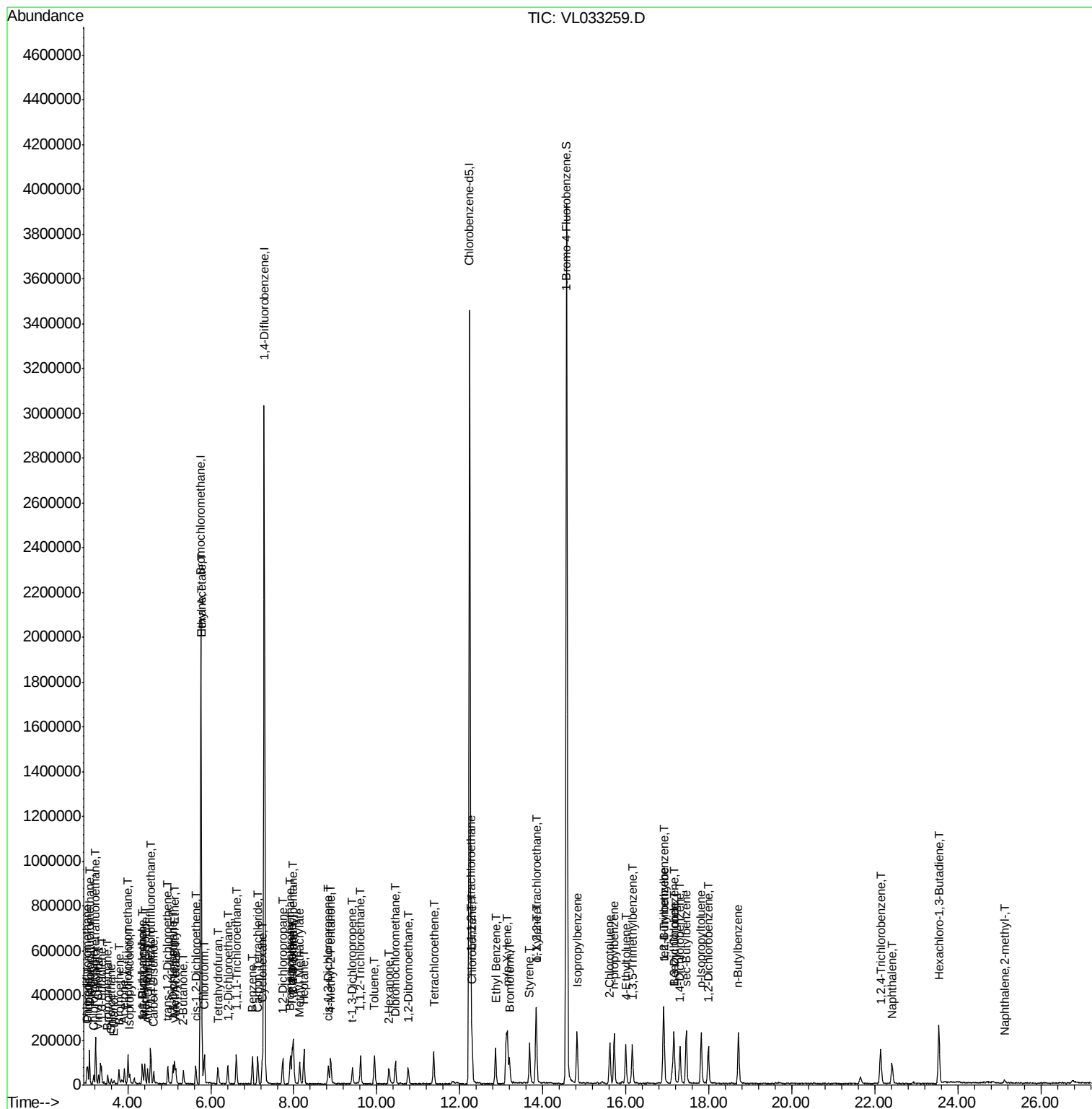
Quant Time: Mar 08 16:17:09 2019

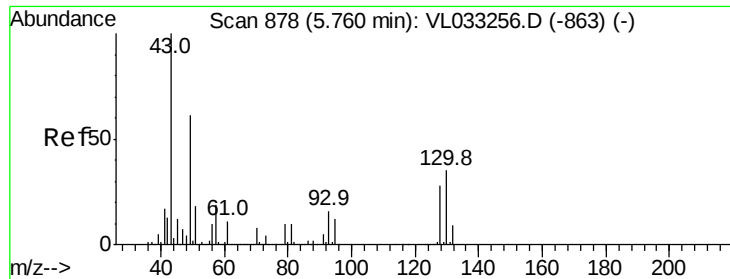
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL030819AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Mar 08 16:12:14 2019

QLast Update : Fri Mar 08 16:12:14 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

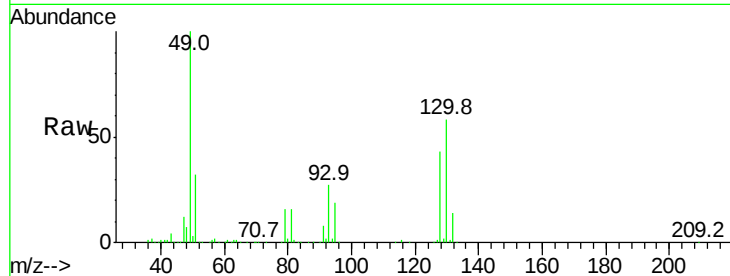
Tgt Ion: 49 Resp: 948418

Ion Ratio Lower Upper

49 100

128 45.5 22.5 67.5

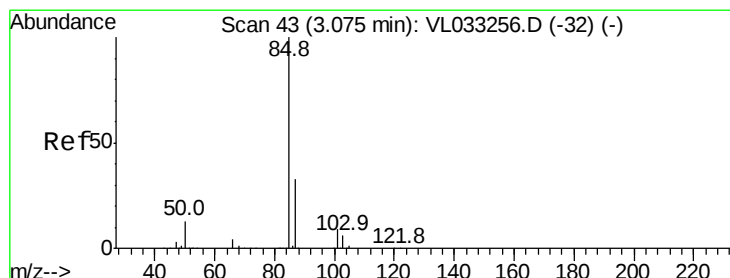
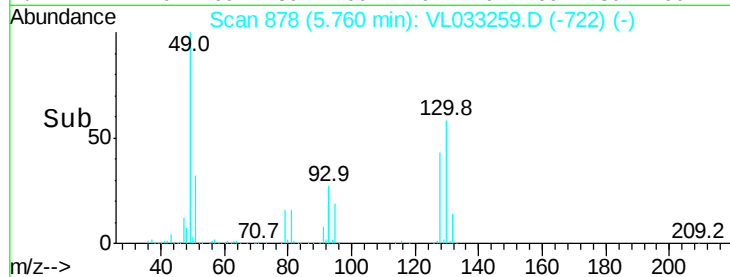
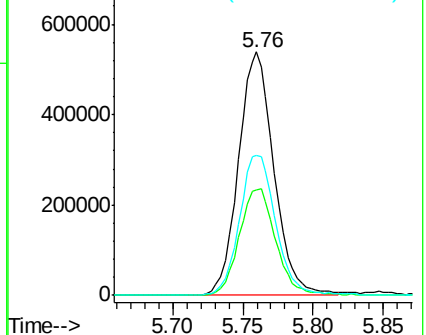
130 59.6 29.1 87.4



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



#2

Dichlorodifluoromethane

Concen: 0.747 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033259.D

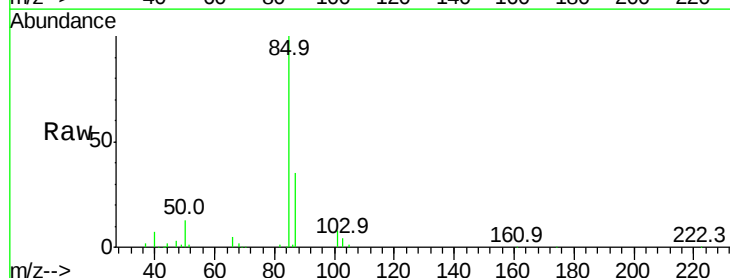
Acq: 8 Mar 2019 14:41

Tgt Ion: 85 Resp: 100138

Ion Ratio Lower Upper

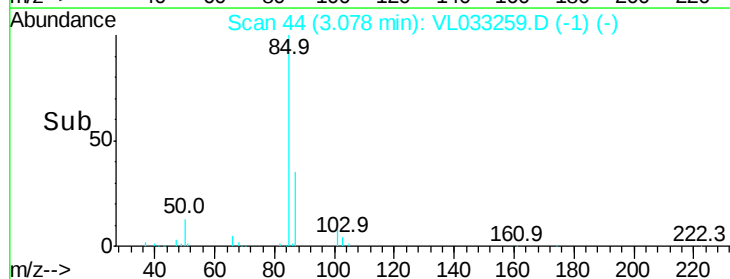
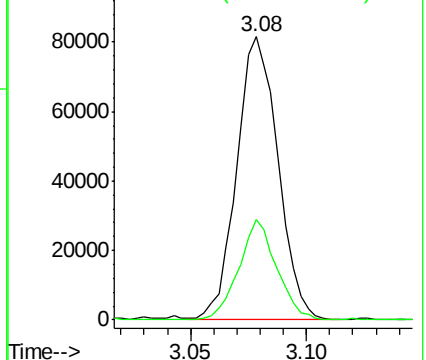
85 100

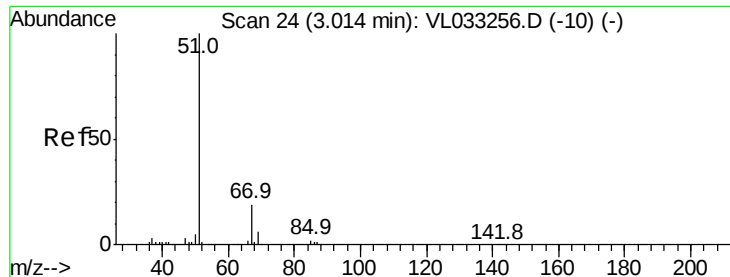
87 35.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

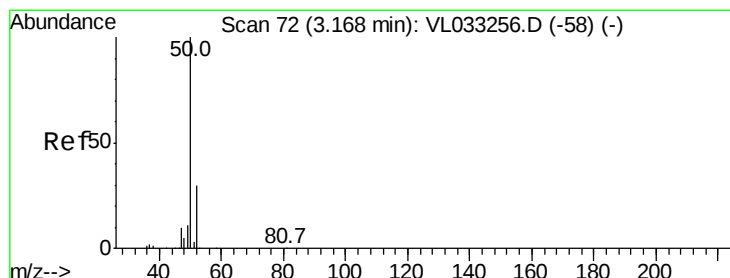
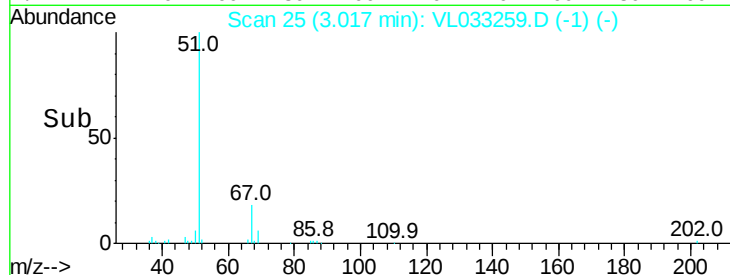
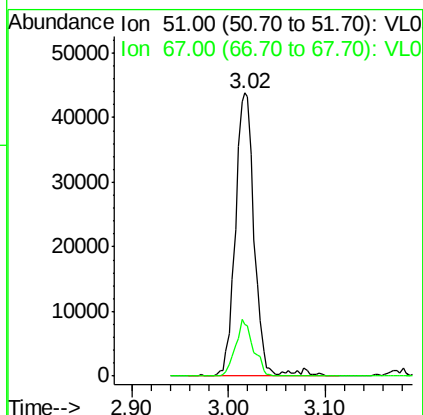
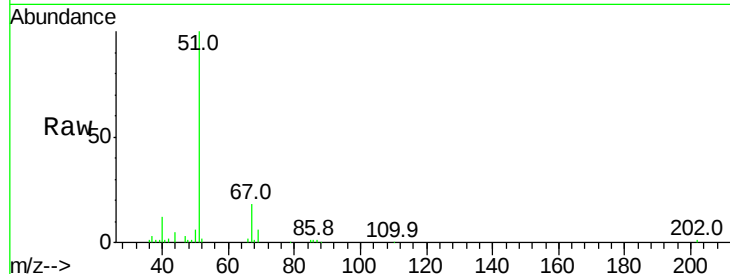




#3
Chlorodifluoromethane
Concen: 0.549 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

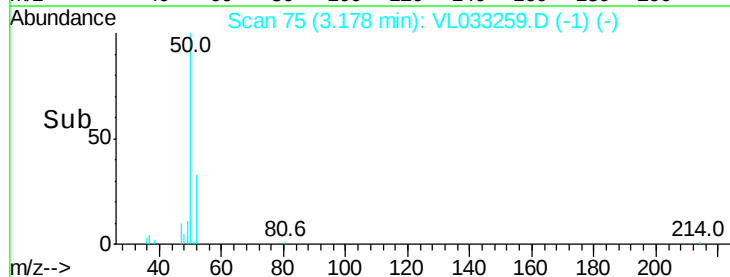
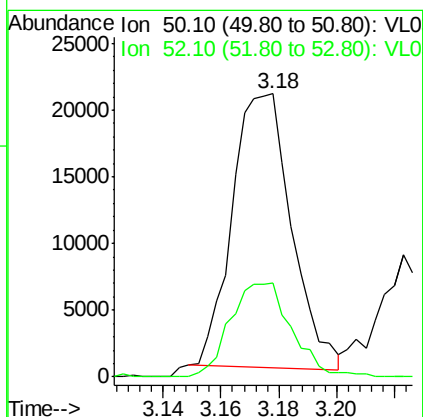
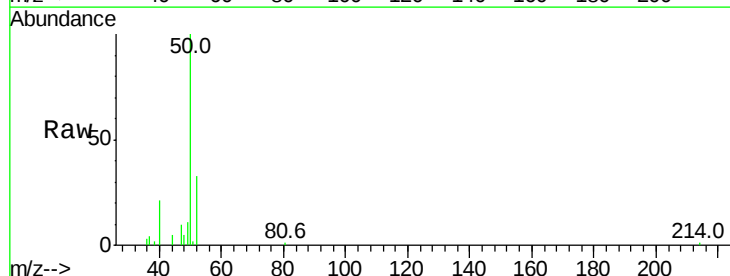
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

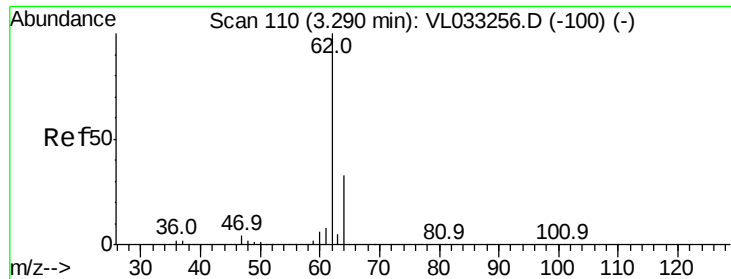
Tgt Ion: 51 Resp: 59606
Ion Ratio Lower Upper
51 100
67 18.6 15.0 22.6



#4
Chloromethane
Concen: 0.521 ppbv
RT: 3.18 min Scan# 75
Delta R.T. 0.01 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 50 Resp: 29127
Ion Ratio Lower Upper
50 100
52 34.4 24.2 36.2





#5

Vinyl Chloride

Concen: 0.467 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

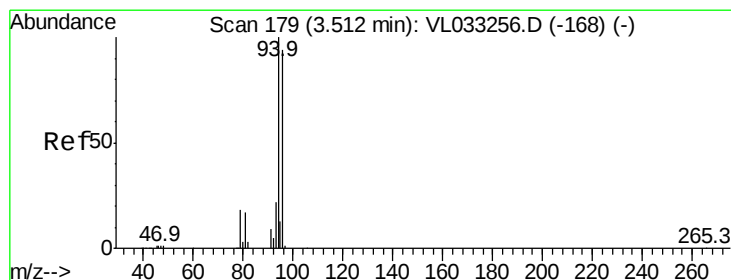
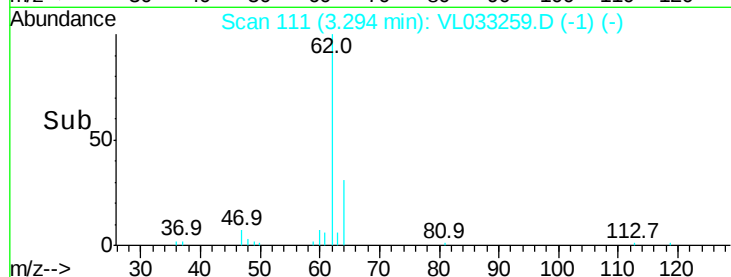
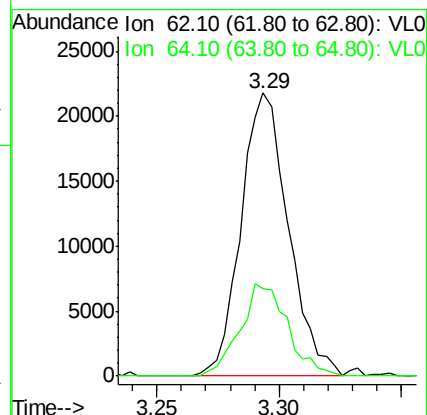
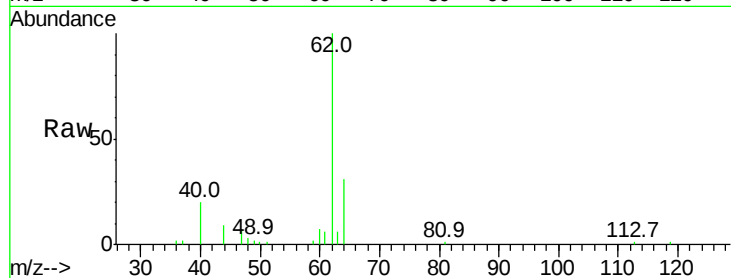
VSTDIC0.5

Tgt Ion: 62 Resp: 29266

Ion Ratio Lower Upper

62 100

64 31.1 26.4 39.6



#6

Bromomethane

Concen: 0.262 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033259.D

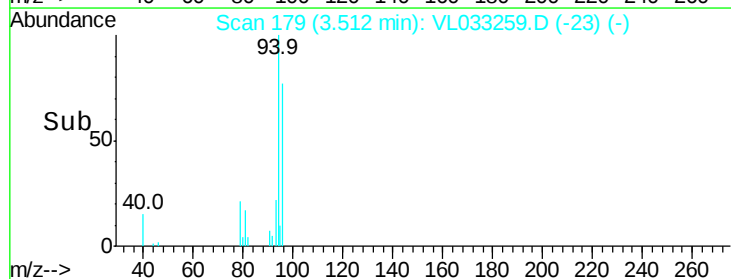
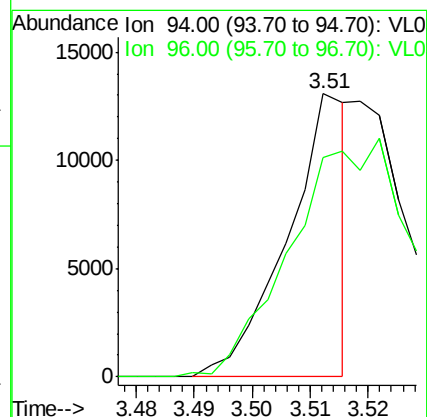
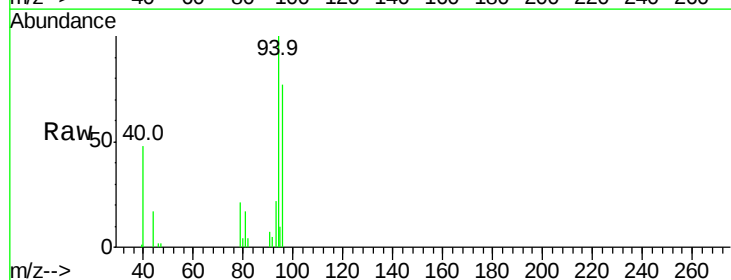
Acq: 8 Mar 2019 14:41

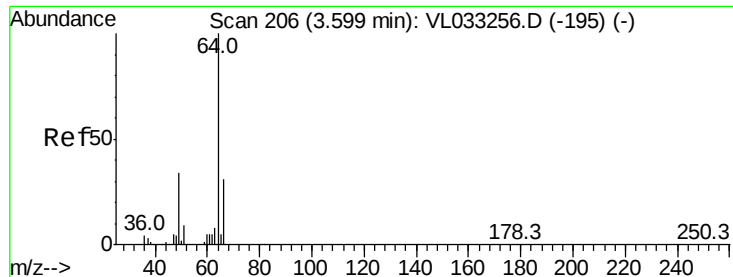
Tgt Ion: 94 Resp: 9402

Ion Ratio Lower Upper

94 100

96 75.6 75.3 112.9





#7

Chloroethane

Concen: 0.491 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

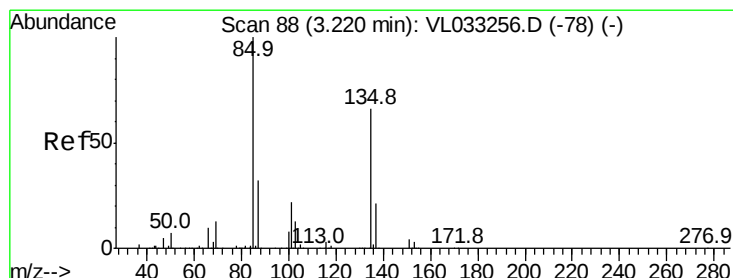
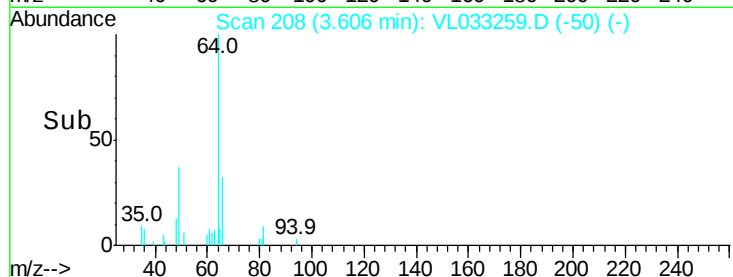
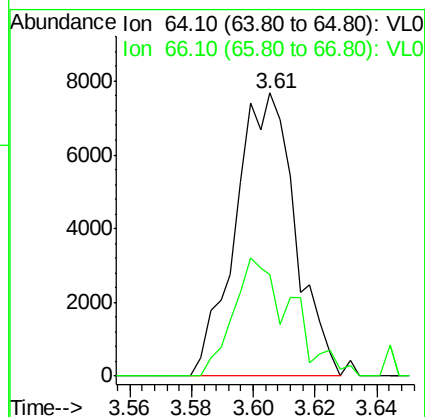
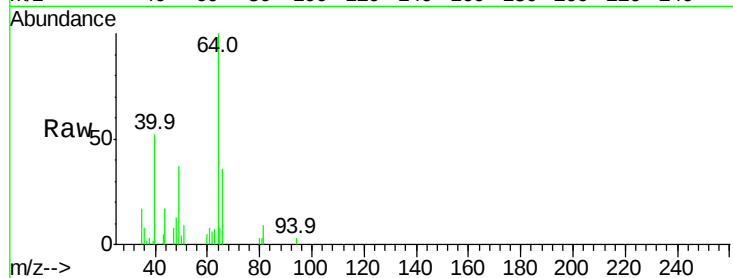
VSTDIC0.5

Tgt Ion: 64 Resp: 10282

Ion Ratio Lower Upper

64 100

66 36.0 25.2 37.8



#8

Dichlorotetrafluoroethane

Concen: 0.592 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033259.D

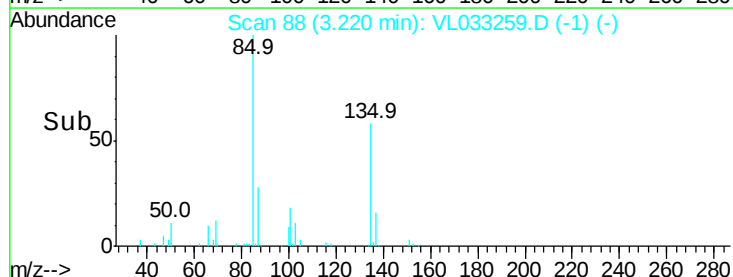
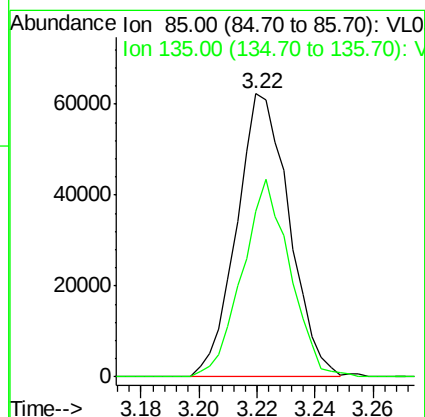
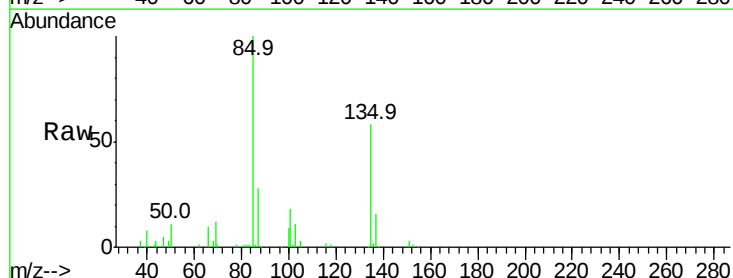
Acq: 8 Mar 2019 14:41

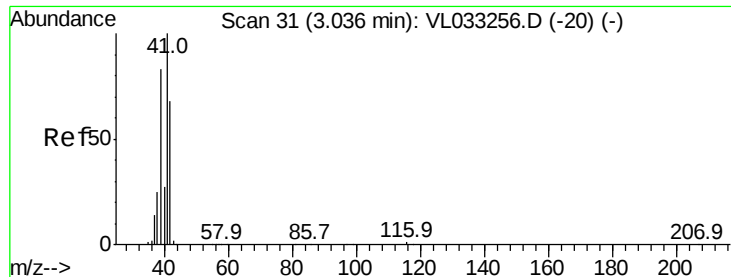
Tgt Ion: 85 Resp: 78344

Ion Ratio Lower Upper

85 100

135 63.5 52.3 78.5





#9

Propene

Concen: 0.532 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

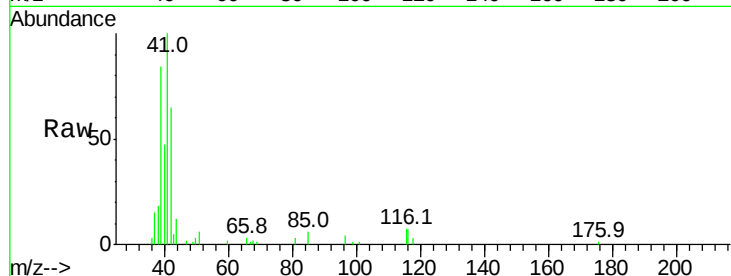
VSTDIC0.5

Tgt Ion: 41 Resp: 25733

Ion Ratio Lower Upper

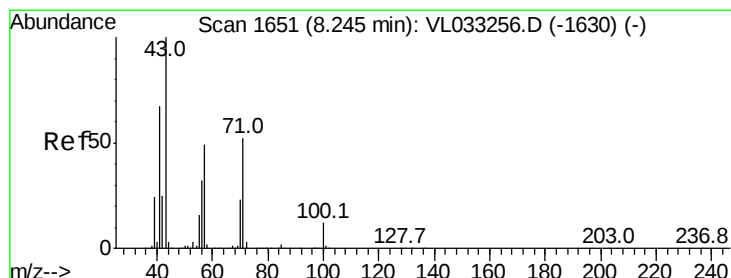
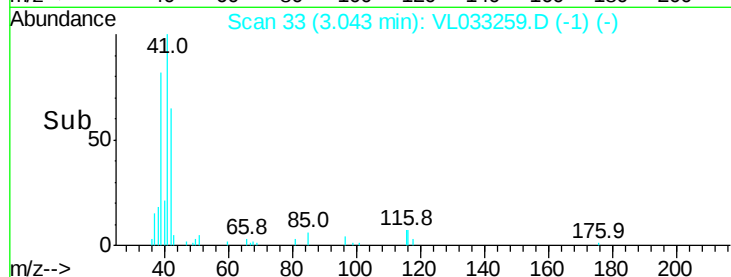
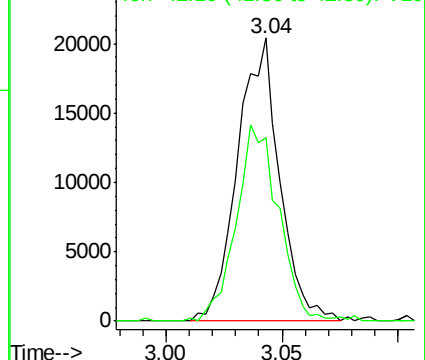
41 100

42 70.0 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.485 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033259.D

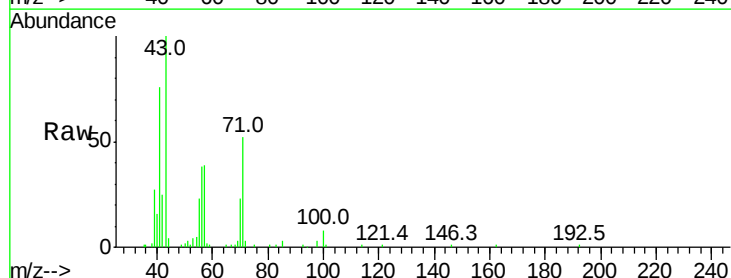
Acq: 8 Mar 2019 14:41

Tgt Ion: 43 Resp: 63831

Ion Ratio Lower Upper

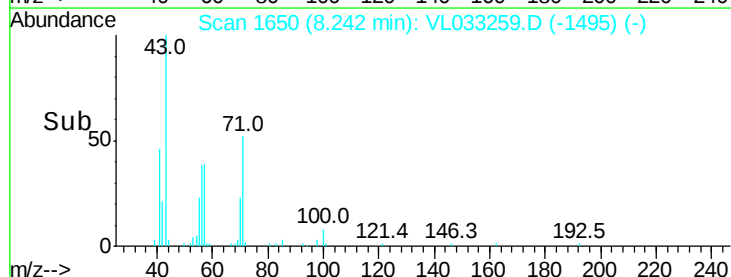
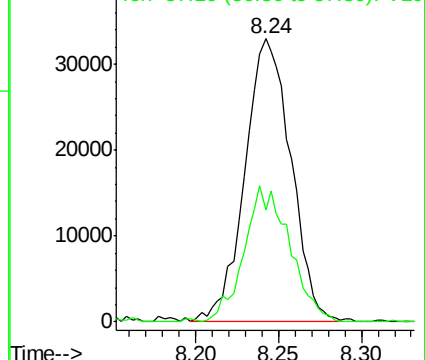
43 100

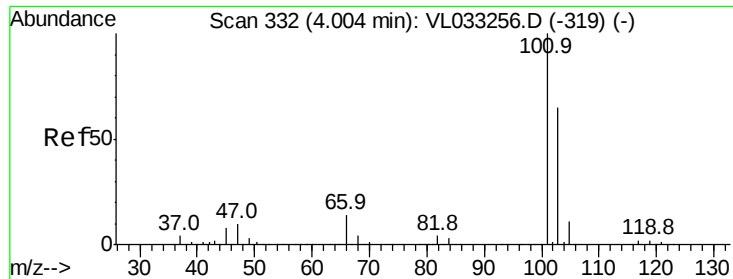
57 47.7 40.0 60.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

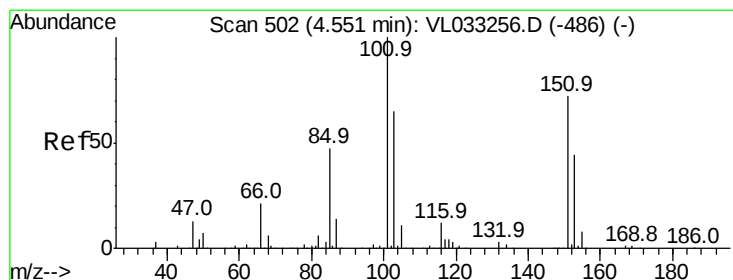
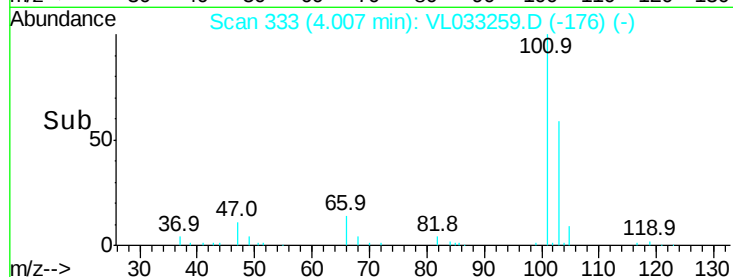
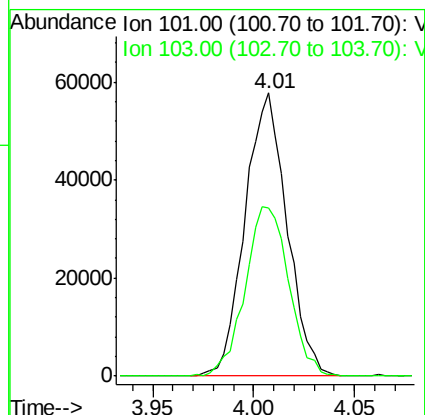
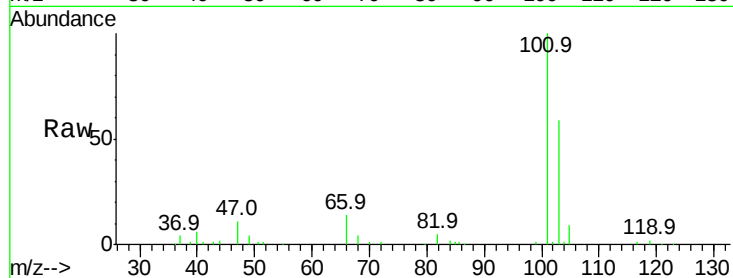




#11
 Trichlorofluoromethane
 Concen: 0.535 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

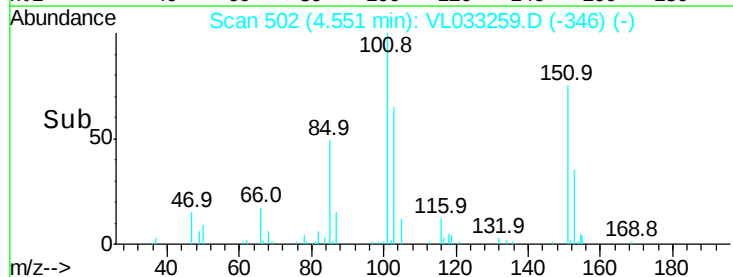
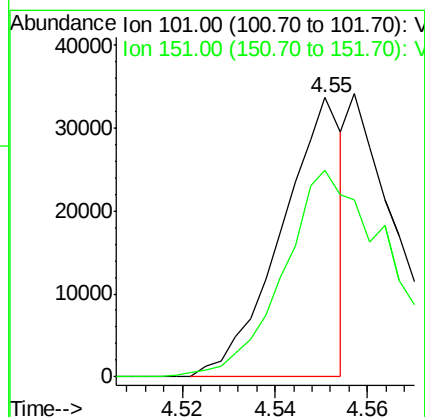
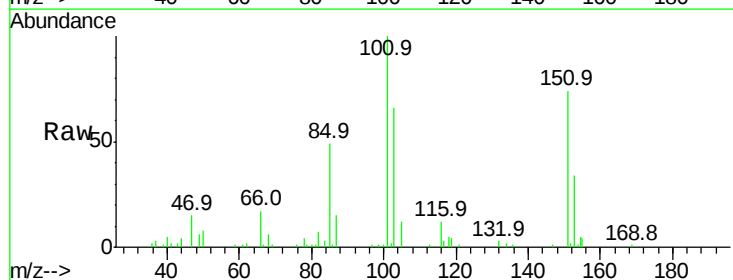
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

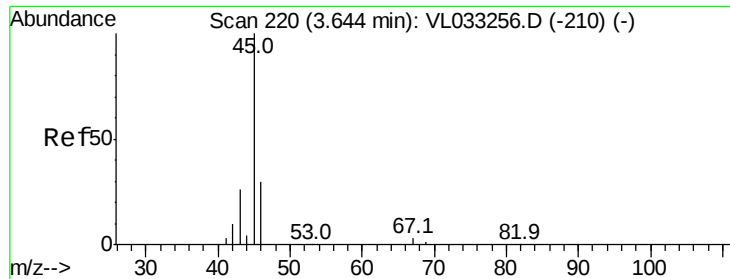
Tgt Ion:101 Resp: 84162
 Ion Ratio Lower Upper
 101 100
 103 59.4 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.301 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion:101 Resp: 30738
 Ion Ratio Lower Upper
 101 100
 151 128.6 57.2 85.8#





#13

Ethanol

Concen: 0.719 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.02 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

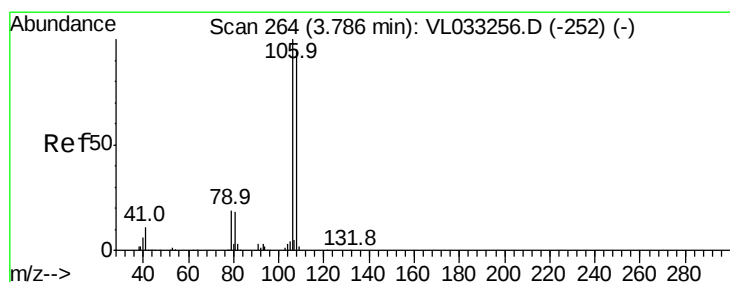
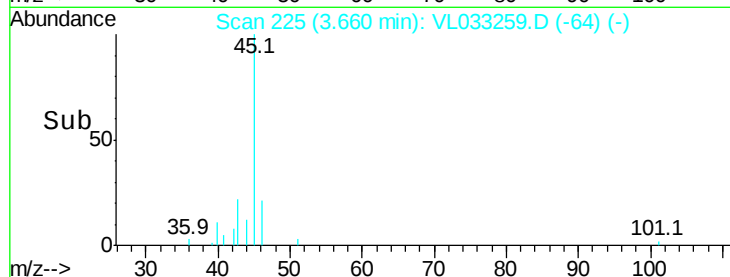
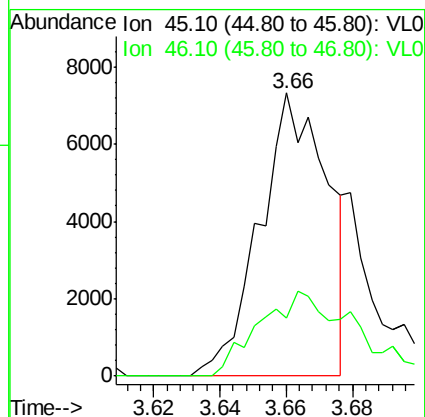
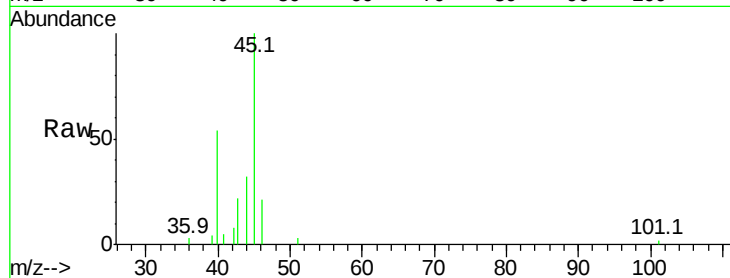
VSTDIC0.5

Tgt Ion: 45 Resp: 10401

Ion Ratio Lower Upper

45 100

46 42.2 14.9 59.7



#14

Bromoethene

Concen: 0.502 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

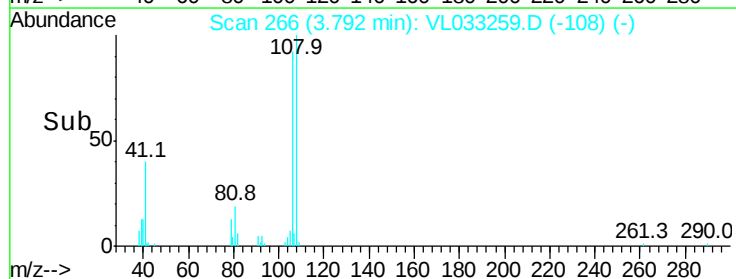
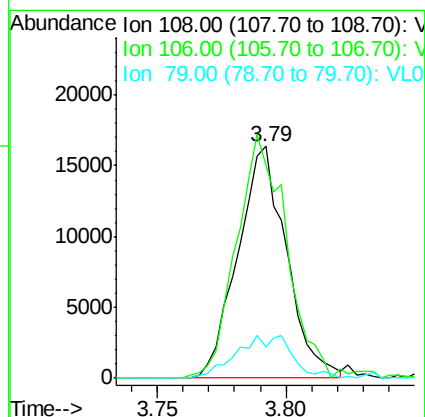
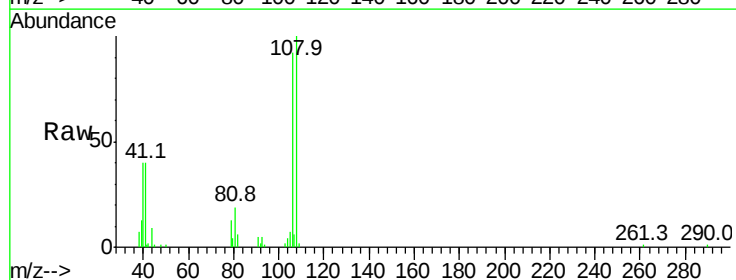
Tgt Ion: 108 Resp: 21563

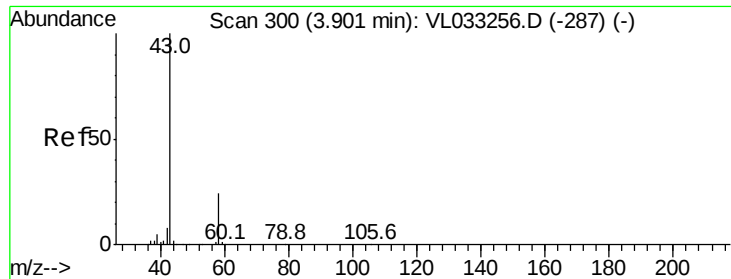
Ion Ratio Lower Upper

108 100

106 110.0 86.9 130.3

79 21.8 15.8 23.6

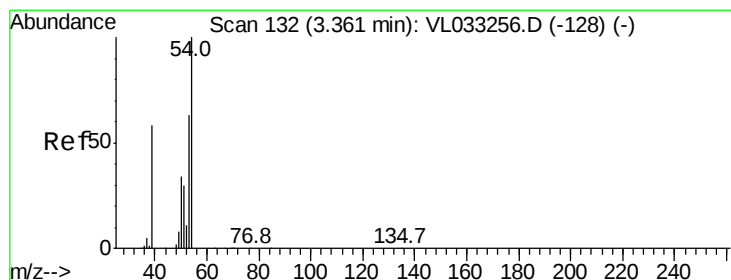
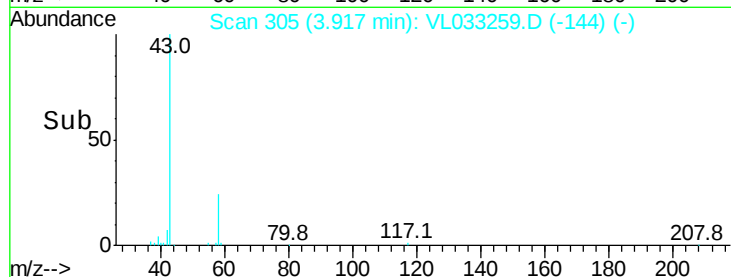
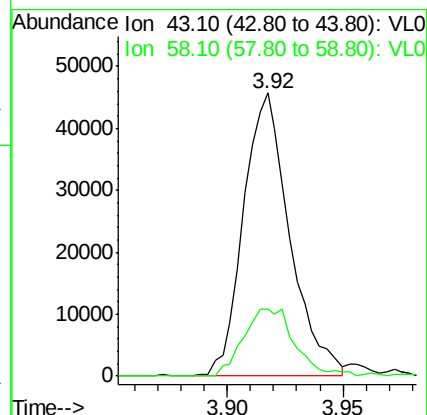
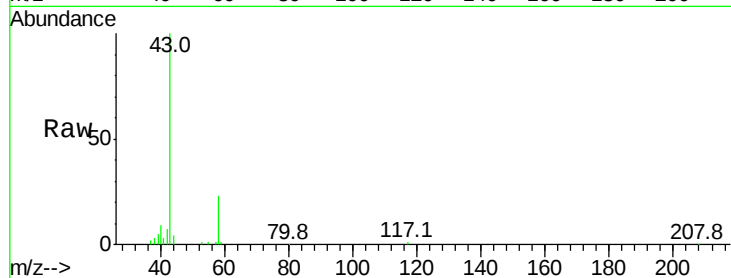




#15
Acetone
Concen: 0.521 ppbv
RT: 3.92 min Scan# 305
Delta R.T. 0.02 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

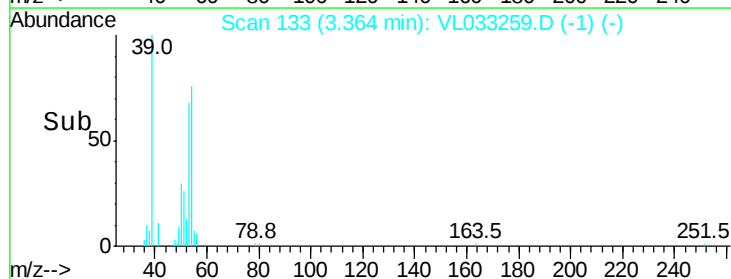
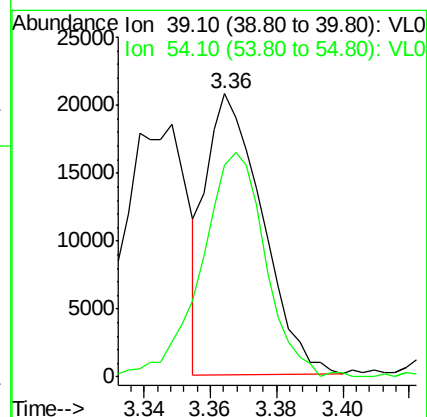
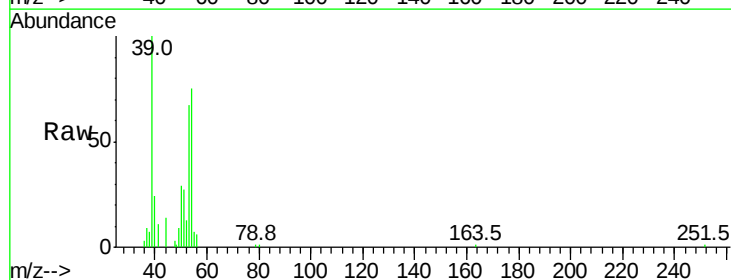
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

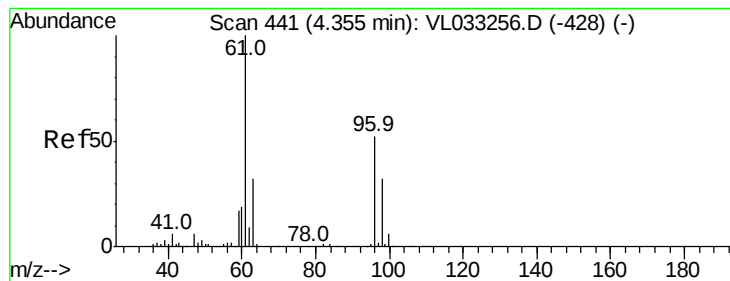
Tgt Ion: 43 Resp: 63587
Ion Ratio Lower Upper
43 100
58 27.1 20.2 30.2



#16
1,3-Butadiene
Concen: 0.498 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 39 Resp: 24277
Ion Ratio Lower Upper
39 100
54 91.3 68.6 103.0





#17

tert-Butyl alcohol

Concen: 0.052 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

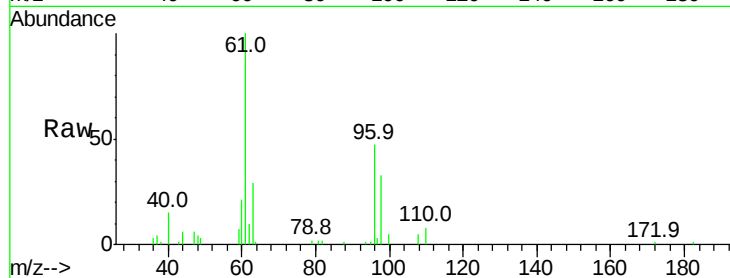
VSTDIC0.5

Tgt Ion: 59 Resp: 1034

Ion Ratio Lower Upper

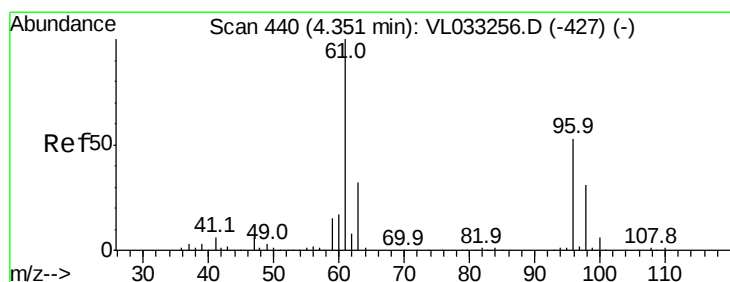
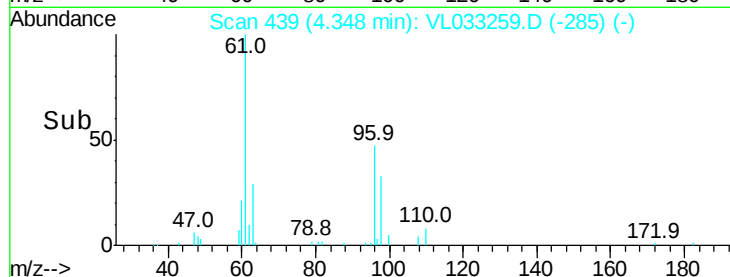
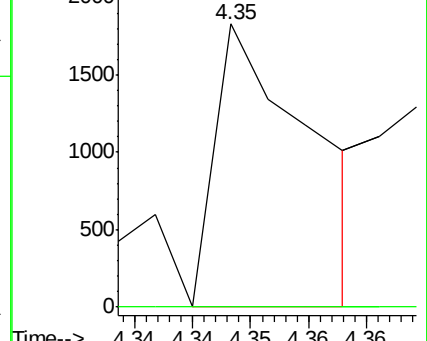
59 100

57 0.0 7.2 10.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.292 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

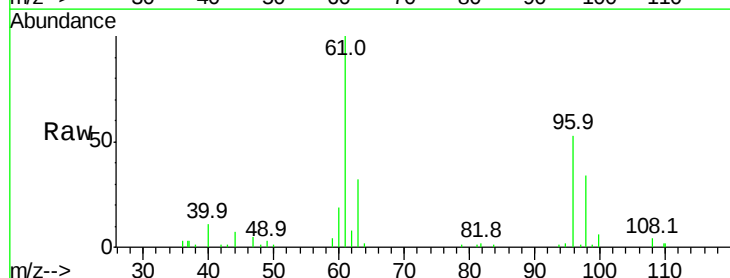
Tgt Ion: 96 Resp: 13250

Ion Ratio Lower Upper

96 100

61 188.6 150.6 226.0

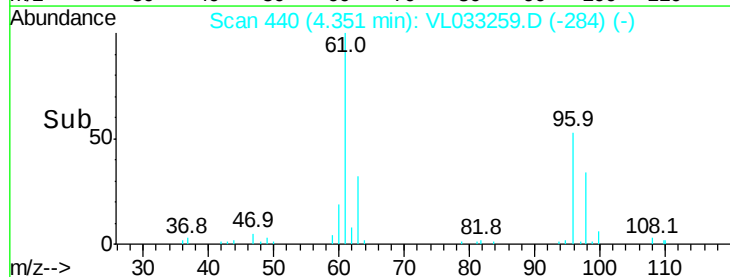
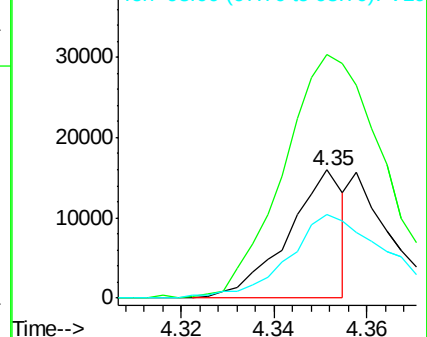
98 62.4 47.0 70.4

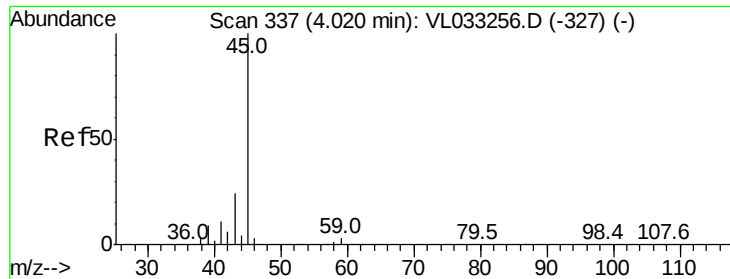


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.374 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

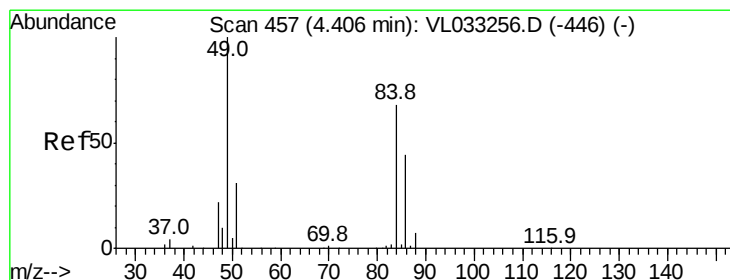
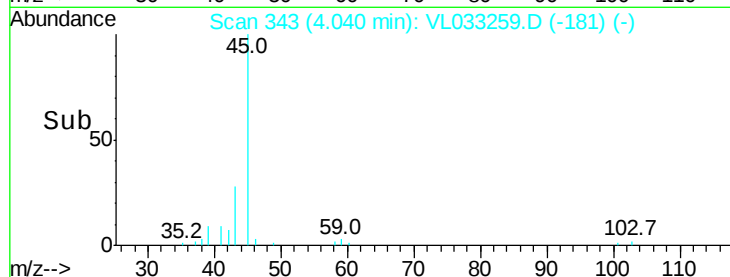
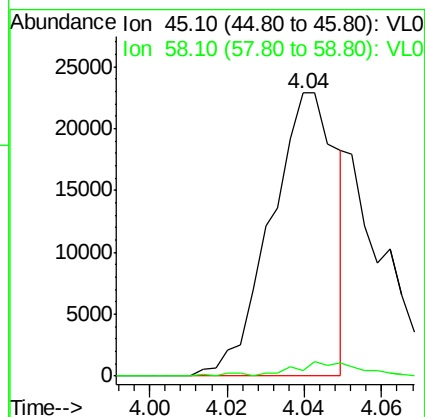
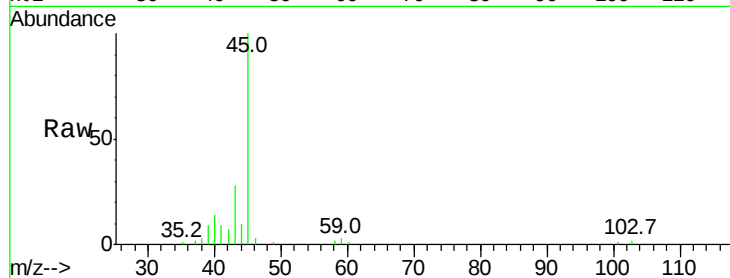
VSTDIC0.5

Tgt Ion: 45 Resp: 27134

Ion Ratio Lower Upper

45 100

58 5.3 1.5 2.3#



#20

Methylene Chloride

Concen: 0.593 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion: 84 Resp: 27414

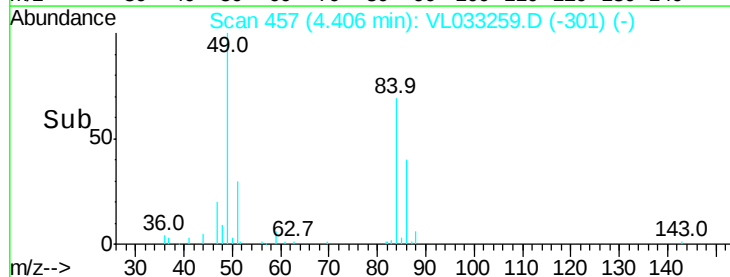
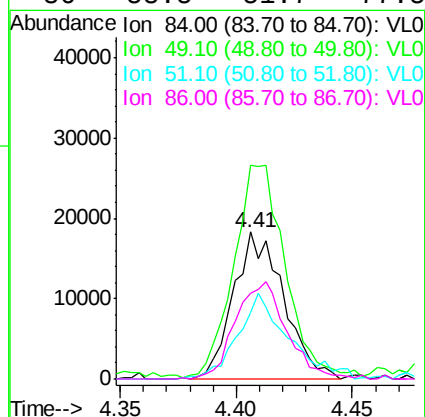
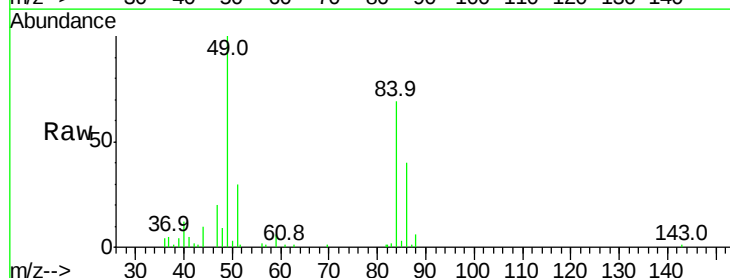
Ion Ratio Lower Upper

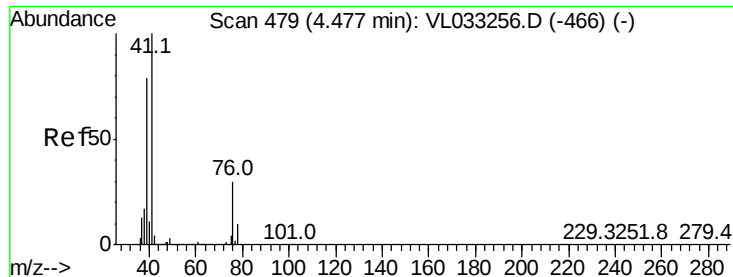
84 100

49 142.6 117.8 176.6

51 43.6 36.9 55.3

86 58.5 51.7 77.5





#21

Allyl Chloride

Concen: 0.484 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

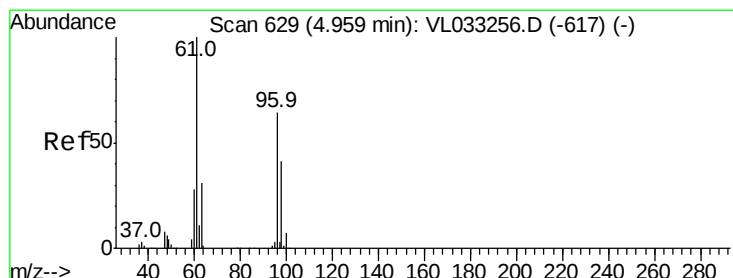
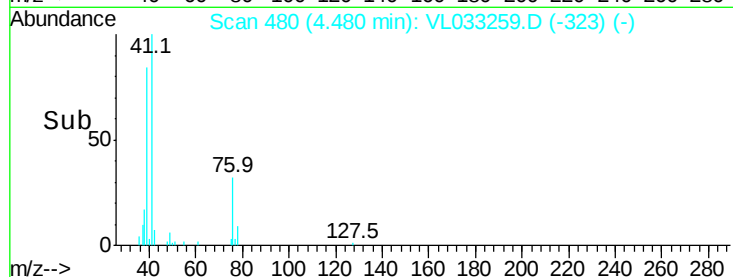
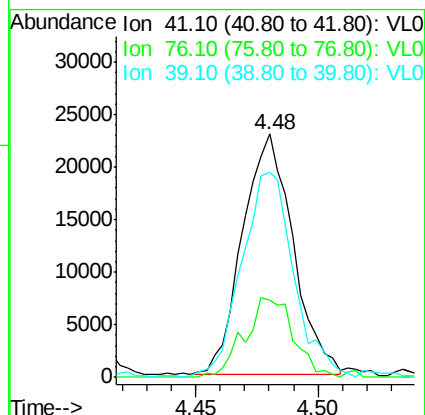
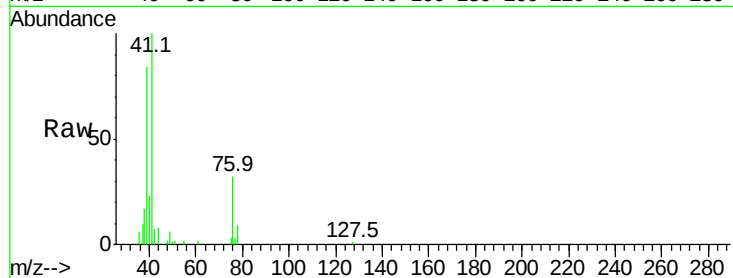
Tgt Ion: 41 Resp: 32985

Ion Ratio Lower Upper

41 100

76 32.5 24.5 36.7

39 89.1 65.3 97.9



#22

trans-1,2-Dichloroethene

Concen: 0.298 ppbv

RT: 4.96 min Scan# 629

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

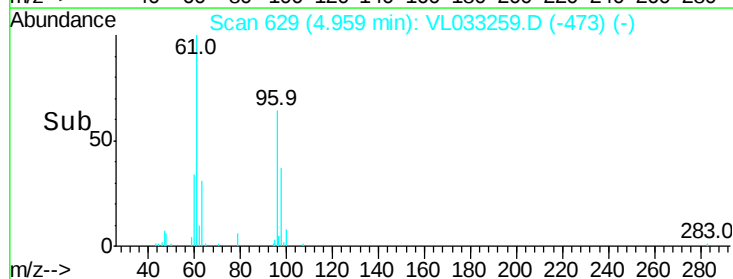
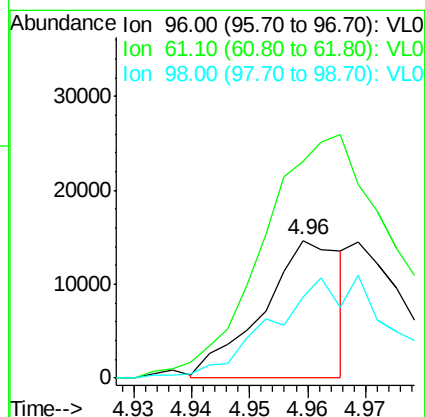
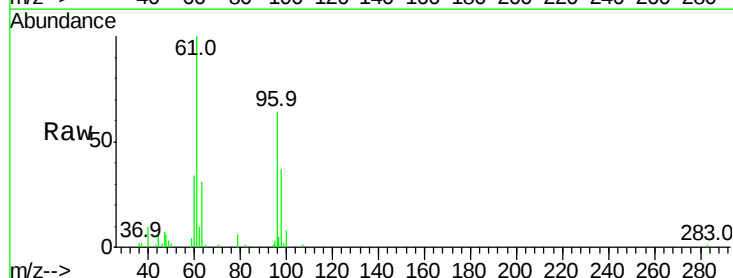
Tgt Ion: 96 Resp: 13822

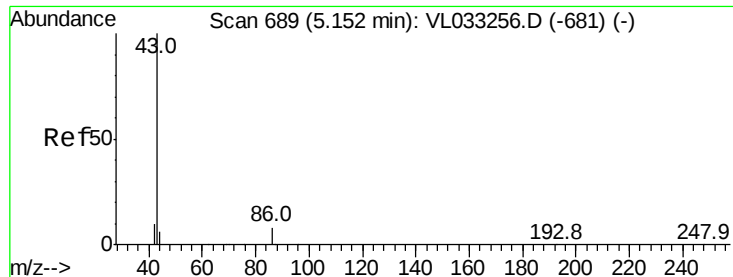
Ion Ratio Lower Upper

96 100

61 137.4 125.7 188.5

98 52.5 52.1 78.1





#23

Vinyl Acetate

Concen: 0.447 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

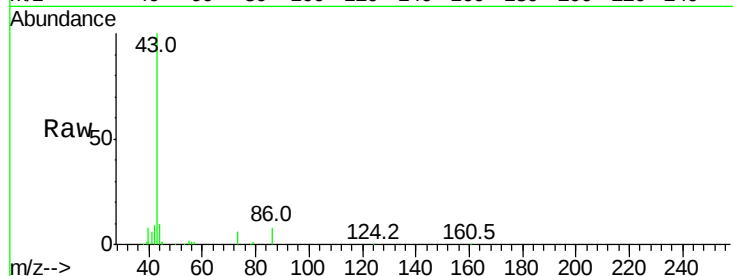
ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 80458

Ion Ratio Lower Upper

43	100		
86	8.4	5.6	8.4
42	8.9	8.1	12.1
44	8.4	4.3	6.5#

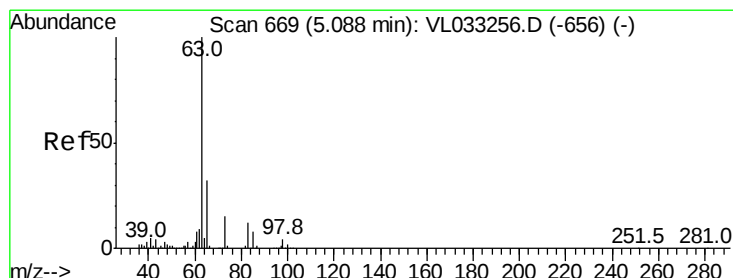
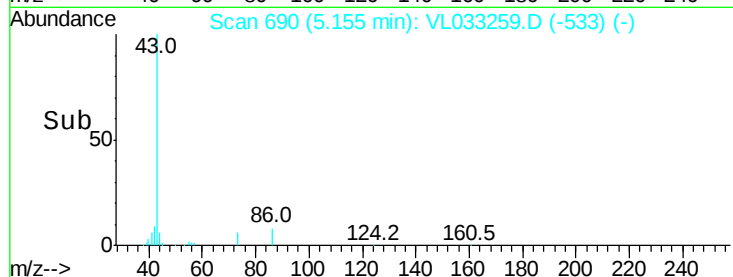
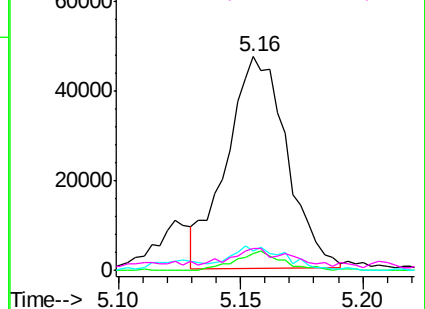


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 0.512 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

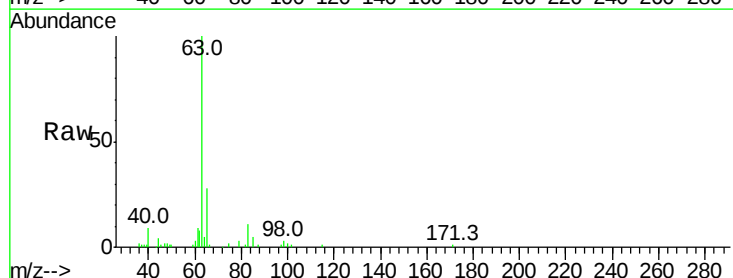
Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion: 63 Resp: 65771

Ion Ratio Lower Upper

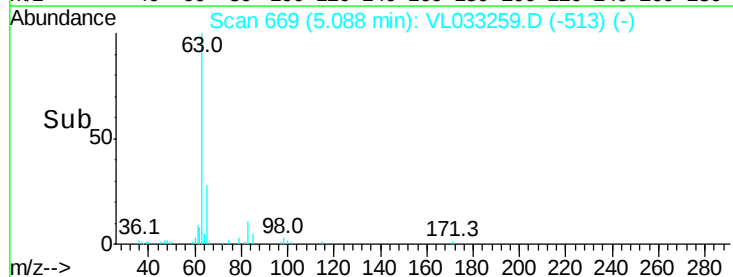
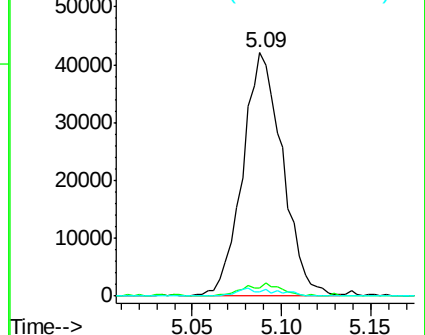
63	100		
98	3.5	2.1	6.2
100	1.8	1.3	3.8

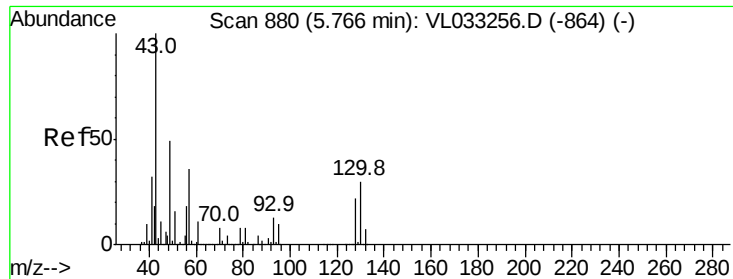


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

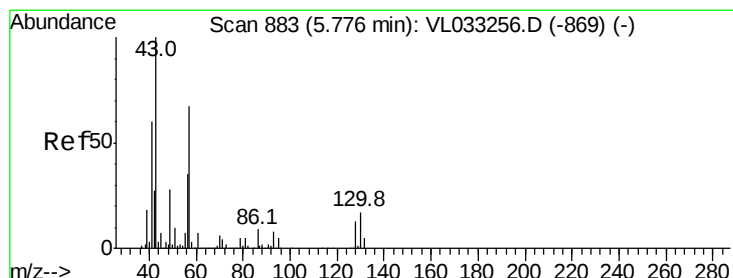
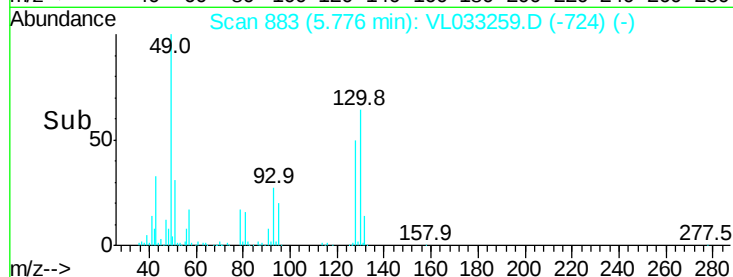
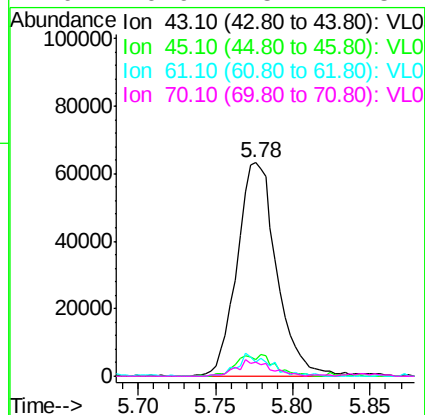
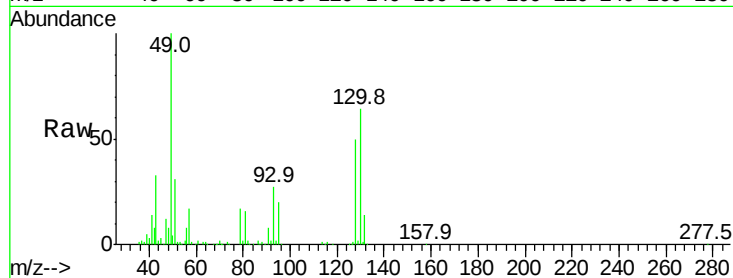




#25
Ethyl Acetate
Concen: 0.502 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

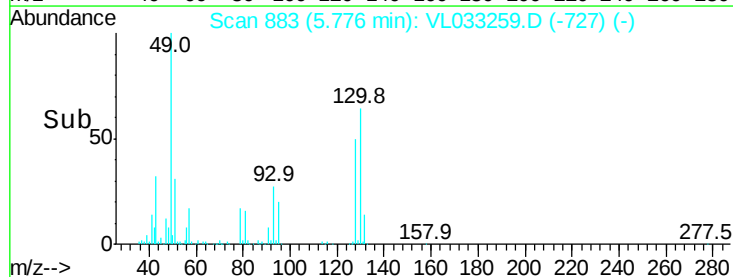
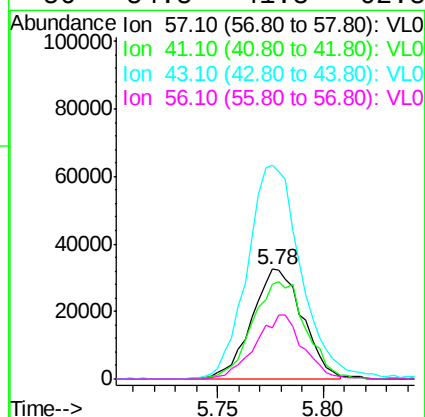
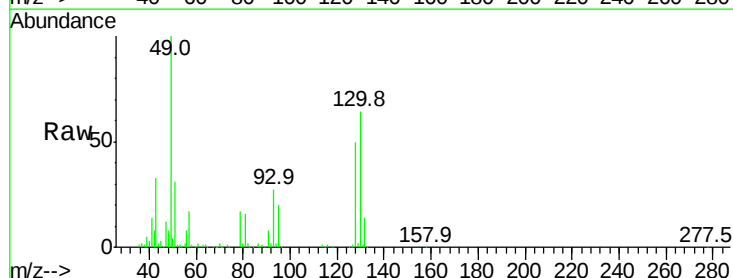
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

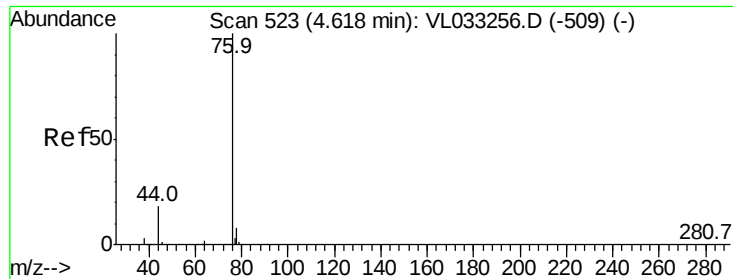
Tgt Ion:	43	Resp:	112368
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.8
61	8.8	7.4	11.0
70	6.9	5.4	8.2



#26
Hexane
Concen: 0.524 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion:	57	Resp:	54789
Ion	Ratio	Lower	Upper
57	100		
41	92.4	72.2	108.4
43	207.7	179.0	268.4
56	54.5	41.8	62.8





#27

Carbon Disulfide

Concen: 0.467 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

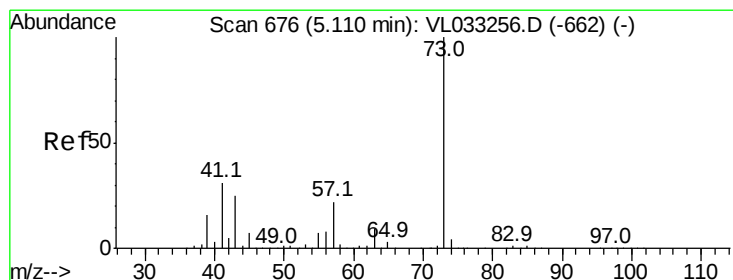
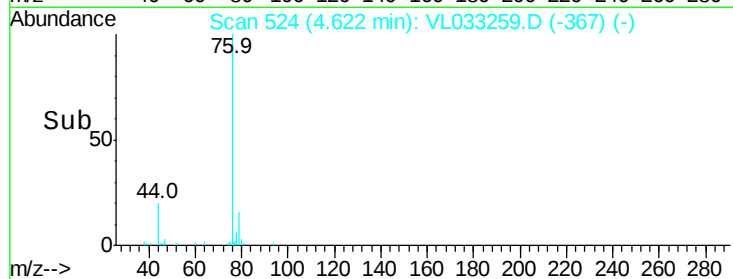
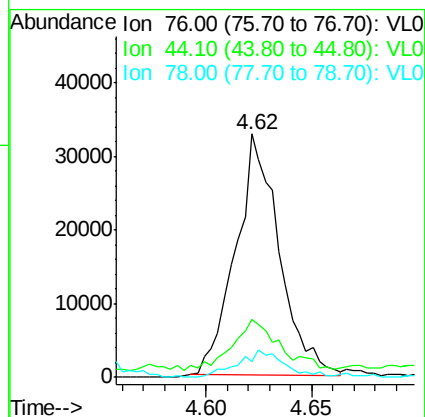
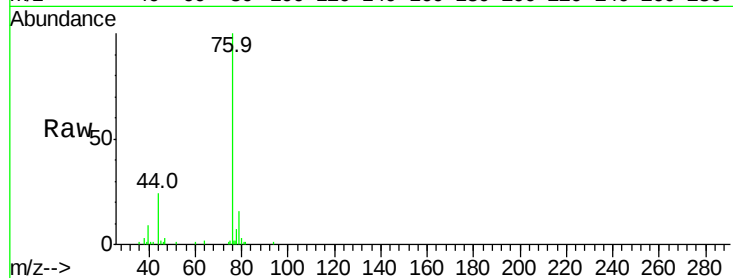
Tgt Ion: 76 Resp: 47133

Ion Ratio Lower Upper

76 100

44 25.2 14.8 22.2#

78 12.6 7.2 10.8#



#28

Methyl tert-Butyl Ether

Concen: 0.458 ppbv

RT: 5.13 min Scan# 681

Delta R.T. 0.02 min

Lab File: VL033259.D

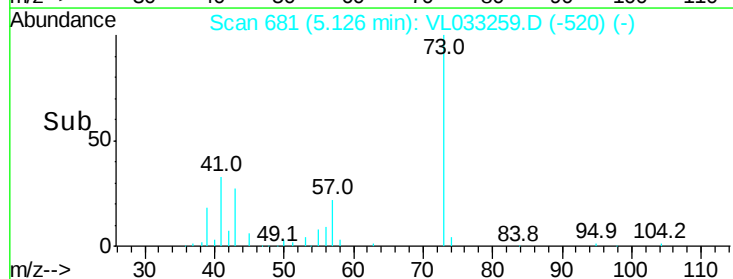
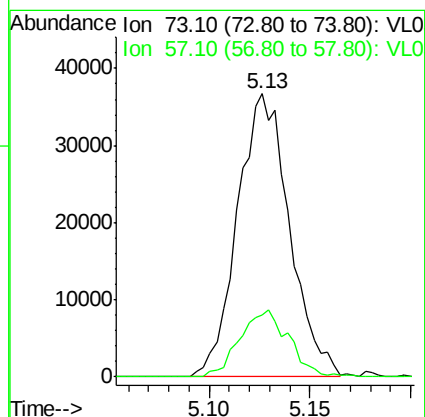
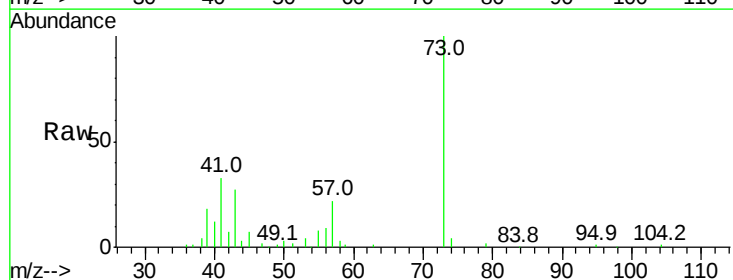
Acq: 8 Mar 2019 14:41

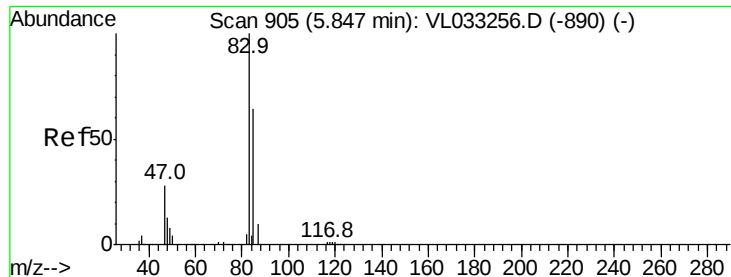
Tgt Ion: 73 Resp: 66141

Ion Ratio Lower Upper

73 100

57 22.2 17.7 26.5

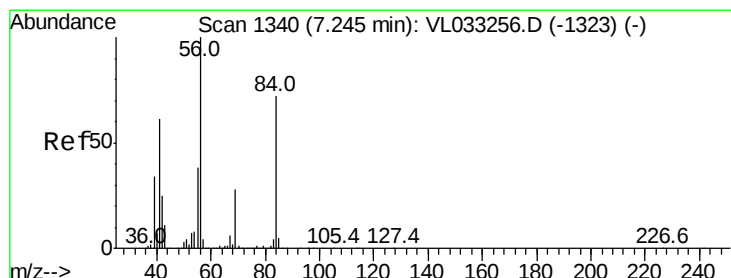
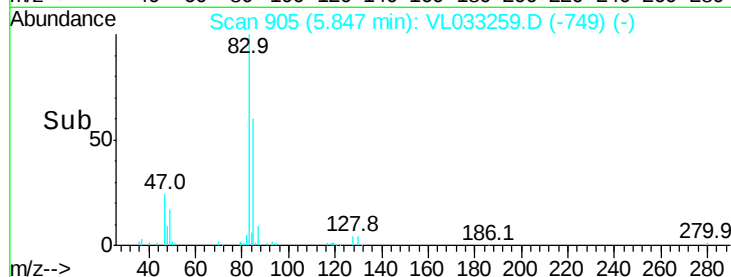
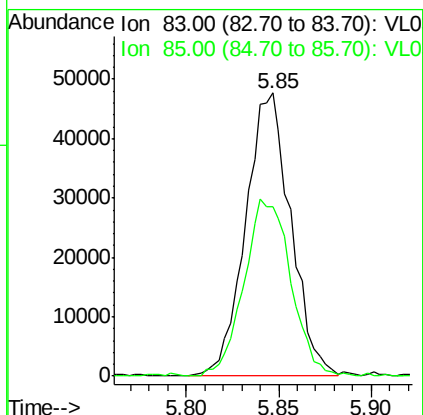
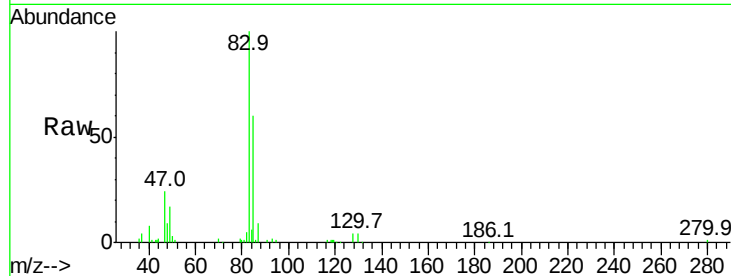




#29
Chloroform
Concen: 0.497 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

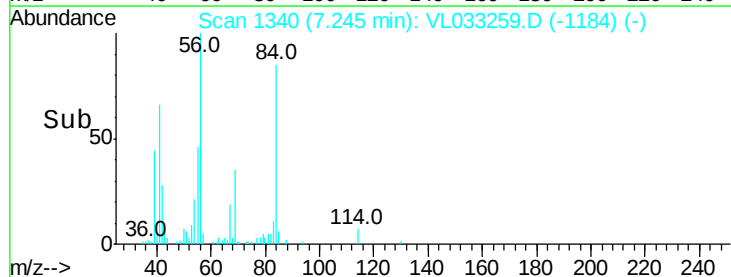
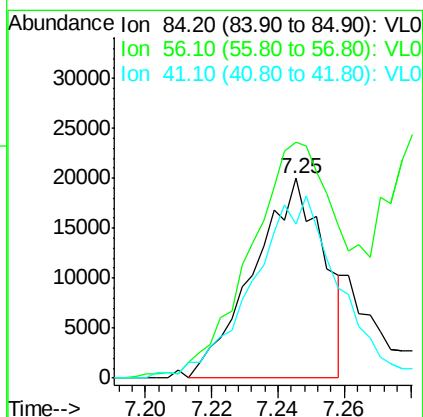
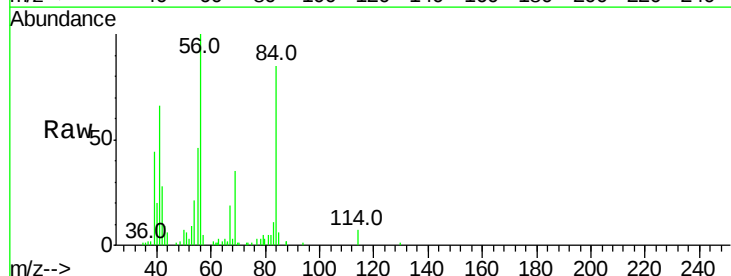
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

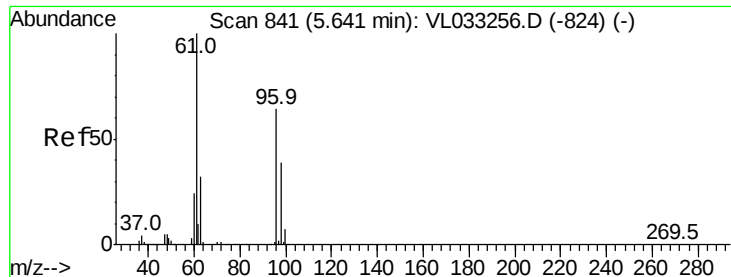
Tgt Ion: 83 Resp: 80901
Ion Ratio Lower Upper
83 100
85 59.8 51.0 76.6



#30
Cyclohexane
Concen: 0.378 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 84 Resp: 29580
Ion Ratio Lower Upper
84 100
56 151.4 113.4 170.2
41 113.1 70.2 105.4#





#31

cis-1,2-Dichloroethene

Concen: 0.459 ppbv

RT: 5.64 min Scan# 841

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

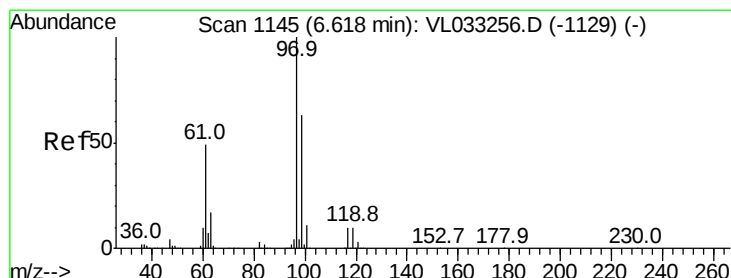
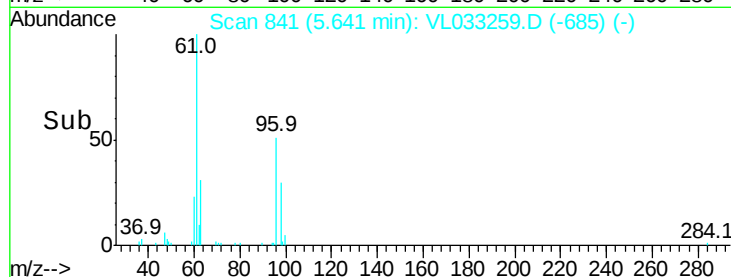
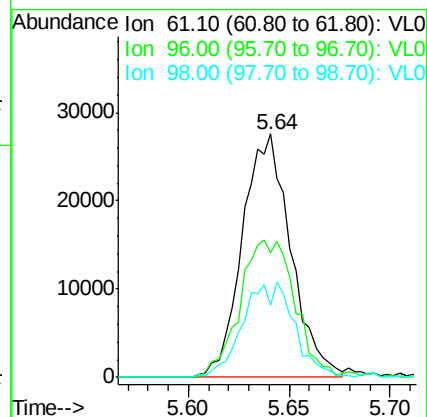
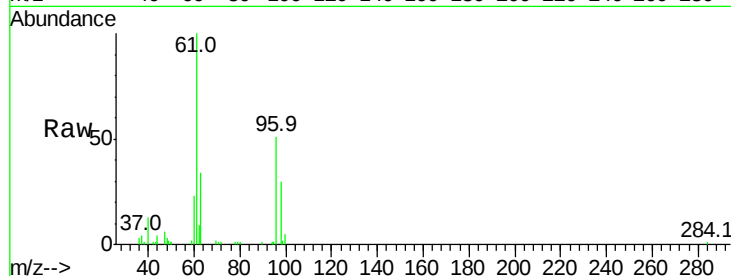
Tgt Ion: 61 Resp: 46409

Ion Ratio Lower Upper

61 100

96 51.1 51.2 76.8#

98 29.7 30.8 46.2#



#32

1,1,1-Trichloroethane

Concen: 0.475 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

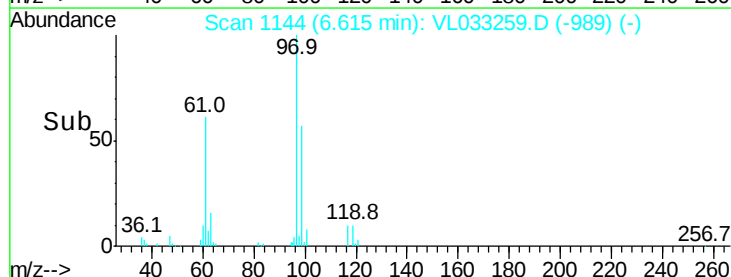
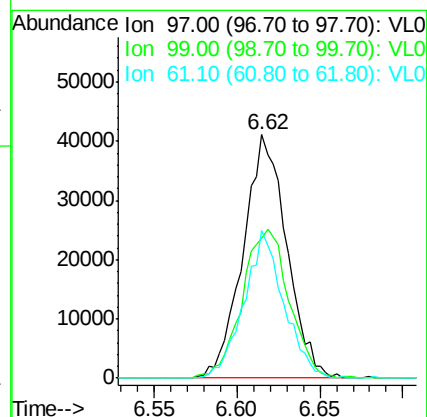
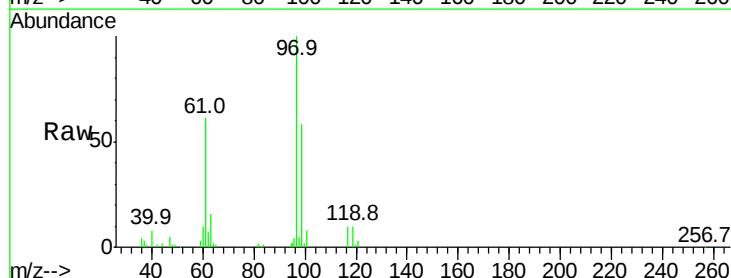
Tgt Ion: 97 Resp: 74893

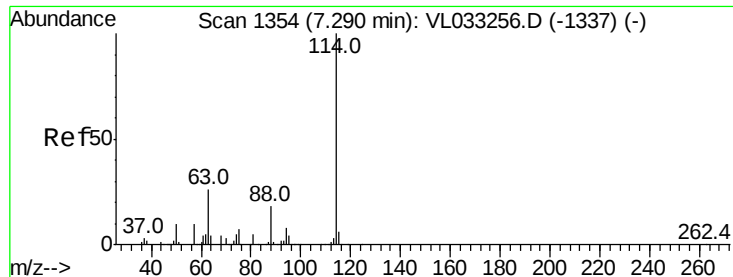
Ion Ratio Lower Upper

97 100

99 65.9 51.6 77.4

61 55.3 40.8 61.2

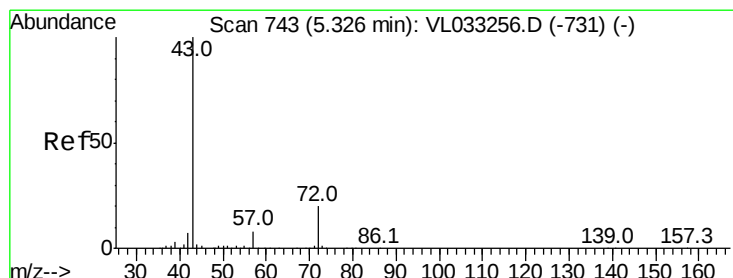
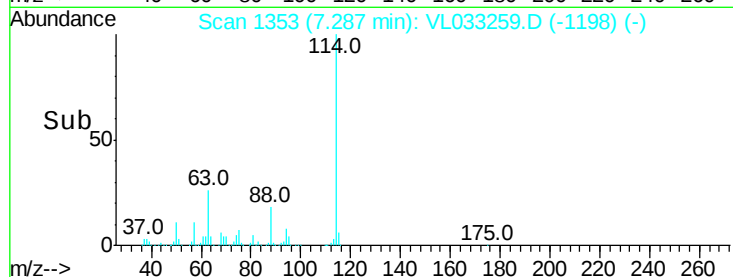
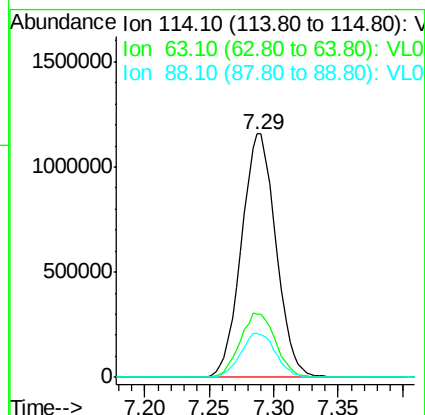
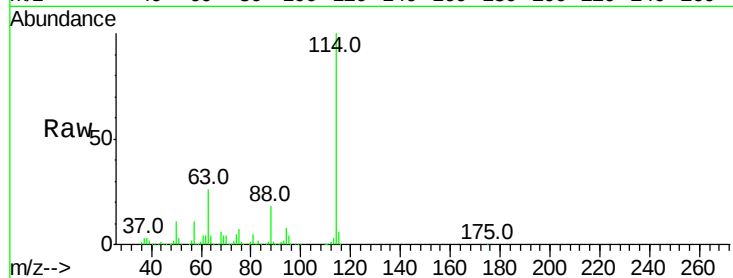




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

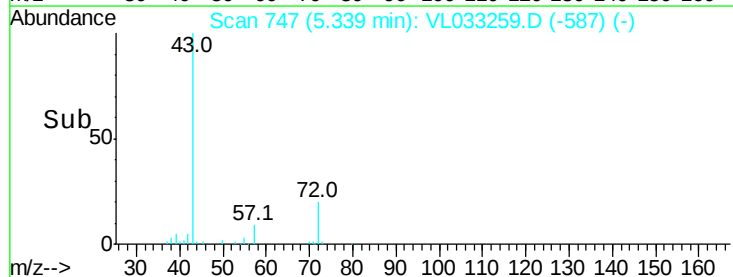
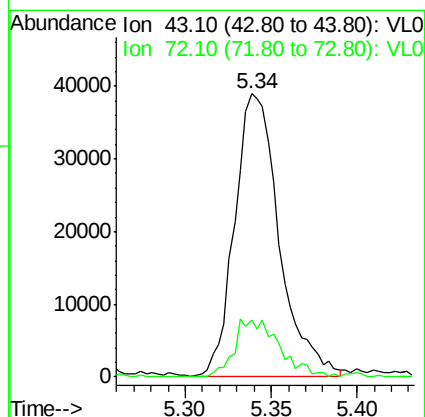
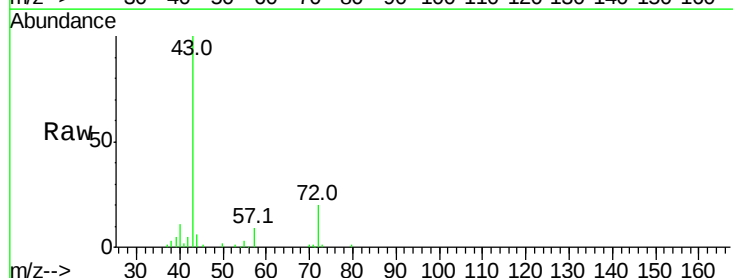
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

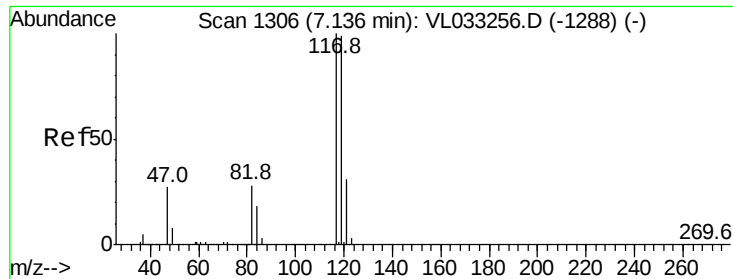
Tgt Ion:114 Resp: 2160536
 Ion Ratio Lower Upper
 114 100
 63 27.1 22.2 33.2
 88 18.4 14.6 22.0



#34
 2-Butanone
 Concen: 0.469 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion: 43 Resp: 70234
 Ion Ratio Lower Upper
 43 100
 72 20.3 16.9 25.3

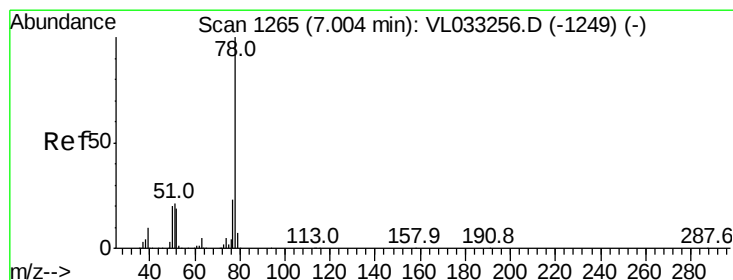
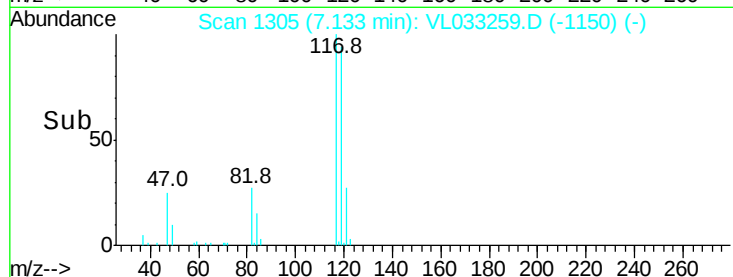
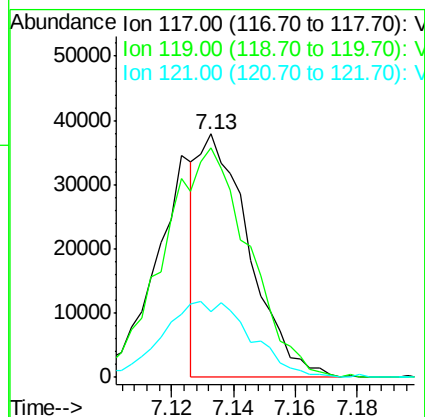
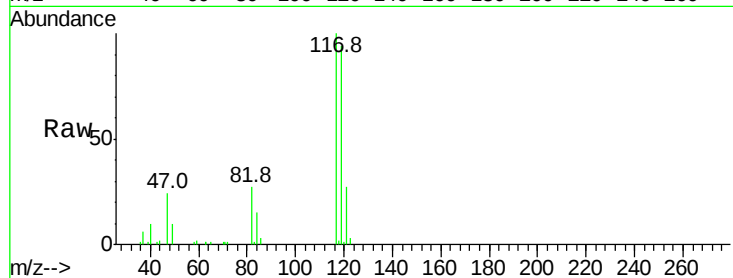




#35
Carbon Tetrachloride
Concen: 0.265 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

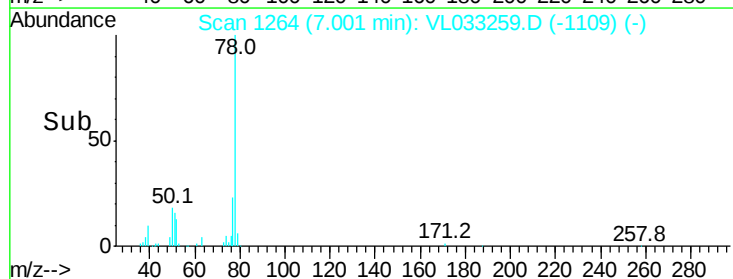
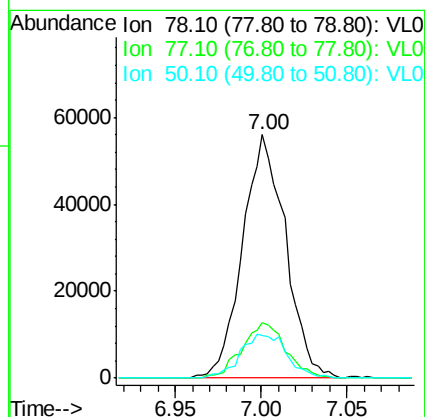
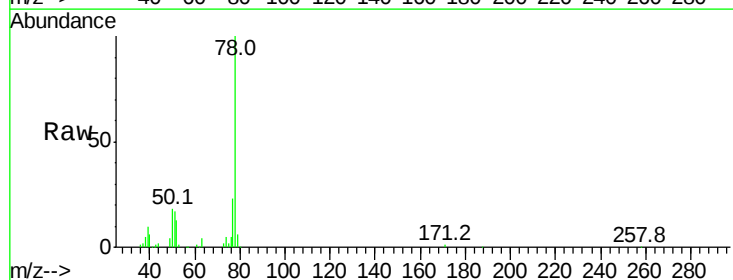
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

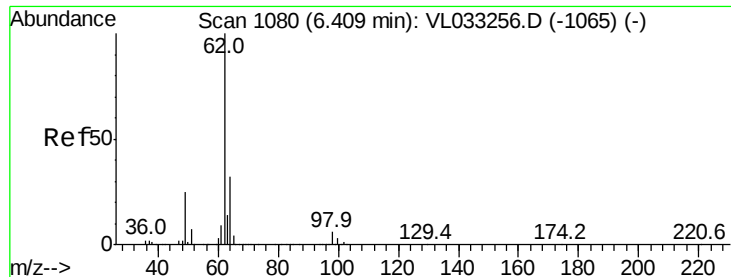
Tgt Ion:117 Resp: 43239
Ion Ratio Lower Upper
117 100
119 92.4 79.0 118.6
121 26.7 24.7 37.1



#36
Benzene
Concen: 0.476 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 78 Resp: 96611
Ion Ratio Lower Upper
78 100
77 22.6 18.2 27.2
50 17.3 16.2 24.2

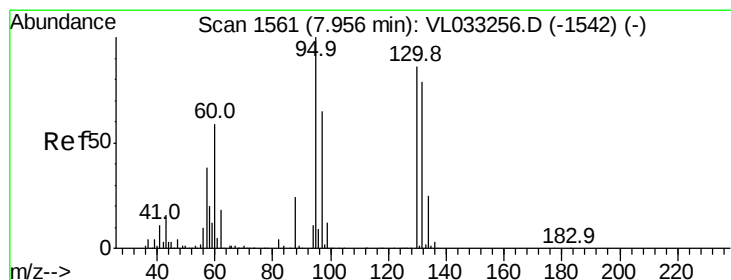
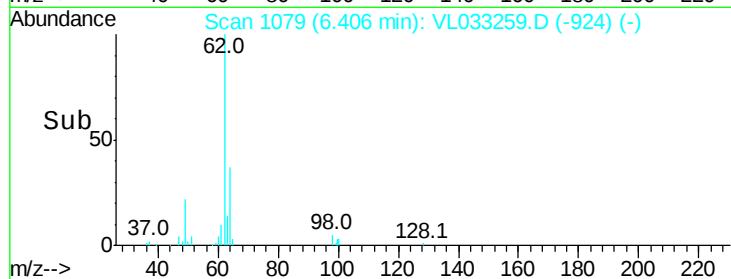
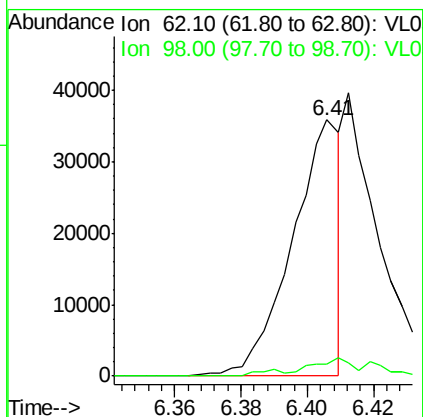
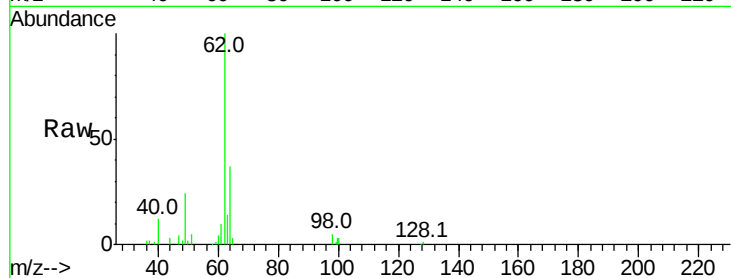




#37
 1,2-Dichloroethane
 Concen: 0.287 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

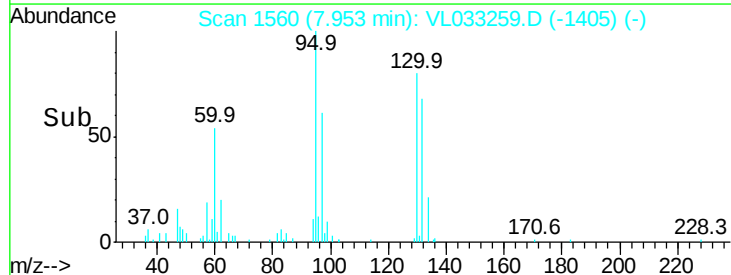
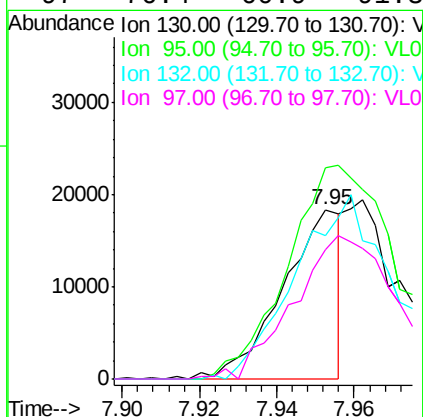
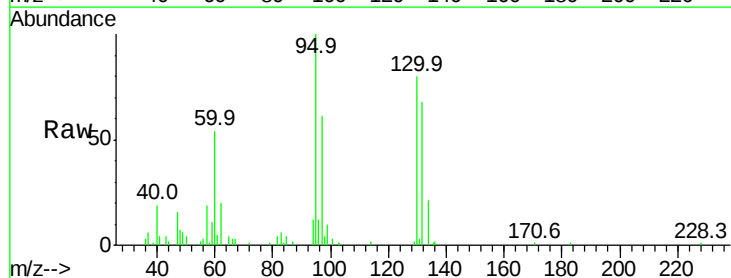
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

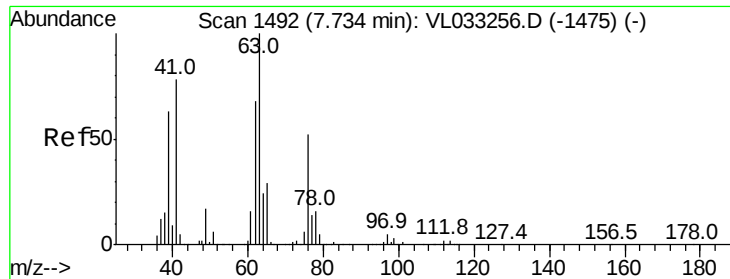
Tgt Ion: 62 Resp: 36181
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.5 6.7#



#38
 Trichloroethene
 Concen: 0.249 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion:130 Resp: 19106
 Ion Ratio Lower Upper
 130 100
 95 124.9 93.4 140.0
 132 84.8 74.0 111.0
 97 76.4 60.9 91.3





#39

1,2-Dichloropropane

Concen: 0.459 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

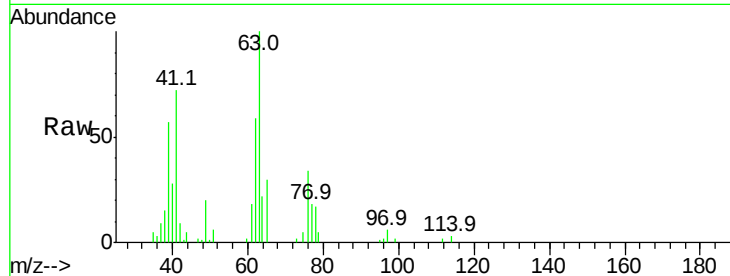
Tgt Ion: 63 Resp: 36347

Ion Ratio Lower Upper

63 100

41 71.7 62.6 94.0

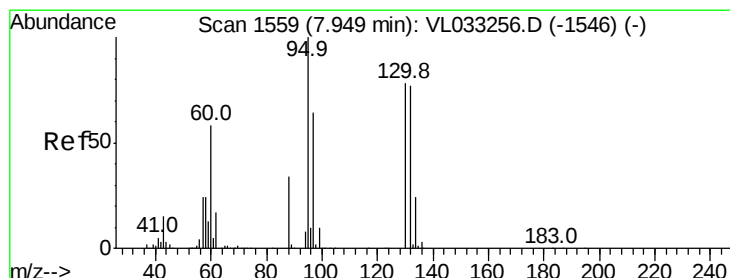
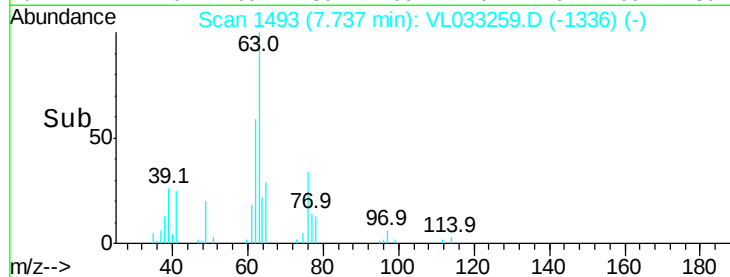
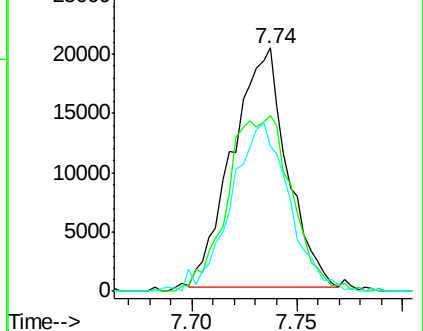
62 57.9 54.6 81.8



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: 0.182 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. 0.04 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion: 88 Resp: 5347

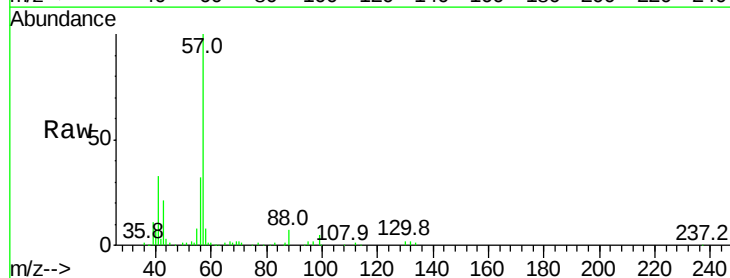
Ion Ratio Lower Upper

88 100

58 0.0 108.4 162.6#

43 0.0 232.3 348.5#

57 0.0 1007.8 1511.8#

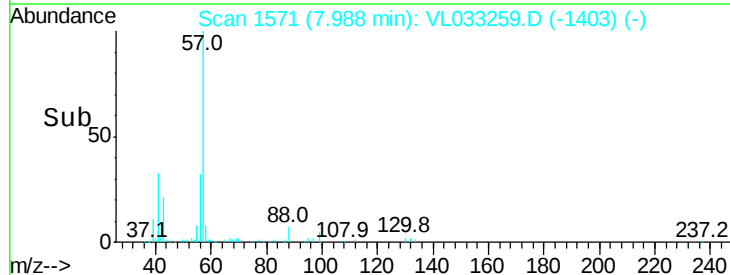
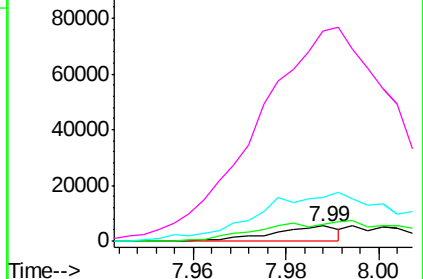


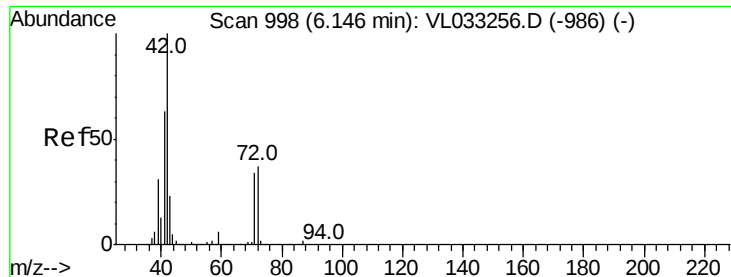
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

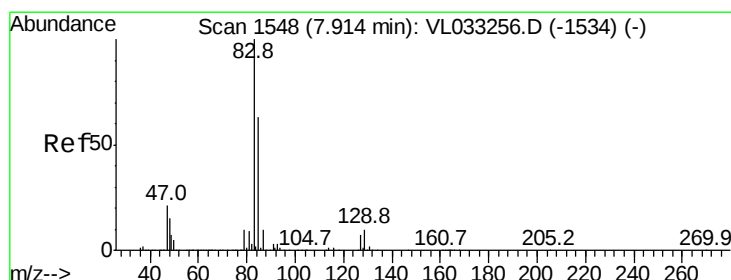
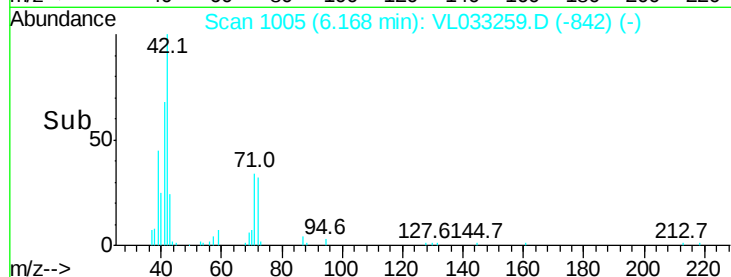
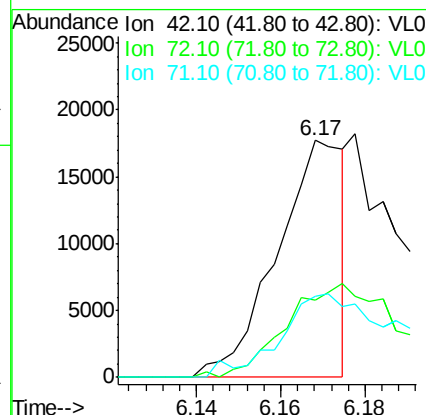
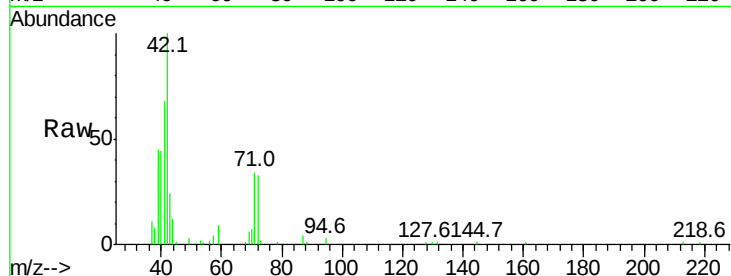




#41
Tetrahydrofuran
Concen: 0.237 ppbv
RT: 6.17 min Scan# 1005
Delta R.T. 0.02 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

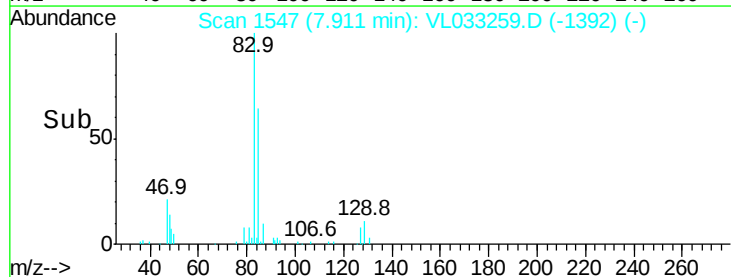
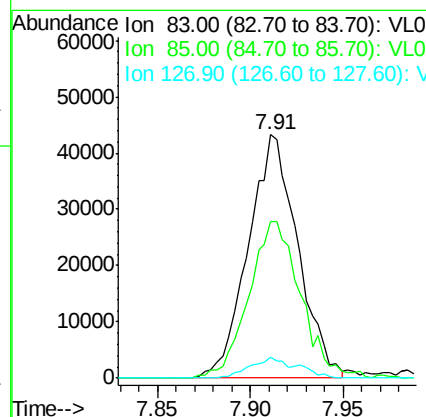
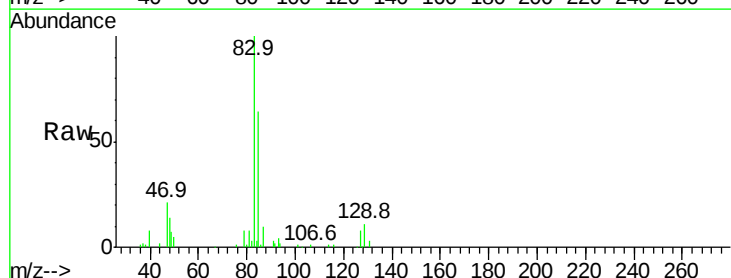
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

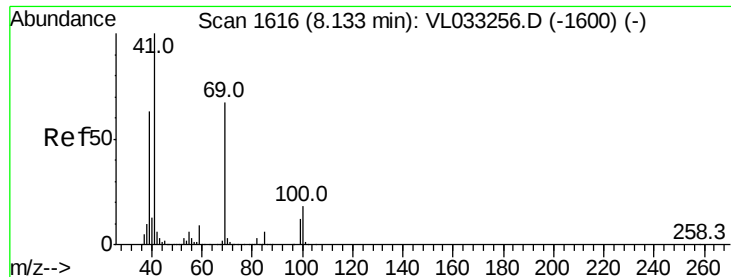
Tgt Ion: 42 Resp: 19474
Ion Ratio Lower Upper
42 100
72 0.0 30.2 45.2#
71 0.0 29.0 43.6#



#42
Bromodichloromethane
Concen: 0.448 ppbv
RT: 7.91 min Scan# 1547
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 83 Resp: 79995
Ion Ratio Lower Upper
83 100
85 64.2 50.1 75.1
127 8.6 5.9 8.9

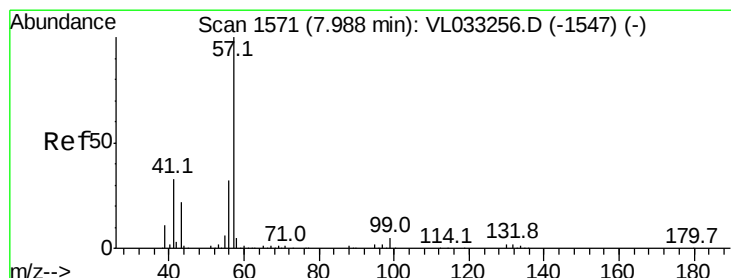
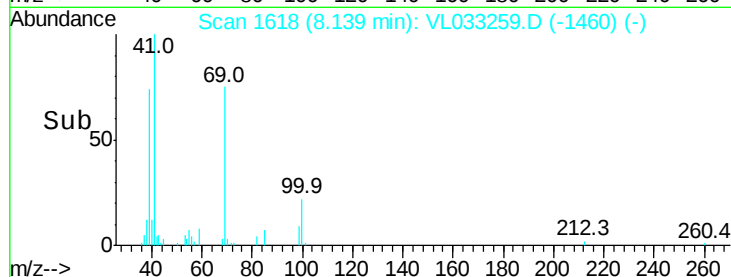
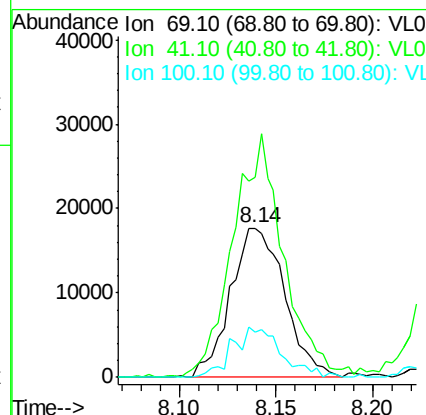
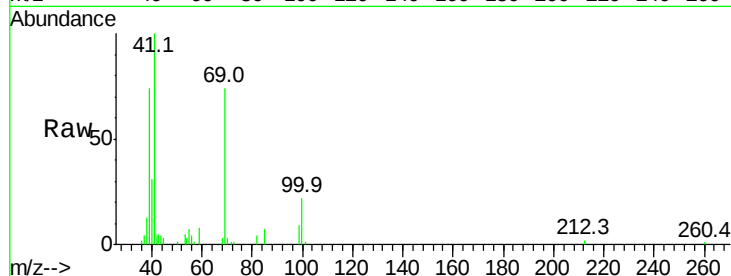




#43
Methyl Methacrylate
Concen: 0.419 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.01 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

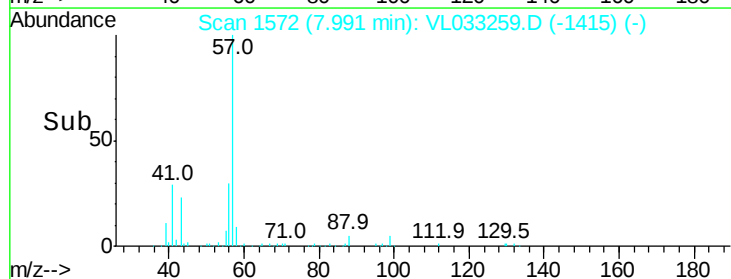
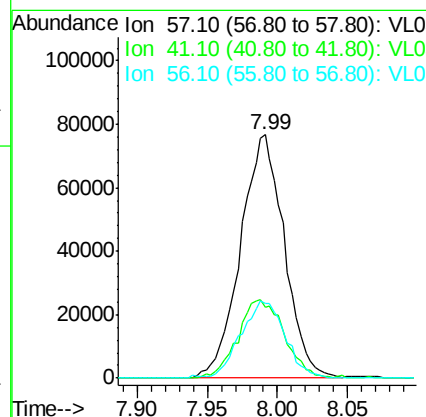
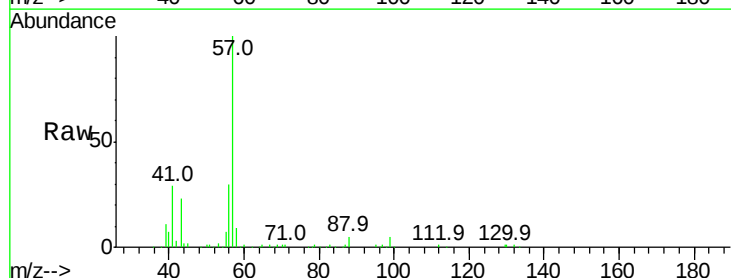
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

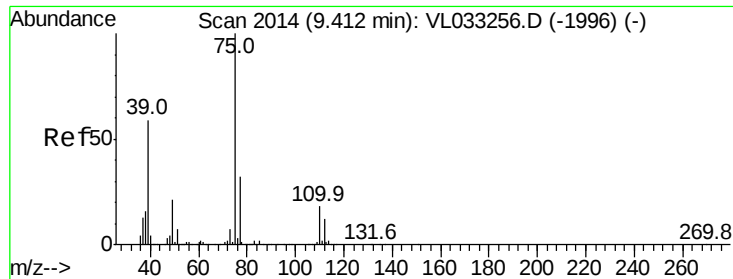
Tgt Ion: 69 Resp: 34407
Ion Ratio Lower Upper
69 100
41 154.5 120.3 180.5
100 30.6 23.5 35.3



#44
2,2,4-Trimethylpentane
Concen: 0.464 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 57 Resp: 166440
Ion Ratio Lower Upper
57 100
41 34.3 26.4 39.6
56 32.1 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 0.378 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

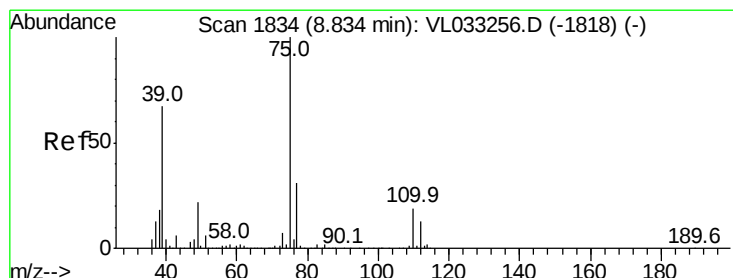
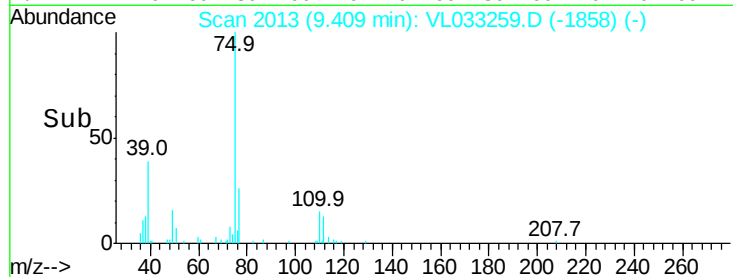
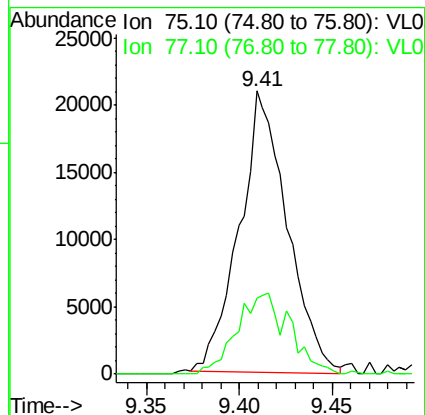
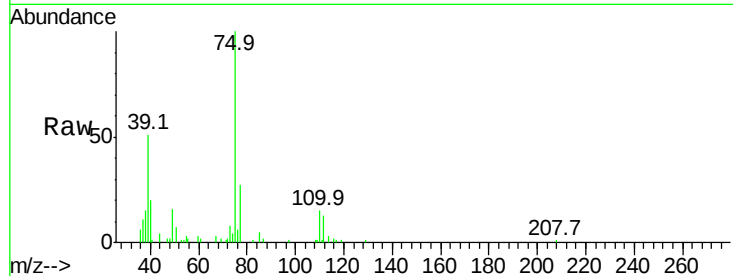
VSTDIC0.5

Tgt Ion: 75 Resp: 37541

Ion Ratio Lower Upper

75 100

77 26.8 25.4 38.0



#46

cis-1,3-Dichloropropene

Concen: 0.391 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

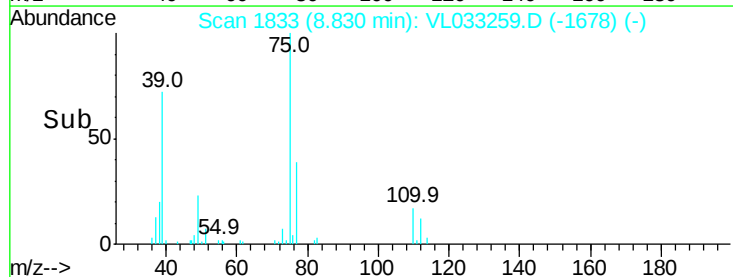
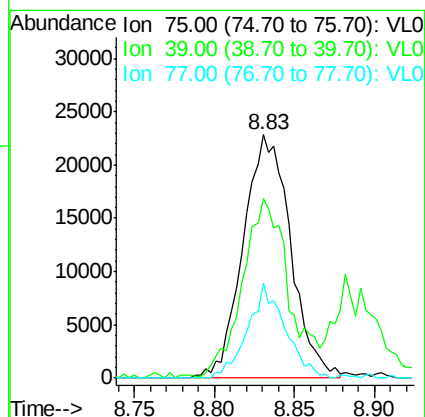
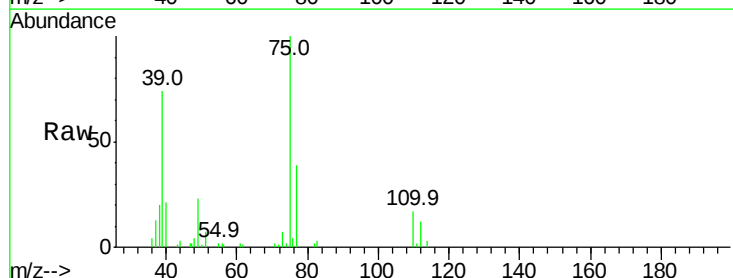
Tgt Ion: 75 Resp: 46342

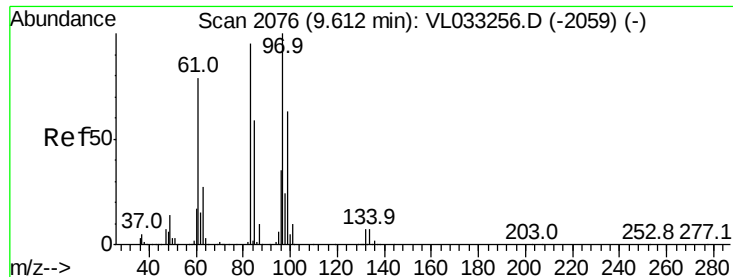
Ion Ratio Lower Upper

75 100

39 72.5 53.8 80.6

77 38.9 25.0 37.6#





#47

1,1,2-Trichloroethane

Concen: 0.472 ppbv

RT: 9.61 min Scan# 2075

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 40226

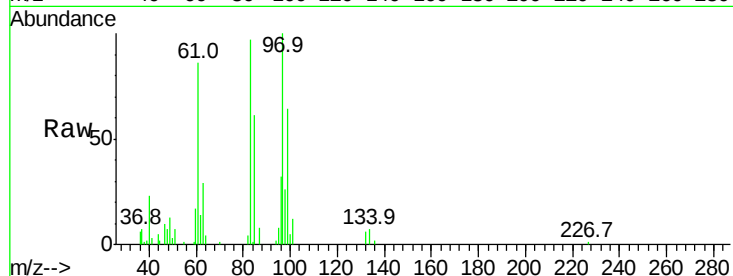
Ion Ratio Lower Upper

97 100

83 95.4 75.8 113.8

85 59.2 47.5 71.3

99 62.2 50.2 75.2

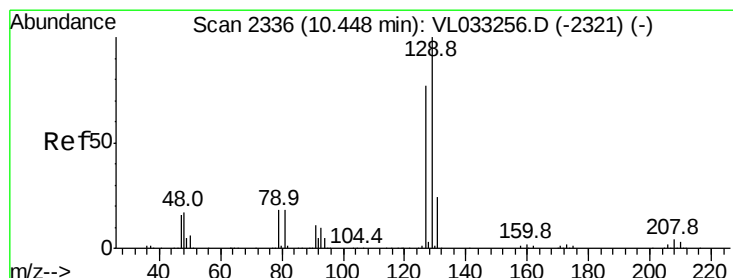
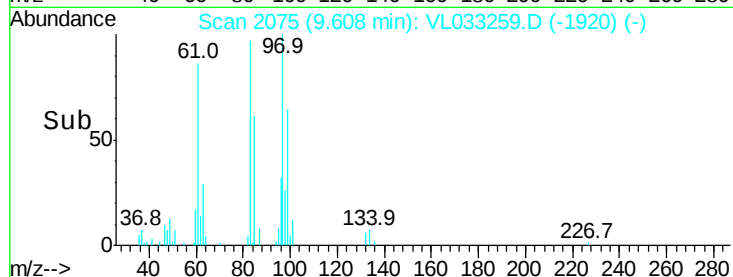
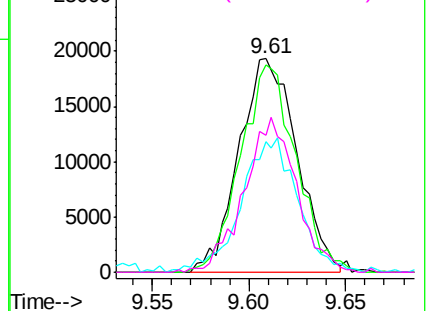


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.203 ppbv

RT: 10.44 min Scan# 2334

Delta R.T. -0.01 min

Lab File: VL033259.D

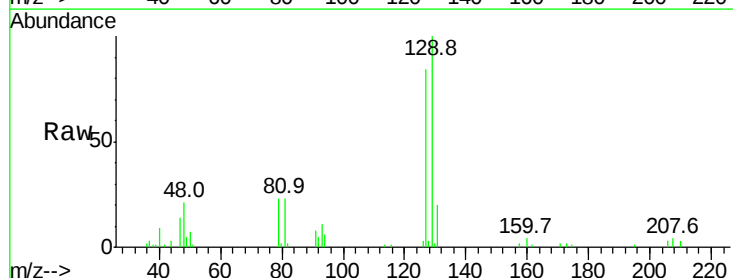
Acq: 8 Mar 2019 14:41

Tgt Ion: 129 Resp: 28055

Ion Ratio Lower Upper

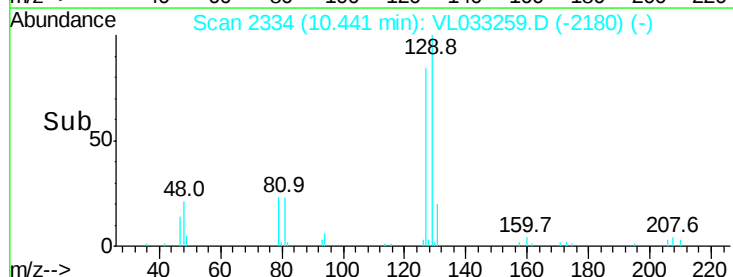
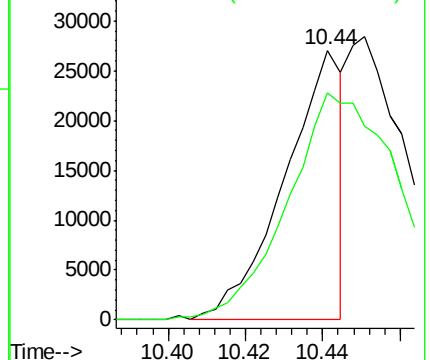
129 100

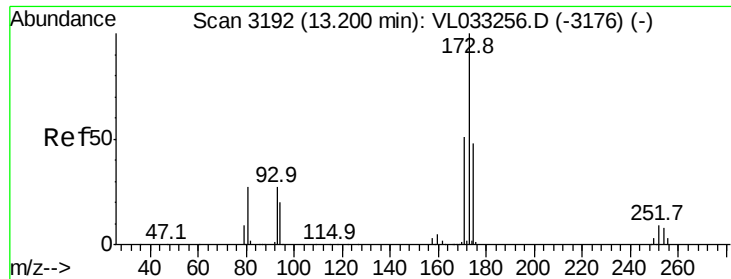
127 166.4 39.4 118.2#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.536 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

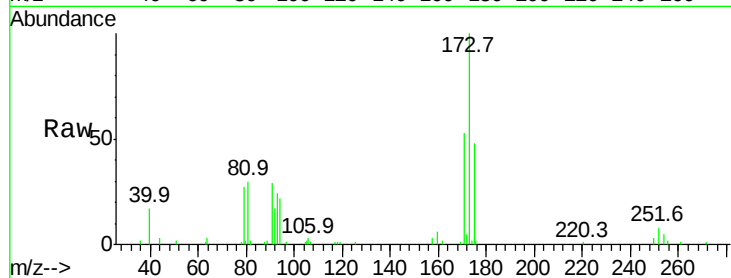
Tgt Ion:173 Resp: 59078

Ion Ratio Lower Upper

173 100

175 49.5 38.8 58.2

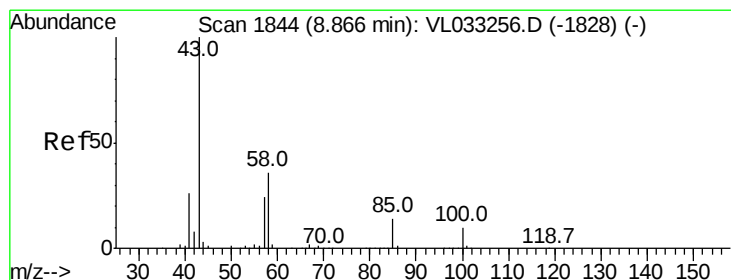
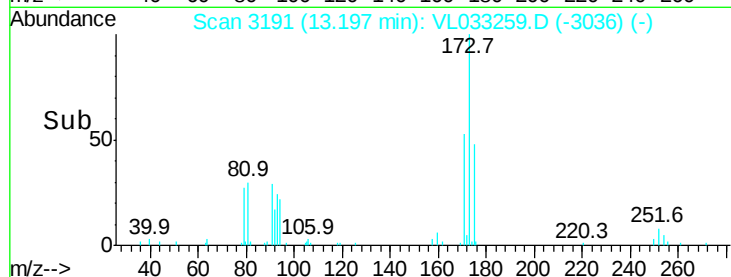
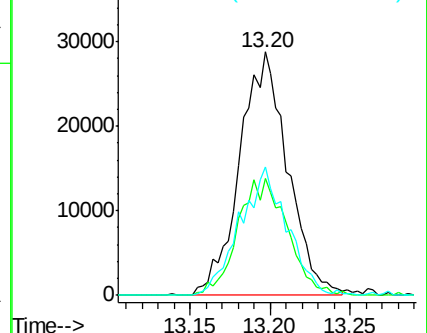
171 51.9 41.5 62.3



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.425 ppbv

RT: 8.89 min Scan# 1851

Delta R.T. 0.02 min

Lab File: VL033259.D

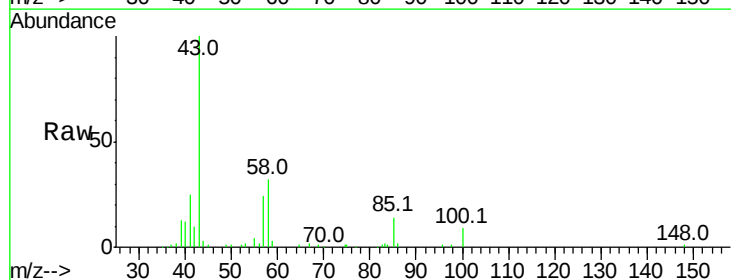
Acq: 8 Mar 2019 14:41

Tgt Ion: 43 Resp: 94170

Ion Ratio Lower Upper

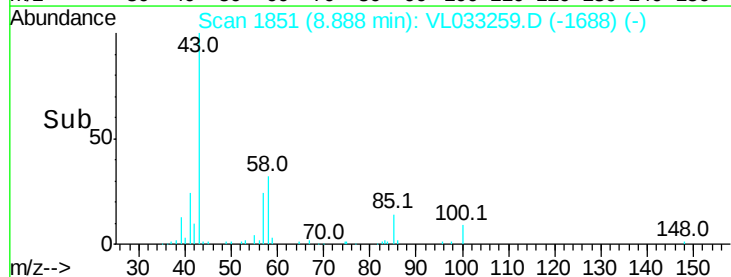
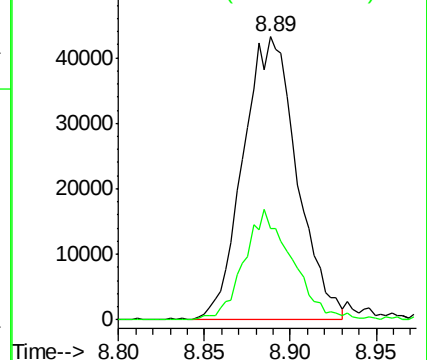
43 100

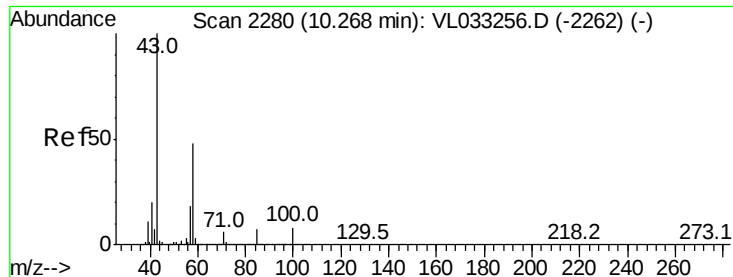
58 35.3 28.1 42.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

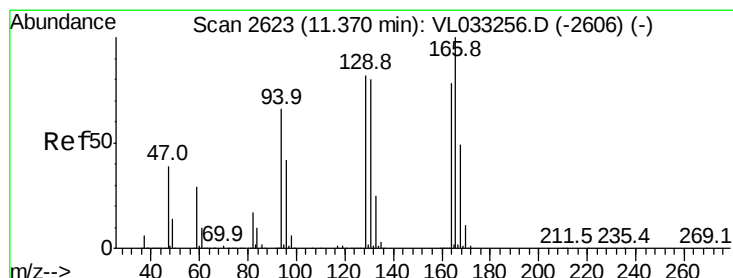
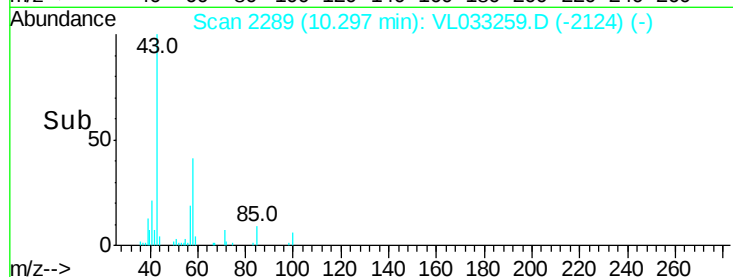
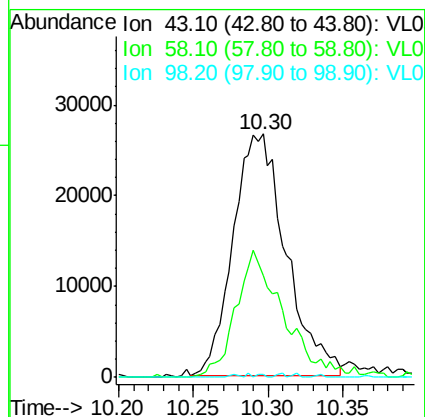
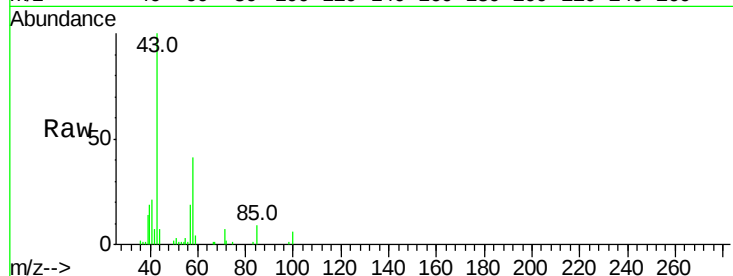




#51
2-Hexanone
Concen: 0.396 ppbv
RT: 10.30 min Scan# 2289
Delta R.T. 0.03 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

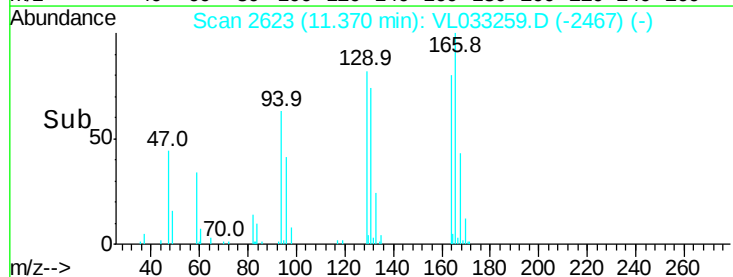
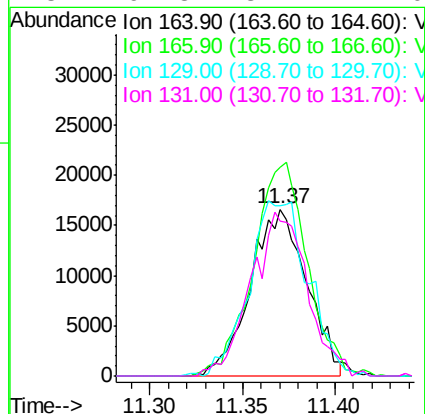
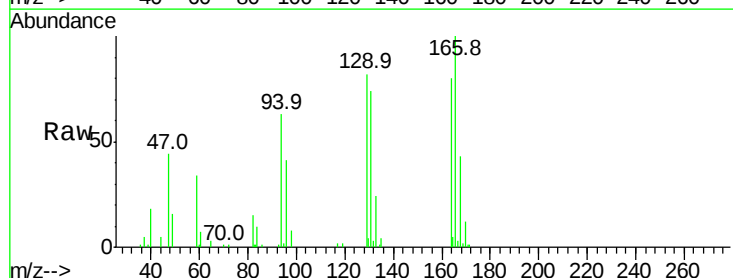
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

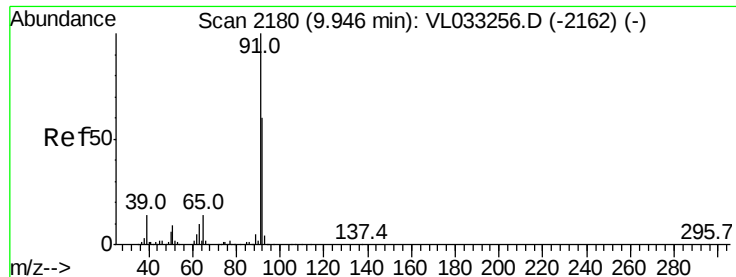
Tgt Ion: 43 Resp: 65646
Ion Ratio Lower Upper
43 100
58 48.1 38.1 57.1
98 0.8 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.467 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 164 Resp: 35265
Ion Ratio Lower Upper
164 100
166 125.4 102.0 153.0
129 101.0 83.2 124.8
131 92.8 81.4 122.0





#53

Toluene

Concen: 0.420 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

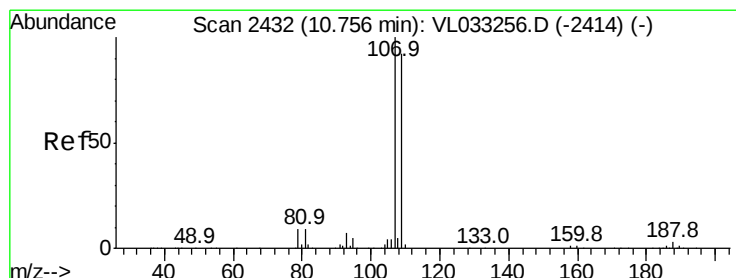
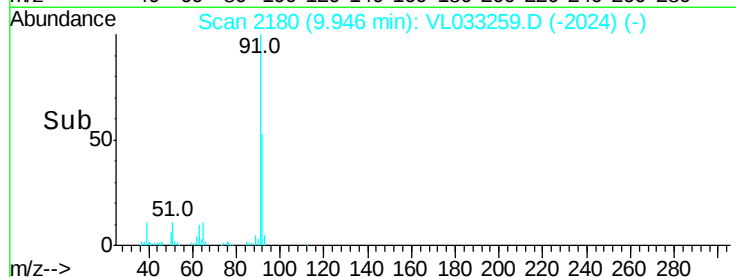
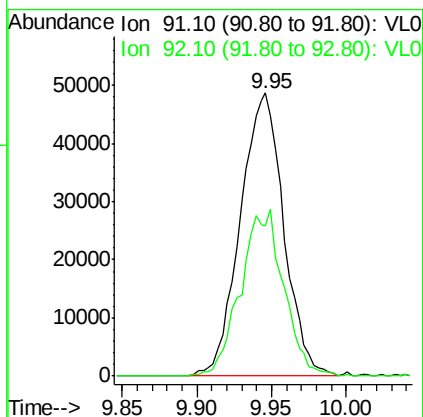
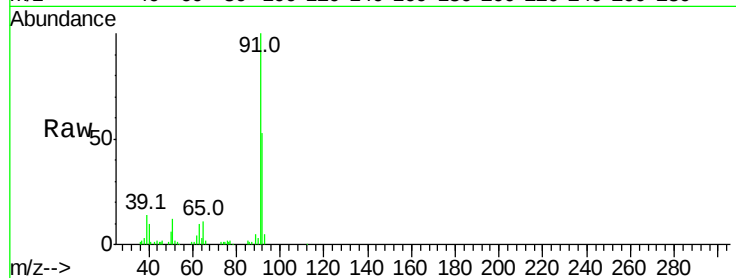
VSTDIC0.5

Tgt Ion: 91 Resp: 98355

Ion Ratio Lower Upper

91 100

92 58.0 47.7 71.5



#54

1,2-Dibromoethane

Concen: 0.450 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. 0.00 min

Lab File: VL033259.D

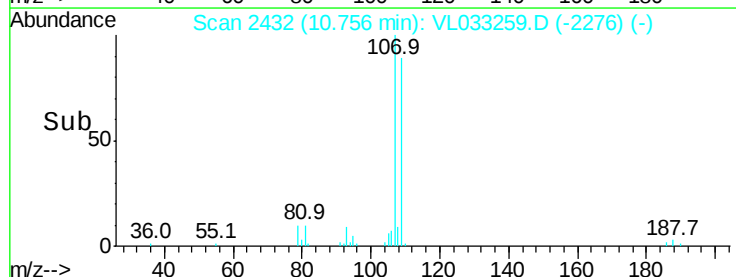
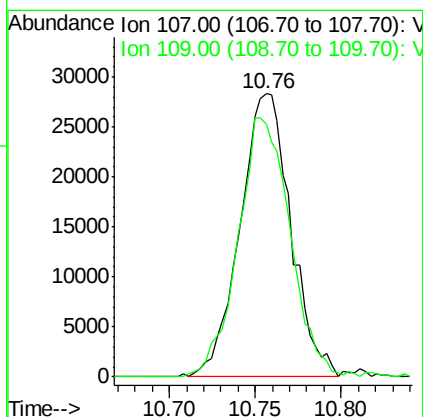
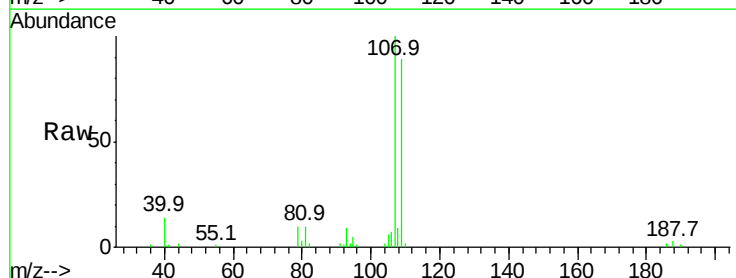
Acq: 8 Mar 2019 14:41

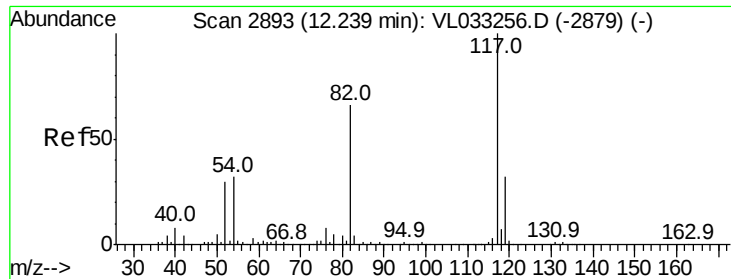
Tgt Ion: 107 Resp: 58284

Ion Ratio Lower Upper

107 100

109 88.1 73.9 110.9

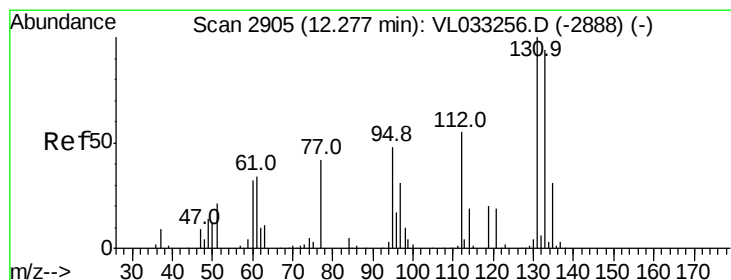
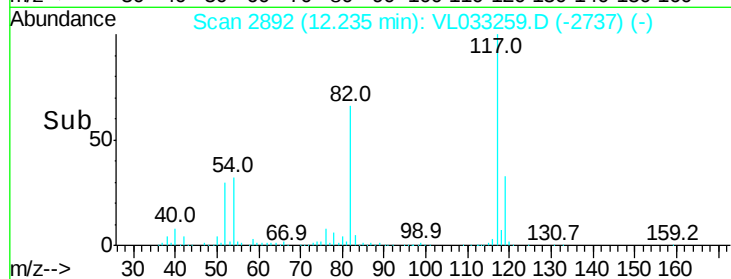
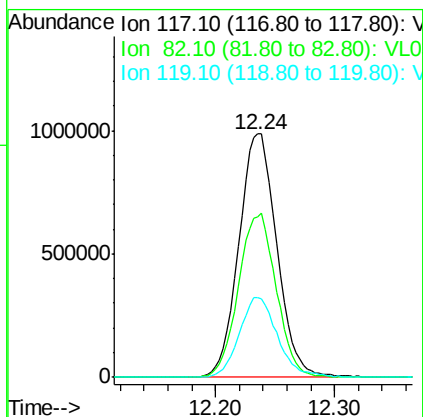
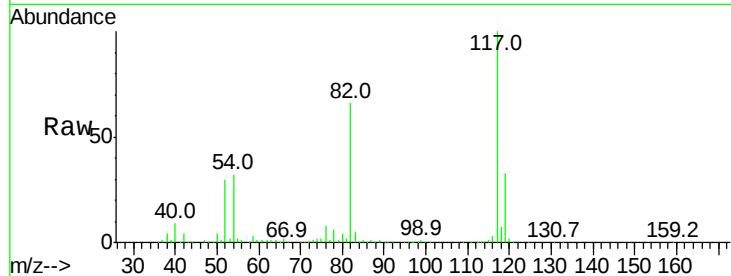




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

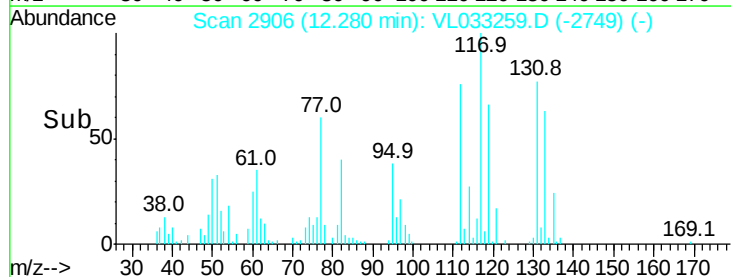
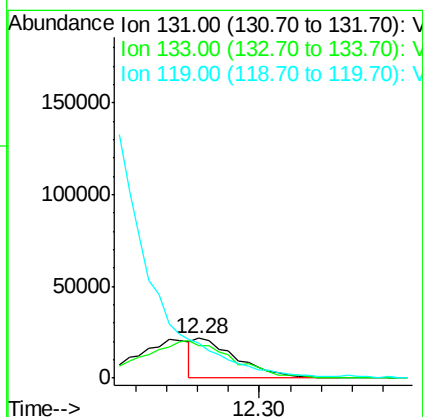
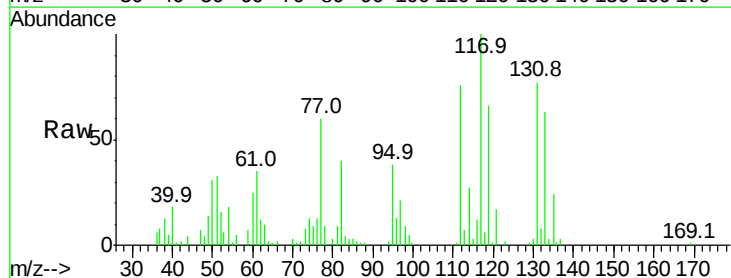
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

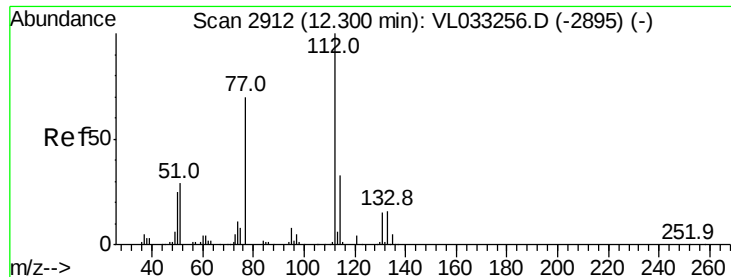
Tgt Ion:117 Resp: 2180802
Ion Ratio Lower Upper
117 100
82 67.2 52.2 78.4
119 33.2 43.4 65.2#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.220 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion:131 Resp: 20805
Ion Ratio Lower Upper
131 100
133 204.8 76.3 114.5#
119 0.0 109.2 163.8#





#57

Chlorobenzene

Concen: 0.310 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

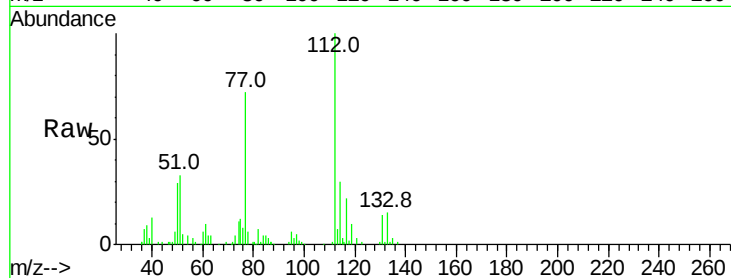
Tgt Ion: 112 Resp: 52720

Ion Ratio Lower Upper

112 100

77 77.5 56.8 85.2

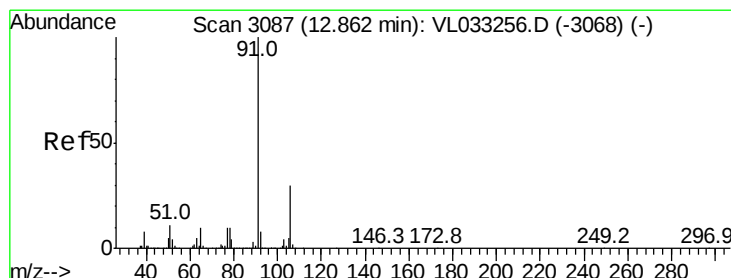
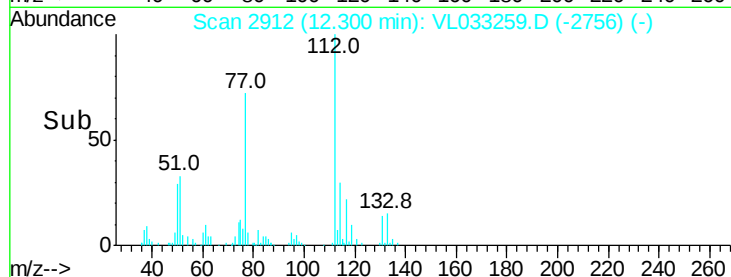
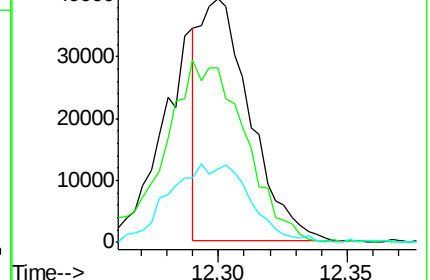
114 30.2 29.5 36.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.454 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VL033259.D

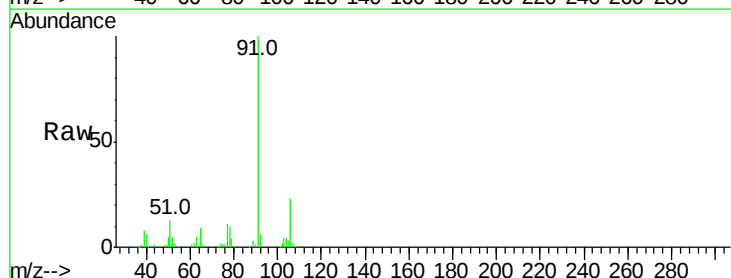
Acq: 8 Mar 2019 14:41

Tgt Ion: 91 Resp: 137070

Ion Ratio Lower Upper

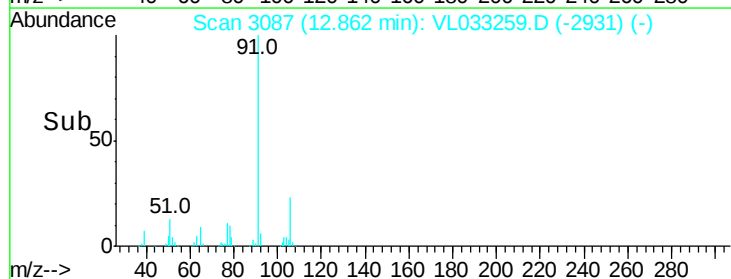
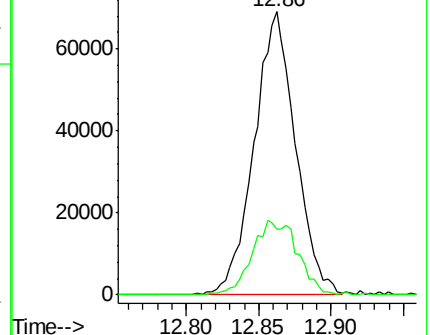
91 100

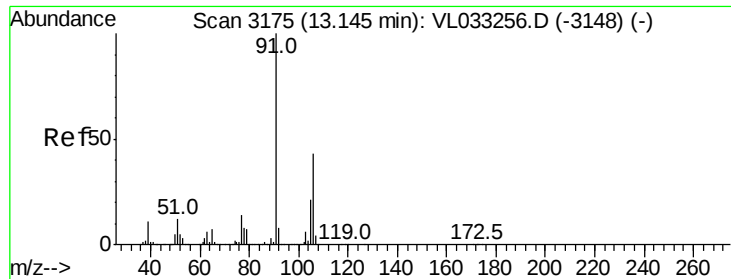
106 23.1 23.7 35.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

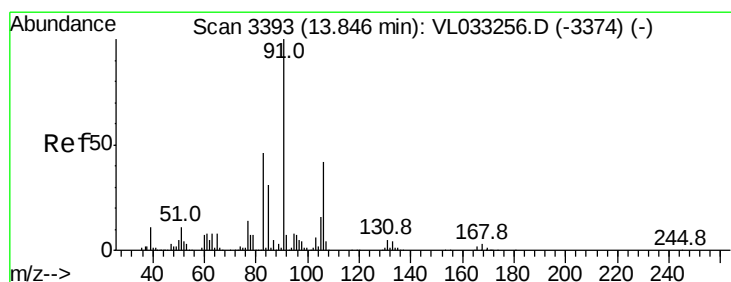
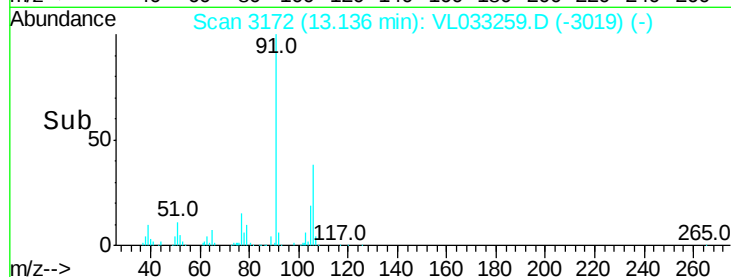
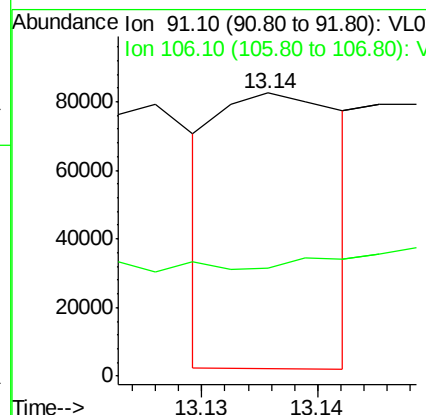
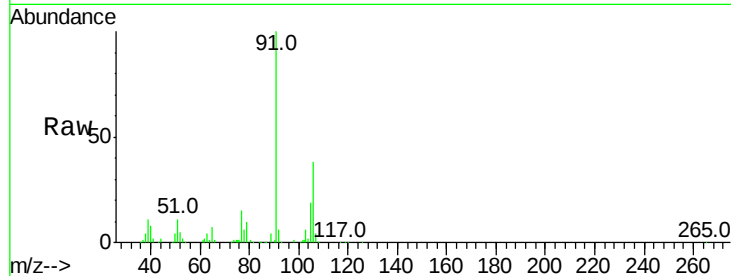




#59
m/p-Xylene
Concen: 0.232 ppbv
RT: 13.14 min Scan# 3172
Delta R.T. -0.01 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

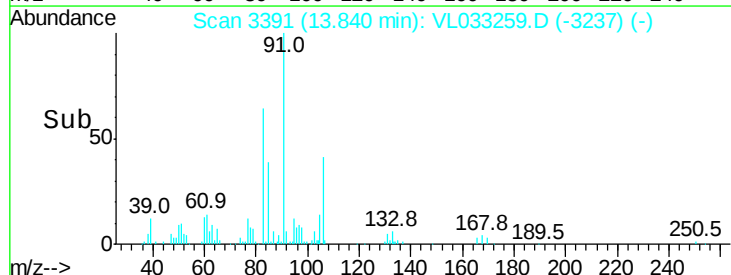
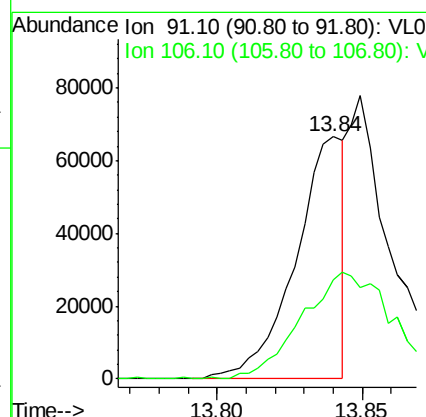
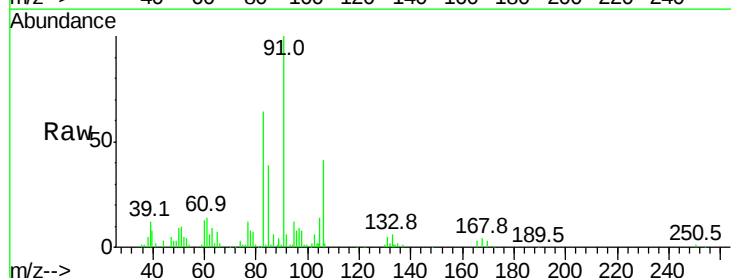
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

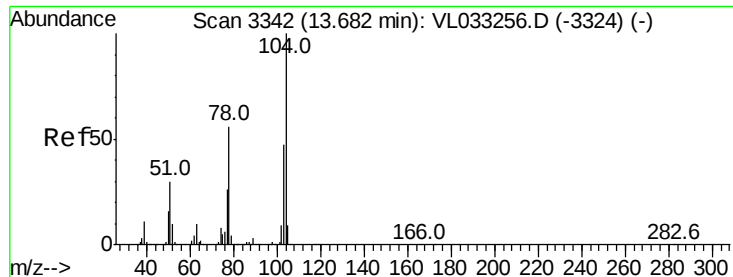
Tgt Ion: 91 Resp: 59678
Ion Ratio Lower Upper
91 100
106 0.0 35.0 52.4#



#60
o-Xylene
Concen: 0.316 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 91 Resp: 77567
Ion Ratio Lower Upper
91 100
106 83.8 21.1 63.4#





#61

Styrene

Concen: 0.548 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

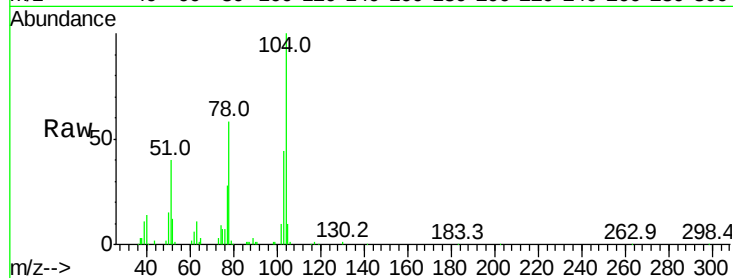
Tgt Ion:104 Resp: 94529

Ion Ratio Lower Upper

104 100

78 58.3 43.9 65.9

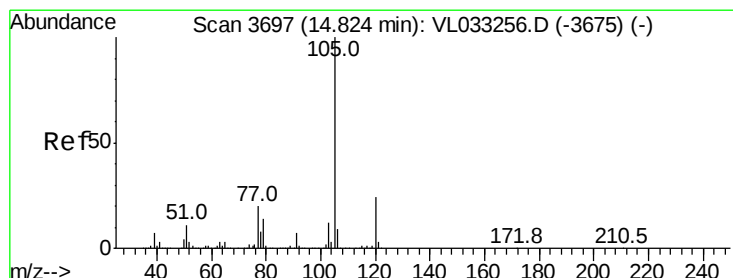
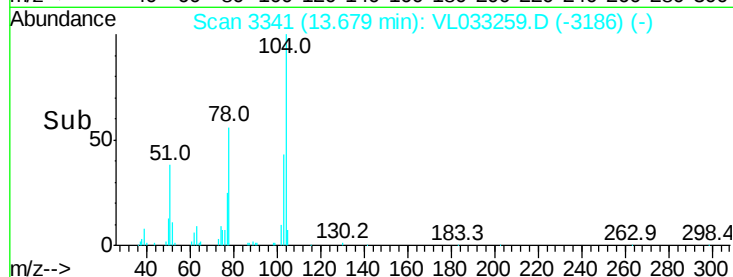
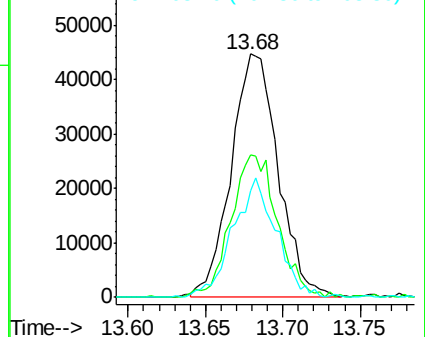
103 45.6 38.3 57.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.309 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033259.D

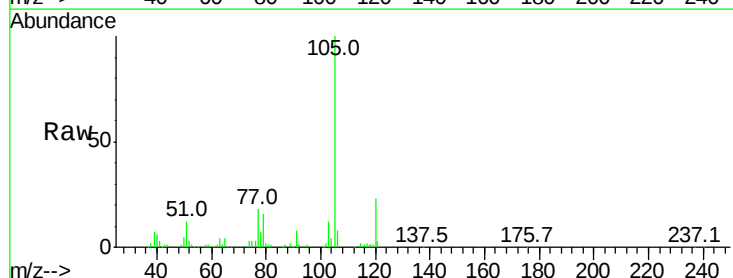
Acq: 8 Mar 2019 14:41

Tgt Ion:105 Resp: 105589

Ion Ratio Lower Upper

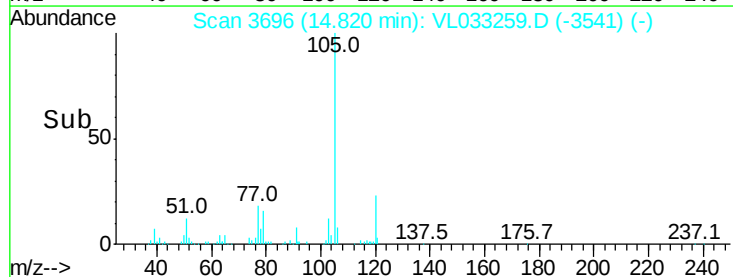
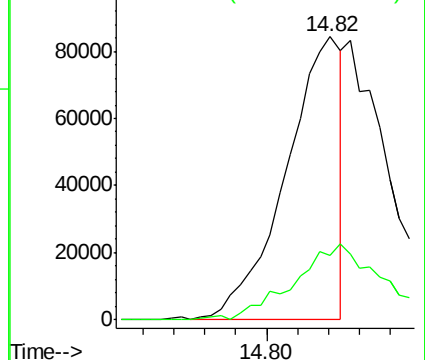
105 100

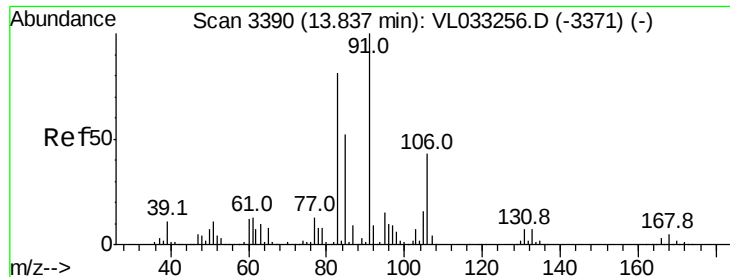
120 0.0 19.7 29.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.652 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

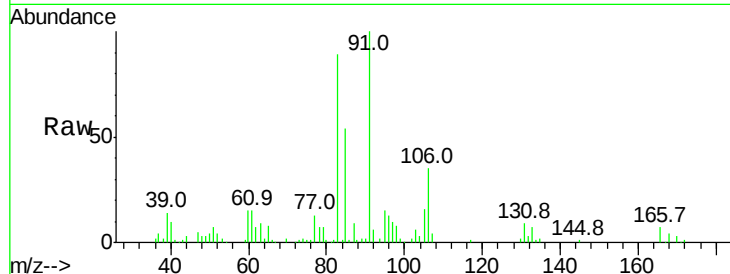
Tgt Ion: 83 Resp: 113685

Ion Ratio Lower Upper

83 100

131 10.0 4.7 14.0

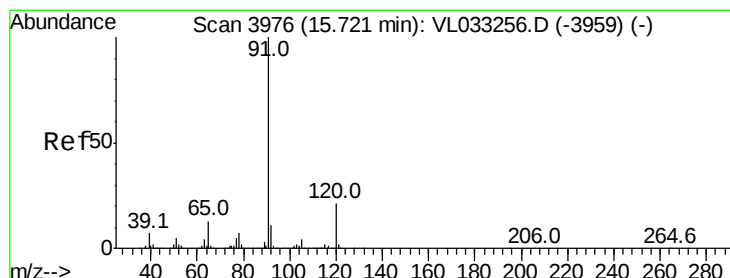
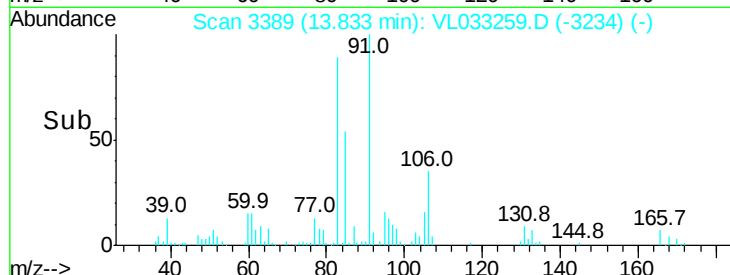
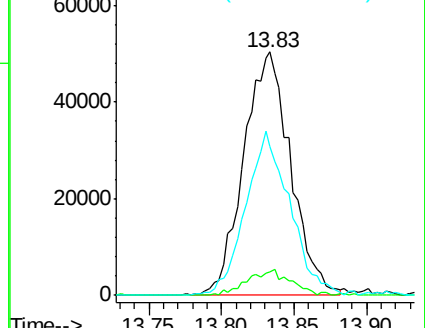
85 64.4 32.4 97.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.505 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. 0.00 min

Lab File: VL033259.D

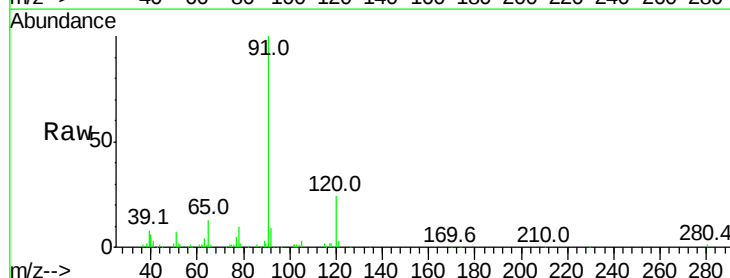
Acq: 8 Mar 2019 14:41

Tgt Ion: 120 Resp: 42770

Ion Ratio Lower Upper

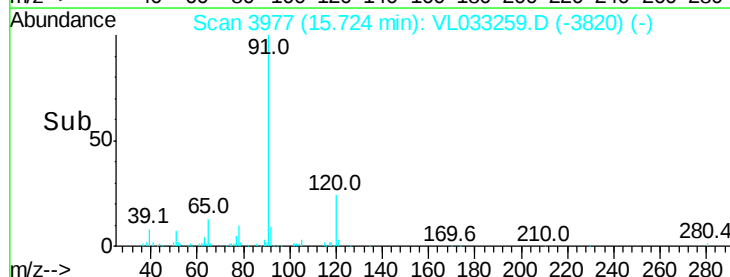
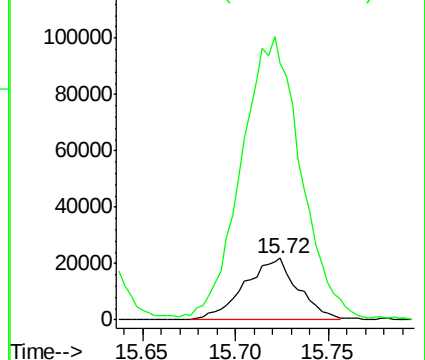
120 100

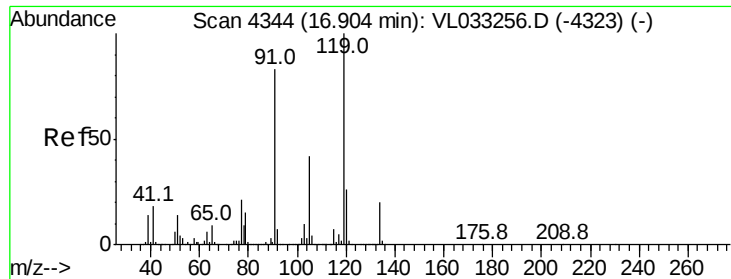
91 524.3 392.8 589.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.526 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

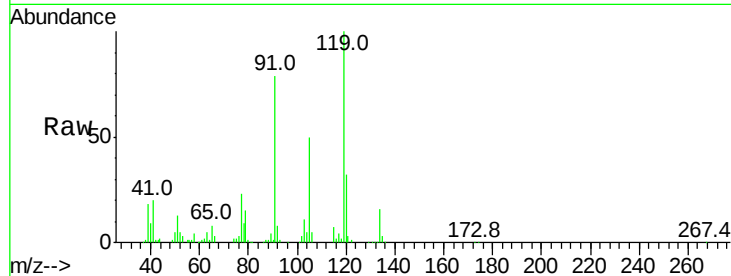
Tgt Ion: 119 Resp: 153338

Ion Ratio Lower Upper

119 100

91 88.7 67.3 100.9

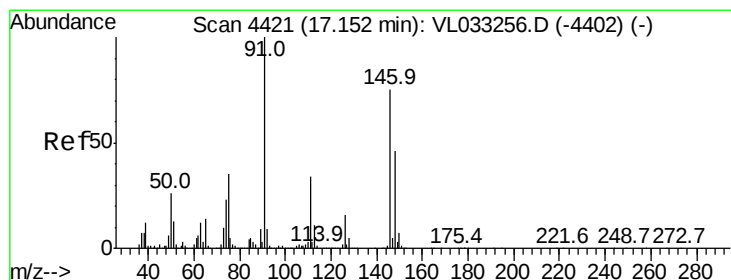
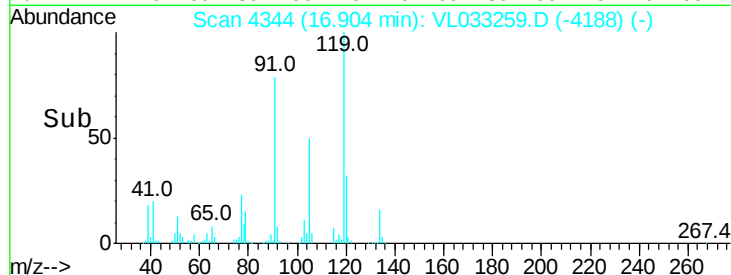
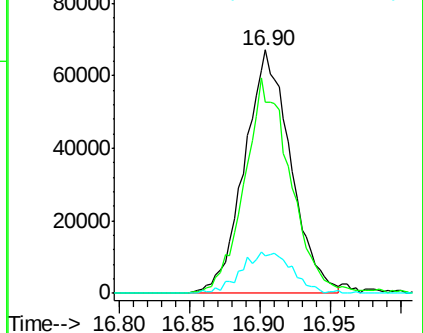
134 18.9 15.5 23.3



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.320 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

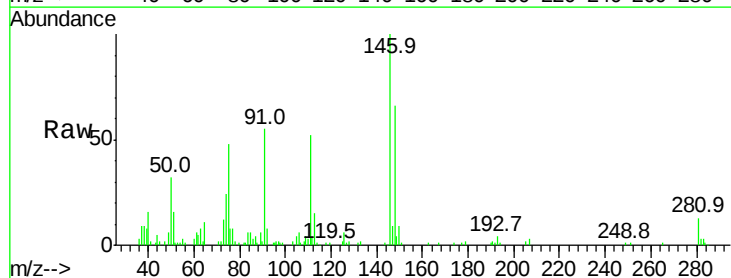
Tgt Ion: 91 Resp: 36090

Ion Ratio Lower Upper

91 100

126 17.7 13.0 19.6

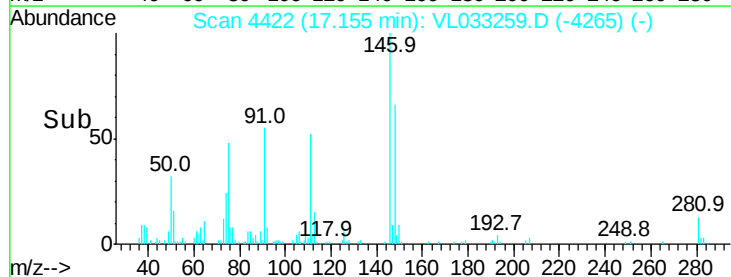
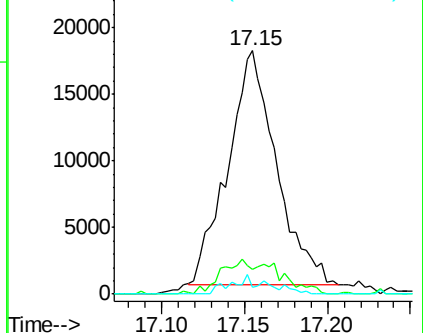
128 5.9 4.2 6.2

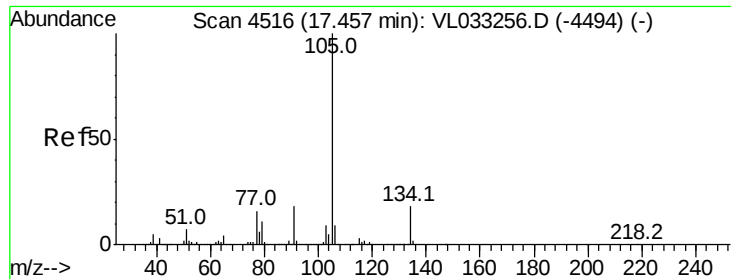


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

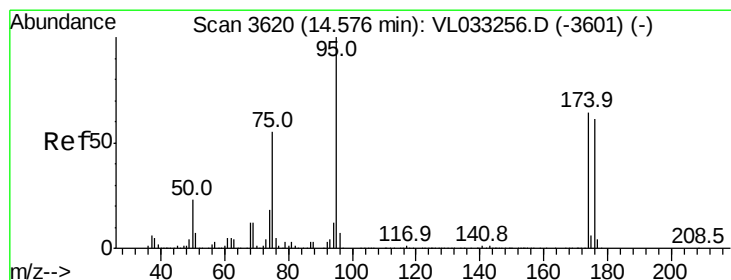
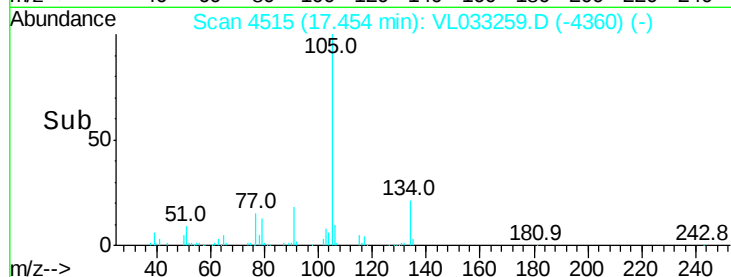
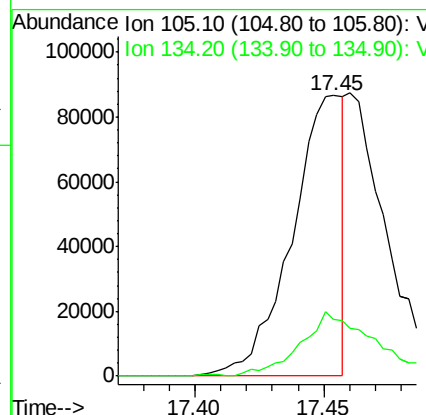
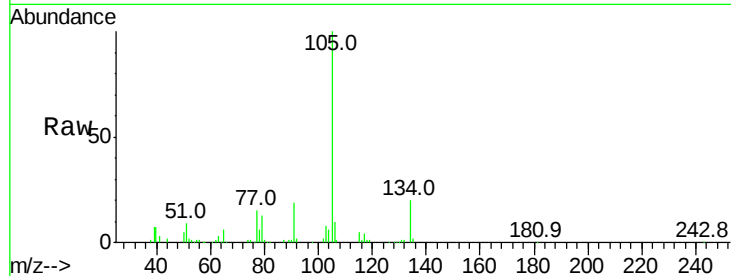




#67
 sec-Butylbenzene
 Concen: 0.288 ppbv
 RT: 17.45 min Scan# 4515
 Delta R.T. -0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

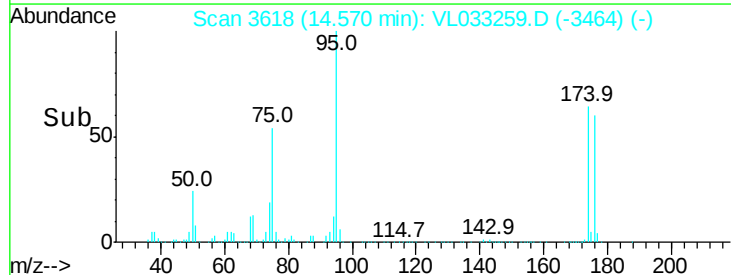
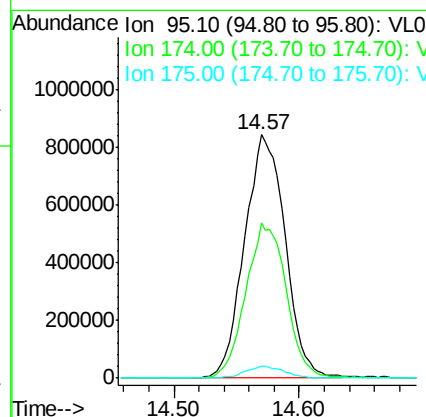
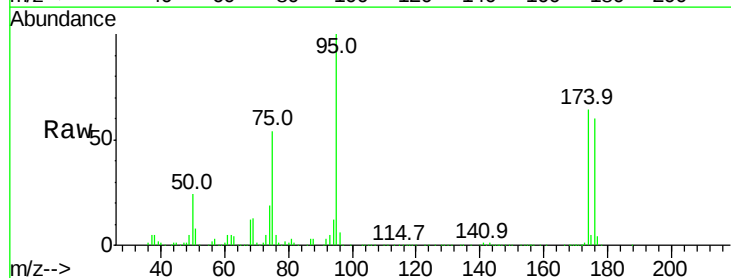
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

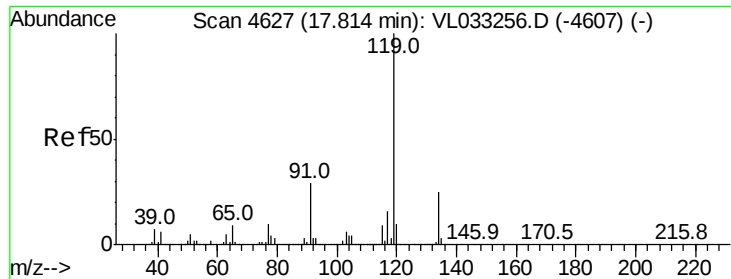
Tgt Ion: 105 Resp: 119844
 Ion Ratio Lower Upper
 105 100
 134 33.2 14.0 21.0#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.481 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion: 95 Resp: 1899831
 Ion Ratio Lower Upper
 95 100
 174 63.5 51.7 77.5
 175 4.7 3.8 5.8

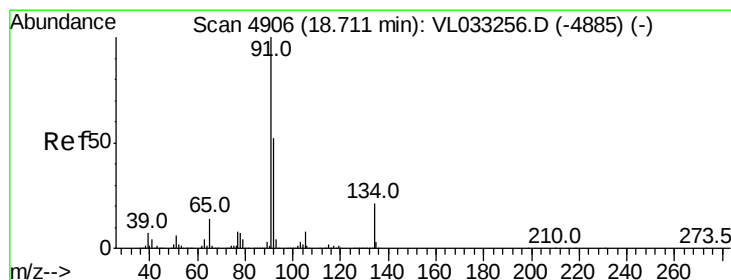
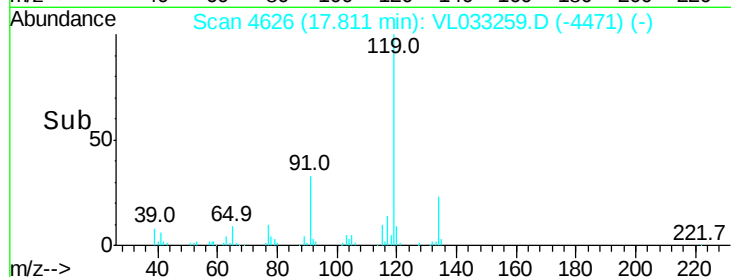
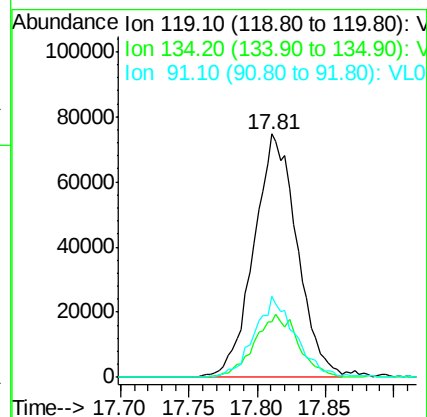
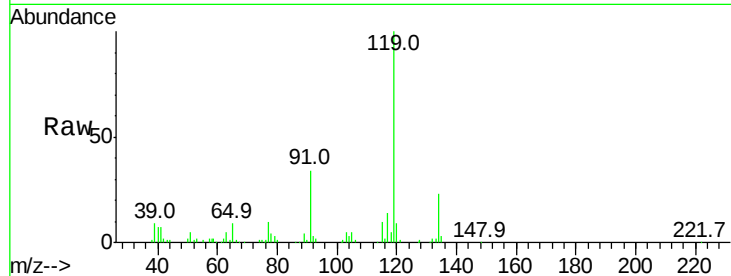




#69
p-Isopropyltoluene
Concen: 0.491 ppbv
RT: 17.81 min Scan# 4626
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

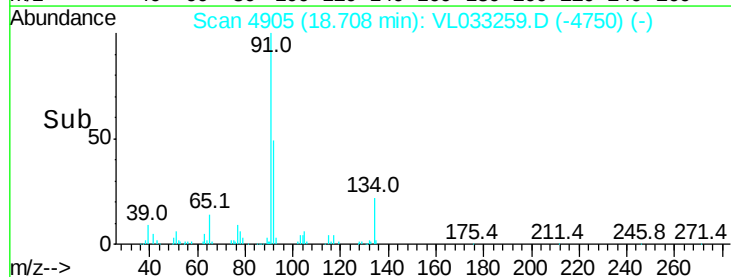
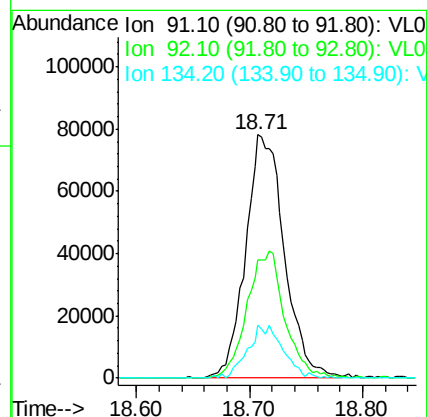
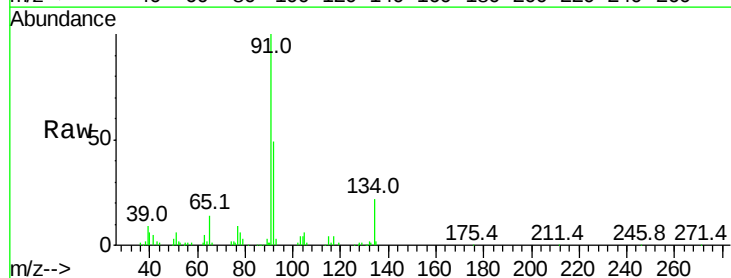
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

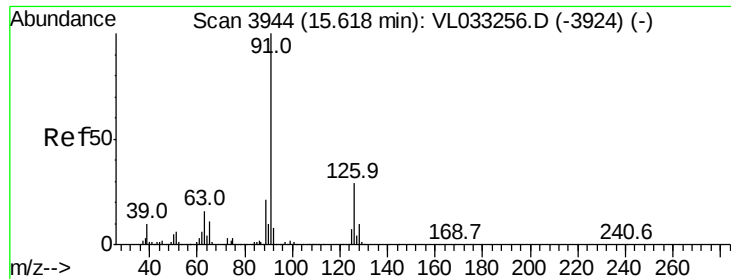
Tgt Ion: 119 Resp: 164972
Ion Ratio Lower Upper
119 100
134 26.2 19.8 29.8
91 31.8 23.9 35.9



#70
n-Butylbenzene
Concen: 0.505 ppbv
RT: 18.71 min Scan# 4905
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 91 Resp: 186034
Ion Ratio Lower Upper
91 100
92 51.0 42.6 63.8
134 19.8 17.3 25.9

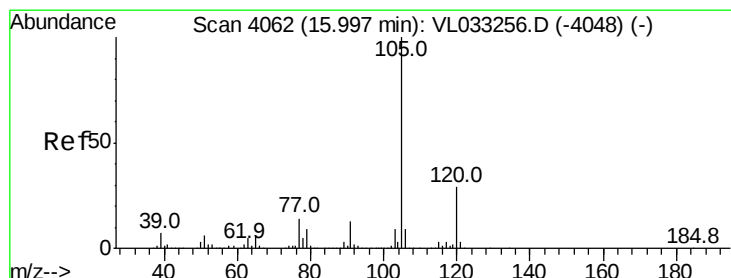
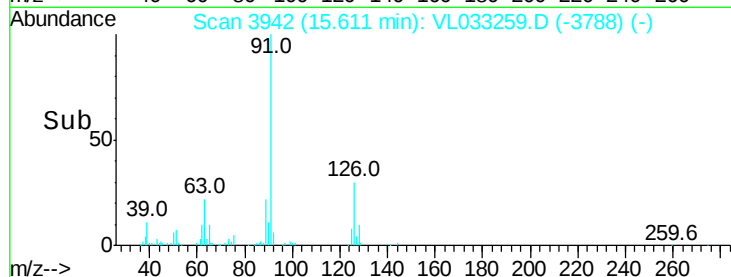
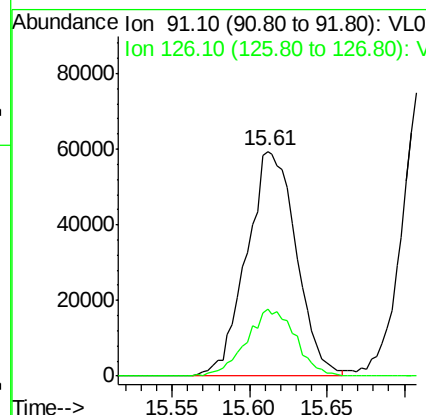
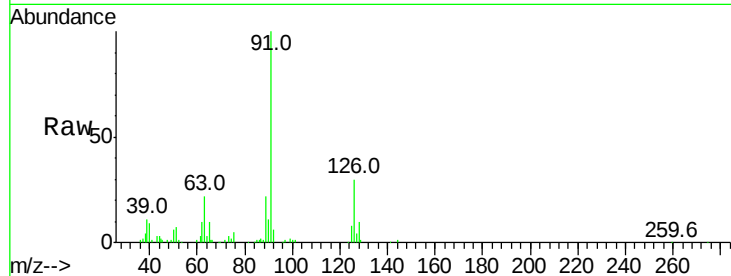




#71
 2-Chlorotoluene
 Concen: 0.508 ppbv
 RT: 15.61 min Scan# 3942
 Delta R.T. -0.01 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

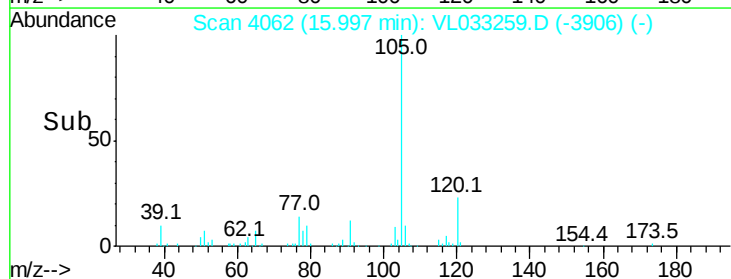
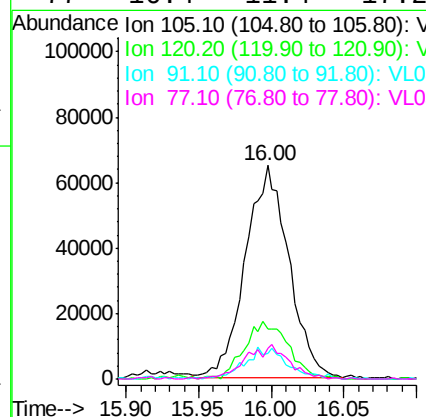
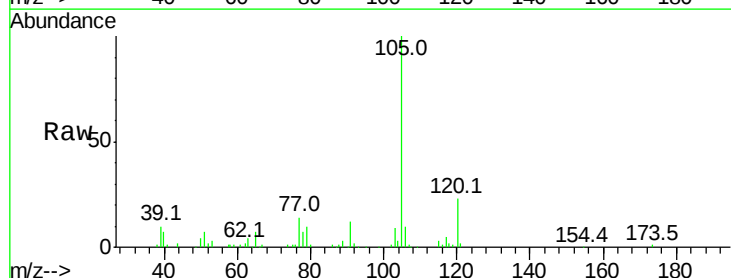
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

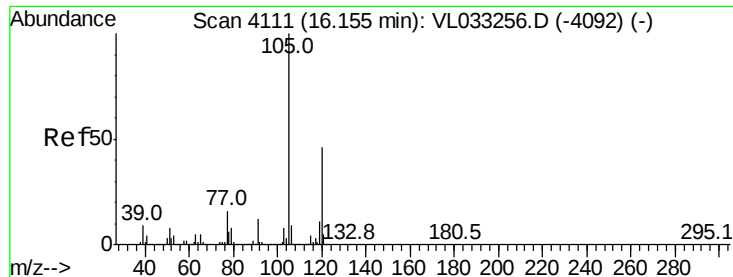
Tgt Ion: 91 Resp: 132644
 Ion Ratio Lower Upper
 91 100
 126 29.4 11.7 46.9



#72
 4-Ethyltoluene
 Concen: 0.500 ppbv
 RT: 16.00 min Scan# 4062
 Delta R.T. 0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion: 105 Resp: 134011
 Ion Ratio Lower Upper
 105 100
 120 27.7 22.9 34.3
 91 14.8 10.4 15.6
 77 16.4 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 0.511 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

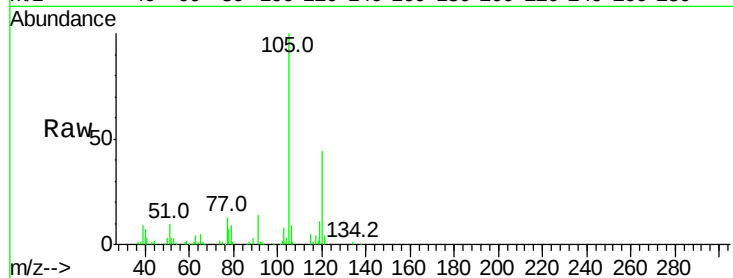
VSTDIC0.5

Tgt Ion:105 Resp: 131317

Ion Ratio Lower Upper

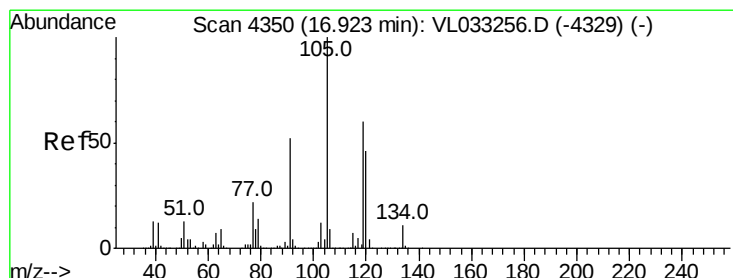
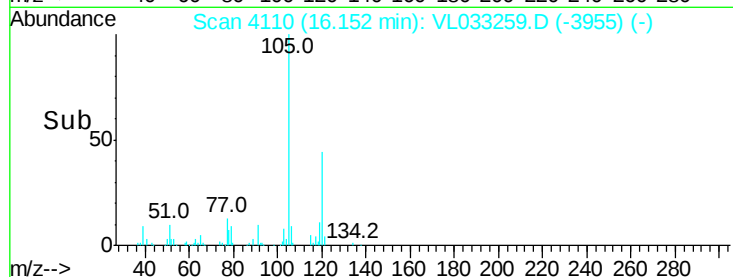
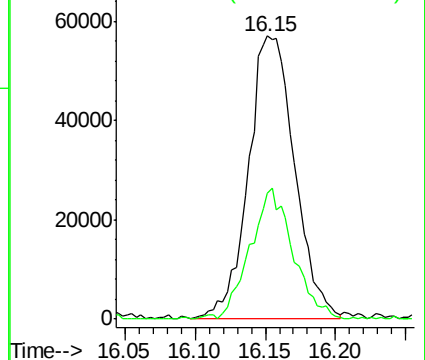
105 100

120 44.3 36.6 55.0



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: 0.522 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:105 Resp: 140934

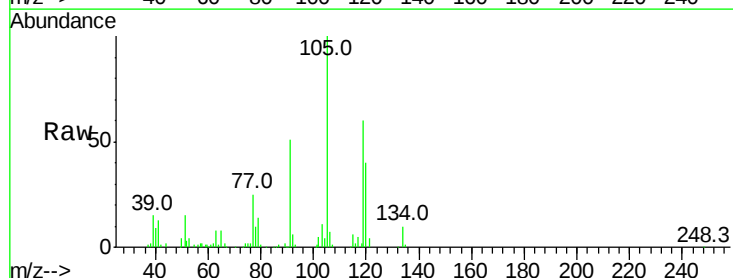
Ion Ratio Lower Upper

105 100

120 38.9 36.7 55.1

91 49.9 42.1 63.1

77 24.3 17.8 26.6

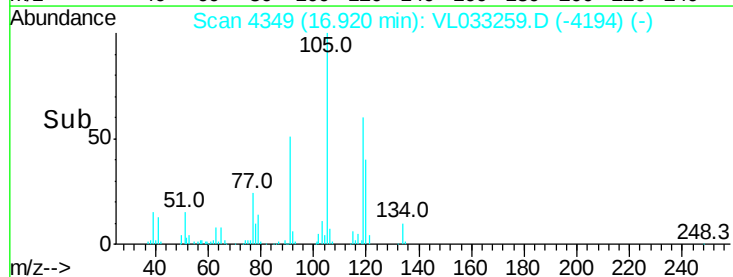
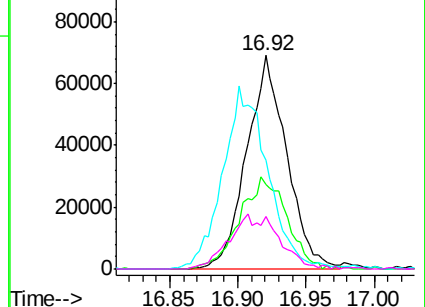


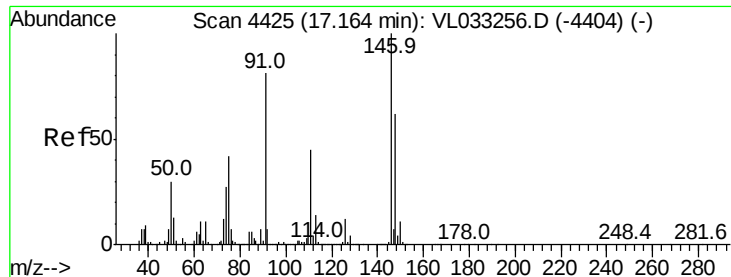
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 0.541 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

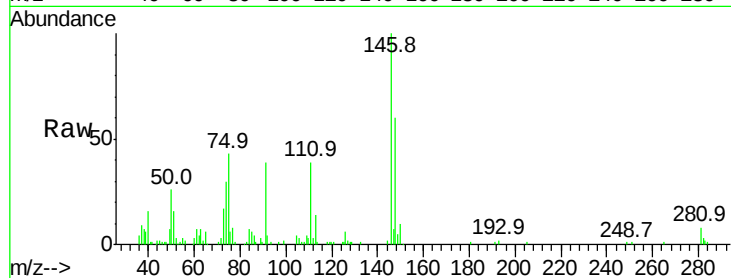
Tgt Ion:146 Resp: 85583

Ion Ratio Lower Upper

146 100

111 50.7 22.9 68.7

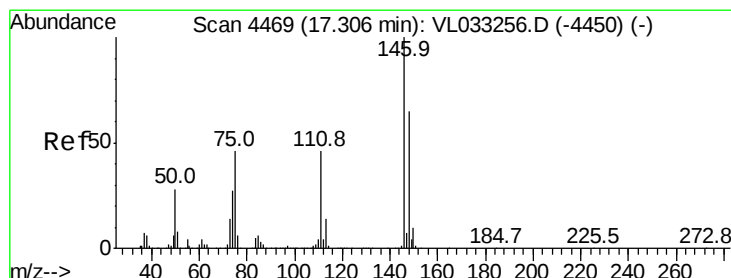
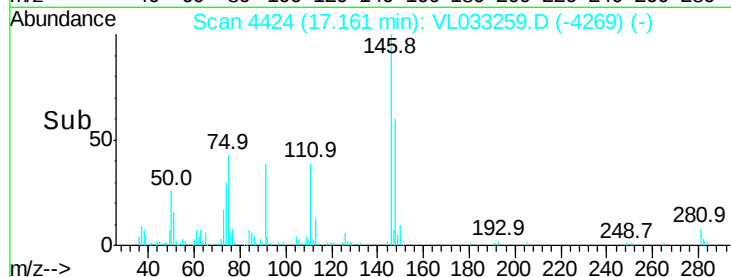
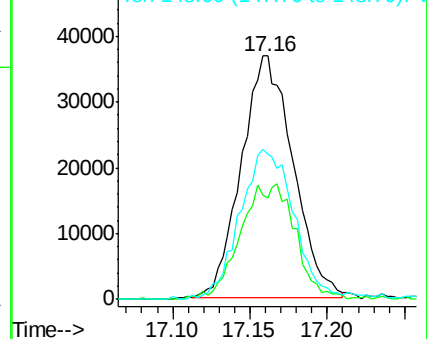
148 65.7 31.6 94.7



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



#76

1,4-Dichlorobenzene

Concen: 0.456 ppbv

RT: 17.30 min Scan# 4467

Delta R.T. -0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

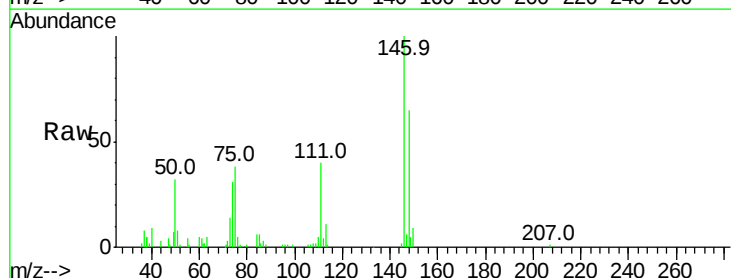
Tgt Ion:146 Resp: 71459

Ion Ratio Lower Upper

146 100

111 51.3 22.6 67.7

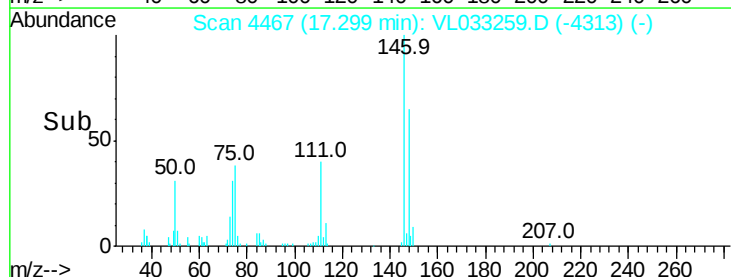
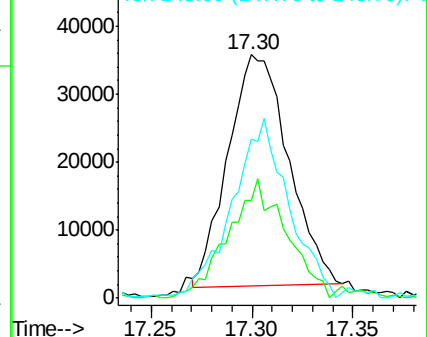
148 73.9 32.3 96.9

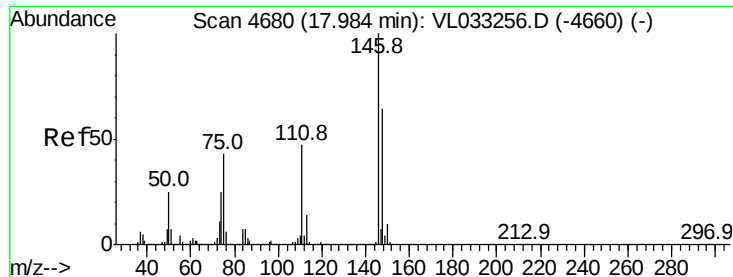


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.515 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

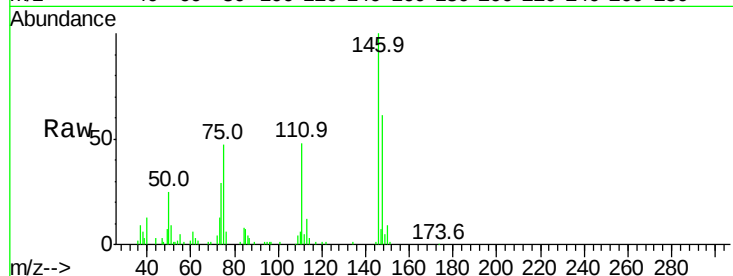
Tgt Ion:146 Resp: 78976

Ion Ratio Lower Upper

146 100

111 52.4 23.8 71.2

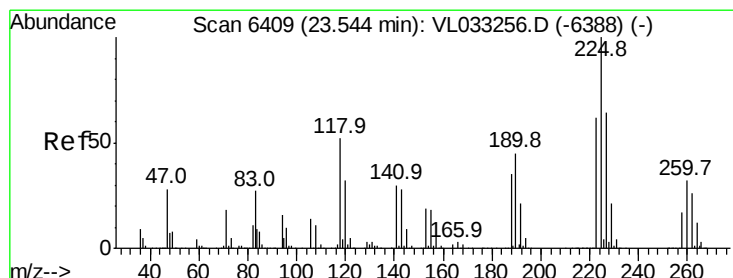
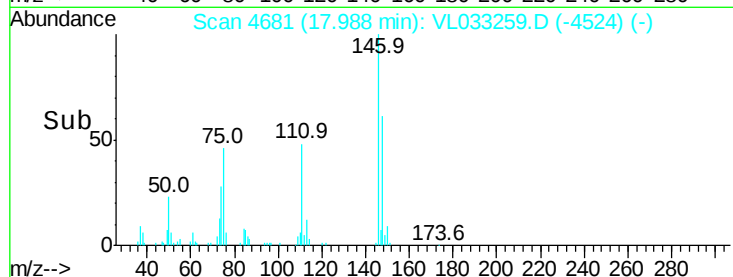
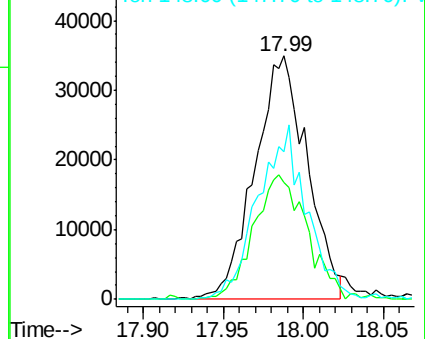
148 67.2 32.0 96.2



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



#78

Hexachloro-1,3-Butadiene

Concen: 0.592 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

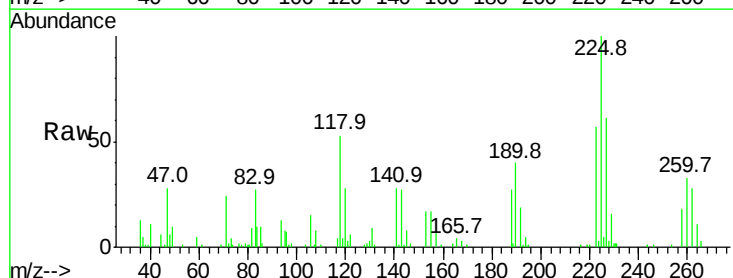
Tgt Ion:225 Resp: 64276

Ion Ratio Lower Upper

225 100

223 61.3 50.4 75.6

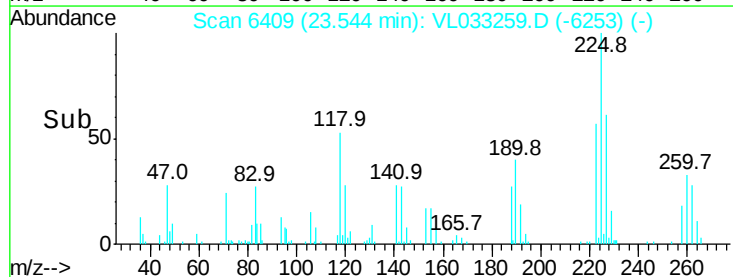
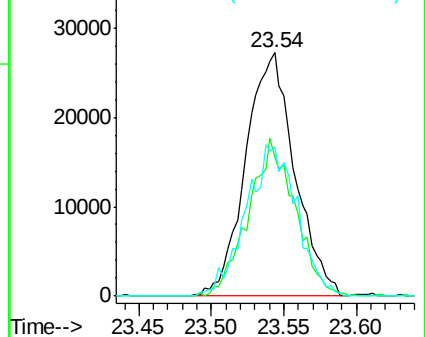
227 64.1 51.4 77.0

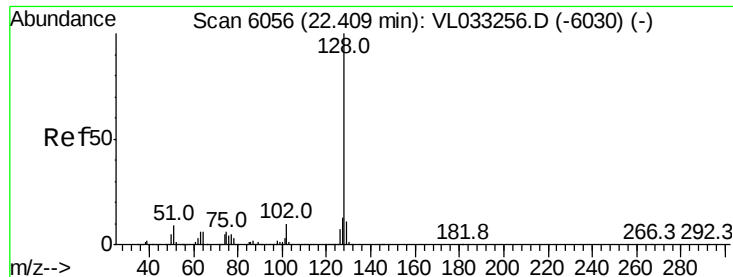


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.324 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

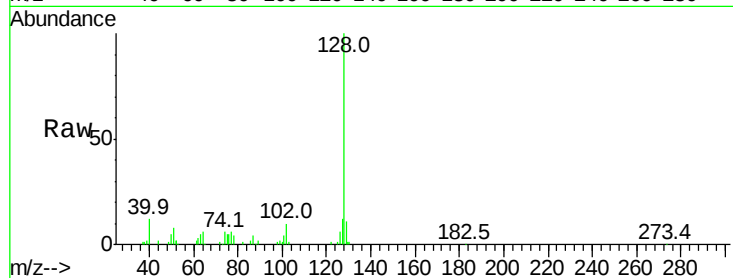
Tgt Ion:128 Resp: 107080

Ion Ratio Lower Upper

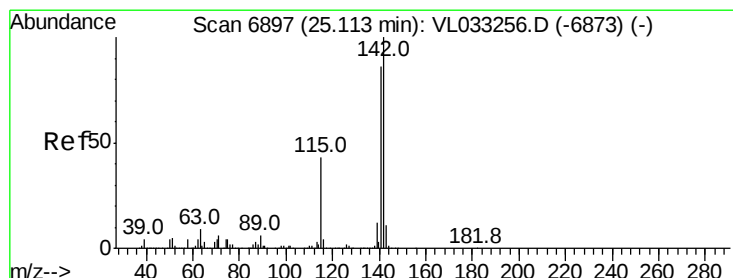
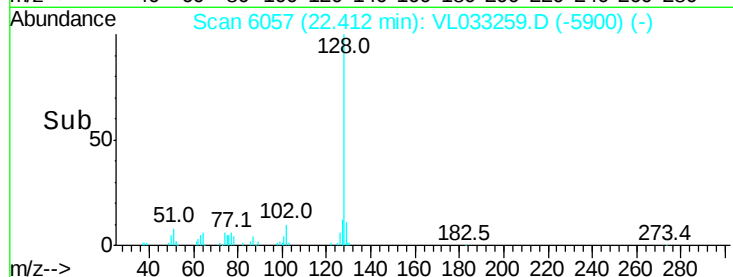
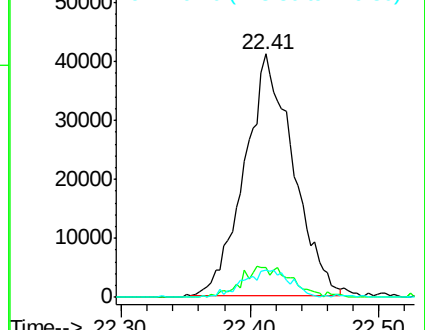
128 100

127 11.8 10.3 15.5

129 12.3 8.6 13.0



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.096 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

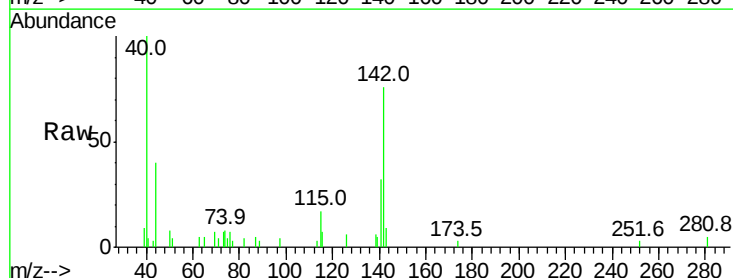
Tgt Ion:142 Resp: 9454

Ion Ratio Lower Upper

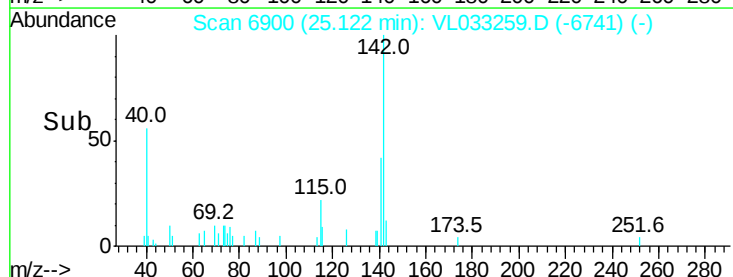
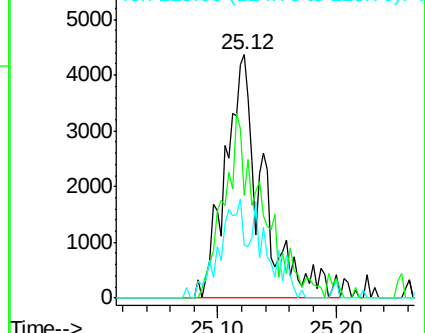
142 100

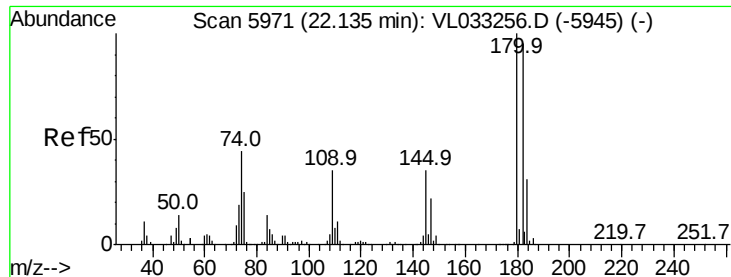
141 80.7 67.6 101.4

115 45.8 33.9 50.9



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





#81
 1,2,4-Trichlorobenzene
 Concen: 0.357 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:180 Resp: 59251
 Ion Ratio Lower Upper
 180 100
 182 112.0 76.3 114.5
 184 36.7 24.6 36.8

